

Special Issue

Climatological and Hydrological Processes in Mountain Regions

Message from the Guest Editors

With respect to weather/climate and their effects on water resources, mountain regions are characterized by complex spatiotemporal patterns due to the heterogeneous topography and the often nonlinear responses of snow- and ice-dominated regions to a changing climate. We invite you to contribute an article to this Special Issue by reporting on monitoring and modeling studies that provide new insights into climatological and hydrological processes in mountain regions. We thereby encourage research including (but not limited to) studies on the development and/or application of innovative modeling techniques, on regionalization and scaling issues in climatology and hydrology, on land surface–atmosphere interactions as well as on energy and water fluxes in different subsystems of the atmosphere/hydrosphere. Articles on human–climate and human–water interactions as well as on global-change-related alterations in the climate and water systems are also highly encouraged.

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Deadline for manuscript submissions

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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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