

KRISTEN BRIGGS

email: kbriggs@fsu.edu

EDUCATION

Florida State University

Master of Science: *Meteorology*

2006

Thesis: "ENSO Event Reproduction: A Comparison of an EOF vs. a Cyclostationary (CSEOF) Approach"

Advisor: Professor Mark A. Bourassa

University of Massachusetts, Dartmouth

Bachelor of Science: *Mathematics*

2003

PROFESSIONAL EXPERIENCE

Florida State University

Research Assistant

2008 – Present

Data analyst for the Shipboard Automated Meteorological and Oceanographic System (SAMOS) project, and contributor to other scientific/programming projects as needed.

Florida State University

Research Associate

2007 – 2007

Technical and scientific participant in FSU/Florida Dept. of Forestry "Fire Project" (time-limited grant).

Florida State University

Graduate Research Assistant

2003 – 2006

Assisted in development and application of a new scientific approach, cyclostationary empirical orthogonal functions (CSEOFs).

University of Massachusetts, Dartmouth

Teaching Assistant

2002 – 2003

Graded linear algebra tests and homework, assisted in lectures, and administered tests.

University of Massachusetts, Dartmouth

Math Tutor

2002 – 2003

Aided students in college math courses by appointment at UMD Math and Business Center.

REFEREED PUBLICATIONS

Smith, S. R., **K. Briggs**, M. A. Bourassa, J. Elya, and C. R. Paver, 2018: Shipboard automated meteorological and oceanographic system data archive: 2005–2017. *Geosci Data J.*, **5**, 73–86.

<https://doi.org/10.1002/gdj3.59>

Smith, S. R., **K. Briggs**, N. Lopez, and V. Kourafalou, 2016: Numerical model evaluation using automated underway ship observations. *J. Atmos. Ocean. Technol.*, **33**, 409–428. doi: 10.1175/JTECH-D-15-0052.1

OTHER PUBLICATIONS

- Briggs, K.,** S. R. Smith, J. J. Rolph, 2019: 2018 SAMOS Data Quality Report. COAPS, Tallahassee, FL, USA, 174 pp. Available from Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, Florida, 32306-2741, USA.
[https://samos.coaps.fsu.edu/html/docs/2018SAMOSAnnualReport_final.pdf]
- Briggs, K.,** S. R. Smith, J. J. Rolph, 2018: 2017 SAMOS Data Quality Report. COAPS, Tallahassee, FL, USA, 167 pp. Available from Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, Florida, 32306-2840, USA.
[http://samos.coaps.fsu.edu/html/docs/2017SAMOSAnnualReport_final.pdf]
- Briggs, K.,** S. R. Smith, J. J. Rolph, 2017: 2016 SAMOS Data Quality Report. COAPS, Tallahassee, FL, USA, 180 pp. Available from Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, Florida, 32306-2840, USA.
[http://samos.coaps.fsu.edu/html/docs/2016SAMOSAnnualReport_final.pdf]
- Briggs, K.,** S. R. Smith, J. J. Rolph, 2016: 2015 SAMOS Data Quality Report. COAPS, Tallahassee, FL, USA, 222 pp. Available from Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, Florida, 32306-2840, USA.
[http://samos.coaps.fsu.edu/html/docs/2015SAMOSAnnualReport_final.pdf]
- Briggs, K.,** S. R. Smith, J. J. Rolph, 2015: 2014 SAMOS Data Quality Report. COAPS, Tallahassee, FL, USA, 192 pp. Available from Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, Florida, 32306-2840, USA.
[http://samos.coaps.fsu.edu/html/docs/2014SAMOSAnnualReport_final.pdf]
- Briggs, K.,** S. R. Smith, J. J. Rolph, 2014: 2013 SAMOS Data Quality Report. COAPS, Tallahassee, FL, USA, 178 pp. Available from Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, Florida, 32306-2840, USA.
[http://samos.coaps.fsu.edu/html/docs/2013SAMOSAnnualReport_final.pdf]
- Briggs, K.,** S. R. Smith, J. J. Rolph, 2013: 2012 SAMOS Data Quality Report. COAPS, Tallahassee, FL, USA, 172 pp. Available from Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, Florida, 32306-2840, USA.
[http://samos.coaps.fsu.edu/html/docs/2012SAMOSAnnualReport_final.pdf]
- Briggs, K.,** S. R. Smith, J. J. Rolph, 2012: 2011 SAMOS Data Quality Report. COAPS, Tallahassee, FL, USA, 140 pp. Available from Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, Florida, 32306-2840, USA.
[http://samos.coaps.fsu.edu/html/docs/2011SAMOSAnnualReport_final.pdf]
- 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]
- 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]

PUBLISHED DATA SETS

- Smith, S. R., J. J. Rolph, **K. Briggs,** M. A. Bourassa, 2009: Quality-Controlled Underway Oceanographic and Meteorological Data from the Center for Ocean-Atmospheric Predictions Center (COAPS) – Shipboard

Automated Meteorological and Oceanographic System (SAMOS). National Oceanographic Data Center, NOAA. Dataset. doi:10.7289/V5QJ7F8R

PRESENTATIONS

- K. Briggs**, and Smith, S. R., 2019: A Picture is Worth a Thousand Words. *UNOLS Research Vessel Technical Enhancement Committee 2019 Annual Meeting*, Fairbanks, AK, 22-24 October 2019.
- Smith, S. R., M. A. Bourassa, **K. Briggs**, and J. Elya, 2019: Contributions to the Climate Record of Research Vessel Underway Data from the FSU's Marine Data Center (MDC). *Fifth JCOMM Workshop on Advances in Marine Climatology (CLIMAR5)*, Hamburg, Germany, 6-8 May 2019.
- Smith, S. R., M. A. Bourassa, **K. Briggs**, J. Elya, and H. McMillan, 2019: Quality Evaluation of Winds in ICOADS. *Marine In-situ Wind Workshop*, Hamburg, Germany, 9 May 2019.
- Smith, S. R., **K. Briggs**, J. Rolph, and J. Elya, 2019: SAMOS Status Report. *N2N Meeting*, Silver Spring, MD, 10 April 2019.
- Smith, S. R., J. J. Rolph, **K. Briggs**, J. Elya, and M. A. Bourassa, 2018: Shipboard Automated Meteorological and Oceanographic System. *Ocean Sciences 2018*, Portland, OR, 12-16 February 2018.
- Smith, S. R., J. J. Rolph, **K. Briggs**, J. Elya, and M. A. Bourassa, 2016: SAMOS – A Decade of High-Quality, Underway Meteorological and Oceanographic Data from Research Vessels. *Ocean Sciences 2016*, New Orleans, LA, 21-26 Feb. 2016.
- Smith, S. R., N. Lopez, M. A. Bourassa, J. Rolph, and **K. Briggs**, 2012: Research Vessel Meteorological and Oceanographic Systems Support Satellite and Model Validation. *Fall American Geophysical Union Meeting*, San Francisco, CA, 3-7 Dec 2012.
- Smith, S. R., M. A. Bourassa, J. Rolph, **K. Briggs**, and D. Jackson, 2012: SAMOS – Supporting marine atmosphere-ocean research. *NOAA Ocean Climate Observation 8th Annual PI Meeting*, Silver Spring, MD, 25-27 June 2012.
- Smith, S. R., M. A. Bourassa, J. Rolph, **K. Briggs**, D. Jackson, 2012: SAMOS – supporting marine atmosphere-ocean research. *Ocean Sciences 2012*, Feb., Salt Lake City, Utah.
- Smith, S. R., M. A. Bourassa, J. Rolph, **K. Briggs**, and D. Jackson, 2011: Observations for climate: Shipboard automated meteorological and oceanographic systems on research vessels. *WCRP Open Science Conference*, Denver, CO, 24-28 October 2011.
- Smith, S.R., J. Rolph, **K. Briggs**, and M. A. Bourassa, 2011: Research Vessel Observations: A modern data record for marine climatology. *Third International Workshop on Advances in the Use of Historical Marine Climate Data (MARCDAT-III)*, Frascati, Italy, 2-6 May 2011.
- Smith, S. R., J. Rolph, **K. Briggs**, M. A. Bourassa, and J. May, 2010: Activities of the Shipboard Automated Meteorological and Oceanographic System Initiative Data Assembly Center. *NOAA Ocean Climate Observation 7th Annual System Review*, Silver Spring, MD, 27-29 October 2010.
- Smith, S. R., J. Rolph, **K. Briggs**, M. A. Bourassa, and J. May, 2010: Activities of the Shipboard Automated Meteorological and Oceanographic System Initiative Data Assembly Center. *NOAA Climate Observations Division 8th Annual Review*, Sept., Silver Spring, Maryland.

Smith, S.R., M. A. Bourassa, J. J. Rolph, and **K. Briggs**, 2010: High-quality surface meteorological and oceanographic observations from research vessels to support flux applications. *Surface Fluxes: Challenges for High Latitudes*, Boulder, CO, 17-19 March 2010.

Smith, S. R., J. Rolph, and **K. Briggs**, 2008: SAMOS status. *UNOLS Research Vessel Technical Enhancement Committee 2008 Annual Meeting*, Tallahassee, FL, 28-30 October 2008.