

Special Issue

Advances in Weather Prediction and Numerical Simulation

Message from the Guest Editors

In recent decades, great progress has been achieved in numerical weather prediction. Accurate forecasts can save lives, support emergency management, and prevent economic losses, promoting sustainable development of social economy. However, the numerical prediction and simulation of severe weather are challenging and difficult due to the small spatial and temporal scales. The aim of this SI is to present recent advances in weather prediction and numerical simulation, especially the application in predicting severe weather events. Both original research articles and reviews are welcome. Research areas may include:

- Numerical simulation of severe weather events, including torrential rainfall, hailstorms, tornadoes, etc.
- Analyses of the mechanisms of severe weather, such as the initiation of convection, the organization of convective systems, etc.
- Assimilation of observational data, such as satellite, weather radar, etc.
- Parameterization of physical processes, including cloud microphysical process, boundary layer process, land surface process, etc.

We look forward to receiving your contributions.

Guest Editors

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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