

Special Issue

Advances in Hydrometeorological Ensemble Prediction

Message from the Guest Editors

Changes in the global climate amplify the risk of hydrometeorological hazards, such as rainstorms, hurricanes, floods, droughts, landslides, storm surges, and heat/cold waves. Accurate and timely prediction of extreme hydrometeorological events is key to the risk management of hydrometeorological hazards. This Special Issue calls for original research or review papers that are related to any aspect of hydrometeorological ensemble prediction. Potential topics include but are not limited to:

- Ensemble prediction of extreme hydrometeorological events;
- Experimental/operational ensemble forecasting systems and services for meteorologic/hydrologic forecasts;
- Utilization of observational data from ground-based stations, radars, or satellites for hydrometeorological prediction;
- Data assimilation, machine learning, and big data applications in hydrometeorology;
- Calibration, validation, and uncertainty analysis of meteorological/hydrological models;
- Evaluation of numerical weather prediction model products, or driven hydrology or water resources products;
- Post-processing of meteorological/hydrological (re-)forecasts.

Guest Editors

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Dr. Hongbin Zhang

Deadline for manuscript submissions

closed (10 April 2023)



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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

Dr. Daniele Contini

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