

## **AMY S. KENNEDY, Ph.D.**

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### EDUCATION

University of Paris, Center for Neurosciences. Ph.D. with high honors, 2013. Dissertation title:  
*Satellite telemetry and humpback whales: A tool for determining the habitat use, distribution, and  
behavior of an endangered large whale species.*  
Maine Maritime Academy, BSc. Magna Cum Laude, Ocean Science, 2000

### RESEARCH INTERESTS

Conducting telemetry research with applications in natural resource management and  
conservation; using fine-scale data to assess the overlap of marine mammal protected areas with  
dense cetacean habitat use.  
Using satellite telemetry to describe large whale foraging behavior, habitat use, and individual  
movement variation.  
Using Bayesian switching state-space modeled telemetry data to describe large whale foraging  
and migration.

### EXPERIENCE

Cetacean Research Biologist, National Marine Mammal Lab. (2008-present).  
JISAO (University of Washington) supervisor and Principal Investigator (2015-present)  
North Pacific Right Whale Project Lead, National Marine Mammal Lab. (2008- 2012).  
Telemetry Project Leads: N. Pacific Right Whale Study (NMML; 2008-2012), Arctic Whale  
Ecology Study, (NMML; 2012 to present), Guadeloupe and Dominican Republic Humpback  
Whale Telemetry Project (2010-2013)  
Satellite Tag deployment and project consultant: Strait of Magellan Humpback Whale Telemetry  
Project (Chile; 2011), Gulf of Maine Telemetry Study (USA; 2011-present), South African  
Cetacean Distribution Survey (South Africa; 2014), Arabian Sea Humpback Whale Telemetry  
Project (Oman; 2015-present)  
Aerial line-transect survey observer and data manager, ASAMM (2009-present)

### SKILLS/PROFICIENCY

Satellite tag deployment, Argos telemetry data processing, large whale biopsy collection  
Aerial and shipboard line transect survey planning, observing, and data management  
Small vessel operations, particularly in close proximity to large whales  
Photographic identification collection, database archiving, analysis, and catalogue curation  
Proficient with the following software: Wildlife computers (SPOTHost, MK10Host, and DAP),  
ArcGIS, ACDSee, EndNote, WinCruz, IMatch, Adobe Photoshop Lightroom CC, and R  
Experienced with personnel management as a chief scientist and supervisor on various projects

## PUBLICATIONS

- Clapham PJ and Kennedy AS. (2009) Calculation of the yield of meat and other products from fin and minke whales taken in Greenland. Paper. SC/61/AWMP6 presented to the International Whaling Commission Scientific Committee, Funchal, Madeira. June 2009.
- Clarke JT, Kennedy AS, Ferguson MC. (2016) Bowhead and gray whale distributions, sighting rates, and habitat associations in the eastern Chukchi Sea, Summer and Fall 2009-15, with a retrospective comparison to 1982-91. *Arctic* 69(4): 359-377.
- Dahlheim MD, Zerbini AN, Waite JM, and Kennedy AS. (2015) Temporal changes in abundance for harbor porpoise (*Phocoena phocoena*) inhabiting the inland waters of Southeast Alaska. *Fishery Bulletin* 113: 242-255.
- Findlay KP, Seakamela SM, Meÿer MA, Kirkman SP, Barendse J, Cade DE, Hurwitz D, Kennedy AS, Kotze PG, McCue SA, Thornton M. (2017) Humpback whale “super-groups”—A novel low-latitude feeding behaviour of Southern Hemisphere humpback whales (*Megaptera novaeangliae*) in the Benguela Upwelling System. *PloS one*. 1;12(3):e0172002.
- Garrigue C, Clapham PJ, Geyer Y, Kennedy AS, and Zerbini AN. (2015) Satellite tracking reveals novel migratory patterns and the importance of seamounts for endangered South Pacific humpback whales. *Royal Society Open Science* 2(11): 150489.
- Kennedy AS, Salden DR, and Clapham PJ. (2011) First high- to low-latitude match of an eastern North Pacific right whale (*Eubalaena japonica*). *Marine Mammal Science*: 28(4): E539-E544
- Kennedy AS, Zerbini AN, Rone BK, Clapham PJ. (2014) Individual variation in movements of humpback whales (*Megaptera novaeangliae*) satellite-tracked in the eastern Aleutian Islands and Bering Sea. *Endangered Species Research* 23: 187-195
- Kennedy AS, Zerbini AN, Vasquez OV, Gandilhon N, Clapham PJ, Adam O. (2013) Local and migratory movements of humpback whales (*Megaptera novaeangliae*) satellite tracked in the North Atlantic Ocean. *Canadian Journal of Zoology*: 8-17.
- Kennedy AS and Clapham, PJ. (2017) From Whaling to Tagging: The Evolution of North Atlantic Humpback Whale Research in the West Indies. *Marine Fisheries Review* (in press).
- LeDuc RG, Taylor BL, Martien KK, Robertson KM, Pitman RL, Salinas JC, Burdin AM, Kennedy AS, Wade PR, Clapham PJ, Brownell RL. (2013) Genetic analysis of right whale in the eastern North Pacific confirms severe extirpation risk. *Endangered Species Research*. doi: 10.3354/esr00440
- Robbins J, Zerbini AN, Gales NJ, Gulland F, Double MC, Clapham PJ, Andrews-Goff V, Kennedy AS, Landry SC, Mattila DK, and Tackaberry J. (2013) Satellite tag effectiveness and impacts on large whales: preliminary results of a case study with Gulf of Maine humpback whales. In *International Whaling Commission Scientific Committee*. Edited by International Whaling Commission, Jeju, South Korea. p. 10.
- Stevick PT, Berrow SD, Bérubé M, Bouveret L, Broms F, Jann B, Kennedy A, Suárez PL, Meunier M, Ryan C, Wenzel F. (2016) There and back again: multiple and return exchange of humpback whales between breeding habitats separated by an ocean basin. *Journal of the Marine Biological Association of the United Kingdom*: 1;96(04):885-90
- Wade P, Kennedy AS, LeDuc RG, Barlow J, Carretta J, Shelden K, Perryman W, Pittman R, Robertson K, Rone B, Salinas JC, Zerbini A, Brownell R, and Clapham PJ. (2011) The World's Smallest Whale Population? *Biology Letters* 7: 83-85.
- Wade P, De Robertis, A, Hough K, Booth R, Kennedy AS, LeDuc R, Munger L, Napp J, Shelden K, Rankin S, Vasquez O, and Wilson C. (2011) Rare detections of North Pacific right whales in

the Gulf of Alaska, with observations of their potential prey. *Endangered Species Research* 13: 99-109.

Zerbini AN, Baumgartner MF, Kennedy AS, Rone BK, Wade PR, Clapham PJ. (2014) Ecological and management implications of endangered North Pacific right whale (*Eubalaena japonica*) space-use patterns in the Bering Sea. *Marine Ecology Progress Series*: Vol. 532: 269-281.

#### CONFERENCE PRESENTATIONS

Kennedy AS and Robbins J. Entanglement risk of bottom feeding humpback whales in the Gulf of Maine inferred from jaw scuffing analysis. 2005 Poster Presentation at the 16<sup>th</sup> Biennial Marine Mammal Conference; 12/12-12/16/2005. San Diego, CA.

Kennedy AS, Zerbini AN, Rone BK, and Clapham PJ. Eastern North Pacific right whales; They do exist! 2010 Poster Presentation at the 2010 Alaska Marine Science Symposium. 01/17-01/22/10. Anchorage, AK

Kennedy AS, Zerbini AN, Vasquez O, Clapham P, Gandilhon N, Geyer Y, and Adam O. Individual Variation in Movements of Humpback Whales (*Megaptera novaeangliae*) from Two Populations Satellite-Tracked in the Bering Sea and West Indies. Poster Presentation at the 19<sup>th</sup> Biennial Marine Mammal Conference; 11/28-12/03/2011. Tampa, FL.

Kennedy AS, Zerbini AN, Robbins J, Clapham PJ, Lindstrom T. Assessing implantable satellite tag extrusion using light sensors. Poster Presentation at the 20<sup>th</sup> Biennial Marine Mammal Conference; 12/08-12/13/2013. Dunedin, New Zealand.

Kennedy AS, Zerbini AN, Clapham PJ, and Robbins J. The use of Argos-monitored satellite tags as a tool for understanding large whale ecology and management. Oral presentation at the International User Conference on Argos Wildlife Applications. 11/17-11/19/2014. Baltimore, MD (USA).

Kennedy, A.S., Rone, B.K., Zerbini, A.N., Clapham, P.J. Fine-scale movement and dive behavior of gray whales satellite-tracked in the northern Bering and Chukchi Seas. Oral presentation at the 21<sup>st</sup> Biennial Marine Mammal Conference, San Francisco, CA, 13-19 December, 2015.

Kennedy, A.S., Stevick, P. Migratory movements of North Atlantic humpback whales revealed by telemetry and photographic identification. Oral presentation at the Large Whale Migration Workshop, 21<sup>st</sup> Biennial Marine Mammal Conference, San Francisco, CA, 13-19 December, 2015.

#### PROFESSIONAL AFFILIATIONS AND SERVICE

IWC North Pacific Humpback Whale Comprehensive Assessment Working Group, 2017

Advisory Team for the Arctic Animal Telemetry Network, 2014-present

Manuscript Reviewer for *Latin American Journal of Aquatic Mammals*, *Aquatic Mammals*, *Polar Biology*, *Canadian Journal of Zoology*, and *Marine Mammal Science*

Seattle Audubon Society, 2009-present

Society for Marine Mammalogy, 2005-present

REFERENCES: AVAILABLE UPON REQUEST