

Three Year Curriculum Vitae

Date of Revision: May 5, 2008

Charles E. Konrad II (Chip)

Research Grants and Contracts

Robinson, P.J, and C. E. Konrad: 2007-2009: The Southeastern Regional Climate Center. NOAA, ~\$1,400,000.

Stallins, J.A., Bentley, M., Konrad, C. E., Diem, J. 2003-2007: Complex controls on the distribution of lightning characteristics and property damage in an urbanized region. National Science Foundation, \$96,473

Konrad, C. E. Synoptic climatology of precipitation forcing fields over the eastern U.S. 2000-2003, National Science Foundation. BCS-9911315. \$106,905.

Band, L. E., Konrad, C. E., Moody, A. Drought vulnerability in the Catawba River basin. 2003-2004, Duke Energy Foundation, \$100,000.

Publications

Perry L. and C. E. Konrad, 2007: Antecedent Upstream Air Trajectories Associated with Northwest Flow Snowfall in the Southern Appalachians, USA. *Weather and Forecasting*, 22, 334-352.

Martin, J. and C.E. Konrad, 2006: Directional characteristics of potentially damaging wind gusts in the Southeast United States. *Physical Geography*, 27, 155-169. *Note: Published in 2007*

Perry L. and C. E. Konrad, 2006: Relationships between northwest flow snowfall and topography in the Southern Appalachians. *Climate Research*, 32, 35-47.

Chen, F. and C. E. Konrad, 2006: A synoptic climatology of summertime heat and humidity in the Piedmont Region of North Carolina. *Applied Meteorology and Climatology*, 45, 674-685.

Murphy, M. and C. E. Konrad, 2005: Spatial and temporal patterns of thunderstorm events that produce cloud-to-ground lightning in the interior southeastern United States. *Monthly Weather Review*, 133, 1417-1430.

Published Conference Proceedings

Perry, B. Konrad, C.E., Lee, L. G., and D.Hotz . 2007. Synoptic Classification of Snowfall Events in the Great Smoky Mountains, USA. 64th Eastern Snow Conference Proceedings, St.Johns Newfoundland, May 29-June 2.

Perry, B. and C. E. Konrad. 2006. Synoptic patterns associated with the record snowfall of 1960 in the southern Appalachians. 63rd Eastern Snow Conference Proceedings, Newark, DE, June 8-10.

Perry, B. and C. E. Konrad. 2005. The Influence of the Great Lakes on snowfall patterns in the southern Appalachians. 62nd Eastern Snow Conference Proceedings, Waterloo, Ontario, Canada, June 7-10.

Presentations

"Relationships between Heavy Rainfall and Tropical Cyclones in the Carolina region of the U.S." Preprints of the 104th Conference of the Association of American Geographers. April 15-19, 2008, Boston, MA

"Future Trends in the Frequency and Intensity of Hurricanes". Invited Presentation on November 12-13, 2007 at the North Carolina Beach, Inlet, and Waterway Association Annual Conference, Carolina Beach, NC

"Heavy Rainfall associated with Tropical Cyclones in the Carolinas". Invited presentation on September 28, 2007 to the Department of Environmental Sciences at the University of Virginia, Charlottesville, VA

"The Hydrological Significance of Tropical Cyclones in the Carolina Region of the United States". The IGU Commission for Water Sustainability Annual Conference, August 13-15 2007, Asheville, NC

"The New Southeastern Regional Climate Center". 2007 Climate Workshop NWS Eastern Region and Southern Region on June 20-21 2007, Peachtree City, GA.

"Hurricanes in the Carolinas: Why does it rain so much?" Invited presentation on January 26, 2007 to the Department of Geography at the University of North Carolina at Chapel Hill, Chapel Hill, NC.

"Relationships between tropical cyclones and heavy precipitation in the Carolinas" Preprints of the 16th Conference on Applied Climatology. January 14-18, 2007. San Antonio, TX.

"Heavy rainfall associated with tropical cyclones in the Carolinas" Invited presentation on March 17, 2006 to the Department of Geography at the University of North Carolina at Greensboro, Greensboro, NC.

"The Superpositioning of Synoptic Scale Features in Connection with Heavy Rainfall across the Eastern United States" Preprints of the 102nd Conference of the Association of American Geographers. March 6-12, 2006 Chicago, IL

"Regional variations in the synoptic patterns associated with warm season heavy rainfall across the eastern United States". Preprints of the 59th Conference of the Southeastern Division of the Association of American Geographers. November 18-22, 2005, West Palm Beach, FL

"The Positioning of Synoptic Scale Features Relative to the Locations of Heaviest Rainfall Across the Southeastern U.S." Invited presentation at the CSTAR workshop at NC State University, October 6-7, 2005, Raleigh, NC

"Diurnal and Seasonal Variations in the Clarity of Celestial Observations as Inferred from Visibility Data". Invited presentation on October 14, 2005 to the Raleigh Astronomy Club, Raleigh, NC.

"A Synoptic Climatology that Sheds Light on the Excessive Rainfall Associated with Hurricane Frances and Ivan" Invited presentation on March 25, 2005 to the Department of Geography at the University of Georgia, Athens, GA.

"A Synoptic Climatology that Sheds Light on the Excessive Rainfall Associated with Hurricane Frances and Ivan" Invited presentation on February 21, 2005 to the Department of Marine, Earth, and Atmospheric Sciences at the North Carolina State University, Raleigh, NC.

"What Can Climatologies Tell Us About the Excessive Rainfall Associated with Hurricanes Frances and Ivan? Invited presentation on October 21, 2005 to the Department of Geography and Planning at Appalachian State University, Boone, NC.