

PART II: Environmental Parameters Associated with the New Year's Eve Tornado Outbreak 2010

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This study examines the environmental parameters associated with the tornado outbreak that occurred over the central part of the United States on New Year's Eve 2010. These tornadoes occurred in an environment characterized by low instability and high shear associated with a strong mid-latitude extratropical cyclone. We specifically examine two tornadoes (one rated EF-3 and one EF-2) that occurred in the National Weather Service St. Louis County Warning Area (LSX CWA). The environment from this event will be compared to the climatology of cool season significant tornadoes over the north central United States examined in previous studies by the authors (2010 and 2006).