

Remote Sensing of Lightning: Sensors, Techniques and Applications

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Lightning detection is a remote sensing discipline. It has characteristic sensors and location techniques. Ground-based and satellite-based lightning locating systems (LLS) are the most common ways to detect and geolocate different processes that occur during the lightning discharge. Lightning data has different applications, from the study of atmospheric electricity and the processes of lightning formation to practical applications like weather warnings and safety applications. For all these applications, it is critical to understand the information that is provided by different LLS, in order to interpret it correctly and make the best use of it. In the first part of the presentation, we will summarize the various methods to remotely detect and locate lightning. From commercial networks to research systems. In the second part, we will review some of the applications and research in which the author has been involved.