



Weather Radar Observations of Severe Storms

Guest Editor:

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Deadline for manuscript
submissions:

closed (31 January 2020)

Message from the Guest Editor

The technological improvements in the last few decades have supported the efforts of the scientific and operational community in facing the intrinsic issues related to the use of weather radars in a broad set of applications. In this respect, the spread of dual-polarization has enormously improved the data quality, quantitative precipitation estimation, microphysical parameters and process analysis, and discrimination of radar returns. As a result, weather radars have become an indispensable tool in the daily activities carried out by meteorological services all over the world.

This Special Issue, while focused on the recent advancements on the analysis of severe storms, QPE, microphysical parameter estimation, processes analysis, and nowcasting, is also dedicated to data quality management, multisensors data fusion, data assimilation, radar networking, urban scale monitoring, and early warning. Recent advances on the analysis and quantification of winter storms are more than welcome.





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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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Journal Rank: CiteScore - Q2 (*Environmental Science (miscellaneous)*)

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