



Flood-to-Drought Transition Phenomena

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 Krakow, 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:

30 June 2025

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, predictions, 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.

