



Climatic Change Impact on Hydrology

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Message from the Guest Editors

Dear Colleagues,

Ongoing and future climate change will impact water resources worldwide and redefine risk levels associated with hydrological extremes. Climate change impacts on catchment hydrology are likely to display strong regionalism, due to both spatially-variable climate forcing and the often unique physiographic characteristics of individual catchments. Understanding and predicting the hydrological response of catchment to climate change under different climate regimes, and elucidating the role of physiographic factors or 'catchment structure' (topography, geology, geomorphology, etc.) in mediating this response, thus represent active research areas in hydrology. This Special Issue welcomes contributions related to climate change impacts on hydrology, including but not limited to the following topics:

- Diagnostics of streamflow-climate relationships from historical observations
- Model-based projections of streamflow variability in response to climate change
- Changes in flood and baseflow characteristics in response to historical and projected climate change
- Influence of catchment structure and climate type on the catchment

