



water

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Drought Occurrences, Characteristics, Impacts and Mitigations

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closed (28 March 2024)

Message from the Guest Editors

Dear Colleagues,

Droughts occur when the available water is insufficient to sustain ecosystems, support agricultural productions, and/or maintain socioeconomic developments due to below-average precipitations, above-normal temperatures, significant increases in water consumptions and decreases in water yields, and/or water contaminations. For a given drought event, it may extend from a locality to a region or even a continent and can last days, months or years. This Special Issue calls for papers that study the occurrences, characteristics, impacts, and mitigations of droughts at various spatiotemporal scales using observations, simulations, and/or data analytics (e.g., artificial intelligence (AI) and machine learning (ML) algorithms). The example topics include but are not limited to: (1) contributions of climate change versus human activities to droughts; (2) impacts of droughts on ecosystems and communities; (3) adaptative and mitigative strategies to droughts; (4) water shortage due to contaminations; and (5) models, algorithms, and decision-support tools for assessing or predicting the severity and risk of droughts.



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Special Issue



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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.

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