

DAVID ROSEN

Refereed Journal Articles:

- Rea, L.D., Berman, M., Rosen, D.A.S., Trites, A.W., in press. Seasonal differences in biochemical adaptation to fasting in juvenile and subadult Steller sea lions (*Eumetopias jubatus*). *Physiological and Biochemical Zoology*.
- Fahlman, A.L., Hastie, G.D., Rosen, D.A.S., Naito, Y., Trites, A.W., 2008. Buoyancy does not affect diving metabolism during shallow dives in Steller sea lions *Eumetopias jubatus*. *Aquatic Biology* 3, 147-154.
- Fahlman, A.L., Wilson, R.P., Svard, C., Rosen, D.A.S., Trites, A.W., 2008. Activity and diving metabolism correlate in Steller sea lions (*Eumetopias jubatus*). *Aquatic Biology* 2, 75-84.
- Rosen, D.A.S., Kumagai, S., 2008. Hormone changes indicate that winter is a critical period for food shortages in Steller sea lions. *Journal of Comparative Physiology B* 178, 573-583.
- Hastie, G.D., Rosen, D.A.S., Trites, A.W., 2007. Oxygen consumption decreases during dives by Steller sea lions (*Eumetopias jubatus*). *Marine Mammal Science* 23, 272-286.
- Rea, L.D., Rosen, D.A.S., Trites, A.W., 2007. Utilization of stored energy reserves during fasting varies by age and season in Steller sea lions. *Canadian Journal of Zoology* 85, 190-200.
- Rosen, D.A.S., Fahlman, A.L., Trites, A.W., Hastie, G.D., 2007. Laboratory studies in wildlife conservation: The case of the Steller sea lion. *Comparative Biochemistry and Physiology A* 146, S84.
- Rosen, D.A.S., Winship, A.J., Hoopes, L.A., 2007. Thermal and digestive constraints to foraging behavior in marine mammals. *Philosophical Transactions, Royal Society of London B* 362, 2151-2168.
- Hastie, G.D., Rosen, D.A.S., Trites, A.W., 2006. The influence of depth on a breath-hold diver: predicting the diving metabolism of Steller sea lions (*Eumetopias jubatus*). *Journal of Experimental Marine Biology and Ecology* 336, 163-170.
- Kumagai, S., Rosen, D.A.S., Trites, A.W., 2006. Body mass and composition responses to short-term low energy intake are seasonally dependent in Steller sea lions (*Eumetopias jubatus*). *Journal of Comparative Physiology B* 176, 589-598.
- Trites, A.W., Porter, B.P., Deecke, V.B., Coombs, A.P., Rosen, D.A.S., 2006. Insights into the timing of weaning and the attendance patterns of lactating Steller sea lions (*Eumetopias jubatus*) in Alaska during winter, spring and summer. *Aquatic Mammals* 323, 85-97.
- Rosen, D.A.S., Trites, A.W., 2005. Examining the potential for nutritional stress in Steller sea lions: physiological effects of prey composition. *Journal of Comparative Physiology B* 175, 265-273.
- Willis, K., Horning, M., Rosen, D.A.S., Trites, A.W., 2005. Spatial variation of heat flux in swimming Steller sea lions: evidence for the importance of the body trunk in thermoregulation. *Journal of Experimental Marine Biology and Ecology* 315, 147-162.
- Rosen, D.A.S., Trites, A.W., 2004. Satiation and compensation for short-term changes in food quality and availability in young Steller sea lions (*Eumetopias jubatus*). *Canadian Journal of Zoology* 82, 1061-1069.
- McPhee, J.M., Rosen, D.A.S., Andrews, R.D., Trites, A.W., 2003. Predicting metabolic rate from heart rate for juvenile Steller sea lions (*Eumetopias jubatus*). *Journal of Experimental Biology* 206, 1941-1951.

- Rosen, D.A.S., Trites, A.W., 2003. No evidence for bioenergetic interaction between digestion and thermoregulation in Steller sea lions, *Eumetopias jubatus*. *Physiological and Biochemical Zoology* 76, 899-906.
- Tollit, D.J., Wong, M., Winship, A.J., Rosen, D.A.S., Trites, A.W., 2003. Quantifying errors associated with using prey skeletal structures from fecal samples to determine the diet of the Steller sea lion (*Eumetopias jubatus*). *Marine Mammal Science* 19, 724-744.
- Rosen, D.A.S., Trites, A.W., 2002. Cost of transport in Steller sea lions, *Eumetopias jubatus*. *Marine Mammal Science* 18, 513-524.
- Rosen, D.A.S., Trites, A.W., 2002. Changes in metabolism in response to fasting and food restriction in the Steller sea lion. *Comparative Biochemistry and Physiology B* 132, 389-399.
- Winship, A.J., Trites, A.W., Rosen, D.A.S., 2002. A bioenergetic model for estimating the food requirements of Steller sea lions (*Eumetopias jubatus*) in Alaska. *Marine Ecology Progress Series* 229, 291-312.

Book/Proceeding Editorship:

- Rosen, D.A.S., Trites, A.W. (Eds.) 2008. Workshop proceedings; Marine Mammals in the Lab: Tools for Conservation & Science, Vancouver, BC, Sept. 10-11, 2007. North Pacific Marine Universities Marine Mammal Research Consortium. 15 pages + appendices.

Published Conference Proceedings/Chapters:

Refereed:

- Hastie, G, Rosen, DAS, and Trites, AW. 2006. Studying trained Steller sea lions in the open ocean. Pages 193-204 *in* Sea lions of the world. (A.W. Trites, S.K. Atkinson, D.P. DeMaster, L.W. Fritz, T.S. Gelatt, L.D. Rea, and K.M. Wynne, eds.). Alaska Sea Grant College Program, University of Alaska Fairbanks.
- Rosen, DAS, Tollit, DJ, Winship, AJ and Trites, AW. 2006. Potential effects of short-term prey changes on sea lion physiology. Pages 103-116 *in* Sea lions of the world. (A.W. Trites, S.K. Atkinson, D.P. DeMaster, L.W. Fritz, T.S. Gelatt, L.D. Rea, and K.M. Wynne, eds.). Alaska Sea Grant College Program, University of Alaska Fairbanks.
- Tollit D, Heaslip, S, Deagle, B, Iverson, S, Joy, R, Rosen, DAS, and Trites, AW. 2006. Estimating diet composition in sea lions: which technique to choose? Pages 293-307 *in* Trites, A.W., S.K. Atkinson, D.P. DeMaster, L.W. Fritz, T.S. Gelatt, L.D. Rea, and K.M. Wynne (eds), Sea lions of the world. Alaska Sea Grant College Program, University of Alaska Fairbanks.
- Winship, AJ, Hunter, AMJ, Rosen, DAS, and Trites, AW. 2006. Food consumption by sea lions: existing data and techniques. Pages 171-191 *in* Sea lions of the world. (A.W. Trites, S.K. Atkinson, D.P. DeMaster, L.W. Fritz, T.S. Gelatt, L.D. Rea, and K.M. Wynne, eds.). Alaska Sea Grant College Program, University of Alaska Fairbanks.

Non-refereed:

- Fahlman, A.L., Svard, C., Wilson, R.P., Rosen, D.A.S., Trites, A.W., 2008. Cost of diving for food can be estimated for Steller sea lions by measuring their activity. In: Alaska Marine Science Symposium, Anchorage, AK, USA,
- Rosen, D.A.S., Fahlman, A.L., Trites, A.W., Hastie, G.D., 2007. Laboratory studies in wildlife conservation: The case of the Steller sea lion. *Comparative Biochemistry and Physiology A* 146, S84.
- Richmond, J.P., Jeanniard du Dot, T., Rosen, D.A.S., Zinn, S.A., 2006. Effects of prey composition on the endocrine response to nutrient restriction and re-alimentation in Steller sea lions (*Eumetopias jubatus*). In: *Symposia of the Comparative Nutrition Society*, vol. 6. Keystone, Colorado, pp. 136-141
- Rosen, D.A.S., Winship, A.J., Hoopes, L.A., 2006. Interacting physiological constraints to foraging behavior in marine mammals. In: *Symposia of the Comparative Nutrition Society*, vol. 6. Keystone, Colorado, pp. 151-156
- Hoopes, LA, Rea, LD, Rosen, DAS, and Worthy, GAJ. 2004. Effects of body condition on resting metabolism in captive and free-ranging Steller sea lions (*Eumetopias jubatus*). *Symposia of the Comparative Nutrition Society* 2004. No. 5, Pp 79-82.
- Rosen, DAS, Hastie, GD, and Trites, AW. 2004. Searching for stress: Hematological indicators of nutritional inadequacies in Steller sea lions. *Symposia of the Comparative Nutrition Society* 2004. No. 5, Pp 145-149.
- Rosen, DAS, and Trites, AW. 2002. Effects of a sub-maintenance, low-fat diet on body composition in Steller sea lions. In: Kirk Baer, C. L. (ed.), *Proceedings of the Joint Nutrition Symposium*, Antwerp, Belgium, August 2002, Pp. 75-77.
- Rosen, DAS, and Trites, AW. 2002. What is it about food? Examining possible mechanisms with captive Steller sea lions. In: DeMaster, D. and Atkinson, S. (eds.), *Steller Sea lion decline: Is It Food II?* University of Alaska Sea Grant, AK-SG-02-02, Fairbanks, Pp. 45-48.