

Alicia C. Wasula, Ph.D., CCM

Education and Certifications

Ph.D. in Atmospheric Science, University at Albany/SUNY, 2005

Dissertation: "A Comprehensive Study of Cool Season Tornadoes in the Southeast United States"

Advisor: Lance F. Bosart

M.S. in Atmospheric Science, University at Albany/SUNY, 2001

B.S. in Atmospheric Science, University at Albany/SUNY, 1998, *cum laude*, Presidential Scholar, Dean's List, Phi Beta Kappa Honor Society Golden, Key National Honor Society Summa

Certified Consulting Meteorologist (CCM), American Meteorological Society (AMS), 2015

Certificate #711. Subsequent to passing the oral examination, I was invited to begin a four year term as a member of the AMS board of Certified Consulting Meteorologists in January of 2016. That board is the examining and review body for the CCM program that develops, administers and evaluates written and oral examinations for CCM candidates. In 2018, I am serving a term as Chair-Elect and in 2019 I will serve as Chair.

Professional Affiliations

American Meteorological Society

National Weather Association

Professional Experience: Consulting

Shade Tree Meteorology, LLC, 2013-Present, Consulting Meteorologist. A full-service forensic meteorology firm specializing in severe weather event reconstruction, including weather records retrieval and interpretation; weather radar imagery interpretation; detailed, scientifically accurate reports; weather event descriptions in clear non-technical language; expert opinions and testimony; and severe weather damage assessments.

Professional Experience: Teaching

Present high-level scientific topics in a format that makes them accessible to my students, often citing current examples of weather events to make the topics relevant and meaningful. Careful to understand my audience and present the material in the way that will be most understandable to them, I spend extra time tutoring students who may benefit from an alternate method of learning the material. Was awarded the Bernard Vonnegut Teaching Award, 2004, in recognition of "extraordinary dedication to teaching by an atmospheric science graduate student."

Spring 2006-Present: Adjunct professor, Hudson Valley Community College

Classes taught:

- a. Introduction to Meteorology: General survey of the atmospheric sciences
- b. Physical Science II: Interdisciplinary survey of meteorology, geology, and astronomy

Classes developed:

- a. Introduction to Meteorology (see description above)

- b. Atmospheric Structure and Circulation: Calculus and physics-based survey of the atmosphere for meteorology majors
- c. Natural Hazards (in progress): General education course which explores science and public impact of various natural disasters

Spring 2008: Instructor, Dynamic Meteorology II, SUNY Albany, NY

Fall 2007: Instructor, Introduction to Meteorology, SUNY New Paltz, NY

Fall 2006: Instructor, ATM 411, Dynamic Meteorology I, SUNY Albany, NY

Graduate teaching experience:

2003-2004: Teaching Assistant, ATM 401 (Synoptic Meteorology II), SUNY Albany, NY

2001-2003: Instructor, ATM 400 (Synoptic Meteorology I), SUNY Albany, NY

2002-2003: Teaching Assistant, ATM 450 (Computer Applications in Atmospheric Science), SUNY Albany, NY

2000-2001: Head Teaching Assistant, ATM 100N (Intro. to the Atmosphere), SUNY Albany, NY

5) 1999-2000: Teaching Assistant, ATM 100N (Intro. to the Atmosphere), SUNY Albany, NY

Professional Experience: Research

Experience in operational research, collaborating with both the local National Weather Service office at Albany, national centers such as the Storm Prediction Center, and other universities. Have presented at local and national conferences, and have published numerous conference preprints, in addition to refereed journal articles. My work on the effect of local terrain (Hudson and Mohawk River valleys and surrounding mountains) has helped to quantify the effect that these features have on the development and evolution of thunderstorms and severe weather in upstate New York. My work on nocturnal tornadic cool-season thunderstorms in the southeast United States resulted in a framework to better understand the mechanisms by which these storms form. Additionally, several detailed case studies of both high-impact and null events emphasize the importance of careful analysis of observational data from any and all available sources.

Refereed publications and selected conference preprint publications:

Wasula, Alicia C., Bosart, Lance F., Schneider, Russell, Weiss, Steven J., Johns, Robert H., Manikin, Geoffrey S., Welsh, Patrick, 2005: Mesoscale aspects of the rapid intensification of a tornadic convective line across central Florida. 22-23 February 1998. *Weather and Forecasting*, 22, 223-243.

Wasula, Alicia C., Bosart, Lance F., and LaPenta, Kenneth D., 2002: The Influence of Terrain on the Severe Weather Distribution across Interior Eastern New York and Western New England. *Weather and Forecasting*, 17, 1277-1289.

Bosart, Lance F., Wasula, Alicia C., Drag, Walter H., Meier, Keith W., 2008: Strong Surface Fronts over Sloping Terrain and Coastal Plains. *Meteorological Monographs*, 33, 35-86.

Wasula, A. C., Bosart, L. F., Johns, R. H., Weiss, S. J., and Schneider, R., 2002: An examination of the contrasting evolution of two southeast United States cool-season severe weather episodes. *Preprints, 21st Conf. on Severe Local Storms*, San Antonio, TX, 11-16 August 2002, AMS, 659-662.