Special Issue

Severe Storm

Message from the Guest Editor

Severe storm or local storm refers to weather phenomena with spatial sizes ranging from meso-gamma scale, to microscale, to convective scale. These storms develop in one or combined forms of thunderstorms and squalls, hailstorms, and tornadoes, as well as cases such as rainstorms, windstorms, and snowstorms. All these storms are high-impact weather systems, and in some parts of the world they severe damage and loss of infrastructure and even life every year. Given the small spatial scales of severe storms, their predictability is expected to be lower than the synoptic- and planetary-scale phenomena. However, regional climatology and specific environmental factors relevant to some of these storms are quite clear. Improvements in our forecasts of severe storms can only be obtained through a better understanding of the dynamics and physical processes of their development. This Special Issue aims to summarize the frontiers of research regarding severe storms.

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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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