



water

an Open Access Journal by MDPI



Climate Change Impacts on Hydrological Processes and Water Resources of Local Watersheds

Guest Editor:

Dr. Young Gu Her

Agricultural and Biological
Engineering Department,
University of Florida, Homestead,
Florida (33031), USA

Deadline for manuscript
submissions:

closed (31 March 2022)

Message from the Guest Editor

Air temperature is projected to increase in the future due to greenhouse gases accumulated in the atmosphere, and such a change is expected to alter rainfall patterns with significant implications on hydrological processes and water resources. The potential impacts of projected climate change may be significantly different depending on spatial scales. Small local watersheds whose hydrological responses tend to be dominated by direct runoff may more quickly and directly react to changes in rainfall patterns. Besides, many water resources development and management are carried out at local watershed scales. However, such scales have not been a primary focus of climate change impact studies presumably due to the discrepancy between the spatial resolutions of climate and hydrological modeling and associated uncertainty. The small spatial scale analysis of climate change impact requires detailed information on watershed management practices as well as the improvement of climate projection accuracy and precision. [...]

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/water/special_issues/climate_hydrological_processes



[mdpi.com/si/59132](https://www.mdpi.com/si/59132)

Special Issue



water



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST

Laboratory of Functional Ecology
and Environment, Centre
National de la Recherche
Scientifique (CNRS), University of
Toulouse, Campus ENSAT,
Auzeville Tolosane, 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, St. Alban-Anlage 66
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)