

Online Workshop on
“Earth Observations and Numerical Model Applications for Tropical Cyclone Monitoring and Forecasting”

Date: July 30, 2026

Venue: Indian Institute of Remote Sensing (IIRS), ISRO, Dehradun

Time	Topic/Session	Speaker
0930-0945 hrs	Inaugural Session	
1000-1100 hrs	Fundamentals of Tropical Cyclones: Genesis, Structure, Life Cycle, and Applications of Numerical Weather Prediction (NWP) Models	Dr. Sanjeev Kumar Singh (IIRS, ISRO, Dehradun)
1100-1200 hrs	Multi-Sensor EO Satellite for Tropical Cyclone Monitoring: Capabilities, Applications and Future Perspectives	Dr. Neeru Jaiswal (Space Applications Centre (SAC), ISRO, Ahmedabad)
1200-1300 hrs	Application of Data Assimilation and AI/ML for Improved Tropical Cyclone Forecasting	Ravi Shankar Nemani (Data Assimilation Research Centre (DARC), Department of Meteorology, University of Reading, UK)
1300-1400 hrs	Lunch Break	
1400-1500 hrs	Next-Generation AI Framework for Extreme Weather Prediction	Dr. Swapan Mallick (SMHI/Swedish Meteorological and Hydrological Institute, SWEDEN)
1500-1600 hrs	- Earth Observations Data for Cyclone-Induced Inundation and Hazard Mitigation - Demonstration of Operational Products for Tropical Cyclone Monitoring and Forecasting	Shri. C. M. Bhatt (IIRS, ISRO, Dehradun)
1600-1630 hrs	Panel discussion	