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Hydrological Extremes in a Warming Climate: Nonstationarity, Uncertainties and Impacts

Guest Editors:

Dr. Rajesh R. Shrestha

Research Scientist, Environment and Climate Change Canada, Watershed Hydrology and Ecology Research Division, University of Victoria, Victoria, BC V8P 5C2, Canada

Dr. Mohammad Reza Najafi

Department of Civil and Environmental Engineering, Western University, Ontario, ON N6A 3K7, Canada

Deadline for manuscript submissions:

closed (31 January 2022)

Message from the Guest Editors

This special issue will provide a platform for research that will assess the impacts of historical and projected climate change on hydrologic extremes. We seek both application studies and methodological studies that focus on hydrological extremes (peak- and low-flows) and associated risks (floods, droughts). The topics covered by this special Issue will include but not limited to the following:

Analysis of historical variability and trends in streamflow extremes (e.g., peak flow, low flow, timing) and teleconnections to hydroclimatic drivers

Model based studies on future changes in hydrologic extremes and the role of internal variability and anthropogenic forcings

Development and application of nonstationary methods for the evaluation of hydrologic extreme events

Evaluation of uncertainties of extreme value projections

Methods to quantify flood and drought risks

Implications of changes in hydrologic extreme events on water resources management









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Message from the Editor-in-Chief

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