



Weather and Climate Variability and Extremes in the Southeastern United States

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Message from the Guest Editor

Because of its location in the subtropics, the southeastern United States (SE US) is affected by a variety of weather and climate phenomena of tropical, subtropical, and midlatitude origin. The SE US is a hotspot of billion-dollar weather and climate disasters in the United States, and the impacts of year-round weather and climate hazards are increasing. The region is vulnerable to hurricanes, extreme heat events, springtime tornado outbreaks, wintertime blizzards and ice storms, as well as flooding and severe drought. The ongoing sea-level rise further aggravates the vulnerability of the extensive coastline of the SE US to year-round coastal storms and king tide events.

This Special Issue focuses on advancing our understanding of climate and weather variability and extremes in the SE US, to help guide ongoing mitigation and adaptation efforts in dealing with the increasing challenges faced by the region. We invite contributions on all aspects of climate and weather of the SE US, including observations and modeling of phenomena that affect the region on timescales ranging from diurnal to centennial.





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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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