Special Issue

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

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.

Guest Editors

Dr. Anne PROBST

ECOLAB, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, campus ENSAT, Auzeville Tolosane, France

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

Deadline for manuscript submissions

closed (31 October 2020)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/20391

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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