

Curriculum Vitae

Education

B.S. Meteorology (*magna cum laude*), minors in Mathematics and Physics
Valparaiso University; Valparaiso, IN
May 2007

PhD. Atmospheric Science, advisor: Prof. Chris D. Thorncroft
University at Albany; Albany, NY (In Progress)

Research and Interests

My research focuses on the mesoscale convective systems (MCSs) observed over Africa and their interaction with African easterly waves (AEWs). I am examining the two-way interaction between MCSs and AEWs within the West African monsoon. One focus is the role of AEWs in initiating convection. Another is the impact of the convection on the genesis and life-cycle of AEWs.

Refereed Publications

Bou Karam, D.B., E. Williams, M., McGraw-Herdeg, **M.A. Janiga**, J. Cuesta, A. Auby, C. Flamant, and C.D. Thorncroft: A dusty gust front at the synoptic scale initiated and maintained by moist convection over the Sahara Desert. Submitted to *Mon. Wea. Rev.* January 2010

Roundy, P. E. and **M. A. Janiga**: Analysis of waves in an anelastic model on the equatorial beta plane and comparison with observations. Submitted to *J. Atmos. Sci.* January 2010.

Roundy, P. E., C. J Schreck, and **M. A. Janiga**, 2009: Contributions of convectively coupled equatorial Rossby waves and Kelvin waves to the real-time multivariate MJO indices. *Mon. Wea. Rev.*, **137**, 469–478.

Yu, J.-Y. and **M. A. Janiga**, 2007: Changes in the in-phase relationship between the Indian and subsequent Australian summer monsoons during the past five decades. *Annales Geophysicae*, **25**, 1929-1933.

Presentations and Posters

Janiga, M. A., C. D. Thorncroft, 2009: The impact of African easterly waves on the environment and characteristics of convection over West Africa. *3rd AMMA Conference*, 20 – 24 July 2009, Ouagadougou, Burkina Faso. (presentation)

Bou Karam, D., E. Williams, M. McGraw-Herdeg, **M.A. Janiga**, J. Cuesta, C. Flamant, J. Pelon, and C.D. Thorncroft: Dusty gust fronts at synoptic scale, initiated and maintained by moist

convection over the Sahara desert. *3rd AMMA Conference*, 20 – 24 July 2009, Ouagadougou, Burkina Faso. (poster)

Janiga, M. A., C. D. Thorncroft, and E. R. Williams, 2009: The environment and characteristics of convective events over Niamey, Niger: AMMA SOP2 observations and climatological context. *3rd AMMA Conference*, 20 – 24 July 2009, Ouagadougou, Burkina Faso. (poster)

Janiga, M. A., C. D. Thorncroft, 2009: The impact of African easterly waves on the environment and characteristics of convection over West Africa. *Northeast Tropical Conference*, 22-25 June 2009, Rensselaerville, NY. (presentation)

Janiga, M. A., C. D. Thorncroft, and E. R. Williams, 2008: An intense MCS over Niamey, Niger on August 11, 2006. *28th Conf. on Hurricanes and Tropical Meteorology*, 28 April –2 May 2008, Orlando, FL. (poster)

Janiga, M. A. and Yu, J.-Y., 2007: Changes in the in-phase relationship between the Indian and subsequent Australian summer monsoons in the past five decades. *6th Annual AMS Student Conf.*, 15–18 January 2007, San Antonio, TX. (poster)

Organizations

American Meteorological Society (2004 - present)

American Geophysical Union (2007 – present)

Honors

Eugene M. Rasmusson Award (2007)

Teaching Experience

Teaching Assistant, University at Albany (Fall 2007 and Spring 2008)

Other Experiences

NSF Fellowship in Biogeochemistry and Climate Change, University of California, Irvine (2006)