



Remote Sensing of Environmental Changes in Cold Regions II

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Message from the Guest Editors

Cold regions including the northern high latitudes, polar regions, and Tibetan Plateau are highly sensitive to global warming and are undergoing dramatic changes in ecological, hydrologic, and climatic processes.

This Special Issue will host papers focusing on, but not limited to, the following topics:

- Long-term monitoring of the dynamic changes of glacier, snow cover, permafrost, water bodies, vegetation and carbon emissions using multi-year and multi-source remote sensing data;
- Applying emerging remote sensing techniques (e.g. SmallSat, UAV, lidar, GNSS and near-nadir SAR imaging techniques) for enhanced mapping of cold land biophysical/geophysical parameters;
- Investigating the use of current and future satellite missions such as SMAP, SMOS, SWOT, OCO3 and NISAR in monitoring eco-hydrological and cryospheric parameters;
- Interpreting remote sensing data based on cloud computation and machine learning techniques for cold region studies;
- Monitoring, modelling, understanding and forecasting the interactions among earth system cycles under changing climate.





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Message from the Editorial Board

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