

The Meteorology program encourages research leading to senior theses. We provide examples of past theses here to give a flavor of the undergraduate research topics. A typical course is for students to first enroll in a one-credit 'Reading Topics' class followed by enrollment in a 'Special Topics' class for credits commensurate with their involvement. Senior theses are the equivalent of six credits.

#### Senior Theses:

Kristin Rasmussen, 2005: RICO Aerosol, Sonde, and Flux Measurements aboard the R/V Seward Johnson for 1/19/05 to 1/24/05. Advisor: Dr. Bruce Albrecht

Angie Pendergrass, 2006: Climate Feedbacks in the Surface Radiation Budget. Advisor: Dr. Brian Soden.

Peter M. Finocchio, 2009. "Evaluating ensemble forecasts of Tropical Cyclones". Advisor: Dr. Sharan Majumdar

Michael K. Hernandez, 2007. "Hurricane Katrina Reanalysis over South Florida". 2007 Advisor: Dr. Sharan Majumdar

Corey A. Walton, 2009. "An analysis of tropical cyclone intensity estimates of the Advanced Microwave Sounding Unit (AMSU), 2005-2008". Advisor: Dr. Chris Landsea (NHC)/Sharan Majumdar

Benjamin Cathey, 2011. "God Will Judge" (high school football in FL's cane country). Advisor: Joe Treaster (communications school).

#### Peer-reviewed papers with student co-authorship:

Majumdar, S. J. and P. M. Finocchio, 2010: On the ability of global Ensemble Prediction Systems to predict tropical cyclone track probabilities. *Wea. Forecasting*, 25, 659-680.

Nolan, David S., Scott W. Powell, Chidong Zhang, and Brian E. Mapes, 2010: Idealized simulations of the ITCZ and its multi-level flows. *J. Atmos. Sci.*, 67, 4028-4053. (Scott Powell, 2008: Advisor: Dr. David Nolan. )