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Air-Sea Interaction Processes during Severe Atmospheric and Oceanic Events

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Deadline for manuscript submissions:
closed (22 November 2022)

Message from the Guest Editors

We want to invite you to contribute to this SI dedicated to collecting investigations on interdisciplinary results based on the role of air-sea interactions during severe and extreme events in both the atmosphere and the ocean. The complex two-way feedback that occurs at the interface is one of the key elements that drives severe atmospheric and oceanic events. Interaction processes act over a wide range of spatial and temporal scales. These processes are mediated by characteristics of the interface that impact and modulate fluxes of momentum, mass, and heat between the atmosphere and the ocean. The description, observation and modeling of coupled systems, and of the physical processes connecting its components, are fundamental for understanding of severe atmospheric and oceanic events.

Examples of topics include but are not limited to the following:

air-sea feedback and impact on planetary boundary layer
numerical weather prediction approach
regional atmosphere-ocean climate modelling
satellite, in-situ, and laboratory observations
sea surface temperature and ocean heat content impact on atmospheric dynamics
sea storms and impact of wind-waves on the ocean and the atmosphere

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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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