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New Insights in Climate Change Effects on Hydrological Cycle and Water Resources Management

Guest Editors:

Dr. Yulong Zhong

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Dr. Peng Yang

Deadline for manuscript submissions:
closed (3 June 2024)

Message from the Guest Editors

Dear Colleagues,

The hydrological cycle processes such as precipitation, evapotranspiration, water storage changes, and runoff, plays a critical role in maintaining the availability and quality of freshwater resources. However, altering climate patterns are disrupting this balance, leading to challenges for water resources management worldwide.

In this Special Issue, we are looking for original scientific contributions on the hydrological cycle and water resources management, with topics including but not limited to contributions of climate change to the hydrological cycle, changes of hydrological variables, GRACE application in hydrology, impact of hydrological drought and flood, vegetation phenology and ecohydrological effects, meteorological and hydrological drought evolution, advances in hydrological forecasting, monitoring of groundwater storage, remote sensing of climate extremes, and new perspective from SWOT satellite.

In addition, we dedicate this Special Issue to Prof. Jianyu Liu, who died of cancer in June 2023. He had organized a Special Issue titled "The Water Cycle and Climate Change", https://www.mdpi.com/journal/atmosphere/special_issues/Wate

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Editor-in-Chief

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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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