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Isotope Fingerprints of Precipitation in Groundwater, Lakes and Rivers

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Message from the Guest Editors

The replenishment of surface waters and groundwater occurs predominantly by precipitation. Recent climate change has also caused variations in the amount of precipitation and their isotopic composition. Lack of precipitation can cause deterioration of surface water discharges and decrease of groundwater levels what can lead to water scarcity for both human consumption and ecosystem needs. On the other hand, an extreme amount of precipitation can cause problems such as flooding, etc. Variations in the isotopic composition in precipitation are reflected in the isotopic composition of groundwater and surface waters (rivers and lakes). In this way, water isotopes as natural tracers allow us to define groundwater and surface waters (spatial and temporal) recharge catchments. In addition, isotope composition in all three water body types will help detecting any change in these inter-dependent systems caused by climate change, anthropogenic activities, or natural disasters such as volcanic eruption, regional fires, etc.

[...]

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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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