



climate



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Cryosphere under Changing Climate

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The cryosphere plays a critical role in the global climate system. It embraces sea ice, ice sheets, ice shelves, glaciers, icebergs, snow cover, river and lake ice, permafrost and frozen ground, the Poles, and continental areas. It serves as the most direct and sensitive feedback process in the entire climate system.

The atmosphere and cryosphere are tightly linked. As the climate changes, so too does the cryosphere, which ultimately then feeds back upon the climate. Recently, with global warming, the melting of snow and ice has been sped up, causing sea level rise and coastal extreme events to become more severe.

This Special Issue “Cryosphere under Changing Climate” welcomes contributions about the monitoring or recording of the climate of cold regions and the cryosphere, modeling at different times, and spatial scales, especially inviting papers that focus on the interaction of the cryosphere with past, present, and future climates.



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Special Issue