

Special Issue

GNSS Meteorology: Algorithm, Modelling, Assessment and Application

Message from the Guest Editors

GNSS meteorology refers to the use of the effect of the atmosphere on the propagation of GNSS radio signals to derive information on the state of the neutral atmosphere. With the continuous observations from GNSS receivers from both satellite platforms and ground permanent stations, it has become an excellent tool for studying the earth atmosphere, snow depth, soil moisture, and terrestrial water storage variations with the advantages of continuous operation, a low cost, all-weather conditions, high accuracy, and high temporal resolution. In this Special Issue, we are looking for articles that discuss the recent trends, current progress and future directions for GNSS meteorology, and articles that describe the algorithm, model and applications related to GNSS meteorology. We welcome original research on topics including, but not limited to:

- Water vapor retrievals based on multi-GNSS;
- Derivation of GNSS atmospheric parameters;
- PWV/IWV time series analysis and prediction;
- Modeling for the atmospheric parameters;
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- Numerical nowcasting based on GNSS observations;
- GNSS radio occultation;

Guest Editors

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Dr. Shangguan Ming

Dr. Liangke Huang

Prof. Dr. Di Zhang

Deadline for manuscript submissions

closed (3 October 2024)



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About the Journal

Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

Dr. Daniele Contini

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