













# Inauguration

#### WORLD METEOROLOGICAL ORGANIZATION

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

Website: <a href="https://wmo-11scwxmod.tropmet.res.in/">https://wmo-11scwxmod.tropmet.res.in/</a>
Email: <a href="mailto:wmo-11scwxmod@tropmet.res.in">wmo-11scwxmod@tropmet.res.in</a>

Venue: Meghdoot Auditorium | IITM Pune | India 3:00 PM - 4:30 PM (IST) | 2<sup>nd</sup> 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

Remarks by Dr. Estelle De Coning, WMO/WWRP

Address by the co-Chairs of WMO ET Dr. Sarah Tessendorf and Dr. Steven Siems

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

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

**Introduction of the Chief Guest** 

Inaugural Address by Chief Guest Dr. Abdulla Al Mandous (WMO President)

Vote of thanks by Dr. Thara Prabhakaran, LOC Chair















## Ice-breaker event

Venue: Goldenrod, Marygold Convention Centre 6:30-8:30 PM (IST) | 2<sup>nd</sup> November 2025

(For Registered Participants and Invitees only)















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

Sponsored by





Invitation



When: 6:30-8:30 PM on 2nd November 2025

Venue

Opp, Windmill Village Rd, Windmill Village, Bavdhan, Pune, Maharashtra 4110













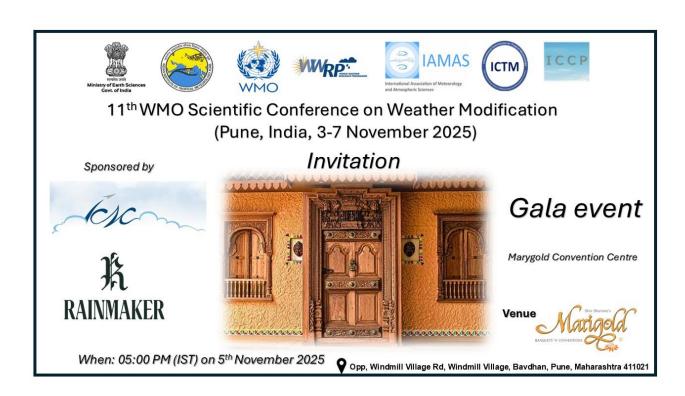


## Gala Dinner

**Venue: Mimosa | Marygold Convention Centre** 

Starting at 05:00 PM (IST) | 5<sup>th</sup> November 2025

(For Registered Participants and Invitees only)

















# ORALS















#### DAY1

Registration: 8:30 hrs (IST) onwards

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

Session Chairs: Dr. Estelle De Coning and Dr. Kamaljit Ray

0930-1000 hrs	Keynote: Jan Henneberger	Seeding Low Stratus Clouds to Understand the Microphysics of Glaciogenic Cloud Seeding
1000-1015 hrs	Narihiro Orikasa	Cloud droplet formation experiments by hygroscopic particle seeding under pristine maritime conditions
1015-1030 hrs	Milin Kaniyodical Sebastian	ROLE OF ISOPRENE-DERIVED SECONDARY ORGANIC AEROSOLS IN THE GLACIATION OF DEEP CONVECTIVE CLOUDS
1030-1045 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
1045-1100 hrs	Group Photo + Break	
1100-1130 hrs	Tea break	

## Session 1: Fundamental aspects of cloud physics as the basis for cloud seeding Part 1 (continued)

Session Chairs: Prof. Jaywant Arakeri, Dr. Thara Prabhakaran

1130-1200 hrs	Keynote: Alya Al Mazroui	UAE Research Program for Rain
		Enhancement Science (UAEREP)















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 the cloud microphysical properties during withdrawal phase of southwest monsoon over Western Ghats, India
1230-1330	Lunch break	

## Session 2: Precipitation enhancement studies in deep convective clouds Session Chairs: Dr. Sarah Tessendorf and Dr S. D. Pawar

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
1415-1430 hrs	Sachin Patade	Investigating Warm and Cold Rain Processes in Mixed-phase monsoon clouds.
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** 

Session Chairs: Dr. Ottmar Moehler and Prof. P. Pradeep Kumar















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 Hail 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	
	Dav	2

#### Day 2

### Session 4: Precipitation enhancement studies in shallow/orographic clouds Part 1

Session Chairs: Prof. Roelof Burger and Dr. Alya Al Mazroui

0930-1000 hrs	Keynote: Sarah Tessendorf	Investigating the potential for winter orographic cloud seeding in the western United States
1000-1015 hrs (Online)	Sisi Chen	Winter Orographic Cloud Seeding in SNOWIE: Insights from an Ensemble Simulation Approach
1015-1030 hrs (Online)	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
(Online)		Scavenging by Ice Layers (POPSICL)
1100-1130 hrs	Tea Break	
Session 5: Precipi	tation enhancement studie	s in shallow/orographic clouds Part II
Sessio	on Chairs: Dr.Ayman Mohmn	ned Albar and Dr. Shiekha
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/Marine Cloud Brightening		
	ssion Chairs: Dr. Jing Duan a	
1330-1400 hrs	Keynote: Steven Siems	Marine Cloud Brightening over the Great Barrier Reef during periods of Coral Bleaching
1400-1415 hrs	Minghuai Wang	Deep Learning Insights on Optimal Conditions for Enhancing Radiative















		On allian Theorems March 1 Of the
		Cooling Through Marine Low Cloud Intervention
		The Oliver Annual Control of the Con
1415-1430 hrs	Vulker Wulfmeyer	The Cloud and Precipitation Reactor
	Oliver Branch	(CPR) - Intelligent land-use change to
	Oliver Brunen	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
1443-1300 1113	Alan Gadian	coded modulation to minimise the risks
		and unintended consequences of
		consequential rainfall perturbations.
1500-1530 hrs	Tea break	
	Session 7: Hazard mitigation	on, fog suppression
	gun.	., год сарр состои
Se	ssion Chairs: Dr. Ali Abshaev	, and Dr. Sachin Ghude
	ssion Chairs: Dr. Ali Abshaev	
1530-1545 hrs	ssion Chairs: Dr. Ali Abshaev	Variability of extreme precipitation
		Variability of extreme precipitation over Niger River Basin under Solar
	Amadou COULIBALY	Variability of extreme precipitation
		Variability of extreme precipitation over Niger River Basin under Solar
1530-1545 hrs		Variability of extreme precipitation over Niger River Basin under Solar radiation modification  Southern Hemisphere extratropical
1530-1545 hrs	Amadou COULIBALY	Variability of extreme precipitation over Niger River Basin under Solar radiation modification
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1530-1545 hrs  1545-1600 hrs  1600-1615 hrs	Amadou COULIBALY  Michelle Reboita  Moumita Bhowmik	Variability of extreme precipitation over Niger River Basin under Solar radiation modification  Southern Hemisphere extratropical cyclones in climate scenarios with and without SAI  The Challenge of Fog Suppression for Weather Management: Theoretical and Model Studies
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Dinner hosted by the

**Director, IITM** 

1730-onwards

Sayaji Hotel















	Day 3	
	Day 5	
Session 8: Eme	erging technologies or new	methods for weather modification
Sess	ion Chairs: Dr. Findy Renggo	no and Dr. Padmakumari
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		
Session Chairs: Dr. Micael Amore Cecchini and Dr. Mahen Konwar		
1130-1145 hrs	Jatan Buch	Optimizing cloud seeding with a denoising diffusion model











engagement challenges and strategies





1145-1200 hrs	Miao Cai	Development of Cloud Parameters with Fengyun Satellites and Its Application in Weather Modification
1200-1215 hrs	Marya Alhomoud	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 10: Stakeholder engagement, ELSI panel talks and discussion Session Chairs: Dr. Sarah Tessendorf, Dr. Omar Al Yazeedi, Dr. Thara Prabhakaran		
1400-1415 hrs	Koji Tachibana	Understanding Different Perceptions of Nature and The Culture-Sensitive ELSI
(Online)		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











Microphysical Analysis





GOVE OF HIGH	******	
1600-1630 hrs	Tea Break	
1630-2000 hrs	Cultural event + Gala dinner	
	Day 4	
aval	anche mitigation, cyclone o	
Sess	ion Chairs: Prof. Steven Siem	s and Dr. Suvarna Fadnavis
0930-1000 hrs (Online)	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	Masashi Minamide	A potential pathway to mitigate tropical cyclone intensification onset through multi-scale nonlinear interaction
1030-1045 hrs	TBD	
1045-1100 hrs		
1100-1130 hrs	Tea Break	
	leather forecasting, and nov	vcasting Decision Support Systems ande and Mr. P. Murugavel
1130-1145 hrs	Caleb Steele	Leveraging GOES-R and HRRR for Cloud Seeding Operations: A Data- Driven Approach to Cloud















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 nowcasting Decision Support Systems  Session Chairs: Dr. Steven Siems and Dr. Anupam Hazra		
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?	















		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	

### Session 14: Inadvertent weather modification (Urban impacts, contrails, pollution dispersion, etc.)

### Session Chairs: Dr. Rajesh Kumar and Dr. Subrata kumar Das

1600-1615 hrs	Chaitali Thali	Assessing the Impact of Maritime Emissions on Coastal Weather Patterns and Environmental Parameters in Indian Ports
1615-1630 hrs	Micael Cecchini	Aerosol impacts on the populational behavior of shallow cumulus clouds over the Amazon
1630-1645 hrs	Rajesh Kumar	Quantifying the contributions of aerosol- radiation interactions contribute to post monsoon air quality problem in New Delhi
1645-1700 hrs	AMAL KK	Investigating Urban Land Cover Effects on simulation of Sea Breeze and Severe convective storms: A Study Over Chennai
1700-1715 hrs	PRACHI KHOBRAGADE	Influence of Land Surface Dynamics on Regional Precipitation Patterns
1715-1730 hr	Break	
1730-1900 hrs	Posters	















	Day 5	
Session 15: Fundam	nental aspects of cloud physi	ics as the basis for cloud seeding Part II
Sess	sion Chairs: Dr. Norikasa and	Prof. Greg McFarguhar
0930-1000 hrs	Keynote: Thara	CAIPEEX - defining opportunity that shaped cloud physics studies in
	Prabhakaran	India
4000 4045		Fuglishing Claud Conding
1000-1015 hrs	Manhal Alhilali	Evaluating Cloud Seeding  Effectiveness in Convective Clouds with
		the Advanced Super-Droplet Method
4045 4020 have	Weigner Live	Introduction of CMA-CPEFS cloud
1015-1030 hrs	Weiguo Liu	seeding model and its application
_	-	
1030-1045 hrs	Mahen Konwar	Identifying the seeding signature in cloud particles from hydrometeor
		residuals
4045 4400 has	Canali Batada	Magguroments of ice nucleating
1045-1100 hrs	Sonali Patade	Measurements of ice nucleating particles over rain shadow region of
		India
1100-1130 hrs	Tea Break	
1100-1130 1113	Tea Dieak	
Session 16: Fundame	ental aspects of cloud physic	s as the basis for cloud seeding Part III
Session Chairs: Ms. Mercy Varghese and Dr. Shivsai Dixit		
1130-1145 hrs	Ottmar Moehler	Development and operation of AIDA
		and PINE cloud simulation chambers
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
Stavros-Andreas Logothetis	Identification of Potential Targets for Glaciogenic Seeding 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
Udaya Gunturu	What factors contribute to the scanty rainfall in arid and desert regions?
Rupraj Biswasharma	Modifications in thunderstorm properties during the COVID-19 lockdown: the role of pollutants and microphysics
lmolemba Longkumer	Seasonal and Diurnal Variability of Raindrop Size Distributions over the Leeward Western Ghats
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 insitu observation of a high-altitude site in Western Ghats, India
Jing Duan	Integration and Comparative Analysis of Remote Sensing and In Situ Observations of Aerosol Optical Characteristics Beneath Clouds
K Shri Vignesh	Significance of adding a small fraction of bigger droplets to enhance droplet size growth in turbulence
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	Aerosolâ€"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
Ioannis Matsangouras	Evaluating Rainfall Enhancement in the Regional Cloud Seeding Program of Saudi Arabia: Summer and Autumn 2022
Ali Abshaev	Results of 5-years rain enhancement experiments using rocket technology
haldaaditya belgaman	A Preliminary Study of Evaluation of Cloud Cell Response to Cloud Seeding: Insights from C-Band Weather Radar Data in East Kalimantan Area, August 17, 2024.
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
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
Oma rav	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
GHORAPADE	Interactions in the Monsoon Core Zone using Polarimetric
	Radar Observations
UdayaKumar	Adaptive Fuzzy Logic Hydrometeor Classification for C-
Sahoo	Band Radar Using Machine Learning-Based Membership
	Function Estimation
CHIRANJEEVI	The first Indian X band dual polarization Doppler Weather
GUTTULA	Radar 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
	challow/oregraphic clouds
Poomi FA	shallow/orographic clouds
Resmi EA	Studying the developments of orographic clouds and
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Raju Attada	Studying the developments of orographic clouds and rainfall: High Altitude Cloud Observations over Western Ghats, India Orographic Precipitation Extremes: Modelling and Observations Microphysical and Dynamical Perspectives of Precipitation Enhancement in Shallow Clouds over the Western Ghats
Raju Attada SUMESH RK	Studying the developments of orographic clouds and rainfall: High Altitude Cloud Observations over Western Ghats, India Orographic Precipitation Extremes: Modelling and Observations Microphysical and Dynamical Perspectives of Precipitation Enhancement in Shallow Clouds over the Western Ghats Orography
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Raju Attada SUMESH RK Rehan Hossain	Studying the developments of orographic clouds and rainfall: High Altitude Cloud Observations over Western Ghats, India Orographic Precipitation Extremes: Modelling and Observations Microphysical and Dynamical Perspectives of Precipitation Enhancement in Shallow Clouds over the Western Ghats Orography Setting up of Sub-km Scale Model over the Southeast Coastal Indian Region
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Devender Bishnoi	Drivers Behind Diminishing Trend of Monsoon Depressions over Bay of Bengal Influencing Monsoon rainfall over India
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
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Sahana CG Analysing the Impact of Summer Monsoon Rainfall Variability on the Agricultural Productivity in Rainfed Regions of Maharashtra and Kamataka  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 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 LANDâc*ATMOSPHERE INTERACTIONS OVER CENTRAL INDIA DURING THE MONSOON SEASON  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 Aashna Verma Projected Variability in Water Availability and Potential-Evapotranspiration under Climate Change over Varanasi District using CMIP6  Praneta Khardekar Probability Distribution Analysis of Indian Summer Monsoon Region  Archana Rai 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 Porja Porj		
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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	Understanding Heat Stress and Prediction Tools for India
Rushikesh Adsul	HighResMIP CMIP6-Based Near-Future Projections of Tropical Cyclone Activity Over the Bay of Bengal
Ganadhi ManoKranthi	Enhancing trends in the Bay of Bengal pre-monsoon Tropical Cyclone size and the underlying physical processes
Amita Prabhu	Suppression of Summer Monsoon Rainfall over North India: The Impact of Indian Ocean Warming, Arctic Sea Ice Decline, and Arctic Amplification
Siddhant Arya	Western Disturbances and Their Role in Extreme Weather Phenomena: A Reanalysis, Satellite and Radar Based Assessment
JENI VICTOR	Aerosol and cloud microphysics alterations and their influence on IGP lightning activity during the COVID-19 Lockdown
Shreyasi	Tibetan Plateau Amplification and its Linkage with Indian
Upadhyay	Summer Monsoon
Halima Akter	Recent trends of cyclonic storm surges scenario in the Southern part of Bangladesh.
Prajna	Disaster Mitigation in the Face of Lightning and Large-
Priyadarshini	Scale Weather Patterns
ShipaRani Singha	Assessment of Agricultural Losses Due to the Severe Monsoonal Flood in the Eastern Bangladesh, August 2024
Neetak Kumar	Climatology of lightning over Indo-Gangetic Plain and its correlation with meteorological indices.
Ying Zhang	Cloud Seeding Effects on Wet Scavenging of Atmospheric Reactive Nitrogen Pollutants: A Numerical Modeling Study
AKSHARA NG	UNDERSTANDING THE RAINFALL STRUCTURE OF SEVERE CYCLONIC STORM MICHAUNG AND ITS PREDICTION
Madhu Kaundal	Seasonal differences in the trend of tropical cyclone characteristics over the Southern Indian Ocean
PragnyaPriyadarsi ni Pradhan	Assessing Storm Surge Hazards in India: A Risk-Based Clustering Approach
MuniraJaman	Spatiotemporal Analysis of Heat Waves and Heat Index
Memy	Escalation Ascribed to Extreme Temperature Increase in
	South-Central Bangladesh (2004–2024)
NAGALAKSHMI KATRU	Role of Genesis Location in the Dynamics of Extremely Severe Cyclonic Storm (ESCS) FANI over NIO
Session 6	Inadvertent weather modification (Urban impacts, contrails, pollution dispersion, etc.)















Sachin Patil	Understanding the Effect of Aerosol Physicochemical Properties on CCN Activation: A Long-Term Observational Study at a High-Altitude Site in India
Betsy KB	Role of Aerosols on Prolonged Extreme Heatwave Events over India and its Implication to Atmospheric Boundary Layer
Partha Pratim Gogoi	Modulation of Urban Microclimate and its Ramifications: A Special Reference to outbreaks of Japanese encephalitis (JE) in Assam, India
Rajmal Jat	Urban Climate and Air Quality Impacts of open Wasteland in Delhi-NCR: A Modelling Study on Heat Mitigation and Pollution Reduction
ATUL KUMAR SRIVASTAVA	Influence of meteorological parameters on aerosol size distribution during the winter fog campaign over Delhi
PRIYAMBADA PALAI	The Impact of Urbanization on Heat Islands
Prabhat Kumar	Assessing the impact of climate change on future extreme temperature events over major cities of Gangetic Plains
RaviRanjan Kumar	Pune's Heat Stress Puzzle: Interplay of Urbanization, Pollution, and Atmospheric Conditions
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 GOPALAKRISHNA	Chemical Characterization and Radiative Forcing of PM2.5 and PM10 in a Central Himalayan Location: A Case Study in Ranichauri
Rhituja Bhorade	Urbanization and Inadvertent Weather Modification Over Delhi
SUNILKUMAR KHADGARAI	Identifying the Extreme Rainfall Hotspots over Mumbai: A special analysis using MESONET.
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 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 System over the Indian Himalayan Region
Tom DeFelice	On the Autonomous Implementation of Operational Rain Enhancement Maneuvers by UAS
Ezhilarasi S	Next Generation Computing: Evolution of HPC, AI Integration, and Usage of Exascale Platforms in Weather Forecasting and Climate Prediction
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
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
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	Machine Learning-Driven Estimation of Superdroplet
Makwana	Growth from DNS Data
Rona MariaSunil	Clustering TEJ regimes and associated rainfall signatures in the Indian summer monsoon
SUNILKUMAR	Synergetic approach to develop multi source precipitation
KHADGARAI	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















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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
Nashinii Hallau	
	Agricultural Drought Prediction and Crop Yield Loss
	Assessment in North Karnataka
Junaid Bin Yousuf	Evaluation of Thermodynamic Indices for Lightning
Р	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
/ ungow unita or moty	evolution and thermodynamical variations during a
	thunderstorm event over a tropical urban station
Apala Majumder	Performance Assessment Of NCEP and ECMWF 6-24-
Apaia Majumuei	
	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?
Kurt Hibert	Development of a Machine Learning System to Emulate
Karembere	WRF Forecasts for Thunderstorm Nowcasting in Support of
	the North Dakota Cloud Modification Project
Josin Sanal	Hail growth detection and early warning from dual
	, ,
Thomas	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
Sadiav Sovaidilaii	the National Capital of India
Aravindhavel	Early Detection of Severe Storm using Differential
Ananthavel	Reflectivity from Dual Polarimetric Radar for Nowcasting.
Harshad	Convective Clustering and Rain-Type Classification in the
Hanmante	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
Ramesh Kumar	Impact of the Indo-Pacific Warm Pool Warming on Indian
Yadav	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	Understanding the Impact of Stratospheric Aerosol Injection
Sonawane	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
NIANIBULALCUM 44 B	associations with the Indian summer monsoon.
NANDHAKUMAR	Atmospheric Impacts of Marine Aerosols: Evidence from
SK Session 10	South Indian Waters Stakeholder/policymaker/public engagement and
36331011 10	communication
Praveen	Harnessing Wind Energy During the Monsoon Season:
Sreedharan	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
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
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### Sessions and Keynote talks

Day 1

Session 1

3-11-2025

Fundamental aspects of cloud physics as the basis for cloud seeding,

Part I

Session Chairs: Dr. Estelle De Coning and Dr. Kamaljit Ray

Keynote: Jan Henneberger

Seeding Low Stratus Clouds to Understand the Microphysics of Glaciogenic Cloud Seeding

Day 1 Session 1

3-11-2025 Fundamental aspects of cloud physics as the basis for cloud seeding, Part

I (continued)

Session Chairs: Prof. Jaywant Arakeri, Dr. Thara Prabhakaran

Keynote: Alya Al Mazroui

UAE Research Program for Rain Enhancement Science (UAEREP)

Day 1 Session 2

3-11-2025 Precipitation enhancement studies in deep convective clouds

Session Chairs: Dr. Sarah Tessendorf and Dr S. D. Pawar

Keynote: Roelof Burger

Enhancing Rainfall from Deep Convective Clouds: Current Science, Operational Challenges, and

**Emerging UAS Technologies** 

Day 1 Session 3:

3-11-2025 Hail mitigation, fog or rain suppression

Session Chairs: Dr. Ottmar Moehler and Prof. P. Pradeep Kumar

Keynote: Ali Abshaev

Glaciogenic seeding impact on radar and lightning characteristics of hail clouds

Day 2 4-11-2025 Session 4: Precipitation enhancement studies in

shallow/orographic clouds

Session Chairs: Prof. Roelof Burger and Dr. Alya Al Mazroui

Keynote: Sarah Tessendorf

Investigating the potential for winter orographic cloud seeding in the western United States

Day 2

4-11-2025

Session 5: Precipitation enhancement studies in

shallow/orographic clouds

Session Chairs: Dr. Ayman Mohmmed Albar and Dr. Shiekha

Day 2

4-11-2025

Session 6: Climate intervention/Marine Cloud Brightening

Session Chairs: Dr. Jing Duan and Dr. Anoop Mahajan

Keynote: Steven Siems [SOSC000221]

Marine Cloud Brightening over the Great Barrier Reef during periods of Coral Bleaching

Day 3

5-11-2025

Session 7: Hail mitigation, fog or rain suppression















	Session Chairs: Dr. Ali Abshaev, and Dr. Sachin Ghude
Keynote: Steven Siems [SOSC Marine Cloud Brightening over	c000221] the Great Barrier Reef during periods of Coral Bleaching
Day 3 5-11-2025	Session 8: Emerging technologies or new methods for weather modification
	Session Chairs: Dr. Findy Renggono and Dr. Padmakumari
Keynote: Jing Duan [SOSC000 Chinese Aircraft Observational Methods in Airborne Detection	Datasets and Research on the Application of Artificial Intelligence Analysis
Day 3 5-11-2025	Session 9: Emerging technologies or new methods for weather modification Stakeholder engagement
	Session Chairs:Dr. Micael Amore Cecchini and Dr. Mahen Konwar
Day 3 5-11-2025	Session 10: Stakeholder engagement, ELSI panel talks and discussion
	Session Chairs: Dr. Sarah Tessendorf, Dr. Omar Al Yazeedi, Dr. Thara Prabhakaran
Panel discussion: Panel : Sara	h Tessendorf, Kala Golden ( please add)
Day 4 6-11-2025	Session 11: Broader applications/hazard mitigation (Eg. Bushfire/forest fire or avalanche mitigation, cyclone or typhoon mitigation, etc.)
	Session Chairs: Prof. Steven Siems and Dr. Suvarna Fadnavis
Keynote: Lulin Xue [SOSC000. Status, Progress, and Direction	272] or of Weather Modification and Regional Climate Intervention Research
Day 4 6-11-2025	Session 12: Weather forecasting, and nowcasting Decision Support Systems
	Session Chairs: Dr. Medha Deshpande and Mr. P. Murugavel
Day 4 6-11-2025	Session 13: Weather forecasting, and nowcasting Decision Support Systems
	Session Chairs: Dr. Steven Siems and Dr. Anupam Hazra
Day 4	Specian 14: Inadvertant weather modification (Urban imports
6-11-2025	Session 14: Inadvertent weather modification (Urban impacts, contrails, pollution dispersion, etc.)
	Session Chairs: Dr. Rajesh Kumar and Dr. Subrata kumar Das















Day 5 7-11-2025 Session 15: Fundamental aspects of cloud physics as the basis for cloud seeding Part II

Session Chairs: Dr. Norikasa and Prof. Greg McFarquhar

Keynote: Thara Prabhakaran [SOSC000002]

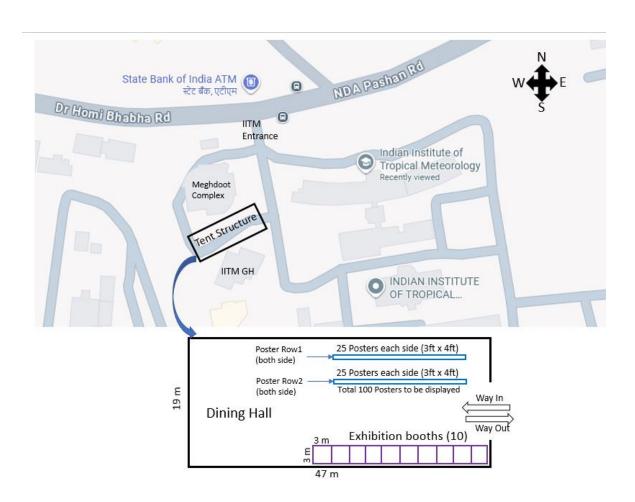
CAIPEEX - defining opportunity that shaped cloud physics studies in India

Day 5 7-11-2025 Session 16: Fundamental aspects of cloud physics as the basis for cloud

seeding Part III

Session Chairs: Ms. Mercy Varghese and Dr. Shivsai Dixit

#### 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





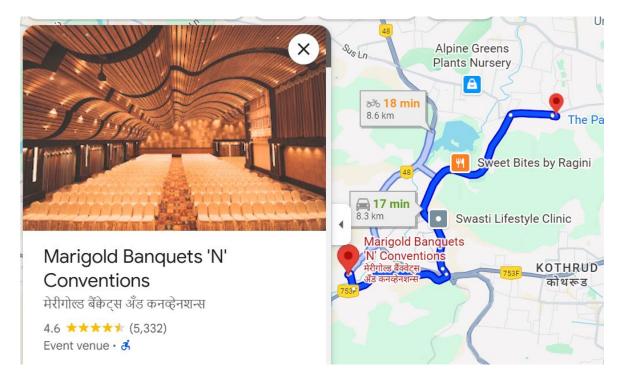












The Venue of Ice breaking session and Gala Event