

Special Issue

The Water Cycle and Climate Change

Message from the Guest Editors

The global climate has experienced a dramatic change in recent decades, a phenomenon known as global warming. Climate change intensifies the global and regional water cycle, leading to significant changes in precipitation, evapotranspiration, streamflow, and water storage. Understanding the water cycle change and its causes at different spatiotemporal scales is crucial for climate change assessments and water resources management. However, the mechanisms of water cycle change have not been fully understood yet. It is important and necessary to quantify the impacts of climate change, as well as other anthropogenic factors on the water cycle, such as streamflow, evapotranspiration, floods, and drought. This Special Issue provides a platform for studying the water cycle and its response to climate change. We encourage research manuscripts to focus on the following (not exclusive) topics: (1) Contributions of climate change to the water cycle; (2) Streamflow simulation and attribution; (3) Floods and drought change and mechanisms; (4) Anthropogenic climate change detection in the water cycle; (5) Predictions of the future hydrological change.

Guest Editors

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Deadline for manuscript submissions

closed (21 October 2022)



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About the Journal

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!

Editor-in-Chief

Dr. Daniele Contini

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