

DIANE MARIE STANITSKI, Ph.D.

Curriculum Vita

NOAA Earth System Research Laboratory
Global Monitoring Division
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EDUCATION

Ph.D. 1996 Physical Geography (Climatology), Arizona State University
M.A. 1991 Physical Geography (Climatology), Arizona State University
B.A. 1989 Geography, State University of New York, College at Geneseo
B.A. 1989 Communications, State University of New York, College at Geneseo

AREAS OF INTEREST

Boundary Layer Climate, Oceanic and Atmospheric Observations, Surface Radiation

PROFESSIONAL ACTIVITY

10/16 – present **Deputy Director of Planning and Administration**, Global Monitoring Division, *National Oceanic and Atmospheric Administration* (NOAA), Earth System Research Laboratory, Director's Office
Responsibilities: Oversight of GMD administrative and planning activities and operations; development of an Integrated Global Greenhouse Gas Information System (IG³IS)

5/14 – 9/16 **Physical Scientist**, Global Monitoring Division, *National Oceanic and Atmospheric Administration* (NOAA), Earth System Research Laboratory, Global Radiation Group and Director's Office
Responsibilities: Development of an Integrated Global Greenhouse Gas Information System (IG³IS); Radiation and Snowmelt Studies in Barrow, AK

10/09 – 9/16 **Program Manager**, Climate Program Office, NOAA, Silver Spring, MD
Responsibilities: Program Manager for \$7.5M portfolio of global ocean observations and observing technology, including climate quality Ocean Reference Stations; NOAA deputy representative to the US Global Change Research Program, Subcommittee on Global Change Research

8/09 – 1/10 **Associate Instructor**, Department of Oceanography, *United States Naval Academy*, Annapolis, MD
Course taught: Global Climate Change (upper level undergraduate course for majors) for midshipmen in response to the U.S. Navy's Task Force Climate Change

1/08 – 5/09 & Fall/16 **Adjunct Instructor**, Department of Geography, *University of Colorado at Boulder*, Boulder, CO; Course taught: Climate and Vegetation

8/97 – 8/07 **Assistant/Associate Professor**, tenured faculty member in the Department of Geography-Earth Science, *Shippensburg University*, PA

7/03 – 6/05

Associate Program Manager/Science Officer - 2-yr Intergovernmental Personnel Act (IPA) assignment, NOAA Office of Global Programs

Responsibilities: Editor of the *Annual Report on the State of the Ocean and the Ocean Observing System for Climate*, budget analysis, program development

SELECT FIELD RESEARCH / ACTIVITY

Served as a NOAA Teacher in the Lab and Teacher at Sea

Teacher in the Lab – Earth System Research Lab, Boulder, CO (June 29 – July 22, 2009)

Responsibilities: Participated in the **Woods Hole Oceanographic Institution Hawaii Time Series (WHOTS) Research Cruise, Hawaii** on the University of Hawaii Research Vessel *Kilo Moana* north of Oahu (July 7-17, 2009); launched weather balloons, deployed ocean instrumentation, collected and analyzed air-sea flux data

Teacher at Sea – sponsored by NOAA Office of Global Programs and National Science Foundation. Honolulu, Hawaii to the Marquesas, French Polynesia, on NOAA Ship *Ka'imimoana* (August 15 – September 5, 2002)

Responsibilities: Participated in the **TAO Research Cruise, Pacific Ocean**, to conduct El Niño research; responsible for CTD casts and assisted with mooring recovery/deployment

Royal Caribbean Visiting Scientist and Lecturer on ship *Explorer of the Seas* traveling to/from Bermuda, (August 12-17, 2007)

Responsibilities: presented ocean climate lectures to passengers; collected daily water samples; provided daily tours of atmosphere and ocean labs on board

Stratus Research Cruise, Chile, South America. Participated in research on the NOAA Ship *RONALD H. BROWN* off the coast of Chile, South America (December 1-28, 2004).

Responsibilities: deployed a tsunami buoy, long-term ocean climate mooring, Argo floats and drifting buoys; conducted CTD casts

Greenland Ice Sheet Project 2 (GISP2) – Summit. A three-month expedition on the Greenland Ice Sheet, (April - June, 1992).

Position: Research Assistant at the remote Atmospheric Sampling Camp near Summit

Responsibilities: daily atmospheric/snow surface sampling; snowpit sampling and snow stratigraphy; sample preparation for chemical analysis; meteorological observations

RELEVANT PUBLICATIONS

Refereed Professional Publications/Reports

2015 International Arctic Systems for Observing the Atmosphere (IASOA): An International Polar Year Legacy Consortium. *Bull. Amer. Meteor. Soc.* (Uttal, T., S. Starkweather, J. Drummond, T. Vihma, A. Makshtas, L. Darby, J. Burkhart, C. Cox, L. Schmeisser, T. Haiden, M. Maturilli, M. Shupe, G. de Boer, A. Saha, A. Grachev, S. Crepinsek, L. Bruhwiler, B. Goodison, B. McArthur, V. Walden, E. Dlugokencky, P. Persson, G. Lesins, T. Laurila, J. Ogren, R. Stone, C. Long, S. Sharma, A. Massling, D. Turner, D. Stanitski, E. Asmi, M. Aurela, H. Skov, K. Eleftheriadis, A. Virkkula, A. Platt, E. Førland, Y. Iijima, I. Nielsen, M. Bergin, L. Candlish, N. Zimov, S. Zimov, N. O'Neill, P. Fogal, R. Kivi, E. Konopleva-Akish, J. Verlinde, V. Kustov, B. Vasel, V. Ivakhov, Y. Viisanen, and J. Intrieri), doi:10.1175/BAMS-D-14-00145.1, in press.

- 2013 Griffis R. and J. Howard, Editors (Stanitski, contributor), 2013: *Oceans and Marine Resources in a Changing Climate: A Technical Input to the 2013 National Climate Assessment*, Island Press, 288 pp.
- 2013 Howard, J. and 65 co-authors (Stanitski, co-author), 2013: Oceans and Marine Resources in a Changing Climate, *Oceanography and Marine Biology: An Annual Review*, (Editors: Roger N. Hughes; David Hughes; Philip Smith), Volume 51, 71-192.
- 2011 Levy, J., D. Snowden, C. Clark, K. Crane, H. Diamond, D. Goodrich, M. Johnson, C. Miller, W. Murray, S. Piotrowicz, and D. Stanitski. 2011: The Global Ocean Observing Component of IOOS: Implementation of the Initial Global Ocean Observing System for Climate and the Path Forward, *Marine Technology Society Journal*, January/February, Volume 45, 1-10.
- 2010 *WHOI Hawaii Ocean Timeseries Station (WHOTS): WHOTS-6 2009 Mooring Turnaround Cruise Report* (Whelan, S.P., F. Santiago-Mandujano, F. Bradley, A. Plueddemann, L. Barista, J. Ryder, R. Lukas, P. Lethaby, J. Snyder, C. Sabine, D. Stanitski, A.D. Rapp, C.W. Fairall, S. Pezoa, N. Galbraith, J. Lord, F. Bahr), February 2010, Woods Hole Oceanographic Institution Technical Report, WHOI-2010-02, 107 pp.
- 2005 Climate of the oceans, (co-editor), in State of the Climate in 2004, *Bull. Amer. Meteor. Soc.*, Vol. 86, No. 6, June 2005 (with D. Levinson).

Manuscripts

- 2007/06 *Annual Report on the State of the Ocean and the Ocean Observing System for Climate, 2006 (2005)*, Contributing Editor, Office of Climate Observation, National Oceanic and Atmospheric Administration (Editor: J. Levy).
- 2005/04 *Annual Report on the State of the Ocean and the Ocean Observing System for Climate, 2004 (2003)*, Editor, Office of Climate Observation, National Oceanic and Atmospheric Administration

SELECT INVITED PRESENTATIONS / LECTURES

- 2015 "Observational Geography: Technology and Applications for our World" (keynote speaker) Minnesota State University, Mankato, Oct 30
- 2014 Advances in International Ocean Climate Research: the Global Ocean Observing System, *United States Naval Academy*, Oceanography lecture, Annapolis, MD; 2012, 2011, 2010, 2006, 2004
- 2005 Advancing the Global Ocean Observing System for Climate, *University of Delaware*, Department of Geography Seminar Series, March 4, Newark, DE
- 2004 Ocean Observations, *Climate Institute*, August 11, Washington, D.C.
- 2004 NOAA's Role in Advancing International Ocean Research, *SUNY Cortland*, April 22, NY

SELECT PROFESSIONAL PRESENTATIONS / POSTERS

International

- 2016 The Influence of a Record Heat Wave on Environmental Change in Barrow, Alaska, *European*

- Geosciences Union*, (first author with C. Cox, R. Stone and G. Divoky, April 21, Vienna, Austria (poster)
- 2016 Progress toward a Global Greenhouse Gas Information System (IG³IS), *Global Climate Observation: the Road to the Future*, (first author with J. Butler, P. DeCola, O. Tarasova, D. Terblanche), March 4, Amsterdam, Netherlands
- 2014 OceanSITES: Some Recommendations for Communication, Coordination, Collaboration and Next Steps, *OceanSITES Steering Committee Meeting*, Nov 4, Porto de Galinhas, Brazil
- 2011 Observations for Climate: NOAA Support of Sustained Ocean and Arctic Research, *World Climate Research Programme CLIVAR Conference*, (first author with D. Legler, J. Calder, C. Clark, K. Crane, J. Levy, G. Lichota, S. Piotrowicz, S. Thurston), October, Denver, CO (poster)
- 2011 Observations for Climate: Comparison of Ocean Reference Stations Observations to the ECMWF-Interim Reanalysis Products, *World Climate Research Programme CLIVAR Conference*, (co-author with R. Lucas, F. Santiago-Mandujano, R. Weller, A. Plueddemann, C. Fairall, F. Bradley), October, Denver, CO (poster)
- 2004 NOAA's Office of Climate Observation, *Data Buoy Cooperation Panel*, October 19, Chennai, India
- 2004 The Global Ocean Observing System, *International Arctic Buoy Programme Meeting*, July 9, Geneva, Switzerland
- 2003 Advances in the Global Ocean Observing System, *CLIMAR-II/Brussels Maritime Conference*, November 19, Brussels, Belgium (poster)

National

- 2016 Environmental Change in Barrow, Alaska resulting from a 2015 Record Heat Wave, *44th Global Monitoring Annual Conference (GMAC)*, Boulder CO, May 17 (poster)
- 2016 NOAA's Ocean Climate Observation Program, *Ocean Sciences 2016*, (first author with D. Legler), February, New Orleans, LA (poster)
- 2016 The Need for an Integrated Global Greenhouse Gas Information System (IG³IS), *Annual Meeting of the American Meteorological Society*, (first author with J. Butler, P. DeCola, O. Tarasova, D. Terblanche), January, New Orleans, LA (poster)
- 2015 Near-Record Early Snowmelt and Signs of Environmental Change in Barrow, Alaska, *American Geophysical Union*, (first author with R. Stone, C. Cox, G. Divoky, C. Sweeney, and C. George), December, San Francisco, CA (poster)
- 2015 Pan-Arctic surface radiation measurements for analysis of Arctic climate change, *American Geophysical Union*, (co-author with C. Cox, C. Long, N. Miller, T. Uttal, S. Starkweather, R. Stone, V. Walden, A. McComiskey, E. Konopleva, S. Crepinsek), December, San Francisco, CA (poster)
- 2015 Challenges in Using Observations to Evaluate Greenhouse Gas Emissions, *Annual Meeting of the*

- American Meteorological Society*, (co-author with J. Butler, O. Tarasova), Jan 5, Phoenix, AZ
- 2014 Changes in the Length of the Snow-free Season in Barrow, Alaska, *American Geophysical Union*, (first author with R. Stone), December, San Francisco, CA (poster)
- 2009 Comparisons of in situ observations of bulk near-surface meteorological variables, turbulent and radiative fluxes, and cloud properties with operational NWP models in the VOCALS region, *American Geophysical Union*, (co-authored poster with C. W. Fairall, R. Weller, E.F. Bradley, Huai-min Zhang, W. Hankins, and A. Beljaars), December, San Francisco, CA
- 2007 Global Ocean Observations, *Association of American Geographers Meeting*, March, San Francisco, CA (illustrated poster)
- 2007 NOAA's Role in the Expansion of the Global Ocean Observing System for Climate, *American Meteorological Society Annual Meeting*, January 18, San Antonio, TX (with M. Johnson)
- 2006 NOAA's Contributions to the Global Ocean Observing System, *American Meteorological Society Annual Meeting*, February 7, Atlanta, GA
- 2005 Building a Global Ocean Observing System for Climate, *Marine Technology Society/IEEE Oceans 2005*, September 20, Washington, D.C.
- 2005 NOAA's Role in Building a Global Ocean Observing System, *American Meteorological Society Annual Meeting*, January 11, San Diego, CA (with M. Johnson)
- 2004 The Role of the Ocean in Climate, *CLIVAR conference*, June 23, Baltimore, MD (poster)
- 2004 Advances in the Global Ocean Observing System, *Annual Meeting of the Association of American Geographers*, March 19, Philadelphia, PA

RECENT LEADERSHIP DEVELOPMENT

- NOAA OAR Leadership Effectiveness and Advancement Program (LEAP) Mentor and Coach for second class of LEAP participants, 2012 – 2013 (and ongoing leadership activities)
- Completed NOAA OAR Leadership Effectiveness and Advancement Program (LEAP), 2011

HONORS AND AWARDS

- 2014 NOAA Tip Top Toastmasters Competent Leadership Certificate
- 2013 Inducted into The Society of Woman Geographers
- 2013 NOAA Tip Top Toastmasters Competent Communicator Award
- 2005 NOAA Environmental Hero Award
- 2005 NOAA Office of Global Programs Peer Award for Initiative
- 1999 Department of Geography-Earth Science Faculty Research Award – Shippensburg University
- 1995 Arizona-Nevada Academy of Science Best Student Paper Award
- 1989 SUNY Geneseo Scholar-Athlete Award

SIGNIFICANT COMMITTEES / APPOINTMENTS

- NOAA Deputy Representative for the *United States Global Change Research Program*, 2013-present

- USGCRP Observations Interagency Working Group NOAA representative, 2015-present
- Co-chair/Member Board for Higher Education, *American Meteorological Society*, (2013-16/2005-12)
- Public Access to Research Results Member
- Reviewer/Panelist, Geography and Regional Science Doctoral Dissertation Research Advisory Board, *National Science Foundation*, 2006-2008
- Climate Education Working Group Member, *NOAA*, 2003-2007
- Director, Climate Specialty Group, *Association of American Geographers*, 2004-2006
- Executive Director and Board Member, *Pennsylvania Geographical Society*, 2002-2005

PROFESSIONAL MEMBERSHIPS

- American Geophysical Union
- American Meteorological Society
- American Association of Geographers
- Pennsylvania Geographical Society
- The Society of Woman Geographers

SELECT WORKSHOPS / MEETINGS / COURSES / TRAININGS ATTENDED

International

- 2016 *OceanSITES Data Management and Science Steering Committee Meeting*, Southampton, England, April
- 2014 *OceanSITES Data Management and Science Steering Committee Meeting*, Porto de Galinhas, Brazil, November 3-6
- 2013 *OceanSITES Data Management and Science Steering Committee Meeting*, Seoul National University, Seoul, South Korea, May 27-30
- 2013 *U.S. Atlantic Meridional Overturning Circulation (AMOC)/U.K. RAPID Science Meeting: AMOC Variability: Dynamics and Impacts*, Baltimore, MD, July 16-19
- 2011 *OceanSITES Data Management and Science Steering Committee Meeting*, Scripps Institution of Oceanography, November 28 – December 2
- 2004 CLIVAR Workshop: *North Atlantic Thermohaline Circulation Variability*, Kiel, Germany, September 13-16
- 2003 *Data Buoy Cooperation Panel (DBCP)*, Angra dos Reis, Brazil, October 19-26
- 2003 *Ocean Observations Panel for Climate*, Ottawa, Canada, September 3-6

National / Regional / NOAA

- 2014 AMS Summer Policy Colloquium, Washington, DC, June 2-10
- 2014 Climate Variability and Change in the California Current Ecosystem, April 22-25
- 2012 *U.S. Atlantic Meridional Overturning Circulation (AMOC) Science Meeting*, Boulder, CO, August 15-17
- 2012 *U.S. National Glider Strategy Development Workshop*, La Jolla, CA, August 1-3
- 2011 *U.S. CLIVAR Summit*, Woods Hole, MA, July 21-24
- 2009 *Ocean Observatories Initiative Workshop*, Baltimore, MD, November 11
- 2009 *US Atlantic Meridional Overturning Circulation Meeting*, Annapolis, MD, May 4-6
- 2009 *CLIVAR Western Boundary Current Workshop*, Phoenix, AZ, January 15-17

PUBLIC SERVICE

Presented >50 science talks to civic groups, schools, and community organizations; science fair judge

Revised: October 2016