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Education:

Master of Science: *Meteorology*, December 1991, University of Wisconsin, Madison, WI
Thesis: Antarctic Climate Anomalies Associated with the Minimum of the Southern Oscillation Index.
Advisor: Professor Charles R. Stearns

Bachelor of Science: *Earth Science*, June 1989, High Honor, Lyman Briggs School, Michigan State University, East Lansing, MI
Thesis: A Climatological and Impact Study of Heavy Rain Events in the Lower Peninsula of Michigan.
Advisor: Professor Jay Harman

Professional Experience:

Florida State University: Research Associate	08/2008 - present
Florida State University: Associate in Research	10/2000 – 08/2008
Florida State University: Assistant in Research	07/1994 - 10/2000
Ohio State University: Research Associate	07/1992 - 06/1994
University of Wisconsin: Research Assistant	01/1992 - 06/1992
University of Wisconsin: Graduate Research Asst.	08/1989 - 12/1991

Field Experience:

- Byrd Polar Research Center in conjunction with the U.S. Antarctic Program and the NSF, October to December 1992. Coordinated science, logistics, and personnel for a 9-week remote field study of the Antarctic boundary layer using surface based wind (Sodar) and temperature (RASS) profilers, surface instruments, and radiosondes.
- University of Wisconsin in conjunction with the U.S. Antarctic Program and the NSF, January 1991. Installed and repaired automated weather stations in Antarctica.

Professional Membership: American Meteorological Society, American Geophysical Union

Other Professional Activities:

Chair: Shipboard Automated Meteorological and Oceanographic System (SAMOS) Initiative [<http://samos.coaps.fsu.edu/>]
Member: JCOMM SOT task team for delayed-mode VOS
JCOMM SOT task team for instrument standards
Reviewer: *Climate Dynamics, J. Climate, J. Climatology, Mon. Wea. Rev., J. Atmos. Ocean. Technology, Atmospheric Science Letters, NSF, NOAA*

Refereed Publications:

- Hughes, P., and M. A. Bourassa, J. Rolph, and **S. R. Smith**, 2011: An examination of FSU3 turbulent heat flux methodology. *J. Clim.*, submitted.
- Smith, S. R.**, M. A. Bourassa, and M. Long, 2011: Pirate attacks affect Indian Ocean climate research. *EOS, Trans Amer. Geophys. Union*, **92**(27), 225-226.
- Smith, S.R.**, P.J. Hughes, and M. A. Bourassa, 2011: A comparison of nine monthly air-sea flux products. *Int. J. Climatology*, doi:10.1002/joc.225. (In press).
- Woodruff, S., S. Worley, S. Lubker, Z. Ji, E. Freeman, D. Berry, P. Brohan, E. Kent, R. Reynolds, **S. R. Smith**, and C. Wilkinson, 2011: ICOADS Release 2.5: Extensions and Enhancements to the Surface Marine Meteorological Archive. *Int. J. Climatology*. doi:10.1002/joc.2103. (in press).
- Smith, S. R.**, M. A. Bourassa, E. F. Bradley, C. Cosca, C. W. Fairall, G. J. Goni, J. T. Gunn, M. Hood, D. L. Jackson, E. C. Kent, G. Lagerloef, P. McGillivray, L. Petit de la Villeon, R. T. Pinker, E. Schulz, J. Sprintall, D. Stammer, A. Weill, G. A. Wick, M. J. Yelland, 2010: Automated Underway Oceanic and Atmospheric Measurements from Ships. *Proceedings of the "OceanObs'09: Sustained Ocean Observations and Information for Society" Conference (Vol. 2)*, Venice, Italy, 21-25 September 2009, Hall, J., Harrison D.E. and Stammer, D., Eds., ESA Publication WPP-306, doi:10.5270/OceanObs09.cwp.82.
- Smith, S. R.**, J. Rettig, J. Rolph, J. Hu, E. C. Kent, E. Schulz, R. Verein, S. Rutz, and C. Paver, 2010: The Data Management System for the Shipboard Automated Meteorological and Oceanographic System (SAMOS) Initiative. *Proceedings of the "OceanObs'09: Sustained Ocean Observations and Information for Society" Conference (Vol. 2)*, Venice, Italy, 21-25 September 2009, Hall, J., Harrison D.E. and Stammer, D., Eds., ESA Publication WPP-306, doi:10.5270/OceanObs09.cwp.83.
- Fairall, C. W., B. Barnier, D. I. Berry, M. A. Bourassa, E. F. Bradley, C. A. Clayson, G. de Leeuw, W. H. Drennan, S. T. Gille, S. K. Gulev, E. C. Kent, W. R. McGillis, G. D. Quartly, V. Ryabinin, **S. R. Smith**, R. A. Weller, M. J. Yelland, H.-M. Zhang, 2010: Observations to quantify air-sea fluxes and their role in climate variability and predictability. *Proceedings of the "OceanObs'09: Sustained Ocean Observations and Information for Society" Conference (Vol. 2)*, Venice, Italy, 21-25 September 2009, Hall, J., Harrison D.E. and Stammer, D., Eds., ESA Publication WPP-306, doi:10.5270/OceanObs09.cwp.27.
- Gulev, S. K., S. A. Josey, M. A. Bourassa, L.-A. Breivik, M. F. Cronin, C. Fairall, S. Gille, E. C. Kent, C. M. Lee, M. J. McPhaden, P. M. S. Monteiro, U. Schuster, **S. R. Smith**, K. E. Trenberth, D. Wallace, and S. D. Woodruff, 2010: Surface fluxes and processes including sea ice. In *Proceedings of the "OceanObs'09: Sustained Ocean Observations and Information for Society" Conference (Vol. 1)*, Venice, Italy, 21-25 September 2009, Hall, J., Harrison D.E. and Stammer, D., Eds., ESA Publication WPP-306, doi:10.5270/OceanObs09.pp.19.
- Hood, M., and 39 Coauthors (including **S. R. Smith**), 2010: Ship-based repeat hydrography: A strategy for a sustained global program. *Proceedings of the "OceanObs'09: Sustained Ocean Observations and Information for Society" Conference (Vol. 2)*, Venice, Italy, 21-25 September 2009, Hall, J., Harrison D.E. and Stammer, D., Eds., ESA Publication WPP-306, doi:10.5270/OceanObs09.cwp.44.
- Roemmich, D., L. Boehme, H. Claustre, H. Freeland, M. Fukasawa, G. Goni, W. J. Gould, N. Gruber, M. Hood, E. C. Kent, R. Lumpkin, **S. R. Smith**, P. Testor, 2010: Integrating the ocean observing system: Mobile platforms. *Proceedings of the "OceanObs'09: Sustained Ocean Observations and Information for Society" Conference (Vol. 1)*, Venice, Italy, 21-25 September 2009, Hall, J., Harrison D.E. and Stammer, D., Eds., ESA Publication WPP-306, doi:10.5270/OceanObs09.pp.33.
- Worley, S. J., S. D. Woodruff, S. J. Lubker, Z. Ji, E. Freeman, E. C. Kent, P. Brohan, D. I. Berry, **S. R. Smith**, C. Wilkinson, and R. W. Reynolds, 2010: The role of ICOADS in the sustained ocean observing system. *Proceedings of the "OceanObs'09: Sustained Ocean Observations and Information*

- for Society" Conference (Vol. 2), Venice, Italy, 21-25 September 2009, Hall, J., Harrison D.E. and Stammer, D., Eds., ESA Publication WPP-306, doi:10.5270/OceanObs09.cwp.94.
- Arguez, A., J. J. O'Brien, and **S. R. Smith**, 2009: Air temperature impacts over Eastern North America and Europe associated with low-frequency North Atlantic SST variability. *Int. J. Climatol.*, **29**, 1-10.
- Kennedy, A. J., M. L. Griffin, S. L. Morey, **S. R. Smith**, and J. J. O'Brien, 2007: Effects of El Niño-Southern Oscillation on sea-level anomalies along the Gulf of Mexico coast. *J. Geophys. Res.*, **112**, C05047, doi:10.1029/2006JC003904.
- Smith, S. R.**, C. Tartaglione, J. J. O'Brien, and J. Brolley, 2007: ENSO's impact on regional U.S. hurricane activity. *J. Climate*, **20**, 1404-1414.
- Smith, S. R.**, 2006: A Partnership between Shipboard Oceanic and Atmospheric Data Programs. *EOS, Trans Amer. Geophys. Union*, **87**, 463, 466.
- Gould, W. J. and **S. R. Smith**, 2006: Research vessels: Underutilized assets for climate observations. *EOS, Trans Amer. Geophys. Union*, **87**, 214-215.
- Bourassa, M. A., R. Romero, **S. R. Smith**, and J. J. O'Brien, 2005: A new FSU wind climatology. *J. Climate*, **18**, 3692-3704.
- Smith, S. R.**, 2004: Focusing on improving automated meteorological observations from ships. *EOS, Trans Amer. Geophys. Union*, **85**, 319.
- Smith, S. R.**, J. Servain, D. M. Legler, J. N. Stricherz, M. A. Bourassa, and J. J. O'Brien, 2004: In-situ based pseudo-wind stress products for the tropical oceans. *Bull. Amer. Meteor. Soc.*, **85**, 979-994.
- Enloe, J., J. J. O'Brien, and **S. R. Smith**, 2004: ENSO impacts on peak wind gusts in the United States. *J. Climate*, **17**, 1728-1737.
- Curry, J. A., A. Bentamy, M. A. Bourassa, D. Bourras, E. F. Bradley, M. Brunke, S. Castro, S. H. Chou, C. A. Clayson, W. J. Emery, L. Eymard, C. W. Fairall, M. Kubota, B. Lin, W. Perrie, R. A. Reeder, I. A. Renfrew, W. B. Rossow, J. Schulz, **S. R. Smith**, P. J. Webster, G. A. Wick, X. Zeng. 2004: SEAFLUX. *Bull. Amer. Meteor. Soc.*, **85**, 409-424.
- Patten, J. M., **S. R. Smith**, and J. J. O'Brien, 2003: Impacts of ENSO on United States snowfall frequencies. *Weather and Forecasting*, **18**, 965-980.
- Tartaglione, C., **S. R. Smith**, and J. J. O'Brien, 2003: ENSO impact on hurricane landfall probabilities for the Caribbean. *J. Climate*, **16**, 2925-2931.
- Hanley, D. E., M. A. Bourassa, J. J. O'Brien, **S. R. Smith**, and E. R. Spade, 2003: A quantitative evaluation of ENSO indices. *J. Climate*, **16**, 1249-1258.
- Bourassa, M. A., D. M. Legler, J. J. O'Brien, and **S. R. Smith**, 2003: SeaWinds Validation with Research Vessels. *J. Geophys. Res.*, **108**, DOI 10.1029/2001JC001028.
- Smith, S. R.**, M. A. Bourassa, and R. J. Sharp, 2003: Establishing more truth in true winds. Reprinted with permission of AMS in: *WMO Guide to the Applications of Marine Climatology*, JCOMM Tech. Rep. 13, WMO TD 1081, WMO, Geneva, Switzerland, CDROM.
- Smith, S. R.**, D. M. Legler, and K. V. Verzone, 2001: Quantifying uncertainties in NCEP reanalyses using high quality research vessel observations. *J. Climate*, **14**, 4062-4072.
- Smith, S. R.**, and J. J. O'Brien, 2001: Regional snowfall distributions associated with ENSO: Implications for seasonal forecasting. *Bull. Amer. Meteor. Soc.*, **82**, 1179-1191.
- Smith, S. R.**, D. M. Legler, M. J. Remigio, and J. J. O'Brien, 1999: Comparison of 1997-1998 U.S. temperature and precipitation anomalies to historical ENSO warm phases. *J. Climate*, **12**, 3507-3515.
- Smith, S. R.**, M. A. Bourassa, and R. J. Sharp, 1999: Establishing more truth in true winds. *J. Atmos. Oceanic Technol.*, **16**, 939-952.
- Smith, S. R.**, P. M. Green, A. P. Leonardi, and J. J. O'Brien, 1998: Role of multiple-level tropospheric circulations in forcing ENSO winter precipitation anomalies. *Mon. Wea. Rev.*, **126**, 3102-3116.

- Chen, B., **S. R. Smith**, and D. H. Bromwich, 1996: Evolution of the Tropospheric Split Jet over the South Pacific Ocean during the 1986-89 ENSO cycle. *Mon. Wea. Rev.*, **124**(8), 1711-1731.
- Smith, S. R.** and S. Teeuwisse, 1994: Whiteout! *Weatherwise*, **47**(5), 54, 51.
- Smith, S. R.** and C. R. Stearns, 1993: Antarctic Climate Anomalies Surrounding the Minimum in the Southern Oscillation index. *Antarctic Research Series: Antarctic Meteorology and Climatology*. Vol **61**, D. H. Bromwich and C. R. Stearns (Eds.), 149- 174.
- Smith, S. R.** and C. R. Stearns, 1993: Antarctic Pressure and Temperature Anomalies Surrounding the Minimum in the Southern Oscillation index. *J. Geophys. Res.*, **98**(D7), 13,071-13,084.

Other Publications:

- Briggs, K., **S. R. Smith**, and J. J Rolph, 2011: *2010 SAMOS Data Quality Report*. Available from Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, FL, 32306-2840, USA, 126 pp. [http://samos.coaps.fsu.edu/html/docs/2010SAMOSAnnualReport_final.pdf]
- Sullivan, D., L. Rosenfeld, **S. R. Smith**, and T. Murphree, 2010: *Oceanographic instrumentation technician. Knowledge and Skill Guidelines for Marine Science and Technology*. Available from Marine Advanced Technology Education Center, Monterey, CA, 93940. USA, 20 pp.
- Briggs, K., **S. R. Smith**, and J. J Rolph, 2010: *2009 SAMOS Data Quality Report*. Available from Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, FL, 32306-2840, USA, 126 pp. [http://samos.coaps.fsu.edu/html/docs/2009SAMOSAnnualReport_final.pdf]
- Rettig, J. T., M. A. Bourassa, J. Hu, E. M. McDonald, J. J. Rolph, and **S. R. Smith**, 2009: Data management system to collect, quality control, distribute, and archive near real-time marine data. *E-journal of Data Integration and Management on the Gulf of Mexico*, 4 pp. Available from <http://cs.tamucc.edu/dim/docs/papers/Jacob%20Rettig.doc>.
- Smith, S. R.**, and L. Petit de la Villeon, 2008: Report of the 2nd Joint GOSUD/SAMOS Workshop. Center for Ocean-Atmospheric Prediction Studies, Florida State University, 71 pp. [Available from COAPS, The Florida State University, Tallahassee, FL 32306-2840].
- Smith, S. R.**, R. N. Maue, and M. A. Bourassa, 2008: Global winds. *State of the Climate in 2007*. D. H. Levinson and J. H. Lawrimore, Eds., *Bull. Amer. Meteor. Soc.*, **89**, S32-S34.
- Bourassa, M. A, R. N. Maue, **S. R. Smith**, P. J. Hughes, and J. Rolph, 2007: Global winds. *State of the Climate in 2006*. A. Arguez, H. J. Diamond, F. Fetterer, A. Horvitz, and J. M. Levy, Eds., *Bull. Amer. Meteor. Soc.*, **88**, S25-S27.
- Smith, S. R.**, 2007: Shipboard Automated Meteorological and Oceanographic System (SAMOS) Initiative. Report for 4th session of the JCOMM Ship Observation Team meeting, 16-21 April 2007, Geneva, Switzerland, 2 pp.
- Smith, S. R.**, R. Keeley, and T. Delcroix, 2006: Report of the 1st Joint GOSUD/SAMOS Workshop. UCAR Joint Office for Science Support, Boulder, CO, USA, 63 pp. [Available from COAPS, The Florida State University, Tallahassee, FL 32306-2840].
- Smith, S. R.**, A. Bentamy, and C. A. Clayson, 2006: SEAFLUX 3rd Workshop. FLUX NEWS, Newsletter of the WCRP Working Group on Surface Fluxes, WCRP, Issue 2. [Available from <http://www.esrl.noaa.gov/psd/psd3/wgsf/>].
- Josey, S. A., and **S. R. Smith**, 2006: Guidelines for evaluation of air-sea heat, freshwater, and momentum flux datasets. Prepared in response to CLIVAR Global Synthesis and Observations Panel (GSOP) First Session Recommendation 28, 14pp. [Available on line: <http://www.noc.soton.ac.uk/JRD/MET/PDF/gsofg.pdf>]
- Hughes, P. J., M. A. Bourassa, J. Rolph, and **S. R. Smith**, 2006: Interdecadal Variability of Surface Heat Fluxes Over the Atlantic Ocean. *CAS/JSC Working Group on Numerical Experimentation, Research*

- Activities in Atmospheric and Oceanic Modeling*, World Meteorological Organization, ed. J. Côté, 2:17-18 pp.
- O'Brien, J. J., M. A. Bourassa, and **S. R. Smith**, 2005: Climate variability in ocean surface turbulent fluxes. Annual Report: The State of the Ocean and the Ocean Observing System for Climate, NOAA Office of Climate Observation, Silver Spring, MD, 20910. USA, 214-219 pp.
- O'Brien, J. J., M. A. Bourassa, and **S. R. Smith**, 2005: U.S. research vessel surface meteorology data assembly center. Annual Report: The State of the Ocean and the Ocean Observing System for Climate, NOAA Office of Climate Observation, Silver Spring, MD, 20910. USA, 221-228 pp.
- Smith, S. R.**, 2005: *Shipboard Automated Meteorological and Oceanographic System (SAMOS) Initiative*. Report for 3rd session of the JCOMM Ship Observation Team meeting, 7-12 March 2005, IFREMER, Brest, France, 7pp., [Available from COAPS, The Florida State University, Tallahassee, FL 32306-2840].
- Smith, S. R.**, 2004: GSOP report on Ocean Observations: Surface Meteorology from Research Vessels. CLIVAR Global Synthesis and Observation Panel Meeting, Boulder, 7pp.
- Smith, S. R.**, 2004: Report from the 2nd Workshop on High Resolution Marine Meteorology, **COAPS Report 04-01**, Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, Florida, 32306-2840, USA, 31pp.
- Smith, S. R.**, M. A. Bourassa, and R. Romero-Centeno, 2003: Tropical Pacific wind comparisons: objective FSU vs. NCEP reanalysis products, *CAS/JSC Working Group on Numerical Experimentation, Research Activities in Atmospheric and Oceanic Modeling*, WMO, ed. J. Côté, 2003 Edition, 2.25-2.26.
- Smith, S. R.**, R. M. Reynolds, and J. J. O'Brien, 2003: *Report and Recommendations from the Workshop on High-Resolution Marine Meteorology*, **COAPS Report 03-1**, Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, Florida, 32306-2840, USA, 38pp.
- Arguez, A., **S. R. Smith**, and J. J. O'Brien, 2002: The relationship between low-frequency North Atlantic sea surface temperatures and Eastern North American climate. **COAPS Report 02-6**, Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, FL, 32306-2840. USA, 55 pp.
- Tartaglione, C. S., D. E. Hanley, J. J. O'Brien, and **S. R. Smith**, 2002: Regional Effects of ENSO on U.S Hurricane Landfalls. **COAPS Report 02-5**, Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, FL, 32306-2840. USA, 45 pp.
- Enloe, J., J. J. O'Brien, and **S. R. Smith**, 2002: ENSO impacts on peak wind gusts in the United States. **COAPS Report 02-3**, Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, FL, 32306-2840. USA, 41 pp.
- Hanley, D. E., M. A. Bourassa, J. J. O'Brien, **S. R. Smith**, and E. R. Spade, 2001: The many faces of ENSO (A quantitative evaluation of ENSO indices). **COAPS Report 01-1**, Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, FL, 32306-2840. USA, 31 pp.
- Smith, S. R.**, M. A. Bourassa, and D. M. Legler, 2000: *Plan for a VOS-IMET Delayed Mode Data Center at the Florida State University*, **COAPS Report 2000-04**, Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, Florida, 32306-2840, USA, 10pp.
- Smith, S. R.**, J. P. Camp, and D. M. Legler, 1996: *TOGA/COARE Handbook of Quality Control Procedures and Methods for Surface Meteorology Data*. **COAPS Report No. 96-3**, COARE Data Processing Center for Surface Meteorology, Center for Ocean Atmospheric Prediction Studies, Florida State University, Tallahassee, Florida, 60pp.
- Smith, S. R.**, C. Harvey, and D. M. Legler, 1996: *Handbook of Quality Control Procedures and Methods for Surface Meteorology Data*. **COAPS Report No. 96-1**, WOCE Data Assembly Center for Surface

Meteorology, Center for Ocean Atmospheric Prediction Studies, Florida State University, Tallahassee, Florida, 49pp.

Smith, S. R., J. F. Carrasco, and Z. Liu, 1993: A Case Study of a Siple Coast Mesocyclone. *Antarct. J. U.S.*, **28**(5), 283-285.

Bromwich, D. H. and **S. R. Smith** (Eds.), 1993: *U.S. FROST: Data and Science Plan. Report from the U.S. FROST Workshop. BPRC Report No. 7*, Byrd Polar Research Center, The Ohio State University, Columbus, Ohio, 40pp.

Published Data Sets:

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WOCE Data Products Committee, 2000: *WOCE Global Data, Version 2.0, "Surface Fluxes"*. WOCE Report No. 171/00, World Ocean Circulation Experiment International Project Office, Southampton, UK, CD-ROM.

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Legler, D. M., **S. R. Smith**, and J. N. Stricherz, 1997: *WOCE Southern Hemisphere Surface Meteorology CD-ROM*. WOCE Data Assembly Center for Surface Meteorology, Center for Ocean Atmospheric Prediction Studies, Florida State University, Tallahassee, Florida.

Legler, D. M., **S. R. Smith**, and J. N. Stricherz, 1996: *TOGA-COARE IOP Surface Meteorology Archive CD-ROM*. COARE Surface Meteorology Data Processing Center/Data Archival and Distribution Center, Center for Ocean Atmospheric Prediction Studies, Florida State University, Tallahassee, Florida.