Special Issue

Atmospheric Processes Shaping Polar Climate

Message from the Guest Editor

The unprecedented decline of the Arctic sea ice between 2000 and the 2010s is an obvious indicator of ongoing climate change. There is growing evidence that a new state of the hydrometeorological regime is currently shaping under the rapidly changing conditions at the ocean surface in the marginal ice zones in the Atlantic and Pacific sectors of the Arctic Ocean. For this Special Issue, we invite contributions on a variety of aspects of recent changes in the Arctic physical environment. We encourage submissions addressing interaction between ocean, atmosphere, and sea ice with particular emphasis on possible feedbacks and on studies linking changes in the Arctic to the mid-latitudes. Submissions that focus on newly emerging consequences of sea ice reduction on cryospheric and biogeochemical processes and their implications are very much welcome.

Guest Editor

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Deadline for manuscript submissions

closed (5 August 2020)

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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

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