



## Remote Sensing of Glaciers and Ice Caps

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### Message from the Guest Editor

The state of glaciers and ice caps around the world are indicators of the climate and are therefore key parameters in the forecast of future climate and sea level. With the satellite era came the opportunity to monitor the glaciers on a regular basis and thereby derive more reliable time series. The many diverse remote sensing observations have led to studies and development of methods to determine the structure, state, variability, and change rates. Today several satellite and airborne missions, like ICESat, CryoSat-2, Operation Ice Bridge, and CryoVEx, have been primarily dedicated to the monitoring of the major ice caps and glaciers.

For this special issue I would like to invite the research community to contribute with articles within the area of space-, air- and land-based remote sensing of glaciers and ice caps. Topics could be, but not limited to:

- Glacier front retreat/advance
- Volume/mass change of ice caps and glaciers
- Glacier/ice cap outlines
- Surface velocity
- Bedrock topography
- Snow depth
- Albedo





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## Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

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