Special Issue

Remote Sensing and Modelling of Water Storage Dynamics from Bedrock to Atmosphere

Message from the Guest Editors

Earth observation satellite missions provide invaluable global-to-regional estimates of hydrologic variables from atmosphere to lithosphere.Despite the increasing interest in using remote-sensing techniques for subsurface hydrology, its benefits need to be realized for monitoring vegetation, surface, and root-zone soil water storage, as well as groundwater storage from space. Therefore, the goal of this Special Issue is to demonstrate the contribution of satellite observations, and physical, conceptual, and statistical modeling techniques for estimating these water-storage components and their changes from local to global scales. Contributions introducing the latest developments in terms of new sensors and satellite missions that will be available in the near future, as well as those addressing the integration of remote-sensing products with surface and groundwater process models, including techniques for data assimilation, are particularly invited. Contributions dealing with all components of water storage between atmosphere and bedrock are welcome, and may include in situ measurements or nonremotely sensed datasets for parameter estimation at various spatial and temporal scales.

Guest Editors

Prof. Dr. Ehsan Forootan

Dr. Carsten Montzka

Dr. Thomas Jagdhuber

Prof. Dr. Vagner Ferreira

Deadline for manuscript submissions

closed (15 October 2023)

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

Editor-in-Chief

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