

Special Issue

Climate Change Impact on the Forest Hydrological Cycle

Message from the Guest Editors

Forests are not only famous carbon sinkholes but also critical in water dynamics. This Special Issue aims at recent advances in climatology with impacts on the hydrological cycle. Especially, highlighting the relevance of the forest in the physical, chemical, and biological processes/cycling of climate change. In particular, we are seeking new insights into hydrological dynamics in the forest ecosystem under a warmer climate. Further, studies such as the long-term interception observation; hydro-climatological modeling; forest water balance modeling and observation under severe meteorological conditions; biogeochemistry modeling and field observations; photosynthesis and biomass production under severe meteorological conditions; new models for canopy rainfall interception that can simulate different atmospheric and meteorological conditions; strategies to mitigate the impacts of climate change on the hydrology and biogeochemistry balances in different forest ecosystems; and energy, evapotranspiration, and water balance in forests based on Eddy covariances and Bowen ratios, among other possibilities, are welcome in this Special Issue.

Guest Editors

Dr. Carlos Rogério Mello

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Deadline for manuscript submissions

closed (15 December 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

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