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Experience

Associate Research Scientist 8/06 – present
COAPS, The Florida State University, Tallahassee, FL

Assistant Research Scientist 9/03 – 8/06
COAPS, The Florida State University, Tallahassee, FL

Research Associate 2/97 -8/03
COAPS and the Department of Meteorology, The Florida State University, Tallahassee, FL

Navy Research Fellow 12/92 - 12/96
Department of Meteorology, The Florida State University, Tallahassee, FL

Peer-Review Publications

LaRow, T. E., 2011: Impact of Two Different Sea Surface Temperature Climatologies on North Atlantic Hurricane Retrospective. *J Climate*. (submitted).

LaRow, T. E., L. Stefanova, S. C. Chan, and V. Misra, 2011: Analysis of the Characteristics of Landfalling Tropical Cyclones in a Regional Reanalysis. (In preparation).

LaRow, T. E., L. Stefanova, D. W. Shin and S. Cocke, 2010: Seasonal Atlantic Tropical Cyclone Hindcasting/Forecasting using Two Sea Surface Temperature Datasets. *Geophys. Res. Lett.*, **37**, L02804, doi:10.1029/2009GL041459.

Shin, D. W., G. Baiggoria, Y.-K. Lim, S. Cocke, **T. E. LaRow**, J. J. O'Brien, and J. W. Jones, 2010: Assessing maize and peanut yield simulations with various climate data in the southeast US. *J. Appl., Meteor. Climatol.*, **49**, 592-603.

Lim, Y.-K., S. Cocke, D. W. Shin, J. T. Schoof, **T. E. LaRow**, and J. J. O'Brien, 2009: Downscaling large-scale NCEP CFS to resolve the fine-scale seasonal precipitation and extremes for the crop growing seasons over the southeastern

- United States. *Clim. Dyn.*, doi:10.1007/s00382-009-0671-z.
- Schoof, J. T., D. W. Shin, S. Cocke, **T. E. LaRow**, Y.-K. Lim, and J. J. O'Brien, 2009: Dynamically and statistically downscaled seasonal temperature and precipitation hindcast ensembles for the southeastern USA. *Int. J. Climatol.* **29**, 243-257, doi:10.1002/joc. 1717.
- LaRow, T. E.**, Y.-K. Lim, D. W. Shin, E. Chassignet and S. Cocke, 2008: Atlantic Basin Seasonal Hurricane Simulations. *J. Climate*, **21**, 3191–3206.
- Shin, D. W., S. Cocke, and **T. E. LaRow**, 2007: Diurnal cycle of precipitation in a climate model. *J. Geophys. Res.*, doi:10.1029/2006JD008333.
- Cocke, S., **T. E. LaRow** and D. W. Shin, 2007: Seasonal rainfall predictions over the southeast United States using the Florida State University nested regional spectral model. *J. Geophys. Res.*, **112**, D04106, doi:10.1029/2006JD007535.
- Lim, Y.-K., D. W. Shin, S. Cocke, **T. LaRow**, J. Schoof, J. J. O'Brien, and E. Chassignet, 2007: Dynamically and statistically downscaled seasonal simulations of maximum surface air temperature over the southeast United States. *J. Geophys. Res. - Atmosphere*. **112**, D24102, doi:10.1029/2007JD008764.
- Shin, D. W., J. G. Bellow, **T. E. LaRow**, S. Cocke, and J. J. O'Brien, 2006: The role of an advanced land model in seasonal dynamical downscaling for crop model application. *J. Appl. Meteor. & Climatology*, **45**, 686-701.
- Boisserie, M., D. W. Shin, **T. E. LaRow**, and S. Cocke, 2006: Evaluation of soil moisture in the Florida State University climate model-National Center for Atmospheric Research community land model (FSU-CLM) using two reanalyses (R2 and ERA40) and in situ observations. *J. Geophys. Res.*, **111**, D08103, doi:10.1029/2005JD006446.
- LaRow, T. E.** and S. Cocke, 2005: Multi-Convective Parameterization as a Multi-Model Proxy for Seasonal Climate Studies. *J. Climate*, **18**, 2963-2978.
- Shin, D.W., S. Cocke, **T.E. LaRow**, and J. J. O'Brien, 2005: Seasonal Surface Air Temperature and Precipitation in the FSU Climate Model Coupled to the CLM2. *J. Climate*. **18**, 3217-3228.
- Shin, D.W., **T. E. LaRow** and Steve Cocke 2003: Convective scheme and resolution impacts on seasonal precipitation forecasts. *Geophys. Res. Lett.*, **30**, 2078-2082.
- Shin, D.W., Steve Cocke and **T. E. LaRow** 2003: Ensemble Configurations for Typhoon Precipitation Forecasts. *J. Meteor. Soc. Japan*, **81**, 679-696.
- Roads, J.O., S.-C. Chen, S. Cocke, L. Druyan, M. Fulakeza, **T. LaRow**, P. Lonergan, J. Qian and S. Zebiak, 2003: The IRI/ARCs Regional Model Intercomparison Over Brazil. *J. Geophys. Res.*, **108** (D14), pp. 4425. doi: 10.1029/2002JD003201.
- Cocke, S. D. and **T. E. LaRow**, 2000: Seasonal Prediction using a Regional Spectral Model embedded within a Coupled Ocean-Atmosphere Model. *Mon. Wea. Rev.*, **128**, 689-708.
- Krishnamurti, T. N., C. M. Kishtawal, Z. Zhang, **T. E. LaRow**, D. Bachiochi, C.E. Williford, S. Gadgil and S. Surendran, 2000: Multimodel Ensemble Forecasts for Weather and Seasonal Climate. *J. Climate*, **13**, 4196-4216.

- Krishnamurti, T. N., D. Bachiochi, **T. E. LaRow**, B. Jha, M. Tewari, D. Chakraborty, R. Correa-Torres and D. Oosterhof, 2000: Coupled Atmosphere Ocean Modeling of the El Niño of 1997-98. *J. Climate*, **13**, 2428-2459.
- Krishnamurti, T. N., C. M. Kishtawal, **T. E. LaRow**, D. Bachiochi, Z. Zhang, C. Williford, S. Gadgil and S. Surendran 1999: Improved Skill for Weather and Seasonal Climate Forecasts from Multi-Model Super Ensemble. *Science*, **285**, 1548-1550
- LaRow, T. E.** and T. N. Krishnamurti, 1998: Initial Conditions and ENSO Predictability using a Coupled Ocean-Atmosphere Model. *Tellus*, **50A**, 76-94.

Non-Peer Review

- Shin, D. W., S. Cocke, T. E. LaRow, and Y.-K. Lim, 2007: Climate model capability in resolving diurnal cycle of rainfall. *Research Activities in Atmospheric and Ocean Modeling*, CAS/JSC Working Group on Numerical Experimentation. 4-xx. (<http://www.cmc.ec.gc.ca/rpn/wgne/>)
- LaRow, T. E., Y.-K. Lim, D. W. Shin, S. D. Cocke, and E. Chassignet, 2007: High resolution ensemble west Atlantic basin seasonal hurricane simulations. *Research Activities in Atmospheric and Ocean Modeling*, CAS/JSC Working Group on Numerical Experimentation. 6-xx. (<http://www.cmc.ec.gc.ca/rpn/wgne/>)
- Lim, Y.-K., D. W. Shin, T. E. LaRow, and S. Cocke, 2007: Categorical predictability of regionalized surface temperature and precipitation over the southeast United States. *Research Activities in Atmospheric and Ocean Modeling*, CAS/JSC Working Group on Numerical Experimentation. 7-xx. (<http://www.cmc.ec.gc.ca/rpn/wgne/>)
- Shin, D. W., J. G. Bellow, S. Cocke, T. E. LaRow, and J. J. O'Brien, 2006: Seasonal dynamical downscaling for crop yield estimation. *Research Activities in Atmospheric and Ocean Modeling*, CAS/JSC Working Group on Numerical Experimentation. 7-25. (<http://www.cmc.ec.gc.ca/rpn/wgne/>)
- Bai, X., S. Cocke, T. E. LaRow, J. J. O'Brien, and D. W. Shin, 2006: Paradox of SST and lower tropospheric temperature trends over the tropical Pacific ocean. *Research Activities in Atmospheric and Ocean Modeling*, CAS/JSC Working Group on Numerical Experimentation. 2-03. (<http://www.cmc.ec.gc.ca/rpn/wgne/>)
- Lim, Y.-K., T. E. LaRow, J. J. O'Brien, and D. W. Shin, 2006: Statistical downscaling of the FSUGSM temperature over the southeast United States. *Research Activities in Atmospheric and Ocean Modeling*, CAS/JSC Working Group on Numerical Experimentation. 5-33. (<http://www.cmc.ec.gc.ca/rpn/wgne/>)
- LaRow, T. E. and S. Cocke, 2004: Methods for Multi-Model Proxies for Climate Studies. CLIVAR Exchanges Newsletter Spring 2004.
- Cocke, S. D. and T. E. LaRow, 1999: Seasonal Predictions of ENSO Impacts using a Nested Regional Spectral Model. *Research Activities in Atmospheric and Oceanic Modelling*. Ed. H. Ritchie. WMO/TD-No 942.
- LaRow, T. E. and S. D. Cocke, 1999: Simulation of the 1997/98 and 1991/92 ENSO event using a Coupled Ocean-Atmosphere Regional Spectral Model. *Research Activities in Atmospheric and Oceanic Modelling*. Ed. H. Ritchie. WMO/TD-No 942.

Podesta, G, J. Hansen, J.W. Jones, C. Kiker, T. E. LaRow, D. Legler, D. Letson, J.J. O'Brien and F. Royce, 1999: An end-to-end Framework for the Effective Application of ENSO Related Climate Forecasts in the Agricultural Sector of Argentina. 79th AMS Annual Meeting. Dallas, TX.

Education

Doctor of Philosophy, Synoptic Meteorology. 4/97
The Florida State University
Thesis Advisor: Tiruvalam N. Krishnamurti

Doctoral Dissertation Title: Seasonal Simulations using a Coupled Ocean-Atmosphere Model with Data Assimilation

Master of Science, Synoptic Meteorology. 12/92
The Florida State University

Bachelor of Science in Meteorology w/ Minor in Math 4/89
The Florida State University

Grants:

Awarded: Department of Energy grant “Role of Low Frequency Sea Surface Temperatures Modes within a Changing Climate in Modulating Atlantic Hurricane Activity”. Funds \$503,682 for September 1, 2011 - September 1, 2014. **PI**

Awarded: U. S. Department of Commerce grant “Incorporating Climate Change Effects into Next Generation Coastal Inundation Decision Support Systems: An integrated and Community-based Approach”. Funds \$390,000 for May 1, 2011 – April 30, 2014. **FSU-PI**

Awarded: NOAA grant “An Applied NOAA Research Center (ARC) Regional Assessment of Interannual Climate Impacts and Support for NOAA Ocean Observations”. Funds \$1,195,000 for June 1, 2006 - May 31, 2007. Project Period June 1, 2006- May 31, 2011. **Co-PI**

Awarded: NOAA grant “Influences of the Pacific Decadal Oscillation on ENSO-Related Climate Variability”. Funds \$326,000 for July 1, 2001 - June 30, 2004. **Co-PI**

Awarded: NOAA grant “Regional Assessment of ENSO Impact in SSA & SNA to Continue as a NOAA Applied Research Center (ARC) in Support of the International Research Institute” Period: September 1, 1997 - July 31, 2001.

Working Group Member

Member of the US-CLIVAR VAMOS Working Group on Extremes
Member of the US-CLIVAR Hurricanes and Climate Working Group

Student Advising

Yoshie Goto, 2008, Ph.D.
Mary Beth Engelman, 2008, Masters
Dawn Petraitis, 2006, Masters
Michael Phelps, 2002, Masters
David Salapata, 2002, Masters
Kathleen Verzone, 1999, Masters