

JESSICA J. MASICH

Scripps Institution of Oceanography, University of California, San Diego
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EDUCATION

Scripps Institution of Oceanography, University of California, San Diego

M.S. in Oceanography received Fall 2012

Ph.D. in Physical Oceanography expected Fall/Winter 2016

Advisor: *Teresa K. Chereskin*

Committee: *Sarah Gille, Matthew Mazloff, Dean Roemmich, Sutanu Sarkar, Lynne Talley*

The University of Chicago

B. A. in Physics with General Honors, minor in Environmental Studies received June 2008

RESEARCH AND WORK EXPERIENCE

Scripps Institution of Oceanography, La Jolla, CA

Ph.D. Candidate, Nov 2013 – present

Graduate Student Researcher, July 2010 – Nov 2013

- **Field work:** cDrake Experiment mooring recovery and LADCP data processing aboard R/V Palmer in Drake Passage, Nov-Dec 2011
- **Teaching:** Teaching Assistant for Lynne Talley's graduate class Introduction to Physical Oceanography, Fall 2015

Environmental Protection Agency, Region 5, Chicago, IL

Environmental Scientist and Clean Water Act Enforcement Officer, July 2008 – July 2010

Woods Hole Oceanographic Institution, Woods Hole, MA

Summer Student Fellow with Ray Schmitt, June 2007 – September 2007

FELLOWSHIPS AND AWARDS

National Defense Science and Engineering Graduate Fellowship, September 2011 – September 2014

University of California Regents Graduate Fellowship, September 2010 – September 2011

Honorable mention, National Science Foundation Graduate Research Fellowship Program, 2011

Environmental Protection Agency Bronze Medal for Exceptional Service, 2009

PAPERS

Masich, J., T. K. Chereskin, and M. R. Mazloff (2015), Topographic form stress in the Southern Ocean State Estimate, *J. Geophys. Res. Oceans*, 120, 7919–7933, doi:10.1002/2015JC011143.

MANUSCRIPTS IN PREPARATION

Masich, J., T. K. Chereskin, and M. Mazloff. Interfacial form stress in the Southern Ocean. *In prep.*

PRESENTATIONS

Masich, J., T. K. Chereskin, and M. R. Mazloff. Momentum balance in the Southern Ocean. PC14D2091, 2016. Poster presentation at Ocean Sciences Meeting, New Orleans, LA, Feb 2016.

- Millar, J. J., T. K. Chereskin, and D. R. Watts. Four-year observations of interfacial form stress in the northern Drake Passage. 14505, 2014. Poster presentation at Ocean Sciences Meeting, Honolulu, HI, Feb 2014.
- Millar, J. J., T. K. Chereskin, and M. Mazloff. Exploring the Southern Ocean State Estimate in the Drake Passage: Assimilation and Analysis of an Inverted Echo Sounder Array. Oral and poster presentation at C-SOBOM NSF Science and Technology Center review Student and Postdoc Symposium, Princeton NJ, Oct 2012.
- Millar, J. J., S. T. Gille, J. Sprintall, and M. Frantz. Assessing XCTD fall-rate errors using concurrent XCTD and CTD profiles in the Southern Ocean. OS21F-1565, 2010. Poster presentation at American Geophysical Union Fall Meeting, San Francisco CA, Dec 2010.
- Millar, J. J. and R. W. Schmitt. Parameterizing the mixing due to salt fingers. 873, 2008. Poster presentation at Ocean Sciences Meeting, Orlando FL, Feb 2008.
- Millar, J. J., C. Orellana, and N. Mujica. Experimental characterization of supercritical bifurcation in the presence of noise. Poster presentation at the Southern Workshop on Granular Materials, Vina del Mar, Chile, 2006.