



Evolution of the Hydrological Regime in Relation to Climate Change

Guest Editors:

Dr. Xi Chen

Dr. Rafael J. Bergillos

Prof. Dr. Xiaojun Wang

Deadline for manuscript
submissions:

closed (30 September 2023)

Message from the Guest Editors

Climate change impacts on hydrological systems can provide guidance for water resources management. By investigating watersheds under climate change, new knowledge about hydrological systems can be developed. In the era of Big Data, the availability of climatic and hydrological data is increasing, which provide an opportunity to explore new relationships between hydrological regimes and climatic drivers. According to the Budyko framework, water partitioning from precipitation to runoff and evaporation in watersheds is primarily controlled by climate. Given continuous climate change, it is expected that hydrological systems will correspondingly evolve. This Special Issue present the latest evidence of the co-evolutionary relationship between climate and hydrological systems. We invite authors to submit research articles with topics related to the following key points:

- Comparison of hydrological processes across different climatic regions
- Data-guided investigation of hydrological dynamics in watersheds under climate change
- Hydrological models with representations of changing hydrological regimes, considering the impact of climate change





water



an Open Access Journal by MDPI

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (Water Science and Technology)

Contact Us

Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/water
water@mdpi.com
[X@Water_MDPI](https://twitter.com/Water_MDPI)