



Program

Workshop on Disasters due to Premonsoon Severe Local Storms (SLSs) over the Northeastern Indian Subcontinent (NEIS)

Time/Date: 10:00–16:30, 23 May 2025

Campus MAP

Venue: Collaborative Research Hub, DPRI, Kyoto University, Uji, Kyoto, Japan



<opening>

Session 1: "Long-Term Climate Variability and Cloud Bursts in Asian Terrestrial Regions" Chair: S. K. Panda / CURAJ, India

Mitigating Disasters due to Cloudbursts over the Himalayas *(online)*

Someshwar Das *South Asian Meteorological Association (SAMA)*

An Experimental Evaluation of Monsoon Local Transition by Wind

Shao-Yi Lee *Kyoto University, Japan*

Influences of Indian Ocean Dipole and El Niño–Southern Oscillation on Thunderstorm Events in Indonesia

Novvria Sagita *Kyoto University, Japan*

Integrated River Basin Management for the Flood –Case Study in Toyama, Japan

Masashi Kiguchi and Taikan Oki *University of Tokyo, Japan*

Long-Term Trend and Interannual Variability of Premonsoon Precipitation in Nepal and India

Azusa Fukushima *Kobe Gakuin University, Japan*

<lunch>

Session 2 "Development of Coordinated Research Initiatives for Mitigating the Effects of Severe Local Storms" Chair: Tetsuya Takemi / Kyoto Univ., Japan

Development of a Local Severe Convective Storm Database for Northeast India and Initial Results from the state of Assam

Rahul Mahanta *Cotton University, India*

AsiaPEX Observation Platform for Severe Local Storms and Formation Processes of Lower Tropospheric High Moist Static Energy Airmass

Toru Terao *Kagawa University, Japan*

Session 3 "Observational Research of Severe Local Storms over the NE Indian Subcontinent" Chair: Rahul Mahanta / Cotton Univ., India

Mesoscale Convective System Over Northeast India subcontinent

Prolay Saha *Cotton University, India*

Spatio-Temporal Patterns of Rainfall over the Northeast Indian Subcontinent Based on Weather Radar Measurements

Hideyuki Kamimera *NIED, Japan*

An Observation of Precipitation Characteristics during Landfall of Cyclone Remal on 26–27 May 2024 using a X-band Marine Radar and a Disdrometer in Dhaka, Bangladesh

Fumie Murata *Kochi University, Japan*

<break>

Session 4 "Development of Modeling for Severe Local Storms over the NE Indian Subcontinent" Chair: Toru Terao / Kagawa Univ., Japan

Performance Evaluation and Detection Efficiency of Weather Research Forecasting (WRF) in Simulating Pre-monsoon Severe Local Storms over the North-eastern Indian Subcontinent

Subrat Kumar Panda *Central University of Rajasthan, India*

Development of a High-Resolution Weather Research Forecasting (WRF) Model Framework for Lightning and Thunderstorm Prediction in Northeast India *(online)*

Unashish Mondal *Central University of Rajasthan, India*

Impact of Land-Atmosphere Feedback Processes on Pre-monsoon Extreme Precipitation over North-east Indian Region *(online)*

Naresh Ganeshi *Indian Institute of Tropical Meteorology, India*

Session 5: "Disaster Prevention for Severe Local Storms over the NE Indian Subcontinent" Chair: Taiichi Hayashi / Kyoto Univ., Japan

Developing a Sustainable Early Warning System for Hydrometeorological Hazards in Northeastern Bangladesh

Mohan Kumar Das *NOAMI, Bangladesh*

Rainfall Pattern and Probability Estimation in the Lower Brahmaputra Floodplain region *(online)*

Pranab Dutta *Gauhati University, India*

<closing>



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