

## **AMANDA M BISHOP, PhD**

Postdoctoral Researcher, Alaska SeaLife Center

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### **Academic Preparation**

Northern Michigan University

Zoology/Writing

B.Sc., 2009

Duke University

Coastal Environmental Management

MEM, 2011

Durham University

Behavioural Ecology

Ph.D., 2015

### **Professional Experience**

1. Postdoctoral Researcher, Alaska SeaLife Center. 9/2016-Current. Spatial ecology of marine mammals, habitat use and behavior, predator-prey interactions, telemetry and remote sensing.
2. Postdoctoral Fellow, University of Alaska Anchorage. 8/2015-9/2016. Health and ecology of Alaska Native subsistence resources, biosampling, infectious disease ecology and surveillance, community training and participatory research.
3. PhD Student, Durham University, England, UK. 2011-2015. Marine mammal behavioral ecology and evolution, reproductive strategies, interactions with human and natural disturbances.
4. Masters Student in Coastal Environmental Management, Duke University. 2009-2011. Interdisciplinary training in marine conservation biology, economics, environmental policy, and fisheries management.
5. Research Technician, Alaska SeaLife Center, Seward AK. 2009-2011. Population monitoring and habitat use of Alaskan pinnipeds, interactions with tourism, management implications.

### **Other appointments or positions held**

2016	Research Volunteer, Fur Seal Monitoring, NMML, St. Paul, AK, USA
2014	Senior Research Assistant, Pinniped Physiology, SMRU/Durham U., UK
2010-2011	Cetacean Survey Research Volunteer, Duke University Marine Lab, USA
2009-2010	Research Assistant, Duke University Wetland Center, USA
2007	Research Volunteer, Cetacean Research and Rescue Unit, Scotland, UK

### **Publications**

- Brownlow A, Onoufriou J, **Bishop A**, Davison N, Thompson D. **2016**. Corkscrew Seals: Grey Seal (*Halichoerus grypus*) Infanticide and Cannibalism May Indicate the Cause of Spiral Lacerations in Seals. PLoS ONE, 11(6): e0156464. doi:10.1371/journal.pone.0156464
- Bishop A**, Pomeroy P, and Twiss SD. **2015**. Variability in individual rates of aggression in wild grey seals: Fine-scale analysis reveals importance of social and spatial stability. Behavioral Ecology and Sociobiology, 69: 1663-1675.
- Bishop A**, Pomeroy P, and Twiss SD. **2015**. Breeding male grey seals exhibit similar activity budgets across varying exposures to human activity. Marine Ecology Progress Series, 527:247-259.
- Bishop A**, Denton P, Pomeroy P, and Twiss SD. **2015**. Good vibrations by the beach boys: Magnitude of substrate vibrations is a reliable indicator of male grey seal size. Animal Behaviour, 100:74-82.
- Bishop A**, Lidstone-Scott R, Pomeroy P, and Twiss SD. **2014**. Body slap: an innovative aggressive display of breeding male grey seals (*Halichoerus grypus*). Marine Mammal Science, 30: 579-593.
- Hoover-Miller A, **Bishop A**, Prewitt J, Conlon S, Jezierski C, and Armato P. **2013**. Efficacy of voluntary mitigation in reducing harbor seal disturbance. Journal of Wildlife Management, 77: 689-700.
- Bishop A**. **2011**. Selection of haul-out substrate by harbor seals (*Phoca vitulina*) associated with tidewater glaciers in Kenai Fjords National Park, Alaska. Masters Thesis, Duke University.
- Bishop A**, Hoover-Miller A, and Prewitt J. **2011**. Marine observational surveys in the Kenai Fjords: Final Report to the OASLC and the NPS. Alaska SeaLife Center. Seward, AK. 33p.

*In Review or In Prep*

- Bishop A**, Stewart JE, Pomeroy P, and Twiss SD. (In review). Temporal variation of reproductive effort within breeding seasons: Alternative mating tactics in tenured male grey seals. *Animal Behaviour*.
- Bishop A**, Rehberg M, Torres L, Brown C and Horning, M (In prep). Investigating juvenile Steller sea lion (*Eumetopias jubatus*) utilization distributions in the Gulf of Alaska: 2000-2014.
- Sattler R, **Bishop A**, Woodie K, and Polasek L. (In prep). Monitoring female sexual receptivity: testing the efficacy of identifying estrus by fecal estrone-3-glucuronide (E1G) and vaginal cytology in Steller sea lions (*Eumetopias jubatus*).
- Bishop A**, Burns J, and Bortz E. (In prep). qPCR surveillance for zoonotic and selected pathogens in pacific harbor seals in Alaska.
- Twiss S, Brannan N, **Bishop A**, and Pomeroy P. (In prep). Individual responses to stress: Linking behavioural types and physiological measures of coping styles in free-living animals.

**Synergistic Activities**

1. *Education and Outreach Activities*: I supervise summer research fellows, have given numerous talks and presentations to the public about my research, and manage and contribute to “60N Science”, the ASLC Science Blog ([http://www.alaskasealife.org/60n\\_science](http://www.alaskasealife.org/60n_science))
2. *Service to the scientific community*. I am a serving science member on the IACUC at the Alaska SeaLife Center. I have served as an external grant reviewer for NSF and as a reviewer for a variety of scientific journals. I also have served on graduate liaison and IT committees at Durham University.
3. *Professional Development Activities*: I was a founding member of Postdoctoral Association at UAA, and continue to contribute to the development of professional and research training workshops for postdoctoral researchers and graduate students.
4. *Collaborations*: I currently participate in cross-agency collaborations between the ASLC and the Alaska Department of Fish and Game, and previously have worked on collaborations between UAA, the Alaska Native Harbor Seal Commission and the Aleut Marine Mammal Commission. I also collaborate with researchers in the UK and have developed cross-disciplinary projects between biologists and geologists.

*Graduate and Postdoctoral advisors:*

**Dr. Markus Horning**, Postdoctoral Advisor, Alaska SeaLife Center, 2016-current

**Dr. Jennifer Burns**, Postdoctoral Advisor, Univ. of Alaska Anchorage, 2015-2016

**Dr. Sean Twiss**, Ph.D. Advisor, Durham University, UK, 2011-2015

Dr. Paddy Pomeroy, Ph.D. co-advisor, Sea Mammal Research Unit, St. Andrews Univ. UK, 2011-2015

**Dr. Andy Read**, MeM advisor, Duke University, 2009-2011