GNSS Meteorology and Climatology

Guest Editor:

Dr. Jonathan Jones
Met Office, Exeter, UK

Deadline for manuscript submissions:
closed (31 December 2020)

Message from the Guest Editor

This Special Issue welcomes, but is not limited to, contributions on the following topics:

- Estimates of the neutral atmospheric state derived from ground-based and space-based geodetic techniques and their application in weather forecasting and climate monitoring.
- Assessment of real-time tropospheric products for nowcasting and weather forecasting;
- Analysis of tropospheric parameters derived from low-cost GNSS equipment;
- Production and application of advanced tropospheric products (multi-GNSS, real-time, gradients, slant delays, tomography);
- Assessment of reprocessed high-quality tropospheric products for climate monitoring;
- Multi-instrument retrievals and inter-comparisons of tropospheric parameters;
- Analysis of tropospheric parameters derived from low-cost GNSS equipment;
- Production of SAR-based tropospheric parameters and their application to meteorology;
- Usage of NWP data as an input to GNSS data processing;
- GNSS-reflectometry for soil moisture and snow depth observations.

Special Issue

Editor-in-Chief

Prof. Dr. Ilias Kavouras
Environmental, Occupational,
and Geospatial Health Sciences,
CUNY School of Public Health,
New York, NY 10027, USA

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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