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## Modeling and Analysis of Hydrological Responses to Climate Change or Variability

Guest Editor:

**Dr. Maria C. Neves**

Department of Earth, Marine and Environmental Sciences (DCTMA), University of Algarve, Faro, Portugal

Deadline for manuscript submissions:

**10 February 2025**

### Message from the Guest Editor

Dear Colleagues,

This special issue focuses on advancing our understanding of the response of hydrological systems to the escalating impacts of climate change on global water quantity and quality. We call for contributions whose primary emphasis is on addressing uncertainties arising from the increasing non-stationarity of weather patterns and hydrological variables, as well as studies focussing on the responses to the growing frequency and intensity of extreme weather events, particularly floods and droughts.

This special issue seeks contributions to improve our understanding of hydrological systems in the face of these challenges, calling for integrated investigations across all domains of water research, including surface and groundwater hydrology, ecohydrology, water management, and water governance. Authors are encouraged to propose innovative methodologies and present findings that contribute to improve the present capability to grasp the complex dynamics of hydrological systems in response to natural and anthropogenic climate variability and climate change.



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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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Water Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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