

## CURRICULUM VITAE

### **PERSONAL INFO:**

Samantha Siedlecki  
College of Liberal Arts and Sciences  
Department of Marine Sciences  
University of Connecticut  
1080 Shennecossett Rd.  
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[samantha.siedlecki@uconn.edu](mailto:samantha.siedlecki@uconn.edu)  
<https://samanthasiedlecki.wordpress.com/>

### **EDUCATION:**

- 2010 University of Chicago, Department of Geophysical Sciences, Chicago, IL  
PhD: *The Role of the Bottom Boundary Layer in Biogeochemical Cycles of the Coastal Ocean*. Advisor: David Archer
- 2002 Eckerd College, St. Petersburg, FL  
B.S. Marine Science, Concentration: Marine Geology  
Thesis: *Pleistocene Orbital-Scale Depositional Cycles along the Shelf Margin of the Great Australian Bight: Paleoclimatic Implications*. Advisor: Gregg Brooks

### **PROFESSIONAL AND RESEARCH EXPERIENCE:**

- 2019-present NSF/NCAR Early Career Faculty Innovator Program
- 2017-present *Assistant Professor*, Department of Marine Sciences, College of Liberal Arts and Sciences, University of Connecticut
- 2012-2017 *Research Associate*, Joint Institute for the Study of the Atmosphere and Ocean (JISAO), Univ. of Washington
- 2016, 2018, 2020 *Kavli Fellow*, participant, Chinese-American Kavli Frontiers of Science symposium
- 2015 (April –May) *Co-Chief Scientist*, CLIVAR Repeat Hydrography Cruise Leg 1 of P16, April 2015
- 2010-2012 *Postdoctoral Research Fellow*, Joint Institute for the Study of the Atmosphere and Ocean (JISAO) and Program on Climate Change (PCC), University of Washington
- 2010 *Participant*, Dissertations in Chem. Oceanography (DISCO) XXII
- 2002-2010 *Graduate Research Assistant*, Department of Geophysical Sciences, University of Chicago
- 2000 -2002 *Research Assistant*, Paleoceanography Lab, Univ. of South Florida
- 1998-2002 *Undergraduate Research Assistant*, Department of Marine Science, Eckerd College

### **PEER-REVIEWED PUBLICATIONS:**

20. Katja Fennel, Simone Alin, Leticia Barbero, Wiley Evans, Timothee Bourgeois, Sarah Cooley, John Dunne, Richard A. Feely, Jose Martin Hernandez-Ayon, Xiping Hu, Steven Lohrenz, Frank Muller-Karger, Raymond Najjar, Lisa Robbins, Elizabeth Shadwick, **Samantha Siedlecki**, Nadja Steiner, Adrienne Sutton, Daniela Turk, Penny Vlahos, and Zhaohui Aleck Wang (accepted) Carbon cycling in the North American coastal ocean: A synthesis. *Biogeosciences*
19. John A Barth, Susan E Allen, Edward P Dever, Richard K Dewey, Wiley Evans, Richard A Feely, Jennifer L Fisher, Jonathan P Fram, Burke R Hales, Debby Ianson, Jennifer Jackson, Stanley Kim Juniper, Orest Kawka, Deborah Kelley, Jody M Klymak, John Konovsky, Michael Kosro, Alexander Kurapov, Emilio Mayorga, Parker MacCready, Jan A Newton, R Ian Perry, Craig Miller Risien, Marie Robert, Tetjana Ross, R Kipp Shearman, Joe Schumacker, **Samantha Siedlecki**, Vera L Trainer, Stephanie Waterman, Christopher E Wingard (*accepted*) Better Regional Ocean Observing through Cross-National Cooperation: A Case Study from the Northeast Pacific *Frontiers in Marine Science*
19. Alistair J. Hobday, Jason R. Hartog, Andrew J. Pershing, John Manderson, Katherine E. Mills, Matthew J. Oliver, **Samantha Siedlecki** (2019) Ethical considerations and unanticipated consequences associated with ecological forecasting for marine resources. *ICES Journal of Marine Science*
18. Pershing, A.J., R.B. Griffis, E.B. Jewett, C.T. Armstrong, J.F. Bruno, D.S. Busch, A.C. Haynie, S.A. Siedlecki, and D. Tommasi, 2018: Oceans and Marine Resources. In Impacts, Risks, and Adaptation in the United States: Fourth National Climate Assessment, Volume II [Reidmiller, D.R., C.W. Avery, D.R. Easterling, K.E. Kunkel, K.L.M. Lewis, T.K. Maycock, and B.C. Stewart (eds.)]. U.S. Global Change Research Program, Washington, DC, USA. doi: 10.7930/NCA4.2018.CH9
17. Pilcher, D.J., D.M. Naiman, J.N. Cross, A.J. Hermann, **S.A. Siedlecki**, G.A. Gibson, J.T. Mathis (2019) Natural and anthropogenic drivers of aragonite saturation state in the Bering Sea. *Front. Mar. Sci.* 5:508. doi: 10.3389/fmars.2018.00508
16. Pilcher, D.J., **Siedlecki, S.A.**, Hermann, A.J., Coyle, K.O., Mathis, J.T., W. Evans (2018) Simulated impact of high alkalinity glacial runoff on CO<sub>2</sub> uptake in the Coastal Gulf of Alaska, *Geophysical Research Letters*, 45, 880–890. <https://doi.org/10.1002/2017GL075910>
15. **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>
14. Bednaršek, N., R.A. Feely, N. Tolimieri, A.J. Hermann, **S.A. Siedlecki**, H.O. Pörtner, G.G. Waldbusser, P. McElhany, S.R. Alin, and J. Menkel

- (2017): Exposure history determines pteropod vulnerability to ocean acidification along the US West Coast. *Scientific Reports* 7, Article number: 4526, doi:10.1038/s41598-017-03934-z
13. Carter, B.R., Feely, R.A., Mecking, S., Cross, J. N., Macdonald, A.M., **Siedlecki, S.A.** Talley, L., Sabine, C. L., Millero, R., Swift, J.H. , and Dickson, A. G., (2017) Two Decades of Pacific Anthropogenic Carbon Storage and Ocean Acidification Along GO-SHIP Sections P16 and P02, *Global Biogeochem. Cycles*, 31, doi:10.1002/2016GB005485.
  12. Tommasi, D., Stock, C., Hobday, A., Methot, R., Kaplan, I., Eveson, P., Holsman, K., Miller, T., Gaichas, S., Gehlen, M., Pershing, A., Vecchi, G., Msadek, R., Delworth, T., Eakin, M., Haltuch, M., Sefarian, R., Spillman, C., Hartog, J., **Siedlecki, S.**, Samhour, J., Muhling, B., Asch, R., Pinsky, M., Saba, V., Kapnick, S., Gaitan, C., Rykaczewski, R., Alexander, M., Xue, Y., Pegion, K., Lynch, P., Payne, M., Kristiansen, T., Lehodey, P., and C. Werner. (*accepted*) Managing living marine resources in a dynamic environment: the role of seasonal to decadal climate forecasts, *Progress in Oceanography*
  11. S. McClatchie, A. R. Thompson, S. R. Alin, S. J. Bograd, **S.A. Siedlecki**, W. Watson, (2016) The influence of Pacific Equatorial Water on fish diversity in the southern California Current System, *JGR-Oceans*, doi:10.1002/2016JC011672
  10. **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
  9. Harrison, C.S., Hales, B., **Siedlecki, S.A.**, and Samelson, R.M., Potential and timescales for oxygen depletion in coastal upwelling systems: Idealized model analysis (2016) *JGR-Oceans* 121, doi:10.1002/2015JC011328.
  8. Kaplan, I. C., Williams, G. D., Bond, N. A., Hermann, A. J. and **Siedlecki, S. A.** (2016), Cloudy with a chance of sardines: forecasting sardine distributions using regional climate models. *Fisheries Oceanography*, 25: 15–27. doi: 10.1111/fog.12131
  7. **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
  6. Davis, K. A., N. S. Banas, S. N. Giddings, **S. A. Siedlecki**, P. MacCready, E. J. Lessard, R. M. Kudela, and B. M. Hickey (2014), Estuary-enhanced upwelling of marine nutrients fuels coastal productivity in the U.S. Pacific Northwest, *J. Geophys. Res. Oceans*, 119, 8778–8799, doi:[10.1002/2014JC010248](https://doi.org/10.1002/2014JC010248).
  5. Giddings, SN, MacCready, P, Hickey, BM, Banas, NS, Davis, KA, **Siedlecki, SA**, Trainer, VL, Kudela, RM, Pelland, NA, and Connolly, TP.

- (2014) Hindcasts of harmful algal bloom transport on the Pacific Northwest coast, *JGR-oceans*, 119(4), 2439-2461. doi: 10.1002/2013/JC009622.
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
  3. **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**
  2. Loubere P, **Siedlecki SA**, and Bradtmiller LI (2007) Organic carbon and carbonate fluxes: Links to climate change *DEEP-SEA RESEARCH PART II-TOPICAL STUDIES IN OCEANOGRAPHY* **54** (5-7): 437-446
  1. Brunner, C.A., Andres, M., Holbourn, A.E., **Siedlecki, S.**, Brooks, G.R., Molina Garza, R.S, Fuller, M.D., Ladner, B.C., Hine, A.C., and Li, Q., 2002. Quaternary planktonic foraminiferal biostratigraphy, ODP Leg 182 sites. In Hine, A.C., Feary, D.A., and Malone, M.J. (Eds.), Proc. ODP, Sci. Results, 182 [Online]. Available from World Wide Web: <[http://www.odp.tamu.edu/publications/182\\_SR/011/011.htm](http://www.odp.tamu.edu/publications/182_SR/011/011.htm)>.

#### **IN PREP PUBLICATIONS:**

1. Antonietta Capotondi, Michael Jacox, Chris Bowler, Maria Kavanaugh, Patrick Lehodey, Daniel Barrie, Stephanie Brodie, Samuel Chaffron, Wei Cheng, Daniela Faggiani Dias, Damien Eveillard, Lionel Guidi, Daniele Iudicone, Nicole Lovenduski, Janet A Nye, Ivonne Ortiz, Douglas E Pirhalla, Mercedes Pozo Buil, Vincent Saba, Scott C. Sheridan, **Samantha Siedlecki**, Aneesh Subramanian, Colomban De Vargas, Emanuele Di Lorenzo, Scott C Doney, Albert J Hermann, Terrence Joyce, Mark Merrifield, Arthur J Miller, Fabrice Not, Stephane Pesant (in review) Observational Needs Supporting Marine Ecosystems Modeling and Forecasting *Frontiers in Marine Science*
2. Bronte Tilbrook, Elizabeth B. Jewett, Michael D. DeGrandpre, Jose Martin Hernandez-Ayon, Richard Alan Feely, Dwight Kuehl Gledhill, Lina Hansson, Kirsten Isensee, Meredith L. Kurz, Jan A Newton, **Samantha A. Siedlecki**, Fei Chai, Sam Dupont, Michelle Ivette Graco, Eva Calvo, Dana Greeley, Lydia Kapsenberg, Marine Lebrec, Carles Pelejero, Katherina Schoo, Maciej Telszewski (in review) An Enhanced Ocean Acidification Observing Network: From People to Technology to Data Synthesis and Information Exchange *Frontiers in Marine Science*
3. L. Schmeisser, N. A. Bond, **S. A. Siedlecki**, & T. P. Ackerman, (submitted) Cloud and Radiative Effects of a Northeast Pacific Marine Heat Wave *JGR-Atmospheres*

**FUNDING:**

WOAC (2017-2019) Proposal for development of an Ocean Acidification forecast model (PIs MacCready, Siedlecki, McCabe)

NOAA OAP (2018-2020) Enhancement of an existing ocean forecast system to include ocean acidification (PIs Alin, Feely, Siedlecki, Hermann, Bednarsek)

Wendy Schmidt Foundation (2016-2018) Evaluating Local Impacts of Ocean Acidification on the U.S. West Coast (PIs Klinger, Newton, MacCready, Deutsch, Siedlecki)

NOAA MAPP (2017-2020) Title: Downscaled seasonal forecasts for living marine resource management off the US west coast (PIs Jacox, Hazen, Edwards, Fiechter, Alexander).

NOAA MAPP (2017-2020) Title: Experiments with Seasonal Forecasts of ocean conditions in the Pacific Northwest to aid the crab fishery (PIs Siedlecki, Kaplan, Hermann, Bond, Alin, Newton, Alexander)

**PRIOR FUNDING:**

NOAA FATE (2016-2018) Title: Short-term forecasting of Pacific hake distribution in the California Current Ecosystem (PIs Hunsicker, Brodeur, Haltuch, Hicks, Kaplan, Parker-Stetter, Bond, Hermann, Newton, Siedlecki: 0 months support per year)

NOAA OAP (2015-2017) Enhancement of an existing ocean forecast system to include ocean acidification (PIs Alin, Feely, Siedlecki, Hermann, Bednarsek)

WOAC (2015-2017) Proposal for development of an Ocean Acidification forecast model (PIs MacCready, Siedlecki, McCabe: 4 months of support)

NASA (2013-2016) Novel Blending of Numerical/Statistical Models and Satellite Data to Improve Coastal Ocean Water Quality Predictions, (PIs Anderson, Kudela, Banas, Kahru, Siedlecki: 2 weeks support per year)

NOAA FATE (2013-2016) Refinement of J-SCOPE Forecast System for the California Current Integrated Ecosystem Assessment, (PIs Kaplan, Bond, Hermann, Levin, Newton, Peterson, Siedlecki: 3 months support per year)

AOOS (2013-2016) Creating a Coastal Carbon Model for the Northern Gulf of Alaska to Determine the Controls and Extent of Ocean Acidification Events in the Region (PIs Mathis, Siedlecki: 10 months of support)

NSF-OCE (2012-2015) Collaborative Research: Modeling coastal oxygen production and carbon sequestration, (PIs Samelson, Hales, Ackerman, Siedlecki: 1 month support per year Siedlecki)

WOAC (2013-2015) Proposal for development of an Ocean Acidification forecast model (PIs MacCready, Banas, Siedlecki: 11 months of support)

**FIELD EXPERIENCE:**

2015 *RV Brown*, 34 days, Co-Chief Scientist, CLIVAR Repeat Hydrography Cruise Leg 1 of P16, April-May  
2007, 2009 *RV Corwith Cramer*, 7 days, Teaching Assistant, University of Chicago, Oceanography course at sea, June  
2009 *RV Wecoma*, 20 days, Carbon measurements assistant (pCO<sub>2</sub>, TCO<sub>2</sub>, nutrients, oxygen sampling), SUCCESS cruise off the Oregon coast, June and August  
2006 *RV Thompson*, 28 days, CTD watchstander, CLIVAR Repeat Hydrography Cruise Leg 2 of P16 N

**TEACHING EXPERIENCE:**

2013 Carbon and Climate – co-taught with Abby Swann, UW, Winter Quarter, graduate students  
2015 Guest lectures – Carbon and Climate, Winter; Ethics of Geoengineering, Winter Quarter  
2018 Reaction and Transport, Spring Quarter; Seminar course, Fall Quarter; Field Course in Oceanography, Fall Quarter  
2019 Reaction and Transport, Spring Quarter; Biogeochemical modeling, Fall Quarter

**PRESENTATIONS:**

**Invited Talks**

**Future:**

Columbia University, May 2019  
OCB Summer Workshop, WHOI, June 2019  
SCOR-IOC programme GlobalHAB joint with GO<sub>2</sub>NE, UNESCO, Paris, June 2019

**Past:**

GOA-ON meeting, Hangzhou, China, April 2019  
Stonybrook University, March 2019  
AGU Fall Meeting, December 2018 – invited poster  
UMass, October 2018  
WHOI, August 2018  
Rutgers University, November 2017

Kavli Frontiers of Science US-China symposium, October 2016

- The workshop, Forecasting ENSO Impacts on Marine Ecosystems of the US West Coast, *August 2016*  
Texas A&M. January, 2016, *Predicting Hypoxia and Ocean Acidification of the coastal waters of the CCS: What do we know and what can we expect?*
- Gordon Research Conference – Coastal Ocean Modeling. June, 2015, *Predicting Hypoxia and Ocean Acidification in coastal waters: What do we know and what can we expect?*
- OAI RUG – Ocean acidification, getting ahead of the curve, Monaco, January, 2015, *Forecast Models: How good are they and how can we validate them?*
- CALCOFI Symposium - Prediction of the California Current System, Scripps Institute of Oceanography, December, 2014: *Predicting Hypoxia and Ocean Acidification of the coastal waters of the CCS: What do we know and what can we expect?*
- PCC seminar, University of Washington. November 2013: *Seasonal Forecasting of Hypoxia and Ocean Acidification on the Washington Shelf*
- IPOC seminar, University of Washington. November, 2013: *Seasonal Forecasting of Hypoxia and Ocean Acidification on the Washington Shelf*
- Chemical Oceanography seminar, University of South Florida, February, 2013: *Connecting the Biogeochemistry of the Coastal Ocean with the Open Ocean: The Role of the Bottom Boundary Layer*
- Oceanography Seminar, United States Naval Academy, March, 2013: *Connecting the Biogeochemistry of the Coastal Ocean with the Open Ocean: The Role of the Bottom Boundary Layer*
- FOCI seminar, NOAA – PMEL, February, 2011: *The role of the bottom boundary layer in biogeochemical cycles of coastal upwelling systems*
- University of Wisconsin – Madison. August, 2010: *The role of the bottom boundary layer in biogeochemical cycles of the coastal ocean*

### **Seminars and other Presentations:**

#### **2017**

#### **2016**

**Siedlecki, S.A.**, MacCready, P., McCabe, R., Barth, J., Durski, S., and Newton, J. Ocean Acidification of the Pacific Northwest Coastal Waters: A Modeling Study ASLO/AGU Ocean Sciences, New Orleans, Feb 2016

Nguyen, T., **Siedlecki, S.A.**, Ackerman, T., Bond, N., Hermann, A., and Newton, J. Impact of shortwave radiation biases on ocean conditions in the Pacific Northwest waters: Results from the seasonal forecast system J-SCOPE. ASLO/AGU Ocean Sciences, New Orleans, Feb 2016

#### **2015**

**Siedlecki, S.A.**, Alin, S. et al. Closing the North American Carbon Budget: Continental Margin Fluxes Matter! AGU Fall Meeting, San Francisco, December, 2015

#### **2014**

**Siedlecki, S.A.**, Bond, N., Hermann, A., Feely, R., Alin, S., Hales, B., and Newton, J. Hypoxia and Ocean Acidification of the coastal waters of the Pacific Northwest: Evaluation of seasonal predictions of hypoxia and pH. ASLO/AGU Ocean Sciences, Hawaii, Feb 2014

### 2013

**Siedlecki, S.A.**, Bond, N., Hermann, A., Feely, R., Alin, S., Hales, B., and Newton, J. Ocean Acidification of the coastal waters of the Pacific Northwest: A modeling study. AGU Fall Meeting, San Francisco, CA, 2013

**Siedlecki, S.A.**, Bond, N., Hermann, A., Feely, R., Alin, S., Hales, B., and Newton, J. Hypoxia and Ocean Acidification of the coastal waters of the Pacific Northwest: Evaluation of seasonal predictions from a regional model forced with the Coupled Forecast System (CFS). CERF, San Diego, CA, 2013

### 2012

**Siedlecki, S.A.**, Banas, N., Davis, K.A., Giddings, S., MacCready, P., Connolly, T., and Hickey, B. The Role of the Slope Currents in Seasonal Oxygen variability on the Pacific Northwest Continental Shelves. AGU/ASLO Ocean Sciences Meeting, Salt Lake City, 2012.

### 2011

**Siedlecki, S.A.**, Banas, N., Davis, K.A., Giddings, S., MacCready, P., Connolly, T., and Hickey, B. The role of slope currents in determining the chemistry of upwelling source waters –A closer look at seasonal oxygen variation in the Pacific Northwest. Pacific Northwest Climate Conference, Seattle, 2011.

**Siedlecki, S.A.**, Banas, N., Davis, K.A., Giddings, S., MacCready, P., Connolly, T., and Hickey, B. The role of slope currents in determining the chemistry of upwelling source waters –A closer look at seasonal oxygen variation in the Pacific Northwest. Gordon Research Conference on Coastal Oceanography, Massachusetts, 2011

### 2010

**Siedlecki, S A**, D. E. Archer, B. Hales, M. Segura-Noguera, and A. Mahadevan (2010). A Model for Export of Particulate Organic Carbon in Eastern Boundary Upwelling Systems, Abstract OS32B-06, presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec

Segura-Noguera, M., Ferron, S., **Siedlecki, S. A.**, Hales, B., and Ho, D. T., 2010b. Changes in the Chemical Composition of the Bottom Boundary Layer During an Upwelling Event at the Oregon Coast. Abstract OS23A-1574 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.

**Siedlecki, SA**, Mahadevan, A., and Archer, DE, (2010) The Coastal Ocean as a Supplier of Global Iron: Mechanisms for Iron Export in an Upwelling Regime *Eos Trans. AGU*, 91(26), Ocean Sci. Meet. Suppl., Abstract IT45A-24



Archer, DE, **Siedlecki, SA**, and Jokulsdottir, T (2010) High Resolution Measurements of Particle Size Distributions in a Coastal Upwelling System *Eos Trans. AGU*, 91(26), Ocean Sci. Meet. Suppl., Abstract GO35B-07

Hales, BR, Segura-Noguera, M, Hebert, D, Shearman, RK, and **Siedlecki, SA** Seasonal and higher frequency wind controls on the nearshore biogeochemistry of an Eastern Boundary upwelling system (Invited) *Eos Trans. AGU*, 91(26), Ocean Sci. Meet. Suppl., Abstract IT44A-05

Segura-Noguera, M, Hales, BR, **Siedlecki, SA**, Jennings, J, and Hubbard, D (2010) High-frequency ammonium measurements during an upwelling event at the Oregon coast *Eos Trans. AGU*, 91(26), Ocean Sci. Meet. Suppl., Abstract IT45A-20

### **2009**

**Siedlecki, SA**, Mahadevan, A., and Archer, DE, (2009) The Coastal Ocean as a Supplier of Global Iron: Mechanisms for Iron Export in an Upwelling Regime. Eastern Pacific Ocean Conference

**Siedlecki, SA**, Mahadevan, A., and Archer, DE, (2009) The Coastal Ocean as a Supplier of Global Iron: Mechanisms for Iron Export on Both Coasts. Gordon Conference on Coastal Ocean Circulation

### **2008**

**Siedlecki, S.A.**, Mahadevan, A., and Archer, D., (2008), The Role of Shelf Break Upwelling Along the East Coast of the US in the Coastal Carbon Cycle: A Model's Tale, *Eos Trans. AGU*, 89(53), Fall. Meet. Suppl., Abstract OS53C-1322.

### **2007**

**Siedlecki, S.A.**, Mahadevan, A., and Archer, D.E., (2007) Modeling the supply of nutrients to the coastal ocean: The role of a shelf break front. Gordon research conference on Coastal Ocean Modeling.

### **2006**

**Deringer, S.A.**, Mahadevan, A., Hales, B., and Archer, D.E., (2006), The Role of the Benthic Boundary Layer in Frontal Stability and Cross-shelf Exchange: An Idealized Model of the East Coast of the United States, *Eos Trans. AGU*, 87(52), Ocean Sci. Meet. Suppl., Abstract OS11C-1506.

Jokulsdottir, T., **Deringer, S.**, and Archer, D., (2006), A One Dimensional Model of Particle Flux in the Water Column, *Eos Trans. AGU*, 87(36), Ocean Sci. Meet. Suppl., Abstract OS26A-23

**Deringer, S. A.**, Archer, D.E., and Mahadevan, A., (2006), Cross-Shelf Exchange and the Coastal Organic Carbon Cycle: an Idealized Model of the East Coast of the United States, *Eos Trans. AGU*, 87(36), Ocean Sci. Meet. Suppl., Abstract OS25G-23

**2005**

**Deringer, S. A.**, Archer, D.E., and Mahadevan, A., (2005), How do Particle Dynamics on a Passive Margin Influence the Coastal Carbon Cycle?: An Idealized Model of the East Coast of the United States, *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract OS51A-0557.

Jokulsdottir, T., Archer, D.E., and **Deringer, S.A.** (2005) The Control of Ballast on the Particulate Organic Carbon Sinking Flux to the Seafloor. Chapman Conference on the Role of Marine Organic Carbon and Calcite Fluxes in Driving Global Climate Change, Past and Future

**2004**

**Siedlecki, S.A.**, Archer, D., and Mahadevan, A. (2004), Export and Cycling of Continental Shelf Carbon: A Modeling Study, *Eos Trans. AGU*, 85(47), Fall Meet. Suppl., Abstract OS41B-0482

**Siedlecki, S.A.**, Archer, D., and Mahadevan, A. An Idealized Model of Organic Carbon Dynamics on the Continental Margin of the Eastern United States. *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract OS31C-0215, 2003

**Siedlecki, S.A.**, Brooks, G.R., Brunner, C., Hine, A.C., Flower, B.P., Hastings, D.W., and Mallinson, D., Shelf Sediment Export Controlled by Pleistocene Ice Volume Fluctuations From the Cool Water Carbonate Slope of the Great Australian Bight: ODP Site 1130. *Eos Trans. AGU*, 82(47), Fall Meet. Suppl., Abstract PP52A-0566, 2001

**PROFESSIONAL SERVICE:**

- 2016 - 2018 Co-author NCA4 Chapter on Oceans and Marine Resources
- 2016 - 2018 Co-author SOCCR Chapter on Coastal Oceans
- 2011 - 2016 Co-lead for the Northern CCS, North American Carbon Program Coastal Interim Synthesis Activity, 2011–present
- 2015, 2016 - Summer High School Internship in Aquatic Chemistry Mentor
- 2015 Co-Conference Chair, EPOC, Fallen Leaf Lake, CA
- 2013 Co-convener, CERF, *Modeling Ocean Acidification in the Coastal Ocean and Estuaries*
- 2012 Co-convener, EPOC, *Deoxygenation and acidification in waters of the Eastern Pacific*
- 2011 Co-convener, AGU, *Eastern Boundary Ocean Margin Carbon Cycles*

NSF- OCE, CO proposal review

NSF – OCE, PO proposal review

NASA and NOAA Proposal Review Panelist

Reviewer for Journals: Journal of Geophysical Research, Geophysical Research Letters, Journal of Physical Oceanography, Science of the Total Environment, Biogeosciences, Progress in

Curriculum Vitae: Samantha Siedlecki

Oceanography, Global Biogeochemical Cycles, Science,  
ICES Journal of Marine Science