



THE FLORIDA STATE UNIVERSITY



Center for
Ocean-Atmospheric
Prediction Studies



NEWSLETTER

SPRING 2011

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News Highlights



\$1,000,000+ NASA Grant for Satellite Studies of Ocean Winds

Associate Professor [Mark Bourassa](#) is receiving a 4-year, \$1 million+ grant from NASA to continue leading NASA's Ocean Vector Wind Science Team. COAPS scientists [Steve Morey](#) and [Dmitry Dukhovskoy](#) are co-investigators. The award will also support research at COAPS on winds and oceanography in the Gulf of Mexico and high latitudes, and the development of new techniques for improving satellite derived fields for ocean forcing.



\$789,000 USDA-NIFA Grant to Improve Crop Yield Projections in the Southeast USA

COAPS scientists [DW Shin](#), [Steve Cocke](#), and [James O'Brien](#) are the lead investigators on a new project to optimize crop yield projections using advanced climate modeling techniques. The scientists are receiving a 3-year, \$789,000 award through the US Department of Agriculture's National Institute of Food and Agriculture interagency climate change program to integrate state-of-the-art climate projections, crop modeling systems, and economic evaluations to develop a tool for studying agricultural production in the Southeast USA. This integrated framework will enable the scientists to assess the potential impact of future climate variability and trends on the production of economically-valuable crops in the region. Additional collaborators include scientists from the University of Florida and the University of Miami who, together with the COAPS researchers, are part of the Southeast Climate Consortium.



Assistant Professor Vasu Misra Selected for Ralph E. Powe Junior Faculty Enhancement Award

[Vasu Misra](#), an assistant meteorology professor at COAPS, has been selected for a [Ralph E. Powe Junior Faculty Enhancement Award](#) from the Oak Ridge Associate Universities (ORAU). The award provides \$10,000 for research by junior faculty at ORAU member institutions, and is intended to enrich the research and professional growth of young faculty and result in new funding opportunities.



Call for Submissions for New WFSU Environmental Minute Radio Program

COAPS Professor [Vasu Misra](#) is leading the development of a new "Environmental Minute" radio program to be aired on WFSU (88.9FM). All FSU faculty members who work in environmental studies are encouraged to submit a Q&A; to this program. To request a submission form, please email envmin@coaps.fsu.edu.

February Florida Climate Summary

The [Florida Climate Center](#) (housed at COAPS) has released its [February 2011 Climate Summary for Florida](#). The report shows that average temperatures were above normal while rainfall totals were generally below normal during February. To receive the monthly climate summaries by email, [join the Florida Climate Center mailing list](#).

COAPS In the Press

3/2/11: [Brush fire danger seen in advance](#) (Florida Today; with COAPS scientist David Zierden)

2/15/11: [Florida State welcomes warmer weather](#) (FSU.com Radio; with COAPS scientist David Zierden)

2/15/11: [La Niña may bring warm late winter to the Southeast](#) (FSU.com; with COAPS scientists James O'Brien and David Zierden)

1/27/11: [Florida Climate Institute aims to educate](#) (WCTV; with COAPS scientist Vasu Misra)

1/27/11: [Wind and ocean currents could be renewable resources](#) (WCTV; with COAPS scientists Mark Powell and Alexandra Bozec)

Upcoming Events

Tue., Mar. 22, 3:30-4:30p - Florida Climate Institute Seminar

Location: View video broadcast from UF at COAPS, Rm 220

Speaker: [Robert Socolow](#), Princeton University Mechanical & Aerospace Engineering - *"How Would We Act If We Took Climate Change Seriously?"*



Thu., Mar. 24, 1-2p - Florida Climate Institute Seminar

Location: COAPS, Rm 220

Speaker 1: [Henry Fuelberg](#), FSU EOAS - *"Transport of Asian Biomass Burning Emissions to the Arctic- Climatological Considerations"*

Speaker 2: [Bill Dewar](#), FSU EOAS - Title TBA



Thu., Mar. 31, 3-4p - Florida Climate Institute Seminar

Location: UF webcast link will be posted [here](#)

Speaker: [Chet Koblinsky](#), NOAA Climate Services - *"Development of Climate Services in NOAA"*



Mon., Apr. 4, 11a-12p - COAPS Seminar

Location: COAPS, Rm 220

Speaker 1: J.P. Michael - *"Intermediate models for ENSO"*

Speaker 2: Geoff Montee - Title TBA

Speaker 3: Panagiotis Velissariou - Title TBA



Wed., Apr. 6, 10a-2p - FSU Earth Day Celebration

Location: FSU Campus - Oglesby Union Green

Tue., Apr. 12, 10a-2p - FSU Day at the Capitol

Location: Capitol Complex, Tallahassee

Thu., Apr. 14, 1-2p - Florida Climate Institute Seminar

Location: COAPS, Rm 220

Speaker: [Ben Kirtman](#), University of Miami Rosenstiel School of Marine and Atmospheric Science - *"Impact of Ocean Model Resolution on CCSM Climate Simulations"*



Sat., Apr. 16, 10a-3p - FSU Coastal & Marine Laboratory Open House

Location: 3618 Coastal Highway 98, St. Teresa, FL

Mon., May 2, 11a-12p - COAPS Seminar

Location: COAPS, Rm 220

Speaker 1: Erik Fraza - Title TBA

Speaker 2: Christopher Selman - Title TBA

Speaker 3: [Jianhua Lu](#) - *"Manabe and Wetherald*

(1967): Thermal equilibrium of the atmosphere with a given distribution of relative humidity"



Tue.-Fri., May 24-27 - Climate Information for Managing Risks Symposium

Location: Orlando, FL

Recent Publications

COAPS authors are in bold.

Chan, S. C., and **V. Misra**, 2011: [Dynamic downscaling of the North American Monsoon with the NCEP-Scripps Regional Spectral Model from the NCEP CFS global model](#). *J. Climate*, doi:10.1175/2010JCLI3593.1. (in press).

Chan, S. C., **V. Misra**, and H. Smith, 2011: [A modeling study of the interaction between the Atlantic Warm Pool, the tropical Atlantic easterlies, and the Lesser Antilles](#). *J. Geophys. Res.*, doi:10.1029/2010JD015260. (in press).

Chassignet, E. P., 2011: [Isopycnic and hybrid ocean modeling in the context of GODAE](#). *Observing, Assimilating, and Forecasting the Ocean*, A. Schiller and G. Brassington, Eds., Springer, (in press).

Guimond, S. R., **M. A. Bourassa**, and P. D. Reasor, 2011: [A latent heat retrieval and its effects on the intensity and structure change of Hurricane Guillermo \(1997\). Part I: the algorithm and observations](#). *Journal of Atmospheric Sciences*, doi:10.1175/2011JAS3700.1. (in press).

Hurlburt, H.E., E.J. Metzger, J.G. Richman, **E.P. Chassignet**, Y. Drillet, M.W. Hecht, O. Le Galloudec, J.F. Shriver, X. Xu, and **L. Zamudio**, 2011: [Dynamical evaluation of ocean models using the Gulf Stream as an example](#). *Observing, Assimilating, and Forecasting the Ocean*, A. Schiller and G. Brassington, Eds., Springer, (in press).

Katsaros, K. B., A. Bentamy, **M. Bourassa**, and N. Ebuchi, 2011: Climate Data Issues from an Oceanographic Remote Sensing Perspective. [Remote Sensing of the Changing Oceans](#), Tang, DanLing (Ed.), Springer-Verlag, (in press).

Srinivasan, A., **E.P. Chassignet**, L. Bertino, J.M. Brankart, P. Brasseur, T.M. Chin, F. Counillon, J.A. Cummings, A.J. Mariano, O.M. Smedstad, and W.C. Thacker, 2011: [A comparison of sequential assimilation schemes for ocean prediction with the HYbrid Coordinate Ocean Model \(HYCOM\). Part I: Twin experiments](#). *Ocean Modelling*, (in press).

Stefanova, L., **V. Misra**, **J. J. O'Brien**, **E. P. Chassignet**, and S. Hameed, 2011: [Hindcast skill and predictability of APCC models for precipitation and surface temperature anomalies over the Southeast United States](#). *Climate Dynamics*, doi:10.1007/s00382-010-0988-7.

Sura, P., 2011: [A general perspective of extreme events in weather and climate](#). *Atmospheric Research*, doi:10.1016/j.atmosres.2011.01.012. (in press).

Employment Opportunities

COAPS is inviting applications for the following positions. For more information, please visit <http://coaps.fsu.edu/jobs.shtml>.

- Postdoctoral researcher in coupled GCM studies
- Postdoctoral researcher in hydrology
- Postdoctoral researcher in ocean modeling/computational fluid dynamics
- Postdoctoral research in global ocean model evaluation
- OPS Webmaster/Dataset Administrator

Photos



Left: COAPS MS student Lauren Moeller demonstrates how hail is measured and the effects of air pressure on cloud formation at the annual [National High Magnetic Field Laboratory Open House](#) (2/26/2011).



Right: COAPS BS student Daniel Gilford passes out [goodie bags about satellite observations of Earth](#) at the [Jacksonville WeatherFest](#) (2/26/2011).



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, physical oceanography, statistics, and the computer and information sciences.

Director: [Eric Chassignet](#)

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