



Advances in Mesoscale Numerical Weather Prediction and Its Applications (3rd Edition)

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Message from the Guest Editors

Dear Colleagues,

The two first volumes of our Special Issue “Advances in Mesoscale Numerical Weather Prediction and its Applications” were quite successful and became popular not only among authors but also among our readers. Therefore, we have decided to launch a third volume aiming to collect contributions that report the current state and advancements of the mesoscale numerical weather prediction models, including air–sea–land coupled models, forecast skill improvements, the impact of physical parameterizations on forecasts, and ensemble weather modeling, as well as applications related to data assimilation techniques, nowcasting methods, hydrometeorological modeling, renewable energy resources modeling, modeling of climate change effects, etc.

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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!

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