



Satellite Measurements and the Monitoring of Ionosphere and Space Weather

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Message from the Guest Editors

This Special Issue aims at studies covering the use of satellite measurements for characterizing the ionosphere and near-Earth environment plasma conditions with implications on Space Weather applications. Contributions covering, but not restricted to, the following topics are welcomed:

- 1) Investigation and modeling of the topside ionospheric plasma through in situ measurements on-board Low Earth Orbit (LEO) satellite missions such as ESA Swarm, CSES, C/NOFS, DMSP, and ICON;
- 2) Calibration and validation of plasma in situ satellite measurements against remote sensing observations from ground-based and space-based instruments and empirical models;
- 3) Studies on the multiscale properties of the ionosphere through ionospheric indices such as RODI, ROTI, and ROTEL and comparison with empirical ionospheric models;
- 4) Characterization of the ionospheric plasma under severe Space Weather events, relations with external source mechanisms of magnetospheric and solar wind origin, and impact on the technological systems;
- 5) Theoretical studies and modeling of the ionospheric plasma dynamics.





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Message from the Editor-in-Chief

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