

Special Issue

Tropical Cyclones: Observation and Prediction

Message from the Guest Editor

"Observations of tropical cyclones are essential to initialize and evaluate numerical weather prediction (NWP) models and to improve our scientific understanding of tropical cyclone lifecycle, structure, and processes. In this Special Issue, we invite original and review articles that use atmospheric and/or oceanic observations of tropical cyclones from a wide range of in situ and remote sensing platforms. These contributions may describe novel instrument platforms; new or improved techniques for collecting tropical cyclone observations; case studies of tropical cyclones that utilize observations; assimilation of new types of tropical cyclone observations into NWP models; and/or the use of observations to evaluate tropical cyclone NWP models or to develop new physical parameterizations appropriate for tropical cyclone environments. In general, contributions should highlight the unique and essential roles that observations play in furthering our understanding of tropical cyclones and driving improvements in their forecasting."

Guest Editor

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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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