



remote sensing



Special Issue Reprint

Remote Sensing of Cryosphere and Related Processes

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This reprint aims to showcase the recent advances in remote sensing applications, share lifehacks and peculiarities when dealing with the cryosphere, present examples from different regions, and understand the spatiotemporal dynamics of the processes related to cold landscapes in a changing climate. Examples from Antarctica, Central Asia, and Alaska mountains cover a wide range of topics, from snow depth and buried ice surveys to debris cover on glaciers and rock glacier motion monitoring. Remote sensing has been used for decades, but has only recently become a routine technique for topographic products and detecting changes in the cold regions in a changing climate. Modern platforms and software allow researchers to carry out a fast and cost-effective mapping of the ground characteristics, both on the surface and underground, with the corresponding spatial and temporal resolution, even in remote areas.



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