

## Special Issue

# Whither Cold Regions Hydrology under Changing Climate Conditions

### Message from the Guest Editors

Ongoing and future climate conditions have affected and will profoundly modify the hydrology of cold regions. Indeed, increasing air temperature and ensuing changes in the albedo of the cryosphere have already dramatically altered the water and environmental states of cold regions. Changes in seasonal snow dynamics, glacier mass-balance, river ice formation and decay, and soil freezing have induced and could further modify runoff patterns and seasonal shifts in runoff, redefining hydrological risks and water resource availability. The need to document and foresee these changes calls for renewed observational and modelling studies to better understand and quantify the ensuing effects of changing climate conditions on the hydrology of cold regions. This Special Issue calls for innovative contributions to this theme, focusing on the following aspects: effects of glacier mass balance changes on hydrology; changes in snow accumulation and ablation processes and their effects on hydrological variability; [...] For further reading, please follow the link to the Special Issue Website at: [https://www.mdpi.com/journal/water/special\\_issues/cold\\_hydrology](https://www.mdpi.com/journal/water/special_issues/cold_hydrology)

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### Guest Editors

Prof. Christophe Kinnard

Prof. Dr. Alain N. Rousseau

Prof. Stephen Dery

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### Deadline for manuscript submissions

closed (31 July 2021)



## Water

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*Water*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[water@mdpi.com](mailto:water@mdpi.com)

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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.

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### Editor-in-Chief

Dr. Jean-Luc PROBST

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR  
CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique  
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Toulouse, France

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