

## **Curriculum Vitae: Adrienne J. Sutton**

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**RESEARCH INTERESTS:** My research focus is on characterizing the extent and magnitude of ocean acidification in the surface waters of open ocean, coastal, and coral reef environments. Specifically, I am interested in using interdisciplinary approaches to explore how physical and biological mechanisms, such as the El Niño Southern Oscillation and coral reef metabolism, drive variations in ocean carbon chemistry across time and space. One of these approaches uses autonomous instrumentation on mooring platforms to better understand the natural variability and long-term trends in ocean carbon.

## **EDUCATION**

**Ph.D., University of Maryland Center for Environmental Science (UMCES),** 2000-2006  
**Horn Point Laboratory, Cambridge, MD**  
GPA 3.7, Area of Study: Oceanography, Advisor: Dr. Thomas Fisher

**B.S., University of North Carolina at Wilmington (UNCW), Wilmington, NC** 1996-2000  
GPA 3.6, B.S. in Biology and Marine Biology with Chemistry minor, *cum laude*  
Honors Directed Individual Study with Dr. Stephen Skrabal 2000  
Research Experience for Undergraduates (REU), Scripps Institution of Oceanography 1999  
with Dr. Peter J.S. Franks

## **PROFESSIONAL AND RESEARCH EXPERIENCE**

**Research Scientist 4, National Oceanic and Atmospheric Administration (NOAA) -** 2012-present  
**University of Washington (UW) Joint Institute for the Study of the Atmosphere and**  
**Ocean (JISAO), Pacific Marine Environmental Laboratory (PMEL), Seattle, WA**  
Principal investigator in PMEL Carbon Program; oversee scientific and technical details of the PMEL  
ocean acidification (OA) mooring network  
Cruise experience: R/V Fairweather, West Coast OA Cruise, Co-Chief Scientist and lead DIC analyst, 3 – 14  
August 2013; R/V Kilo Moana, Validation Team of Wendy Schmidt Ocean Health XPRIZE competition,  
14 – 20 May 2015

**National Research Council (NRC) Research Associate, NOAA, PMEL, Seattle, WA** 2010-2012  
Postdoctorate researcher with Drs. Richard Feely and Chris Sabine  
Cruise experience: R/V Wecoma, West Coast OA Cruise, DIC analyst, 9 August – 3 September 2011;  
R/V Shimada, West Coast OA Cruise, DIC analyst, 4 – 18 September 2012  
Lab work: DIC measurements; use of autonomous sensors (CO<sub>2</sub>, pH, SSTC, dissolved oxygen,  
fluorescence, and turbidity); OA mooring data quality control

**Assistant Director of Strategic Planning, Partnership for Interdisciplinary Studies** 2008-2009  
**of Coastal Oceans (PISCO), Oregon State University, Corvallis, OR**  
Postdoctorate researcher with Drs. Jane Lubchenco and Bruce Menge  
Developed PISCO's 5-Year Science Plan

**Congressional Affairs Specialist (ZA-0301-IV), NOAA Office of Legislative Affairs,** 2007-2008  
**Washington, DC**  
Congressional Affairs Specialist for NOAA's role in the U.S. Climate Change Science Program and the  
Intergovernmental Panel on Climate Change

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Office of Legislative Affairs representative for NOAA's Science Advisory Board

Issue areas: NOAA's Office of Oceanic and Atmospheric Research, including climate science, ocean exploration and undersea research, weather and air quality research, hurricane research, invasive species, NOAA's Laboratories and Cooperative Institutions, National Sea Grant College Program

### **Knauss Sea Grant Fellow, NOAA Office of Legislative Affairs** **2006-2007**

Issue areas: harmful algal blooms, hypoxia, oceans and human health, fishery regulations, marine protected areas, coral reefs, northeast and Chesapeake Bay fisheries, sea turtles

### **Research Assistant, laboratory of Dr. Thomas Fisher, UMCES** **2000-2006**

Lab work: nutrient analyses ( $\text{NH}_4$ ,  $\text{NO}_{3+2}$ ,  $\text{NO}_2$ , TN,  $\text{PO}_4$ , TP, PP, TSS, Si, DOC); gas and liquid chromatography; membrane inlet mass spectrometry; stream water flow measurements; groundwater hydrologic characterizations; soil property characterizations; use of ISCO 3700 portable samplers; use of Solinst automatic temperature and pressure loggers; use of GPS

### **Undergraduate Honors Student, laboratory of Dr. Stephen Skrabal, UNCW** **2000**

Lab work: trace metal analyses including cathodic stripping voltammetry

### **REU Fellow, laboratory of Dr. Peter J.S. Franks, Scripps Institution of Oceanography (SIO)** **1999**

Lab work: methods used to culture phytoplankton; fluorometer for analysis of photosynthesis in phytoplankton; water column measurements (e.g., phytoplankton, zooplankton, chlorophyll, CTD)

## **SELECTED GUEST LECTURES AND PRESENTATIONS**

- Sutton, A.J., C.L. Sabine, and R.A. Feely. 2016. Natural variability and anthropogenic change revealed by moored time series observations of  $p\text{CO}_2$  and pH. Oceans in a High  $\text{CO}_2$  World, Hobart, Australia, 3 May 2016.
- Sutton, A.J., C.L. Sabine, and R.A. Feely. 2016. Using present day observations to detect when ocean acidification exceeds natural variability of surface seawater  $\Omega_{\text{aragonite}}$ . Ocean Sciences Meeting, New Orleans LA, 22-26 Feb 2016.
- Sutton, A.J., R.A. Feely, R. Wanninkhof, S.R. Alin, L. Barbero, D. Pierrot, and B. Carter. 2015. Ocean Carbon Networks. NOAA Climate Observations Division Community Workshop, College Park, MD, 16 June 2015.
- Sutton, A.J., R.A. Feely, C.L. Sabine, S.R. Alin, and J. Mathis. 2014. PMEL Ocean Carbon Program Update. NOAA PMEL Review, Seattle, WA.
- Sutton, A. J., R.A. Feely, C.L. Sabine, M.J. McPhaden, and T. Takahashi. 2014. Natural and anthropogenic change since 1997: A synthesis of Equatorial Pacific surface ocean  $p\text{CO}_2$  observations on the TAO Array. Ocean Sciences Meeting, Honolulu HI, 24-28 Feb 2014.
- Sutton, A.J., R.A. Feely, C.L. Sabine, C.E. Cosca, and S. Maenner-Jones. 2012. Rising Atmospheric  $\text{CO}_2$  and Ocean Acidification: the Tropical Oceans and Beyond. Tropical Oceans: Challenges of the 21st Century Meeting, Universidade Federal de Pernambuco, Recife, Brazil (invited).
- Sutton, A.J., R.A. Feely, C.L. Sabine, S.R. Alin, and J. Mathis. 2012. Rising Atmospheric  $\text{CO}_2$  and Ocean Acidification: From the Poles to Puget Sound. NOAA Senior Research Council Meeting, Seattle, WA (invited).
- Sutton, A.J., R.A. Feely, C.L. Sabine, and S.R. Alin. 2012. From the global ocean to the Puget Sound: how OA is playing out locally and afar. JISAO Annual Luncheon, Seattle, WA (invited).
- Sutton, A.J., M. Conathan, C.A. English, A. Mace, and J.J. Meyer. 2012. Pups in the Shark Tank: skills marine studies graduates develop while navigating Washington's political waters. Ocean Sciences Meeting, Salt Lake City, UT, 19-24 Feb 2012.

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- Sutton, A.J., R.A. Feely, C.L. Sabine, J. Newton, J. Salisbury, D. Vandemark, S. Musielewicz, S. Maenner, R. Bott, and N. Lawrence-Slavas. 2011. Natural variability of pCO<sub>2</sub> and pH in the Atlantic and Pacific coastal margins of the U.S. AGU Fall Meeting, San Francisco, CA, 5-9 Dec 2011 (poster).
- Sutton, A.J. 2011. Ocean acidification: the other CO<sub>2</sub> Problem. Institutes for Journalism and Natural Resources Puget Sound Learning Expedition, Quilcene, WA (invited).
- Sutton, A.J. 2011. Biogeochemistry overview: global and coastal ocean acidification. National Council for Science and the Environment, Washington, DC (invited).
- Sutton, A.J. 2010. Ocean acidification: an overview. Centers for Ocean Sciences Education Excellence (COSEE) Pacific Partnerships - Community College Faculty Summer Teaching Institute: Climate change and eutrophication in coastal and marine ecosystem. Shannon Point Marine Center, Western Washington University, Anacortes, WA (invited).
- Sutton, A.J. 2010. Ocean acidification and the Global Carbon Cycle. COSEE Pacific Partnerships - Community College Faculty Summer Teaching Institute: Climate change and eutrophication in coastal and marine ecosystem. Shannon Point Marine Center, Western Washington University, Anacortes, WA (invited).
- Regular presentations on ocean and climate policy and legislation to NOAA's Science Advisory Board and other NOAA Leadership panels. 2006-2008.
- Sutton, A.J. 2008. Ocean issues in the 110<sup>th</sup> Congress and why Washington needs more scientists. UMCES Horn Point Laboratory Cambridge, MD (invited).

### **PEER-REVIEWED PUBLICATIONS (most recent first)**

- Sutton, A.J.**, C.L. Sabine, R.A. Feely, W.-J. Cai, M.F. Cronin, M.J. McPhaden, J.M. Morell, J.A. Newton, J.-H. Noh, S.R. Ólafsdóttir, J.E. Salisbury, U. Send, D. Vandemark, and R.A. Weller. 2016. Using present-day observations to detect when anthropogenic change forces surface ocean carbonate chemistry outside preindustrial bounds. *Biogeosciences*, 13(17), 5065–5083, doi: 10.5194/bg-2016-104. [[open access](#)]
- Le Quéré, C., R.M. Andrew, J.G. Canadell, S. Sitch, J.I. Korsbakken, G.P. Peters, A.C. Manning, T.A. Boden, P.P. Tans, R.A. Houghton, R.F. Keeling, S. Alin, O.D. Andrews, P. Anthoni, L. Barbero, L. Bopp, F. Chevallier, L.P. Chini, P. Ciais, K. Currie, C. Delire, S.C. Doney, P. Friedlingstein, T. Gkritzalis, I. Harris, J. Hauck, V. Haverd, M. Hoppema, K. Klein Goldewijk, A.K. Jain, E. Kato, A. Körtzinger, P. Landschützer, N. Lefèvre, A. Lenton, S. Lienert, D. Lombardozzi, J.R. Melton, N. Metzl, F. Millero, P.M.S. Monteiro, D.R. Munro, J.E.M.S. Nabel, S.-I. Nakaoka, K. O'Brien, A. Olsen, A.M. Omar, T. Ono, D. Pierrot, B. Poulter, C. Rödenbeck, J. Salisbury, U. Schuster, J. Schwinger, R. Séférian, I. Skjelvan, B.D. Stocker, **A.J. Sutton**, T. Takahashi, H. Tian, B. Tilbrook, I.T. van der Laan-Luijkx, G.R. van der Werf, N. Viovy, A.P. Walker, A. Wiltshire, and S. Zaehle. 2016. Global Carbon Budget 2016. *Earth Sys. Sci. Data*, 8, 605–649, doi: 10.5194/essd-8-605-2016. [[open access](#)]
- Fassbender, A.J., S.R. Alin, R.A. Feely, **A.J. Sutton**, J. Newton, and R.H. Byrne. 2016. Estimating total alkalinity in the Washington State coastal zone: Complexities and surprising utility for ocean acidification research. *Estuar. Coast.*, doi: 10.1007/s12237-016-0168-z.
- Courtney, T.A., A.J. Andersson, N.R. Bates, A. Collins, T. Cyronak, S.J. de Putron, B.D. Eyre, R. Garley, E.J. Hochberg, R. Johnson, S. Musielewicz, T.J. Noyes, C.L. Sabine, **A.J. Sutton**, J. Toncin, and A. Tribollet. 2016. Comparing chemistry and census-based estimates of net ecosystem calcification on a rim reef in Bermuda. *Front. Mar. Sci.*, 3, 181, doi: 10.3389/fmars.2016.00181.
- Bakker, D.C.E., B. Pfeil, C.S. Landa, N. Metzl, K.M. O'Brien, A. Olsen, K. Smith, C. Cosca, S. Harasawa, S.D. Jones, S.-I. Nakaoka, Y. Nojiri, U. Schuster, T. Steinhoff, C. Sweeney, T. Takahashi, B. Tilbrook, C. Wada, R. Wanninkhof, S.R. Alin, C.F. Balestrini, L. Barbero, N.R. Bates, A.A. Bianchi, F. Bonou, J. Boutin, Y. Bozec, E.F. Burger, W.-J. Cai, R.D. Castle, L. Chen, M. Chierici, K. Currie, W. Evans, C. Featherstone, R.A. Feely, A. Fransson, C. Goyet, N. Greenwood, L. Gregor, S.

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- Hankin, N.J. Hardman-Mountford, J. Harlay, J. Hauck, M. Hoppema, M.P. Humphreys, C.W. Hunt, B. Huss, J.S.P. Ibáñez, T. Johannessen, R. Keeling, V. Kitidis, A. Körtzinger, A. Kozyr, E. Krasakopolou, A. Kuwata, P. Landschützer, S.K. Lauvset, N. Lefèvre, C. LoMonaco, A. Manke, J.T. Mathis, L. Merlivat, F.J. Millero, P.M.S. Monteiro, D.R. Munro, A. Murata, T. Newberger, A.M. Omar, T. Ono, K. Paterson, D. Pearce, D. Pierrot, L.L. Robbins, S. Saito, J. Salisbury, R. Schlitzer, B. Schneider, R. Schweitzer, R. Sieger, I. Skjelvan, K.F. Sullivan, S.C. Sutherland, **A.J. Sutton**, K. Tadokoro, M. Telszewski, M. Tuma, S.M.A.C. van Heuven, D. Vandemark, B. Ward, A.J. Watson, and S. Xu. 2016. A multi-decade record of high quality fCO<sub>2</sub> data in version 3 of the Surface Ocean CO<sub>2</sub> Atlas (SOCAT). *Earth Syst. Sci. Data*, 8, 383–413, doi: 10.5194/essd-8-383-2016. [[open access](#)]
- Le Quéré, C., R. Moriarty, R.M. Andrew, J.G. Canadell, S. Sitch, J.I. Korsbakken, G.P. Peters, R.J. Andres, T.A. Boden, P. Friedlingstein, R.A. Houghton, J.I. House, R.F. Keeling, G. Marland, P. Tans, A. Arneth, D.C.E. Bakker, L. Barbero, L. Bopp, J. Chang, F. Chevallier, L.P. Chini, P. Ciais, M. Fader, R.A. Feely, T. Gkritzalis, I. Harris, J. Hauck, T. Ilyana, A.K. Jain, E. Kato, V. Kitidis, K. Klein Goldewijk, C. Koven, P. Landschützer, S.K. Lauvset, N. Lefèvre, A. Lenton, I.D. Lima, N. Metzl, F. Millero, D. Munro, A. Murata, J.E.M.S. Nabel, S. Nakaoka, Y. Nojiri, K. O'Brien, A. Olsen, T. Ono, F.F. Pérez, B. Pfeil, D. Pierrot, B. Poulter, G. Rehder, C. Rödenbeck, S. Saito, U. Schuster, J. Schwinger, R. Séférian, T. Steinhoff, B.D. Stocker, **A.J. Sutton**, T. Takahashi, B. Tilbrook, I. van der Laan-Luijckx, G.R. van der Werf, S. van Heuven, D. Vandemark, N. Viovy, A. Wiltshire, and S. Zaehle. 2015. Global Carbon Budget 2015. *Earth Sys. Sci. Data*, 7, 349–396, doi: 10.5194/essd-7-349-2015. [[open access](#)]
- Xue, L., W.-J. Cai, X. Hu, C.L. Sabine, S. Jones, **A.J. Sutton**, L.-Q. Jiang, and J.J. Reimer. 2016. Sea surface carbon dioxide at the Georgia time series site (2006–2007): Air-sea flux and controlling processes. *Prog. Oceanogr.*, 140, 14–26, doi: 10.1016/j.pocean.2015.09.008.
- Sutton, A.J.**, D. Manzello, and B. Gintert. 2015. Coupling chemical and biological monitoring to understand the impact of ocean acidification on coral reef ecosystems. *Oceanography*, 28(2), 28–29, doi: 10.5670/oceanog.2015.28. [[open access](#)]
- Le Quéré, C., R. Moriarty, R.M. Andrew, G.P. Peters, P. Ciais, P. Friedlingstein, S.D. Jones, S. Sitch, P. Tans, R.J. Andres, A. Arneth, T.A. Boden, A. Bondeau, L. Bopp, Y. Bozec, J.G. Canadell, F. Chevallier, C.E. Cosca, I. Harris, M. Hoppema, R.A. Houghton, J.I. House, A.K. Jain, T. Johannessen, E. Kato, R.F. Keeling, V. Kitidis, K. Klein Goldewijk, C. Koven, C. Landa, P. Landschützer, A. Lenton, I. Lima, G. Marland, J.T. Mathis, N. Metzl, Y. Nojiri, A. Olsen, W. Peters, B. Pfeil, B. Poulter, M.R. Raupach, P. Regnier, C. Rödenbeck, S. Saito, J.E. Salisbury, U. Schuster, J. Schwinger, R. Séférian, J. Segschneider, T. Steinhoff, B.D. Stocker, **A.J. Sutton**, T. Takahashi, B. Tilbrook, N. Viovy, Y.-P. Wang, R. Wanninkhof, G. van der Werf, A. Wiltshire, S. Zaehle, and N. Zeng. 2015. Global Carbon Budget 2014. *Earth Sys. Sci. Data*, 7, 47–85, doi: 10.5194/essd-7-47-2015. [[open access](#)]
- Shadwick, E.H., T.W. Trull, B. Tilbrook, **A.J. Sutton**, E. Schulz, and C.L. Sabine. 2015. Seasonality of biological and physical controls on surface ocean CO<sub>2</sub> from hourly observations at the Southern Ocean Time Series site south of Australia. *Global Biogeochem. Cycles*, 29(2), doi: 10.1002/2014GB004906, 223–238.
- Sutton, A.J.**, C. L. Sabine, S. Maenner-Jones, N. Lawrence-Slavas, C. Meinig, R. A. Feely, J. T. Mathis, S. Musielewicz, R. Bott, P. D. McLain, J. Fought, and A. Kozyr. 2014. A high-frequency atmospheric and seawater pCO<sub>2</sub> data set from 14 open ocean sites using a moored autonomous system. *Earth Syst. Sci. Data*, 6, 353–366, doi:10.5194/essd-6-353-2014. [[open access](#)]
- Sutton, A.J.**, R.A. Feely, C.L. Sabine, M.J. McPhaden, T. Takahashi, F.P. Chavez, G.E. Friederich, and J.T. Mathis. 2014. Natural variability and anthropogenic change in equatorial Pacific surface ocean pCO<sub>2</sub> and pH. *Global Biogeochemical Cycles* 28: 131–145, doi: 10.1002/2013GB004679.
- Bakker, D.C.E., B. Pfeil, K. Smith, S. Hankin, A. Olsen, S.R. Alin, C. Cosca, S. Harasawa, A. Kozyr, Y.

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- Nojiri, K.M. O'Brien, U. Schuster, M. Telszewski, B. Tilbrook, C. Wada, J. Akl, L. Barbero, N. Bates, J. Boutin, W.-J. Cai, R.D. Castle, F.P. Chavez, L. Chen, M. Chierici, K. Currie, H.J.W. de Baar, W. Evans, R.A. Feely, A. Fransson, Z. Gao, B. Hales, N. Hardman-Mountford, M. Hoppema, W.-J. Huang, C.W. Hunt, B. Huss, T. Ichikawa, T. Johannessen, E.M. Jones, S.D. Jones, S. Jutterström, V. Kitidis, A. Körtzinger, P. Landschützer, S.K. Lauvset, N. Lefèvre, A.B. Manke, J.T. Mathis, L. Merlivat, N. Metzl, A. Murata, T. Newberger, T. Ono, G.-H. Park, K. Paterson, D. Pierrot, A.F. Ríos, C.L. Sabine, S. Saito, J. Salisbury, V.V.S.S. Sarma, R. Schlitzer, R. Sieger, I. Skjelvan, T. Steinhoff, K. Sullivan, H. Sun, **A.J. Sutton**, T. Suzuki, C. Sweeney, T. Takahashi, J. Tjiputra, N. Tsurushima, S.M.A.C. van Heuven, D. Vandemark, P. Vlahos, D.W.R. Wallace, R. Wanninkhof, and A.J. Watson. 2013. An update to the surface ocean CO<sub>2</sub> atlas (SOCAT version 2). *Earth Syst. Sci. Data* 6: 69–90, doi: 10.5194/essd-6-69-2014. [[open access](#)]
- Wada, A., M.F. Cronin, **A.J. Sutton**, Y. Kawai, and M. Ishii. 2013. Numerical simulations on interactions between Typhoon Choi-wan (0914) and the ocean measured by the Kuroshio Extension Observatory mooring. *J. Geophys. Res.* 118(5), doi: 10.1002/jgrc.20203, 2667–2684.
- Hively, W.D., C.J. Hapeman, L.L. McConnell, T.R. Fisher, C.P. Rice, G.W. McCarty, A.M. Sadeghi, D.R. Whitall, P.M. Downey, G.N. de Guzman, K. Bialek, M.W. Lang, A.B. Gustafson, **A.J. Sutton**, K.A. Sefton, J.A. Harman Fetcho. 2011. Relating Nutrient and Herbicide Fate with Landscape Features and Characteristics of 15 Subwatersheds in the Choptank River Watershed. *Science of the Total Environment* 409(19): 3866–3878, doi: 10.1016/j.scitotenv.2011.05.024.
- Sutton, A.J.**, T.R. Fisher, and A.B. Gustafson. 2010. Effects of re-established stream buffers on water quality in non-tidal streams in the Choptank River basin. *Water, Air, and Soil Pollution* 208: 101–118.
- Sutton, A.J.**, T.R. Fisher, and A.B. Gustafson. 2009. Historical changes in water quality at German Branch watershed in the Choptank River basin. *Water, Air, and Soil Pollution* 199: 353–369.
- Fisher, T.R., J.A. Benitez, K.-Y. Lee, and **A.J. Sutton**. 2006. History of land cover change and biogeochemical impacts in the Choptank River basin in the mid-Atlantic region of the U.S. *International Journal of Remote Sensing* 27: 3683–3703.

## **BOOK CHAPTERS, WHITEPAPERS, AND REPORTS**

- Sutton, A.J.**, among other contributors. 2016. Puget Sound Marine Waters: 2015 Overview. S.K. Moore, R. Wold, K. Stark, J. Bos, P. Williams, K. Dzinbal, C. Krembs, and J. Newton (eds.), NOAA Northwest Fisheries Science Center for the Puget Sound Ecosystem Monitoring Program's (PSEMP) Marine Waters Workgroup.
- Cravatte, S., W.S. Kessler, N. Smith, S. Wijffels, K. Ando, M. Cronin, T. Farrar, E. Guilyardi, A. Kumar, T. Lee, D. Roemmich, J. Sprintall, Y. Serra, P. Strutton, **A. Sutton**, K. Takahashi, and A. Wittenberg. 2016. TPOS 2020 Project: First Report. In TPOS 2020, TPOS2020.org.
- Siedlecki, S., E. Bjorkstedt, R. Feely, **A. Sutton**, J. Cross, and J. Newton. 2016. Impact of the Blob on the northeast Pacific Ocean biogeochemistry and ecosystems. *U.S. CLIVAR Variations*, 14(2), 7–12, <http://usclivar.org/newsletter/newsletters>.
- Sutton, A.J.**, among other contributors. 2015. Puget Sound Marine Waters: 2014 Overview. Moore, S.K., K. Stark, J. Bos, P. Williams, J. Newton, and K. Dzinbal (eds.), NOAA Northwest Fisheries Science Center for the Puget Sound Ecosystem Monitoring Program's (PSEMP) Marine Waters Workgroup, 52 pp.
- Mathis, J.T., R.A. Feely, **A.J. Sutton**, C. Carlson, F. Chai, F. Chavez, M. Church, C. Cosca, M. Ishii, C. Mordy, A. Murata, J. Resing, P. Strutton, T. Takahashi, and R. Wanninkhof. 2014. TPOS Whitepaper #6. Tropical Pacific biogeochemistry: Status, implementation and gaps. In Proceedings of the Tropical Pacific Observing System 2020 Workshop, A Future Sustained Tropical Pacific Ocean Observing System for Research and Forecasting, La Jolla, CA, 27–30 January 2014.
- Sutton, A.J.**, among other contributors. 2014. Puget Sound Marine Waters: 2013 Overview. Moore, S.K., K.

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- Stark, J. Bos, P. Williams, J. Newton, and K. Dzinbal (eds.), NOAA Northwest Fisheries Science Center for the Puget Sound Ecosystem Monitoring Program's (PSEMP) Marine Waters Workgroup, 60 pp.
- Wanninkhof, R., D. Bakker, N. Bates, A. Olsen, T. Steinhoff, and **A.J. Sutton**. 2013. Incorporation of Alternative Sensors in the SOCAT Database and Adjustments to Dataset Quality Control Flags. <http://cdiac.ornl.gov/oceans/Recommendationnewsensors.pdf>. Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, US Department of Energy, Oak Ridge, Tennessee. doi: 10.3334/CDIAC/OTG.SOCAT\_ADQCF
- Sutton, A.J.** 2013. Acidification of Ocean Water. In: Miller, I.M., C. Shishido, L. Antrim, and C.E. Bowlby. Climate Change and the Olympic Coast National Marine Sanctuary: Interpreting Potential Futures. Marine Sanctuaries Conservation Series ONMS-13-01. U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Office of National Marine Sanctuaries, Silver Spring, MD. 238pp.
- Wanninkhof, R., R. Feely, **A.J. Sutton**, C. Sabine, K. Tedesco, N. Gruber, and S. Doney. 2013. An integrated ocean carbon observing system (IOCOS). In Proceedings of the IOOS Summit, Interagency Ocean Observation Committee (IOOC), Herndon, Virginia, 13-16 November 2012.
- Gledhill, D.K., E.B. Jewett, K. Arzayus, J. Newton, J. Salisbury, and **A.J. Sutton**. 2013. An integrated coastal ocean acidification observing system (ICOAOS). In Proceedings of the IOOS Summit, Interagency Ocean Observation Committee (IOOC), Herndon, Virginia, 13-16 November 2012.
- Sutton, A.J.**, among other contributors. 2012. Puget Sound Marine Waters: 2011 Overview. S.K. Moore, R. Runcie, K. Stark, J. Newton, and K. Dzinbal (eds.), NOAA Northwest Fisheries Science Center for the Puget Sound Ecosystem Monitoring Program's (PSEMP) Marine Waters Workgroup, 54 pp.
- Sutton, A.J.** 2012. Ocean Acidification – Measurements. In Encyclopedia of Sustainability: Measurements, Indicators, and Research Methods for Sustainability, edited by I. Spellerberg, D. Fogel, and S. Fredericks: Berkshire Publishing. Great Barrington, MA.
- Feely, R.A., R. Wanninkhof, J. Stein, M.F. Sigler, E. Jewett, F. Arzayus, D.K. Gledhill, and **A.J. Sutton**. 2010. NOAA Ocean and Great Lakes Acidification Research Plan. NOAA Special Report, April 2010, 143 pp.
- Fisher, T.R., T.E. Jordan, K.W. Staver, A.B. Gustafson, A.I. Koskelo, R.J. Fox, **A.J. Sutton**, T. Kana, K.A. Beckert, J.P. Stone, G. McCarty, and M. Lang. 2010. The Choptank Basin in transition: intensifying agriculture, slow urbanization, and estuarine eutrophication. In Coastal Lagoons: Systems of Natural and Anthropogenic Change, edited by M. J. Kennish and H. W. Paerl: CRC Press. Boca Raton, FL.
- Sutton, A.J.** 2006. Evaluation of agricultural nutrient reductions in restored riparian buffers. University of Maryland Dissertation.

## OUTREACH PUBLICATIONS

- Sutton, A.J.** 2016. Career profiles: Options and insights—Adrienne J. Sutton, Research Scientist, University of Washington Joint Institute for the Study of the Atmosphere and Ocean, NOAA Pacific Marine Environmental Laboratory. *Oceanography*, 29(2), 298–299. [[available online](#)]
- Sutton, A.J.** 2012. Everyday Scientists: High School Poets, Home Brewers, and Scuba Divers. *Sources: The Journal of Underwater Education* 24(4): 56-57. [[pdf](#)]
- Sutton, A.J.** 2011. Coral Reefs Face Increasing Stress from Local Human Activities, Warming Waters, and Ocean Acidification. *Sources: The Journal of Underwater Education* 23(3): 34-35. [[pdf](#)]
- Sutton, A.J.** 2010. Ocean Acidification: A Fundamental Problem for the Future of Recreational Diving. *Sources: The Journal of Underwater Education* 22(2): 54-57. [[pdf](#)]
- Sutton, A.J.** 2010. Deep-Sea Corals and the Changing Chemistry of the Sea. NOAA National Marine Sanctuary Deep-Sea Coral Expedition online cruise report. [[website](#)]

## Curriculum Vitae: Adrienne J. Sutton

### SELECTED AWARDS

UNCW Athletic Hall of Fame inductee (2014)  
National Research Council Postdoctoral Research Associate Fellowship (2010)  
Colonial Athletic Association's (CAA) Silver Anniversary Team for Women's Swimming and Diving (2009)  
NOAA Administrator's Award for outstanding leadership in and dedication to developing U.S. Climate Change Science Program (CCSP) Synthesis & Assessment Products integrating climate research for decision support (July 2008)  
NOAA Recognition Award for exceptional performance (July 2007 and Nov 2007)  
John A. Knauss Marine Policy Fellowship (Feb. 2006-Jan. 2007)  
"Most Outstanding Poster" MEES Colloquium (October 2005)  
Horn Point Laboratory Graduate Fellowship (2000-2002)  
UNCW Departmental Honors in Biology (2000)

CAA Conference Scholar Athlete (1997-2000)  
UNCW Golden Seahawk Academic Award (1997-2000)  
Dean's List UNCW (1996-2000)  
Athletic scholarship (1996-2000)  
NSF Research Experience for Undergraduates Fellowship, SIO (1999)  
CAA Conference Rookie of the Year (1997)

### COMMITTEES

**Co-chair**, Biogeochemistry Task Team, Tropical Pacific Observing System 2020, 2015 to present.  
**Steering Committee**, Ocean Acidification Program Principal Investigators Meeting, 2015.  
**Advisory Board**, Advancing Climate Literacy through Investment in In-service and Pre-service Science Educators, Lawrence Hall of Science at the University of California Berkeley and Western Washington University, 2014.  
**Science Steering Committee**, OceanSITES, 2011 to present.  
**Advisor**, Wendy Schmidt Ocean Health XPRIZE, 2012 to present.  
**Science Communication Advisory Group**, UW College of the Environment, 2012 to present.  
**Steering Committee**, Coral Reef Ocean Acidification Monitoring Portfolio Workshop, 2012.  
**Steering Committee**, International Ocean Acidification Monitoring Workshop, 2012.

### SCIENCE EDUCATION AND COMMUNITY OUTREACH ACTIVITIES

**High school student mentor**, pilot project of the Educurious Expert Network, Bellevue Big Picture School, 2011.  
**Workshop presenter**, Expanding Your Horizons for Middle School Girls, Bellevue Community College, semi-annual since 2011.  
**Guest speaker/lecturer**, Seattle Art Institute, 2015; Guest Scientist, tOAStER (the Oceanography All Student Educational Retreat), UW School of Oceanography, 2013; Western Washington Univ. Huxley College of the Environment on the Peninsulas, Puget Sound Research course, 2013; Central Washington Univ. Oceans and Atmosphere course, 2013; UW School of Marine and Environmental Affairs, Society and Oceans course, 2012; JISAO summer intern lecture series, 2012; UW School of Marine and Environmental Affairs, Contemporary Issues in Marine Affairs course, 2012; Seattle Girls School science class, 2010; Washington State Ocean Caucus, Westport, WA, 2010.  
**National Association of Underwater Instructors (NAUI) SCUBA Instructor**, 2007-present.  
**American Red Cross First Aid and CPR Instructor**, 1995-2008.

## Curriculum Vitae: Adrienne J. Sutton

**Swim coach**, various teams, 1993-2005.

**Summer science camp teacher**, Wilmington, NC, 1998.

### **PROFESSIONAL SERVICE**

**American Geophysical Union**. Member, 2009-present.

**American Society of Limnology and Oceanography**, Dissertations Initiative for the Advancement of Limnology and Oceanography, 2007-2011.

**NOAA Science Advisory Board** Congressional Liaison, 2007-2008.

**Scientific Session Convener** at AGU Fall Meeting 2010, Ocean Sciences 2012, Ocean Sciences 2014.

**Reviewer** for *Geophysical Research Letters*, *PLOS ONE*, *Limnology and Oceanography*, *Journal of Geophysical Research – Oceans*, *Progress in Oceanography*, *Biogeosciences*, *Aquatic Geochemistry*, *Journal of Advances in Modeling Earth Systems*.

**NAUI** Member, 2007-present.

### **POSTGRADUATE-SCHOLAR ADVISOR**

Andrea Fassbender (Postdocs Applying Climate Expertise Postdoctoral Fellowship Program, 2015-2016); Remy Okazaki (Wendy Schmidt Ocean Health XPRIZE Validation Lead, 2014-2016)