

Special Issue

Air-Sea Interaction and Ocean Dynamics

Message from the Guest Editors

Air-sea interaction is one of the essential processes for ocean dynamics. Air-sea exchange of heat, vapor, particles, contaminants and momentum can affect ocean waves/currents, sea surface temperature, and seawater composition. Our understanding of air-sea interaction on ocean dynamics remains lacking or nebulous in many areas due in large part to incomplete fundamental knowledge, the large range of scales involved, the scarcity of measurements, and inadequate representation in models, such as the effects of air-sea heat and momentum fluxes on upper ocean turbulence, wind-wave generation and Langmuir circulation, and ocean biochemistry. In this context, this Special Issue is aimed at addressing the most outstanding issues in these areas in the hope of capturing the most up-to-date advancement of air-sea interaction science with a focus on ocean dynamics.

Guest Editors

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Dr. Fangda Cui

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Deadline for manuscript submissions

closed (20 August 2021)



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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

Dr. Daniele Contini

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