

Curriculum Vita For Melissa L. Griffin

Current Position:

Assistant State Climatologist of Florida
Center for Ocean-Atmospheric Prediction Studies / The Florida State University
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Tallahassee, FL 32306
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Education:

The Florida State University
Tallahassee, Florida
BS, Meteorology, 2000

Professional Experience:

- Center for Ocean-Atmospheric Prediction Studies- Florida Climate Center, September 2000- present

Responsibilities/Duties:

- Lead educational outreach activities in classroom and informal settings.
- Serve as state coordinator for volunteer precipitation observers in Florida for the Community Collaborative Rain, Hail and Snow Network (CoCoRaHS).
- Develop software and create web-based applications for public distribution of derived data products.
- Construct databases and derived datasets for use by scientists and students.
- Conduct original applied climate research projects and assist with research conducted by students (graduates/undergraduates), the Florida Climate Center, and the Young Scholars Program.
- Research incoming climate data requests from the public and private sectors. Develop derived climate products and technical reports based on the needs of the data user.

Scientific Research Activities:

Florida Climate Center Research Projects

- Near Real-Time Keetch Bryam Drought Index (KBDI) for the Southeast United States (2009-present)
- Heat Index Climatology for the Southeast United States (2008-present)
- Long-term Temperature and Precipitation Trends in Florida (2007-present)
- PRISM ENSO Precipitation/Temperature Composites and Animations (2006-2007; www.agroclimate.org)
- ENSO Wind Climatology for the contiguous US (2005-2007; <http://gis.coaps.fsu.edu/httpdocs/windrose.php>)
- Coastal Climate (2005-2007 www.coastalclimate.org)
- KBDI Forecasting (2002-present; www.agroclimate.org)
- ENSO Freeze Analysis for Southeast US (2002-present; www.agroclimate.org)
- Southeast Precipitation Trends (2002)

Academic Research Activities:

Graduate Research

- 'Impacts of El Nino Southern Oscillation on United States Tornado Activity': Precious Lewis (COAPS Graduate Student, 2008-2009)

- ‘Characterizing Multi-Decadal Temperature Variability in the SE United States’: Marcus Williams (COAPS Graduate Student, 2008-2009)
- ‘Developing a Unified Superset in Quantifying Ambiguities among Tropical Cyclone Best Track Data for the Western North Pacific.’ Michael Lowry (COAPS Graduate Student, 2007-2008)
- ‘Trends in Maximum and Minimum Temperature Extremes throughout Select Regions of the U.S.’: Rebecca Smith (COAPS Graduate Student, 2006-2007)
- ‘Wintertime ENSO Variability in Wind Direction Across the Southeast United States’: Joanne Culin (COAPS Graduate Student, 2005-2006)
- ‘Regional Effects of ENSO on U.S. Hurricane Landfalls’: Carissa Tartaglione (COAPS Graduate Student, 2001-2002)

Undergraduate Research/Young Scholars

- ‘Improved Areal Precipitation Estimates for Tropical Storm Fay Due to Community Collaborative Rain, Hail and Snow Network Observations.’ : Leigh Anne Eaton (COAPS Undergraduate, 2008-2009)
- ‘Understanding the Importance of Meta-Data’: Ashley Daniels (High School Intern, 2008-2009)
- ‘Impact of Rainfall Variability on Peanut Crop Yields During Critical Growth Periods’: Anne Chen and Caroline Kreaflle (Young Scholars, 2007)
- ‘Correlations between KBDI and Burn Statistics for Florida’: Austin Todd (COAPS Undergraduate, 2006-2007)
- ‘Interannual Variability of Lightning Strikes in the Southeast’: Stephen Lue (Young Scholar, 2006)
- ‘Effect of El Nino-Southern Oscillation on Sea-Level Anomalies Along the Gulf of Mexico Coast’: Andrew Kennedy (COAPS Undergraduate, 2005-2006)
- ‘Interannual to Inter-decadal surface air temperature variability of Florida’: April Raulerson (COAPS Undergraduate, 2004-2005)
- ‘Spatial and Temporal Variabilities in Summertime Heat Index for the Southeast US’: Amanda Barth (COAPS Undergraduate, 2003-2004)
- ‘Spatial and Temporal Variabilities in Precipitation Runs in the Southeast US’: Robert Banks (COAPS Undergraduate, 2003-2004)
- ‘Summertime Precipitation Variability with ENSO along the Colorado Front Range’: Young Scholars Program, 2002
- ‘ENSO Influence on Intensity and Frequency of Lake Effect Snow Events’: Jessica Najuch (COAPS Undergraduate, 2002)

Publications:

- Extreme Temperatures. (2007-2010) Prepared for the Red-Cross/Florida Emergency Management Hazardous Weather Awareness Week Brochure.
- Fraisse C.W., W.R. Lusher, M. L. Griffin, A.A. Texeira (2009). 4-H Weather Workshop. University of Florida IFAS Extension. Circular EDIS AE447
- Smith, R. A., M. Griffin, J. J. O'Brien (2009). Trends in Maximum and Minimum Temperature Deciles in Select Regions of the United States. *Journal of Climate*, (in review).
- Kennedy, A. J., M. L. Griffin, S. L. Morey, S. R. Smith, and J. J. O'Brien (2007), Effects of El Nino; Southern Oscillation on sea level anomalies along the Gulf of Mexico coast, *J. Geophys. Res.*, 112, C05047, doi:10.1029/2006JC003904.
- Winsberg, Morton D., J.J. O'Brien, D. Zierden, and M. Griffin (2003), *Florida Weather*, pp 1-192, University Press of Florida.

- O'Brien, J.J., D. F. Zierden, and M. Griffin (2002), Long-term Forecasting of Wildfire season severity in Florida, COAPS Technical Report 02-2, 42 pp., Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, FL, 32306-2840. USA.
- Griffin M.L., and S.R. Smith, 2001: Polarstern Data Quality Control Report: May 1993 – November 1996. RVSMDC Report 01-01, Center for Ocean-Atmospheric Prediction Studies, The Florida State University, Tallahassee, FL 32306-2840.

Conference Presentations:

- McGhee, C., Griffin, M., Eaton, L., 2009: Improved Areal Precipitation Estimates for Tropical Storm Fay Due to Community Collaborative Rain, Hail and Snow Network Observations. AMS/NWA Inland Impacts of Tropical Cyclones, June 2009
- Griffin, M., 2005: Climate Services: Detailed Account to Climate Services given at the Florida Climate Center. NWS Southern Region Headquarters, July 2005
- Griffin, M., 2005: Climate Assessment Tool for the Coastal Community of the Southeast US. 15th Applied Climate Conference, June 2005
- Griffin, M., 2005: Development into a Climate Assessment. Tool for the Coastal Community of the Southeast US. CPASW conference, March 2005
- Griffin, M., 2004: The Florida Climate Center's Approach to Climate Services. CPASW conference, March 2004.
- Griffin, M., 2002: Florida Freezes. Broward County Extension Service Meeting, August 2002.
- Griffin, M., 2002: What Is El Nino? Broward County Extension Service Meeting, August 2002.

Outreach Seminars:

- February 2010: How Much Rain Can You Squeeze From A Cloud? Introduction to Weather Observations at Florida State University's High Magnetic Field Lab Open House (Tallahassee, FL)
- January 2010: Community Collaborative Rain Hail Snow (CoCoRaHS) Network Training at National Weather Service WeatherFest (Tallahassee, FL)
- January 2010: Climate and Weather Workshop at the Florida 4-H Youth Development Institute (Gainesville, FL)
- January 2010: Community Collaborative Rain Hail Snow (CoCoRaHS) Network Seminar at the American Meteorological Society Conference (Atlanta, GA)
- December 2009: Community Collaborative Rain Hail Snow (CoCoRaHS) Network Training Seminar at the Tampa Bay Ham Radio Operator Festival (Sarasota, FL)
- October 2009: Climate and Weather Workshop at Earth Science Week at the Florida Geological Survey Open House (Tallahassee, FL)
- August 2009: Climate and Weather Workshop at Florida State University's Alumni Village Recreational Camp (Tallahassee, FL)
- July 2009: Climate and Weather Workshop at the Orange Avenue Community Center (Tallahassee, FL)
- June 2009: Climate and Weather Workshop at the Florida 4-H Youth Field Day (Ona, FL)
- June 2009: Climate and Weather Workshop at the Literacy Volunteers of Leon County Summer Camp (Tallahassee, FL)
- May 2009: Community Collaborative Rain Hail Snow (CoCoRaHS) Network Training Seminar at Leon County's KidsFest (Tallahassee, FL)
- April 2009: From Sea To Sky: Where Oceanography Meets Meteorology – Florida State University Marine Lab Open House (Tallahassee, FL)

- February 2009: Climate and Weather Workshop at Bellevue Middle School (Tallahassee, FL)
- January 2009: Community Collaborative Rain Hail Snow (CoCoRaHS) Network Training at National Weather Service WeatherFest (Tallahassee, FL)
- July 2008: Climate and Weather Workshop at the Florida 4-H Congress (University of Florida, Gainesville)
- January 2008: Community Collaborative Rain Hail Snow (CoCoRaHS) Network Seminar at the American Meteorological Society Conference (New Orleans, LA)
- October 2007: Community Collaborative Rain Hail Snow (CoCoRaHS) Network Training Seminar (Northwest Florida University)

Professional Development Workshops:

- June 2004: NOAA Data User's Forum and Workshop
- May 2001: User-Services Training Seminar, National Climatic Data Center

Professional Organizations:

- CoCoRaHS State Coordinator of Florida
- Associate Member of the American Association of State Climatologists
- NOAA's Climate Database Modernization Program Florida Contact Person
- Member of American Meteorological Society Applied Climate Committee
- Chair of the CoCoRaHS Outreach and Education Committee

Awards

- Nominated for the Max Carraway Award; FSU 2008
- Recipient of the Exemplary Service Award for Scientific & Research Services; FSU 2008