GIS, Weather, and Societal Impacts

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Abstract
GIS methods and analysis tools have been widely used in many societal sectors and academic disciplines for data integration, analysis and decision-making over the past two decades. In recent years, collaborations among GIS developers, research, and operational users have contributed to integrated data modeling and evolving GIS functionality for use in meteorology and climatology. Emerging operational and research applications range from severe weather warnings to assessments of societal impacts and vulnerabilities to hazardous weather events.

In this talk, Dr. Wilhelmi will describe advances in integration of GIS with atmospheric data and models across scales, discuss GIS applications in weather and societal impacts research, and present key findings from 2008 NCAR workshop on GIS in weather, climate, and impacts.