



Advances in Mesoscale Meteorology and Precipitation Monitoring and Processes Using Remote Sensing Observations and Technologies

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Message from the Guest Editor

As revealed by advances in observing technology such as Doppler radar and satellite remote sensing and in numerical modeling, it has been recognized that most of the hazardous weather events occurring in the real atmosphere are closely related to mesoscale phenomena. Because of the inherent complexity and rapidly evolving characteristics of these scenarios, the theoretical principles of synoptic meteorology cannot usually be applied to explain the causes of these high-impact weather conditions. Temporally and spatially high-resolution remote sensing observations and numerical simulations have thus represented vital resources and tools for a broad range of mesoscale research and operational applications. This SI welcomes submissions from all aspects of mesoscale phenomena and their precipitation monitoring and processes using remote sensing observations and relevant technologies. Mesoscale phenomena of particular interest in this Special Issue include but are not limited to mesoscale convective systems, thunderstorms, frontal precipitation, tropical cyclones, landfalling weather systems, rainbands, orographic precipitation, and diurnally generated circulations and precipitation.





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Message from the Editor-in-Chief

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