



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





water



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Message from the Editor-in-Chief

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