









Inauguration

WORLD METEOROLOGICAL ORGANIZATION

11th WMO Scientific Conference on Weather Modification (Pune | India, 3-7 November 2025)

Website: https://wmo-11scwxmod.tropmet.res.in/
Email: wmo-11scwxmod@tropmet.res.in

Venue: Meghdoot Auditorium | IITM Pune | India 1600 – 1730 Hrs | 2nd November 2025

Lighting of the lamp: a symbol of a new beginning, knowledge, and traditional wisdom

Welcome address by Dr. Suryachandra Rao, Director, IITM

Honouring guests in recognition of scholarship

Address by the Guest of Honor: Dr. M. Ravichandran, Hon Secretary, MoES

Address by the Guest of Honor: Dr. M. Mohapatra, DGM IMD

Introduction of the Chief Guest

Inaugural Address by Chief Guest
WMO President H.E President Dr. Abdulla al Mandous

Address by the co-Chairs of WMO ET Dr. Sarah Tessendorf and Dr. Steven Siems Remarks by Dr. Estelle De Coning, WMO/WWRP

Vote of thanks by Dr. Thara Prabhakaran, LOC Chair











Ice-breaker event

Venue: Goldenrod, Marygold Convention Centre Starting at 1800 Hrs | 2nd November 2025

11th WMO Scientific Conference on Weather Modification

(Pune, India, 3-7 November 2025)
Organized by WMO and IITM Pune

Ice-breaker event

1800 hrs on 2nd November 2025

Sponsored by









Opp, Windmill Village Rd, Windmill Village, Bavdhan, Pune, Maharashtra 411021
(Sponsored by TESSCORN and Aerodyne Research)











Gala Dinner

Venue: Mimosa | Marygold Convention Centre

Starting at 1800 Hrs | 5th November 2025

11th WMO Scientific Conference on Weather Modification (Pune, India, 3-7 November 2025)









Opp, Windmill Village Rd, Windmill Village, Bavdhan, Pune, Maharashtra 411021 (sponsored by Rainmaker and KCMC LLC)













ORALS











DAY1

Session 1: Fundamental aspects of cloud physics as the basis for cloud seeding Part 1

0930-1000 hrs	Keynote: Jan Henneberger	Seeding Low Stratus Clouds to Understand the Microphysics of Glaciogenic Cloud Seeding
1000-1015 hrs	Paul Lawson	Hygroscopic Seeding to Trigger a Natural Secondary Ice Process and Rain Enhancement
1015-1030 hrs	Narihiro Orikasa	Cloud droplet formation experiments by hygroscopic particle seeding under pristine maritime conditions
1030-1045 hrs	Milin Kaniyodical Sebastian	ROLE OF ISOPRENE-DERIVED SECONDARY ORGANIC AEROSOLS IN THE GLACIATION OF DEEP CONVECTIVE CLOUDS
1045-1100 hrs	Group Photo + Break	
1100-1130 hrs	Tea break	
1130-1145 hrs	Xiaofeng Lou	The Construction and Field Experiment of Aerosol-cloud- precipitation Interaction and Seeding Physical Response at Lushan Experimental Base for Fog and Cloud Physics
1145-1200 hrs	Sachin Patade	Investigating Warm and Cold Rain Processes in Mixed-phase monsoon clouds.
1200-1215 hrs	Puja Roy	Investigation of Supercooled Cloud Drop Evaporation Through Numerical Modeling at Native Scales











1215-1230 hrs	ARINDAM DAS	Influence of transported aerosols on
1213-1230 III3	ANINDAM DAS	the cloud microphysical properties
		during withdrawal phase of southwest
		-
		monsoon over Western Ghats, India
1230-1330	Lunch break	
Session	n 2: Precipitation enhancement stud	ies in deep convective clouds
1330-1400 hrs	Keynote Roelof Burger	Enhancing Rainfall from Deep
		Convective Clouds: Current
		Science, Operational Challenges,
		and Emerging UAS Technologies
1400-1415 hrs	Greg McFarquhar	Use of Field Campaign Observations
		Acquired in Vicinity of Houston, Texas
		to Evaluate How Aerosols Affect
		Cloud Evolution and Development of
		Precipitation
		recipitation
1415-1430 hrs	Alya Al Mazroui	UAE Research Program for Rain
		Enhancement Science
		(UAEREP)
		, , ,
1430-1445 hrs	Ayman Mohammed Albar	Overview of Regional Cloud Seeding
		Program of Saudi Arabia
1445-1500 hrs	Zhanyu YAO	Evaluation of Chinese Randomized
		Experiments of Rain Enhancement
		(CRERE) (2014-2020)
1500-1530 hrs	Tea Break	











	Session 3: Hail mitigation, fog or	rain suppression
1530-1600 hrs	Keynote: Ali Abshaev	Short-term and long-term assessments of the effectiveness of hail suppression in different regions of the world
1600-1615 hrs	Malte Neuper	4D-Radar-Evaluation of Thunderstorm development in the context of Hail Suppression missions
1615-1630 hrs	Satyanarayana Tani	Hail Mitigation Operations in Styria, Austria: History, Advances, Al- Integrated Dashboard, and Operational Insights
1630-1645 hrs	Hui Wang	Characteristics of Hail Clouds and Observational Evidence of the Effectiveness of Explosion-Induced Ha Suppression Based on Three X-band Dual-Polarization Phased Array Radars
1645-1700 hrs	Shunji Kotsuki	AMAGOI: Advancing Weather Modification to Mitigate Extreme Rainfall Disasters
1700-1830 hrs	Posters	
	Day 2	
Session 4: F	Precipitation enhancement studies in	shallow/orographic clouds Part 1
0930-1000 hrs	Keynote: Sarah Tessendorf	Investigating the potential for winter orographic cloud seeding in the western United States
1000-1015 hrs	Sisi Chen	Winter Orographic Cloud Seeding in SNOWIE: Insights from an Ensemble Simulation Approach
1015-1030 hrs	Christopher Hohman	Observed and Simulated Physical Responses to Glaciogenic Seeding in an Orographic Cloud during SNOWIE











1030-1045 hrs	Fateme Moradian	Feasibility study and numerical
		evaluation of the cloud seeding
		operations for central part of Iran
1045-1100 hrs	Darrel Baumgardner	Provisional Observations of Pollution
		Scavenging by Ice Layers (POPSICL)
1100-1130 hrs	Tea Break	
Session 5: Pr	recipitation enhancement studies in	shallow/orographic clouds Part II
1130-1145 hrs	Binod Pokharel	Potential of Cloud Seeding to
		Enhance Snowfall in the Himalayas:
		Insights from Utah and Wyoming
		Programs
1145-1200 hrs	Aroonroth Sricharounchot	Spatial Analysis for the Optimal Site
		Selection of Ground-Based Cloud
		Seeding Equipment: A Case Study in
		Upper Southern Thailand
1200-1215 hrs	Nicholas Dawson	The Liquid Propane Experiment (LPX):
		Overview, Phase 1 Results, and Phase
		2 Plans
1215-1230 hrs	Kandula Subrahmanyam	Orographic precipitating clouds:
		Structure and Evolution
1230-1330 hrs	Lunch Break	
	Session 6: Climate intervention/Mari	ine Cloud Brightening
1330-1400 hrs	Keynote: Steven Siems	Marine Cloud Brightening over the
		Great Barrier Reef during periods of Coral Bleaching
		<u> </u>
1400-1415 hrs	Minghuai Wang	Deep Learning Insights on Optimal
		Conditions for Enhancing Radiative











		Cooling Through Marine Low Cloud Intervention
1415-1430 hrs	Vulker Wulfmeyer Oliver Branch	The Cloud and Precipitation Reactor (CPR) - Intelligent land-use change to enhance precipitation in arid regions
1430-1445 hrs	Asutosh Acharya	South Asian Summer Monsoon under stratospheric aerosol intervention
1445-1500 hrs	Alan Gadian	Marine Cloud Brightening; usage of coded modulation to minimise the risks and unintended consequences of consequential rainfall perturbations.
1500-1530 hrs	Tea break	
	Session 7: Hazard mitigation, fog	suppression
1530-1545 hrs	Amadou COULIBALY	Variability of extreme precipitation over Niger River Basin under Solar radiation modification
1545-1600 hrs	Michelle Reboita	Southern Hemisphere extratropical cyclones in climate scenarios with and without SAI
1600-1615 hrs	Moumita Bhowmik	The Challenge of Fog Suppression for Weather Management: Theoretical and Model Studies
1615-1630 hrs	Ehud Gavze	Warm Fog elimination: Methods and a Numerical model
1630-1700 hrs	TBD	
1700-1830 hrs	Posters	













	Day 3	
Session 8: Emerging technologies or new methods for weather modification		
0930-1000 hrs	Keynote: Jing Duan	Chinese Aircraft Observational Datasets and Research on the Application of Artificial Intelligence Analysis Methods in Airborne Detection Data
1000-1015 hrs	Kimberly Dill	UAV Cloud Probes: Providing Information for Real-Time Decision- Making, Validation, and Research Objectives in Weather Modification
1015-1030 hrs	Fred Brechtel	Ground, Drone, and Aircraft-based Measurement Tools for Aerosol-Cloud Interaction and Cloud Seeding Studies
1030-1045 hrs	Xu Zhou	Case Studies and Technological Research on the Application of Large- scale UAV Systems in Weather Modification
1045-1100 hrs	Marta Nelson	Enhancing Cloud Seeding Efficiency: Insights from Particle Size Distribution and Flare Design Innovations
1100-1130 hrs	Tea break	
Session 9: Emerging technologies/new methods for weather modification, Stakeholder engagement		
1130-1145 hrs	Jatan Buch	Optimizing cloud seeding with a denoising diffusion model
1145-1200 hrs	Miao Cai	Development of Cloud Parameters with Fengyun Satellites and Its Application in Weather Modification











1200-1215 hrs	Abdulhadi Alzahrani	Hydrological Assessment of Cloud Seeding in the Southwestern Region of Saudi Arabia
1215-1230 hrs	Prakash Tiwari	Improving Community Access to Climate Information in Underdeveloped Mountains: An Illustration of Bridging the Gap between Climate-Science and Local Adaptation Needs Through Community Engagement and Communication in Hindu Kush Himalaya
1230-1245 hrs	Supaluck Dasom	ASEAN Weather Modification Centre (AWMC) under the ASEAN Sub- Committee on Meteorology and Geophysics (ASEAN SCMG)
1245-1300 hrs	Mohan Kumar Das	Hydrometeorological Dynamics and Integrated Flood Forecasting System for Eastern Bangladesh: Policy Implications for Resilience
	Lunch break	
Session 1400-1415 hrs	n 10: Stakeholder engagement, ELSI Koji Tachibana	panel talks and discussion Understanding Different Perceptions of Nature and The Culture-Sensitive ELSI of Geoengineering
1415-1430 hrs	Kala Golden	The Power of Three: Advancing Weather Modification through Government, Science, and Industry
1430-1600 hrs	Panel discussion	Communication and stakeholder engagement challenges and strategies
1600-1630 hrs	Tea Break	













1630-2000 hrs	Cultural event + Gala dinner		
	Day 4		
Session 11: Broa	ader applications/hazard mitigation (I mitigation, cyclone or typhoon n		
0930-1000 hrs	Keynote: Lulin Xue	Status, Progress, and Direction of	
		Weather Modification and Regional Climate Intervention Research	
1000-1015 hrs	MASATAKA MURAKAMI	Numerical experiments on typhoon	
		modification by invigorating non- axisymmetric convection using a	
		cloud seeding method	
1015-1030 hrs	Vijay Vishwakarma	Impact of Surface Ocean Forcings on the Cloud and Precipitation Characteristics of Super Cyclonic Storm Amphan over the Bay of Bengal	
1030-1045 hrs	Masashi Minamide	A potential pathway to mitigate	
		tropical cyclone intensification onset	
		through multi-scale nonlinear interaction	
1045-1100 hrs	Arkadii Koldaev	Landscape and Forest fires reduction using weather modification for rain enhancement in the Republic of Sakha (Yakut)	
1100-1130 hrs	Tea Break		
Session 1	Session 12: Weather forecasting, and nowcasting Decision Support Systems		
1130-1145 hrs	Caleb Steele	Leveraging GOES-R and HRRR for	
		Cloud Seeding Operations: A Data-	











		Driven Approach to Cloud
		Microphysical Analysis
		Therephysical values of
1145-1200 hrs	Pascal Oettli	Visualization of Extreme Weather
		Events Scenarios Using Regional
		Ensemble Prediction Data
1200-1215 hrs	Wilawan Kumharn	Developing Tropical Cloud Model of
		Tropical Storm Soulik and Its Impact
		on Weather in Thailand
1215-1230 hrs	Daniel Rosenfeld	Retrieving cloud microstructure and
		seedability over the UAE based on
		combined cloud simulations and
		satellite data
1230-1245 hrs	Orestis Panagopoulos	Evaluating NWCSAF Products for
		Cloud Seeding: Impact of NWP
		Configurations on Nowcasting
		Performance
1245-1300 hrs	AVISHEK RAY	Modulation of clouds and
		precipitation due to aerosol
		hygroscopicity over Western Ghats,
		India
1300-1400 hrs	Lunch break	
Session	13: Weather forecasting, and nowca	asting Decision Support Systems
1400-1415 hrs	Ioannis Matsangouras	Assessing Cloud Seeding
		Effectiveness Using LROSE TITAN:
		Identifying Seeding Opportunities and
		Analyzing Storm Evolution
1415-1430 hrs	Sarawut Arthayakun	Predicting Cloud Seeding Potential
		Based on Machine Learning and WRF
		Forecast Data for Rainmaking
		Operations in Eastern Thailand











1430-1445 hrs	Haldaaditya belgaman	Mitigate Forest and Land Fire using
		Weather Modification based on
		Artificial Intelligence Decision Support System
1445-1500 hrs	Duncan Axisa	How intelligent is weather
		modification?
1500-1515 hrs	Gerhardt Botha	Advancing autonomous cloud
		seeding: The RECCES algorithm for
		targeting convective cells
1515-1530 hrs	Nitig Singh	Investigation of Bright Band
		Characteristics using L-Band Wind
		Profiler and C-Band Dual-Pol Weather
		Radar over Rain Shadow region
1530-1600 hrs	Break	
0		
Session 14: Inadv		n impacts, contrails, pollution dispersion,
	etc.)	
		Assessing the Impact of Maritime
Session 14: Inadv 1600-1615 hrs	etc.)	Assessing the Impact of Maritime Emissions on Coastal Weather
	etc.)	Assessing the Impact of Maritime Emissions on Coastal Weather Patterns and Environmental
	etc.)	Assessing the Impact of Maritime Emissions on Coastal Weather
	etc.)	Assessing the Impact of Maritime Emissions on Coastal Weather Patterns and Environmental Parameters in Indian Ports Aerosol impacts on the populational
1600-1615 hrs	Chaitali Thali	Assessing the Impact of Maritime Emissions on Coastal Weather Patterns and Environmental Parameters in Indian Ports Aerosol impacts on the populational behavior of shallow cumulus clouds
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1600-1615 hrs	Chaitali Thali	Assessing the Impact of Maritime Emissions on Coastal Weather Patterns and Environmental Parameters in Indian Ports Aerosol impacts on the populational behavior of shallow cumulus clouds
1600-1615 hrs 1615-1630 hrs	Chaitali Thali Micael Cecchini	Assessing the Impact of Maritime Emissions on Coastal Weather Patterns and Environmental Parameters in Indian Ports Aerosol impacts on the populational behavior of shallow cumulus clouds over the Amazon
1600-1615 hrs 1615-1630 hrs	Chaitali Thali Micael Cecchini	Assessing the Impact of Maritime Emissions on Coastal Weather Patterns and Environmental Parameters in Indian Ports Aerosol impacts on the populational behavior of shallow cumulus clouds over the Amazon Quantifying the contributions of
1600-1615 hrs 1615-1630 hrs	Chaitali Thali Micael Cecchini	Assessing the Impact of Maritime Emissions on Coastal Weather Patterns and Environmental Parameters in Indian Ports Aerosol impacts on the populational behavior of shallow cumulus clouds over the Amazon Quantifying the contributions of aerosol-radiation interactions
1600-1615 hrs 1615-1630 hrs	Chaitali Thali Micael Cecchini	Assessing the Impact of Maritime Emissions on Coastal Weather Patterns and Environmental Parameters in Indian Ports Aerosol impacts on the populational behavior of shallow cumulus clouds over the Amazon Quantifying the contributions of aerosol-radiation interactions contribute to post monsoon air quality













	Day 5	
1730-1900 hrs	Posters	
1715-1730 hr	Break	
1700-1715 hrs	PRACHI KHOBRAGADE	Influence of Land Surface Dynamics on Regional Precipitation Patterns
4700 4745 h		and Severe convective storms: A Study Over Chennai

Session 15: Fundamental aspects of cloud physics as the basis for cloud seeding Part II **CAIPEEX - defining opportunity that** 0930-1000 hrs **Keynote: Thara Prabhakaran** shaped cloud physics studies in India **Evaluating Cloud Seeding** 1000-1015 hrs Manhal Alhilali Effectiveness in Convective Clouds with the Advanced Super-Droplet Method 1015-1030 hrs Weiguo Liu Introduction of CMA-CPEFS cloud seeding model and its application **Mahen Konwar** Identifying the seeding signature in 1030-1045 hrs cloud particles from hydrometeor residuals Measurements of ice nucleating 1045-1100 hrs **Sonali Patade** particles over rain shadow region of India 1100-1130 hrs **Tea Break**









1130-1145 hrs	Ottmar Moehler	Development and operation of AIDA
		and PINE cloud simulation chamber
1145-1200 hrs	Kurt Hibert	Laboratory studies of hygroscopic
		seeding
1200-1215 hrs	Naruki Hiranuma	Laboratory study on the efficacy of
		new glaciogenic cloud seeding
		materials
1215-1230 hrs	Shaofeng Hua	Hygroscopic Seeding Simulation
		Using a Superdroplet-Bin Hybrid
		Microphysical Scheme
1230-1245 hrs	Lois Thomas	Large eddy simulations of a
		convection cloud chamber with
		variable sidewall forcing: achieving
		uniform supersaturation,
		microphysics, and turbulent mixing
1245-1300 hrs	Xueliang Guo	Optimizing cloud seeding for rain
		enhancement based on aircraft
		measurements and modeling
1300-1330 hrs	Closing Remarks	
	Lunch	













POSTERS









Session 1	Fundamental aspects of cloud physics as the basis for cloud seeding Part I
Participant	Abstract Title
•	
Sisi Chen	Ice-Droplets Interactions in Mixed-Phase Clouds: Lagrangian
	particle-based direct numerical simulation (DNS)
Xiangfeng Hu	Exploring the Microphysical Variability within Stratiform Clouds: In-
<u> </u>	Situ Aircraft Observations from North China
Stavros-Andreas	Identification of Potential Targets for Glaciogenic Seeding
Logothetis	Operations Using Satellite and Aircraft Cloud Observations During
	Saudi Arabia's Regional Cloud Seeding Program
Sandhya Jose	Understanding Extreme Precipitation Variability of Indian Summer
	Monsoon through Cloud Microphysical Processes
Marya AlHomoud	Assessment of Cloud Seeding Efficiency in Changing Cloud
	Properties
Xincheng Ma	Topographic Precipitation and Integrated Cloud-seeding
	Experiments (TOP-ICE).Part I:Natural Conditions
Udaya Gunturu	What factors contribute to the scanty rainfall in arid and desert
	regions?
Sreelekha R	Seasonal micro and macro physical characteristics of convective
	clouds in the Kingdom of Saudi Arabia
Rupraj Biswasharma	Modifications in thunderstorm properties during the COVID-19
	lockdown: the role of pollutants and microphysics
Imolemba	Seasonal and Diurnal Variability of Raindrop Size Distributions over
Longkumer	the Leeward Western Ghats
Zhaoxia HU	Aircraft Measurements of the Microphysical Properties of
	Stratiform Clouds with Embedded Convection
MERCY VARGHESE	Impact of cloud base aerosol activation on the aerosol cloud
	interaction over a rain shadow region
Anil KumarV	Ice-nucleating particle measurements from two diverse
	geographical locations in India
Leena PP	Microphysics of pre-monsoon clouds as perceived from in-situ
	observation of a high-altitude site in Western Ghats, India
Jing Duan	Integration and Comparative Analysis of Remote Sensing and In
O .	Situ Observations of Aerosol Optical Characteristics Beneath
	Clouds
Xiaowei Zhong	UDINET: A LIGHTWEIGHT NETWORK FOR IMAGE RECOGNITION
	OF NATURAL SNOW AND ICE CRYSTALS IN WEATHER
	MODIFICATION
Puja Roy	Impacts of Collision-induced Drop Breakup on Droplet Size
,,	Distributions using Lagrangian Superdroplet Method
Akshada Kadam	Effects of Entrainment and Mixing on Cloud Microphysics under
	Dry Environmental conditions
Shibani Bhatt	Experimental Investigation of Turbulence in Rayleigh-Bernard
	Convection











Ahmed MOUCHA	Evaluation of Arome Model Forecasts for Cloud Seeding
	Operations: Comparison with In-Flight Measurements.
Sudarsan Bera	In-situ observations of monsoon cloud microphysics over Arabian
	Sea region
Kashmiri Devi	Microphysical parameterization for stratus clouds over western
	ghats, India
Gayatri Kulkarni	Aerosol–Cloud Interactions and Precipitation Enhancement:
	Case Study from the CAIPEEX Hygroscopic Seeding Experiment
Sachin Patade	Influence of Aerosol Loading on the Microphysical Properties of
	Mixed-Phase Clouds over the Bay of Bengal: Insights from CAIPEEX
	Observations and High-Resolution Numerical Simulations.
Neelam Malap	Dissipation of clouds with hygroscopic cloud seeding during
	CAIPEEX experiment
Arya Pisharody	Characterizing Refractory Black Carbon in Deep and Shallow
	Convective clouds: Results from CAIPEEX campaign over rain
	shadow region
Vidya Pawar	Binary Collisions of Water Drops in Presence of Horizontal Electric
	Fields: Parameterization of Fragment Size Distribution.
Session 2	Precipitation enhancement studies in deep convective clouds
Raja Boragapu	Study of cloud seeding efficiency through quantifying spatial and
	temporal variability of seeding effects on supercooled liquid water
	content using combined NWP and airborne observations over
	Saudi Arabia
Hwang Yanbin	Randomized effect of artificial catalytic convective cumulus in
	Hainan island province, China
Ivanov Vladimir	Investigation of the possibility of precipitation from convective
	clouds using hygroscopic material with optimal microstructure
Ioannis	Evaluating Rainfall Enhancement in the Regional Cloud Seeding
Matsangouras	Program of Saudi Arabia: Summer and Autumn 2022
Ali Abshaev	Results of 5-years rain enhancement experiments using rocket
	technology
haldaaditya	A Preliminary Study of Evaluation of Cloud Cell Response to Cloud
belgaman	Seeding: Insights from C-Band Weather Radar Data in East
	Kalimantan Area, August 17, 2024.
MUATH ALKHALAF	Investigating the evolution of cloud seeding operations during
	different synoptic systems over the Kingdom of Saudi Arabia
Gayatri Kulkarni	Glaciogenic vs. Hygroscopic Cloud Seeding: A Numerical study of
	their relative impacts
Payoshni Samantray	Thermo-dynamical processes during Periodic Thunderstorms over
	different physiographic regions of India.
Kuldeep Madhekar	Understanding the Role of Ionized Hygroscopic Aerosols and Ion-
-	Dipole Interaction in Enhancing Precipitation Using UAV-Based
	Cloud Seeding Systems
Devika MV	Long-Term Changes in the Diurnal Cycle of Deep Convective
	Clouds Over the Indian Monsoon Region









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Hector Arias Rojo	DROUGHT MITIGATION WITH CLOUD SEEDING: EXPERIENCES IN MEXICO
TESNA MARIA	INFLUENCE OF SEA SURFACE TEMPERATURE ON MONSOON EXTREMES OVER THE WEST COAST OF INDIA
Arunkumar R	Understanding of Lightning and Convective Parameters: A Climatological Approach Using ERA5 and TRMM LIS Data.
Uma KN	Storm Dynamics across Monsoon Gateway and Rain Shadow Regions: Insights from long-term Radar Observations and Reanalysis
Darshana Gautam	Role of Aerosol-Cloud Interactions in Enhancing Precipitation: Insights from High-Resolution Simulations of Extreme Events Over the Western and Eastern Ghats.
Sachin Patade	High-Resolution Simulation of Glaciogenic Seeding Effects on Mixed-Phase Monsoon Clouds over the Rain Shadow Region of India
Ajil Kottayil	Emerging Trends in Deep Convective Cloud Dynamics During the Indian Summer Monsoon
Ajay Bankar	Enhancing Precipitation Forecasts in Deep Convective Clouds using Data Assimilation Techniques
ASHRUBA	Tracking Convective Cell Lifecycle and Cell-to-Cell Interactions in
GHORAPADE	the Monsoon Core Zone using Polarimetric Radar Observations
UdayaKumar Sahoo	Adaptive Fuzzy Logic Hydrometeor Classification for C-Band Radar Using Machine Learning-Based Membership Function Estimation
CHIRANJEEVI	The first Indian X band dual polarization Doppler Weather Radar
GUTTULA	network: A study of vertical profiles of radar parameters in a convective rain event over Mumbai
Jayesh Dhangar	Lightning Flash count variability over Indian region during different phases of Indian Summer Monsoon Season
Session 3	Precipitation enhancement studies in shallow/orographic clouds
Resmi EA	Studying the developments of orographic clouds and rainfall: High Altitude Cloud Observations over Western Ghats, India
Yunbo Chen	Obervation Study on Macro-and Micro-Structures of Orographic Clouds during the Winter in Haituo Mountain, Beijing
Raju Attada	Orographic Precipitation Extremes: Modelling and Observations
SUMESH RK	Microphysical and Dynamical Perspectives of Precipitation Enhancement in Shallow Clouds over the Western Ghats Orography
Rehan Hossain	Setting up of Sub-km Scale Model over the Southeast Coastal Indian Region
Arunkumar KL	Orographic Sensitivity in Simulating the December 2023 Tamil Nadu Extreme Rainfall
OM KUMAR	Decoding the role of Indian summer monsoon and westerlies in cloud cover variability over the Himalayas and Tibet
Ezequiel Hernandez T	THE SINALOA, MEXICO CLOUD SEEDING PROGRAM 2024, USE OF HYGROSCOPIC AND GACIOGENIC FLARES.











Session	Hail mitigation, fog or rain suppression
Djordje Kardum	Seeding effect assessment: description of two supercell storms with different seeding levels
Djordje Kardum	Automation of the hail suppression system in Serbia
Xinshu Fu	Artificial Fog Dispersal Campaign in Coastal Megacity: Practice and Experience in Shanghai, China
Zoran Vucinic	Hail Suppression in Serbia from 1967 to 2025
Alexandru Marin	Innovative Aerosol Generating Systems for Hail Mitigation and Precipitation Enhancement
Ivan Birovljevic	Enhancing Cloud Seeding Criteria Using Machine Learning
yuquan zhou	Characteristics of the atmospheric water cycle and key technologies and applications for precise intervention in specific targets
Devender Bishnoi	Drivers Behind Diminishing Trend of Monsoon Depressions over Bay of Bengal Influencing Monsoon rainfall over India
YONG ZENG	Analysis of Array Phased Array Radar Observation of a Severe Hailstorm Process in the Yunnan-Guizhou Plateau
Prasanna Lonkar	Investigating the microphysical features of haze and dense fog in different regions over IGP
Anupam Hazra	The Challenge of Fog Suppression for Weather Management: Theoretical and Model Studies
Anupam Hazra	Understanding of Microphysical processes for Hail Particle Suppression over India using Triple-moment Microphysics scheme in Numerical Weather Prediction Model
Donali Gogoi	Understanding Cloud base lowering fog using observation, reanalysis and high resolution modeling using DM-Chem
Mamta yadav	Recent years Hailstorm analysis over central India during winter and premonsoon season
Kedar Tahashildar	Changes in Cloud Microphysical Properties induced by firing a Prototype Hail Cannon in Laboratory Simulated Clouds.
Darko Savic	Numerical simulations of aerosol scavenging in deep convective clouds using a three-moment microphysical scheme
Zoran Vucinic	COST-BENEFIT ANALYSIS OF THE HAIL SUPPRESSION IN SERBIA
Session 4	Hydrological processes, impacts, and assessments
Ting Li	Distribution characteristics of cloud water resources in Altay Region
Sara Vanessa C. R. da Silva	Statistical Assessment of Rainfall Enhancement in the Kingdom of Saudi Arabia during the Regional Cloud Seeding Program
VIKAS KUSHWAHA	Elevation dependent effects of precipitation on river discharge at different spatio-temporal scales
Miao Cai	Quantifying the Cloud Water Resource: Basic Concepts, Quantification Methods and Characteristics













Raja Boragapu	Investigating Causal Relationships between Rainfall and Vegetation Dynamics in the Asir Mountains, Southwest Saudi Arabia
Bhupendra Singh	Catastrophic landslides in the Western Ghats: Hydrological triggers, Risks and Mitigation challenges
Nicholas Dawson	Exploring A Replacement for Wintertime Cloud Seeding Target- Control Benefit Analysis
Saranya Sasidharan	A new approach to Radar Rainfall Estimation using Vertically Integrated Liquid based Reflectivity profile
Tanuja Kango	Elevation-Dependent Climate Trends in the Beas Basin, Northwestern Himalayas
Karabi Karmaker	Influence of Madden-Julian Oscillation on Primary Productivity in the Northern Bay of Bengal
Rani Devi	Role of ENSO and MJO in the Modulation of Heavy Rainfall Event's characteristics over North Eastern India
Sumit Kumar	Convective Dynamics and Hydrological Modeling of the 2023 Delhi Flash Floods Using Coupled WRF-Hydro and X-Band Radar
Sahana CG	Analysing the Impact of Summer Monsoon Rainfall Variability on the Agricultural Productivity in Rainfed Regions of Maharashtra and Karnataka
ZhilLiang Shu	Development of a Localized Atmospheric Weighted Mean Temperature Model for the Liupan Mountain Area
Sudip Kundu	Geospatial assessment of space-based AWiFS derived NDVI pattern with respect to ground-based IMD rainfall data over Assam, India
Puspendu BiswasPaul	Geospatial Modeling of Flood Susceptibility in Eastern Bangladesh: Risk Assessment and Hazard Zonation for the August 2024 Flood
Suparya Raj	INVESTIGATING THE ROLE OF SOIL MOISTURE AND EVAPOTRANSPIRATION IN MODULATING LAND–ATMOSPHERE INTERACTIONS OVER CENTRAL INDIA DURING THE MONSOON SEASON
SifatTanzil OVI	Atmospheric Circulation Patterns and Synoptic-Scale Forcing of the Eastern Bangladesh Flood, August 2024: A Meteorological Perspective
Silpamol DS	Understanding the Precipitation characteristics associated with the sub-seasonal variability during the Indian summer monsoon
Sumana Sarkar	Multi-Criteria Ensembles for hydro-meteorological analysis of a flash flood event over the megacity of Bangalore
Prajwal K	Impact of Convectively Coupled Equatorial Waves on Extreme Precipitation Events Over the West Coast of India
CharanTeja Tejavath	Maiden Observations of Precipitation Processes in the Schirmacher Oasis, Antarctica
Aashna Verma	Projected Variability in Water Availability and Potential- Evapotranspiration under Climate Change over Varanasi District using CMIP6













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Praneta Khardekar	Probability Distribution Analysis of Indian Summer Monsoon
	Rainfall and High Cloud Fraction in CMIP6 Projections of a
	Warming Climate
Saloni Sharma	Evolving Cloud Characteristics and Their Climate Linkages and
	Precipitation Implications Over the Indian Summer Monsoon
	Region
Archana Rai	Evaluation of Evapotranspiration partitioning in Noah and CFSv2
Yogesh Kolte	Quantitative Precipitation Estimation over a complex terrain: Dual-
	polarization X-band radar measurements
Pooja Purushotham	Characteristics of Virga Event from Observations and Numerical
,	Simulation
Abhirami M	Assessing Future Climate Projections: An In-depth Analysis of
	CMIP6 Models on Indian Ocean Warming, Sea Surface
	Temperature Biases, and Precipitation Patterns
Rohini Bhawar	Multisource Analysis of Aerosolâ€"Cloudâ€"Precipitation
	Interactions Using Satellite and Reanalysis Datasets
R Vinnarasi	Tracing Moisture Sources of the 2013 Kedarnath Floods Using a
	Lagrangian Approach: contributions from the Tropics and the
	Middle East
Gong Dianli	Numerical Investigation of Transport of Water Vapor and Cloud
201.6210	Hydrometeors During Typhoon "DAMREY†Influence on
	Shandong Peninsula
Session 5	Broader applications/hazard mitigation (Eg. Bushfire/forest fire
	or avalanche mitigation, cyclone or typhoon mitigation, etc.)
Pushpa Rapeti	Influence of Cumulus Parameterization in WRF for Super Cyclone
	Simulation
Harsha P	Simulation Understanding Heat Stress and Prediction Tools for India
Harsha P	Understanding Heat Stress and Prediction Tools for India
Harsha P Rushikesh Adsul	Understanding Heat Stress and Prediction Tools for India HighResMIP CMIP6-Based Near-Future Projections of Tropical
Rushikesh Adsul	Understanding Heat Stress and Prediction Tools for India HighResMIP CMIP6-Based Near-Future Projections of Tropical Cyclone Activity Over the Bay of Bengal
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HIBA P	Seasonal Variability of Atmospheric Boundary Layer Height over the Indian Subcontinent
Neha Kushwaha	Impact of Built-up Expansion on Local Temperature and Precipitation Over Northern India.
SWATHY	Chemical Characterization and Radiative Forcing of PM2.5 and
GOPALAKRISHNA	PM10 in a Central Himalayan Location: A Case Study in Ranichauri
Rhituja Bhorade	Urbanization and Inadvertent Weather Modification Over Delhi
SUNILKUMAR	Identifying the Extreme Rainfall Hotspots over Mumbai: A special
KHADGARAI	analysis using MESONET.
Sanjay Mehta	Climatology of the aerosols redistribution due to varied tropical
, ,	cyclones over the Indian ocean
Deewan Bisht	Aerosol chemistry over a central Himalayan site in India: sources
	and temporal variability
Seetha CJ	Exchange Between Atmospheric Boundary Layer and Free
	Troposphere Over the Indian Monsoon Region
Preethi Bhaskar	Can a global pandemic modify regional weather and climate
PRAVEEN KUMAR	Air Quality-Climate Interactions in India's West Central Region:
	Role of EDGAR and SAFAR Inventories in Capturing Seasonal
	Variability
Deenmani lal	Influence of Atmospheric Moisture and Instability Parameters on
	Lightning Activity Over Delhi NCR During 2019–2020
HZ Vanlalrochana	Vertical Cloud Distribution over a Tropical Urban Region,
	Hyderabad
Kethavath Lakshma	Decadal Variability of Boreal Spring Surface Air Temperature over
Ashish Cani	India
Ashish Soni	Anthropogenic Influence on CCN Variability over the Bay of Bengal
Kavita Patnaik	Assessing Heat Wave-Driven Ozone Variability in Delhi
MdNaiem Sarder	Variation in Ambient and Feels-Like Temperature among Different
	Coastal and Inland Cities in Bangladesh
Swadesh Mohapatra	Assessment of Surface Urban Heat Island over Bengaluru City in India
Session 7	Emerging technologies or new methods for weather modification
Yuzhong Wu	Application of composite wing UAV in weather modification
Ashish Routray	Developed Nested High-Resolution Rapid Refresh Modeling
Town Defect	System over the Indian Himalayan Region
Tom DeFelice	On the Autonomous Implementation of Operational Rain
Fabilarasi C	Enhancement Maneuvers by UAS Next Congretion Computing Fuglished of LIDC At Integration and
Ezhilarasi S	Next Generation Computing: Evolution of HPC, Al Integration, and
	Usage of Exascale Platforms in Weather Forecasting and Climate Prediction
	FIGUIGHUH









Ezhilarasi S	Advancing Evaluation with CSET: A Flexible and Reproducible Approach for UM LFRic Models by Building Trust in Convective and
	Turbulence-Scale Verification and Development
Yang Gao	Integrated Design of the Airborne Task System Equipped for the High-Performance MA60 Seeding Aircraft
Sanket Kalgutkar	Measurements of atmospheric turbulence in the lower atmosphere using a fixed wing UAV system of LARUS facility
Abhishek Gupta	Drag scaling in Truly Neutral Atmospheric Boundary Layer Using LES
Mahesh Nikam	UAV-Integrated Radiosonde Telemetry system for atmospheric profiling
CHAO TAN	Advances and Future Prospects of Artificial Intelligence in China Weather Modification
Masaya Ishikawa	Ice nucleation activity of plants: species and tissue distribution, characterization and functions.
Ali Abshaev	Studying the possibilities of creating artificial clouds and rain
Roopashree Shrivastava	APPLICATION OF ARIMA TECHNIQUE FOR MONTHLY AND SEASONAL RAINFALL FORECASTS: A CASE STUDY FOR TROMBAY SITE
Randy Seidl	Rainfall Enhancement by Ionization – Eco Alternative to Chemicals and Gas?
Nikitabahen Makwana	Machine Learning-Driven Estimation of Superdroplet Growth from DNS Data
Rona MariaSunil	Clustering TEJ regimes and associated rainfall signatures in the Indian summer monsoon
SUNILKUMAR KHADGARAI	Synergetic approach to develop multi source precipitation product from high resolution Radar , rain gauge networks and satellite over Mumbai
Pranaba Nayak	Investigating the formation of thunderstorm-induced muon events using the Ooty muon telescope, electric field measurements, and lightning observations over three consecutive springs (2020–2022)
Padmakumari Burrala	Instrumented-UAV for Aerosol and Cloud properties: A New Facility for the support of Aerosol-Cloud-Precipitation studies in India
Luo Jiayi	Simulation and Experimental Investigation of Warm Cloud Catalysis Utilizing the Artificial Weather Modification Cloud Chamber
Santhoshkumar G	360° Rotating Ceilometer - The future of Cloud Observation
Sachin Deshpande	Properties of Mesoscale Convective Systems Throughout Their Lifetimes in the Monsoon Core Zone Using Satellite, Polarimetric Radar, and Lightning Observations
Subhrajit Rath	Hybrid Approach: Combining Physical and CNN-Based Cloud Fraction prediction for Enhanced NWP across scale
Biprav Chetry	Portable Cost-Effective Aerosol Particle Analyser Using a Smartphone









Manisha	Objective Identification and Tracking of ZDR Columns in
Tupsoundare	Polarimetric Radar Observations: A Proxy for Deep Convective Updrafts
Yuta Higuchi	Comparative Study of Black-Box Methods in Weather Intervention
Session 8	Weather forecasting, and nowcasting Decision Support Systems
Kandula Subrahmanyam	Estimating the diameter of deep convective rain cells using C-band SAR from the EOS-4 satellite and GPM measurements
Ioannis	Applications of NWCSAF in cloud seeding activities in the Kingdom
Matsangouras	of Saudi Arabia
Raja Boragapu	Investigating the performance of major thermodynamic parameters and their relevance to determine convection over Saudi Arabia
Sarawut Arthayakun	Standardized Spatial Reference for Rainmaking Weather Modification Data Integration Based on an Open-Source DGGS
Nandivada Umakanth	Impact of Cumulus and Microphysics Scheme Selection on WRF- Simulated Extreme Rainfall in Hilly Terrain
Sahadat Sarkar	Development and implementation of drop size distribution parameterization in GFS model based on observation data from Indian region
PatitaKalyana Sahoo	Characterizing Diurnal Rainfall Variability in Monsoon-Controlled Oceanic Domains: Bay of Bengal vs Arabian Sea
Sudhanshu Shekhar	Climate variability and extreme weather events over the Western and Central Himalayas
Pribin KP	Challenges and Advances in CMIP6 Simulations of Indian Summer Monsoon Rainfall: A Focus on Large-Scale and Convective Precipitation
Anupam Hazra	Hygroscopic Cloud Seeding in Warm-rain Processes over Indian subcontinent using Triple-moment Microphysics scheme in Numerical Weather Prediction Model
Rashmi Hallad	Integrating Remote Sensing and Machine Learning for Agricultural Drought Prediction and Crop Yield Loss Assessment in North Karnataka
Junaid Bin Yousuf P	Evaluation of Thermodynamic Indices for Lightning Prediction in India
BIJIT BANERJEE	Assessment of PBL Schemes in the WRF Model Using 212.5 MHz Wind Profiling Radar for Boundary Layer Estimation Over Complex Terrain in Northeast India
KrishnaK Osuri	Microphysical Processes and Thunderstorm rainfall and hail
AngelAnita Christy	Radar-derived and simulated analysis of boundary layer evolution and thermodynamical variations during a thunderstorm event over a tropical urban station
MdAwlad Hossain	Assessing WRF-ARW Simulations of the 2024 Feni Flash Flood: A Comparative Study with GPM and BMD Observations









SheikhFahimFaysal Sowrav	Predicting Flood Events Using ARIMA: Statistical Forecasting of Rainfall and Hydrological Trends in the Eastern Bangladesh Flood, August 2024
Apala Majumder	Performance Assessment Of NCEP and ECMWF 6-24-Hourly Rainfall Forecasts Against CMORPH Satellite Data For India
Malay Ganai	Sensitivity of enhanced vertical resolution in the operational Global Forecast System (GFS) T1534 on the short to medium range forecast of Indian summer monsoon
Tanmoy Goswami	Can a 12-km GFS Model Simulate the Observed Relationship between Cloud Optical Properties and Extreme Rainfall of Indian Summer Monsoon?
Marwa Majdi	Development of a Machine Learning System to Emulate WRF Forecasts for Thunderstorm Nowcasting in Support of the North Dakota Cloud Modification Project
Josin Sanal Thomas	Hail growth detection and early warning from dual polarimetric signatures.
Vishal Pathak	Teleconnection between ENSO and Indian Summer Monsoon rainfall in the MMCFSv1 and MMCFSv2
Aditi Singh	Prediction of Planetary Boundary Layer Height (PBLH) in Urban Areas – A Machine Learning Approach
Mandar Nikale	Nowcasting of Convective Rainfall using High-Resolution ART CPol Radar in the Monsoon Core Zone and X-band Radar Network in Mumbai
Reba Halder	Understanding the 2023 Indian Summer Monsoon Through Model- Based Analysis of Rainfall and Circulation
Gaurav Govardhan	Decision Support System for Air Pollution Management in the National Capital of India
Aravindhavel Ananthavel	Early Detection of Severe Storm using Differential Reflectivity from Dual Polarimetric Radar for Nowcasting.
Harshad Hanmante	Convective Clustering and Rain-Type Classification in the Indian Monsoon Core Zone: Insights from Dual-Polarization Radar Observations and WRF Model Simulations
Bhumika Bhumika	Synopticâ€scale circulations and their impact on Extreme Rainfall Events over the North Indian Region.
Nitig Singh	Physics-Based Deep Learning Technique for Urban Rainfall Nowcasting: A Case Study of Multi-Source Data Fusion
Narayan Prasad Gautam	Impacts of tornado and cloud burst rainfalls in Nepal
Session 9	Climate intervention/Marine Cloud Brightening
Sanjib Ghosh	Precipitation in the GBM river basin under G6Sulfur and G6Solar geoengineering scenarios
Ramesh Kumar Yadav	Impact of the Indo-Pacific Warm Pool Warming on Indian Summer Monsoon Rainfall Pattern
SOMNATH MAHATO	Decadal Analysis of LULC Changes in Tamil Nadu and Maharashtra in India (2010-2020)











Steven Siems	Sensitivity of cloud-aerosol interactions to varying aerosol
	emissions and spatial distributions across the Great Barrier Reef (GBR)
Ankita	Trends in Surface Air Temperatures over the Hindu Kush Himalayas
Joao Ribeiro	Response of Winds and Precipitation in Extratropical Cyclones in Experiments with Stratospheric Aerosol Injection
Madhuri Sonawane	Understanding the Impact of Stratospheric Aerosol Injection under GeoMIP6 on the Northern Hemisphere Summer Monsoon (JJAS)
Gokul T	Low clouds over the subtropical Indian Ocean in the Mascarene High environment and sub-seasonal circulation associations with the Indian summer monsoon.
NANDHAKUMAR SK	Atmospheric Impacts of Marine Aerosols: Evidence from South Indian Waters
Session 10	Stakeholder/policymaker/public engagement and communication
Praveen Sreedharan	Harnessing Wind Energy During the Monsoon Season: Opportunities and Challenges for India
Mohit Kumar	Heat Stress Forecast Verification: A trend and variability analysis across time and space
STEPHEN OPIYO	Engineering the Skies: An Overview of African Weather Modification Projects and Their Future Potential
Fatima Akter	Pathways to Develop and Strengthen Community-Based Lightning Early Warning Systems in Bangladesh
Arnab Chakraborty	Cloud Seeding in India: Developments, Effectiveness, Research Growth, and Global Perspectives
Kailash Chand Pandey	Weather-Agro Advisories: Empowering Trans boundary Communities in India and Nepal





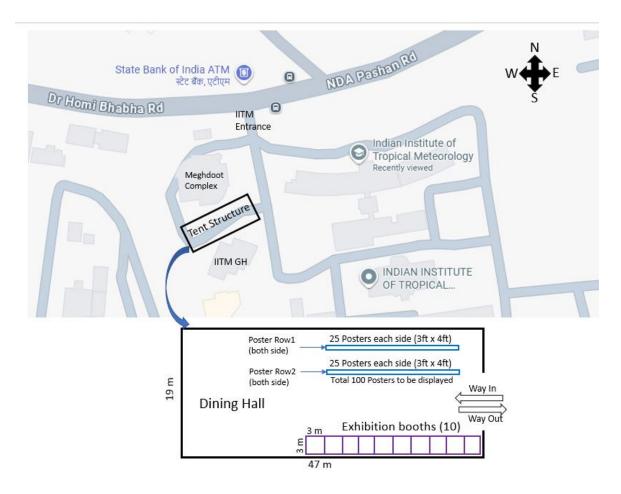








Plan



Oral presentations: Meghdoot Auditorium Audio visuals/ projectors available.

We will require oral presentations to be uploaded before a deadline

On-site: presentation slides should be uploaded one day in advance

We will require ET members to chair oral sessions (will be paired with a local scientist from LOC)

There will be designated young scientists making a summary of the sessions We will request a summary of the poster sessions as well.

Presentation guidelines are available













Poster

Poster boards will be available on site, pins, tapes etc will be available.

It should be 3x4 ft

100 posters can be displayed in the hall outside

100 posters can be in the hall below the Auditorium



Sponsor Booths

3 m x 3 m sized exhibition booth and will have light, internet, 2 chairs, 2 tables

ET Meeting:

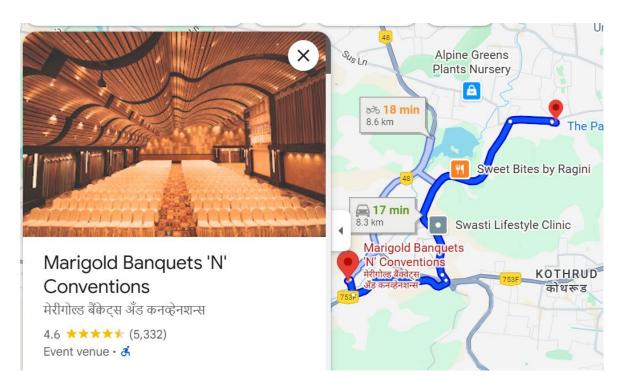
The Separate Hall will be booked and catering will be arranged











The Venue of Ice breaking session and Gala Event