



Air-Sea Interaction

Guest Editor:

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Message from the Guest Editor

The topic of air–sea interaction has matured into an independent research field, entwining atmospheric science and physical oceanography. While small-scale air–sea interaction research focuses on the exchange of momentum, moisture, heat, and gases across the ocean–atmosphere boundary, large-scale air–sea interaction investigates the major climate modes of variability, such as the El Niño–Southern Oscillation, Madden Julian Oscillation, Indian Ocean Dipole, North Atlantic Oscillation, etc. Moreover, air–sea interaction research also finds applications in climate change studies, numerical weather prediction, fog and cloud microphysics, atmospheric aerosols, carbon cycle, electromagnetic ducting research, aviation, ocean navigation, biogeochemistry, and national security. In this context, this Special Issue intends to provide a platform to share the recent developments in these areas with a broader research community, by addressing the outstanding science questions in the field of air–sea interaction research.





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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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