

BIOGRAPHICAL SKETCH – SAMANTHA SIEDLECKI

Assistant Professor
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PROPOSAL ROLE

Samantha Siedlecki is an Assistant Professor at the University of Connecticut (UConn). Her research focuses on using idealized and realistic biogeochemical simulations of the coastal environment to understand processes in the coastal ocean. She is part of the Coastal Biogeochemical Dynamics Laboratory at the University of Connecticut. Processes of interest include export, retention, and the impacts of freshwater on regional biogeochemistry. She views modeling as an integration of theory, models, and observations which will shape her role in this integrative work.

PROFESSIONAL PREPARATION:

Eckerd College	B.S., Marine Science	2002
University of Chicago	Ph.D., Geophysical Sciences	2010
University of Washington	Postdoctoral Fellow JISAO/PCC	2010

APPOINTMENTS:

2017-present	Assistant Professor, Dept. of Marine Sciences, University of Connecticut
2012-2017	Research Scientist, JISAO, University of Washington
2010-2012	JISAO/PCC Postdoctoral fellowship, University of Washington, Oceanography
2002-2010	Graduate Assistant, University of Chicago

PUBLICATIONS MOST RELEVANT TO PROPOSAL

1. **Siedlecki, S. A.**, Pilcher, D. J., Hermann, A. J., Coyle, K., & Mathis, J. (2017). The importance of freshwater to spatial variability of aragonite saturation state in the Gulf of Alaska. *Journal of Geophysical Research: Oceans*, 122. <https://doi.org/10.1002/2017JC012791>
2. **Siedlecki, S.A.**, Kaplan, I.C., Hermann, A., Nguyen, T., Bond, N., Williams, G., Newton, J., Peterson, W. T., Alin, S., and R.A. Feely (2016) Experiments with Seasonal Forecasts of ocean conditions for the Northern region of the California Current upwelling system, *Nature: Scientific Reports*, 6, doi:10.1038/srep27203
3. **Siedlecki, S.A.**, Banas, N., Davis, K.A., Giddings, S., Hickey, B.M., MacCready, P., Connolly, T., and S. Geier, Seasonal and interannual oxygen variability on the Washington and Oregon continental shelves, (2015), *J. Geophys. Res. Oceans*, 120, DOI: 10.1002/2014JC010254
4. **Siedlecki, SA**, Mahadevan, A, and Archer, DE (2012) The Coastal Ocean as a Supplier of Global Iron: Mechanisms for Iron Export in an Upwelling Regime, *Geophysical Research Letters* 39, DOI:10.1029/2011GL050366
5. **Siedlecki SA**, Archer, DE, and Mahadevan, A (2011) Mechanisms for nutrient exchange and ventilation in the coastal ocean: an idealized model for the East Coast of the US, *Journal of Geophysical Research – Oceans* 116

SYNERGISTIC ACTIVITIES

1. Co-author NCA4 Chapter on Oceans and Marine Resources (2016 - 2018)
2. Co-author SOCCR Chapter on Coastal Oceans (2016 - 2018)

3. Co-lead for N. CCS NACP Coastal Synthesis (2011-2018) and co-author on the CCARS synthesis report (2016)
4. Eastern Pacific Ocean Conference co-chair (2015)
5. Co-Chief Scientist, Leg 1, P16N (2015)
6. Invited talks: OCB (2019), GOA-ON (2016;2019), Columbia (2019), Stonybrook (2019), AGU (2018), UMass Dartmouth (2018), WHOI (2018), Texas A&M (2016), Gordon Research Conference on Coastal Ocean Modeling (2015), OAIRUG (2015), CALCOFI Symposium (2014), University of Washington, IPOC (2013), University of South Florida (2013), United States Naval Academy (2013), FOCI NOAA-PMEL (2011), University of Wisconsin (2010).
7. Academic Service: Reviewer for *GRL*, *JGR-Oceans*, *Journal of Physical Oceanography*, *Science of the Total Environment*, *Biogeosciences*, *Progress in Oceanography*, *Global Biogeochemical Cycles*, *Science*, *ICES Journal of Marine Science*; Panelist for NASA and reviewer for NSF