

# Brainstorming Session on Monitoring the Atmospheric Lightning over India

Atmospheric lightning is a less addressed natural disaster worldwide. With increasing awareness and its importance, the Global Climate Observation System (GCOS), World Meteorological Organization has recognized it as an essential climate variable. In spite of isolated studies investigating this phenomenon, efforts to understand its occurrences over complete India have been very limited. A few notable operational nationwide efforts to monitor atmospheric lightning include IITM/IMD-Lightning Location Network and NRSC-Lightning Detection Sensor Network.

The Brainstorming session intends to update the status of ongoing works and plan for further collaborative efforts to understand and monitor the phenomena and its multi-faced consequences. The session aims at the utilization of the knowledge base for creating awareness in the society to mitigate the losses.

The session will consist of highly focused talks by Climate Resilient Observing Systems Promotion Council (CROPC), and other key scientists/faculties from NARL, Gadanki; NESAC, Shillong; SAC, Ahmedabad; IITM, Pune and NRSC, Hyderabad.

Open for Researchers, students and professionals interested in the topic

## Online mode

**Meeting Link:** <https://nrsc.webex.com/nrsc/j.php?MTID=m84058b8d1e338c2e85f6c537024a1a31>

**Date:** 03 November 2022

**Duration:** 10:00 hrs – 12:30 hrs

**Organizer:**

Earth & Climate Sciences Area, National Remote Sensing Centre, ISRO, Hyderabad



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- 1000 – 1010: Welcome address by the Deputy Director, ECSA, NRSC  
1010 – 1020: Address by the Director, NRSC  
1020 – 1035: NRSC Lightning Detection Sensor Network  
Speaker: Dr. Alok Taori, NRSC  
1035 – 1105: CROPC Activities and Annual Lightning Report 2021-2022  
Speaker: Col. Sanjay Srivastava  
1105 – 1120: Microphysics parameterization and lightning prediction  
Speaker: Dr. Amit Kesarkar, NARL, Gadanki  
1120 – 1135: Lightning nowcasting and hazard assessment in N-E Region  
Speaker: Dr. S. S. Kundu, NESAC, Shillong  
1135 – 1130: Assimilation and modeling aspects of Lightning occurrences  
Speaker: Dr. Bipasha Paul Shukla, SAC, Ahmedabad  
1150 – 1220: Panel Discussion  
1220 – 1230: Concluding remarks and future directions

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