



Air-Sea Interaction: Modeling and Dynamics

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Deadline for manuscript submissions:

closed (15 March 2023)

Message from the Guest Editors

The goal of this research topic is to collect information on air–sea interactions in tropical ocean regions and how to improve the simulation and forecasting capabilities of extreme weather and ocean processes. We particularly welcome research with a focus on the following topics: air–sea interaction processes, boundary layer processes (such as air–wave, wave–current, and tide–surge interactions); optimization of key parameters of numerical models, simulation of extreme processes (such as tropical cyclones, extreme waves, storm surges) and their mechanisms; and the impact of climate change on atmospheric and oceanic extreme events. We also welcome research on the improvement of air–sea coupling models, the method of data assimilation, and the application of remote sensing data in these topics.

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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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