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EDUCATION: B.S., Oregon State University, Biology, 2006
B.A., Oregon State University, International Studies, 2006
Ph.D., University of California at San Diego, Oceanography, 2015

PROFESSIONAL EXPERIENCE: Postdoctoral Researcher, Scripps Institution of Oceanography,
University of California, San Diego 2015 – Present

RESEARCH INTERESTS: Marine mammal population census with passive acoustics;
Detection and classification marine mammal vocalizations;
Gulf of Mexico and North Atlantic delphinid echolocation.

COLLABORATORS: John Hildebrand (Scripps), Simone Baumann-Pickering (Scripps),
Elizabeth Henderson (SPAWAR), Danielle Harris (St. Andrews), Len
Thomas (St. Andrews), Tiago Marques (St Andrews), Marie Roch
(SDSU), Lance Garrison (NOAA SEFSC), Melissa Soldevilla (NOAA
SEFSC), Lynne Hodge (Duke).

Recent Peer-Reviewed Publications:

Five Most Relevant to Proposed Project

- Frasier, K. E., Roch, M. A., Soldevilla, M. S., Wiggins, S. M., Garrison, L. P., Hildebrand, J. A.
Classification of dolphin echolocation click types in the Gulf of Mexico using analyst and
automated methods. (In Prep).
- Frasier, K. E., Wiggins, S. M., Harris, D., Marques, T. A., Thomas, L., Hildebrand, J. A. Delphinid
echolocation click detection probability on near-seafloor sensors. (2016). *J. Acoust. Soc. Am.*
140: 1918.
- Hildebrand, J. A., Baumann-Pickering, S., Frasier, K. E., Trickey, J. S., Merkens, K. P., Wiggins, S. M.,
McDonald, M. A., Garrison, L. P., Harris, D., Marques, T. A., and Thomas, L. (2015). "Passive
acoustic monitoring of beaked whale densities in the Gulf of Mexico," *Scientific Reports* 5,
16343.
- Frasier, K. E. (2015). Density estimation of delphinids using passive acoustics: A case study in the Gulf
of Mexico. Scripps Institution of Oceanography, UCSD, La Jolla, CA.

Frasier, K. E., Wiggins, S. M., Harris, D., Marques, T. A., Thomas, L., Merkens, K. P. & Hildebrand, J. A. (2015). Gulf of Mexico Oil Spill & Ecosystem Science. Passive acoustic monitoring of dolphins in the Gulf of Mexico: 2010-2013. *in* Monitoring status and trends of long-lived marine vertebrates as a measurable indicator of restoration and long-term health of the Gulf of Mexico ecosystem, Gulf of Mexico Conference Special Session. Houston, TX.

Five Additional Publications

Frasier, K. E., Elizabeth Henderson, E., Bassett, H. R., & Roch, M. A. (2016). Automated identification and clustering of subunits within delphinid vocalizations. *Marine Mammal Science*. Published online 7 February 2016, DOI: 10.1111/mms.120303.

Frasier, K. E., Debich, A. J., Hildebrand, J. H., Rice, A. C., Brewer, A.M., Herbert, S. T., Thayre, B. J., Wiggins, S. M., Baumann-Pickering, S., Širovic, A., Hodge, L. E.W. and Read, A. J. Passive Acoustic Monitoring for Marine Mammals in the Jacksonville Range Complex August 2014 – May 2015. *Marine Physical Laboratory Technical Memorandum 602*. Scripps Institution of Oceanography, University of California San Diego, La Jolla, CA (2016).

Frasier, K. E., Wiggins, S. M., Marques, T. A., Merkens, K. P., Harris, D., Thomas, L., & Hildebrand, J. A. (2014). Passive acoustic monitoring of sperm whales (*Physeter macrocephalus*) in the Gulf of Mexico: From detection to density estimation. *Gulf of Mexico Oil Spill & Ecosystem Science Conference*. Mobile, AL.

Frasier, K. E., Wiggins, S. M., Marques, T. A., Harris, D., Thomas, L. Merkens, K. P., Roch, M. A., and Hildebrand, J. A. Gulf of Mexico Pelagic Dolphin Density Trends from Passive Acoustics. *Gulf of Mexico Oil Spill and Ecosystem Science Conference*, Tampa, FL. 1-4 February, 2016.

Wiggins, S.M., K.E. Frasier, E.E. Henderson, J.A. Hildebrand. (2013) Tracking dolphin whistles using an autonomous acoustic recorder array. *J. Acoust.Soc. Am.*, 133 (6), 3813-3818.