



## Earth Observation of Glacier and Snow Cover Mapping in Cold Regions

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Deadline for manuscript  
submissions:

**31 January 2025**

### Message from the Guest Editors

Glaciers and snow cover are core components of the Earth's cryosphere and key indicators for monitoring climate change, especially in cold regions. This Special aims to showcase recent research and progress in the application of Earth observation technologies for mapping and monitoring glaciers and snow cover in cold regions. Topics may cover anything from the basic estimation of glacial and snow variables to more comprehensive aims and scales. Therefore, multisource data fusion, multiscale methods, or studies focused on cryosphere monitoring are welcome.

Articles may address, but are not limited, to the following topics:

- Dynamic remote sensing monitoring of glaciers, snow cover and ice sheets;
- Analysis of spatiotemporal changes in glaciers, snow cover and ice sheets;
- Research on the relationship between the hydrological cycle and ice and snow;
- Extreme climate monitoring;
- Cryosphere;
- Differences in ice and snow between the North and South Poles;
- The impacts of climate change on glaciers, snow cover and ice sheets;
- Applications of machine learning and deep learning in the cryosphere





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