Special Issue

Atmospheric Rivers and Extreme Rainfall Events: Recent Advances and Future Directions

Message from the Guest Editors

Atmospheric rivers (ARs) have experienced great notoriety in the last decade, attracting a great deal of attention from the scientific and operational communities. ARs play a prominent role in the hydrological cycle, as well as in the redistribution of energy on a planetary scale. Recently, it has been shown that most ARs have a positive impact, and they account for a substantial part of the moderate precipitation in different regions of the planet, especially along the west coast of the continents and adjacent mountain ranges. A few ARs, however, may result in extreme precipitation events when the enormous amount of moisture that they transport from their sources is subject to intense orographic or forced uplift. These kinds of phenomena are characterized by their high social and economic impact.

This Special Issue welcomes all papers related to precipitation formation in AR events and their attending impacts. Case studies, climatologies, observations, and modeling studies are invited to participate. For further reading, please visit the *Special Issue website*.

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In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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