

Special Issue

Understanding of Aircraft Interaction with Lightning and Thunderclouds (2nd Volume)

Message from the Guest Editor

The Special Issue is the second volume of the series of publications dedicated to “Aircraft Interaction with Lightning and Thunderclouds”

(https://www.mdpi.com/journal/atmosphere/special_issues/aircraft_lightning_thunderclouds). We pursue an understanding of the interaction between flying electrically floating objects with electrostatic electric fields, such as those generated by thunderclouds. The Special Issue is therefore focused on collecting experimental and theoretical knowledge about the following phenomena:

- Lightning strikes on airplanes, helicopters, drones, UAVs, etc.
- Lightning damage tests on novel materials used in space and aviation.
- Aircraft interactions with thundercloud electric fields.
- High-energy radiation from lightning and thunderclouds and potential hazard to avionic equipment and passengers.
- Laboratory studies on long sparks and charged aerosol clouds.
- Simulations and theoretical work on atmospheric electric discharges in general.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2022)



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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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