Special Issue

Climate Change and Hydrological Processes

Message from the Guest Editors

In recent times, the apparition and intensification of extreme events has aggravated water availability and quality. Drought episodes intensify water scarcity. Also, rainfall intensity or frequency has increased in different regions worldwide. So evaluating and forecasting the apparition of extreme events and mitigating their effects has become necessary not only as research topics but especially for policymakers and decision factors to avoid or mitigate the inherent effects of such events. In this context, the main topics of this Special Issue are as follows:

- Influence of climate changes in the water runoff process;
- Future projection of flash-flood susceptibility according to climate change scenarios;
- The variability of the maximum river discharges according to climate change projections;
- The impact of climate change on the frequency and severity of droughts;
- Risk and uncertainty in detecting drought events;
- Quantitative and qualitative analysis of extreme events:
- Hazards and risks in drought assessment;
- Integrating environmental economics into flood/drought risk management;
- Modeling the correlation between climate variables and hydrological processes.

Guest Editors

Prof. Dr. Alina Barbulescu

Dr. Romulus Costache

Dr. Cristian Ştefan Dumitriu

Deadline for manuscript submissions

closed (20 February 2025)



Water

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mdpi.com/si/209638

Water Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 water@mdpi.com

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About the Journal

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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