

Special Issue

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

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.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2022)



Remote Sensing

an Open Access Journal
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Impact Factor 4.1
CiteScore 8.6



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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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