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 highimpact 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

Dr. Cheng-Ku Yu

Department of Atmospheric Sciences, National Taiwan University, No. 1, Sec. 4, Roosevelt Road, Taipei 10617, Taiwan

Deadline for manuscript submissions

closed (31 December 2022)



an Open Access Journal by MDPI

Impact Factor 4.1 CiteScore 8.6



mdpi.com/si/87856

Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
remotesensing@mdpi.com

mdpi.com/journal/ remotesensing





an Open Access Journal by MDPI

Impact Factor 4.1 CiteScore 8.6



About the Journal

Message from the Editorial Board

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 peerreview 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.

Editors-in-Chief

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001. USA

Prof. Dr. Dongdong Wang

Institute of Remote Sensing and Geographic Information Systems, Peking University, Beijing, China

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubAg, GeoRef, Astrophysics Data System, Inspec, dblp, and other databases.

Journal Rank:

JCR - Q1 (Geosciences, Multidisciplinary) / CiteScore - Q1 (General Earth and Planetary Sciences)

