

## Special Issue

# Characterization and Monitoring of Coastal Hydrological Environment for Assessing the Impact of Seawater Intrusion on Coastal Aquifers

### Message from the Guest Editors

Climate change and environmental and anthropic modifications impact the hydrological cycle, water resources, and ecosystems, posing great challenges for global water and ecosystem management, especially where the ecological equilibria are strongly dependent on groundwater–surface water interactions. In coastal aquifers, seawater intrusion is a worldwide problem that greatly restricts the social and economic development of coastal areas. It is caused by natural processes but significantly worsened by aquifer overexploitation for irrigation and drinking water supply, land subsidence, sea level rise, and climate changes, which contribute to the reduction in groundwater natural recharge. This Special Issue calls for any contributions on the characterization and monitoring of surface water and groundwater resources and the connected ecosystems in coastal areas, with a focus on the impact of seawater intrusion on the quantitative and qualitative statuses of these resources.

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### Guest Editors

Dr. Francesco Ronchetti

Dr. Marco Doveri

Dr. Marco Pola

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### Deadline for manuscript submissions

18 October 2025



## Hydrology

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Impact Factor 3.2  
CiteScore 5.9



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## About the Journal

### Message from the Editor-in-Chief

*Hydrology* is the study of the waters of the Earth. *Hydrology* has close ties with hydraulics, hydrogeology and the multiple sciences that study the atmosphere, the land surface, the soil and the subsoil, and ranges from complex problems of risk, forecasting and optimization of water resources to interactions with ecological, urban, social and economic systems. The purpose of *Hydrology* is then to provide a journal where research results and real-world problems can be presented and discussed in order to bridge the traditional gaps between the academic world and the professionals and decision makers. Therefore, *Hydrology*, invites authors to submit their original theoretical, field, experimental, and numerical studies on hydrology with strong emphasis on multidisciplinary approaches and interdisciplinary topics, which cross the typical boundaries of our science.

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### Editor-in-Chief

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JCR - Q2 (Water Resources) / CiteScore - Q1  
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