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Catchments as Observatories of the Hydrological and Biogeochemical Functioning of the Critical Zone

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Message from the Guest Editors

Catchments are geographic, geomorphologic and hydrologic unities, today recognized to be relevant natural infrastructures for supporting the development of new research on the critical zone and the management of water resources and soil protection at the continental scale, as well as at regional or local scales. A better understanding of the mechanisms and a better estimation of mass balances at the scale of catchments requires us to set up long-term surveys to take into account the recurrence of dry and humid periods. This Special Issue calls for innovative papers:

- to show the advances in the coupling of hydrological, biogeochemical and/or ecological approaches.
- to show how to survey “catchment pulsation” using continuous or high-frequency measurements .
- to determine the respective contribution of climate change and anthropogenic activities on interannual fluctuations and the long-term trends in hydrological and biogeochemical parameters measured in the river systems.
- to show how to use integrative modelling approaches to better simulate the riverine fluxes of dissolved and particulate elements, originating from natural or anthropogenic sources.

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Message from the Editor-in-Chief

The relevance of water in human development and sustaining life, fuels general and scholarly interest in the world's water resources. A better understanding of all aspects of water and its relation to food supply, energy production, human health, and the functioning of ecosystems is key in managing this precious resource in a sustainable, efficient and equitable manner. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications. We ensure a critical review process and a quick turnaround between submission and final decision.

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