

David F. Zierden

Curriculum Vitae

Present Position

State Climatologist of Florida
Florida Climate Center and Center for Ocean-Atmospheric Prediction Studies The
Florida State University Tallahassee, FL 32306-2840
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Education

MS, Meteorology, 1998, Florida State University, Tallahassee, FL
Thesis: Cyclone surface pressure fields and frontogenesis from NASA
scatterometer (NSCAT) winds
BS, Meteorology, 1997, Florida State University, Tallahassee, FL

Research Interests

Climate services, Climate variability and prediction, especially as applied to Florida and the Southeast U.S. Development of climate information products and decision support systems, Outreach and interaction with stakeholder groups, emphasis on agriculture, Climate change education

Peer-Reviewed Publications

- Ingram, K.T., J. W. Jones, J. J. O'Brien, M. C. Roncoli, C. Fraisse, N. E. Breuer, W. L. Bartels, D. F. Zierden, and D. Letson, 2013: Vulnerability and Adaptability of Agricultural Systems in the Southeast United States to Climate Variability and Climate Change. *Climate Change in the Midwest*, S. C. Pryor, Indiana University Press, 48-58
- Bartels, W, C. A. Furman, D. C. Diehl, F. S. Royce, D. R. Dourte, B. V. Ortiz, D. F. Zierden, T. A. Irani, C. W. Fraisse, J. W. Jones, 2012, Warming up to climate change: a participatory approach to engaging with agricultural stakeholders in the Southeast U. S. *Regional Environmental Change*: doi:10.1007/s10113-012-0371-9.
- Roncoli, C., N. Breuer, D. Zierden, C. Fraisse, K. Broad, and G. Hoogenboom, 2012, The art of the science: Climate forecasts for wildfire management in the Southeast United States. *Climatic Change*: 113(2), 1113-1121.
- Fraisse, C.W. , N.E. Breuer, D. Zierden, K.T. Ingram. 2009, From climate variability to climate change: Challenges and opportunities to extension. *Journal of Extension*, 47(2).
- Brolley, Justin, O'Brien, J., Zierden, D. (2007), Experimental Forest Fire Threat Forecast in Florida, *Journal of Agricultural and Forest Meteorology*, 145, 84-96.

- Fraisse, C. W., Bellow, J. G., Breuer, N., Cabrera, V., Hatch, L., Hoogenboom, G., Ingram, K., Jones, J. W., O'Brien, J.J., Paz, J., Zierden, D. (2006), AgClimate: A Climate Forecast Information System for Agricultural Risk Management in the Southeastern USA., *Computers Electronics Agriculture* 53(1):13-27.
- Jagtap, S. S., P. Hildebrand, D. Letson, J. J. O'Brien, G. Podesta, D. Zierden, and F. Zazueta (2002), Responding to stakeholder demands for climate information: from research to applications in Florida, *Agricultural Systems* 74(3), 415-430.
- Letson, D., J. Hansen, P. Hildebrand, J.W. Jones, J.J. O'Brien, G. Podesta, F. Royce and D. Zierden (2001), Florida's Agriculture and Climatic Variability: Reducing Vulnerability, *The Florida Geographer*, 32, 38-57.
- Zierden, D. F., M. A. Bourassa, and J. J. O'Brien (2000), Cyclone surface pressure fields and frontogenesis from NASA Scatterometer (NSCAT) winds, *Journal of Geophysical Research - Oceans*, 105(10), 23967-23981.
- Bove, M. C., D. F. Zierden, and J. J. O'Brien (1998), Are Gulf Hurricanes Getting Stronger?, *Bulletin of the American Meteorological Society*, 79(7), 1327-1328.

Other Publications

- Bartels W, Furman CA, Royce F, Ortiz B, Zierden D, Fraisse C (2012), Developing a learning community: Lessons from a climate working group for agriculture in the Southeast USA. Southeast Climate Consortium Technical Report Series: 12-002
- Fraisse, C.W., Breuer, N.E., and Zierden, D, 2011. Drought decision-support tools: Introducing the Keetch-Byram Drought Index – KBDI. UF IFAS Extension #AE471.
- Hoogenboom, G., C.W. Fraisse, J.W. Jones, K.T. Ingram, J.J. O'Brien, J.G. Bellow, D. Zierden, D.E. Stooksbury, J.O. Paz, A. Garcia y Garcia, L.C. Guerra, D. Letson, N.E. Breuer, V.C. Cabrera, L.U. Hatch and C. Roncoli. 2007. Climate-based agricultural risk management tools for Florida, Georgia and Alabama, USA. In: p. 273-278. (M.V.K. Sivakumar and J. Hansen, editors). *Climate Prediction and Agriculture: Advances and Challenges*. Springer, Berlin, Germany.
- Winsberg, M. D., J. J. O'Brien, D. F. Zierden, and M. Griffin (2003), *Florida Weather, 2nd Edition*, 220 pp., Gainesville: University Press of Florida.
- Zierden, D. F., M. Griffin, and J. J. O'Brien (2003), Southeast Winter Freeze Forecast for 2003/2004, Southeast Climate Consortium Publication, 8 pp.
- Davis, S. R., M.A. Bourassa, R. Atlas, J. Ardizzone, E. Brin, J.J. O'Brien, and D.F. Zierden, (2003), Near-realtime sea surface pressure Fields from NASA's SeaWinds scatterometer and their impact in NWP, CAS/JSC Working Group on Numerical Experimentation, Research Activities in Atmospheric and Oceanic Modeling, ed. H. Ritchie, 01:20-21 pp., World Meteorological Organization, USA.
- O'Brien, J. J., Zierden, D. F., and Griffin, M. (2002), Long-term Forecasting of Wildfire season severity in Florida, Submitted to Department of Agriculture and Consumer Services, COAPS Technical Report 2002-2, Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, Florida, USA.
- Hanley, D., S. Jagtap, T. LaRow, J. Jones, S. Cocke, D. Zierden, and J. J. O'Brien (2002), The linkage of regional climate models to crop models, *Amer. Meteor. Soc.*, Orlando, FL, USA. 134-139.

Zierden, D. F., Hansen, J., Jones, J., Letson, D., Legler, D., O'Brien, J., and Podesta, G. (1999), El Niño, La Niña and Florida's Climate : Effects on agriculture and forestry, Florida Consortium technical report.

Professional Organizations

American Meteorological Society – member American

Association of State Climatologist – member