Special Issue

Variations of Precipitation Extremes in Arid Regions

Message from the Guest Editors

Global averaged observations indicate an increase in frequency and intensity of precipitation extremes, and changes in precipitation extremes are among the most relevant consequences of global warming, yet there is little consensus on observed and expected changes in arid regions. In arid regions, precipitation extremes may lead to increased risk of flooding or drought, and cause a number of casualties, as well as a tremendous amount of social and financial loss, due to infrastructure is less well-adapted to more extreme events. Climate projections for the 21st century show continued intensification of precipitation extremes in the world's arid regions. As a result, serious damage is expected in the arid regions, and even small increases in the intensity of extremes can have strong impacts. This Special Issue will include, but not limited to: historical variability and trends in precipitation extremes and their associated mechanisms, future changes in precipitation extremes, application of methods for the evaluation of precipitation extreme events, implications of changes in precipitation extreme events, and impacts on water resources and human–environment systems.

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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

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