

Curriculum Vitae: Adrienne J. Sutton

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EDUCATION

- Ph.D., University of Maryland Center for Environmental Science (UMCES),
Horn Point Laboratory, Cambridge, MD** 2000-2006
GPA 3.7, Area of Study: Oceanography, Advisor: Dr. Thomas Fisher
Dissertation: *Evaluation of agricultural nutrient reductions in restored riparian buffers*
- 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

- National Research Council (NRC) Research Associate, National Oceanic and
Atmospheric Administration (NOAA), Pacific Marine Environmental Laboratory
(PMEL), Seattle, WA** 2010-present
Postdoctorate researcher with Dr. Richard Feely
- Assistant Director of Strategic Planning, Partnership for Interdisciplinary Studies
of Coastal Oceans (PISCO), Oregon State University, Corvallis, OR** 2008-2009
Postdoctorate researcher with Drs. Jane Lubchenco and Bruce Menge
- Congressional Affairs Specialist, NOAA Office of Legislative Affairs,
Washington, DC** 2007-2008
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
Congressional Affairs Specialist for NOAA's role in the U.S. Climate Change Science Program and the
Intergovernmental Panel on Climate Change
Office of Legislative Affairs representative for NOAA's Science Advisory Board
- 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 (NH₄, NO₃₊₂, NO₂, TN, PO₄, 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**

1999

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

GUEST LECTURES, SELECTED PRESENTATIONS, AND TEACHING EXPERIENCE

- 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).
- Sutton, A.J. 2010. Ocean acidification: the other CO₂ Problem. Washington State Ocean Caucus outreach meeting. Westport, 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 110th Congress and why Washington needs more scientists. UMCES Horn Point Laboratory Cambridge, MD (Guest lecture).
- Sutton, A.J. and T.R. Fisher. 2006. Watershed-scale assessment of restored riparian buffers and water quality. American Water Resources Association Annual Conference, Baltimore, Maryland.
- Sutton, A.J. 2005. Water quality effects of restored riparian buffers at multiple scales in the natural environment, Delmarva Peninsula, USA. ESA Annual Meeting, Montreal, Canada.
- Sutton, A.J. 2005. Restored riparian buffers reduce nutrients at an individual farm scale but not at a watershed scale. MEES Colloquium (Poster).
- Sutton, A.J. 2002. Effectiveness of Maryland's CREP: reducing the nutrient load to the Chesapeake Bay. MEES Colloquium (Poster).
- Summer Science Camp Teacher. 1998. Wilmington, NC.
- Non-science teaching experience: American Red Cross First Aid and CPR Instructor, 1995-2008; National Association of Underwater Instructors (NAUI) SCUBA Instructor, 2007-present; swim coach, 1993-2005.

PEER-REVIEWED PUBLICATIONS

- Hively, W.D., C.J. Hapeman, T.R. Fisher, C.P. Rice, G.W. McCarty, L.L. McConnell, P. Downey, G.N. de Guzman, K. Bialek, M.W. Lang, A.M. Sadeghi, D.R. Whitall, A. Lynn, A.B. Gustafson, **A.J. Sutton**, K.A. Sefton, J.A. Harman Fetcho. in review. Relating Nutrient and Herbicide Fate with Landscape Features and Characteristics of 15 Subwatersheds in the Choptank River Watershed. *Science of the Total Environment*.
- 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

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Press. Boca Raton, FL.

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.

OTHER PUBLICATIONS

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.

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.

Sutton, A.J. 2006. Evaluation of agricultural nutrient reductions in restored riparian buffers. University of Maryland Dissertation.

SELECTED GRANTS AND AWARDS (* proposals written by Sutton)

National Research Council Postdoctoral Research Associate Fellowship (2010) *

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 Student Travel Award (Ecological Society of America 2005 Annual Meeting in Montreal, Quebec, Canada) *

Horn Point Laboratory Small Grants (awarded annually, 2002-2005) *

U.S. Department of Agriculture Cooperative State Research, Education, and Extension Service Conservation Effects Assessment Project Grant (2003)

U.S. Department of Agriculture Cooperative State Research, Education, and Extension Service National Research Initiative Grant (2002) *

U.S. Department of Agriculture Chesapeake Watershed Forestry Grants (2002) *

Horn Point Laboratory Graduate Fellowship (2000-2002)

UNCW Departmental Honors in Biology (2000)

Colonial Athletic Association (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 Grant (1999) *

CAA Conference Rookie of the Year (1997)

PROFESSIONAL SERVICE

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

American Geophysical Union. Member, 2009-present.

NOAA Science Advisory Board Congressional Liaison, 2007-2008

NAUI Member, 2007-present.

American Red Cross Instructor, 1995-2008

Reviewer for *Limnology and Oceanography*, *Journal of Geophysical Research - Oceans*