

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

Providing 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

Peer-Reviewed Publications

- Roncoli, C., Breuer, N., Bellow, J., Zierden, D., Ingram, K., Broad, K. (2006), Potential Applications of KBDI Forecasts for Fire Management Decisions in Georgia and Florida, *Journal of Applied Meteorology and Climatology* (submitted).
- 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* (in press).
- Brolley, Justin, O'Brien, J., and Zierden, D. (2006), Experimental Forest Fire Threat Forecast in Florida, *Journal of Agricultural and Forest Meteorology* (submitted).
- 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

- 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.

Presentations

- Zierden, D. F. and Fraisse, C. F. (2006) Climate and crop-specific outlooks available on AgClimate.org, Climate Prediction and Applications Science Workshop, Tuscon, AZ
- Zierden, D. F. (2006), Teleconnections: ENSO and the PNA, National Seasonal Assessment Workshop, Eastern and Southern States, Shepherdstown, WV.
- Zierden, D. F. (2005), Climate Variability and Forecasting in the Southeast U.S., Alabama Water Resources Conference, Gulf Shores, AL
- Zierden, D. F. (2005), Climate Variability and Forecasting in the Southeast U.S., 7th Annual Southern Peanut Growers Conference, Panama City, FL
- Zierden, D. F., Fraisse, C. F., and J. J. O'Brien (2005), A climate-based decision support system for agriculture in the southeast U.S., Climate Prediction and Applications Science Workshop, Palisades, NY
- Zierden, D. F., Fraisse, C. F., and J. J. O'Brien (2005), A climate-based decision support system for agriculture in the southeast U.S., 15th Annual AMS Applied Climate Conference, Savannah, GA

- Zierden, D. F., James J. O'Brien, and M. Griffin (2004), User-driven climate forecasts in the Southeast U. S., Climate Prediction and Applications Science Workshop, Tallahassee, FL.
- Zierden, D. F. and James J. O'Brien (2004), Forecasting wildfire activity in Florida, National Seasonal Assessment Workshop, Eastern and Southern States, Shepherdstown, WV.
- Zierden, D. F. and James J. O'Brien (2004), Climate prediction for use in agriculture, Cotton Expo, Dothan, AL.
- Zierden, D. F., James J. O'Brien and M. Griffin (2003), Overview of the Florida Climate Center, NWS Southern Region Climate Services Conference, Baton Rouge, LA.
- Zierden, D. F. (2003), El Niño and Florida's Climate, Cold protection workshop, Tavares, FL.
- Zierden, D. F., J. J. O'Brien, and M. Griffin (2002), Forecasting Wildfire Threat in Florida, Climate Prediction Assessments Workshop, Alexandria, VA.

Activities-Outreach

- Tallahassee Kiwanis Club (2006) – Drought, Hurricanes, and other Climate Issues
- University of Florida Extension (2002-2006) – Present climate information and training to extension faculty in periodic meetings and workshops.
- North Florida Gulf Fishing Club (2003) – El Niño and other forecasting problems
- Florida Environmental Health Association, Big Bend District (2002) – Participated in the educational meeting on Global Warming and Human Health

Activities – Expert Testimony

- Horizon Construction and Development, Inc. versus City of Lakeland, Florida (2002) – Gave deposition on weather and climate conditions in Polk County Circuit Court case no. GC-G-98-1213.
- State of Florida versus David Vaillancourt (2000) – Testified in court (Walkula County) on weather conditions during a DUI stop in Walkula County on Jan. 29, 1999. Walkula County Circuit Court case no. 2000-113MTMA
- Jessica Fancher versus W. W. Trucking Company, et al. (2002) – Gave video deposition on weather conditions near Jupiter, FL on Nov. 30, 1997. Palm Beach County Circuit Court case no. CL 98-005771 AD.
- Nichols and McDaniel versus Walpole, Inc. (2000) – Telephone deposition on weather conditions Near Fort Pierce on February 11, 2000. Palm Beach County Circuit Court case no. CL -00-4881 A1.
- Walker versus Waddell (2002) – Affidavit concerning weather conditions in Tallahassee, FL on June 11-12, 2001. Leon County Circuit Court case no. 01-1906.
- State of Florida versus Cornelius George Rafferty (2002) – Telephone deposition on weather Conditions near Fort Myers, FL on July 5, 2002. Lee County Circuit Court case no. 99 00117CF.
- Snoddy versus Biddle (2001) – Testified in U.S. District Court concerning wind and wave Conditions near Panama City, FL on Mar. 5, 2000. U.S. District Court, Northern District of Florida case no. 5:00 CV 302-SPM.

Professional Organizations

American Meteorological Society – member

American Association of State Climatologist – member