

CURRICULUM VITAE

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EDUCATION

Ph.D. in Meteorology	2001	The Florida State University, Tallahassee, FL
M.S. in Meteorology	1996	The Florida State University, Tallahassee, FL
B.S. in Physics	1993	Sofia University, Sofia, Bulgaria

EMPLOYMENT

2008-present Assistant Research Scientist	COAPS, FSU
2001-2008 Research Associate	Dept. of Meteorology, FSU
2001-2002 Scientific Consultant	Weather Predict Inc, Raleigh, NC
1993-2001 Graduate Research Assistant	Dept. of Meteorology, FSU

CURRENT RESEARCH INTERESTS

- Climate variability – assessment, modeling, downscaling and regional applications;
- Extreme events in changing climate;
- Seasonal and climate forecast predictability sources and windows of opportunity;
- Approaches to probabilistic seasonal and climate forecasting;
- Applications of seasonal and climate forecasts and projections to modeling of terrestrial and marine ecosystems and agricultural crop modeling.

WORKING PAPERS

- [1] With P. Sura, V. Misra, S.C. Chan and J.J. O'Brien: "Analysis of extremes in daily temperatures and precipitation from downscaled reanalyses and observations". In preparation.
- [2] With T. LaRow, S. C. Chan, and V. Misra: "Analysis of the characteristics of landfalling tropical cyclones in a regional reanalysis". In preparation.
- [3] With T. LaRow: "Low-frequency SST variability in CMIP5 historical integrations"
- [4] With C. Langtimm: "Likelihood of future extreme cold events and manatee mortality"
- [5] **Stefanova, L.**, P. Sura, M. Griffin, S. C. Chan and V. Misra, 2011: Non-Gaussian winter daily minimum and maximum temperatures in a regional climate model: downscaling of reanalysis, historical simulations and future projections for the Southeast United States
- [6] **Stefanova, L.**, P. Sura and M. Griffin, 2011: Quantifying the non-Gaussianity of observed wintertime daily maximum and minimum temperatures in the southeast United States.

PUBLICATIONS

- [1] **Stefanova, L.**, V. Misra, S. C. Chan, M. Griffin, J. J. O'Brien, and T. J. Smith III, 2011: A proxy for high-resolution regional reanalysis for the Southeast United States. *Clim Dyn*, DOI:

10.1007/s00382-011-1230-y

- [2] **Stefanova, L.**, T. Krishnamurti, 2011: Kinetic energy exchanges between the time scales of ENSO and the Pacific Decadal Oscillation. *Meteorol and Atm Phys* , **114**, 95-105.
- [3] Misra, V., L. Moeller, **L. Stefanova**, S. Chan, J. J. O'Brien, T. J. Smith III, and N. Plant, 2011: The influence of Atlantic warm pool on Florida Sea Breeze. *J. Geophys Res (Atm)*, **116**, D00Q06, doi:10.1029/2010JD015367
- [4] **Stefanova, L.**, V. Misra, J. J. O'Brien, E. P. Chassignet and S. Hameed, 2011: Hindcast skill and predictability for precipitation and two-meter air temperature anomalies in global circulation models over the Southeast United States. *Clim Dyn*, **36**, doi: 10.1007/s00382-01009887
- [5] Lim, YK, **L. Stefanova**, S. C. Chan, S. D. Schubert, and J. J. O'Brien, 2010: High-resolution subtropical summer precipitation derived from dynamical downscaling of the NCEP/DOW reanalysis: how much small-scale information is added by a regional model? *Clim Dyn*, **35**, 331-340, doi: 10.1007/s00382-010-0891-2
- [6] LaRow, T., **L. Stefanova**, D.-W. Shin, and S. Cocke, 2010: Seasonal Atlantic tropical cyclone hindcasting/forecasting using two sea surface temperature datasets. *Geoph Res Lett*, **37**, L02804, doi:10.1029/2009GL041459
- [7] Thompson, A., **L. Stefanova**, and T. N. Krishnamurti, 2008: Baroclinic splitting of jets. *Meteorol and Atm Phys*, **100**, 257-274.
- [8] Ross R. S., A. Chakraborty, A. Chen, **L. Stefanova**, S. Sirdas, T. N. Krishnamurti, 2007: Improved seasonal climate forecasts for the Caribbean region using the Florida State University Synthetic Superensemble. *Meteorol and Atmos Phys*, **98**, 137-174.
- [9] Krishnamurti, T. N., **L. Stefanova**, L. Watson, and S. Pattnaik, 2007: Addressing hurricane intensity through angular momentum and scale energetics approaches. *Pure and Applied Geophysics*, **164**, 1429-1441.
- [10] Krishnamurti, T.N., T.S.V. Vijaya Kumar, A.K. Mitra, W.T. Yun, **L. Stefanova**, Brian P. Mackey, Adam J. Oshay And William K. Dewar, 2005: Further Improvements in Superensemble Forecasts for Weather and Climate, In: Book on Predictability, Eds. Tim Palmer and R. Hagedorn, Cambridge University Press, London.
- [11] Krishnamurti, T.N., S. Pattnaik, **L. Stefanova**, T.S.V.V. Kumar, B.P. Mackey, A. J. O'Shay, and R. J. Pasch, 2005: On the hurricane intensity issue. *Mon Wea Rev*, **13**, 1886-1912.
- [12] Yun, W.T., **L. Stefanova**, A.K. Mitra, T.S.V.V. Kumar, W. Dewar, and T.N. Krishnamurti, 2005: Multi-model synthetic superensemble algorithm for seasonal climate prediction using DEMETER forecasts. *Tellus*, **57A**, 280-289.
- [13] Mitra, A. K. , **L. Stefanova**, T.S.V.V. Kumar and T.N. Krishnamurti, 2005 Seasonal prediction for the Indian Monsoon region with FSU Ocean-Atmosphere coupled model: Model mean and 2002 anomalous drought. *Pure and Appl Geoph*, **162**, 1431-1454.
- [14] Yun, W. T., **L. Stefanova**, and T. N. Krishnamurti, 2003: Improvement of the multimodel superensemble technique for seasonal forecasts. *J Climate*, **16**, 3834-3840.
- [15] Krishnamurti, T.N., D.R. Chakraborty, N. Cubukcu, **L. Stefanova**, and T.S.V.V. Kumar, 2003:

A mechanism of the Madden-Julian Oscillation based on interactions in the frequency domain. *Q J Roy Meteor Soc*, **129**: 2559-2590.

- [16] **Stefanova, L.** and T.N. Krishnamurti, 2002: Interpretation of seasonal climate forecast using Brier skill score, the Florida State University superensemble and the AMIP-1 dataset. *J Climate*, **15**, 537-544.
- [17] Krishnamurti, T.N, **L. Stefanova**, A. Chakraborty, T.S.V.V. Kumar, S. Cocke, D. Bachiochi and B. Mackey, 2002: Seasonal forecasts of precipitation anomalies for North American and Asian Monsoons. *J Meteorol Soc Jpn*, **80** (6): 1415-1426.