Special Issue

Climate Change Uncertainties in Integrated Water Resources Management

Message from the Guest Editors

With the increase in climate change around the world, the shifting of populations in water-stressed regions, and continued economic development, there is a rapid depletion of surface water and aquifer systems to compensate for the reduction of available freshwater supplies in transboundary river basins. For IWRM, it is critical to balance the increased demand in water-stressed river basins to ensure the sustainability of the available freshwater supplies for all stakeholders sharing a river basin in times of uncertainty. This article aims to show how climate change uncertainty affects IWRM planning for sustainability in transboundary river basins. Since there are multiple interacting variables in play at any specific time, such as economic growth, societal demands, natural systems alterations, and policy decisions, the challenge becomes how to construct a successful IWRM set of policies to effectively solve climate change dilemmas while providing water sustainability for all stakeholders sharing a transboundary water basin in order to prevent possible conflict due to water shortages.

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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.

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