



Future Trends of Our Atmospheric Electric Environments

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Message from the Guest Editors

Global climate models have suggested that the frequency of thunderstorms and their intensity are likely to increase in the future. Cloud electrification through microphysics processes should clarify the relationship between faster updrafts and lightning frequency. The meteorology and climatology reanalysis with observation and numerical modeling will improve forecasting of a severely convective system. We should further inspect their causes and effects on lightning activities, transient luminous events (TLEs), and terrestrial gamma-ray flashes (TGFs). We invite papers on topics related to thunderstorms, lightning, and transient luminous events. Enhancing our understanding of future trends or climate change for our atmospheric electric environment is of great interest. This also includes findings dealing with thunderstorm dynamics, lightning statistical studies, observation/campaign on transient luminous events, or airglow/aurora monitoring for tide and gravity wave phenomena. Statistical/case studies on global/regional or rural/urban for lightning/TLEs/TGF trends responding to severe weather conditions or climates changes are of particular interest.





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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!

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