Special Issue

Observing and Monitoring the Subglacial Hydrological Environment in a Changing Climate

Message from the Guest Editors

Subglacial water is generated by basal sliding of ice and melting casued by geothermal heat flux. These subglacial sources are often supplemented seasonally by surface-derived meltwater that reaches the bed via crevasses and moulins. Increased surface melting of Earth's ice masses, as mean global temperature has risen over recent years, has led to an expansion and enhancement of water flux through the subglacial environment with important implications for the dynamic behaviour of ice masses, and thus their contribution to global sea level, as well as sediment and nutrient fluxes to fjords and coastal oceans. Although the subglacial hydrological environment is very difficult to observe directly, new observations and models of bed topography and substrate properties, high temporal and spatial resolution satellite-derived ice velocity data, and new biogeochemical monitoring methods, have opened up novel research avenues. This Special Issue of *Water* calls for innovative research papers that will advance our knowledge and understanding of the subglacial hydrological environment and its broader influence under a changing climate.

Guest Editors

Dr. Andrew Sole

Dr. Stephen Livingstone

Dr. Jon Hawkings

Deadline for manuscript submissions

closed (1 October 2019)

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Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

mdpi.com/journal/water

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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
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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