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GNSS Remote Sensing in Atmosphere and Environment

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Deadline for manuscript submissions:
closed (31 January 2024)

Message from the Guest Editors

Global navigation satellite systems (GNSSs) have become one of the predominant remote sensing systems. GNSS remote sensing has become a new era of atmospheric sounding as well as severe climate and weather monitoring.

We present a Special Issue of *Atmosphere* titled "GNSS Remote Sensing in Atmosphere and Environment". We invite you to contribute to this Special Issue with original research and review articles on topics including, but not limited to:

- Water vapor retrievals based on GNSS, radiosonde, microwave radiometer, and other observation systems;
- Multi-sensor data assimilation and model optimization;
- Weather, climate, and environment monitoring using GNSS remote sensing;
- Short-term rainstorm monitoring and forecasting based on GNSS-derived tropospheric parameters (ZTD, ZWD or PWV);
- Machine learning, artificial intelligence and deep learning algorithms and applications in weather prediction and climate analyses using GNSS remote sensing;
- New research and applications of GNSS remote sensing in atmosphere and environment.

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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!

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