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Permafrost and Water: Interactions of the Frozen and Cryotic State in Permafrost and the Active Layer. How Do We Understand It Today?

Guest Editors:

Dr. Wojciech Dobinski

Institute of Earth Sciences,
Faculty of Natural Science,
University of Silesia in Katowice,
ul. Będzińska 60, 41-200
Sosnowiec, Poland

Prof. Mauro Guglielmin

Department of Theoretical and
Applied Sciences, University of
Insubria, Via J.H. Dunant, 21100
Varese, Italy

Prof. Dr. Dongliang Luo

Northwest Institute of Eco-
Environment and Resources,
Chinese Academy of Sciences,
Beijing, China

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Message from the Guest Editors

Dear Colleagues,

Permafrost means a constantly frozen medium. What is the state of research on cryotic permafrost? By what methods can it be investigated? What proportion does it constitute in comparison to traditional, frozen permafrost, on a regional and global scale, and what types of threats does it cause? Those issues are almost unknown and constitute one of the basic challenges of permafrost studies. The second problem is related to frozen water: ice. Here, too, the question of an interesting distinction arises: Can ice-free permafrost exist? What does the term dry permafrost mean? (Is the definition of 148 in Everdingen's permafrost glossary correct?) Can ice be called dry water? How does it compare to other frozen mediums?

The aforementioned issues are crucial for a correct understanding of the whole topic of permafrost, and especially its relationship with water in various forms. This research area seems to be rather neglected, but its broader development in this Special Issue may also benefit mainstream research on permafrost.



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Special Issue



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Editor-in-Chief

Dr. Jean-Luc PROBST

Laboratory of Functional Ecology and Environment, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, France

Message from the Editor-in-Chief

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Contact Us

Water Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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