



Satellite Measurements and the Monitoring of Ionosphere and Space Weather

Guest Editors:

Dr. Alessio Pignalberi

UF Osservatori Ionosferici e di
Rilevamento Elettromagnetico,
Istituto Nazionale di Geofisica e
Vulcanologia (INGV), 00143
Rome, Italy

Dr. Tommaso Alberti

Istituto Nazionale di Geofisica e
Vulcanologia, Via di Vigna Murata
605, Rome, Italy

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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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Editor-in-Chief

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S.
Geological Survey (USGS), USGS
Western Geographic Science
Center (WGSC), 2255, N. Gemini
Dr., Flagstaff, AZ 86001, USA

Message from the Editor-in-Chief

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Remote Sensing Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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