

Education

- 2018 Ph.D. in Oceanography, Scripps Institution of Oceanography, UC San Diego
2012 B.Sc (Oceanography) with Honors, University of Washington

Professional Experience

- 2018-present Postdoctoral Fellow, University of New South Wales and Centre for Southern Hemisphere Oceans Research
2012-2018 Graduate Student Researcher, Scripps Institution of Oceanography
2010-2012 Student Research and Laboratory Assistant, Prof. Paul Quay, Stable Isotope lab, University of Washington, Department of Oceanography

Honors and Awards

- 2012-2013 George Mitchell Fellowship for graduate study at SIO
2012 Scholar-Athlete award, University of Washington
2012 Pac-12 Postgraduate Scholarship

Professional Service

- 2019- present Education and Outreach Committee Chair, Australian Meteorological and Oceanographic Society
2017- present Reviewer, Nature Communications, Nature Climate Change, Geophysical Research Letters, Journal of Geophysical Research: Oceans
2013- present Member, American Geophysical Union, Australian Meteorological and Oceanographic Society

Peer-reviewed Publications

- Tamsitt, V., M. R. Mazloff, and L. D. Talley, (2019). A Deep Eastern Boundary Current carrying Indian Deep Water south of Australia, *Journal of Geophysical Research: Oceans*.
- Cerovečki, I., A. J. Meijers, M. R. Mazloff, S. T. Gille, V. Tamsitt, and P. R. Holland, (2019). The effects of enhanced sea ice export from the Ross Sea on recent cooling and freshening of the Southeast Pacific, *Journal of Climate*.
- Ogle, S. E., V. Tamsitt, S. A. Josey, S. T. Gille, I. Cerovečki, L. D. Talley, and R. A. Weller, (2018). Episodic Southern Ocean heat loss and its mixed layer impacts revealed by the furthest south multi-year surface flux mooring, *Geophysical Research Letters*
- Tamsitt, V., Abernathy, R. P., Mazloff, M. R., Wang, J., & L.D. Talley, (2018). Transformation of deep water masses along Lagrangian upwelling pathways in the Southern Ocean. *Journal of Geophysical Research: Oceans*.
- Tamsitt, V., Drake, H., Morrison, A. K., Talley, L. D., Dufour, C. O., Gray, A. R., Griffies, S. M., Mazloff, M. R., Sarmiento, J. L., Wang, J. and W. Weijer, (2017). Spiraling pathways of global deep waters to the surface of the Southern Ocean. *Nature Communications*, 8, 172.

Alberty, M.S., Billheimer, S., Hamann, M.M., Ou, C.Y., Tamsitt, V., Lucas, A.J., Alford, M.H., (2017). A reflecting, steepening, and breaking internal tide in a submarine canyon. *JGR:Oceans*

Tamsitt, V., Talley, L., Mazloff, M. and Cerovečki, I., (2016). Zonal variations in the Southern Ocean heat budget. *J. Climate*, 29(18), 6563-6579

Selected Conference and Workshop Participation

Tamsitt, V. 2018, I. Cerovečki, S. Josey, S. Gille and E. Schulz. *Comparison of variability in air-sea heat fluxes and Subantarctic Mode Water formation from concurrent mooring observations in the Southeast Indian and Southeast Pacific*, AGU Fall meeting, Washington D.C., USA

Tamsitt, V., 2018, L. Talley, and M. Mazloff, 2018. *Structure and dynamics of an Indian Deep Eastern Boundary Current along the southern coast of Australia*, Oral Presentation, Ocean Sciences Meeting, Portland, USA

Ogle, S., V. Tamsitt, S., Josey, S. Gille, I. Cerovečki, L. Talley, and R. Weller, 2018. *Extreme heat flux events and their impact on Subantarctic Mode Water formation revealed by the Southern Ocean OOI mooring*, Poster Presentation, Ocean Sciences Meeting, Portland, USA

Tamsitt, V., M. R. Mazloff, and L. D. Talley, 2018, *An Indian Deep Water pathway along the south coast of Australia*, Oral Presentation, AMOS-ICSHMO Meeting, Sydney, Australia

Tamsitt, V., 2017. *Pathways of upwelling deep waters to the surface of the Southern Ocean*, Oral Presentation, EGU Annual meeting, Vienna, Austria

Tamsitt, V., 2017. *Pathways of upwelling deep waters to the surface of the Southern Ocean*, Oral Presentation, NCAR Southern Ocean Workshop, Boulder, USA

Tamsitt, V., L. Talley, and M. Mazloff, 2016. *Connecting sources of circumpolar deep water to the Antarctic continental shelf using lagrangian pathways*, Oral Presentation, AGU Fall meeting, San Francisco, USA

Tamsitt, V., L. Talley, J. Wang, and M. Mazloff, 2016. *Lagrangian pathways of deep water upwelling in the Southern Ocean State Estimate*, Poster Presentation, Ocean Sciences Meeting, New Orleans, USA

Tamsitt, V., L. Talley, I. Cerovečki, and M. Mazloff, 2016. *Zonal variations in the Antarctic Circumpolar heat budget*, Invited Poster Presentation, Ocean Sciences Meeting, New Orleans, USA

Tamsitt, V., L. Talley, I. Cerovečki, and M. Mazloff, 2015. *Southern Ocean State Estimate air-sea heat fluxes and the ACC heat budget*, Oral Presentation, SOOS/WCRP/ESA Air-sea flux Workshop, Frascati, Italy

Tamsitt, V., L. Talley, I. Cerovečki, and M. Mazloff, 2015. *Zonal variations in the Southern Ocean heat budget*, Oral Presentation, IUGG meeting, Prague, Czech Republic

Teaching Experience

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| 2019 | Instructor, CAPSTAN 2019 voyage on the RV Investigator. |
| 2015-2018 | Research mentor, undergraduate student, Southern Ocean air-sea heat flux project (resulting in publication Ogle et al. 2018) |
| 2015-2017 | Instructor, UCSD Academic Connections Global Environmental Leadership and Sustainability Program, San Diego and Washington D.C. |
| 2012 | Teaching Assistant (UW), <i>Introduction to Oceanography Lab</i> , Professor: Susan Hautala |
| 2011 | Teaching Assistant (UW), <i>Oceanography of the Pacific Northwest</i> , Professor: Mikelle Nuwer |

Sea-going Experience

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| Apr – May 2019 | Instructor and CTD lead: CAPSTAN, RV Investigator, Chief Scientist: Leah Moore (Univ. of Canberra). (10 DAS) |
| Oct – Nov 2018 | Invited Scientist, Southern Ocean: <i>DEFLECT</i> , RV Investigator, Chief Scientist: Nathan Bindoff (UTAS). (31 DAS) |
| July 2016 | Chief Scientist, San Diego Bay: <i>GOTO:SEE</i> , RV Sproul. (2 DAS) |
| Dec 2015 - Jan 2016 | CTD samples and float deployments, data analysis, Southern Ocean: <i>OOI Southern Ocean II</i> . RV Palmer, Chief Scientist: Sebastien Bigorre (WHOI). (30 DAS) |
| Dec 2015 | CTD watchstander, co-PI, Southern California coast: <i>LaJIT experiment</i> . RV Sproul, Chief Scientist: Matthew Alford (SIO). (3 DAS) |
| Mar – May 2014 | CTD watchstander, South Pacific: <i>U.S. Repeat Hydrography section P16S</i> . RV Palmer, Chief scientist: Lynne Talley (SIO). (48 DAS) |
| April 2012 | CTD watchstander, Nitrous Oxide analyst, Eastern tropical North Pacific: <i>Control of Denitrification and Anammox in Oxygen Minimum Zones (OMZs)</i> , RV Thompson, Chief Scientist: Allan Devol (UW). (10 DAS) |