Special Issue

Numerical Modeling of Ocean-Atmosphere Interactions

Message from the Guest Editor

Ocean–atmosphere interactions represent the process of mutual influence, interaction and adaptation between motions of various scales, and these interactions play an important role in long-term weather and climate change, and are one of the most essential factors in ocean forecasting and weather prediction. Nowadays, numerical modelling also plays a very important role in the study of ocean–atmosphere interactions. Meanwhile, an increasing number of numerical models for different research objects and purposes have been developed, and numerical simulation continue to thrive. This Special Issue aims to develop and explore ocean–atmosphere modelling tools as well as techniques and applications related to ocean–atmosphere interactions. The topics of interest include, but are not limited to, coupled ocean–atmosphere numerical modelling and its application and prediction; the analysis of extreme weather processes; applications of artificial intelligence or machine learning in ocean–atmosphere numerical models; and an ocean–atmosphere environmental forecasting system.

Guest Editor

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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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