Special Issue

Data Assimilation for Predicting Hurricane, Typhoon and Storm (2nd Edition)

Message from the Guest Editors

We are interested in submissions on any of the topics listed below. Improvements and innovations may cover the NWP of TCs as well as the improvements obtained by applying existing or new types of remote sensing observations. Possible topics include (but are not limited to) ground-based radar, all-sky radiances, atmospheric motion vectors, and airborne reconnaissance mission collected observations. Manuscripts should clearly illustrate applications and results for the improvement of forecast skill for the TC structure prediction, TC track, and intensity.

- Advancements in remote sensing data assimilation technologies;
- Development of high-spatial-resolution models for TC structure and intensity (RI/RW);
- Development of probabilistic prediction methods for TC;
- Development of verification methods for TC;
- Application of artificial intelligence for numerical models in TC prediction;

Manuscripts may present original research or reviews of the state-of-the-art of the science, thereby providing context for the current research as well as the direction in which modeling and data assimilation for TCs should be moving for the future.

Guest Editors

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Deadline for manuscript submissions

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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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