

Special Issue

Weather Research and Forecasting (WRF) Model

Message from the Guest Editor

The weather research and forecasting model is playing a key role in the NWP history of the 21st century. Its impact on meteorology and atmospheric science research is demonstrated by the increasing number of articles published in peer-reviewed journals during the last decade. From a NWP perspective, the progressive evolution from single to ensemble forecasting paradigms and the availability of new observation data bases—such as the increasing satellite products—are contributing to the development of new validation techniques. Moreover, in recent years the WRF model has provided new capabilities for different applications in hydrology, the emission and transport of aerosols, severe weather events or the regional climate. This Special Issue offers the opportunity to publish quality articles on WRF model from a broad perspective, including mesoscale processes; severe precipitation and wind episodes; data assimilation; physical parameterization schemes; probabilistic forecast; validation; regional climate or chemical, hydrological and atmosphere–ocean interactions.

Guest Editor

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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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