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Air-Sea Coupling

Guest Editor:

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Deadline for manuscript submissions:
closed (30 September 2017)

Message from the Guest Editor

Dear Colleagues,

Air-sea coupling is one of the most important processes that can affect weather, climate, and atmospheric chemical composition. Air-sea exchange of heat, water vapor, and momentum can affect sea surface temperature and upper temperature stratification and can affect atmospheric boundary layer stability. Our understanding of air-sea coupling remains lacking or nebulous in many areas due in large part to incomplete fundamental knowledge, the scarcity of measurements, and poor representation in models, such as the effects of air-sea coupling on tropospheric cyclones, oceanic uptake and storage of carbon dioxide, and the role of air-sea interaction in climate dynamics, variability of atmospheric compounds and aerosols, ocean physics, and biogeochemistry. This Special Issue is aimed at addressing the most outstanding science questions/issues in these areas in hope to capture the most up-to-date advancement of air-sea coupling science.

Dr. Huiting Mao
Guest Editor

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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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