

Sea-Bird Scientific

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Physical oceanographer with expertise in instrumentation, data acquisition, data processing, data management, science communication, and scientific visualization.

Education	<p>University of Washington 2010 Ph.D. Physical Oceanography</p> <p>University at Albany-State University of New York 2002 M.S. Physics</p> <p>University at Albany-State University of New York 2000 B.S Physics, B.A. Fine Arts, Magna cum laude</p>
Employment	<p>Sea-Bird Scientific 09/2016-Present Senior Oceanographer</p> <p>NOAA Pacific Marine Environmental Laboratory (PMEL) 01/2016-09/2016 Research Associate, Physical Oceanography</p> <p>University of Washington and NOAA PMEL 10/2013-12/2015 JISAO Postdoctoral Fellow, Physical Oceanography</p> <p>University of Alaska, Fairbanks 08/2010-09/2013 Postdoctoral Researcher, Physical Oceanography</p>
Publications	<p>Martini, K.I., D.J. Murphy, R.W. Schmitt, and N.G. Larson, Corrections for pumped SBE41CP CTDs determined from stratified tank experiments. <i>Submitted to J. Tech</i></p> <p>Martini, K.I., and Z. Szuts. Ten years of temporal and spatial low- mode internal wave variability in the Atlantic Basin at 26N. <i>In preparation.</i></p> <p>Martini K.I., Hutchings, J.K., and Rigor I.G., Sea ice deformation in the Arctic from 2000-2010. <i>In Preparation.</i></p> <p>Martini, K.I. Walsh, I.D. Branham, C.W.. (2017). Measuring Nitrate in Puget Sound using Optical Sensors : Calibration, correction strategies for obtaining accurate data. <i>Sea Technology.</i> 58. 10-13.</p> <p>Martini, K.I., P. Stabeno, C. Ladd, P. Winsor, T. Weingartner, C. Mordy and L. Eisner (2016), Dependence of subsurface chlorophyll on seasonal water masses in the Chukchi Sea, <i>J. Geophys. Res-Oceans,</i> 121.</p>

Martini, K.I., H.L. Simmons, and S.L. Danielson (2016), Trends in energy available for the generation of internal waves by winds in the Arctic, *in preparation*.

Bik H.M., Dove A.D.M., Goldstein M.C., Helm R.R., MacPherson R., **Martini K.**, Warneke, A and McClain C.(2015). **Ten Simple Rules for Effective Online Outreach**. *PLoS Comput Biol* 11(4): e1003906. doi:10.1371/journal.pcbi.1003906

Martini, K. I., Simmons, H. L., Stouidt, C. A., and Hutchings, J. K. (2014). **Near-inertial internal waves and sea ice in the Beaufort Sea**. *J. Phys. Oceanogr.*, 44(8), 2212-2234.

Martini, K. I., M. H. Alford, J. D. Nash, S. M. Kelly and E. Kunze (2013), **Internal bores and breaking internal tides on the Oregon continental slope** *J. Phys. Oceanogr.*, 43, 120-139. doi: 10.1175/JPO-D-12-030.1

S. M. Kelly, J. D. Nash, **K. I. Martini**, M. H. Alford, and E. Kunze (2012), **The Cascade of Tidal Energy from Low to High Modes on a Continental Slope**, *J. Phys. Oceanogr.*, 42, 1217-1232. doi: 10.1175/2011JPO4581.1

Martini, Kim I., Matthew H. Alford, Eric Kunze, Samuel M. Kelly, Jonathan D. Nash, 2011: **Observations of internal tides on the Oregon continental slope**, *J. Phys. Oceanogr.*, 41, 17721794. doi:10.1175/2011JPO4581.1

Martini, K. I., E. Frajka-Williams, C. Mouw (2009), **Conference Report - The Pattullo Conference: Building Community through Mentoring**, *Oceanography* 22(1):226227.

Martini, K. I., M. H. Alford, J. D. Nash, E. Kunze, and M. A. Merrifield (2007), **Diagnosing a partly standing internal wave in Mamala Bay, Oahu**, *Geophys. Res. Lett.*, 34, L17604.

Nash, J. D., M. H. Alford, E. Kunze, **K. Martini**, and S. Kelly (2007), **Hotspots of deep ocean mixing on the Oregon continental slope**, *Geophys. Res. Lett.*, 34, L01605.

Presentations

Poster presentation: AGU Ocean Sciences February 2018
Dynamic corrections for Sea-Bird Surface Temperature Salinity Sensors (STS) on ARGO profiling floats

Oral presentation: AGU Ocean Sciences February 2016
Ten years of temporal and spatial low- mode internal wave variability in the Atlantic Basin at 26N

Poster presentation: Alaska Marine Science Symposium Jan 2015
Internal wave generation and propagation in the Chukchi Sea

Oral presentation: NOAA PMEL and University of Washington April 2014
Fukushima radiation: What it is and what it may mean to you.

Oral presentation: AGU Ocean Sciences February 2014
Arctic internal waves: Seasonal cycles and predicted trends.

Oral presentation: SFOS University of Alaska, Fairbanks February 2013
Using social media to get more out of your science

Oral presentation: IPY Montreal Conference April 2012
Arctic near-inertial internal waves observations on the Beaufort Slope

Oral presentation: AGU Ocean Sciences February 2012
Near-inertial internal waves and mixing on the Beaufort Slope

Poster presentation: Les Houches Internal Waves Workshop February 2011

Arctic near-inertial internal waves observations on the Beaufort Slope

Poster presentation: AGU Ocean Sciences February 2010
Internal tides and mixing on the Oregon continental slope

Oral presentation: WHOI Physical Oceanography Seminar October 2009
Internal waves and mixing on the Oregon continental slope

Poster: Gordon Coastal Oceanography Conference, New London NH June 2009
Remotely-generated internal waves shoaling on the Oregon Continental Slope

Poster: PIMS Internal Wave Meeting, Seattle WA October 2008
Shoaling, remotely-generated internal waves on the Oregon Continental Slope

Oral presentation: MPOWIR Patullo Conference May 2008
Local- and remotely-generated internal waves on the Oregon Continental Slope

Oral presentation: AGU Ocean Sciences February 2008
Local- and remotely-generated internal waves on the Oregon Continental Slope

Oral presentation: University of Victoria May 2007
Diagnosing an internal standing wave in Mamala Bay, Hawaii

Poster: AGU Ocean Sciences February 2006
Group Velocity: Diagnosing standing and propagating waves in Mamala Bay, Hawaii

Service and Outreach

Reviewer for the Journal of Physical Oceanography, Journal of Geophysical Research: Oceans and the National Science Foundation.

Organized JISAO and NOAA Hollings Scholars to participate in a Puget Sound research cruise, which included assisting with the deployment of a subsurface mooring (2014).

Public lecture "Fukushima: Where it is and what it may mean to you" at the Whatcom County Marine Resources Committee Meeting in Bellingham, WA (2014)

Invited guest lecturer at University of Washington Engage Science Speaker Series and Seminar (2014-2016).

Writer and webmaster at popular marine science science blog [Deep Sea News](#)

Awards

JISAO Postdoctoral Fellow at the University of Washington Oct. 2013-Present

University of Albany Physics College Scholar Award Sept. 2000 - May 2002

Recipient of the Rebecca Ann Oliver Memorial Scholarship Award May 2000

NCAA Division I Academic All-American for Women's Lacrosse May 2000

Teaching

Lead Instructor, Sea-Bird University 10/2017-Present

Teaching Assistant, Ocean 210 University of Washington 10/2008

Supervisor, Physics Lab Classes SUNY University at Albany 2000-2002

