



Processing and Application of Weather Radar Data

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Message from the Guest Editors

Currently, the most powerful technique for monitoring natural hazards induced by heavy rainstorms is to use weather radars (e.g., ground based radars, profiling radars, as well as space born radars). Moreover, dual-polarization or dual-frequency radar data are used to derive water mixing ratios and number concentrations and to improve the capability of the convection-permitting numerical weather prediction (NWP) models to forecast severe storms at scales varying from a few hundred meters to kilometers. Advanced QPF products are of great assistance in short-term weather and hydrological forecasting. Associated surface in situ observations, such as from rain gauges, runoff gauges, and disdrometers, are also required for calibrating radar observational variables and products.

Although weather radars have been widely used in many fields, several valid challenges remain in radar processing and application. Submission of manuscripts involving radar signal processing methods, applications in QPE, QPF, and severe weather observation, and data assimilation for NWP models is strongly encouraged.





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