



Advances in Ionospheric Studies over Polar Areas

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Message from the Guest Editors

Solar–terrestrial interactions affect the entire Earth, but polar areas, being directly connected with outer space through the geomagnetic field lines, are a natural laboratory to monitor and conduct fundamental research on space weather and its effects on modern technological systems. Currently, different instruments support space weather research of the ionosphere and coupled magnetosphere–ionosphere system, from ground-based observations (Global Navigation Satellite System receivers, coherent and incoherent scatter radars, ionosondes, magnetometers, riometers, all-sky-imagers) to in-situ measurements provided by Low-Earth Orbit satellites and sounding rockets. Papers are welcomed which concern, among other subjects, recent developments in modeling and forecasting, monitoring methodologies, metrology, data analysis (especially based on multi-instrument observations), measurement campaigns and international initiatives related to the understanding of ionospheric structures, morphology, dynamics and related threats on technological systems such as communication and position, navigation and timing systems at high latitudes.





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