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Interactions of the Terrestrial Hydrologic, Energy, and Biogeochemical Cycles

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Message from the Guest Editors

The terrestrial hydrologic, energy, and biogeochemical (HEB) cycles are intrinsically coupled via non-linear processes acting across a number of space and time scales. In the past, considerable progress has been made in characterizing the different cycles utilizing in situ and remotely sensed observations and models. Recently, strong focus has been placed on integrating the HEB cycles in a systems theoretical and experimental approach accounting for the non-linear, two-way feedbacks across different terrestrial compartments from groundwater across the land surface into the atmosphere including also human activities. This Special Issue solicits contributions from observational and modeling studies, which advance our understanding of the coupled HEB cycles and improve our models and predictions including uncertainty estimates. Special focus is placed on novel data analytics and assimilation technologies to identify, e.g., long and short range correlations of non-linear processes and merge efficiently models with observations.



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Message from the Editor-in-Chief

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.

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