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Historical Flood Analysis: Climate Indices, Triggering Factors and Induced Damage

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Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

Due to the scarcity of systematic observations of maximum flows in terms of their length and accuracy, historical information is a valuable supplement to data sets. Historical flood data are obtained using paleohydrological techniques, which have now made spectacular advances in accurately determining the age of floods, in quantifying the magnitude and dynamics of paleoflood events, and in integrating historical and paleoflood (both often called non-instrumental) data into various modeling procedures for risk assessment.

The visible climate change which manifests mostly by the increase in the magnitude and frequency of the extreme phenomena poses new challenges for hydrologists. It is believed that historical and paleofloods were harsher than what we experience nowadays but may be the same or even smaller when compared to those in near future. Therefore, the reconstruction of the past floods can help with the creation of more robust adaptation policies for the future climate crisis.

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Message from the Editor-in-Chief

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