Special Issue

Ionospheric Sounding for Identification of Pre-seismic Activity

Message from the Guest Editors

Research over the last few decades has shown that the seismogenic process influences the ionosphere through a number of coupling mechanisms, resulting in ionospheric disruption. Ionospheric disturbances could arise in the D/E, F, and topside layers. For seismic ionospheric anomalies at various altitudes, various detection technologies, such as ionosonde for the critical frequency of the F2 layer, the GPS-TEC, and so on, can be used. The goal of this Special Issue is to compile the most recent advances in understanding ionospheric anomalies during earthquake preparation and occurrence processes. This Special Issue includes, but is not limited to, the following features:.

- Ground and ionospheric observations based on ground receivers, ionosonde or low-Earth-orbit satellites and the study of their relationships with earthquakes.
- Infrared or hyperspectral parameter observations and analyses related to pre-seismic activites.
- Integrated observations from multi-spheres for the study of lithosphere-atomosphere-ionosphere coulping (LAIC) in regard to earthquakes.
- Models and observations of low-frequency (ULF/ELF/VLF) electromagnetic wave.

Guest Editors

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Deadline for manuscript submissions

closed (21 January 2025)



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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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