Special Issue

Radar Applications for Severe Weather Understanding and Nowcasting

Message from the Guest Editors

Severe storms have large personal and economic impacts each year. Radar observations remain a valuable way to obtain critical information about thunderstorm structure, microphysics, and temporal changes. This Special Issue of *Atmosphere* is focused broadly on the use of radar observations to gain understanding of severe storms. We seek research studies in which radar observations are used to examine any aspect of severe storms. Polarimetric or research radar observations are particularly encouraged. Potential submissions may include those elucidating fundamental storm structure and microphysics, and changes in these aspects over time. Studies with a nowcasting/operational focus are also welcome, as are studies with a radar component but focused more broadly. Descriptions and results of algorithms to more effectively use radar observations during severe weather events are sought. Social aspects of the use of radar in severe weather situations, either among nowcasters or the general public, are also welcome.

Guest Editors

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Deadline for manuscript submissions

closed (9 April 2021)

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/58993

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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!

Editor-in-Chief

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