Special Issue

Tropical Ocean-Atmosphere Interaction and Climate Change

Message from the Guest Editors

The ocean and atmosphere interact vigorously in the tropics through the exchange of heat and moisture. This interaction is essential in the changes in climate systems and climate modes such as monsoons, cyclones, and ENSO. Climate change includes changes in the tropical ocean–atmosphere interaction and is also influenced by the processes or feedbacks in the tropics. This Special Issue aims to present recent advances in the tropical ocean–atmosphere interaction and climate change, two highly interactive topics. It is important to clarify the key processes, mechanisms, and influences of the tropical ocean–atmosphere interaction and illustrate their roles in climate change by observations and model studies. Topics of interest for the Special Issue include, but are not limited to, the following:

- The processes and mechanisms of tropical ocean–atmosphere interactions;
- The prediction and projection of tropical climate modes (e.g., ENSO);
- Changes in tropical climate modes and their roles in global and regional climate change;
- The responses of monsoons and cyclones to global warming;
- The regional climate changes under global warming.

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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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