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Ionospheric Science and Ionosonde Applications

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Deadline for manuscript submissions:
closed (25 November 2022)

Message from the Guest Editors

This Special Issue is focused on the use of modern ionosondes to monitor, model and study the ionosphere by means of classical and innovative methodologies, for both research and operation. Contributions related, but not restricted to the following topics are welcome:

1. Ionospheric studies using vertical and oblique HF radio-soundings data;
2. Ionospheric HF radio propagation;
3. Automatic interpretation of ionograms;
4. New ionosonde features and operative capabilities;
5. Integration of ionosonde data with other ionospheric monitoring techniques;
6. Characterization of the Earth's ionosphere and thermosphere, particularly during periods of active space weather;
7. Use of ionosonde data for ionospheric modeling and space weather operations;
8. Coupling between different regions of the Earth and space environment (lithosphere, atmosphere, ionosphere, magnetosphere, heliosphere).

We look forward to your contributions.

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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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