Special Issue

Advances in Seismic-Ionospheric Coupling

Message from the Guest Editors

A comprehensive understanding of the features and physical mechanisms of the seismic–ionospheric coupling effect is important for the development of real-time earthquake early warning systems based on space-geodetic techniques. With the rapid development of cutting-edge multi-GNSS systems and low-orbit radio occultation systems (COSMIC-1/2, FY-3C/D, etc.), GNSS remote sensing techniques offer an unprecedented opportunity for ionospheric modeling, and provide high-accuracy geodetic data for space weather monitoring and other associated applications. This Special Issue aims to present new studies that address topics including but not limited to:
(1) Advanced methods for detecting seismic–ionospheric signals.
(2) Ionospheric monitoring during severe space events.
(3) Deep learning techniques in earth system models.
(4) Seismic–ionospheric coupling mechanisms.
(5) Applications of ionospheric anomaly to monitoring natural disasters.
(6) Ionosphere modelling.
(7) GNSS data processing for TEC.
(8) Case studies of seismic–ionospheric effects.

Guest Editors

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About the Journal

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!

Editor-in-Chief

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