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Disentangling Atmosphere-Ocean Interactions, from Weather to Climate

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Deadline for manuscript submissions:
closed (15 December 2019)

Message from the Guest Editors

Dear Colleagues,

The scientific community has a growing awareness of the importance of atmosphere–ocean interactions for geophysical processes at various scales. The increasing availability of observational as well as reanalysis data and the recent advancements in numerical modelling are opening new frontiers of study for the coupled atmosphere–ocean system. Achievements in these fields provide an improvement in our understanding of multidisciplinary processes and eventual management and operational services, including weather forecast and early warning systems.

Example topics for papers in this Special Issue include but not limited to the following:

Air–sea interaction parameterizations and coupled atmosphere–ocean numerical modelling approaches;

Coupled atmosphere–ocean applications for coastal and offshore engineering;

Analysis of extreme met-oceanic events and their impacts on anthropic infrastructures;

Operational met-ocean modelling and monitoring;

Role of air–sea interactions in heat transport and storage;

Weather and/or climate impact on the ocean and feedback from the ocean to the atmosphere.

Dr. Davide Bonaldo
Prof. Chunyan Li
Guest Editors

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Special Issue

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Editor-in-Chief

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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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