Special Issue

The Hydrologic Cycle in a Changing Climate

Message from the Guest Editors

The hydrological cycle is the continuous movement of water in the Earth's hydrosphere. It is continuous process that consists of atmospheric, surface, and groundwater movement. The changing climate directly affects the drivers and components of the hydrological cycle (evapotranspiration, water vapor concentrations, clouds, air temperature, precipitation patterns, surface runoff, stream flow patterns, etc.). In this Special Issue, we invite all colleagues to contribute papers on new insights into any type of process of the hydrologic cycle, its response to climate change, interactions between its components, and many more topics. Research related to any aspect of observations or modelling of the hydrological cycle is welcome, including new or interdisciplinary approaches, feedback processes, various hydro-meteorological phenomena, the human role in the hydrologic cycle, or other topics that improve our understanding about changes in the hydrologic cycle. Review papers will also be considered.

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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

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