

## **Contact Information:**

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## **Education:**

*B.S. in METEOROLOGY*, May 2003, Florida State University, Tallahassee, Florida

*MINOR in MATHEMATICS*

Florida State University (2000 – 2003)

Santa Fe Community College (1999 – 2000)

Valencia Community College (1998 – 1999)

University of Central Florida (1997 – 1998)

Manatee Community College (dual enrollment) (1995 – 1996)

## **Professional Experience:**

Employed at Center for Ocean Atmospheric Prediction Studies since 19 May 2003 as meteorologist.

*Responsibilities:*

Supervise production of in-situ FSU Winds and Fluxes - oversee monthly data acquisition, assist in

QC of FSU Winds products (Quicklook and Research), perform code testing

Perform Quality Control on FSU Winds and Fluxes

Train Others in QC of R/V Data

Update Monthly JMA-Index on COAPS web/ftp server

Manage and Process Incoming Research Vessel Data

Perform Quality Control (automated and visual) of all Research Vessel Data released by the Data Center at COAPS

Write Technical Research Vessel Quality Control Reports

*Duties:*

Research Meteorological Topics Assigned by Senior Science Staff and Write Associated Reports

Member of High Resolution Marine Meteorology Initiative Planning Committee - plan and design new procedures for near real-time shipboard meteorological data quality control (SAMOS)

Preparation of scientific graphics for use in data analysis, processing and management using IDL and Matlab

Assist students with IDL and Matlab

Instruct and assist others on the use of Quality Control tools and procedures

Supply Research Vessel data and Quality Control expertise to other researchers at COAPS

*Computer skills:*

IDL, Matlab, UNIX, Mac OS-X, Windows, C, html, Microsoft Word and EXCEL, Adobe Illustrator and Photoshop, FORTRAN, GARP, GEMPAK

*Data Skills:*

Data analysis, interpretation, and manipulation

Ability to produce marine and atmospheric forecasts using surface, upper air, satellite, and model output data.

**Honors:**

Dean's List, Valencia Community College

President's List, Santa Fe Community College

**Publications**

*Peer Reviewed*

Bourassa, M.A., S.R. Smith, P.J. Hughes, and J.J. Rolph, 2006, ATLANTIC MONTHLY AIR-SEA FLUXES AND THE 2005 HURRICANES, State of the Climate in 2005, *Bull. Amer. Meteor. Soc.*, **87**, 535 pp.

Hughes, P.J., M.A. Bourassa, J.J. Rolph, and S.R. Smith, 2008: Tropical Atlantic Flux Variability. *J. Atmos. Ocean Technol.*, in preparation with submission in spring.

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 M.J. Levy, Eds., *Bull Amer. Meteor. Soc.*, **88**, S25 – S 27.

*Non-peer Reviewed*

Hughes, P.J., M.A. Bourassa, J.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*, 2:17-18pp., World Meteorological Organization, ed. J. Côté.

**Technical Reports:**

Rolph, J.J., and S.R. Smith, 2003: Ronald H. Brown IMET Data Quality Control Report: 1999 & 2000. RVSMDC Report 03-01, Center for Ocean-Atmospheric Prediction Studies, The Florida State University, Tallahassee, Fl 32306-2840.

Rolph, J.J., and S.R. Smith, 2003: Ka' Imimoana IMET Data Quality Control Report: 1999, 2000, and 2001. RVSMDC Report 03-02, Center for Ocean-Atmospheric Prediction Studies, The Florida State University, Tallahassee, Fl 32306-2840.

Rolph, J.J., and S.R. Smith, 2003: Ronald Brown IMET Data Quality Control Report: 2002. RVSMDC Report 03-03, Center for Ocean-Atmospheric Prediction Studies, The Florida State University, Tallahassee, Fl 32306-2840.

Rolph, J.J., and S.R. Smith, 2003: Recommendations for the Elimination of the Stack Exhaust Problem on the R/V Meteor. RVSMDC Report 03-04, Center for Ocean-Atmospheric Prediction Studies, The Florida State University, Tallahassee, Fl 32306-2840.

Rolph, J.J., and S.R. Smith, 2003: Ronald Brown IMET Data Quality Control Report: August 2002 - September 2003. RVSMDC Report 03-05, Center for Ocean-Atmospheric Prediction Studies, The Florida State University, Tallahassee, Fl 32306-2840.

Rolph, J.J., and S.R. Smith, 2004: Ronald Brown IMET Data Quality Control Report: September – November 2003. RVSMDC Report 04-01, Center for Ocean-Atmospheric Prediction Studies, The Florida State University, Tallahassee, Fl 32306-2840.

Rolph, J.J., and S.R. Smith, 2004: Polarstern AWS Data Quality Control Report: May 2003 – June 2004. RVSMDC Report 04-02, Center for Ocean-Atmospheric Prediction Studies, The Florida State University, Tallahassee, Fl 32306-2840.

Rolph, J.J., and S.R. Smith, 2005: Ronald Brown IMET Data Quality Control Report: February – May 2004. RVSMDC Report 05-01, Center for Ocean-Atmospheric Prediction Studies, The Florida State University, Tallahassee, Fl 32306-2840.

Rolph, J.J., and S.R. Smith, 2005: R/V Meteor IMET Data Quality Control Report: 11 June – 4 May 2004. RVSMDC Report 05-02, Center for Ocean-Atmospheric Prediction Studies, The Florida State University, Tallahassee, Fl 32306-2840.

Rolph, J.J., and S.R. Smith, 2005: SAMOS netCDF Code Manual for Quality Controlled Surface Meteorological Data. RVSMDC Report 05-03, Center for Ocean-Atmospheric Prediction Studies, The Florida State University, Tallahassee, FL 32306-2840.

Rolph, J.J., and S.R. Smith, 2005: Ronald Brown IMET Data Quality Control Report: May 2004 – March 2005. RVSMDC Report 05-04, Center for Ocean-Atmospheric Prediction Studies, The Florida State University, Tallahassee, FL 32306-2840.

Rolph, J.J., and S.R. Smith, 2006: Ronald Brown IMET Data Quality Control Report: July 2005 – November 2005. RVSMDC Report 06-02, Center for Ocean-Atmospheric Prediction Studies, The Florida State University, Tallahassee, FL 32306-2840.

### **Science Meeting Talks:**

Bourassa, M.A., P.J. Hughes, J.J. Rolph, S.R. Smith, 2006: Tropical cyclone activity and North Atlantic decadal variability of ocean surface fluxes. *NOAA Climate Observation Program 4<sup>th</sup> Annual System Review*, May, Silver Spring, MD.

### **Science Meeting Posters:**

Rolph, J. J., S.R. Smith, and M. A Bourassa, 2004: Quality of NOAA Vessel Underway Marine Meteorology. *NOAA Office of Climate Observation Annual System Review*, April, Silver Spring, MD, CDROM.

Smith, S.R., M. A. Bourassa, J. J. O'Brien, and J. J. Rolph, 2004: Ocean Surface Data and Products from COAPS. *NOAA Office of Climate Observation Annual System Review*, Silver Spring, MD, CDROM.

Smith, S.R., M.A. Bourassa, J.J. Rolph, and P. Hughes, 2006: The FSU fluxes for the Atlantic and Indian Oceans. *NOAA Climate Observation Program 4<sup>th</sup> Annual System Review*, Silver Spring, MD, USA, NOAA, CDROM.

Hughes, P.J., M.A. Bourassa, J. Rolph, and S.R. Smith, 2006: North Atlantic decadal variability of latent and sensible heat fluxes. *Fall AGU Meeting*, Dec., CA.

Smith, S.R., J.J. Rolph, and M.A. Bourassa, 2007: Progress of the Shipboard Automated Meteorological and Oceanographic System (SAMOS) Initiative Data Assembly Center. Short Abstract, climate Observation Division 5<sup>th</sup> Annual System Review, Silver Spring, MD, USA, NOAA, in press.

Bourassa, M.A., J. Rolph, P. Hughes, and S.R. Smith, 2007: An Update of the FSU3 Winds and Fluxes. Short Abstract, Climate Observation Division 5<sup>th</sup> Annual System Review, Silver Spring, MD, USA, NOAA.

- Smith, S. R., and J. Rolph, 2008: SAMOS Metadata: Architecture and Lessons Learned. Presentation, NSF Legacy of Ocean Exploration Project Data Management Meeting, LDEO, Palisades, NY, 3-5 September 2008.
- Smith, S. R., J. Rolph, and M. A. Bourassa, 2008: Activities of the Shipboard Automated Meteorological and Oceanographic System (SAMOS) Initiative Data Assembly Center. Short Abstract, NOAA Climate Observation Division 6th Annual System Review, Silver Spring, MD, 3-5 September 2008.
- Bourassa, M. A., P. J. Hughes, S. R. Smith, and J. Rolph, 2008: Recent Air/Sea Flux Activities and FSU. Short Abstract, NOAA Climate Observation Division 6th Annual System Review, Silver Spring, MD, 3-5 September 2008.
- Rolph, J., S. R. Smith, and M. A. Bourassa, 2008: Quality evaluation of marine meteorological observations. Short Abstract, 2nd Joint GOSUD/SAMOS Workshop, Seattle, WA, 10-12 June 2008.
- Smith, S. R., M. A. Bourassa, and J. R. Rolph, 2008: Data flow through the Shipboard Automated Meteorological and Oceanographic Systems (SAMOS) Data Assembly Center. Short Abstract, 2nd Joint GOSUD/SAMOS Workshop, Seattle, WA, 10-12 June 2008.
- Rolph, J., S. R. Smith, and M. A. Bourassa, 2008: Quality evaluation of marine meteorological observations. Short Abstract, 2008 Northern Gulf Institute Annual Conference, Biloxi, MS, 13-14 May 2008.
- Smith, S. R., M. A. Bourassa, and J. R. Rolph, 2008: The Shipboard Automated Meteorological and Oceanographic Systems (SAMOS) Initiative. Short Abstract, Third JCOMM Workshop on Advances in Marine Climatology (CLIMAR-III), Gdynia, Poland, 6-9 May 2008.
- Smith, S. R., J. Rolph, and M. A. Bourassa, 2008: The Shipboard Automated Meteorological and Oceanographic System (SAMOS) Initiative. Short Abstract, 2008 Ocean Sciences Meeting, Orlando, FL. 2-7 March 2008.