Special Issue

High-Impact Weather Events: Dynamics, Variability and Predictability

Message from the Guest Editors

High-Impact Weather Events are usually associated with severe thunderstorms, tropical and extra-tropical cyclones. This Special Issue welcomes papers that contribute to improving the knowledge about high-impact weather, such as:

- Studies addressing the dynamic aspects and predictability of High-Impact Weather Events, focusing on ensemble forecasting systems and convection-permitting models;
- Observational and model-based studies of tropical and extra-tropical cyclones and severe convective storms;
- Nowcasting techniques, using satellite, radar, lightning systems and other observations;
- Studies quantifying the effect of climate change on the characteristics of tropical and extra-tropical cyclones, and on drought frequencies;
- Studies addressing the predictability of compound events and the impact of climate change on the frequency of the compound events.

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About the Journal

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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