



Climate Modelling and Monitoring Using GNSS

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Message from the Guest Editors

Global satellite navigation systems (GNSS) are a relatively new technology capable of retrieving IWV measurements from its zenith total delays globally, at a high temporal resolution and accuracy, and under all weather conditions. The main objective of this Special Issue is to strengthen the collaboration between the remote sensing GNSS and the climate (modelling) research communities. Particular areas that could be addressed include but are not limited to:

- The assessment and data mining of long-term (reprocessed) GNSS datasets for use in climate studies (homogeneity, spatial representativeness, temporal relevance, etc.);
- Use of GNSS long-term datasets to evaluate the performance of neutral-atmospheric models;
- Study of the long-term variability of integrated water vapor based on GNSS datasets, possibly in comparison with other datasets (from observations or models);
- Advocating data assimilation of GNSS neutral-atmosphere products in climate re-analysis of climate models;
- Impacts of assimilating GNSS neutral-atmosphere into re-analysis models.





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Message from the Editorial Board

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