

## Sea-Bird Scientific

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

Education	University of Washington	2010
	Ph.D. Physical Oceanography	
	University at Albany-State University of New York	2002
	M.S. Physics	
	University at Albany-State University of New York	2000
	B.S Physics, B.A. Fine Arts, Magna cum laude	
Employment	Sea-Bird Scientific	09/2016-Present
	Senior Oceanographer	
	NOAA Pacific Marine Environmental Laboratory (PMEL)	01/2016-09/2016
	Research Associate, Physical Oceanography	
	University of Washington and NOAA PMEL	10/2013-12/2015
	JISAO Postdoctoral Fellow, Physical Oceanography	
	University of Alaska, Fairbanks	08/2010-09/2013
	Postdoctoral Researcher, Physical Oceanography	
	University of Washington Applied Physics Laboratory	08/2003-08/2010
	Research Assistant, Physical Oceanography	
	University at Albany, State University of New York	09/2000-06/2002
	Research Assistant, Physics	
Refereed Publications	Martini, K.I., D.J. Murphy, R.W. Schmitt, and N.G. Larson (2019). Corrections for pumped SBE41CP CTDs determined from stratified tank experiments. <i>In press at J. Tech</i>	
	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.	
	K. Lu, T. Weingartner, S. Danielson, P. Winsor, E. Dobbins, K. Martini and H. Statscewich (2015). Lateral mixing across ice meltwater fronts of the Chukchi Sea shelf. <i>Geophys. Res. Lett.</i>	

42(16), 6754-6761.

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., Stoudt, 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):226-227.

**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.

#### **Publications in preparation**

**Martini, K.I.** and D.J. Murphy, Corrections for pumped SBE41CP CTDs determined from stratified tank experiments. *In preparation for J.Tech*

**Martini, K.I.**, D.J. Murphy, and N.G. Larson, Corrections for pumped SBE41CP CTDs determined from Argo Float Data. *In preparation for J. Tech*

**Martini, K.I.**, and Z. Szuts. Ten years of temporal and spatial low- mode internal wave variability in the Atlantic Basin at 26N. *In preparation.*

**Martini K.I.**, Hutchings, J.K., and Rigor I.G., Sea ice deformation in the Arctic from 2000-2010. *In Preparation.*

**Martini, K.I.**, H.L. Simmons, and S.L. Danielson (2018), Trends in energy available for the generation of internal waves by winds in the Arctic, *in preparation.*

#### **Non-Refereed Publications**

**Martini, K.I.**, Walsh, I.D. and Branham, C.W.(2017). **Measuring Nitrate in Puget Sound using Optical Sensors: Calibration, correction strategies for obtaining accurate data.** *Sea Technology.* 58. 10-13.

**Martini, K.I.** (2017). **Sea-Bird's Inductive Modem System: Providing Real-Time Data from NOAA PMEL Ocean Climate Station Moorings.** *Ocean News and Technology.*

Ian D. Walsh, Jochen Klinke, **Kim I. Martini**, and David J. Murphy (2017). [Perspectives for Accuracy and Quality Assurance of CTD & Biochemical Data Streams from Autonomous Platforms](#). *ALPS-II White Papers*

**Kim I. Martini** and Miriam Goldstein (2014). [The Ocean Cleanup, Part 2: Technical review of the feasibility study](#). Deep-Sea News.

**Kim I. Martini** (2013). [True facts about Ocean Radiation and the Fukushima Disaster](#). Deep-Sea News.

<b>Presentations</b>	<b>Oral presentation: Argo Delayed-mode QC Workshop for CTD data</b>	December 2018
	Is my salinity correctable? Drift and fouling in SBE 41cps	
	<b>Oral presentation: 19th Argo Data Management Meeting</b>	December 2018
	Recent developments in the cell thermal mass correction	
	<b>Poster presentation: Ocean Salinity Science Conference</b>	November 2018
	Temperature and Salinity Drift in Sea-Bird Moored CTDs	
	<b>Oral presentation: Biogeochemical Profiling Float Workshop</b>	July 2018
	Navis BGCi float and BGC sensor performance	
	<b>Oral Presentation: Argo Steering Team Meeting 19</b>	March 2018
	Updates and improvements to the Sea-Bird NAVIS fleet and SBE 41cp CTDs	
	<b>Poster presentation: AGU Ocean Sciences</b>	February 2018
	Dynamic corrections for Sea-Bird Surface Temperature Salinity Sensors (STS) on ARGO profiling floats	
	<b>Oral presentation: Argo Technical Meeting</b>	September 2017
	Corrections for pumped SBE 41cp CTDs determined from stratified tank experiments	
	<b>Oral presentation: AGU Ocean Sciences</b>	February 2016
	Ten years of temporal and spatial low- mode internal wave variability in the Atlantic Basin at 26N	
	<b>Poster presentation: Alaska Marine Science Symposium</b>	Jan 2015
	Internal wave generation and propagation in the Chukchi Sea	
	<b>Oral presentation: NOAA PMEL and University of Washington</b>	April 2014
	Fukushima radiation: What it is and what it may mean to you.	
	<b>Oral presentation: AGU Ocean Sciences</b>	February 2014
	Arctic internal waves: Seasonal cycles and predicted trends.	
	<b>Oral presentation: SFOS University of Alaska, Fairbanks</b>	February 2013
	Using social media to get more out of your science	
	<b>Oral presentation: IPY Montreal Conference</b>	April 2012
	Arctic near-inertial internal waves observations on the Beaufort Slope	
	<b>Oral presentation: AGU Ocean Sciences</b>	February 2012
	Near-inertial internal waves and mixing on the Beaufort Slope	
	<b>Poster presentation: Les Houches Internal Waves Workshop</b>	February 2011
	Arctic near-inertial internal waves observations on the Beaufort Slope	

	<b>Poster presentation: AGU Ocean Sciences</b> Internal tides and mixing on the Oregon continental slope	February 2010
	<b>Oral presentation: WHOI Physical Oceanography Seminar</b> Internal waves and mixing on the Oregon continental slope	October 2009
	<b>Poster: Gordon Coastal Oceanography Conference, New London NH</b> Remotely-generated internal waves shoaling on the Oregon Continental Slope	June 2009
	<b>Poster: PIMS Internal Wave Meeting, Seattle WA</b> Shoaling, remotely-generated internal waves on the Oregon Continental Slope	October 2008
	<b>Oral presentation: MPOWIR Patullo Conference</b> Local- and remotely-generated internal waves on the Oregon Continental Slope	May 2008
	<b>Oral presentation: AGU Ocean Sciences</b> Local- and remotely-generated internal waves on the Oregon Continental Slope	February 2008
	<b>Oral presentation: University of Victoria</b> Diagnosing an internal standing wave in Mamala Bay, Hawaii	May 2007
	<b>Poster: AGU Ocean Sciences</b> Group Velocity: Diagnosing standing and propagating waves in Mamala Bay, Hawaii	February 2006
<b>Service and Outreach</b>	Advisory board member for the MarXiv Project and OCTO Plastic Hub  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 <a href="#">Deep Sea News</a>	
<b>Awards</b>	JISAO Postdoctoral Fellow at the University of Washington  University of Albany Physics College Scholar Award  Recipient of the Rebecca Ann Oliver Memorial Scholarship Award  NCAA Division I Academic All-American for Women's Lacrosse	Oct. 2013 - Dec. 2015  Sept. 2000 - May 2002  May 2000  May 2000
<b>Teaching</b>	Lead Instructor, Sea-Bird University  Teaching Assistant, Ocean 210 University of Washington	10/2017-Present  10/2008

