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Interactions between the Cryosphere and Climate (Change)

Guest Editor:

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Deadline for manuscript submissions:
closed (5 February 2021)

Message from the Guest Editor

Dear Colleagues,

Estimating the response of the global cryosphere to climate change as well as the response of the components of the climate system to changes in the cryosphere relies on an understanding of climate–cryosphere interactions and processes in different regions along with different spatial and temporal scales. This Special Issue invites contributions addressing all aspects of cold regions meteorology and the cryosphere interacting with the past, present and future climate system from both modeling and observations. Submissions from multiple approaches, i.e., past records, glaciers, ice caps, sea ice, permafrost, meteorological and geophysical observations, numerical modeling and downscaling methods aiming to advance the current knowledge of the feedbacks between the cryosphere and the climate system are encouraged. Interdisciplinary studies, as well as detailed process surveys, are highly welcome.

Dr. Renato R. Colucci
Guest Editor

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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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