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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?

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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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Message from the Editor-in-Chief

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