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Modeling and Measurement of Cold Regions Hydrosystems and Their Evolution under Climate Change

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Message from the Guest Editors

Raised by the incontestable Arctic amplification of overall climate change, the fate of carbon, nutrients and metals in Arctic river, lake and soil waters is at the forefront of field and modelling studies. Arctic warming is anticipated to result in massive carbon (C) mobilization from permafrost soils to the atmosphere, rivers and lakes, thereby potentially worsening global warming via greenhouse gas (GHG) emissions. However, the control factors, timing and reality of C, nutrients and toxicants released from soils and sediments are still poorly understood, in part because element biogeochemical cycling in continental waters of cold regions linked to biotic activity at the ecosystem level and physical transport processes between ecosystem compartments are not sufficiently characterized.

This Special Issue addresses broad theoretical (modelling) and experimental (field and laboratory) studies on river, lake, surface, soil and ground water of cold regions' hydrosystems, and how ongoing climate change affects the hydrosystems of high-latitude[...]

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Message from the Editor-in-Chief

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