MICHAEL J. VENTRICE, Ph.D.
Michael.Ventrice@weather.com
Mentrice@us.ibm.com
Somerville, MA, 02145

EDUCATION

University at Albany, Albany, NY
Doctor of Philosophy, December 2012

- Tropical Meteorology Specialist; Medium-Range Tropical Cyclone Prediction Techniques; Tropical-Extratropical Interactions

University at Albany, Albany, NY
Bachelor of Science – Atmospheric Science and Meteorology, May 2008

- Minor: Mathematics
- Omicron Delta Kappa National Leadership Honor Society

EXPERIENCE

Operational Scientist **The Weather Company, an IBM Business, Andover, MA** January 2013-Current

- Medium-range/Sub-Seasonal/Seasonal temperature forecaster with model risk assessment.
- Short-term weather analyst for power traders.
- Invention, productization, and sales of new weather products
- Big Data Analytics.
- Company weather blogger and webinar presenter.
- Expert in global weather analysis, which has strong applications in energy markets, insurance risk assessment, etc.
- Co-author peer-reviewed literature on both academic and energy related topics.
- On-air television appearances that includes the Weather Channel, Al Jazeera America, Fox, and other local media outlets in New England
- Often quoted in media outlets that include The Wire, Bloomberg News, Washington Post, Mashable, Boston.com, Bostinno.com, LaRepublic.pe, the Examiner, Yahoo News, and International Business Times.
- Presenter at academic and energy-focused weather conferences.

Student Mentor and Executive Board Member **AMS Board for Private Sector Meteorologists**, February 2013 – Current

- Provide career advice with students who are interested in entering the private meteorology sector, focused in the energy and natural gas markets.
- Elected board member with a three year term (2015)

Research Assistant **Department of Atmospheric and Environmental Science, University at Albany, Albany, NY,** September 2008 – December 2012

- Researched tropical-extratropical interactions and tropical cyclone development processes under Christopher D. Thorncroft, Ph.D.
- Attended and presented topics of research at over a dozen national and local conferences, including NASA's GRIP and HS3 field campaigns. Also was a guest speaker at the National Hurricane Center on my Ph.D. dissertation.

Student Forecaster **NASA's HS3 Field Campaign**, August 2011-October 2012

- Forecasted the genesis and tracks of Atlantic tropical cyclones in real-time during 2012.
- Led daily weather briefings during the campaign for strategic planning and pilots.
- Constructed flight plans and assisted in real-time flight maneuvering during dropsonde deployment.

Intern **Citadel Investment Group, Chicago, IL,** July 2010-September 2010

- Forecasted medium-range Atlantic tropical cyclone activity for traders to make a stance on oil futures and natural gas.
- Researched the impact of convectively-coupled tropical waves on anomalous periods of Atlantic tropical cyclogenesis activity.

Hydro-Meteorological Technician & Intern **National Weather Service, Albany, NY,** May 2007 – May 2008

- Coordinated and performed daily weather balloon launches
- Supervised and instructed student interns during weather balloon launches
- Trained as a general forecaster programming with AWIPS and fabricated forecast discussions daily

PUBLICATIONS

- Ventrice, M. J., C. D. Thorncroft, and P. E. Roundy, 2011: The Madden Julian Oscillation's influence on African easterly waves and downstream tropical cyclogenesis. *Mon. Wea. Rev.*, **139**, 2704-2722.

MICHAEL J. VENTRICE, Ph.D.
Michael.Ventrice@weather.com
Mentrice@us.ibm.com
Somerville, MA, 02145

- Ventrice, M. J., C. D. Thorncroft, and M. A. Janiga, 2012a: Atlantic tropical cyclogenesis: A three-way interaction between an African easterly wave, diurnally varying convection, and a convectively-coupled atmospheric Kelvin wave. *Mon. Wea. Rev.*, **140**, 1108-1124.
- Ventrice, M. J., C. D. Thorncroft, and C. J. Schreck III, 2012b: Impacts of convectively coupled Kelvin waves on environmental conditions for Atlantic tropical cyclogenesis. *Mon. Wea. Rev.*, **140**, 2198-2214.
- Ventrice, M. J., and C. D. Thorncroft, 2013: A convectively coupled equatorial Kelvin wave's impact on African easterly wave activity. *Mon. Wea. Rev.* **141**, 1910-1924.
- Ventrice, M. J., M. C. Wheeler, H. H. Hendon, C. J. Schreck III, C. D. Thorncroft, and G. N. Kiladis, 2013: A modified multivariate Madden Julian Oscillation index using velocity potential. *Mon. Wea. Rev.*, **141**, 4197–4210.
- Kiladis, G. N., J. Dias, K. H. Straub, M. C. Wheeler, S. N. Tulich, K. Kikuchi, K. M. Weickmann, M. J. Ventrice, 2014: A Comparison of OLR and Circulation-Based Indices for Tracking the MJO. *Mon. Wea. Rev.*, **142**, 1697–1715.
- Schreck, C.J. III, S. Bennett, J. M. Cordeira, J. Crouch, J. Dissen, A. L. Lang, D. Margolin, A. O'Shay, J. Rennie, and M. J. Ventrice, 2015: Natural Gas Prices and the Extreme Winters of 2011/12 and 2013/14: Causes, Indicators, and Interactions, *Bull. Am. Met. Soc*., **96**, 1879-1894–1715.

SKILLS

- Computer: Proficient in NCAR Command Language, Microsoft Office (focused in Excel and PowerPoint), GRADS. Some experience with Matlab, C++, and Visual Basic.

HONORS AND AWARDS

- "Geek of the Week" on The Weather Channel's series, *Weather Geeks*, 2015
- The Weather Company (Energy) Employee of the year, 2015
- *Max A. Eaton Prize* – 29th Conference on Hurricanes and Tropical Meteorology, 2010
- University at Albany College of Arts and Science Featured Student, 2010
- Residential Life Staff Member of the Year,2007