

## **Atmospheric Science**

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Study of atmospheric electric field enhances our understanding of the complex processes that are responsible for defining the climate of any region. Knowledge and understanding of atmospheric electric field and its correlations with other weather parameters like humidity, temperature, aerosol can also be very useful in prediction/projection of various extreme weather related events like, lightening, thunder storm, cloudburst etc. Advance warning on the basis of such studies can help in guarding life and property from extreme weather related events. As far as the study of atmospheric electric field over the state of Jammu and Kashmir is considered, only few studies have been made at High altitude Laboratory at Gulmarg, during 70's and 80's. However during last thirty years no such studies have been carried in any part of the state. The department of Physics have installed recently an electric field (EFM-100) procured from Boltek Corporation and installed at University of Kashmir. Studies related to variation of Atmospheric electric field and lightening events are now detected by EFM-100 under various weather conditions (Fair, Cloudy and Rainy) in the present lab.