

Special Issue

Research on Cold Regions Hydrology

Message from the Guest Editors

Climate change is impacting the fluvial, glacial and lacustrine hydrology and the soil-water-ice dynamics in parts of the northern hemisphere where the winter temperatures dip below freezing. Change in precipitation and evapotranspiration rates and freezing degree-days are inducing rapid changes in runoff, erosion, agricultural development, landscape evolution and impact on existing infrastructures. Shift in snow cover, soil thermodynamics and freeze-thaw cycling influence physico-chemical environmental processes and present unique challenges for ecosystem and infrastructure management and water quality sustenance. This special issue invites contributions in three thematic areas related to cold regions hydrology: 1) Snow, ice and surface water; 2) Soil, sediments and groundwater systems; and 3) Physical modelling and advanced learning processes.[...]

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/water/special_issues/cold_regions_hydrology

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST

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