



## The Changing Climate of the Arctic

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Deadline for manuscript  
submissions:

**closed (30 November 2022)**

### Message from the Guest Editor

Dear Colleagues,

This Special Issue of Atmosphere focuses on the changing climate of the Arctic that is specific to the state-of-the-art and advancements in both observations (satellite, field campaign, airborne, and in-situ) and numerical climate modeling for a better understanding of Arctic climate change to help on better prediction of future Arctic climate. The list of subjects includes recent advances in observations, data assimilation, and numerical modeling of Arctic climate change with detailed and advanced information on the atmosphere, hydrosphere, geosphere, biosphere, and cryosphere. The most interested studies would include (1) satellite data observations and applications in the analyses and prediction of Arctic climate change; (2) advances in numerical climate models for the forecast and hindcast of Arctic climate change; (3) advanced data assimilation methods for coupling observations with numerical models to reduce bias in the model prediction ; (4) sea ice and its change associated with Arctic climate change, and (5) advanced research in satellite remote sensing techniques and physical parameterizations and dynamical processes for Arctic climate modeling.





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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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**Journal Rank:** CiteScore - Q2 (*Environmental Science (miscellaneous)*)

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