Special Issue

Flood-to-Drought Transition Phenomena

Message from the Guest Editors

Recently, a new threat has been observed: the rapid transition from drought to flood and vice versa, as discussed in the IPCC 2023 report. These sudden shifts cause significant losses across various economic sectors. To this end, original interdisciplinary articles highlighting new ideas, approaches, and innovations in the analysis of various types of droughts and floods are welcome. This Special Issue will welcome research articles and review papers that include, but are not limited to, the following themes:

- Flash floods and droughts—analyses, modelling, prodictions, risk analyses;
- Factors determining transitions from flood to droughts and droughts to floods;
- Spatio-temporal analysis of floods and/or droughts;
- Influence of floods and/or droughts dynamics on the environment, humans, industry, and agriculture;
- Influence of climate change and human activities on flood-to-drought dynamics;
- Modelling and predictions of transitions of floods to droughts and droughts to floods;
- Risk analyses of flood and/or drought dynamics;
- Modern techniques for measuring the transitions of floods to droughts and droughts to floods.

Guest Editors

Dr. Andrzej Walega

Department of Sanitary Engineering and Water Management, Faculty of Environmental Engineering and Land Surveying, University of Agriculture in Krakow, 31-120 Kraków, Poland

Dr. Tommaso Caloiero

National Research Council of Italy, Research Institute for Geo-Hydrological Protection (CNR-IRPI), 87036 Rende, CS, Italy

Deadline for manuscript submissions

closed (30 June 2025)



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Hydrology Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 hydrology@mdpi.com

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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

Italian Hydrological Society, Piazza di Porta San Donato 1, 40126 Bologna, Italy

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.7 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2025).