



Imaging Floods and Glacier Geohazards with Remote Sensing

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Message from the Guest Editors

Dear Colleagues,

Geohazards associated with the dynamics of the liquid and solid water of the Earth's hydrosphere, such as floods and glacial processes, may pose significant risks to populations, activities and property. Adverse weather, tsunamis, storm surges, sea level rise or even changes in land use (e.g. infrastructure projects or resource exploitation) may cause coastal, fluvial and surface-water inundations. Heavy snowmelt, ice jams and dam failure can lead to catastrophic flooding. Rock, snow and ice avalanches impacting glacial lakes can trigger outburst floods. Sea ice and icebergs may disrupt ship circulation along sea lanes worldwide.

Understanding how these geohazards occur, their severity, causes and types, and the damage they cause, helps to design and improve forecasting methods and risk mitigation approaches. By providing a spectrum of imaging capabilities, resolutions, temporal and spatial coverage, remote sensing plays a pivotal role in achieving these objectives.

This Special Issue of *Remote Sensing* aims to gather research articles and reviews on the use of satellite, aerial and ground-based remote sensing to image floods and glacier geohazards.





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Message from the Editorial Board

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