Special Issue

Analysis of Groundwater and Total Water Storage Changes Using GRACE Observations

Message from the Guest Editors

Total water storage (TWS) has become a key variable for terrestrial surface-atmosphere interaction. As one of the TWS components, groundwater storage (GWS) represents the largest source of freshwater storage in the hydrological system. GWS is one of the most important sources for irrigation and drinking water. Understanding the global scale of the GWS has become possible due to advances in remote sensing missions.

Between 2002 and 2017, the Gravity Recovery and Climate Experiment (GRACE) mission provided measurements of Earth's gravity field that enabled us to monitor and understand dynamic Earth systems, including solid Earth, atmosphere, cryosphere, and hydrosphere. The mission delivered unprecedented information especially for TWS and GWS studies as this was a first mission that provided global measurements of those components. The importance of GRACE data was raised by the international scientific community, and, in May 2018, a successor of the mission, GRACE Follow-On (GRACE FO), was launched.

This Special Issue solicits GRACE and GRACE FO contributions to studies on groundwater and total water storage changes.

Guest Editors

Prof. Dr. Jolanta Nastula

Centrum Badań Kosmicznych Polskiej Akademii Nauk, Bartycka 18A, 00-716 Warsaw, Poland

Dr. Monika Birylo

1. Institute of Geodesy, University of Warmia, Olsztyn, Poland
2. Department of Land Surveying and Geomatics, Mazury University in Olsztyn, 10-719 Olsztyn, Poland

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Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
remotesensing@mdpi.com

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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

Dr. Prasad S. Thenkabail
Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

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