

Joint Institute for the Study of the Atmosphere and Ocean
University of Washington
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Research Interests Internal waves, mixing, polar oceanography, ocean instrumentation and biophysical interactions. Oceanographic data processing, management, and dissemination. Science outreach.

Employment and Education **University of Washington and NOAA PMEL** October 2013-current
JISAO Postdoctoral Fellow, Physical Oceanography
Supervisor: Phyllis Stabeno, (206) 526-6453 phyllis.stabeno@noaa.gov

University of Alaska, Fairbanks August 2010-September 2013
Postdoctoral Researcher, Physical Oceanography
Supervisor: Harper Simmons, (907) 474-5729 hsimmons@sfos.uaf.edu
Supervisor: Peter Winsor, (907) 474-7740 pwinsor@alaska.edu

University of Washington August 2010
Ph.D. Physical Oceanography
Advisor: Matthew H. Alford, (206) 221-3257 malford@apl.washington.edu

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

Publications **Martini, K.I.**, H.L. Simmons, and S.L. Danielson (2014), Trends in energy available for the generation of internal waves by winds in the Arctic, *in preparation*.

Holly M. Bik, Alistair D.M. Dove, Miriam C. Goldstein, Rebecca Helm, Rick MacPherson, **Kim Martini**, Alexandria Warneke, and Craig McClain (2014). Ten simple rules for effective online outreach. *Submitted to PLOS Computational Biology*.

Hutchings, J.K., **Martini K.I.** and Rigor I.G. (2014), Sea ice deformation in the Arctic from 2000-2010. *Submitted to Geophysical Research Letters*.

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. *in press at Journal of Physical Oceanography*.

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.

Funding Wave processes along 26N, Z. Szuts and K. I. Martini. National Science Foundation-Physical Oceanography

Service and Outreach Reviewer for the Journal of Physical Oceanography 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).

Regular contributor to 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

Data sharing and management **International Arctic Buoy Program (IABP)** PI: Jenny Hutchings
Compiling Arctic Buoy location data into a quality quality controlled product to be submitted to the National Snow and Ice Data Center (NSIDC) to be used across various platforms.

Acrobat Towed Platform Data Acquisition System PI: Peter Winsor
Designed data acquisition system for Sea Sciences Acrobat towed instrument platform, integrating data streams into a realtime display and high resolution archiving. 2012 and 2013 sections submitted to the Distributed Biological Observatory (DBO).

Fieldwork **NOAA EcoFOCI mooring deployment cruise and survey** April 2014
PI: Carol Ladd *Bering Sea, Alaska*
Assisted in chemical sampling, chlorophyll filtering, bongo net operations and mooring deployment.

Chukchi and Western Beaufort Sea Surface Currents August 2012
PI: Peter Winsor *Chukchi Sea, Alaska*
Responsible for setup, deployment, and recovery of Acrobat Towed Profiling System.

Chukchi Sea Surface Currents September 2010
PI: Tom Weingartner and Peter Winsor *Point Lay, Alaska*
Assisted with the setup of a seasonal CODAR station.

Internal Waves Across the Pacific (IWAP) April-June 2006
PI: Matthew Alford, Rob Pinkel, Jen MacKinnon, Kraig Winters, Walter Munk *R/V Revelle*
Programmed, prepared, deployed and recovered instruments for 6 deep-sea moorings including McLane Moored Profilers, SeaBird Microcats and temperature loggers and Aanderaa Current Meters. Responsible for processing shipboard CTD data and Seabird mooring data.

Internal Waves and Mixing on the Near-Critical Oregon Slope September 2005
PI: Jonathan Nash, Matthew Alford, Eric Kunze *R/V Wecoma*
Duties similar to those in IWAP cruises.

Hood Canal Mooring Deployment October 2006-Current
PI: Matthew Alford *R/V Miller and R/V Barnes*
Assisted in deployment and recovery of Hood Canal Dissolved Oxygen Program mooring.

Aegean Sea Cruise October 2004
PI: Mike Gregg, Matthew Alford *R/V Oceanus*
Monitored and assisted in the operation of a free-fall microstructure profiler (AMP) and towed CTD package (SWIMS). Assisted in calibration of shear and temperature microstructure probes.

Professional Memberships American Geophysical Union

Additional skills Programming in Matlab, Python, and DASylabs
Speaks both colloquial German and Spanish
Extensive experience in small powercraft operations
First Aid and CPR certified
Machine shop experience (mill, lathe, drillpress and bandsaw)

Presentations

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

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

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

May 2007

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

February 2006