Special Issue

Multi-Sphere Electromagnetic Observations and Their Applications in Geosciences

Message from the Guest Editors

This Special Issue aims to bring together cutting-edge and interdisciplinary research on the development and application of multi-sphere EM observations in geosciences. Studies on the mechanisms and coupling between EM fields and other geophysical fields are also welcome, as they can enhance our understanding of the variations in multiple geophysical fields. The scope of this Special Issue includes, but is not limited to, the following:

- Development and application of EM technologies for multi-sphere observations.
- Electric and magnetic monitoring and observations in different environments and research of their features, wave/disturbances, or interactions with different spheres.
- Relationships and coupling between multi-sphere EM variations and other geophysical fields.
- Applications of multi-sphere EM observations in natural disaster monitoring, resource exploration, environmental monitoring, and investigations of subsurface structures using various EM methods.
- Approaches to integrating multi-sphere EM data for comprehensive geophysical modeling and analysis.
- Advances in techniques for enhancing the quality of EM data by mitigating noise and improving signal processing.

Guest Editors

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Deadline for manuscript submissions

closed (20 June 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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