Special Issue

GNSS in Meteorology and Climatology

Message from the Guest Editors

The Global Navigation Satellite System has become a key remote sensing technique of the global meteorological and climate observing systems. However, the timeliness and accuracy requirements from ground-based networks and low orbiting satellites for meteorology and climate monitoring are very different. On the one hand, GNSS tropospheric products are essential to improve the nowcasting and forecasting of severe weather. This Special Issue mainly focuses on papers that address topics including but not limited to:

- Advances in GNSS data processing techniques for meteorology and climate monitoring.
- The study of GNSS data processing models and parametrizations on the accuracy and homogeneity of long reprocessed time series.
- Assessment of accuracy and homogeneity of existing reprocessed GNSS data sets for use in climate studies.
- Advances in the homogenization of long-term GNSS data sets.
- Use of GNSS integrated water vapour data for the validation of other remote sensing techniques.
- Use of GNSS tropospheric temperature and humidity products for the validation of climate model simulations and reanalyses.
- Data science/machine learning for GNSS remote sensing.

Guest Editors

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Dr. Florian Zus

Dr. Tong Ning

Deadline for manuscript submissions

closed (31 March 2024)

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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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