

Special Issue

Advances in Nature-Based Solutions for Hydrometeorological Risk Reduction

Message from the Guest Editors

Nature-based solutions (NBSs) for hydrometeorological risk reduction are increasingly being recognized for their potential in managing the complex interaction between water, the climate, and ecosystems. NBSs, such as floodplain restoration, reforestation, or wetland restoration, synergise with natural processes to mitigate floods, droughts, and erosion. This Special Issue focuses on NBSs for hydrometeorological risk reduction and provides a platform for innovative research, practical case studies, and methodological approaches that advance understanding and implementation of effective and economically viable solutions across the dimensions of risk reduction, ecosystem services, and human well-being. We welcome manuscripts that link the following themes:

- Studies on NBSs for addressing various hydrometeorological hazards, bridging science and practice;
- Ex-post and ex-ante evaluations of NBSs for hydrometeorological risk reduction;
- Data collection and modelling aspects concerning NBSs for hydrometeorological risk reduction;
- Integrating risk reduction, environmental, and socio-economic benefits of NBSs;
- Cost-effectiveness of NBSs.

Guest Editors

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Deadline for manuscript submissions

closed (28 February 2026)



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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.

Editor-in-Chief

Prof. Dr. Ezio Todini

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Author Benefits

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JCR - Q2 (Water Resources) / CiteScore - Q1
(Oceanography)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.9 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).