



Multi-Scale Analysis for Detecting the Processes, Causes, and Impacts of Permafrost Change and of Disruptive Events

Guest Editors:

Dr. Michael Lim

Department of Mechanical and
Construction Engineering,
University of Northumbria,
Newcastle upon Tyne NE2 1XE,
UK

Dr. Gonalo Vieira

Centre of Geographical Studies,
Institute of Geography and
Spatial Planning, University of
Lisbon, 1600-276 Lisbon,
Portugal

Dr. Dustin Whalen

Natural Resources Canada,
Geological Survey of Canada, 601
Booth Street, Ottawa, ON K1A
0E8, Canada

Message from the Guest Editors

Permafrost landscapes are extensive in area and potentially dynamic in behaviour, producing a complex mix of landforms, materials and process interactions that are subjected to increasingly intense forcing by rising temperatures, changing weather patterns and declining ice seasons. The sensitivity of permafrost features and landscapes to these drivers leads to far-reaching implications. From dramatic erosion or subsidence threatening local infrastructure and habitats, to wide-scale hydrological, snow and ice changes, and potentially globally significant impacts on the flux of carbon-bearing material and greenhouse gases, there is a pressing need for a better understanding of past, present and future patterns of change. This Special Issue welcomes all contributions that consider the nature and rate of changes occurring in permafrost landscapes, the disruption of cryospheric, terrestrial, coastal or oceanic process dynamics or the resultant impacts utilising remotely sensed data at a range of spatial and temporal scales.

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Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S.
Geological Survey (USGS), USGS
Western Geographic Science
Center (WGSC), 2255, N. Gemini
Dr., Flagstaff, AZ 86001, USA

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Remote Sensing Editorial Office
MDPI, St. Alban-Anlage 66
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