



The Impact of Climate Change on Water Resources

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Message from the Guest Editors

Dear Colleagues,

Climate change is leading to water scarcity in many regions due to a decline in heavy and erratic rainfall, flooding, prolonged droughts, changes in the water cycle, and other mechanisms that dependent on it. Groundwater is then the main resource in these regions; it is characterized by very low renewal rates and is extremely sensitive to climate change.

The depletion of water resources has been the subject of several climatological, hydrological, and hydrogeological studies, which have shown that the status of the resource mainly depends on the internal architecture of aquifers, precipitation, and exploitation, which are mainly controlled by climate change. Therefore, it seems essential to understand the process and phenomena controlling the response of aquifer systems that are exposed to these global changes.

The objective of this Special Issue is to contribute to analyzing the relevance of new technologies of data acquisition (hydrogeological data and remote sensing data), interpretation, and processing, in order to better elucidate the impact of climate change on water resources.

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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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