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Floods and Climate

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Deadline for manuscript submissions:
closed (31 July 2019)

Message from the Guest Editors

The awareness that the radiative effects of recent anthropogenic changes in atmospheric composition are expected to cause climate changes has put into discussion the basic paradigms of traditional approaches until now followed by hydrologists and water resources engineers: the steadiness and randomness of flood processes bounded at catchment scale. A number of scientists and researchers are emphasizing the necessity of enlarging the approach to estimate flood magnitude and frequency, including global deterministic processes, spatial and temporal large-scale circulation patterns, and global climate mechanisms.

This enlargement of the view poses a number of challenges, since the prediction of future changes of the precipitation regime in continental regions remains uncertain, especially for extreme events such as floods. This Special Issue intends to collect scientific contributions exploring approaches for frequency and magnitude flood predictions under climate change, projection uncertainty assessment, and the identification of successful adaptation, mitigation, and risk management policies for climate change.

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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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