



Remote Sensing for Precipitation Measurements and Lightning Meteorology

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Message from the Guest Editors

In recent years, there has been a growing interest in the study of extreme natural events, mainly linked to the strong impacts on human society, especially infrastructure and people. Due to the availability of increasingly dense observational ground networks and satellite sensors with continuously improving capabilities, the possibility of accurately measuring different parameters relevant to remote characterization precipitation and electrical processes (e.g., lightning) continue to expand. Reprocessing of datasets is beginning to provide sufficient spatial and temporal coverage for the study of climate trends. An increasing ability to obtain detailed precipitation features with a high temporal frequency and short delay makes real-time precipitation monitoring an indispensable tool for warning and a basis for the nowcasting of severe events or for the assimilation into forecast models. Thunderstorms exhibit the unique coupling between electrical and precipitation processes, and thus remotely sensing lightning enables monitoring and alerting against flash floods, hail, and other extreme phenomena.





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Message from the Editorial Board

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