



THE FLORIDA STATE UNIVERSITY
Center for Ocean-Atmospheric Prediction Studies
News

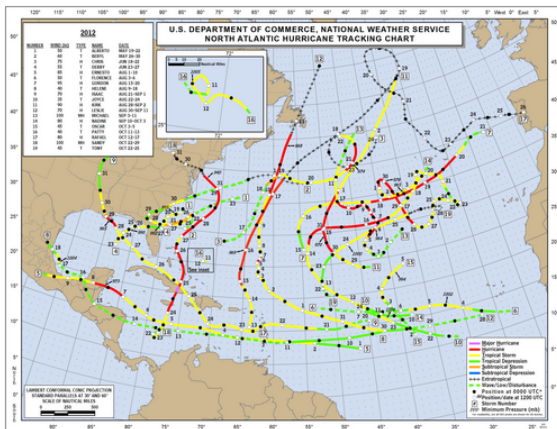


Summer 2013



Donate

Left: Meteorologists at the National Hurricane Center (Miami, 1970).
Credit: State Archives of Florida, Florida Memory.



2012 Atlantic hurricane season tracks

2013 FSU-COAPS Atlantic Hurricane Season Forecast Predicts Above Average Activity

The 5th annual forecast, led by [Dr. Tim LaRow](#) calls for a 70 percent probability of 12 to 17 named storms, including 5 to 10 hurricanes. The mean forecast is 15 named storms, 8 hurricanes, and an average accumulated cyclone energy (a measure of the strength and duration of storms accumulated during the season) of 135. The forecast mean numbers are identical to the observed 1995-2010 average named storms and hurricanes and reflect the ongoing period of heightened tropical activity in the North Atlantic. [More...](#)



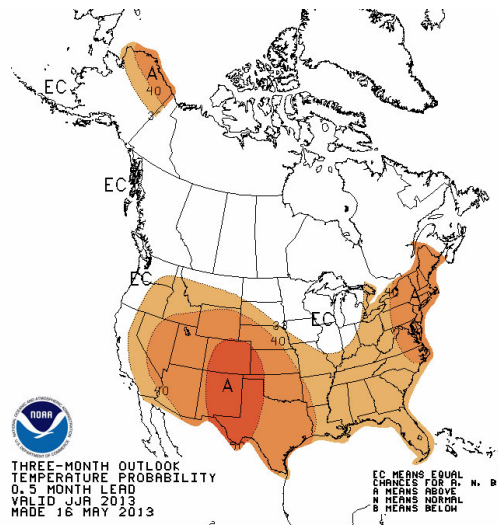
Dr. O'Brien: A Legacy in the Numbers

COAPS founder and Professor Emeritus [Dr. Jim O'Brien](#) marks a career in mathematical ocean modeling and prolific mentorship in a recent profile [article](#) in *Across the Spectrum*, the magazine of the FSU College of Arts and Sciences. In the above photo, Dr. O'Brien shares a handshake with Vice President Al Gore during a 1997 meeting of the United States National Climate Assessment for the Southeast in Nashville, Tenn. Dr. O'Brien was chair of the southeast regional climate assessment group. [More...](#)



New Gulf Coast Observing System Website

COAPS launched a new website for the atmospheric and oceanic instrumentation at the N7 Air Force tower in the northern Gulf of Mexico. On the site, you'll find weather and ocean data dials that update every 10-15 minutes (depending on parameter); under the "Data" tab are dynamic time series plots of all observations from the past 24 hours. [Visit website...](#)



Warmer Than Normal Summer Likely for Florida

The current 3-month seasonal forecast (June-July-August) from NOAA's Climate Prediction Center indicates enhanced chances for above normal temperatures in Florida. Neutral El Niño-Southern Oscillation conditions are expected to continue through the summer. [More...](#)

Honors



Nathan Crock and Olmo Zavala-Romero Receive Honorable Mention in International Space Apps Challenge

The [OpenTiles](#) GIS project these COAPS students worked on was recognized in the "best use of data" category.



[Melissa Griffin](#) Receives 10-Year Service Award

The assistant state climatologist was recognized at the FSU employee awards ceremony in April.



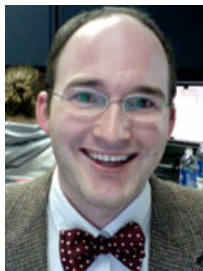
[Dr. Mark Bourassa](#) Selected to Co-Chair [Ocean Observations Panel for Climate](#)

This scientific expert advisory group is charged with making recommendations for a sustained global ocean observing system for climate.



[Lauren Zuromski](#) Selected for [NOAA Hollings Scholarship](#) and Research Experiences for Undergraduates (REU) Program

Lauren is spending this summer at Washington State University for her REU and will spend next



[Aaron Paget](#) Completes PhD in Geophysical Fluid Dynamics

The title of his dissertation is "Important contributing factors for estimating the active and total whitecap coverage globally using satellite-derived parameters." At COAPS, Aaron



[Arsalan Ahmed](#) Completes MS in Computer Science

The title of his masters project is "*Visualization of geo spatial data in real time.*" At COAPS, Arsalan worked under the direction of Dr. Eric Chassignet.

summer as an intern at a NOAA facility as part of her scholarship worked under the guidance of Dr. Mark Bourassa.

Photos/Video



Dr. Hannah Hiester talks about the [Deep-C Consortium](#) at [Oceans Day](#) at the Florida Capitol (4/4/13).



Asst. state climatologist Melissa Griffin shares information about agriculture and climate at [FSU Day](#) at the Florida Capitol (4/2/13).



Students Olmo Zavala-Romero and Arsalan Ahmed with their [Gulf of Mexico visualization project](#) at FSU's [DIGITECH](#) showcase.



COAPS personnel at an International Ocean Vector Wind Science Team meeting in Hawaii.



Melissa Griffin and Rachel Weihs put on a meteorology magic show.



Deep-C coordinator Tracy Ippolito co-presents an award to a high school science class for a ["Name That Buoy"](#) contest.



Outreach educator Amelia Vaughan showing deep sea specimens at a school science night.



Director Eric Chassignet giving staff a ride in his Amphicar at the annual COAPS picnic.



Web developer Kris Suchdeve put together this [video](#) of the launch of the Deep-C Consortium's SailBuoy in the Gulf of Mexico.



Dr. Jim O'Brien relates physical factors to regional climates in this [video](#) for teachers by CPALMS.



Melissa Griffin demystifies severe weather in another [video](#) for teachers by CPALMS.



State climatologist David Zierden makes a cloud in a bottle at the Railroad Square Science Saturday festival.

Publications

COAPS authors are in bold.

Ali, M. M., G. S. Bhat, D. G. Long, S. Bharadwaj, **M. A. Bourassa** (2013), [Estimating wind stress at the ocean surface from scatterometer observations](#), IEEE Geoscience and Remote Sensing Letters, doi:10.1109/LGRS.2012.2231937.

Arruda, W. Z, E. J. D. Campos, **V. Zharkov**, R. G. Soutelino, and I. A. Da Silveira (2013), [Events of equatorward translation of the Vitoria Eddy](#), *Cont. Shelf Res.*, doi:10.1016/j.csr.2013.05.004.

Bastola, S. (2013), [Hydrologic impacts of future climate change on Southeast US watersheds](#), *Regional Environmental Change*, doi:10.1007/s10113-013-0454-2.

Bourassa, M., S. Gille, C. Bitz, D. Carlson, I. Cerovecki, C. A. Clayson, M. Cronin, W. Drennan, C. Fairall, R. Hoffman, G. Magnusdottir, R. Pinker, I. Renfrew, M. Serreze, K. Speer, L. Talley, G. Wick

(2013), [High-latitude ocean and sea ice surface fluxes: requirements and challenges for climate research](#), *Bulletin of the American Meteorological Society*, doi:10.1175/BAMS-D-11-00244.1.

Cammarano, D., **L. Stefanova**, B. V. Ortiz, M. Ramirez-Rodrigues, S. Asseng, **V. Misra**, G. Wilkerson, B. Basso, J. W. Jones, K. J. Boote, **S. DiNapoli** (2013), [Evaluating the fidelity of downscaled climate data on simulated wheat and maize production in the southeastern US](#), *Regional Environmental Change*, doi:10.1007/s10113-013-0410-1.

Frumkin, A., and V. Misra (2013), [Predictability of dry season reforecasts over the tropical and the sub-tropical South American region](#), *International Journal of Climatology*, 33(5), 1237-1247, doi:10.1002/joc.3508.

LaRow, T. E. (2013), [The impact of SST bias correction on North Atlantic hurricane retrospective forecasts](#), *Monthly Weather Review*, 141(2), 490-498, doi:10.1175/MWR-D-12-00152.1.

Michael, J.-P., V. Misra, and E. P. Chassignet (2013), [The El Nino and Southern Oscillation in the historical centennial integrations of the new generation of climate model](#), *Regional Environmental Change*, doi:10.1007/s10113-013-0452-4.

Misra, V., and S. M. DiNapoli (2013), [Understanding the wet season variations over Florida](#), *Climate Dynamics*, 40(5-6), 1361-1372, doi:10.1007/s00382-012-1382-4.

Misra, V., H. Li, Z. Wu, and S. Dinapoli (2013), [Global Seasonal Climate Predictability in a Two Tiered Forecast System. Part I: Boreal Summer and Fall Seasons](#), *Climate Dynamics*, doi:10.1007/s00382-013-1812-y.

Zheng, Y., M. A. Bourassa, and P. J. Hughes (2013), [Influences of sea surface temperature gradients and surface roughness changes on the motion of surface oil: a simple idealized study](#), *J. Appl. Meteor. Clim.*, doi:10.1175/JAMC-D-12-0211.1.

About COAPS

The Florida State University [Center for Ocean-Atmospheric Prediction Studies \(COAPS\)](#) is a center of excellence performing interdisciplinary research in ocean-atmosphere-land-ice interactions to increase our understanding of the physical, social, and economic consequences of climate variability. COAPS scientists and students come from a wide range of disciplines, including meteorology, oceanography, statistics, and the computer and information sciences.

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