

NOTE FROM THE EDITOR

NOTE FROM THE EDITOR

Dear Friends, Colleagues and Otter Enthusiasts!

I am very thankful to Victor Camp who provides us with a revision of his bibliography on *Enhydra lutris*. Thank you so much for efforts Victor!

I hope that this compilation is useful in the daily work for many of you! Together with issues 39A (*Lontra canadensis*), 39B (*Lontra longicaudis*) and 38C (*Lutra lutra*), and 32A (*Pteronura brasiliensis*) we now have five extensive lists of references online. Please keep in mind that if you start to use the issues a proper reference should be given to show our appreciation to the amount of work that Victor (39 A - D) and Jessica Groenendijk and Nicole Duplaix (32A) have put into these.



If anybody feels like doing this for another species, I can assure publication as a special issue. Please contact me and Lesley before you start working in order to be sure that no duplication of work occurs.

With regards

A handwritten signature in black ink, appearing to read "Lesley". It is written in a cursive, flowing style with a prominent vertical stroke on the left side.

BIBLIOGRAPHY

A BIBLIOGRAPHY ON THE SEA OTTER

Enhydra lutris

Victor L. Camp

The Water School

Department of Ecology & Environmental Studies

Florida Gulf Coast University, Ft. Myers, FL USA

e-mails: vcamp@fgcu.edu or victorcamp300@gmail.com



Originally published December 2020 as IUCN OSG Bull 37(C), 2020 (First Edition)

Revised August 2021 as IUCN OSG Bull 38(C), 2021 (Second Edition)

Citation: Camp, V.L. (2022). A Bibliography on the Sea Otter *Enhydra lutris*. *IUCN Otter Spec. Group Bull.* **38** (D): 3 - 39

INTRODUCTION

Compilation of this bibliography is intended to be a contributing resource in support of the “[North American Otter Chronicles](#)”. The Chronicles provide information on current and ongoing conservation and research initiatives on the three species of otters inhabiting North America. These three species are the sea otter (*Enhydra lutris*), North American river otter (*Lontra canadensis*), and the neotropical otter (*Lontra longicaudis*). Like the bibliographies compiled by this author on the North American river otter and the neotropical otter this bibliography was also compiled for (1) those undergraduates and graduates students searching for publications relative to a potential research project on the sea otter (*Enhydra lutris*), (2) independent scientists, with an interest in the sea otters, who do not have access to a library at a major university, and (3) those scientists planning to expand their scientific investigations on the sea otter.

The citations for this bibliography were acquired from many sources. These sources include key word internet searches plus the year of interest, e.g., “*Enhydra lutris 2010*” or “*Enhydra lutris 2020*”. Many citations were located in the literature cited/reference sections of publications on the sea otter. The [seaotters.org](#) website provided numerous citations from 2001 onward. Another valuable resource was the IUCN Otter Specialist Group Bulletin (*IUCN OSG Bull*) publications from 1986-2021. I personally feel each citation does not need to be accompanied by a “link”. Just copy and paste the title on your browser.

A Bibliography on the Sea Otter (*Enhydra lutris*)
2nd Edition
Compiled by Victor L. Camp
(as of 13 Nov 2022)

JOURNAL ARTICLES

A

- Allen, M.L. and S.M. Crimmins, SM (2019).** Sea Otters (*Enhydra lutris*) from the Northern and Southern Populations may find each other in Humboldt County, California. *IUCN Otter Specialist Group Bulletin*, **36** (2):88-92
https://www.iucnosgbull.org/Volume36/Allen_Crimmins_2019.html
- Aguilar, A., D.A. Jessup, J. Estes, and J.C. Garza. (2008).** The distribution of nuclear generation variation and historical demography of sea otters. *The Zoological Society of London*, **11**(2008): 35-45.
- Allen, M.L. and S.M. Crimmins, SM (2019).** Sea Otters (*Enhydra lutris*) from the Northern and Southern Populations may find each other in Humboldt County, California. *IUCN Otter Specialist Group Bulletin*, **36** (2):88-92
https://www.iucnosgbull.org/Volume36/Allen_Crimmins_2019.html
- Ames , J.A., J. J. Geibel, F. E. Wendell, and C. A. Pattison.(1996).** White shark inflicted wounds of sea otters in California 1968-1992. pp 309-316. In: **A. P. Klimley, A.P. and D.G. Ainley (eds).** Great White Sharks, San Diego: Academic Press.
- Ames, J.A. (1990).** Impetus for capturing, cleaning, and rehabilitating oiled or potentially oiled sea otters after the T/V Exxon Valdez oil spill. pp 137-141. In: **Bayha, K. and J. Kormendy (eds.).** Sea otter symposium: Proceedings of a symposium to evaluate the response effort on behalf of sea otters after the T/V Exxon Valdez oil spill into Prince William Sound, Anchorage, Alaska. *U.S. Fish and Wildlife Service, Biological Report*, **90**(12). 126 pp.
- Ames, J.A., R.A. Hardy, and F.E. Wendell. (1986a).** A simulated translocation of sea otters (*Enhydra lutris*) with review of capture, transport, and holding techniques. Marine Resources Technical Report, *California Department of Fish and Game*, Sacramento, California. 17 pp
- Ames, J.A. R.A. Hardy, and F.E. Wendell. (1986b).** Tagging materials and methods for sea otters (*Enhydra lutris*). *California Fish and Game*, **69**: 243-252.
- Ames, J.A., R.A. Hardy, and F.E. Wendell. (1983).** Tagging materials and methods for sea otters.
- Ames, J.A., R.A. Hardy, F.E. Wendell, and J.J. Geibel. (1983).** Sea otter mortality in California. Report of the Marine Resources Division, California Department of Fish and Game, Monterey, California. 49 pp.
- Ames, J.A. and G.V. Morejohn. (1980).** Evidence of white shark (*Carcharodon carcharias*) attacks on sea otters (*Enhydra lutris*). *California Fish and Game*, **66**(4): 196-209.
- Anderson, C.G., J.L. Gittleman, K-P. Koepfi, and R.K. Wayne. (1996).** Biology and status of the southern sea otter: Sea otter systematics and conservation: Which are critical subspecies? *Endangered Species UPDATE Special Issue*. **13**(12): 6-10.
- Anonymous. (2003).** Suspected cat link to sea otter disease. *Marine Pollution Bulletin*, **46**: 272-272.
- Antonelis Jr., G.A, S. Leatherwood, L.H. Cornell, and J.G. Antrim. (1981).** Activity cycle and food selection of captive sea otters. *The Murrelet*, **62**: 6-9.
- Anthony, R. G., J.A. Estes, M.A. Ricca, A.K. Miles, and E.D. Forsman. (2008).** Bald eagles and sea otters in the Aleutian archipelago: Indirect effects of trophic cascades. *Ecology*, **89**(10): 2725-2735.
- Antrim, J.E. and L.H. Cornell. (1980).** Reproduction of the sea otter (*Enhydra lutris*) in captivity. *International Zoo Yearbook*, **20**: 76-80.

- Antwiler, M.L. (2021).** An analysis of behavior in captive southern sea otters (*Enhydra lutris nereis*). An Undergraduate Research Scholars Thesis. *Texas A&M University*. College Station, Texas.
- Armwood, A.R., C.E. Anderson, T. Clauss, and A.C. Camus. (2020).** Primary intracranial fibrosarcoma in a southern sea otter (*Enhydra lutris nereis*). *Diseases of Aquatic Organisms*, **138**: 207-213.
- Arzi, B., J.N. Winer, P.H. Kass, and F.J. Verstraete. (2013).** Osteoarthritis of the temporomandibular joint in southern sea otters (*Enhydra lutris nereis*). *Journal of Comparative Pathology*, **149**(4): 486-494.

B

- Bacon, C.E., W.M. Jarman, J.A. Estes, M. Simon, and R.J. Norstrom. (1999).** Comparison of organochlorine contaminants among sea otter (*Enhydra lutris*) populations in California and Alaska. *Environmental Toxicology and Chemistry*, **18**: 452-458.
- Bacon, C.E. (1994).** An ecotoxicological comparison of organic contaminants in sea otters among populations in California and Alaska. M.S. Thesis, *University of California*. Santa Cruz.
- Ballachey, B.E., D.H. Monson, K.A. Kloecker, G.G. Esslinger, F.C. Mohr, T.P. Lipscomb, M.J. Murray, and S. Howlin. (2014).** Synthesis of nearshore recovery following the 1989 Exxon Valdez oil spill: Sea otter liver pathology and survival in western Prince William Sound, 2001–2008. Exxon Valdez Oil Spill Restoration Project Final Report (Restoration Projects 070808 and 070808a). *U.S. Geological Survey*, Alaska Science Center, Anchorage, Alaska. February 2014.
- Ballachey, B. (2013).** Update on sea otter studies to assess recovery from the 1989 Exxon Valdez oil spill., Prince William Sound, Alaska. *US Geological Survey*, Open-File Report 2014-1030.
- Ballachey, B.E., J.L. Bodkin, S. Howlin, A.M. Doroff, and A.H. Rebar. (2003).** Correlates to survival of juvenile sea otters in Prince William Sound, Alaska, 1992-1993. *Canadian Journal of Zoology*, **81**(9): 1494-1510.
- Ballachey, B.E. (1995).** Biomarkers of damage to sea otters in Prince William Sound, Alaska, following potential exposure to oil spilled from the Exxon Valdez. *Exxon Valdez Oil Spill State/Federal Natural Damage Assessment Final Report (Marine Mammal Study 6-1)*. U.S. Fish and Wildlife Service, Anchorage, Alaska. 20 pp.
- Ballachey, B.E., J.L. Bodkin, and A.R. DeGange. (1994).** An overview of sea otter studies. pp 47-59. In: **Loughlin, T.R. (ed.)**. *Marine Mammals and the Exxon Valdez*. Academic Press. San Diego, California. 395 pp.
- Barabash-Nikifmv, I.I. (1947).** Kalan. Pages 1-174 in Soviet Minzstroz RSFSR Glavnoe upravlenie po zapovednikam.[The sea otter. Translated from Russian by A Birron and Z.S. Cole for the National Science Foundation by the Israel Program for Scientific Translation, Jeruselem, Israel. 1962.227 pp.]
- Barnewitz, M. (2021).** Sea otter resource depression? Analysis of *Enhydra lutris* remains from Yerba Buena Shellmound, San Francisco, California. Utah Conference on Undergraduate Research. University of Utah.
- Barrett, E.H. (2019).** The energetic cost of human disturbance on the southern sea otter (*Enhydra lutris nereis*). M.S Thesis. *San Jose State University*.
- Bartlett, G., C. Smith, F. Dominik, F. Batac, E. Dodd, B.A. Byrne, S. Jang, D. Jessup, J. Chantrey, and M.J. Miller. (2016).** prevalence, pathology, and risk factors associated with *Streptococcus phocae* infection in southern sea otters (*Enhydra lutris nereis*). *Journal of Wildlife Diseases*, **52**(1): 1-9.
- Baskaran, M., G.H. Hong, S. Dayton, J.L. Bodkin, and J.J. Kelley. (2003).** Temporal variations of natural and anthropogenic radionuclides in sea otter skull tissue in the North Pacific Ocean. *Journal of Environmental Radioactivity*, **64**(1): 1-18.
- Batac, F.I., M.A. Miller, M.E. Moriarty, Z. Shen, J.G. Fox, and K.M. Ottemann, (2020).** *Helicobacter* spp. in Necropsied Southern Sea Otters (*Enhydra lutris nereis*) Is Associated With Gastric Ulcers and Sensitive to Multiple Antibiotics. *Frontiers in Marine Science*.

- https://doi.org/10.3389/fmars.2020.00413
- Batten, B.T. (1990).** Press interest in sea otters affected by the T/V Exxon Valdez oil spill: A star is born. pp 31-40. In: **Bayha, K. and J. Kormendy (eds.)**. Sea otter symposium: Proceedings of a symposium to evaluate the response effort on behalf of sea otters after the T/V Exxon Valdez oil spill into Prince William Sound, Anchorage, Alaska April 17-19, 1990. *U.S. Fish and Wildlife Service, Biological Report*, **90**(12). 126 pp.
- Baur, D.C., A.M. Meade, and L.M. Rotterman. (1996).** Recovery under the marine mammal protection act and beyond: The Law Governing Sea Otter Conservation. *Endangered Species UPDATE Special Issue*, **13**(12): 73-78.
- Beatty, W.S., M. St. Martin, and R. Wilson. (2021).** Evaluating the current condition of a threatened marine mammal population: Estimating northern sea otter (*Enhydra lutris kenyoni*) abundance in southwest Alaska. *Marine Mammal Science*. <https://doi.org/10.1111/mms.12807>
- Beichman, A.C., K.P. Koepfli, G. Li, W. Murphy, P. Dobrynin, S. Kliver, M.T. Tinker, M.J. Murray, J. Johnson, K. Lindblad-Toh, E.K. Karlsson, K.E. Lohmueller, and R.K. Wayne. (2019).** Aquatic Adaptation and Depleted Diversity: A Deep Dive into the Genomes of the Sea Otter and Giant Otter. *Molecular Biology and Evolution*, **36**(12): 2631-2655.
- Benech, S.V. (1979).** Sea otter (*Enhydra lutris*) activities within the vicinity of the Diablo Canyon nuclear power plant, 1973-1978. *Transactions of the Western Section of the Wildlife Society*, **15**: 33 – 44.
https://www.wildlifeprofessional.org/western/transactions/transactions_1979_5.pdf
- Bentall, G.B., B.H. Rosen, J.M. Kunz, M.A. Miller, M.A., G.W. Saunders, and N.L. LaRoche. (2016).** Characterization of the putatively introduced red alga *Acrochaetium secundatum* (Acrochaetales, Rhodophyta) growing epizoically on the pelage of southern sea otters (*Enhydra lutris nereis*). *Marine Mammal Science*, **32**(2): 753-764.
- Bentall, G.B. (2005).** Morphological and behavioral correlates of population status in the southern sea otter: A comparative study between California and St. Nicolas Island. M.S. Thesis, University of California. Santa Cruz. Unpublished.
- Benz, C. (1996).** Evaluating the attempts to reintroduce sea otters along the California coast line. *Endangered Species UPDATE Special Issue*, **13**(12): 31-35.
- Benz, C. (1996).** Recovery under the endangered species act: The second sea otter recovery plan. *Endangered Species UPDATE Special Issue*, **13**(12): 36-37.
- Bigg, M.A. and I.B. MacAskie. (1978).** Sea otters re-established in British Columbia. *Journal of Mammalogy*, **59**(4): 874-876.
- Bissell, H. and F. Hubbard. (1968).** Reports on the sea otter, abalone and kelp resources in San Luis Obispo and Monterey counties and proposals for reducing the conflict between the commercial abalone industry and the sea otter. *California Fish and Game Report* requested by Senate Concurrent Resolution 74 of 1967 Legislative Session.
- Bodkin, J.L. (2015).** Historic and contemporary status of sea otters in the north Pacific. pp.43-61. In: (Larson, S.E.B., J.L., G.R. van Blaricom, G.R.(eds). *Sea Otter Conservation*. Academic Press, London, UK.
- Bodkin, J. L., B.E. Ballachey, H.A. Coletti, G.G. Esslinger, K.A. Kloecker, S.D. Rice, J.A. Reed, and D. H. Monson. (2012).** Long-term effects of the ‘Exxon Valdez’ oil spill: Sea otter foraging in the intertidal as a pathway of exposure to lingering oil. *Marine Ecology Progress Series*, **447**: 273- 287.
- Bodkin, J.L. (2004).** Alaska Sea Otter Research Workshop: Addressing the decline of the southwestern Alaska sea otter population (Seward: Alaska Sea Grant College Program, 2004). P12.
- Bodkin, J.L., G.G. Esslinger, and D.H. Monson. (2004).** Foraging depths of sea otters and implications to coastal marine communities. *Marine Mammal Science*, **20**: 305-321.
- Bodkin, J.L., and D.H. Monson. (2003).** Sea otter population structures and ecology in Alaska. *Arctic Research of the United States*, **16**: 31-36.
- Bodkin, J.L., B.E. Ballachey, T.A. Dean, A.K. Fukuyama, S.C. Jewett, L. McDonald, D.H. Monson, C. E. O’Clair, and G.R. VanBlaricom. (2002).** Sea otter population status and the process of recovery from the 1989 ‘Exxon Valdez’ oil spill. *Marine Ecology-Progress Series*, **241**: 237-253.

- Bodkin, J.L., B.E. Ballachey, M.A. Cronin and, M.K. & K.T. Scribner. (1999).** Population demographics and genetic diversity in remnant and translocated populations of sea otter. *Conservation Biology*, **13**(6): 1378-1385.
- Bodkin, J.L., J.A. Ames, R.J. Jameson, A.M. Johnson, and G.M. Matson. (1997).** Estimating age of sea otters with cementum layers in the first premolar. *Journal of Wildlife Management*, **61**(3): 967-973.
- Bodkin, J.L. and B.E. Ballachey. (1996).** Biology and status of the southern sea otter: Monitoring the status of the wild sea otter population-Field Studies and Techniques. *Endangered Species UPDATE Special Issue*. **13**(12): 14-19.
- Bodkin, J.L. and M.S. Udevitz. (1996).** 1993 trial aerial survey of sea otters in Prince William Sound, Alaska. Exxon Valdez oil spill restoration project final report (restoration project 93043-2), *National Biological Service*, Anchorage, Alaska. 35 pp.
- Bodkin, J.L., D.M. Mulcahy, and C.J. Lensink. (1993).** Age specific reproduction in female sea otters (*Enhydra lutris*) in south central Alaska: Analysis of reproductive tracts. *Canadian Journal of Zoology*, **71**: 1811-1815.
- Bonnell, M.L., R.G. Ford, and A.J. Brody. (1996).** Recovery under the endangered species act: Assessing the threat of oil spills to southern sea otters. *Endangered Species UPDATE Special Issue*. **13**(12): 38-42.
- Boolotian, R.A. (1958).** The playful sea otter. *Outdoor California*, August: 12-14.
- Boessenecker, R.W. (2018).** A Middle Pleistocene sea otter from northern California and the antiquity of *Enhydra* in the Pacific Basin. *Journal of Mammal Evolution*, **25**: 27-35.
- Bolin, R.L. (1938).** Reappearance of the southern sea otter along the California coast. *Journal of Mammalogy*, **19**: 301-303.
- Bowen, L., B.E. Ballachey, J.L. Bodkin, A.K. Miles, D. Esler, and K.A. Kloecker. (2017).** Sea otter gene transcription data from Kodiak, the Alaska Peninsula and Prince William Sound, Alaska, 2005-2012: *U.S. Geological Survey data release*. <https://doi.org/10.5066/F789141P>.
- Bowen, L., A. Miles, B. Ballachey, S. Waters, and J. Bodkin. (2016).** Gene transcript profiling in sea otters post-Exxon Valdez Oil Spill: A tool for marine ecosystem health assessment. *Journal of Marine Science and Engineering*, **4**(2): 39.
- Bowen L., A.K. Miles, C.A. Kolden, J.A. Saarinen, J.L. Bodkin, and M.J. & M.T. Tinker. (2014).** Effects of wildfire on sea otter (*Enhydra lutris*) on gene transcript profiles. *Marine Mammal Science*, **3**(1): 192-201.
- Bowen, L., A.K. Miles, M. Murray M. Haulena, J. Tuttle, W. Van Bonn, L. Adams, J.L. Bodkin, B. Ballachey, J. Estes, M.T. Tinker, R. Keister, and J.L. Stott. (2012).** Gene transcription in sea otters (*Enhydra lutris*): Development of a diagnostic tool for sea otter and ecosystem health. *Molecular Ecology Resources*, **12**(1): 67-74.
- Bowen, L., B.M. Aldridge, A.K. Miles, and J.L. Stott. (2006).** Expressed MHC class II genes in sea otters (*Enhydra lutris*) from geographically disparate populations. *Tissue Antigens*, **67**(5): 402-408.
- Brancato, M. S., L. Milonas, C. E. Bowlby, R. Jameson, and J. W. Davis. (2009).** Chemical contaminants, pathogen exposure and general health status of live and beach-cast Washington sea otters (*Enhydra lutris kenyoni*). Marine Sanctuaries Conservation Series ONMS 08-08. US Department of Commerce, National Oceanic and Atmospheric Administration, Office of National Marine Sanctuaries, Silver Springs, Maryland, 181 pp.
- Brennan, E.J. and J. Houck. (1996).** The role of rehabilitation and captive management in sea otter conservation: Sea otters in captivity-The need for coordinated management as a conservation Strategy. *Endangered Species UPDATE, Special Issue*, **13**(12): 61-67.
- Brody, A. J., K. Ralls, and R. B. Siniff. (1996).** Potential impact of oil spills on California sea otters: Implications of the Exxon Valdez Spill in Alaska. *Marine Mammal Science*, **12**(1): 38-53.
- Brosseau, C., M.L. Johnson, and K.W. Kenyon. (1975).** Breeding the sea otter (*Enhydra lutris*) at the Tacoma Aquarium. *International Zoo Yearbook*, **15**: 144-147.
- Brown, A.C., E. Elias. (2008).** Extralimital records of the sea otter (*Enhydra lutris*) in northern California. *Northwest. Naturalist*, **89**: 54-56.

- Brown, K.L., S. Atkinson, C.G. Furin, F.J. Mueter, and R. Gerlach. (2021).** Metals in the stomach contents and brain, gonad, kidney, and liver tissues of subsistence-harvested northern sea otters (*Enhydra lutris kenyoni*) from Icy Strait, Alaska. *Marine Pollution Bulletin*, **166**:112183. DOI: <https://doi.org/10.1016/j.marpolbul.2021.112183>.
- Brown, S.R., M. Glenn, and S.R. Libra. (1994).** Case report: Perivular uroliths in the Alaska sea otter. Proceedings 25th International Association of Aquatic Animal Medicine (IAAAM) Conference, Vallejo, California. Pages 16-20.
- Brownstein, D., M.A. Miller, S.C. Oates, B.A. Byrne, S. Jang, M.J. Murray, V.A. Gill, and D.A. Jessup. (2011).** Antimicrobial susceptibility of bacterial isolates from sea otters (*Enhydra lutris*). *Journal of Wildlife Diseases*, **47**: 278-292.
- Bryant, H.C. (1915).** Sea otters near Point Sur. *California Fish and Game Bulletin*, **1**: 134-135.
- Burek-Huntington, K.A., V.A. Gill, A.M. Berrian, T. Goldstein, P. Tuomi, B.A. Byrne, K. Worman, and J. Mazet. (2021).** Causes of mortality of northern sea otters (*Enhydra lutris kenyoni*) in Alaska from 2002 to 2012. *Frontiers in Marine Science*. <https://doi.org/10.3389/fmars.2021.630582>
- Burek-Huntington, K.A., V. Gill, and D.S. Bradway. (2014).** Locally acquired disseminated histoplasmosis in a northern sea otter (*Enhydra lutris kenyoni*) in Alaska, USA. *Journal of Wildlife Diseases*, **50**(2): 389-392.
- Burek-Huntington, K.A., D.M. Mulcahy, A.M. Doroff, and T.O. Johnson, (2012).** Sarcomas in three free-ranging northern sea otters (*Enhydra lutris kenyoni*) in Alaska. *Journal of Wildlife Diseases*, **48**(2):483-487.
- Burek, K.A., V.A. Gill, N. Bronson, and P. Tuomi. (2005).** A pictorial guide to sea otter anatomy and necropsy findings. USFWS unpublished report. 44pp.
- Burgess, T.L., M.T. Tinker, M.A. Miller, J. Bodkin, M.J. Murray, J. A. Saarinen, L.M. Nichol, S. Larson, P.A. Conrad, and C.K. Johnson. (2018).** Defining the risk landscape in the context of pathogen pollution: *Toxoplasma gondii* in sea otters along the Pacific Rim. *Royal Society Open Science*, **5**: 171-178.
- Burgess, T.L., C. Kreuder Johnson, A. Burdin, V.A. Gill, A.M. Doroff, P. Tuomi, W.A. Smith, and T. Goldstein, (2017).** Brucella infection in Asian sea otters (*Enhydra lutris lutris*) on Bering Island, Russia. *Journal of Wildlife Diseases*, **53**(4): 864-868.
- Burn, D.M. and A.M. Doroff. (2005).** Decline in sea otter (*Enhydra lutris*) populations along the Alaska Peninsula, 1986-2001. NOAA: National Marine Fisheries Service, **103**(2): 270-279.
- Burton, G.J. (1982).** Placental uptake of maternal erythrocytes: A comparative study. *Placenta*, **3**: 407-434.

C

- California Department of Fish and Wildlife (2015).** Natural Diversity Database: Sea Otter (*Enhydra lutris*). California Department of Fish and Wildlife, Sacramento, USA.
- California Department of Fish and Game. (1976a).** A proposal for sea otter protection and research, and request for the return of management to the State of California. *Unpublished 2 volume report*.
- California Department of Fish and Game. (1976b).** Comments on the Friends of the Sea Otter's critique of the State of California's Sea Otter Proposal. 44 pp.
- Calkins, D. G. (1978).** Feeding behavior and major prey species of the sea otter (*Enhydra lutris*) in Montague Strait, Prince William Sound, Alaska. *Fishery Bulletin*.
- Calkins, D. and P.C. Lent. (1975).** Territoriality and mating behavior in Prince William Sound sea otters. *Journal of Mammalogy*, **56**: 528-529
- Campbell, K.M. and S.E. Santana. (2017).** Do differences in skull morphology and bite performance explain dietary specialization in sea otters? *Journal of Mammalogy*, **98**(5): 1408-1416.
- Capuano, A.M., M. Miller, D.E. Stallknecht, M. Moriarty, M. Plancarte, E. Dodd, F. Batac, and W.M. Boyce. (2017).** Serologic detection of subtype-specific antibodies to Influenza A Viruses in southern sea otters (*Enhydra lutris nereis*). *Journal of Wildlife Diseases*, **53**(4): 906-910.

- Carrasco, S.E., B.B. Chomel, V.A. Gill, R.W. Kasten, R.G. Maggi, E.B. Breitschwerdt, B.A. Byrne, K.A. Burek-Huntington, M.A. Miller, T. Goldstein, and J.A. Mazet.** (2014). Novel Bartonella infection in northern and southern sea otters (*Enhydra lutris kenyoni* and *Enhydra lutris nereis*). *Veterinary Microbiology*, **170**(3-4): 325-34.
- Carrasco, S.E., B.B. Chomel, V.A. Gill, A.M. Doroff, M.A. Miller, K.A. Burek-Huntington, R.W. Kasten, B.A. Byrne, T. Goldstein T, J.A. Mazet.** (2014). Bartonella spp. exposure in northern and southern sea otters in Alaska and California. *Vector Borne Zoonotic Diseases*, **14**(12):831-837.
- Casson, C.J. (1990).** Administering oral medications to captive sea otters (*Enhydra lutris*). Proceedings 18th International Marine Animal Trainers Association Conference, Chicago, Illinois. pp. 12-19.
- Casson, C.J., B. Anderson, and J.W. Nightingale. (1987).** A descriptive analysis of nursing in captive born Alaskan sea otters. Proceedings American Association of Zoological Parks and Aquariums Conference, Portland, Oregon. pp. 490-500.
- Carter, N.H, M.A. Miller, M.E. Moriarty, M.T. Tinker, R.B. Gagne, C.K. Johnson, M.J. Murray, M.M. Staedler, B. Bangoura, S. Larson, and H.B. Ernest HB.** (2022). Investigating associations among relatedness, genetic diversity, and causes of mortality in southern sea otters (*Enhydra lutris nereis*). *Journal of Wildlife Diseases*, **58**(1): 63-75.
- Carter, S.K., G.R. VanBlaricom, and B.L. Allen, B.L.** (2007). Testing the generality of the trophic cascade paradigm for sea otters: A case study with kelp forests in northern Washington, USA. *Hydrobiologia*, **579**: 233-249.
- Cheney, L.C. (1995).** An assessment of genetic variation within and between sea otter (*Enhydra lutris*) populations off Alaska and California. M.S. thesis. *San Jose State University*, Moss Landing, California. 49 pp.
- Chinn, S.M., D.H. Monson, M.T. Tinker, M.M. Staedler, and D.E. Crocker.** (2018). Lactation and resource limitation affect stress responses, thyroid hormones, immune function, and antioxidant capacity of sea otters (*Enhydra lutris*). *Ecology and Evolution*, **8**(16): 8433-8447.
- Chinn, S.M., M.A. Miller, M.T. Tinker, M.M. Staedler, F.I. Batac, E.M. Dodd, and L.A. Henkel.** (2016). The high cost of motherhood: End-lactation syndrome in southern sea otters (*Enhydra lutris nereis*) on the central California coast, U.S.A. *Journal of Wildlife Diseases*, **52**(2): 307-318.
- Clark, J.R. (1996).** Recovery under the endangered species act: Overview of the legislative mandates and the agencies the agencies responsible for implementation of southern sea otter protection under the endangered species act. *Endangered Species UPDATE Special Issue*, **13**(12): 28-30.
- Cohn, J. (1998).** Understanding Sea Otters. *Bioscience*, **48**: 151-155.
- Cole, R.A., D.S. Lindsay, D.K Howe, C.L. Roderick, J.P. Dubey, N.J. Thomas, and L.A. Baeten.** (2000). Biological and molecular characterizations of *Toxoplasma gondii* strains obtained from southern sea otters (*Enhydra lutris nereis*). *Journal of Parasitology*, **86**(3): 526-530.
- Comell, L.H., K.G. Osborn, and J.E. Antrim, Jr.** (1979). Coccidioidomycosis in a California sea otter (*Enhydra lutris*). *Journal of Wildlife Diseases*, **15**: 373-378.
- Conrad PA, Miller, M.A., C. Kreuder, E.R. James, J. Mazet, H. Dabritz, D.A. Jessup, F. Gulland, and M.E. Grigg.** (2005). Transmission of Toxoplasma: Clues from the study of sea otters as sentinels of *Toxoplasma gondii* flow into the marine environment. *International Journal of Parasitology*. **35**(11-12): 1155-68
- Constantino, P.J., J.J. Lee, D. Morris, and P.W. Lucas, A. Hartstone-Rose, W.K. Lee, N.J. Dominy, A. Cunningham, M. Wagner, and B.R. Lawn.** (2011). Adaptation to hard-object feeding in sea otters and hominins. *Journal of Human Evolution*, **61**(1): 89-96.
- Cornell, L.H., K.G. Osborn, J.E. Antrim Jr, and J.G. Simpson.** (1979). Coccidioidomycosis in a California sea otter (*Enhydra lutris*). *Journal of Wildlife Diseases*, **15**(3): 373-378.
- Costa, D. P. (1982).** Energy, nitrogen, and electrolyte flux and sea water drinking in the sea otter (*Enhydra lutris*). *Physiological Zoology*, **55**: 35-44.
- Costa, D.P. and G.L. Kooyman.** (1982). *Canadian Journal of Zoology*, **10**(1): 31-37.
- Costa, D.P. and G.L. Kooyman.** (1982). Oxygen consumption, thermoregulation, and the effect of fur oiling and washing on the sea otter (*Enhydra lutris*). *Canadian Journal of Zoology*, **60**: 2761-2767.

- Costa, D.P. and G.L. Kooyman. (1984).** Contribution of specific dynamic action to heat balance and thermoregulation in sea otter (*Enhydra lutris*). *Physiological and Biochemical Zoology*, **57**(2): 1999-2003.
- Costa, D.P. and G.L. Kooyman. (1979).** Effects of oil contamination in the sea otter (*Enhydra lutris*). *Final Report RU No. 71, Outer Continental Shelf Environmental Assessment Program.*, NOAA.
- Couffer, M.C. (2017).** First reported occurrence of the southern sea otter (*Enhydra lutris lutris*) at California's Santa Barbara Island since 1940. Bulletin: Southern California Academy of Sciences.
- Counihan-Edgar, K.L., V.A. Gill, A.M. Doroff, K.A. Burek, W.A. Miller, P.L. Shewmaker, S. Jang, C.E. Goertz, P.A. Tuomi, M.A. Miller, D.A. Jessup, and B.A. Byrne. (2012).** Genotypic characterization of *Streptococcus infantarius* subsp. *Coli* isolates from sea otters with infective endocarditis and/or septicemia and from environmental mussel samples. *Journal of Clinical Microbiology*, **50**: 4131-4133.
- Cray, D. (2006).** What's killing sea otters. *Time*: 62-63.
Available at: <https://content.time.com/time/magazine/article/0,9171,1538645,00.html>
- Cronin, M.A., J. Bodkin, B. Bellachey, J.A. Estes, and J.C. Patton, (1996).** Mitochondrial-DNA variation among subspecies and populations of sea otters (*Enhydra lutris*). *Journal of Mammalogy*, **77**(2): 546-557.
- Crandall, L.S. (1964).** Sea otters. pp. 345-348. In: L. S. Crandall. L.S. Management of wild mammals in captivity. University of Chicago Press, Chicago, Illinois. 761 pp.
- Cresswell H. (2015).** First Humboldt coast sea otter sighting in years. Times-Standard: <https://www.times-standard.com/2015/10/09/first-humboldt-coast-sea-otter-sighting-in-years/>
- Curland, J.M. (1997).** Effects of disturbance on sea otters (*Enhydra lutris*) near Monterey, California. Master's Thesis. San Jose State University. San Jose, California

D

- Da Silva, I.M. and S. Larson. (2005).** Predicting reproduction in captive sea otters (*Enhydra lutris*). *Zoo Biology*, **24**: 73-81.
- Davis, B.S. (1979).** Life and times of two sea otters: Mother and pup. *Oceans*, **12**:19-23.
- Davis, J.A. (1978).** A classification of the otters. pp. 14-33. In: **N. DuPlaix (ed.)**. *Otters: Proceedings of the fourth working meeting of the Otter Specialist Group*. Paramibo, Surinam, March, 1977. IUCN, Morges, Switzerland.
- Davis, J.D. and W.Z Lidicker. (1975).** The taxonomic status of the southern sea otter. *Proceedings of the California Academy of Sciences, Fourth Series* **40**: 429-437.
- Davis, R. W. and L. Hunter. (1995).** Cleaning and restoring the fur. pp. 95-102. In: **Williams, T.M. and R.W. Davis (eds)**. *Emergency care and rehabilitation of oiled Sea Otters: A guide for oil spills involving fur-rearing marine mammals*. Fairbanks: University of Alaska Press.
- Davis, R.W., T.M. Williams, J.A. Thomas, R.A. Kastelein, and L.H. Cornell. (1988).** The effects of oil contamination and cleaning on sea otters (*Enhydra lutris*). 11. Metabolism, thermoregulation, and behavior. *Canadian Journal of Zoology*, **66**: 2782-2790.
- DeGange, A.R., D.C. Douglas, D.H. Monson, and C.M. Robbins. (1995).** Surveys of sea otters in the Gulf of Alaska in response to the Exxon Valdez oil spill. Exxon Valdez oil spill state/federal natural resource damage assessment final report (Marine mammal study 6-7), U.S. Fish and Wildlife Service, Anchorage, Alaska. 11 pp.
- DeGange, R., B.E. Ballachey, and K. Bayha. (1995).** Release strategies for rehabilitated sea otters. pp. 141-154. In: **Williams, T.M. and R.W. Davis (eds.)**. *Emergency care and habilitation of sea otters*. University of Alaska Press, Fairbanks, Alaska.
- DeGange, A.R., A.M. Doroff, and D.H. Monson. (1994).** Experimental recovery of sea otter carcasses at Kodiak Island, Alaska, following the Exxon Valdez oil spill. *Marine Mammal Science*, **10**: 492-496.

- DeMaster, D.P., C. Marzin, and R.J. Jameson. (1996).** Recovery under the Marine Mammal Protection Act and Beyond: Estimating the historical abundance of sea otters in California. *Endangered Species UPDATE Special Issue*, **13**(12): 79-81..
- Dent, C.E.S., M.A Miller, F. Batac, E. Dodd, W. Smith, R. Pespane, and J. Foley. (2019).** Pathology and epidemiology of nasopulmonary acariasis (*Halarachne* sp.) in southern sea otters (*Enhydra lutris nereis*). *International Journal for Parasitology: Parasites and Wildlife*, **9**: 60-67.
- Department Fisheries and Oceans, Canada (DFO). (2015).** Trends in the abundance and distribution of sea otters (*Enhydra lutris*) in British Columbia updated with 2013 survey results. DFO Can. Sci. Advis. Sec. Sci. Advis. Rep. 201/04.
- Doroff, A. and A. Burdin. (2015).** *Enhydra lutris*: In: The IUCN Red List of Threatened Species 2015.
- Doroff, A., O. Badjeros, K. Corbell, D. Jenski, and M. Beaver. (2012).** Assessment of sea otter (*Enhydra lutris kenyoni*) diet in Kachemak Bay, Alaska (2008-2010). *IUCN Otter Specialist Group Bulletin*. **29**(1): 15-23.
- Doroff, A. and A. Burdin. (2011).** "Enhydra lutris" (online). In: *IUCN 2012*, IUCN Red List of Threatened Species. Version 2012.1.
- Doroff, A.M., J.A. Estes, M.T. Tinker, D.M. Burn and T.J. Evans. (2003).** Sea otter population declines in the Aleutian archipelago. *Journal of Mammalogy*, **84**: 55–64.
- Doroff, A.M. and D. Mulcahy, D., (1997).** A field guide to general necropsy and tissue collection for sea otters (*Enhydra lutris*) in Alaska. pp 1-49. In: Marine Mammals Management Technical Report MMM 97-3. U. S. Fish and Wildlife Service, Anchorage, Alaska.
- Doroff, A.M. and J.L. Bodkin. (1994).** Sea otter foraging behavior and hydrocarbon levels in prey. pp. 193-208. In: Loughlin. T.T. (ed.). Marine Mammals and the Exxon Valdez (1st ed.). Academic Press, Inc.
- Doroff, A.M. and A.R. DeGrange. (1994).** Sea otter (*Enhydra lutris*) prey consumption and foraging success in the northern Kodiak Archipelago. *Fisheries Bulletin*, **92**: 704-710.
- Dubey, J.P., F.H.A. Murata, C.K. Cerqueira-Cézar, O.C.H. Kwok, and M.E. Grigg. (2020).** Recent epidemiologic and clinical importance of *Toxoplasma gondii* infections in marine mammals: 2009-2020. *Veterinary Parasitology*, **288**:109296. doi: 10.1016/j.vetpar.2020.109296
- Dubey, J.R., A.C. Rosypal, B.M. Rosenthal, N.J. Thomas, D.S. Lindsay, J.F. Stanek, S.M. Reed and W.J. Saville. (2001).** *Sarcocystis neurona* infections in sea otter (*Enhydra lutris*): evidence for natural infections with sarcocysts and transmission of infectionn to opossums (*Didelphis virginiana*). *Journal of Parasitology*, **87**(6):1387-1393.
- Dudek, N.K., A.D. Switzer , E.K. Costello, M.J. Murray, J.A. Tomoleoni, M.M Staedler, M.T. Tinker, and D.A. Relman. (2022).** Characterizing the oral and distal gut microbiota of the threatened southern sea otter (*Enhydra lutris nereis*) to enhance conservation practice. *Conservation Science and Practice*, **4**(4) <https://doi.org/10.1111/csp2.12640>
- Duffield, D.A., J. Chamberlin-Lea, and J.E. Antrim. (1996).** The role of rehabilitation and captive management in sea otter conservation: A complex chromosome rearrangement in the karyotype of a wild-Caught male sea otter. *Endangered Species UPDATE Special Issue*, **13**(12): 68-78.
- Duggins, D.O. (1988).** The effects of kelp forests on near-shore environments: Biomass, detritus, and altered flow. pp. 192-201. In: **VanBlaricom, G.R.V. and J.A. Ektes** (eds.). *The community ecology of sea otters. Ecological Studies*, Vol. **65**. Springer-Verlag, Heidelberg, Germany.
- Duncan, C., V.A. Gil, K. Burek-Huntington, K.L. Pabilonia, S. Johnson, K.A. Fitzpatrick, C. Weller C, and G.J. Kersh. (2015).** *Coxiella burnetii* exposure in northern sea otters (*Enhydra lutris kenyoni*). *Diseases of Aquatic Organisms*, **114**(1): 83-87.

E

- Eberhardt, L. and K. Schneider. (1994).** Estimating sea otter reproductive rates. *Marine Mammal Science*, **10**(1): 31-37.
- Eberhardt, L.L. and D.B. Siniff. (1988).** Population model for Alaska peninsula sea otters. OCS study MMS 88-0091, *Minerals Management Service*, Alaska Region, Anchorage, Alaska. 94 pp.

- Ebert, E. (1968).** California sea otter-census and habitat survey. *Underwater Naturalist*. Winter. Pages 20-23.
- Ebert, E.E. (1968).** A food habits study of the southern sea otter (*Enhydra lutris nereis*). *California Fish and Game*, **54**: 33-42.
- Eby, R., R. Scoles, B.B. Hughes, and K. Wasson. (2017).** Serendipity in a salt marsh: Detecting frequent sea otter haul outs in a marsh ecosystem. *Ecology*, **98**: 2975-2977.
- Ecological Consulting, Inc. (1990).** Seasonal and annual trajectory analysis of simulated oil outflow from vessel routes offshore of the California sea otter range. Prepared for the U.S. Coast Guard by *Ecological Consulting, Inc.*, Portland, Oregon. 22 pp.
- Elliot Smith, E.A., S. D. Newsome, J.A. Estes, and M.T. Tinker. (2015).** The cost of reproduction: Differential resource specialization in the female and male California sea otters. *Oecologia*, **178**: 17-29.
- Elliot, H.W. (1874).** The sea otter and its hunting. pp. 54-62. In: A report upon the condition of affairs in the Territory of Alaska. House Executive Document Number 83, 44th Congress, 1st session, Washington, D.C. 277 pp.
- Elliott Smith, E.A., M.T. Tinker, E.L. Whistler, D.J. Kennett, R.L. Vellanoweth, D. Gifford-Gonzalez, M.G. Hylkema, and S.D. Newsome. (2020).** Reductions in the dietary niche of southern sea otters (*Enhydra lutris nereis*) from the Holocene to the Anthropocene. *Ecology and Evolution*, **10**(7): 3318-3329.
- Endangered Species Update. (1996).** Special Issue: Conservation and Management of the Southern Sea Otter.
- Erlandson, J.M., T.C. Rick, J.A. Estes, M.H. Graham, T.J. Braje, and R.L. Vellanoweth. (2005).** Sea otters, shellfish, and humans: 10,000 years of ecological interaction on San Miguel Island, California. pp. 58-69. In: **Garcelon, D.L. and C. Schwemmm (eds.)**. Proceedings of the Sixth California Islands Symposium, Arcata, CA: Institute for Wildlife Studies.
- Espinosa, S. (2018).** M.A. Thesis. Predictors of sea otter salt marsh use in Elkhorn Slough, California, Santa Cruz.
- Esslinger, G. G. (2018).** Gulf Watch Alaska Nearshore Component: Sea otter aerial survey data from Katmai National Park and Preserve, 2008 - 2018 (ver. 2.0, March 2020): *U.S. Geological Survey data release*, <https://doi.org/10.5066/F7930SG7>
- Esslinger, G.G., D. Esler, S. Howlin, and L.A. Starcevich. (2015).** Monitoring Population Status of Sea Otters (*Enhydra lutris*) in Glacier Bay National Park and Preserve, Alaska: Options and Considerations. National Park Service, Southeast Alaska Inventory and Monitoring Network. Open-File Report 2015-1119. <https://doi.org/10.3133/ofr20151119>
- Esslinger, G.G., B.H. Robinson, D.H. Monson, R.L. Taylor, D. Esler, B.P. Weitzman, and J. Garlich-Miller. (2021).** Abundance and Distribution of Sea Otters (*Enhydra lutris*) in the Southcentral Alaska stock, 2014, 2017, and 2019. *Open-File Report 2021-1122*. Prepared in cooperation with U.S. Fish and Wildlife Service. Available At: <https://doi.org/10.3133/ofr20211122>
- Estes, J. A. (1990c).** Growth and equilibrium in sea otter populations. *Journal of Animal Ecology*, **59**: 385-401.
- Estes, J. and J. Palmisano. (1974).** Sea otters: Their role on structuring nearshore communities. *Science*, **185**: 1058-1060.
- Estes, J., K. Underwood, and M. Karmann. (1986).** Activity-time budgets of sea otters in California. *Journal of Wildlife Management*, **50**: 626-638.
- Estes, J., N. Smith, and J. Palmisano. (1978).** Sea otter predation and community organization in the western Aleutian Islands, Alaska. *Ecology*, **59**: 822-833.
- Estes, J.A. (1980).** *Enhydra lutris*. In: Mammalian Species. *American Society of Mammalogy*, No. 133: 1-8.
- Estes, J.A. (1986).** Marine otters and their environment. *Ambio*, **15**: 181-183.
- Estes, J.A. (1990a).** Action plan for sea otters. pp. 22-28. In: **Foster-Turley, P., S. Macdonald, and C. Mason (eds.)**. *Otters: An action plan for their conservation*. IUCN/SC Publication, Kelvyn Press, Broadview, Illinois. 126 pp.
- Estes, J.A. (1990b).** Indices used to assess status of sea otter populations: A reply. *Journal of Wildlife Management*, **54**(2): 270-272

- Estes, J.A. (1991a).** Catastrophes and conservation: Lessons from sea otters and the Exxon Valdez oil spill. *Science*, **254**: 1596.
- Estes, J.A. (1991b).** Status of sea otter (*Enhydra lutris*) populations. pp. 27-35. In: **Reuther, C. and R Rochert** (eds.). Proceedings of the V. International Otter Colloquium. Habitat Number, **6**: 27-35.
- Estes, J.A. (1996).** The influence of large, mobile predators in aquatic food webs: Examples from sea otters and kelp forests. pp. 65-72. In: **Greenstreet, S.P.R. and M.L. Tasker** (eds.). Aquatic predators and their prey. Fishing News Books, *Blackwell Scientific*, Oxford, United Kingdom.
- Estes, J.A. and C. Harrold. (1988).** Sea otters, sea urchins and kelp beds: Some question of scale. pp. 116-150. In: **VanBlaricom, G.R. and J.A. Estes**. (eds.). *The Community Ecology of Sea Otters*. Springer, Berlin, Germany.
- Estes, J.A. and D.O. Duggins. (1995).** Sea otters and kelp forests in Alaska: Generality and variation in a community ecological paradigm. *Ecological Monographs*, **65**: 75-100.
- Estes, J.A. and G.R. VanBlaricom. (1985).** Sea otters and shellfisheries. pp.187-235. In: **Beddington, J.R., R.J.H. Beverton, and D.M. Lavigne** (eds.). *Marine Mammals and Fisheries*. *George Allen and Unwin*, London, United Kingdom.
- Estes, J.A. and R.J. Jameson, (1988).** A double-survey estimate for sighting probability of sea otters in California. *Journal of Wildlife Management*, **52**: 70-76.
- Estes, J.A., B.B. Hatfield, K. Ralls, and J. Ames. (2003).** Causes of mortality in California sea otters during periods of population growth and decline. *Marine Mammal Science*, **19**(1): 198-216.
- Estes, J.A., C.E. Bacon, W.M. Jarman, R.J. Norstrom, R G. Anthony, and A.K. Miles. (1997).** Organochlorines in sea otters and bald eagles from the Aleutian Archipelago. *Marine Pollution Bulletin*, **34**: 486-490.
- Estes, J.A., D.F. Doak, J.R. Bodkin, R.J. Jameson, D. Monson, J. Watt, and M.T. Tinker. (1996).** Comparative demography of sea otter populations. Federal Government Series, Endangered Species Update, Special Issue: Conservation and Management of the southern sea otter 13: 11-13.
- Estes, J.A., D.F. Doak, J.R. Bodkin, R.J. Jameson, D. Monson, J. Watt, and M.T. Tinker (1996).** Biology and status of the southern sea otter: Comparative demography of sea otter populations. *Endangered Species UPDATE Special Issue*, **13**(12): 11-13.
- Estes, J.A., M.L. Riedman, M.M. Staedler, M.T. Tinker, and B.E. Lyon. (2003).** Individual variation in prey selection by sea otters: Patterns, causes, and implications. *Journal of Animal Ecology*, **72**: 144-155.
- Estes, J.A., R.J. Jameson, and A.M. Johnson. (1981).** Food selection and some foraging tactics of sea otters. Worldwide Furbearer Conference, Inc., pp 606-641.
- Estes, J.A., R.J. Jameson, and E.B. Rhode. (1982).** Activity and prey election in sea otter: Influence of population status on community Structure. *The American Naturalist*, **120**(2): 242-258.
- Estes, J.A., Tinker, M.T., Williams, T.M. and D.F. Doak. (1998).** Killer whale predation on sea otters linking oceanic and nearshore ecosystems. *Science*, **282**: 473-476.
- Estes, J.S. (1977).** Population estimates and feeding behavior of sea otters. pp. 511-526. In: **Merritt, M.L. and R.G. Fuller.** (eds.). *The environment of Amchitka Island*. *National Technical Information Service*. Springfield, VA
- Estes, J.A., M.T. Tinker, A.M. Doroff, and D.M. Burn, D. (2005).** Continuing sea otter population declines in the Aleutian archipelago. *Marine Mammal Science*, **21**: 169-172.
- Evans, T.J., D.M. Burn, and A.R. DeGange. (1997).** Distribution and relative abundance of sea otters in the Aleutian archipelago. *U.S. Fish and Wildlife Service*, Marine Mammals Management Technical Report MMM 97-5.

F

- Fanshawe, S., G. R. VanBlaricom, and A.A. Shelly. (2003).** Restored top carnivores as detriments to the performance of marine protected areas intended for fishery sustainability: A case study with red abalones and sea otters. *Conservation Biology*, **17**(1), 273-283.

- Faurot-Daniels, E. and D. C. Baur. (1996).** Recovery under the endangered species act: The role of friends of the sea otter in resource protection. *Endangered Species UPDATE Special Issue*, **13**(12): 47-49.
- Faurot, E.R., J.A. Ames, and D.P. Costa. (1986).** Analysis of sea otter (*Enhydra lutris*) scats collected from a California haulout site. *Marine Mammal Science*, **2**(3): 223-227.
- Fausett, L.L. (1976).** Assimilation efficiency of captive sea otters. M.S. thesis, *University of California*, Long Beach, California. 39 pp.
- Fisher, E. M. (1941).** Notes on the teeth of the sea otter. *Journal of Mammalogy*, **22**(4): 428.
- Fisher, E. M. (1940).** Early life of a sea otter pup. *Journal of Mammalogy*, **21**(2): 132.
- Fisher, E.M. (1940).** The sea otter in California. *Proceedings of the Sixth Pacific Science Congress*, **4**: 231-240.
- Fisher, E. (1939).** Habits of the southern sea otter. *Journal of Mammalogy*, **50**: 21-36.
- Fisheries and Oceans Canada. (2014).** Management plan for the sea otter (*Enhydra lutris*) in Canada. *Species at Risk Act Management Plan Series*. Fisheries and Oceans Canada, Ottawa. iv + 50 pp.
- Flannery, B.G. et al. (2021).** Genetic variation in sea otters (*Enhydra lutris*) from the North Pacific with relevance to the threatened Southwest Alaska distinct population segment. *Marine Mammal Science*. <https://doi.org/10.1111/mms.12899>
- Ford, R.G. and M.L. Bonnell. (1995).** Potential impacts of oil spills on the southern sea otter population. Final Report prepared for the U. S. Fish and Wildlife Service, Ventura, California, by *Ecological Consulting, Inc.*, Portland, Oregon. 42 pp.
- Foster, M.S. and D.R. Schiel. (1988).** Kelp communities and sea otters: Keystone species or just another brick in the wall? pp. 92-115. In: **VanBlaricom, G.R. and J.A. Estes (eds.)**. *The community ecology of sea otters. Ecological Studies*, Vol. 65. Springer-Verlag, Heidelberg, Germany.
- Foster-Turley, P., Macdonald, S., and C. Mason (eds). (1990).** OTTERS: An Action Plan for their Conservation. *International Union for the Conservation of Nature and Natural Resources*.
- France, R. L. and R.H. Peters. (1997).** Ecosystem differences in the trophic enrichment of ¹³C in aquatic food webs. *Canadian Journal of Fisheries and Aquatic Science*, **54**: 1255-1258.
- Fujii, J. A., K. Ralls, and M.T Tinker. (2015).** Ecological drivers of variation in tool-use frequency across sea otter populations. *Behavioral Ecology*, **26**(2): 519-526.

G

- Gagne, R.B., M.T. Tinker, K.D. Gustafson, K. Ralls, S. Larson, L.M. Tarjan, M.A. Miller, and H.B. Ernest. (2018).** Measures of effective population size in sea otters reveal special considerations for wide-ranging species. *Evolutionary Applications*, **11**(10): 1779-1790.
- Garlich-Miller, J.L., G.G. Esslinger, and B.P. Weitzman. (2018).** Aerial surveys of sea otters (*Enhydra lutris*) in Lower Cook Inlet, Alaska, May 2017. *U.S. Fish and Wildlife Service, Marine Mammals Management Technical Report: MMM 2018-01*. 22pp.
- Garrott, R.A., L.L. Eberhardt, and D.M. Bum. (1993).** Mortality of sea otters in Prince William Sound following the Exxon Valdez oil spill. *Marine Mammal Science*, **9**: 343-359.
- Garshelis, D.L. and C.B. Johnson. (2001).** Sea otter population dynamics and the Exxon Valdez: Disentangling the confounding effects. *Journal of Applied Ecology*, **38**: 19-35.
- Garshelis, D.L. and C.B. Johnson. (1999).** Otter eating orcas. *Science*, **283**: 175.
- Garshelis, D.L. (1997).** Sea otter mortality estimated from carcasses collected after the Exxon Valdez oil spill. *Conservation Biology*, **11**: 905-916.
- Garshelis, D.L., J.A. Ames, R.A. Hardy, and F.E. Wendell. (1990).** Indices used to assess status of sea otter populations: A comment. *Journal of Wildlife Management*, **54**(2): 260-269.
- Garshelis, D.L., J.A. Garshelis, and A.T. Kimker. (1986).** Sea otter time budgets and prey relationships in Alaska. *Journal of Wildlife Management*, **50**: 637-647.
- Garshelis, D.L. and J.A. Garshelis. (1984).** Movements and management of sea otters in Alaska. *Journal of Wildlife Management*, **48**: 665-678

- Garshelis, D. L., A.M. Johnson, and J.A. Garshelis. (1984).** Social organization of sea otters in Prince William Sound, Alaska. *Canadian Journal of Zoology*, **62**(12), 2648-2658.
- Garshelis D. L. (1983).** Ecology of sea otter in Prince William Sound, Alaska. Ph.D. thesis, *University of Minnesota*, Minneapolis, Minnesota. 321 pp.
- Gelatt, T.S. (1996).** Activity patterns and time budgets of sea otters at Amchitka Island, Alaska. M.S. thesis. *University of Minnesota*, Minneapolis, Minnesota. 87 pp.
- Geraci, J.R. and T.D. Williams. (1990).** Physiologic and toxic effects on sea otters. pp 211-221. Chapter 8. In: **Geraci. R. and D.J. St. Aubin. (Eds.).** Sea Mammals and Oil: Confronting the Risks. Academic Press, Inc., New York, NY.
- Gerber, L.R., M.T. Tinker, D.F. Doak, J.A. Estes, and D.J. Jessup. (2004).** Mortality sensitivity in life-stage simulation analysis: A case study of southern sea otters. *Ecological Applications*, **14**: 1554-1565.
- Ghoul, A. and C. Reichmuth. (2016a).** Auditory sensitivity and masking profiles for the sea otter (*Enhydra lutris*). *Advances in Experimental Medicine and Biology*, **875**: 349-354.
- Ghoul, A. and C. Reichmuth. (2016b).** Sound production and reception in southern sea otters (*Enhydra lutris nereis*). *Advances in Experimental Medicine and Biology*, **730**: 157-159.
- Ghoul, A. and C. Reichmuth. (2014).** Hearing in the sea otter (*Enhydra lutris*): Auditory profiles for an amphibious marine carnivore. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural & Behavioral Physiology*, **200**(11): 967-981.
- Giddens, W.E., M. Ryland, T.A. Gornall, and C.J. Casson, (1984).** Idiopathic scoliosis in a newborn sea otter (*Enhydra lutris* L.). *Journal of Wildlife Diseases*, **20**(3): 248-250.
- Gill, V.A., (2006).** Marine mammal unusual mortality event initiation protocol for northern sea otters. U. S. Fish and Wildlife Service report, Anchorage, Alaska, pp. 1-11.
- Glazier, R. J. (1984).** Sea otters: Delight or dilemma. Proceedings American Association of Zoological Parks and Aquariums Conference, Miami, Florida. Pages 237-241.
- Goldstein, T., V.A. Gill, P. Tuomi, D. Monson, A. Burdin, P.A. Conrad, J.L. Dunn, C. Field, C. Johnson, D.A. Jessup, J. Bodkin, and A.M. Doroff. (2011).** Assessment of clinical pathology and pathogen exposure in sea otters (*Enhydra lutris*) bordering the threatened population in Alaska. *Journal of Wildlife Diseases*, **47**: 79-592
- Goldstein, T., J.A. Mazet, V. A. Gill, A.M. Doroff, K.A. Burek, and J.A. Hammond. (2009).** Phocine distemper virus in northern sea otters in the Pacific Ocean, Alaska, USA. *Emerging Infectious Diseases*, **15**: 925-927.
- Gorbics, C. S. and J.L. Bodkin. (2001).** Stock structure of sea otters (*Enhydra lutris kenyoni*) in Alaska. *Marine Mammal Science*, **17**(3): 632-647.
- Graham, M. and K. G. Hewlett. (1988).** The biology of the northern sea otters at the Vancouver Aquarium. Proceedings American Association of Zoological Parks and Aquariums Regional Conference, Monterey, California. Pages 218-222.
- Graves, J. A. (1997).** What is a California Sea Otter? Pacific Grove, California. The Boxwood Press.
- Gunther-Harrington, C.T., M.E. Moriarty, C.L. Field, L.M. Adams, C.K. Johnson, and M.J. Murray. (2021).** Transthoracic echocardiographic evaluation and serum cardiac troponin values in anesthetized healthy female southern sea otters (*Enhydra lutris nereis*). *Journal of Zoo and Wildlife Medicine*, **52**(2): 490-498.

H

- Hall, K.R.L. and G.B. Schaller. (1964).** Tool-using behavior of the California sea otter. *Journal of Mammalogy*, **45**: 287-298.
- Ham-Lamme, K.D., D.P. King, B.C. Taylor, C. House, D.A. Jessup, P.K. Yochem, F.M.D. Gulland, D.A. Ferrick, and J.L. Stott. (1999).** The application of immuno-assays for the serological detection of morbillivirus exposure in free-ranging harbor seals (*Phoca vitulina*) and sea otters (*Enhydra lutris*) from the west coast of the United States. *Marine Mammal Science*, **15**(2): 601-608.

- Hanni, K.D., J.A.K. Mazet, F.M.D. Gulland, J. Estes, M. Staedler, M.J. Murray, and D.A. Jessup.** (2003). Clinical pathological values and assessment of pathogen exposure in southern and Alaskan sea otters. *Journal of Wildlife Diseases*, **39**: 837-850.
- Hanson, M.B., L.J. Bledsoe, B.C. Kirkvold, C.J. Casson, and J.W. Nightingale.** (1993). Behavioral budgets of captive sea otter mother-pup pairs during pup development. *Zoo Biology*, **12**: 459-477.
- Hanson. R.R.D. (2019).** Understanding stakeholders' perspectives of urban southern sea otters (*Enhydra lutris nereis*) and the perceived conservation challenges in Monterey Bay, California. *University of Bristol*. Bristol, England
- Harley, J.R., V.A. Gill, S. Lee, K. Kannan, V. Santana, K. Burek-Huntington, and T.M. O'Hara.** (2019). Concentrations of organohalogens (PCBs, DDTs, PBDEs) in hunted and stranded northern sea otters (*Enhydra lutris kenyoni*) in Alaska from 1992 to 2010: Links to pathology and feeding ecology. *Science of the Total Environment*, **15**(691): 789-798.
- Harrold, C., E.J. Brennan, T. Williams, M. Staedler, and J. Hymer.** (1996). The California sea otter: Changing needs and challenges. Proceedings 4th International Aquarium Congress, Tokyo, Japan. (unable to confirm publisher)
- Harris, C.J. (1968).** *Otters: A study of the recent Lutrinae*. Weidenfield and Nicolson, London, United Kingdom. 397 pp.
- Harris, H.S., S.C. Oates, M.M. Staedler, M.T. Tinker, D.A. Jessup, J.T. Harvey, and M.M. Miller.** (2010). Lesions and behavior associated with forced copulation of juvenile Pacific harbor seal by southern sea otters (*Enhydra lutris nereis*). *Aquatic Mammals*, **36**(4): 331-341.
- Harris, K.A. (2005).** Hydrocarbons in sea otters (*Enhydra lutris*) and their habitat in coastal British Columbia, Canada. M.S., *University of Victoria*. Victoria, Canada.
- Hart, K., V.A. Gill, and K. Kannan.** (2009). Temporal trends (1992-2007) of perfluorinated chemicals in northern sea otters (*Enhydra lutris kenyoni*) from south-central Alaska. *Archives of Environmental Contamination and Toxicology*, **56**(3): 607-614.
- Hatfield, B.B., J.L. Yee, M.V. Kenner, J.A. Tomoleoni, and M.T. Tinker.** (2018). California sea otter (*Enhydra lutris nereis*) census results, Spring 2018. U.S. Geological Survey Data Series 1097.10 pp.
- Hatfield, B.B., J.L. Yee, M.C. Kenner, and J.A. Tomoleoni.** (2019). California Sea Otter (*Enhydra lutris nereis*) Census Results, Spring 2019. *US Geological Survey*. Data Series 1118.
- Hatfield, B.B., M.D. Harris, C. Young, J.A. Ames, and M.T. Tinker.** (2017). Summary of stranded southern sea otters, 1985-2018 (ver. 3.0, June 2021): *U.S. Geological Survey Data Release*. <https://doi.org/10.5066/F71J98P4>.
- Hatfield, B.B., J.A. Ames, J.A. Estes, M.T. Tinker, A.B. Johnson, M.M Staelder, and M.D. Harris.** (2011). Sea otter mortality in fish and shellfish traps: estimated potential impacts and exploring possible solutions. *Endangered Species Research*, **13**: 219-229.
- Hatfield, B.B. and J.A. Estes.** (2000). Preliminary results of an evaluation of the potential threat to sea otters posed by nearshore finfish trap fishery. Unpublished. 6 pp. + appendices.
- Hatfield, B.B., D. Marks, M.T. Tinker, K. Nolan and J. Pierce.** (1998). Attacks on sea otters by killer whales. *Marine Mammal Science*, **14**: 888-894.
- Hatfield, B. B., R.J. Jameson, T.G. Murphey, and D.D. Woodard.** (1994). Atypical interactions between male southern sea otters and pinnipeds. *Marine Mammal Science*, **10**: 111-114.
- Hattori, K., A.M. Burdin, M. Suzuki, and N. Ohtaishi.** (2003). Age-related change and allometry of skull and canine of sea otters (*Enhydra lutris*). *Journal of Veterinary Medical Science*, **65**(4): 439-47.
- Haulena, M. (2012).** Gene transcription in sea otters (*Enhydra lutris*); development of a diagnostic tool for sea otter and ecosystem health. *Molecular Ecology Resources*, **12**(1): 67-74.
- Haulena, M., B. Kitchell, V. MacDonald, L. Mitchell, S. Dow, and S. Raverty.** (2012). Management of lymphoma in a northern sea otter (*Enhydra lutris kenyoni*) using chemotherapy and a novel autologous vaccine Therapy. *International Association of Aquatic Animal Medicine (IAAAM)*, **2012**.
- Hempstead, C. and S. Larson.** (2019). Sea otter (*Enhydra lutris*) diet diversity in zoos and aquariums. *Aquatic Mammals*, **45**(4): 374-379.

- Hennessy, S.L. and G.V. Morejohn. (1977).** Acanthocephalan parasites of the sea otter (*Enhydra lutris*) off coastal California. *California Fish and Game*, **63**: 268-272.
- Herbert, S.S., F.E. Hayes, and M.E. Hellie. (2019).** Kleptoparasitism of the sea otter (*Enhydra lutris*) and Steller sea lion (*Eumetopias jubatus*) by the glaucous-winged gull (*Larus glaucescens*) at Seward, Alaska. *Polar Biology*, **42**, 1935-1941.
- Hewlett, S. (1983).** A decade of sea otters (*Enhydra lutris*). Proceedings American Association of Zoological Parks and Aquariums Conference, Vancouver, British Columbia. Pages 224-228.
- Hildebrand, M. (1954).** Incisor tooth wear in the sea otter. *Journal of Mammalogy*, **35**(4): 595.
- Hilton-Taylor, C. (2000).** “*Enhydra lutris*” (online). In: IUCN 2000. IUCN Red List of Threatened Species. Version 2001.
- Hines, A.H. and J.S. Pearse. (1982).** Abalones, shells, and sea otters: Dynamics of prey populations in central California. *Ecology*, **63**: 1547-1560.
- Hoffer, S.A. (1973).** Sea otters in captivity. *Sea Frontiers*, (May-June). Pages 141-147.
- Hoffman, R.J. and R.W. Risebrough (eds.). (1995).** Accumulation pattern of heavy metals and chlorinated hydrocarbons by sea otters (*Enhydra lutris*) in California. *Marine Mammal Commission*, 1625 Eye St., NW., Washington, D.C. 20006.
- Hook, S.E., M.E. Cobb, J.T. Oris, and J.W. Anderson. (2008).** Gene sequences for cytochromes p450 1A1 and 1A2: The need for biomarker development in sea otters (*Enhydra lutris*). *Comparative Biochemistry and Physiology-Part B: Biochemistry & Molecular Biology*, **151**(3): 336-348.
- Houston, C. (2017).** Modelling potential kelp (*Laminariales*) forest habitat around Haida Gwaii anticipating the return of sea otters (*Enhydra lutris*). Master of Resource Management, University of Akureyi. Isafjorour, Iceland.
- Howard, L.D. (1975).** Muscular anatomy of the hind limb of the sea otter (*Enhydra lutris*). San Francisco: *California Academy of Sciences*, **40**(12): 415-416.
- Hughes, B.B., K. Wasson, M.T. Tinker, S.L. Williams, L.P. Carswell, K.E. Boyer, M.W. Beck, Eby, R., R. Scoles, M. Staedler, S. Espinosa, M. Hessing-Lewis, E.U. Foster, M.K. Beheshti, T.M. Grimes, B.H. Becker, L. Needles, J.A. Tomoleoni, J. Rudebusch J, E. Hines, and B.R. Siliman. (2019).** Species recovery and recolonization of past habitats: lessons for science and conservation from sea otters in estuaries. *PeerJ*. 2019;7:e8100. <https://doi.org/10.7717/peerj.8100>
- Huntington, K.A.B., V.A. Gill, A.M. Berrian, T. Goldstein, P. Tuomi, B.A. Byrne, K. Worman, and J. Mazer. (2021).** Causes of Mortality of Northern Sea Otters (*Enhydra lutris kenyoni*) in Alaska From 2002 to 2012. *Frontiers in Marine Science*.
- Hupka, B.D. (2018).** Functional morphology of sea otter (*Enhydra lutris spp.*) forelimbs with respect to tool-Use. M.S. Thesis. *University of California*, Los Angeles.

I

- Imai, D., S. Jang, M. Mille, and P.A. Conrad. (2009).** Characterization of beta-hemolytic streptococci isolated from southern sea otters (*Enhydra lutris nereis*) stranded along the California coast. *Veterinary Microbiology*, **136**(3-4): 378-381.
- Island, H.D., J. Wengeler, and H. Cleussenius-Kalman. (2017).** The flehmen response and pseudo suckling in a captive, juvenile southern sea otter. *Zoo Biology*, **36**(1): 30-39.
- Iverson, J.A. and J. Krog. (1973).** Heat production and body surface area in seals and sea otters. *Norwegian J. Zool*, **21**: 51-54.

J

- Jackson, J.R. (2021).** Sea Otter (*Enhydra lutris*) impacts to seagrass (*Zostera marina*) communities across the northeast Pacific. Department of Biology, Sonoma State University.
- Jameson, R.J. and S. Jefferies. (2005).** Results of a 2005 survey of the reintroduced Washington sea otter population. Unpublished report. 6pp.

- Jameson, R.J, and A.M. Johnson. (1993).** Reproductive characteristics of female sea otters. *Marine Mammal Science*, **9**: 156-167.
- Jameson, R.J. (1989).** Movements, home range, and territories of male sea otters off central California. *Marine Mammal Science*, **5**: 159-172.
- Jameson, R.J. and S. Jeffries (1999).** Results of the 1999 survey of the Washington sea otter Population. Unpublished Report. 5pp
- Jameson, R.J. (1996).** Status reports: West coast translocation projects, Oregon and Washington. *The Otter Raft*, **55**: 8
- Jameson, R.J., K.W. Kenyon, S. Jeffries and G.R. VanBlaricom. (1986).** Status of a translocated sea otter and its habitat in Washington. *Murrelet*, **67**: 84-87.
- Jameson, R., K.W. Kenyon, A.M. Johnson, and H.M. Wright. (1982).** The history and status of translocated sea otter populations in North American. *Wildlife Society Bulletin*, **10**: 100-107.
- Jameson, R.J., A.M. Johnson, and K.W. Kenyon. (1975).** Maternal behavior and pup ontogeny of captive sea otters. Proceedings 1st Biennial Conference on Marine Mammals. Santa Cruz, California. Page 41.
- Jarman, W.M., C.E. Bacon, J.A. Estes, M. Simon, and R.J. Norstrom. (1996).** Biology and status of the southern sea otter: Organochlorine contaminants in sea otters - The sea otter as a bio-indicator. *Endangered Species UPDATE Special Issue*. **13**(12): 20-22.
- Javeed, N., J. Foley, A. Oliver-Guimera, V.K. Affolter, M.K. Keel, A. Reed, R. Pesapane, P.J. Duignan, M. Murray, M.T. Tinker, and M.A. Miller. (2021).** Demodectic mange in threatened southern sea otters (*Enhydra lutris nereis*). *Veterinary Dermatology*, **32**(3): 211-e55. <https://doi.org/10.1111/vde.12947>
- Jeffries, S., D. Lynch, and S. Thomas. (2016).** Results of the 2016 survey of the reintroduced sea otter population in Washington state. Unpublished Report. 9pp. Copies may be obtained from the Washington Department of Fish and Wildlife or U.S. Fish and Wildlife Service's Washington Fish and Wildlife Office.
- Jenkins, M. (2016).** Investigating the mechanism by which southern sea otters (*Enhydra lutris nereis*) facilitate the invasion of an exotic fouling bryozoan. *California Polytechnic State University*, San Luis Obispo, California. Cal Poly Digital Commons website.
- Jenness, R., T.D. Williams, and R.J. Mullin. (1981).** Composition of milk of the sea otter (*Enhydra lutris*). *Comparative Biochemistry and Physiology A*, **70**(3): 375-379.
- Jessup, D.A., L.C. Yeates , S. Toy-Choutka, D. Casper, M.J. Murray, and M.H. Ziccardi. (2012).** Washing oiled sea otters. *Wildlife Society Bulletin*, **36**:6-15.
- Jessup, D.A, and M.A. Miller. (2012).** Southern sea otters as sentinels for land-sea pollution. Chapter 23. In: **Aguirre, A., R.S. Ostfeld, and P. Daszak. (eds.). Conservation Medicine: Applied Cases of Ecological Health**. Oxford University Press, NY, 10016.
- Jessup, D.A. and M.A. Miller. (2011).** The Trickle-down effect: How cat pathogens harm sea otters. In: *Wildlife Professional. In focus: The impacts of free-roaming cats*, **6**(1): 64-66.
- Jessup, D.A., C.K. Johnson, J. Estes, D. Carlson-Bremer, W.M. Jarman, S. Reese, E.M. Dodd, M.T Tinker and M.H. Ziccardi. (2010).** Persistent organic pollutants in the blood of free-ranging sea otters (*Enhydra lutris* spp.) in Alaska and California. *Journal of Wildlife Disease*, **46**:1214-1233.
- Jessup, D.A. and M.E. Grigg. (2009).** Ultrastructural and molecular confirmation of the development of *Sarcocystis neurona* tissue cysts in the central nervous system of southern sea otters (*Enhydra lutris nereis*). *International Journal for Parasitology*, **39**(12): 1363-1372.
- Jessup, D.A, M.J. Murray, D.R. Casper, D. Brownstein, and C. Kreuder-Johnson. (2009).** Canine distemper vaccination is a safe and useful preventive procedure for southern sea otters (*Enhydra lutra nereis*). *Journal of Zoo and Wildlife Medicine*, **40**(4): 705-710.
- Jessup, D.A. and M.H. Ziccardi. (2009).** Getting out the oil, twenty years after Exxon Valdez, new ways to treat oiled sea otters. *Wildlife Professional*, **3**(2): 36-40.
- Jessup, D.A., M.A. Miller, C. Kreuder-Johnson, P.A. Conrad, M.T. Tinker, J. Estes et al. (2007).** Sea otters in a dirty ocean. *Journal of the American Veterinary Medical Association*, **231**: 1648–1652.

- Jessup, D.A., M.A. Miller, M. Harris, B.B. Hatfield, and J.A. Estes. (2004).** The 2003 southern sea otter (*Enhydra lutris nereis*) unusual mortality event: A preliminary report to NOAA and USFWS. Unpublished report. 38 pp.
- Jessup, D., M. Harris, C. Kreuder, J. Ames, P. Conrad, and M. Miller. (2004).** Southern sea otter as a sentinel of marine ecosystem health. *EcolHealth*, **40**(2): 239-245.
- Jessup, D.A., J.A.K. Mazet, and J. Ames. (1996).** The role of rehabilitation and captive management in sea otter conservation: Oiled wildlife care for sea otters and other marine animals in California: A government, university, private sector, non-profit cooperative. *Endangered Species UPDATE Special Issue*, **13**(12): 53-56.
- Johnson, A.B., and K.A. Mayer. (2015).** The value of rescuing, treating, and releasing live-stranded sea otters. pp. 235-255. In: **Larson, S.E., G.R. VanBlaricom, and J.L. Bodkin (eds.)**. *Sea Otter Conservation*. Academic Press, Boston.
- Johnson, A.M. (1982a).** Status of Alaska sea otter populations and developing conflicts with fisheries. *Transactions of the North American Wildlife and Natural Resources Conference*, **47**: 293-299.
- Johnson, A.M. (1982b).** The sea otter (*Enhydra lutris*). pp. 521-525. In: Mammals in the seas: Small cetaceans, seals, sireneans, and otters. Food and Agriculture Organization of the United Nations. *Fisheries Series*, **5**(4): 525-531.
- Johnson, C.K., M.T. Tinker, J.A. Estes, P.A. Conrad, M. Staedler, M.A. Miller, D.A. Jessup, and J.A.K. Mazet. (2009).** Prey choice and habitat use drive sea otter pathogen exposure in a resource-limited coastal system. *Proceedings of the National Academy of Sciences*, **106**: 2242-2247.
- Johnson, M.L. (1972).** The sea otter in captivity. pp. 17-24. In: **Seed, A (ed.)**. Sea otter in eastern North Pacific waters. *Pacific Search*, 37 pp.
- Johnson, M.L., K.W. Kenyon, and C. Brosseau. (1967).** Notes on a captive sea otter (*Enhydra lutris*). *International Zoo Yearbook*, **7**: 208-209.
- Johnson, S.P., C.L. Field, M. Harris, D. Kramer, J. O'Hern, M. Murray, P.J. Duignan, S. Whoriskey, H. Harris, M. Langan, T. Norris, D. Zahniser, C. Young, K. Kruse-Elliott, S.E. Dennison, M. Miller, and M. Horning. (2018).** Diagnosis and post-release monitoring of two southern sea otters (*Enhydra lutris nereis*) affected by domoic acid toxicosis. *International Association of Aquatic Animal Medicine (IAAAM)*. Annual Meeting and Conference, May 19-23.2018. Long Beach, California
- Jones, B.A. and D.P. DeMaster. (2001).** Survivorship of captive southern sea otters. *Marine Mammal Science*, **17**(2): 414-418.
- Jones, S.J., M. Haulena, G.A. Taylor, S. Chan, S. Bilobram, R.L. Warren, S.A. Hammond, K.L. Mungall, C. Choo, H. Kirk, P. Pandoh, A. Ally, N. Dhalla, A.K.Y. Tam, A. Troussard, D. Paulino, R.J.N. Coope, A.J. Mungall, R. Moore, Y. Zhao, I. Birol, Y. Ma, M. Marra, and S.J.M. Jones. (2017).** The Genome of the northern sea otter (*Enhydra lutris kenyoni*).. *Genes (Basel)*, **8**(12): 379. <http://dx.doi.org/10.3390/genes8120379>
- Jones, T.L., B.J. Culbertson, S. Larson, S. Mellinger, and J.F. Porcasi. (2011).** Toward a prehistory of the southern sea otter (*Enhydra lutris nereis*). pp. 243-271. In: **Brale, T.J. and T.C. Rick (eds.)**. Human impacts on seals, sea lions, and sea otters: Integrating archeology and ecology in the northeast Pacific. New York, NY: *University of California Press*.
- Joseph, B.E., T.R. Spraker, and, G. Migaki. (1990).** Valvular endocarditis in a northern sea otter (*Enhydra lutris*). *Journal of Zoo and Wildlife Medicine*, **21**: 88-91.
- Joseph, B.E. and T.R. Spraker, (1989).** Acute fatal pharyngitis in a California sea otter (*Enhydra lutris*). *International Association for Aquatic Animal Medicine (IAAAM)*
- Joseph, B.E., L.H. Cornell, and T. Williams. (1987).** Chemical sedation of sea otters (*Enhydra lutris*). *The Journal of Zoo Animal Medicine*, **18**(1): 7-13.
- Joseph, B.E. and T.R. Spraker. (1989).** Acute fatal pharyngitis in a California sea otter (*Enhydra lutris*). Proceedings 20th International Association of Aquatic Animal Medicine (IAAAM) Conference, San Antonio, Texas. Pages 90-92.
- Jones, Jr., R.D. (1965).** Sea otters in the Near Islands, Alaska. *Journal of Mammalogy*, **46**: 702.

K

- Kannan, K.E., E. Perrotta, and N.J. Thomas. (2006).** Association between perflurorinated compounds and pathological conditions in southern sea otters. *Environmental Science & Technology*, **40**: 4943-4948.
- Kannan, K. E. Perrotta, N.L. Thomas, and K.M. Aldous. (2007).** A comparative analysis of polybrominated diphenyl ethers and polybrominated biphenyls in southern sea otters that died of infectious diseases and noninfectious causes. *Archives of Environmental Contamination and Toxicology*, **53**: 293-302.
- Kannan, K. and E. Perrotta. (2008).** Polycyclic aromatic hydrocarbons (PAHs) in livers of California sea otters. *Chemosphere*, **71**: 649–655.
- Kannan, K., H. Nakata, N. Kajiwara, M. Watanabe, N.J. Thomas, D.A. Jessup, and S. Kanabe. (2003).** Profiles of polychlorinated biphenyl congeners, organochlorine pesticides and butyltins in southern sea otters and their prey: Implications for PCB metabolism. *Environmental Toxicology and Chemistry*, **23**(1): 49-56.
- Kannan, K., T. Agusa, E. Perrotta, N. J. Thomas, and S. Tanabe. (2006).** Comparison of trace element concentrations in livers of diseased, emaciated and non-diseased southern sea otters from the California coast. *Chemosphere*, **65**: 2160-2167.
- Kannan, K., H. B. Moon, S. H. Yun, T. Agusa, N. J. Thomas, and S. Tanabe. (2008).** Chlorinated, brominated, and perfluorinated compounds, polycyclic aromatic hydrocarbons and trace elements in livers of sea otters from California, Washington, and Alaska (USA), and Kamchatka (Russia). *Journal of Environmental Monitoring*, **10**: 552–558
- Kannan, K., K.S. Guruge, N.J. Thomas, S. Tanabe, and J.P. Giesy. (1998).** Butyltin residues in southern sea otters (*Enhydra lutris nereis*) found dead along California coastal waters. *Environmental Science and Technology*, **32**: 1169-1175.
- Kenyon, K.W. (1982).** Sea otter. pp. 704-710. In: **Chapman, J.A. and G.A. Feldhamer (eds.).** Wild mammals of North America: Biology, management, and economics. *Johns Hopkins University Press*, Baltimore, Maryland. 1147 pp.
- Kenyon, K.W. (1969).** The sea otter in the eastern Pacific Ocean. *North American Fauna*, Number 68. 352 pp.
- Kenyon, K.W., C.E. Yunker, and I.M. Newell. (1965).** Nasal mites (*Halarachnidae*) in the sea otter. *Journal of Parasitology*, **51**(6): 960.
- Kilmer, F.H. (1972).** A new species of sea otter from the Pleistocene of northwestern California. *Bulletin of the South California Academy of Science*, **71**: 150-157.
- Kim, J.H., B.H. Kim, J.H. Kim, M.J. Yoo, and D.Y. Kim. (2002).** Lymphosarcoma in a sea otter (*Enhydra lutris*). *Journal of Wildlife Diseases*, **38**(3): 616-617.
- Kirkpatrick, C.M., D.E. Stulken, and R.D. Jones, Jr. (1955).** Notes on captive sea otters. *Journal of Arctic Institute of North America*, **8**(1): 46-59.
- Kone, D.V., M.T. Tinker, and L.G. Torres. (2021).** Informing sea otter reintroduction through habitat and human interaction assessment. *Endangered Species Research*, **44**: 159-176.
- Kooyman, G.L. and D.P. Costa. (1979).** Effects of oiling on temperature regulation in sea otters. Yearly Progress Report. Outer Continental Shelf Energy Assessment Program.
- Kornev, S.I. and S.A. Korneva. (2006).** Some criteria for assessing the state and dynamics of sea otter (*Enhydra lutris*) populations in the Russian part of the species range. *Russian Journal of Ecology*, **37**: 172–179.
- Kreuder, C, M.A. Miller, L.J. Lowenstein, M.D. Harris, J.A. Ames, T.E. Carpenter, P.A. Conrad, and J.A.K. Mazet. (2003).** Patterns of mortality in southern sea otters (*Enhydra lutris*) from 1998-2001. *Journal of Wildlife Diseases*, **39**: 495-509.
- Kreuder, C. M.A. Miller, L.J. Lowenstein, P.A. Conrad, T.E. Carpenter, D.A. Jessup, and J.A.K. Mazet. (2005).** Evaluation of cardiac lesions and risk factors associated with myocarditis and dilated cardiomyopathy in southern sea otters (*Enhydra lutris nereis*). *American Journal of Veterinary Research*, **66**: 289-299.
- Kreuder, C. M., M.A. Miller, L.J. Lowenstine, P.A. Conrad, T.E. Carpenter, D.A. Jessup et al. (2005).** Evaluation of cardiac lesions and risk factors associated with myocarditis and dilated

- cardiomyopathy in southern sea otters (*Enhydra lutris nereis*). *American Journal of Veterinary Research*, **66**: 289-299.
- Kreuder, C., M.A. Miller, D.A. Jessup, L.J. Lowenstein, M.d. Harris, J.A. Ames, T.E. Carpenter, P.A. Conrad, and J.A.K. Mazet.** (2003). Patterns of mortality in southern sea otters (*Enhydra lutris nereis*) from 1998-2001. *Journal of Wildlife Diseases*, **39**(3): 495-509.
- Kruuk, H., U. Glimmerveen, and E. Ouwerkerk.** (1985). The effects of water depth on otter foraging in the sea. *Institute of Terrestrial Ecology Annual Report*, **1984**: 112-115.
- Kuker, K. and L. Barrett-Leonard.** (2010). A re-evaluation of the role of killer whales (*Orcinus orca*) in a population decline of sea otters (*Enhydra lutris*) in the Aleutian Islands and a review of alternative hypotheses. *Mammal Review*, **40**(20): 103-124.
- Kvitek, R.G., A.R. DeGange, and M.k. Beitler.** (1991). Paralytic shellfish poisoning toxins mediate feeding behavior of sea otters. *Limnology and Oceanography*, **36**: 393-404.
- Kvitek, R.G., C.E. Bowlby, and M. Staedler.** (1993). Diet and foraging behavior of sea otters in southeast Alaska. *Marine Mammal Science*, **9**(2): 168-181
- Kvitek, R., and J. Oliver.** (1992). Influence of sea otters on soft-bottom prey communities in southeast Alaska. *Marine Ecology Progress Series*, **82**: 103-113.
- Kvitek, R., J. Oliver, A, DeGange, and B. Anderson.** (1992). Changes in Alaskan soft-bottom prey communities along a gradient in sea otter predation. *Ecology*, **73**: 413-428.
- Kvitek, R.G., A.K. Fukayama, B.S. Anderson, and B.K. Grimm.** (1988). Sea otter foraging on deep-burrowing bivalves in a California coastal lagoon. *Marine Biology*, **98**(2): 157-167

L

- Lafferty, K.D. (2015).** Sea otter health: Challenging a pet hypothesis. *International Journal of Parasitology: Parasites and Wildlife*, **4**(3): 291-294.
- Lafferty, K.D. and M.T. Tinker.** (2014). Sea otters are recolonizing southern California in fits and starts. *Ecosphere*, **5**: 50.
- Law, C.J., C. Young, and R.S. Mehta.** (2016). Ontogenetic scaling of theoretical bite force in Southern Sea Otters (*Enhydra lutris nereis*). *Physiological and Biochemical Zoology*, **89**(5): 347-363.
- Laidre, K.L., R.J. Jameson, and D.P. DeMaster.** (2001). An estimation of carrying capacity for sea otters along the California coast. *Marine Mammal Science*, **17**: 294-309.
- Laidre, K.L., R.J. Jameson, E. Gurarie, S.J. Jeffries, and H. Allen.** (2009). Spatial habitat use patterns of sea otters in coastal Washington. *Journal of Mammalogy*, **90**: 906-917.
- Laidre, K., R.J. Jameson, S.J. Jeffries, and E. Gurarie.** (2011). Updated estimates of carrying capacity for sea otters in Washington state. Unpublished final contract report, 12 pp. + appendix
- Lance, M.M., S.A. Richardson, and H. Allen.** (2004). State of Washington sea otter recovery plan. WDFW, Olympia WA. 91 pp.
- Lander, M.E., A.J. Westgate, R.K. Bonde, and M.J. Murray.** (2001). Tagging and Tracking. pp 851-880. In: **Dierauf, L. and F.M.D. Gulland (eds.)**. *CRC Handbook of Marine Mammal Medicine*. CRC Press.
- LePage, M. (2021).** Sea otters use muscles to chemically generate heat without shivering. *New Scientist*. <https://www.newscientist.com/article/2283472-sea-otters-use-muscles-to-chemically-generate-heat-without-shivering/>
- LaRoche, N.L., S. King, M.C. Rogers, G.I. Echert, and H.C. Pearson.** (2021). Behavioral observation and stable isotopes reveal high individual variation and little season variation in seasonal diets of sea otters in southeast Alaska. *Marine Ecology Progress Series*. <https://doi.org/10.3354/meps13871>
- Larson, S., R.B. Gagne, J. Bodkin, M. J. Murray, K. Ralls, L. Bowen, R. Leblois, S. Piry, M.C. Penedo, M.T. Tinker, and H.B. Ernest.** (2021). Translocations maintain genetic diversity and increase connectivity in sea otters (*Enhydra lutris*). *Marine Mammal Science*. <https://doi.org/10.1111/mms.12841>

- Larson, S., T. Belting, K. Rifenbury, G. Fisher, and S.M. Boutelle. (2013).** Preliminary findings of fecal gonadal hormone concentrations in six captive sea otters (*Enhydra lutris*) after deslorelin implantation. *Zoo Biology*, **32**(3): 307-315.
- Larson, S.D., Z.N. Hoyt, G.L. Eckert, and V.A. Gill. (2013).** Impacts of sea otter predation on commercially important sea cucumbers (*Parastichopus californicus*) in southeast Alaska. *Canadian Journal of Fisheries and Aquatic Sciences*, **70**:1498-1507.
- Larson, S. R., M. Jameson, T. Etnier, T. Jones, and R. Hall. (2012).** Genetic diversity and population of sea otters (*Enhydra lutris*) before fur trade extirpation from 1741-1911. *PLoS One*, **7**: 1-10.
- Larson, S., D. Monson, B. Ballachey, R. Jameson, and S.K. Wasser. (2009).** Stress-related hormones and genetic diversity in sea otters (*Enhydra lutris*). *Marine Mammal Science*, **25**(2): 351-372.
- Larson, S., R. Jameson, J. Bodkin, M. Staedler, and P. Bentzen. (2002).** Microsatellite DNA and mitochondrial DNA variance in remnant and translocated sea otter (*Enhydra lutris*) populations. *Journal of Mammalogy*, **83**: 893-906.
- Larson, S., R. Jameson, M. Etnier, M. Fleming, and P. Bentzen. (2002).** Loss of genetic diversity in sea otter (*Enhydra lutris*) associated with the fur trade of the 18th and 19th centuries. *Molecular Ecology*, **11**: 1899-1903.
- Law, C.J., C. Young, and R.S. Mehta. (2017).** Ontogenetic scaling of theoretical bite force in southern sea otters (*Enhydra lutris nereis*). University of California, Santa Cruz; California Department of Fish and Wildlife.
- Law, C.J., C. Young, and R.S. Mehta. (2016).** Sexual dimorphism in craniomandibular morphology of sea otters (*Enhydra lutris nereis*). *Journal of Mammalogy*, **97**: 1764-1773.
- Lee, B., B.A. Byrne, M.A. Young, M. Murray, and M.A. Miller and L. Tell. (2016).** Pharmacokinetic indices for cefovecin after single-dose administration to adult sea otters (*Enhydra lutris*). *Journal of Veterinary Pharmacology and Therapeutics*, **39**(6): 625-628.
- Lensink C. J. (1962).** The history and status of sea otters in Alaska. Ph.D. thesis, *Purdue University*, West LaFayette, Indianapolis, Indiana. 188 pp.
- Lensink, C.J. (1960).** Status and distribution of sea otters in Alaska. *Journal of Mammalogy*, **41**:172-182.
- Leon, V. (1988).** A raft of sea otters: An affectionate portrait. San Luis Obispo, California: Blake Publishing.
- Levin, M., D. Joshi, A. Draghi 2nd, F.M. Gulland, D. Jessup, and S. De Guise. (2010).** Immunomodulatory effects upon in vitro exposure of California sea lion and southern sea otter peripheral blood leukocytes to domoic acid. *Journal of Wildlife Diseases*, **46**(2): 541-50.
- Levin, M., H. Leibrecht, C. Mori, D. Jessup, and S. De GUISE. (2007).** Immunomodulatory effects of organochlorine mixtures upon in vitro exposure of peripheral blood leukocytes differ between free-ranging and captive southern sea otters (*Enhydra lutris*). *Veterinary Immunology and Immunopathology*, **119**: 269-277.
- Li, Z.N., H.S. Ip, J.F. Trost, C.L. White, M.J. Murray, P.J. Carney, X-J. Sun, J. Stevens, M.Z. Levine, and J.M. Katz. (2014).** Serologic evidence of influenza A(H1N1)pdm09 virus infection in northern sea otters. *Emerging Infectious Diseases*, **20**(5): 915-917.
- Lidicker, W.Z. and F.C. McCollum. (1981).** Genetic differentiation of sea otter populations. Fourth Biennial Conference on the Biology of Marine Mammals, December 14-18, San Francisco, California.
- Lieske D., N. Vapniarsky, F.J.M. Verstraete, D.M. Leale, C. Young, and B. Arzi (2015).** Characterization of the Temporomandibular Joint of Southern Sea Otters (*Enhydra lutris nereis*). *Frontiers in Veterinary Science*, **2**: 71. <https://doi.org/10.3389/fvets.2015.00071>
- Limbaugh, C. (1961).** Observations on the California sea otter. *Journal of Mammalogy*, **42**: 271-273.
- Lindsey, J.K. (2016).** Estuarine habitat use by the California sea otter (*Enhydra lutris*). M.S. Thesis. *San Jose State University*. San Jose, California.
- Lipscomb, T.P., R.K. Harris, A.H. Rebar, B.E. Bellachey, and R. Haebler. (1996).** Pathological studies of sea otters, Exxon Valdez Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study 6-11), U.S. Fish and Wildlife Service, Anchorage, Alaska.

- Lipscomb, T.P., R.K. Harris, A.H. Rebar, B.E. Ballachey, and R.J. Haebler. (1994).** Pathology of sea otters. pp. 265-280. In: **Loughlin, T.R. (ed).** Marine mammals and the Exxon Valdez. Academic Press. San Diego.
- Lipscomb, T.P., R.K. Harris, R.B. Moeller, J.M. Pletcher, R.J. Haebler, and B.E. Ballachey. (1993).** Histopathologic lesions in sea otters exposed to crude oil. *Veterinary Pathology*, **30**(1): 1-11.
- Lockwood, S. (2006).** Sea Otters. Minnesota: Chanhassen.
- Long, J.A., S. E. Larson, and S.K. Wasser. (1996).** The role of rehabilitation and captive management in sea otter conservation: Safeguarding diversity-challenges in developing a genome resource bank for California sea otter. *Endangered Species UPDATE Special Issue*, **13**(12): 57-60.
- Loughlin, T.R., J.A. Ames, and J.E. Vandevere. (1981).** Annual reproduction, dependency period, and apparent gestation period in two California sea otters (*Enhydra lutris*). *NOAA Fisheries Bulletin*, **79**: 347-349.
- Loughlin, T.R. (1980a).** Home range and territoriality of sea otters near Monterey, California. *Journal of Wildlife Management*, **44**: 576-582.
- Loughlin, T. R. (1980b).** Radio telemetric determination of feeding activities of sea otters (*Enhydra lutris*). pp 717-724. In: **Adaner Jr., C.J. and D. W. MacDonald. (eds).** *A Handbook on Biotelemetry and Radio Tracking*. Pergamon Press, Oxford.
- Loughlin, T.R. (1978).** A telemetric and tagging study of sea otter activities near Monterey, California, Final Report to U.S. Marine Mammal Commission, contract MM6AC024. N.T.I.S. Publication PB-289682:1-64.
- Loughlin, T.R. (1977).** Activity patterns, habitat partitioning and grooming behavior of the sea otter in California. Ph.D. Thesis. *University of California*, Los Angeles.
- Louis, E.D., M.J. Murray, M.A. Miller, S.L. Pullman, and J.P. Vonsattel. (2004).** Late-life action tremor in a southern sea otter (*Enhydra lutris nereis*). *Journal of Movement Disorders*, **19**(2): 222-226.
- Lourn T.R. (1979).** Radio telemetric determination of the 24-hour feeding activities of sea otters (*Enhydra lutris*). pp.717-724. In: **Amlaner, C.J. and D.W. MacDonald (eds.). A Handbook on Biotelemetry and Radiotracking**. Pergamon Press. New York, New York. 804 pp.
- Lyons, K. J. (1989).** Individual variation in diet in the female California sea otter. *American Zoologist*, **29**(4): A137-A137.

M

- Maender, G., Estes, J., and B. Hatfield (2004).** California sea otter numbers climb for second consecutive year. USGS. NEWS RELEASE. June 16, 2004.
- Maldini, D., R. Scoles, R. Eby, M. Cotter, and R.W. Rankin. (2012).** Patterns of sea otter haul-out behavior in a California tidal estuary in relation to environmental variables. *Northwest Naturalist*, **93**(1): 67-78.
- Mamaev, E.G. (2018).** Present status of the sea otter (*Enhydra lutris L*) population on the Commander Islands., pp. 32-39. In: **Shpak, O.V., O.A. Filatova, D.M. Glazov, V.N. Burkanov, S.E. Belikov, N.V. Kryukova, O.A. Demidova et al. (Eds)** *Marine Mammals of the Holarctic*, Vol.2. ST Print Publisher, Arkhangelsk, Russia.
- Mandi, D.A. (2020).** Trophic ecology of northern sea otter (*Enhydra lutris*) in southcentral and southwest Alaska utilizing stable isotope ratios. M.S. Thesis, *Nova Southwestern University*. Ft. Lauderdale, Florida.
- Marine Mammal Protection Act: Stock Assessment Report. (2012).** A notice by the by the Fish and Wildlife Service on 05/09/2012 Federal Register.
- Marshall, C. D., K. Rozas, B. Kot, and V.A. Gill. (2014).** Innervation patterns of sea otter (*Enhydra lutris*) mystical follicle-sinus complexes. *Frontiers in Neuroanatomy*, **8**: 1-8.
- Marzin, C.G. (1996).** Alternative management options for the California sea otter population: An interdisciplinary approach. M.S. thesis, *University of Washington*, Seattle, Washington. 85 pp.

- Marzin, C.G. and D.P. DeMaster.** (1992). Estimating the carrying capacity of sea otters (*Enhydra lutris*) along the California coast. Appendix D in U.S. Fish and Wildlife Service. Southern sea otter recovery plan, 1996 draft. 41pp.
- Mason, C.F. (1989).** Water pollution and otter distribution: A. Review. *Lutra*, **32**(2): 97-131.
- Mason, C.F. and S.M. Macdonald.** (1986). *Otters: Ecology and Conservation*. London. Cambridge University Press.
- Mattison Jr., J.A., and R.C. Hubbard.** (1969). Autopsy findings on thirteen sea otters (*Enhydra lutris nereis*) with correlations with captive animal feeding and behavior. Proceedings 6th Annual Conference of Biological Sonar and Diving Mammals, *Stanford Research Institute*. Palo Alto, California. pp. 99-101.
- May, A.G. (1943).** The northern sea otter. *Natural History*, **52**: 22-23.
- Mayer, K.A., M.D. Dailey, and M.A. Miller.** (2003). Helminth parasites of the southern sea otter (*Enhydra lutris nereis*) in central California: Abundance, distribution, and pathology. *Diseases of Aquatic Organisms*, **53**: 77-88.
- Mazet, J., I. Gardner, D. Jessup, L. Lowenstine, and W. Boyce.** (2000). Evaluation of changes in hematologic and clinical biochemical values after exposure to petroleum products in mink (*Mustela vison*) as a model for assessment of sea otters (*Enhydra lutris*). *American Journal of Veterinary Research*, **61**:1197-1203.
- Mazet, J.A.K., I. Gardner, D. Jessup, and L. Lowenstine.** (2001). Effects of petroleum on mink applied as a model for reproductive success in sea otters. *Journal of Wildlife Diseases*, **37**(4): 686-692.
- McBain, J. (1990).** Otters and oil don't mix. *Zoo Life*, Fall.
- McClehan, K. and J.A. Ames.** (1976). A unique method of prey capture by a sea otter (*Enhydra lutris*). *Journal of Mammalogy*, **57**(2): 410-412.
- McDermott, A.J., T. Clauss, S. Sakals, J. Mejia, and M.G. Radlinsky.** (2013). Modified-closed castration: A novel technique for sea otter (*Enhydra lutris nereis*) orchietomies. *Journal of Zoo and Wildlife Medicine*, **44**(3): 786-789.
- McShane, L., J. Estes, M. Riedman, and M. Staedlar.** (1995). Repertoire, structure, and individual variation of vocalizations in the sea otter. *Journal of Mammalogy*, **76**: 414-427.
- Merriam, C.H. (1904).** A new sea otter from southern California. *Proceedings of the Biological Society of Washington*, **17**: 159-160.
- Miles, A.K., L. Bowen, B. Ballachey, J.L. Bodkin, M. Murray, J. L. Estes, R.A. Keister, and J.L. Stott.** (2012). Variations of transcript profiles between sea otters (*Enhydra lutris*) from Prince William Sound, Alaska, and clinically normal reference. *Marine Ecology Progress Series*, **451**: 201-212.
- Miller M.A., S. Jang, B. Byrne, E. Dodd, E. Dorfmeier, M. Harris, J. Ames, D. Paradies, K. Worcester, D.A. Jessup, and W.A. Miller.** (2010). Exposure to heavy freshwater runoff and dense coastal human populations are significant risk factors for enteric bacterial pathogen infection in California sea otters (*Enhydra lutris nereis*). *Veterinary Research*, **41**:01
- Miller, D. (1974).** Skindivers, abalone, and sea otters. *Outdoor California*, **35**: 1-4.
- Miller, D.J. (1980).** The sea otter in California. pp. 79-81. In *The California cooperative oceanic fish investigation report*. Volume XXI.
- Miller, M. A., M.E. Moriarty, L. Henkel, M.T. Tinker, T. Burgess, and F.I. Batac.** (2020). Predators, disease, and environmental change in the nearshore ecosystem: Mortality in southern sea otters (*Enhydra lutris nereis*) from 1998-2012. *Frontiers in Marine Science*, **7**:582. <https://doi.org/10.3389/fmars.2020.00582>
- Miller, M., Dodd, E., Batac, F., Young, C., Harris, M., Henkel, L. (2015).** Summary of southern sea otter mortality investigations in 2014. California Department of Fish and Wildlife Office of Spill Prevention and Response Technical Report 15-1.
- Miller, M., E. Dodd, M. Ziccardi, D. Jessup, D. Crane, C. Dominik, R. Spies, and D. Hardin.** (2007). Persistent organic pollution concentrations in southern sea otters (*Enhydra lutris nereis*): Patterns with respect to environmental risk factors and major causes of mortality. *California Regional Water Quality Control Board: Region 3*. San Luis Obispo, California.

- Miller, M., P. Conrad, E.R. James, A. Packham, S. Toy-Choutka, M.J. Murray, D. Jessup, and M. Grigg. (2008).** Transplacental toxoplasmosis in a wild southern sea otter (*Enhydra lutris nereis*). *Veterinary Parasitology*, **153**(1-2):12-8.
- Miller, M.A., T.L. Burgess, E.M. Dodd, J.C. Rhyan, S.S. Jang, B.A. Byrne, F.M. Gulland, M.J. Murray, S. Toy-Choutka, P.A. Conrad, C.L. Field, I.F. Sidor, and W.A. Smith. (2017).** Isolation and characterization of a novel marine brucella from a southern sea otter (*Enhydra lutris nereis*), California, USA. *Journal of Wildlife Diseases*, **53**(2): 215-227.
- Miller, M.A., M.E. Moriarty, P.J. Duignan, T.S. Zabka, E. Dodd, F.I. Batac, C. Young, A. Reed, M.D. Harris, K. Greenwald, R.M. Kudela, M.J. Murray, F.M.D. Gulland, P.E. Miller, K. Hayashi, C.T. Gunther-Harrington, M.T. Tinker, and S. Toy-Choutka. (2021).** Clinical signs and pathology associated with domoic acid toxicosis in southern sea otters (*Enhydra lutris nereis*). *Frontiers in Marine Science*, **8**. <https://doi.org/10.3389/fmars.2021.585501>
- Miller, M.A., P.J. Duignan, E. Dodd, F. Batac, M. Staedler, J.A. Tomoleoni, M. Murray, H. Harris, and C. Gardiner. (2020).** Emergence of a zoonotic pathogen in a coastal marine sentinel: *Capillaria hepatica* (syn. *Calodium hepaticum*)-Associated hepatitis in southern sea otters (*Enhydra lutris nereis*). *Frontiers in Marine Science*, **7**: 335. <https://doi.org/10.3389/fmars.2020.00335>
- Miller, M.A., B.A. Byrne, S.S. Jang, E.M. Dodd, E. Dorfmeier, M.D. Harris, J. Ames, D. Paradies, K. Worcester, D.A. Jessup, and W.A. Miller. (2010).** Enteric bacterial pathogen detection in southern sea otters (*Enhydra lutris nereis*) is associated with coastal urbanization and freshwater runoff. *Veterinary Research*, **41**(1): 13 pp.
- Miller, M.A., B.C. Barr, R. Nordhausen, E.R. James, S.L. Magargal, M. Murray, P.A. Conrad, S. Toy- Choutka, D.A. Jessup, and M.E. Grigg. (2009).** Ultrastructural and molecular confirmation of the development of *Sarcocystis neurona* tissue cysts in the central nervous system of southern sea otters (*Enhydra lutris nereis*). *International Journal for Parasitology*, **39**(12): 1363-1372.
- Miller, M.A., E. M. Dodd, T. Burgess, M.T. Tinker, F.I. Batac, L.A. Henkel, C. Young, M.D. Harris, and C.K. Johnson. (2018).** The dead do tell tales! Investigating southern sea otter mortality patterns (1998–2012) *Enhydra lutris nereis*. *International Association of Aquatic Animal Medicine (IAAAM)*. Annual Meeting and Conference, May 19-23.2018. Long Beach, California
- Miller, M.A., I.A. Gardner, A. Packham, J.K. Mazet, K.D. Hanni, D. Jessup, J. Estes, R. Jameson, E. Dodd, B.C. Barr, L.J. Lowenstine, F.M. Gulland, and P.A. Conrad. (2002).** Evaluation of an indirect fluorescent antibody test (IFAT) for demonstration of antibodies to *Toxoplasma gondii* in the sea otter (*Enhydra lutris*). *Journal of Parasitology*, **88**(3): 594-599.
- Miller, M.A., I.A. Gardner, C. Kreuder, D.M. Paradies, K.R. Worcester, D.A. Jessup, E. Dodd, M.D. Harris, J.A. Ames, A.E. Packman, and P.A. Conrad. (2002).** Coastal freshwater runoff is a risk factor for *Toxoplasma gondii* infection of southern sea otters (*Enhydra lutris nereis*). *International Journal of Parasitology*, **32**: 997-1006.
- Miller, M.A., M.E. Grigg, C. Kreuder, E.R. James, A.C. Melli, P.R. Crosbie, D.A. Jessup, J.C. Boothroyd, D. Brownstein, and P.A. Conrad, (2004).** An unusual genotype of *Toxoplasma gondii* in common California sea otters (*Enhydra lutris nereis*) and is a cause of Mortality. *International Journal for Parasitology*, **34**: 275-284.
- Miller, M.A., P.R. Crosbie, K. Sverlow, K. Hanni, B.C. Barr, N. Kock, M.J. Murray, L.J. Lowenstine, and P.A. Conrad, (2001).** Isolation and characterization of *Sarcocystis* from brain tissue of a free- living southern sea otter (*Enhydra lutris nereis*) with fatal meningoencephalitis. *Parasitology Research*, **87**(3): 252-257.
- Miller, M.A., R.M. Kudela, A. McKebri, D. Crane, S.C. Oates, M.T. Tinker, M. Staedler, W.A. Miller, S. Toy-Choutka, C. Domink, D. Hardin, G. Langlois, M. Murray, K. Ward, and D.A. Jessup. (2010).** Evidence for a novel harmful alga bloom: Cyanotoxin (Microcystin) transfer from land to sea otters. *PLoS ONE* **5**:e12576.
- Miller, M.A., W.A. Miller, P.A. Conrad, E.R. James, A.C. Melli, C.M. Leutenegger, H.A. Dabritz, A.E. Packman, D. Paradies, M. Harris, J. Ames, D.A. Jessup, K. Worcester, and M.E. Grigg. (2008).** Type X *Toxoplasma gondii* in a wild mussel and terrestrial carnivores from

- coastal California: New linkages between terrestrial mammals, runoff and Toxoplasmosis of sea otters. *International Journal of Parasitology*, **38**: 1319-1328.
- Miller, M.A., P.A Conrad, M. Harris, B. Hatfield, G. Langlois, D.A Jessup, S.L Magargal, A.E.P. Packman, S. Toy-Choutka, A.C. Melli, M.A. Murray, F.M. Gulland, and M.E. Grigg. (2010).** A protozoal-associated epizootic impacting marine wildlife: Mass-mortality of southern sea otters (*Enhydra lutris nereis*) due to *Sarcocystis neurona* infection. *Veterinary Parasitology*, **172**(3-4):183-94.
- Monnett, C. and L. Rotterman. (1992).** Movements of weaning and adult female sea otters in Prince William Sound, Alaska, after the T/V Exxon Valdez oil spill. Report. 33 pp.
- Monnett, C., L.M. Rotterman, C. Stack, and C. Monson. (1990).** Post-release monitoring of radio-instrumented sea otters in Prince William Sound. Pp. 400-420. In: **Bayha K. and J. Kormendy (eds.)**. Sea otter symposium: proceedings of a symposium to evaluate the response effort on behalf of sea otters after the T/V Exxon Valdez oil spill into Prince William Sound, Anchorage, Alaska. *U.S. Fish and Wildlife Service Biological Report*. **90**(12). 126 pp.
- Monnett, C.W. (1988).** Patterns of movement, postnatal development and mortality of sea otters in Alaska. Ph.D. dissertation. *University of Minnesota*, Minneapolis, Minnesota. 134 pp.
- Monson, D. H. (1995).** Reproductive strategies in sea otters at Amchitka Island, Alaska. M.S. thesis. *University of California*, Santa Cruz, California. 60 pp.
- Monson, D. H., C. McCormick, and B. E. Ballachey. (2001).** Chemical anesthesia of northern sea otters (*Enhydra lutris*): Results of past field studies. *Journal of Zoo and Wildlife Medicine*, **32**: 181-189.
- Monson, D.H. and A.R. DeGange. (1995).** Reproduction, preweaning survival, and survival of adult sea otters at Kodiak Island, Alaska. *Canadian Journal of Zoology*, **73**: 1161-1169.
- Monson, D.H., D.F. Doak, B.E. Ballachey, A. Johnson, and J.L. Bodkin. (2000).** Long-term impacts of the Exxon Valdez oil spill on sea otters, assessed through age-dependent mortality patterns. *Proceedings of the National Academy of Sciences*, **97**(12): 6562-6567.
- Monson, D.H., K.A. Estes, J.L. Bodkin, and D.B. Siniff. (2000).** Life history plasticity and population regulation in sea otters. *Oikos*, **90**: 457-468.
- Morejohn, G. V., J.A. Ames, and D.B. Lewis. (1975).** Postmortem studies of sea otters (*Enhydra lutris L.*) in California. *California Department of Fish and Game Marine Resources Technical Report*, **30**: 1-82.
- Moriarty, M. E., M.T. Tinker, M.A. Miller, J.A. Tomoleoni, M.M. Staedler, J.A. Fuji et al. (2021).** Exposure to domoic acid is an ecological driver of cardiac disease in southern sea otters. *Harmful Algae*, **101**:101973. <https://doi.org/10.1016/j.hal.2020.101973>
- Moriarty, M.E., M.A. Miller, M.J. Murray, J.D. Pádraig, C.T. Gunther-Harrington, C.L. Field, L.M. Adams, T.L. Schmitt, and C.K. Johnson. (2021).** Exploration of serum cardiac troponin I as a biomarker of cardiomyopathy in southern sea otters (*Enhydra lutris nereis*). *American Journal of Veterinary Research*, **82**(7): 529-537.
- Morita, T., M. Kishimoto, A. Shimada, Y. Matsumoto, and J. Shindo. (2001).** Disseminated histoplasmosis in a sea otter (*Enhydra lutris*). *Journal of Comparative Pathology*, **125**(2-3): 219-223.
- Morris, R., D.V. Ellis, and B.P. Emerson. (1981).** The British Columbia transplant of sea otters (*Enhydra lutris*). *Biological Conservation*, **20**: 291-295.
- Morrison P, M. Rosenmann, and, J.A. Estes. (1974).** Metabolism and thermoregulation in sea otter. *Physiological and Biochemical Zoology*, **47**(4): 218-229.
- Moxley, J.H., T.E. Nicholson, K.S. Van Houtan, and SJ. Jorgensen (2019).** Non-trophic impacts from white sharks complicate population recovery for sea otters. *Ecology and Evolution*, **9**(11): 6378-6388.
- Mulcahy, D. M. and B. E. Ballachey. (1994).** Hydrocarbon residues in sea otter tissues. pp 313-330. In: **Loughlin, T. R. (ed.)** *Marine Mammals and the Exxon Valdez*. Academic Press, Inc., San Diego, California, pp. 313–330.
- Murata, S., S. Takahashi, T. Agusa, N.J. Thomas, K. Kannan, and S. Tanabe. (2008).** Contamination status and accumulation profiles of organotins in sea otters (*Enhydra lutris*) found dead along the coasts of California, Washington, Alaska (USA), and Kamchatka (Russia). *Marine Pollution Bulletin*, **56**: 641-649.

- Murie, O.J. (1940).** Notes on the sea otter. *Journal of Mammalogy*, **21**: 119-131.
- Murphy, C.J., R.W. Bellhorn, T. Williams, M.S. Burns, F. Schaeffel, and H.C. Howland. (1990).** Refractive state, ocular anatomy, and accommodative range of the sea otter (*Enhydra lutris*). *Vision Research*, **30**(1): 23-32.
- Murray, M.J. (2015).** Veterinary medicine and sea otter conservation. pp. 159-195 In: **Larson, S.E., G.R. VanBlaricom, and J.L. Bodkin (eds.).** *Sea Otter Conservation*. Academic Press, Boston.
- Murray, M.J., M.A. Young, and R.M. Santymire. (2020).** Use of the ACTH challenge test to identify the predominant glucocorticoid in the southern sea otter (*Enhydra lutris nereis*). *Conservation Physiology*, **8**(1): coz116. <https://doi.org/10.1093/conphys/coz116>

N

- Nagle, A. (2018).** Sea urchin and indigenous marine resource management in the archaeological record: Implications for sea otter conservation in coastal British Columbia. Honors Program Department of Anthropology, *University of Victoria*. Victoria , Canada.
- Nakajima, M., A. Furuta, Y. Fujimaki, and J. Yamada. (1988).** Breeding of the northern sea otter (*Enhydra lutris lutris*) at Izu Mito Sea Paradise. *Japanese Association of Zoological Gardens and Aquariums*, **39**(2).
- Nataka, H., K. Kannan, L. Jing, N. Thomas, S. Tanabe, and J.P. Giesy. (1998).** Accumulation pattern of organochlorine pesticides and polychlorinated biphenyls in southern sea otters (*Enhydra lutris nereis*) found stranded along coastal California. USA. *Environmental Pollution*, **103**: 45-53.
- Newby, T.C. (1975).** A sea otter (*Enhydra lutris*) food dive record. *Murrelet*, **56**: 7.
- Newsome, S., M.T. Tinker, V.A. Gill, Z.M. Hoyt, A. Doroff, L. Nichol, J.L. Bodkin. (2015).** The interaction of intraspecific competition and habitat on individual diet specialization: A near range-wide examination of sea otters. *Oecologia*, **178**: 45-59.
- Newsome, S. D., G.B. Bentall, M.T. Tinker, O.T. Oftedal, K. Ralls, J.A. Estes, and M.L. Fogel. (2010).** Variation in $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ diet-vibrissae trophic discrimination factors in a wild population of California sea otters. *Ecological Applications*, **20**(6), 1744-1752.
- Newsome, S.D., M.T. Tinker, D.H. Monson, O.T. Oftedal, K. Ralls, M. Staedler, M.L. Fogel, and J.A. Estes. (2009).** Using stable isotopes to investigate individual diet specialization in California sea otters (*Enhydra lutris nereis*). *Ecology*, **90**: 961-973.
- Ng, T.F., M.A. Miller, N.O. Kondov, E.M. Dodd, F. Batac, M. Manzer, S. Ives, J.T. Saliki, X. Deng, and E.J. Delwart. (2015).** Oral papillomatosis caused by *Enhydra lutris* papillomavirus 1 (EIPV-1) in southern sea otters (*Enhydra lutris nereis*) in California, USA. *Journal of Wildlife Diseases*, **2**(2): 446-53.
- Nicholson, T.E., K.A. Maye, M.M. Staedler, T.O. Gagné, M.J. Murray, M.A. Young, J.A. Tomoleoni, M.T. Tinker, and K.S. Van Houtan. (2020).** Robust age estimation of southern sea otters from multiple morphometrics. *Ecological Evolution*, **10**(16): 8592-8609.
- Nicholson, T.E., K. Mayer, M. Staedler, J. Fujii, M. Murray, A.B. Johnson, M.T. Tinker, and K.S. Houtan. (2018).** Gaps in kelp cover may threaten the recovery of California sea otters. *Ecography*, **41**: 1751-1762.
- Nicholson, T.E., K.A. Mayer, M.M. Staedler, and A.B. Johnson. (2007).** Effects of rearing methods on survival of released free-ranging juvenile southern sea otters. *Biological Conservation*, **138**(3-4): 313-320.
- Nickerson, R. (1994).** Sea Otters. *A Natural History and Guide*. Chronicle Books. San Francisco.
- Nightingale, J.W. (1981).** Essential elements of a successful breeding program with captive sea otters. Proceedings American Zoo Vet Association Conference, Seattle, Washington. Pages 84-86.
- Nightingale, J.W., C. Timmis, and J. Styers. (1979).** Food preference studies with captive sea otters (*Enhydra lutris*) using a comparison matrix. 3rd Biennial Conference of the Biology of Marine Mammals. Seattle, Washington. Page 64.
- Nikolaev, A.M. (1958).** Materialy po biologii kalana ostrova Urup..[Data on biology of the sea otter of Urup island]. *Soobshcheniya Sahalinskogo kompleksnogo nauchno-issledovatel'skogo instituta*, **6**: 171–184. (In Russian)

- Nikulin, V.S., V.V. Vertyankin, and V.V. Fomin. (2008).** Sea otters (*Enhydra lutris* L.) of Commander Islands: Brief story of development of population for 1957–2007. pp. 90-108. In: **Diyakow, Y.P. (ed).** Research of Water Biological Resources of Kamchatka and of the Northwest Part of Pacific Ocean: Selected Papers KamchatNIRO, Vol. 10. Petropavlovsk-Kamchatsky, Russia.
- Norris, K. (1977).** The ecological energetics of the California sea otter (*Enhydra lutris*). *US Fish and Wildlife Service*, Contract #14-16-0008-2047. 57 pp.
- Norstrom, R.J., W.M. Jarman, J.A. Estes, R.G. Anthony, C.E. Bacon, and A. K. Miles. (1997).** Organochlorines in sea otters and bald eagles from the Aleutian archipelago. *Marine Pollution Bulletin*, **34**: 486-490.
- Novak, M. and M.T. Tinker. (2015).** Timescales alter the inferred strength and temporal consistency of intraspecific diet specialization. *Oecologia*, **178**(1): 61-74.

O

- Oates, S.C., M.A. Miller, B.A. Byrne, N. Chouicha, D. Hardin, D. Jessup, C. Dominik, C. Roug, A. Schriewer, S.S. Jang, and W.A. Miller, W. A. (2012).** Epidemiology and potential land-sea transfer of enteric bacteria from terrestrial to marine species in the Monterey Bay Region of California. *Journal of Wildlife Diseases*, **48**(3): 654-668.
- Oates, S. C., M.A. Miller, D. Hardin, P.A. Conrad, A. Melli, D.A. Jessup, C. Dominik, A. Roug, M.T. Tinker, and W.A. Miller. (2012).** Prevalence, Environmental Loading, and Molecular Characterization of *Cryptosporidium* and *Giardia* Isolates from domestic and wild animals along the central California coast. *Applied and Environmental Microbiology*, **78**(24): 8762-8772.
- Odemar, M.W. and K.C. Wilson. (1969).** Results of sea otter capture, tagging and transporting operations by the California Department of Fish and Game. pp. 73-79. In: Proceedings Sixth Annual Conference on Biological Sonar and Diving mammals, *Stanford Research Institute*. Menlo Park, California. 113 pp.
- Oftedal, O.T., K. Ralls, M.T. Tinker, and A. Green. (2008).** Nutritional constraints on the southern sea otter in the Monterey Bay National Marine Sanctuary. In: Joint Final Report to Monterey Bay National Marine Sanctuary (and Monterey Bay Sanctuary Foundation) and the Marine Mammal Commission.
- Ogden, A. (1941).** *The California Sea Otter Trade 1784-1848*. University of California Press, Berkeley, California. 251 pp.
- Osterrieder, S. and R. Davis. (2011).** Sea otter female and pup activity budgets, Prince William Sound, Alaska. *Journal of the Marine Biological Association of the United Kingdom*, **91**(4): 883-892.
- Ostfeld, R.S. (1982).** Foraging strategies and prey switching in the California sea otter. *Oecologia*, **53**(2): 170-178.
- Ovsyanikova, E.N., A.A. Altukhov, L.P. Carswell, and M.C. Kenner. (2020).** Sea otter (*Enhydra lutris*) abundance assessment for the Kuril Island population in Far Eastern Russia. *Marine Mammal Science*, **36**(3): 1001-1009.

P

- Packard, J.M. and C.A. Ribic. (1982).** Classification of the behavior of sea otters (*Enhydra lutris*). *Canadian Journal of Zoology*, **60**: 1362-1373.
- Paine, S. (1993).** *The world of the Sea Otter*. Sierra Club.
- Palmisano, J.F. and J.A. Estes. (1977).** Ecological interactions involving the sea otter. pp. 527-567. In: **Merritt, M.L. and R.G. Fuller (eds.).** The environment of Amchitka Island, Alaska. U.S. ERDA, TID-26712. Springfield, Virginia.
- Pattison, C.A., M.D. Harris, and F.E. Wendell. (1997).** Sea otter (*Enhydra lutris*) mortalities in California, 1968 through 1993. *California Department of Fish and Game Report 97-5*, 48pp.
- Payne, S.F. and R.J. Jameson. (1984).** Early behavioral development of the sea otter (*Enhydra lutris*). *Journal of Mammalogy*, **65**: 527-531.

- Pearse, J.S. (2022).** Long-term monitoring of sea otters from West Beach at Hopkins Marine Station. Stanford University Press
- Pearson, H.C., J.M. Packard, and R.W. Davis. (2006).** Territory quality of male sea otters in Prince William Sound, Alaska: Relation to body and territory maintenance behaviors. *Canadian Journal of Zoology*, **84**:939-946.
- Pesapane, R., E. Dodd, N. Javeed, M. Miller, and J. Foley. (2018).** Molecular characterization and prevalence of *Halarachne halichoeri* in threatened southern sea otters (*Enhydra lutris nereis*). *International Journal of Parasitology: Parasites and Wildlife*, **7**(3): 386-390.
- Pietz, P., K. Ralls, and L. Fem. (1988).** Age determination of California sea otters from teeth. Chapter 6. In: **Siniff, D.B. and K. Ralls (eds.)**, editors. Population status of California sea otters. *Minerals Management Service*, Contract Report No.14-12-001-30033.
- Poll, C.P., K.N. Tang, M.R. O'Connor, and W.G. Van Bonn. (2018).** Case Series: Uterine Leiomyomas in collection northern (*Enhydra lutris lutris*) and Alaska sea otters (*Enhydra lutris kenyoni*). *International Association of Aquatic Mammal Medicine (IAAAM)*. Annual Meeting and Conference, May 19-23.2018. Long Beach, California.
- Pollard, R.J. (1969).** Notes on the husbandry and behavior of the sea otter in captivity. Proceedings 6th Annual Conference on Biological Sonar and Diving Mammals, *Stanford Research Institute*. Palo Alto, California. pp. 95-98.
- Popov, I. and A. Scopin. (2021).** The historical and contemporary status of the sea otter (*Enhydra lutris*) population on Urup Island, southern Kuril Islands. *Oryx*, 1-6.
- Powell, D. (1994).** A multispecies exhibit for the southern sea otter (*Enhydra lutris*). Proceedings of Annual American Zoo and Aquarium Association Conference, Atlanta, Georgia. pp. 229-231.

R

- Ralls, K., T.C. Eagle, and D.B. Siniff. (1996).** Movement and spatial use patterns of California sea otters. *Canadian Journal of Zoology*, **74**: 1841- 1849.
- Ralls, K., B.B. Hatfield, and D.B. Siniff. (1995).** Foraging patterns of California sea otters as indicated by telemetry. *Canadian Journal of Zoology*, **73**: 523-531.
- Ralls, K and D. B. Siniff. (1990).** Time budgets and activity patterns in California sea otters. *Journal of Wildlife Management*, **54**(2): 251-259.
- Ralls, K., D.B. Siniff, T.D. Williams, and V.B. Kuechle. (1989).** An intraperitoneal radio transmitter for sea otters. *Marine Mammal Science*, **5**(4): 376-381.
- Ralls, K. and D. B. Siniff. (1988).** Population status of California sea otter. OCS study MMS 88- 0021, *Minerals Management Service*, Pacific OCS Region, Los Angeles, California. 368 pp.
- Ralls, K., J. Ballou, and R.L. Brownell. (1983).** Genetic diversity in California sea otters: Theoretical considerations and management implications. *Biological Conservation*, **25**: 209-232.
- Ramirez, K., M. Hudson, and L. Takaki. (1996).** Initiation of a sea otter training program. *Marine Mammal: Public Display and Research*, **2**(1): 43-49.
- Rapport Clark, J. (1996).** Recovery under the endangered species act: Overview of the legislative mandates and the agencies responsible for implementation of southern sea otter protection under the endangered species act. *Endangered Species UPDATE*, **13**(12): 28-30.
- Rausch, R. (1953).** Studies on the helminth fauna of Alaska. XII. Disease in the sea otter with special reference to Helminthparasites. *Ecology*, **34**(3): 584-604.
- Rebar, A.H., B.E. Ballachey, D.L. Bruden, and K.A. Klwcker. (1996).** Hematology and clinical chemistry of sea otters captured in Prince William Sound, Alaska, following the Exxon Valdez oil spill. Exxon Valdez oil spill state/federal natural resource damage assessment final report (Marine Mammal Study 6), *U.S. Fish and Wildlife Service*, Anchorage, Alaska. 7 pp.
- Rebar, A.H., T.P. Lipscomb, R.K. Harris and B.E. Ballachey. (1995).** Clinical and clinical laboratory correlates in sea otters dying acutely in rehabilitation centers. *Veterinary Clinical Pathology*, **32**: 346-350.
- Reisewitz, S. E., J.A. Estes, and C.A. Simenstad. (2005).** Indirect food web interactions: Sea otters and kelp forest fishes in the Aleutian archipelago. *Oecologia*, **146**(4), 623-631.

- Rennie, C.J. 3rd, and C.D. Woodhouse. (1998).** Scoliosis and uterine torsion in a pregnant sea otter (*Enhydra lutris*) from California. *Journal of Wildlife Diseases*, **24**(3): 582-584.
- Ribic, C.A. (1982).** Autumn activity of sea otters in California. *Journal of Mammalogy*, **63**: 702-706.
- Ribic, C.A. (1980).** Fall movements and activity patterns of sea otters (*Enhydra lutris*) in California. M.S. Thesis. University of Minnesota. Minneapolis, Minnesota.
- Riedman, M.L., J.A. Estes, M.M. Staedler, A.A. Giles, and D.R. Carlson. (1994).** Breeding patterns and reproductive success of California sea otters. *Journal of Wildlife Management*, **58**: 391-399.
- Riedman, M.L. and J.A. Estes. (1990).** The sea otter (*Enhydra lutris*): Behaviour, ecology and natural history. *U.S. Department of the Interior, Fish and Wildlife Service*. pp. 1-126.
- Riedman, M., and J.A. Estes. (1990).** The sea otter (*Enhydra lutris*): Behavior, ecology, and natural history. *Biology of Reproduction*, **90**: 1-126.
- Riedman, M., J.A. Estes, M.M. Staedler, A. A. Giles, and D.R. Carlson. (1994).** Breeding patterns and reproductive success of California sea otters. *Journal of Wildlife Management*, **58**(3): 391-399.
- Riedman, M. L. and J.A. Estes. (1988).** Predation on seabirds by sea otters. *Canadian Journal of Zoology*, **66**(6): 1396-1402.
- Righton, A.L., J.A. St. Leger, T. Schmitt, M.J. Murray, L. Adams, and A.J. Fascetti. (2011).** Serum vitamin A concentrations in captive sea otters (*Enhydra lutris*). *Journal of Zoo and Wildlife Medicine*, **42**(1): 124-7.
- Riley, M.A. (1985).** An analysis of masticatory form and function in three mustelids (*Martes americana*, *Lutra canadensis*, *Enhydra lutris*). *Journal of Mammalogy*, **66**: 519-528.
- Ripple, W.J., Estes, J.A., Beschta, R.L., Wilmers, C.C., Ritchie, E.G., Hebblewhite, M., Berger, J., Elmhagen, B., Letnic, M., Nelson, M.P., Schmitz, O.J., Smith, D.W., Wallach, A.D., Wirsing, A.J. (2014).** Status and ecological effects of the world's largest carnivores. *Science* **343**: 1241484.
- Rodriguez-Ramos, F.J., N.J. Thomas, R.R. Dubielzig, and R. Drees. (2012).** Osteosarcoma of the maxilla with concurrent osteoma in a southern sea otter (*Enhydra lutris nereis*). *Journal of Comparative Pathology*, **147**(2-3): 391-396.
- Roest, A.I. (1979).** A reevaluation of sea otter taxonomy. In: Abstracts of the sea otter workshop. August 23-25, 1979. Santa Barbara, California. p 14.
- Roest, A.I. (1976).** Systematics and the status of sea otter (*Enhydra lutris*). *Bulletin of the California Academy of Sciences*, **75**: 267-270.
- Roest, A.I. (1973).** Subspecies of the sea otter, (*Enhydra lutris*). Contributions in Science. Los Angeles County Museum, **140**(252): 1-17.
- Roest, A.I. (1971).** A systematic study of the sea otter (*Enhydra lutris*). pp. 133-135. In: Proceedings of the Eighth Annual Conference on the Biology of Sonar and Diving Mammals. Menlo Park, California
- Rotterman, L. (1992).** Patterns of genetic variability in sea otters after severe population subdivision and reduction. Ph.D. dissertation. *University of Minnesota*, Minneapolis, Minnesota. 228 pp.
- Rotterman, L.M. and C. Monnett. (1991).** Mortality of sea otter weanlings in eastern and western Prince William Sound, Alaska, during the winter of 1990-91. Exxon Valdez oil spill state/federal natural resource damage assessment final report (Marine mammal study 6-18), *U.S. Fish and Wildlife Service*, Anchorage, Alaska. 14 pp.
- Rotterman, L.M. and T. Simon-Jackson. (1988).** Sea otter. pp. 237-275. In: **Lentfer, J.W.(ed.)**. Selected marine mammals of Alaska National Technical Information Service PB88-178462.
- Rouse, N.M., K.L. Counihan, C.E.C. Goertz, and K.N. Duddleston. (2021).** Competency of common northern sea otter (*Enhydra lutris kenyoni*) prey items to harbor *Streptococcus lutetiensis* and *S. phocae*. *Diseases of Aquatic Organisms*, **143**: 69-78.
- Rudebusch, J., B.B. Hughes, K.E. Boyer, and E. Hines. (2020).** Assessing anthropogenic risk to sea otters (*Enhydra lutris nereis*) for reintroduction into San Francisco Bay. *PeerJ* **8**: e 0241 <https://doi.org/10.7717/peerj.10241>

S

- Sanchez, M.S. (1992).** Differentiation and variability of mitochondrial DNA in three sea otter (*Enhydra lutris*) populations. M.S. Thesis, *University of California*, Santa Cruz.
- Sandegren, F.E., E.W. Chu, J.E. Vandevere. (1973).** Maternal behavior in the California sea otter. *Journal of Mammalogy*, **54**: 668- 679.
- Saunders, R.T. (1996).** Recovery under the endangered species act: Does “sanctuary” mean secure? *Endangered Species UPDATE Special Issue*.**13**(12): 43-46..
- Scheffer, V.B. and F. Wilke. (1950).** Validity of the subspecies *Enhydra lutris nereis*, the southern sea otter. *Journal of the Washington Academy of Science*, **75**: 269-272.
- Scheffer, V.B. (1940).** The sea otter on the Washington coast. *Pacific Northwest Quarterly*, **3**:370-388.
- Scheffer, V. B. (1981).** *The amazing sea otter*. Charles Scribner's Sons, New York.
- Schneider K. B. (1978).** Sex and age segregation of sea otters. *Alaska Department of Fish and Game*. Federal Aid in Wildlife Restoration Projects W-17-4 and W-17-5, Final Report. 23 pp.
- Schneider K. B. (1973a).** Age determination of sea otters. *Alaska Department of Fish and Game*, Federal Aid in Wildlife Restoration Projects W-17-4 and W-17-5, Progress Report. 23 pp.
- Schneider, K. B. (1973b).** Sea otter report. Federal aid to wildlife restoration project W-17-4. *Alaska Department of Fish and Game*. Anchorage, Alaska. Volume **11**. 28 pp.
- Schuler, K.L., B.B, Baker, K.A. Mayer, C. Perez-Heydrich, P.M. Holahan, N. J. Thomas, and C.L. White. (2018).** Refining aging criteria for northern sea otters in Washington state. *Journal of Fish and Wildlife Management*, **9**(1): 208–221
- Schwartz, J., B. Aldridge, M. Blanchard, F.C. Mohr, and J. Stott. (2005).** The development of methods for immunophenotypic and lymphocyte function analyzes for assessment of Southern sea otter (*Enhydra lutris nereis*) health. *Veterinary Immunology and Immunopathology*, **104**(1-2): 1-14.
- Scribner, K.T., J. Bodkin, B. Ballachey, S.R. Fain, M.A. Cronin, and M. Sanchez. (1997).** Population genetic studies of the sea otter (*Enhydra lutris*): a review and interpretation of available data. U.S. Department of Commerce, *National Oceanic and Atmospheric Administration Technical Report*.
- Sea Otter Recovery Team. (2007).** Recovery strategy for the sea otter (*Enhydra lutris*) in Canada. Species at Risk Act Recovery Strategy Series. *Fisheries and Oceans Canada*, Vancouver. vii + 56 pp.
- Shanebeck, K.M., J. Lakemeyer, U. Siebert, and K. Lehnert. (2020).** Novel infections of *Corynosoma enhydri* and *Profilicollis* sp. (Acanthocephala: Polymorphidae) identified in sea otters (*Enhydra lutris*). *Diseases of Aquatic Organisms*, **137**(3): 239-246.
- Shapiro, K., E. VanWormer, A. Packham, E. Dodd, P.A. Conrad, and M. Miller. (2019).** Type X strains of *Toxoplasma gondii* are virulent for southern sea otters (*Enhydra lutris nereis*) and present in fields from nearby watersheds. *Proceedings of the Royal Society B: Biological Sciences*, **286**(1909): 20191334.
- Shapiro, K., M.A. Miller, A.E. Packham, B. Aguilar, P.A. Conrad, E. Vanwormer, and M.J. Murray. (2015).** Dual congenital transmission of *Toxoplasma gondii* and *Sarcocystis neurona* in a late-term aborted pup from a chronically infected southern sea otter (*Enhydra lutris nereis*). *Journal of Parasitology*, **143**(3): 276-288.
- Shapiro K, M. Miller, and J. Mazet. (2012).** Temporal association between land-based runoff events and California sea otter (*Enhydra lutris nereis*) protozoal mortalities. *Journal of Wildlife Diseases*, **48**(2): 394-404.
- Shelton, A.O., C.J. Harvey, J.F. Samhouri, K.S. Andrews, B.E. Feist, K.E. Frick, et al. (2018).** From the predictable to the unexpected: Kelp forest and benthic invertebrate community dynamics following decades of sea otter expansion. *Oecologia*, **188**: 1105–1119.
- Shen, Z., F. Batac, A. Mannion, M.A. Miller, V. Bakthavatchalu, C. Ho, S. Manning, B.J. Paster, and J.G. Fox. (2017).** Novel urease-negative *Helicobacter* sp., “*H. enhydrae* sp. nov.” isolated from inflamed gastric tissue of southern sea otters. *Diseases of Aquatic Organisms*, **123**: 1-11.
- Sherrod, S.K., J.A. Estes, and C.M. White. (1975).** Depredation of sea otter pups by bald eagles at Amchitka Island, Alaska. *Journal of Mammalogy*, **56**:701-703.

- Shimek, S.J. and A. Monk. (1977).** Daily activity of sea otters off the Monterey Peninsula, California. *Journal of Wildlife Management*, **41**: 277-283.
- Simenstad, C.A., J.A. Estes, and K.W. Kenyon. (1978).** Aleuts, sea otters, and stable state communities, *Science*, **200**: 403.
- Sinha, A.A., C.H. Conaway, and K.W. Kenyon. (1996).** Reproduction in the female sea otter. *Journal of Wildlife Management*, **30**: 121-130.
- Sinha, A.A. and C.H. Conaway. (1968).** The ovary of the sea otter. *Anatomical Record*, **160**: 795-806.
- Sinha A.A., C.H. Conaway, and K.W. Kenyon. (1966).** Reproduction in the female sea otter. *Journal of Wildlife Management*, **30**: 121-130.
- Siniff, D.B. and K. Ralls. (1991).** Reproduction, survival and tag loss in California sea otters. *Marine Mammalogy Science*, **7**: 211-229.
- Siniff, D.B. and K. Ralls. (1988).** Population status of California sea otters. *Minerals Management Service*, Contract Report No. 14-12-001-30033.
- Siniff, D.B., T.D. Williams, A.M. Johnson, and D.L. Garschelis. (1982).** Experiments on the response of sea otters (*Enhydra lutris*) to oil contamination. *Biological Conservation*, **2**: 261-272.
- Siqueira, J.D., T.F. Ng, M. Miller, L. Li, X. Deng, E. Dodd, F. Batac, and E. Delwart. (2017).** Endemic infection of stranded southern sea otters (*Enhydra lutris nereis*) with novel parvovirus, polyomavirus, and adenovirus. *Journal of Wildlife Diseases*, **53**(3): 532-542.
- Smith, C.A., I. Giladi, and Y.S. Lee, (2009).** A reanalysis of competing hypotheses for the spread of the California sea otter. *Ecology*, **90**(9): 2503-2512.
- Smith, D.R., S. Niemeyer, and A.R. Flegal. (1992).** Lead sources to California sea otters: industrial inputs circumvent natural lead biodepletion mechanisms. *Environmental Research*, **57**(2): 163-74.
- Smith, J.G., J. Tomoleoni, M.M. Staedler, S. Lyon, J. Fujii, and M.T. Tinker. (2021).** Behavioral responses across a mosaic of ecosystem states restructure a sea otter-urchin trophic cascade. *Proceedings of the National Academy of Sciences (PNAS)*, **118**(11): e2012493118
- Staedler, M.M. (2011).** Individual variation in maternal care and provisioning in the southern sea otter (*Enhydra lutris nereis*): Causes and consequences of diet specialization in a top predator. M.S. Dissertation, University of California, Santa Cruz.
- Staedler, M. and M. Riedman. (1993).** Fatal mating injuries in female sea otters (*Enhydra lutris nereis*). *Mammalia*, **57**: 135-139.
- Staedler, M.M. and M.L. Riedman, M. L. (1989).** A case of adoption in the California sea otter. *Marine Mammal Science*, **5**(4): 391-394.
- Stavely, C.S., K.B. Register, M.A. Miller, S.L. Brockmeier, D. Jessup, and S. Jang. (2003).** Molecular and antigenic characterization of *Bordetella bronchiseptica* isolated from a wild southern sea otter (*Enhydra lutris nereis*) with suppurative bronchopneumonia. *Journal of Veterinary Diagnostic Investigation*, **15**: 570-574.
- Stetzer, E., T.D. Williams, and J.W. Nightingale. (1981).** Cholangiocellular adenocarcinoma, leiomyoma, and pheochromocytoma in a sea otter. *Journal of the American Veterinary Medical Association*, **179**(11): 1283-1284.
- St. Leger, J.A., A.L. Righton, E.M. Nilson, A.J. Fascetti, M.A. Miller, P.A. Tuomi, C.E. Goertz, and B. Puschner. (2011).** Vitamin A deficiency and hepatic retinol levels in sea otters (*Enhydra lutris*). *Journal of Zoo and Wildlife Medicine*, **42**(1): 98-104.
- Stock Assessment Report (2017).** “Marine Mammal Protection Act. Stock Assessment Report for the Southern Sea Otter in California”.
- Stoskopf, M.K. and D. Herbert. (1990).** Selected anatomical features of the sea otter (*Enhydra lutris*). *Journal of Zoo and Wildlife Medicine*, **21**(1): 36-47.
- Stoskopf, M.K., E.K. Fishman, and T.D. Williams. (1990).** Volumetric image-processing for 3-dimensional display of the skeletal anatomy of the sea otter. *Veterinary Radiology*, **31**(3): 142-145.
- Strobel, S.M., B.A. Moore, K.S. Freeman, et al. (2020).** Adaptations for amphibious vision in sea otters (*Enhydra lutris*): Structural and functional observations. *Journal of Comparative Physiology A*, **206**: 767-782.

Strobel, S.M., J.M. Sills, M.T. Tinker, and C.J. Reichmuth. (2018). Active touch in sea otters: In-air and underwater texture discrimination thresholds and behavioral strategies for paws and vibrissae. *Journal of Experimental Biology*, **221**(18): jeb181347. <https://doi.org/10.1242/jeb.181347>

Szpak, P., T.J. Orchard, I. McKechnie, and D.R. Grocke. (2012). Historical ecology of the late Holocene sea otters (*Enhydra lutris*) from northern British Columbia: Isotopic and zooarchaeological perspectives. *Journal of Archeological Science*, **39**: 1553-1571.

T

Tanaka, N., T. Izawa, E. Kashiwagi-Yamamoto, M. Kuwamura, M. Ozaki, T. Nakao, and J. Yamate. (2013). Primary cerebral T-cell lymphoma in a sea otter (*Enhydra lutris*). *Journal of Veterinary Medical Science*, **75**(12): 1667-1669.

Tarasoff, F.J. (1974). Anatomical adaptations in the river otter, sea otter, and harp seal with reference to thermal regulation. pp. 111-142. In: **Harrison, R.J. (ed).** *Functional Anatomy of Marine Mammals*. Academic Press, London.

Tarasoff, F.J. (1973). Anatomical observations on the river otter, sea otter and harp seal with reference to thermal regulation and diving. Ph.D., McGill University. Montreal, Quebec.

Tarasoff, F.J. and G.L. Kooyman. (1973a). Observations on the anatomy of the respiratory system of the river otter, sea otter, and harp seal. I. The topography, weight, and measurements of the lungs. *Canadian Journal of Zoology*, **51**(2): 163-170.

Tarasoff, F.J. and G.L. Kooyman. (1973b). Observations on the anatomy of the r respiratory system of the river otter, sea otter, and harp seal. II. The trachea and bronchial tree. *Canadian Journal of Zoology*, **51**(2): 171-177.

Tarasoff, F.J., A. Bisailon, J. Pierard, and A.P. Whitt. (1972). Locomotory patterns and external morphology of the river otter, sea otter, and harp seal (Mammalia). *Canadian Journal of Zoology*, **50**(7): 915-929.

Tarjan, L.M., and M.T Tinker. (2016). Permissible home range estimation (PHRE) in restricted habitats: a new algorithm and an evaluation for sea otters. *PLOS ONE*, **11**(3):e0150547.

Taylor, B.C., R.M. Brotheridge, D.A. Jessup, and J.L. Stott. (2002). Measurement of serum immunoglobulin concentration in killer whales and sea otters by radial immunodiffusion. *Veterinary Immunology and Immunopathology*, **89**(3-4): 187-195.

Thomas, J.A., L.H. Cornell, B.E. Joseph, T.D. Williams, and S. Dreischman. (1987). An implanted transponder chip used as a tag for sea otters (*Enhydra lutris*). *Marine Mammal Science*, **3**(3): 271-274.

Thomas, N., C.L White , J. Saliki, K. Schuler, D. Lynch , O. Nielsen, J.P Dubey, and S. Knowles. (2020). Canine distemper virus in the sea otter (*Enhydra lutris*) population in Washington state, USA. *Journal of Wildlife Disease*, **56**(4): 873-883.

Thomas, N.J., J.P. Dubey, D.S. Lindsay, R.A. Cole, and C.U. Meteyer. (2007). Protozoal meningoencephalitis in sea otters (*Enhydra lutris*): A histopathological and immunohistochemical study of naturally occurring cases. *Journal of Comparative Pathology*, **137**(2-3): 102-121.

Thomas, N.J. and R.A. Cole. (1996). Biology and status of the southern sea otter: The risk of disease and threats to the wild population. *Endangered Species UPDATE Special Issue*, **13**(12): 23-27.

Thomas, N. J., D. Pappagianis, L.H. Creekmore, and R.M. Duncan. (1994). Coccidioidomycosis in southern sea otters. Proceedings of the Fifth International Conference on Coccidioidomycosis. National Foundation for Infectious Diseases. August 24-27, 1994, Palo Alto, California. pp.163-173

Thometz, N.M., T.L. Kendall, B.P. Richter, and T.M. Williams. (2016). The high cost of reproduction in sea otters necessitates unique physiological adaptations. *The Journal of Experimental Biology*, **219**(15): 2260-2264.

Thometz, N.M., M.M. Staedler, J.A. Tomoleoni, J.L. Bodkin, G.B. Bentall, and M.T. Tinker. (2016). Trade-offs between energy maximization and parental care in a central place forager, the sea otter. *Behavioral Ecology*, **27**: 1552-1566.

- Thometz, N.M., M.J. Murray, and T.M. Williams. (2015).** Ontogeny of oxygen storage capacity and diving ability in the southern sea otter(*Enhydra lutris nereis*): Cost benefits of large lungs. *Physiological and Biochemical Zoology*, **88**(3): 311-327.
- Thometz, N. M. (2014).** Ontogeny of energetic demand and diving ability In the southern sea otter (*Enhydra lutris nereis*) and implications on diving and foraging behavior. PhD. Dissertation. University of California Santa Cruz.
- Thometz, N.M., M.T. Tinker, M.M. Staedler, K.A. Mayer, and T.M. Williams. (2014).** Energetic demands of immature sea otters from birth to weaning: implications for maternal costs, reproductive behavior and population-level trends. *Journal of Experimental Biology*, **217**(12): 2053-2061.
- Timm-Davis, L.L., R.W. Davis, and C.D. Narshall. (2017).** Durophagous biting in sea otters (*Enhydra lutris*) differs kinematically from raptorial biting of other marine mammals. *Journal of Experimental Biology*, **220**(24): 4703-4710.
- Tinker, M.T., L.P., Carswell, J. A. Tomoleoni, B.B. Hatfield, M.D. Harris, M.A. Miller et al. (unknown).** An integrated population model for southern sea otters. Reston, VA: US Geological Survey. US Geological Survey Open-File Report No. 2021-xxxx
- Tinker, M.T., J.A. Tomoleoni, B.P. Weitzman, M. Staedler, D. Jessup, M.J.Murray, M.Miller, T. Burgess, L. Bowen, A.K. Miles, N. Thometz, L. Tarjan, E. Golson, F. Batac, E. Dodd, E. Berberich, J. Kunz, G. Bentall, J. Fujii, T. Nicholson, S. Newsome, A. Melli, N. LaRoche, H. MacCormick, A. Johnson, L. Henkel, C. Kreuder-Johnson, and P. Conrad. (2020).** Marine Mammal Protection Act; Stock Assessment Report for the Southern Sea Otter in California. A Notice by the Fish and Wildlife Service on 01/27/2020, Federal Register. Open-File Report 2019-1022.
- Tinker, M.T., V.A. Gill, G.G. Esslinger, J. Bodkin, M.M. Mangel, D.H. Monson, W.W. Raymond, and M.L. Kissling. (2019).** Trends and carrying capacity of sea otters in Southeast Alaska. *Journal of Wildlife Management*. **83**(5):1073-1089.
- Tinker, M.T., J.A. Tomoleoni, B.P. Weitzman, M.M. Staedler, D.A. Jessup DA, M.J. Murray, M.A. Miller, T. Burgess, L. Bowen, A.K. Miles, N. Thometz, L. Tarjan, E. Golson, F. Batac, E. Dodd, E. Berberich, J. Kunz, G. Bentall, J. Fujii, T. Nicholson, S. Newsome, A. Melli, N. LaRoche, H. MacCormick, A. Johnson, L. Henkel, C. Kreuder-Johnson, and P. Conrad. (2019).** Sea otter population biology at Big Sur and Monterey California: Investigating the consequences of resource abundance and anthropogenic stressors for sea otter recovery. *U.S. Geological Survey open-file report 2019-1022*, 225 pp.
- Tinker, M.T. and B.B. Hatfield. (2018).** California sea otter (*Enhydra lutris nereis*) census results, Spring 2018, US Geological Survey 1067.
- Tinker, M.T. and B.B. Hatfield. (2017).** Annual California sea otter census-2017 spring census summary: *U.S. Geological Survey data release*, <https://doi.org/10.5066/F7R2109J>
- Tinker, M. T., J. Tomoleoni, N. LaRoche, L. Bowen, A.K. Miles, M. Murray, M. Staedler, and Z. Randell. (2017).** Southern sea otter range expansion and habitat use in the Santa Barbara Channel, California. (*U.S. Geological Survey Open-File Report 2017-1001*), 76 pp. <https://doi.org/10.3133/ofr20171001>
- Tinker, M.T. and B.B. Hatfield. (2016).** California sea otter (*Enhydra lutris nereis*) census results. Spring 2016. *U.S. Geological Survey Data Series 1018*. 10 pp.
- Tinker, M.T., B.B. Hatfield, M.D. Harris, and J.A. Ames. (2016).** Dramatic increase in sea otter mortality from white sharks in California. *Marine Mammal Science*, **32**: 309-326.
- Tinker, M.T. (2014).** Models and sea otter conservation. pp. 257-300. In: **Larson, S., G. VanBlaricom, and J. Bodkin (eds.).** *Sea Otter Conservation*, New York: Elsevier.
- Tinker, M.T. D. Jessup, M. Staedler, M. Murray, M. Miller, T. Burgess, E. Bowen, K. Miles, J. Tomoleoni, M. Thometz, L. Tarjan, E. Golson, F. Batac, E. Dodd, E. Berberich, J. Kunz, G. Bentall, T. Nicholson, S. Newsome, H. MacCormick, A. Melli, A. Johnson, L. Henkel, C. Kreuder-Johnson, and P.A. Conrad. (2013).** Sea otter population biology at Big Sur and Monterey California: Investigating the consequences of resource abundance and anthropogenic stressors for sea otter recovery. Draft Final Report to California Coastal Conservancy and U.S. Fish and Wildlife Service. University of California, Santa Cruz. 243 pp.

- Tinker, M.T., P.R. Guimaraes, Jr., M. Novak, F.M. Marquitti, J.L. Bodkin, M. Staedler, G. Bentall, and J.A. Estes.** (2012). Structure and mechanism of diet specialization: Testing models of individual variation in resource use with sea otters. *Ecology Letters*, **15**: 475-483.
- Tinker, M.D., G. Bentall, and J.A. Estes.** (2008). Food limitation leads to behavioral diversification and dietary specialization in sea otters, *Proceedings of the National Academy of Sciences*, **105**: 560-565.
- Tinker, M.T., D.F. Doak, and J. Estes.** (2008). Using demography and movement behavior to predict range expansion of the southern sea otter. *Ecological Applications*, **18**: 1781-1794.
- Tinker, M.T., D.P. Costa, J.A. Estes, and N. Wieringa.** (2007). Individual dietary specialization and dive behaviour in the California sea otter: Using archival time-depth data to detect alternative foraging strategies. *Deep Sea Research Part II: Topical Studies in Oceanography*, **54**(3-4): 330- 342.
- Tinker, M.T., D.F. Doak, J.A. Estes, B.B. Hatfield, M.M. Staedler, and J. Bodkin.** (2006). Incorporating diverse data and realistic complexity into demographic estimation procedures for sea otters. *Ecological Applications*, **16**: 2293-2312.
- Tinker, M.T., J.A. Estes, K. Ralls, T.M. Williams, D. Jessup, and D.P. Costa.** (2006). Population dynamics and biology of the California sea otter (*Enhydra lutris nereis*) at the southern end of its range. MMS OCS Study 2006-2007. Coastal Research Center, Marine Science Institute, University of California, Santa Barbara, California. MMS Cooperative Agreement Number 14-35-0001-31063.
- Tseng, Z.J., A. Pacheco-Castro, O. Carranza-Castañeda, J.J. Aranda-Gómez, X. Wang, H. Troncoso.** (2017). Discovery of the fossil otter (*Enhydritherium terraenovae*) (Carnivora, Mammalia) in Mexico reconciles a palaeozoogeographic mystery. *Biological Letters*, **13**(6): Article Number 20170259.
- Tseng, M., M. Fleetwood, A. Reed, V.A. Gill, R.K. Harris, R.B. Moeller, P. Thomas, P. Lipscomb, J.A.K. Mazet, and T. Goldstein.** (2012). Mustelid Herpesvirus-2: A novel herpes infection in northern sea otters (*Enhydra lutris kenyoni*). *Journal of Wildlife Diseases*, **48**(1): 181-185.
- Tuomi, P.A., M.J. Murray, M.M. Garner, C.E. Goertz, R.W. Nordhausen, K.A. Burek-Huntington, D.M. Getzy, O. Nielsen, L.L. Archer, H.T. Maness, J.F. Wellehan Jr, and T.B. Waltzek.** (2014). Novel poxvirus infection in northern and southern sea otters (*Enhydra lutris kenyoni* and *Enhydra lutris neiris*), Alaska and California, USA. *Journal of Wildlife Diseases*, **50**(3): 607-615.
- Tyrrell, L.P., S.D. Newsome, M.L. Fogel, M. Viens, R. Bowden, and M.J. Murray.** (2013). Vibrissa growth rates and trophic discrimination factors in captive southern sea otters (*Enhydra lutris nereis*). *Journal of Mammalogy*, **94**: 331-338.

U

- U.S. Fish and Wildlife Service.** (2019). Southern sea otter (*Enhydra lutris nereis*). 18pp. Revised 03/2019.
- U.S. Fish and Wildlife Service** (2018). Sea otter (*Enhydra lutris kenyoni*) Washington Stock. Lacey, Washington.
- US Fish & Wildlife Service.** (2016). Stock assessment report for the southern sea Otter in California. Marine Mammal Protection Act. Federal Register 12/06/2016
- U.S. Fish and Wildlife Service.** (2015). Southern sea otter (*Enhydra lutris nereis*) 5-year review: Summary and evaluation. Ventura, California. 42 pp.
- U.S. Fish and Wildlife Service.** (2014). Northern Sea Otter (*Enhydra lutris kenyoni*): Southeast Alaska stock. U. S. Fish and Wildlife Service, Region 7, Alaska, 2pp.
- U.S. Fish and Wildlife Service.** (2008). Sea Otter (*Enhydra lutris*): Southcentral Alaska stock. Marine Mammal Protection Act Stock Assessment Report. 5pp.
- U.S. Fish and Wildlife Service.** (2008). Northern sea otters (*Enhydra lutris kenyoni*): Southwest Alaska Stock.
- U.S. Fish and Wildlife Service.** (2003). Final revised recovery plan for the southern sea otter (*Enhydra lutris nereis*). Portland, Oregon, xi+ 165 pp.

- U.S. Fish and Wildlife Service. (1996).** Southern Sea Otter Recovery Plan. Ventura, California. USFWS.
- U.S. Geological Survey. (2020).** Monitoring population status of sea otters (*Enhydra lutris*) in Glacier Bay National Park and Preserve, Alaska: Options and considerations. USGS Open-File Report 2015-1119, 42 pp.
- U.S. Geological Survey. (2010).** Spring 2010 mainland California sea otter survey results. USGS Western Ecological Research Center.(Unpublished USGS report).
- U.S Geological Survey. (2009).** Spring 2009 mainland California sea otter survey results
- Uspenskij, S.M. (1955).** Proshloe rasprostranenie kotika (*Callorhinus ursinus* L.) i kalana (*Enhydra lutris* L.) na ostrova Kuril'skoj gryady. *Byulleten' moskovskogo obshchestva ispytatelej prirody, otdel biologii, [Past distribution of Callorhinus ursinus L. and Enhydra lutris L. on the islands of the Kuril ridge. Bulletin of the Moscow Society of Naturalists, Biology Department]*. **60:** 9–16. (In Russian)
- Udevitz, M.S., B.E. Ballachey, and D.L. Bruden. (1996).** A population model for sea otters in western Prince William Sound. Exxon Valdez oil spill restoration project final report (restoration project 93043-3), *National Biological Service*, Anchorage, Alaska. 34 pp.
- Udevitz, M.S., J.L. Bodkin, and D.P. Costa. (1995).** Sea otter detectability in boat-based surveys of Prince William Sound, Alaska. *Marine Mammal Science*, **11**(1): 59-71.
- U.S. Fish and Wildlife Service. (1996).** Southern sea otter recovery plan, 1996 draft. Ventura, CA. 42 pp.
- U.S. Fish and Wildlife Service. (1995).** Stock assessment sea otter, Alaska Stock.
- U.S. Fish and Wildlife Service. (1982).** Southern sea otter recovery plan, approved. Washington, D.C. 66 pp.

V

- Valentine, K., D.A. Duffield, L.E. Patrick, D.R. Hatch, V.L. Butler, R.I. Hall, and N. Lehman. (2008).** Ancient DNA reveals genotypic relationships among Oregon populations of the sea otter (*Enhydra lutris*). *Conservation Genetics*, **9**: 933-938.
- VanBlaricom, G.R., Estes, J.A. (Eds.). (2012).** The community ecology of sea otters. (Vol. 65). Springer Science & Business Media.. California Department of Fish and Wildlife, Sacramento, USA.
- VanBlaricom, G.R. (1996).** Recovery under the marine mammal protection act and Beyond: Saving the sea otter population in California: Contemporary problems and future Pitfalls. *Endangered Species UPDATE Special Issue*, **13**(12): 85-91.
- VanBlaricom, G.R. (1990).** Capture of lightly oiled sea otters for rehabilitation: A review of decisions and issues. pp. 130-136. In: **Bayha, K. and J. Konnendy, (eds.).** Sea otter symposium: Proceedings of a symposium to evaluate the response effort on behalf of sea otters after the T/V Exxon Valdez oil spill into Prince William Sound, Anchorage, Alaska. April 17-19,1990. U.S. Fish and Wildlife Service, *Biological Report*, **90**(12). 126 PP.
- VanBlaricom, G.R. and J.A. Estes (eds.). (1988).** *The Community Ecology of Sea Otters*. Springer Verlag, Berlin, Germany. 247 pp.
- VanBlaricom, G.G. (1984).** Relationships of sea otters to living marine resources in California: A new perspective. In: **Lyle, V. (ed.).** *Ocean Studies Symposium*, Asilomar, California, page 361.California Department of Fish and Game, Sacramento, California.
- VanBlaricom, G.R. and R.J. Jameson. (1982).** Lumber spill in California waters: Implications for oil spills and sea otters. *Science*, **215**:1503-1505.
- Vandevere, J.E. (1970).** Reproduction in the southern sea otter. *Proceedings of the Annual Conference on Biological Sonar and Diving Mammals*, **7**: 1-7.
- Vandevere, J. (1972).** Behavior of southern sea otter pups. Proceedings of the Ninth Annual Conference of Biological Sonar and Diving Mammals. *Journal of the Marine Biological Association of the United Kingdom*, 21-35.
- VanWegenen, R.F., M.S. Foster, and F. Burns. (1981).** Sea otter predation on birds near Monterey, California. *Journal of Mammalogy*, **62**: 433-434.
- Viens, M. (2008).** Sea otter research and conservation. *Veterinary Technician*, **29**(6): 342-346.

- Vincenzi, F. (1962).** The sea otter (*Enhydra lutris*) at Woodland Park Zoo. *International Zoo Yearbook*, **3**: 27-29.
- Volokhov, D.V., F. Batac, Y. Gao, M. Miller, and V.E. Chizhikov. (2019).** *Mycoplasma enhydriæ* sp. nov. isolated from southern sea otters (*Enhydra lutris nereis*). *International Journal of Systematic and Evolutionary Microbiology*, **69**: 363-370.
- Von Biela, V.R., J.W. Testa, V.A. Gill, and J.M. Burns. (2008).** Evaluating cementum to determine past reproduction in northern sea otters. *Journal of Wildlife Management*, **72**: 618-624.
- Voronov, V.G. (1969).** The effect of tsunami on the Urup sea otter population. pp 43-49. In **Arseniev et al** (Eds). *Marine Mammals*. Nauka, Moscow. 341 pp.

W

- Watson J.F. and T. L. Root. (1996).** Introduction to the special issue;: Biology and status of the southern sea otter: Why southern sea otter. *Endangered Species UPDATE Special Issue*, **13**(12): 4-5.
- Watt, J., D. B. Siniff, and J.A. Estes. (2000).** Inter-decadal patterns of population and dietary change in sea otters at Amchitka Island, Alaska. *Oecologia*, **124**(2): 289-298.
- Watt, J., B. Krause, and T.M. Tinker. (1995).** Bald eagles kleptoparasitizing sea otters at Amchotka Island, Alaska. *Condor*, **97**: 588-590.
- Wellman, H.P., R.M. Austin, N.D. Dagtas, M.L. Moss, T.C. Rick, and C.A. Hofman. (2020).** Archaeological mitogenomes illuminate the historical ecology of sea otters (*Enhydra lutris*) and the viability of reintroduction. *The Royal Society B: Biological Sciences*, **287**(1940). <https://doi.org/10.1098/rspb.2020.2343>
- Wellman, H., R. Austin, N. Kilic, M. Moss, and C. Hofman. (2019).** Ancient Mitogenomes from Oregon Sea Otters (*Enhydra lutris*): Genetic and Archaeological Contributions to the Historical Ecology of an Extirpated Population. Presented at the 84th Annual Meeting of the Society for American Archaeology, Albuquerque, NM. 2019 (tDAR id: 450732)
- Wellman, H.P. (2018).** Applied zooarchaeology and Oregon Coast sea otters (*Enhydra lutris*). *Marine Mammal Science*, **34**(3): 806-822.
- Wendell, F. (1996).** Recovery under the marine mammal protection act and beyond: The state of California's role in the conservation of sea otters and other aquatic resources. *Endangered Species UPDATE Special Issue*, **13**(12): 82-84.
- Wendell, F. (1994).** Relationship between sea otter range expansion and red abalone abundance and size distribution in central California. *California Fish and Game*, **80**: 45-56.
- Wendell, F.E., R.A. Hardy, and J.A. Ames. (1986).** Assessment of the accidental take of sea otters (*Enhydra lutris*) in gill and trammel nets. *California Department of Fish and Game*. Mar. Res. Tech. Rep. No. 54, 31 pp.
- Wendell, F.E., R.A. Hardy, J.A. Ames, and R.T. Burge. (1986).** Temporal and spatial patterns in sea otter (*Enhydra lutris*) range expansion and in the loss of the Pismo clam fisheries. *California Fish and Game*, **72**: 197-212.
- Wendell, F.E., R.A. Hardy, and J.A. Ames. (1985).** Assessment of the accidental take of sea otters (*Enhydra lutris*) in gill and trammel nets. Marine Research Branch, *California Department of Fish and Game*. 30 pp.
- Wendell F.E., J.A. Ames, and R.A. Hardy. (1984).** Pup dependency period and length of reproductive cycle: Estimates from observations of tagged sea otters (*Enhydra lutris*) in California. *California Fish and Game Department*, **70**:89-100.
- Wendte, J.M., M.A. Miller, A.K. Nandra, S.M. Peat, P.R. Crosbie, P.A. Conrad, and M.E. Grigg. (2010).** Limited genetic diversity among *Sarcocystis neurona* strains infecting southern sea otters precludes distinction between marine and terrestrial isolates. *Veterinary Parasitology*, **169**(1-2): 37-44.
- Whitt, A.P. (1971).** The behavior of the sea otter in captivity. M.S. thesis. *Pacific Lutheran University*. Tacoma, Washington. 170 pp.
- White, C.L., E.W. Lankau, D. Lynch, S. Knowles, K.L. Schuler, J.P. Dubey, V.I. Shearn-Bochsler, M. Isidoro-Ayza, and N.J. Thomas. (2018).** Mortality trends in northern sea otters (*Enhydra*

- lutris kenyoni*) collected from the coasts of Washington and Oregon, USA. (2002-15). *Journal of Wildlife Diseases*, **54**(2): 238-247.
- Wild, P. and J. Ames. (1974).** A report on the sea otter (*Enhydra lutris*) in California. *California Fish and Game Marine Resources Technical Report* 20.93 pp.
- Williams, T.D. and T.M. Williams. (1996).** The role of rehabilitation and captive management in sea otter conservation: The role of rehabilitation in sea otter conservation efforts. *Endangered Species UPDATE Special Issue*, **13**(12): 50-52. December 1996.
- Williams, T.D. and J. Hymer. (1992).** Raising orphaned sea otter pups. *Journal of the American Veterinary Medical Association*, **201**(5): 688-691.
- Williams, T.D., A.H. Rebar, R.F. Teclaw, and P.E. Yoos. (1992).** Influence of age, sex, capture technique, and restraint on hematologic measurements and serum chemistries of wild California sea otters. *Veterinary Clinical Pathology*, **21**:106-110.
- Williams, T. D., L. Henderson, P. Harr, J. Hymer, and G. Issvoran. (1991).** Nutritional requirements of the sea otter (*Enhydra lutris*). Proceedings of the 22nd International Association of Aquatic Animal Medicine (IAAAM) Conference, Marine Land, Florida. Page 61.
- Williams, T.D., D.M. Baylis, S.H. Downey, and R.O. Clark. (1990).** A physical restraint device for sea otters. *Journal of Zoo and Wildlife Medicine*, **21**(1): 105-107.
- Williams, T.D. (1990).** Sea otter biology and medicine. pp. 625-648. In: **Dietrauf, L.A. (ed.). Handbook of Marine Mammal Medicine: Health disease and rehabilitation.** CRC Press, Boca Raton, Florida. 735 pp.
- Williams, T.D. (1986).** Mustelidae (sea otter). pp. 820-822. In: **Fowler, M.E. (ed.). Zoo and Wild Animal Medicine, 2nd edition.** Philadelphia, Pennsylvania. 1127 pp.
- Williams, T.D., L. Hoefer, and W. Pinard, W. (1983).** Pneumoperitoneum associated with intestinal volvulus in a sea otter. *Journal of the American Veterinary Medical Association*, **183**(11): 1288-1289.
- Williams, T.D. and L.T. Pulley. (1983).** Hematology and blood chemistry in the sea otter (*Enhydra lutris*). *Journal of Wildlife Diseases*, **19**(1): 44-47.
- Williams, T. D., and D.B. Siniff. (1983).** Surgical implantation of radiotelemetry devices in the sea otter. *Journal of the American Veterinary Medical Association*, **183**(11): 1290-1291.
- Williams, T.D. and L.T. Pulley. (1981).** Leiomyomas in two sea otters (*Enhydra lutris*). *Journal of Wildlife Diseases*, **17**(3): 401-404.
- Williams, T.D., A.L. Williams, and D.B. Siniff. (1981).** Fentanyl and azaperone produced neuroleptanalgesia in the sea otter (*Enhydra lutris*). *Journal of Wildlife Diseases*, **17**(3): 337-342.
- Williams, T.D., J.A. Mattison, and J.A. Ames. (1980).** Twinning in a California sea otter. *Journal of Mammalogy*, **61**(3): 575-576.
- Williams, T.M. and R.W. Davis. (1995).** Emergency Care and Rehabilitation of Oiled Sea Otters: A Guide for Oil Spills Involving Fur-bearing Marine Mammals. *University of Alaska Press*. Fairbanks.
- Williams, T.M., D.J. O'Connor, and S.W. Nielsen. (1995).** The effects of oil on sea otters: Histopathology, toxicology, and clinical history. pp. 3-22. In: **Williams T.M. and R. W. Davis (eds).** Emergency Care and Rehabilitation of Oiled Sea Otters: A Guide for Oil spills Involving Fur-bearing Marine Mammals. *University of Alaska Press*. Fairbanks.
- Williams, T.M. (1989).** Swimming by sea otters: Adaptations for low energetic cost locomotion. *Journal of Comparative Physiology A*, **164**: 815-824.
- Williams, T. M., R.A. Kastelein, R.W. Davis, and J.A. Thomas. (1988).** The effects of oil contamination and cleaning on sea otters (*Enhydra lutris*). I. Thermoregulatory implications based on pelt studies. *Canadian Journal of Zoology*, **66**: 2776-2781.
- Williams, T.D., D.D. Allen, J.M. Groff, and R.L. Glass. (1992).** An analysis of California sea otter (*Enhydra lutris*) pelage and integument. *Marine Mammal Science*, **8**(1): 1-18.
- Wilmers, C.C., J.A. Estes, M. Edwards, K.L. Laidre, and B. Konar. (2012).** Do trophic cascades affect the storage and flux of atmospheric carbon? An analysis of sea otters and kelp forests. *Frontiers in Ecology and the Environment*, **10**: 409-415.

- Wilson, D.E., M.A. Bogan, R.L. Brownell, Jr., A.M. Burdin, and M.K. Maminov. (1991).** Geographic variation in sea otters (*Enhydra lutris*). *Journal of Mammalogy*, **72**: 22-36.
- Wilson, R. K., C.R. McCormick, T.D. Williams, and P.A. Tuomi. (1990).** Clinical treatment and rehabilitation of sea otters. Biological Report: U.S. Fish & Wildlife Service, **90**(12): 326-337.
- Winer, J.N., S.M. Liong, and F.J. Verstraete. (2013).** The dental pathology of southern sea otters (*Enhydra lutris nereis*). *Journal of Comparative Pathology*, **149**(2-3): 346-355.
- Wolkomir, R. (1995).** The fragile recovery of California sea otters. *National Geographic*, **181**: 42-61.
- Wolt, R.C., F.P. Gelwick, F. Weltz et al. (2012).** Foraging behavior and prey of sea otters in a soft- and mixed-sediment benthos in Alaska. *Mammalian Biology*, **77**: 271–280.
- Wright, T. (2021).** Sea otter skeletal muscle high-resolution respirometry. Texas Data Repository Available At: <https://doi.org/10.18738/T8/TQBMXQ>

Y

- Yeates, L.C., T.M. Williams, and T.L. Fink. (2007).** Diving and foraging energetics of the smallest marine mammal, the sea otter (*Enhydra lutris*). *Journal of Experimental Biology*, **210**(11): 1960-1970.
- Yeates, L.C., T.M. Williams, and M.M. Staedler. (2004).** Diving and foraging energetics in the sea otter (*Enhydra lutris*): Is small size a disadvantage in water? *Integrative and Comparative Biology*, **44**(6).
- Yee, J.L., J.A. Tomoleoni, M.C. Kenner, J. Fujii, G.B. Bentall, M.T. Tinker, and B.B. Hatfield. (2020).** Southern (California) sea otter population status and trends at St. Nicholas Island, 2017–2020. Open-File Report 2020-1115. Wildlife Program. Prepared in cooperation with the U.S. Fish and Wildlife Service and the U.S. Navy. USGS. <https://doi.org/10.3133/ofr20201115>
- Young, C., M.A. Miller, R. Kuchta, J. Brabec, S.D. Newsome, and M.J. Dailey. (2017).** First report of an adult tapeworm (*Cestoda: Diphyllobothriidea*) in a southern sea otter (*Enhydra lutris nereis*). *Journal of Wildlife Diseases*, **53**(4): 934-937.

Z

- Zasypkin, M. (1998).** Allozymnaia izmenchivost' kalana (*Enhydra lutris* L. 1758). Analiz materialov ot zhivotnykh, pogibshikh na O. Beringa v zimu 1992/1993 gg [Allozyme variation in the sea otter (*Enhydra lutris* L. 1758): Analysis of materials from animals that died on Bering Island in the winter of 1992/1993]. *Genetika*, **34**(5): 662-670. (in Russian)
- Ziccardi, M. H., J.A.K. Mazet, I.A. Gardner, W.M. Boyce, and M.S. Denison. (2002).** Validation of a cell culture bioassay for detection of petroleum exposure in mink (*Mustela vison*) as a model for detection in sea otters (*Enhydra lutris*). *American Journal of Veterinary Research*, **63**: 963-968.
- Ziscovici, C., P.W. Lucas, P.J. Constantino, T.G. Bromage, and A. van Casteren. (2014).** Sea otter dental enamel is highly resistant to chipping due to its microstructure. *Biology Letters*, **10**(10): 10 pp.

B I B L I O G R A P H Y

A BIBLIOGRAPHY ON THE SEA OTTER

Enhydra lutris

2nd Edition (2022)

Victor L. Camp

ADDENDUM

This can be used in conjunction with the previous edition to save printing out the whole document again.

- Allen, M.L. and S.M. Crimmins, SM (2019).** Sea Otters (*Enhydra lutris*) from the Northern and Southern Populations may find each other in Humboldt County, California. *IUCN Otter Specialist Group Bulletin*, **36** (2): 88-92
https://www.iucnsgbulletin.org/Volume36/Allen_Crimmins_2019.html
- Anonymous. (2003).** Suspected cat link to sea otter disease. *Marine Pollution Bulletin*, **46**: 272-272.
- Boolotian, R.A. (1958).** The playful sea otter. *Outdoor California*, August: 12-14.
- Brown, A.C., E. Elias. (2008).** Extralimital records of the sea otter (*Enhydra lutris*) in northern California. *Northwest Naturalist*, **89**: 54-56.
- California Department of Fish and Wildlife (2015).** Natural Diversity Database: Sea Otter (*Enhydra lutris*). California Department of Fish and Wildlife, Sacramento, USA.
- Calkins, D. and P.C. Lent. (1975).** Territoriality and mating behavior in Prince William Sound sea otters. *Journal of Mammalogy*, **56**: 528-529
- Carter, N.H, M.A. Miller, M.E. Moriarty, M.T. Tinker, R.B. Gagne, C.K. Johnson, M.J. Murray, M.M. Staedler, B. Bangoura, S. Larson, and H.B. Ernest HB. (2022).** Investigating associations among relatedness, genetic diversity, and causes of mortality in southern sea otters (*Enhydra lutris nereis*). *Journal of Wildlife Diseases*, **58**(1): 63-75.
- Carter, S.K., G.R. VanBlaricom, and B.L. Allen, B.L. (2007).** Testing the generality of the trophic cascade paradigm for sea otters: A case study with kelp forests in northern Washington, USA. *Hydrobiologia*, **579**: 233-249.
- Cresswell H. (2015).** First Humboldt coast sea otter sighting in years. Times-Standard:
<https://www.times-standard.com/2015/10/09/first-humboldt-coast-sea-otter-sighting-in-years/>
- Da Silva, I.M. and S. Larson. (2005).** Predicting reproduction in captive sea otters (*Enhydra lutris*). *Zoo Biology*, **24**: 73-81.
- Davis, B.S. (1979).** Life and times of two sea otters: Mother and pup. *Oceans*, **12**:19-23.
- Doroff, A.M. and A.R. DeGrange. (1994).** Sea otter (*Enhydra lutris*) prey consumption and foraging success in the northern Kodiak Archipelago. *Fisheries Bulletin*, **92**: 704-710.
- Dudek, N.K., A.D. Switzer , E.K. Costello, M.J. Murray, J.A. Tomoleoni, M.M Staedler, M.T. Tinker, and D.A. Relman. (2022).** Characterizing the oral and distal gut microbiota of the threatened southern sea otter (*Enhydra lutris nereis*) to enhance conservation practice. *Conservation Science and Practice*, 4(4) <https://doi.org/10.1111/csp2.12640>
- Esslinger, G.G., B.H. Robinson, D.H. Monson, R.L. Taylor, D. Esler, B.P. Weitzman, and J. Garlich-Miller. (2021).** Abundance and Distribution of Sea Otters (*Enhydra lutris*) in the Southcentral Alaska stock, 2014, 2017, and 2019. *Open-File Report 2021-1122*. Prepared in cooperation with U.S. Fish and Wildlife Service Available At:
<https://doi.org/10.3133/ofr20211122>
- Estes, J.A., D.F. Doak, J.R. Bodkin, R.J. Jameson, D. Monson, J. Watt, and M.T. Tinker. (1996).** Comparative demography of sea otter populations. *Federal Government Series*,

Endangered Species Update, Special Issue: Conservation and Management of the southern sea otter **13:** 11-13.

- Estes, J.A. and C. Harrold. (1988).** Sea otters, sea urchins and kelp beds: Some question of scale. pp. 116-150. In: **VanBlairicom and J.A. Estes. (eds.).** The Community Ecology of Sea Otters. Springer, Berlin, Germany.
- Estes, J.S. (1977).** Population estimates and feeding behavior of sea otters. pp. 511-526. In: **Merritt, M.L. and R.G. Fuller. (eds.).** The environment of Amchitka Island. *National Technical Information Service*. Springfield, VA
- Estes, J.A., Palmisano, J.F. (1974).** Sea otters: their role in structuring nearshore communities. *Science* **185:** 1058-1060.
- Fisher, E.M. (1940).** The sea otter in California. *Proceedings of the Sixth Pacific Science Congress*, **4:** 231-240.
- Flannery, B.G. et al. (2021).** Genetic variation in sea otters (*Enhydra lutris*) from the North Pacific with relevance to the threatened Southwest Alaska distinct population segment. *Marine Mammal Science*. <https://doi.org/10.1111/mms.12899>
- Garshelis, D.L. and C.B. Johnson. (2001).** Sea otter population dynamics and the Exxon Valdez: Disentangling the confounding effects. *Journal of Applied Ecology*, **38:** 19-35.
- Garshelis, D.L. and C.B. Johnson. (1999).** Otter eating orcas. *Science*, **283:** 175.
- Garshelis, D.L. (1997).** Sea otter mortality estimated from carcasses collected after the Exxon Valdez oil spill. *Conservation Biology*, **11:** 905-916.
- Garshelis, D.L. and J.A. Garshelis. (1984).** Movements and management of sea otters in Alaska. *Journal of Wildlife Management*, **48:** 665-678.
- Geraci, J.R. and T.D. Williams. (1990).** Physiologic and toxic effects on sea otters. pp. 211-221. In: **Geraci, J.R. and T.D. Williams (eds.).** Sea Mammals and Oil: Confronting the Risk. Academic Press, Inc.
- Hall, K.R.L. and G.B. Schaller. (1964).** Tool-using behavior of the California sea otter. *Journal of Mammalogy*, **45:** 287-298.
- Hatfield, B.B., D. Marks, M.T. Tinker, K. Nolan and J. Pierce. (1998).** Attacks on sea otters by killer whales. *Marine Mammal Science*, **14:** 888-894.
- Jackson, J.R. (2021).** Sea Otter (*Enhydra lutris*) impacts to seagrass (*Zostera marina*) communities across the northeast Pacific. Department of Biology, Sonoma State University.
- Johnson, A.M. (1982a).** Status of Alaska sea otter populations and developing conflicts with fisheries. *Transactions of the North American Wildlife and Natural Resources Conference*, **47:** 293-299.
- Kilmer, F.H. (1972).** A new species of sea otter from the Pleistocene of northwestern California. *Bulletin of the South California Academy of Science*, **71:** 150-157.
- Kvitek, R.G., A.R. DeGange, and M.k. Beitler. (1991).** Paralytic shellfish poisoning toxins mediate feeding behavior of sea otters. *Limnology and Oceanography*, **36:** 393-404.
- Kruuk, H., U. Glimmerven, and E. Ouwerkerk. (1985).** The effects of water depth on otter foraging in the sea. *Institute of Terrestrial Ecology Annual Report*, **1984:** 112-115.
- LaRoche, N.L., S. King, M.C. Rogers, G.I. Echert, and H.C. Pearson. (2021).** Behavioral observation and stable isotopes reveal high individual variation and little season variation in seasonal diets of sea otters in southeast Alaska. *Marine Ecology Progress Series*. <https://doi.org/10.3354/meps13871>
- Larson, S., R. Jameson, M. Etnier, M. Fleming, and P. Bentzen. (2002).** Loss of genetic diversity in sea otter (*Enhydra lutris*) associated with the fur trade of the 18th and 19th centuries. *Molecular Ecology*, **11:** 1899-1903.
- Loughlin, T.R. (1978).** A telemetric and tagging study of sea otter activities near Monterey, California, Final Report to U.S. Marine Mammal Commission, contract MM6AC024. N.T.I.S. Publication PB-289682:1-64.
- May, A.G. (1943).** The northern sea otter. *Natural History*, **52:** 22-23.
- Murie, O.J. (1940).** Notes on the sea otter. *Journal of Mammalogy*, **21:** 119-131.
- Miller, M., Dodd, E., Batac, F., Young, C., Harris, M., Henkel, L. (2015).** Summary of southern sea otter mortality investigations in 2014. California Department of Fish and Wildlife Office of Spill Prevention and Response Technical Report 15-1.
- Newby, T.C. (1975).** A sea otter (*Enhydra lutris*) food dive record. *Murrelet*, **56:** 7.

- Osterrieder, S. and R. Davis. (2011).** Sea otter female and pup activity budgets, Prince William Sound, Alaska. *Journal of the Marine Biological Association of the United Kingdom*, **91**(4): 883-892.
- Packard, J.M. and C.A. Ribic. (1982).** Classification of the behavior of sea otters (*Enhydra lutris*). *Canadian Journal of Zoology*, **60**: 1362-1373.
- Payne, S.F. and R.J. Jameson. (1984).** Early behavioral development of the sea otter (*Enhydra lutris*). *Journal of Mammalogy*, **65**: 527-531.
- Pearse, J.S. (2022).** Long-term monitoring of sea otters from West Beach at Hopkins Marine Station. Stanford University Press
- Ribic, C.A. (1980).** Fall movements and activity patterns of sea otters (*Enhydra lutris*) in California. M.S. Thesis. University of Minnesota. Minneapolis, Minnesota.
- Ripple, W.J., Estes, J.A., Beschta, R.L., Wilmers, C.C., Ritchie, E.G., Hebblewhite, M., Berger, J., Elmhagen, B., Letnic, M., Nelson, M.P., Schmitz, O.J., Smith, D.W., Wallach, A.D., Wirsing, A.J. (2014).** Status and ecological effects of the world's largest carnivores. *Science* **343**: 1241484.
- Sandegren, F.E., E.W. Chu, J.E. Vandevere. (1973).** Maternal behavior in the California sea otter. *Journal of Mammalogy*, **54**: 668- 679.
- Schuler, K.L., B.B. Baker, K.A. Mayer, C. Perez-Heydrich, P.M. Holahan, N. J. Thomas, and C.L. White. (2018).** Refining aging criteria for northern sea otters in Washington state. *Journal of Fish and Wildlife Management*, **9**(1): 208-221.
- Shimek, S.J. and A. Monk. (1977).** Daily activity of sea otters off the Monterey Peninsula, California. *Journal of Wildlife Management*, **41**: 277-283.
- Simenstad, C.A., J.A. Estes, and K.W. Kenyon. (1978).** Aleuts, sea otters, and stable state communities, *Science*, **200**: 403.
- Sinha, A.A., C.H. Conaway, and K.W. Kenyon. (1996).** Reproduction in the female sea otter. *Journal of Wildlife Management*, **30**: 121-130.
- Tarasoff, F.J. (1973).** Anatomical observations on the river otter, sea otter and harp seal with reference to thermal regulation and diving. Ph.D., McGill University. Montreal, Quebec.
- Tarasoff, F.J. and G.L. Kooyman. (1973a).** Observations on the anatomy of the respiratory system of the river otter, sea otter, and harp seal. I. The topography, weight, and measurements of the lungs. *Canadian Journal of Zoology*, **51**(2): 163-170.
- Tarasoff, F.J. and G.L. Kooyman. (1973b).** Observations on the anatomy of the respiratory system of the river otter, sea otter, and harp seal. II. The trachea and bronchial tree. *Canadian Journal of Zoology*, **51**(2): 171-177.
- Tarasoff, F.J., A. Bisailon, J. Pierard, and A.P. Whitt. (1972).** Locomotory patterns and external morphology of the river otter, sea otter, and harp seal (Mammalia). *Canadian Journal of Zoology*, **50**(7): 915-929.
- U.S. Fish and Wildlife Service. (2021).** Marine Mammal Protection Act: Stock assessment report for the southern sea otter in California.
- VanBlaricom, G.R., Estes, J.A. (Eds.). (2012).** The community ecology of sea otters. (Vol. 65). Springer Science & Business Media. California Department of Fish and Wildlife, Sacramento, USA.
- VanBlaricom, G.G. (1984).** Relationships of sea otters to living marine resources in California: A new perspective. In: **Lyle, V. (ed.).** *Ocean Studies Symposium*, Asilomar, California, page 361. California Department of Fish and Game, Sacramento, California.
- Vandevere, J.E. (1970).** Reproduction in the southern sea otter. *Proceedings of the Annual Conference on Biological Sonar and Diving Mammals*, **7**: 1-7.
- Vandevere, J. (1972).** Behavior of southern sea otter pups. Proceedings of the Ninth Annual Conference of Biological Sonar and Diving Mammals. *Journal of the Marine Biological Association of the United Kingdom*, 21-35.
- VanWegenen, R.F., M.S. Foster, and F. Burns. (1981).** Sea otter predation on birds near Monterey, California. *Journal of Mammalogy*, **62**: 433-434.
- Watt, J., B. Krause, and T.M. Tinker. (1995).** Bald eagles kleptoparasitizing sea otters at Amchotka Island, Alaska. *Condor*, **97**: 588-590.
- Williams, T.M. (1989).** Swimming by sea otters: Adaptations for low energetic cost locomotion. *Journal of Comparative Physiology A*, **164**: 815-824.

Williams, T.M., R.A. Kastalien, R.W. Davis, J.A. Thomas. (1988). The effects of oil contamination and cleaning on sea otters (*Enhydra lutris*). I. Thermoregulatory implications based on pelt studies. *Canadian Journal of Zoology*, **66**: 2776-2781