



## The Vulnerability and Resilience of Water Flow and Storage in Cold Regions to Climate and Vegetation Changes

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### Message from the Guest Editor

Cold regions in high latitudes and high altitudes play an important role in controlling land-atmosphere interaction, climate variability, and sustaining water resources by storing in the form of snow and ice during cold months and releasing meltwater during warm months when the demand for water use is high. Hydrologic processes are rapidly changing in cold regions in response to climate and vegetation changes. Changes in snow and ice may provide positive feedback to the atmosphere and amplify the warming rates in cold regions as albedo decreases with snow and ice retreat under a warm climate. We cordially invite researchers and scientists to contribute to this Special Issue. We are particularly interested in, among others, studies that can:

- Improve our understanding of vulnerability and resilience to changes and variations in climate and vegetation across space and time scales;
- Provide diagnostic frameworks to explain why changes occur and what the underlying causes are; and
- Provide regional or seasonal specific sustainable and adaptive strategies to mitigate the effects of climate and vegetation changes and variations.





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