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New Challenges in Terrestrial Water Storage Estimation

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Message from the Guest Editor

Accurate knowledge of terrestrial water storage (soil moisture, groundwater, snow and surface water) is crucial to improve understanding of the terrestrial water cycle, water scarcity and land-atmosphere interaction. Remote sensing observations and land surface/hydrology models advanced ability to assess the availability of water and climate/anthropogenic influences. The challenge is the coarse spatiotemporal resolution and high uncertainty of terrestrial water storage estimates. I would like to invite international research communities to discuss the benefits, limitations and potential improvements of current and upcoming satellite datasets and models and to submit their developments. The Special Issue's topic include:

- Remote sensing technique and model simulation for terrestrial water storage
- Application of water resource assessment, climate variability and natural hazard
- Forecast and hindcast of water storage estimates
- Downscaling and time series reconstruction
- Data processing technique
- Data fusion of remotely sensed observation to improve model simulation accuracy
- Land-atmospheric interactions on terrestrial hydrology



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Special Issue



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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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