



Space Geodesy and Ionosphere

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Message from the Guest Editors

Global Navigation Satellite System (GNSS) networks for monitoring the ground deformations of tectonic and volcanic areas and sea-level research have dramatically progressed worldwide during the last two decades. Apart from the geodetic and topographic applications for solid earth, the data provided by such networks can be used to obtain ionospheric Total Electron Content (TEC) maps. These maps are useful to support both high-frequency (HF) radio communications and GNSS users. They can also be used to study the ionosphere morphology and dynamics during strong space weather events. For example, TEC mapping has shown great capability in capturing the evolution of Storm-Enhanced Density (SED) and the significant TEC gradients it creates.

The aim of this Special Issue is to show how precise positioning is affected by space weather events in static and kinematic geodetic applications and how the most recent techniques of analysis can mitigate this effect, leading to new findings related to the ionosphere.

For more information:

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