

Poster Session Day 1: 18 November 2025 (1600 -1830 Hrs)

Last update: 19 Nov 2025 12:00 Hrs

Theme 01: Innovations in Weather Prediction and Early Warning System (WEWS)

Theme 13: Ocean Biogeochemical processes and climate (OBPC)

Theme 15: Polar and Cryosphere Studies (PCST)

Theme 28: Risk and vulnerability of Floods and Droughts in India in a changing climate (RFDIC)

Theme 02: Global and regional Monsoons in a changing climate (RMCC)

Theme 08: Thunderstorm Dynamics (TSDM)

Theme 14: Monsoon Dynamics and Prediction (MDYP)

Theme 23: Biosphere-Atmosphere Interactions (BIOA)

Theme 25: Air quality and health impact (AQHI)

Theme 06: Process studies of Aerosols, Clouds and Precipitation by Observation and Models (ACPO)

**** If your poster has been upgraded to an oral presentation by the session chairs, or if your name appears in both the oral and poster presentation lists, you are not required to prepare a poster. ****

Sr. No.	Abstract No	Theme No	Title of Abstract	Presenting Author
1	104	WEWS	Accuracy assessment of CMIP6 models for projected changes in Temperature and Precipitation over Indian Agroclimatic Zones	Upasana Mahato

2	105	WEWS	Forecasting Seasonal Rainfall Using SARIMAX Model with Temperature Predictors: A Case Study of Haryana, Punjab, and Chandigarh	Ankita Mall
3	120	WEWS	Evaluation of different similarity functions under stable conditions over mountainous region	Shiwam Singh
4	154	WEWS	Hybrid Ensemble-Variational Assimilation of ATMS Satellite Observations for Tropical Cyclone Simulation: A Case Study of Cyclone Dana	Vikas Yadav
5	364	WEWS	Hyper-local Rainfall Simulation Using High-Resolution NWP Models with Different Microphysics Schemes	Gadha Gopan
6	388	WEWS	Compiler-Driven Energy Efficiency in WRF Simulations on HPC Clusters	Pankaj Saini
7	421	WEWS	Real-time subseasonal prediction of anomalous ESCS Biparjoy	Nagalakshmi Katru
8	442	WEWS	Integrating Remote Sensing and Machine Learning for Hydrometeorological Modeling and Flood Risk Prediction in Tamil Nadu (2025–2030)	DAKSHAYANI R N R
9	487	WEWS	Role of physical oceanographic parameters in impacting the cyclogenesis over Indian Ocean	Anuj Gupta
10	580	WEWS	Monsoon Rainfall Prediction in India: A Hybrid Framework Combining Brihat Samhita Insights to Machine Learning Technique	Jaya Yadav
11	784	WEWS	Emergence of large-scale patterns of small-scale vorticity interactions during tropical cyclogenesis	Shruti Tandon
12	903	WEWS	Preventive Maintenance of Automatic Weather Stations in India	Divyesh Deshpande
13	955	WEWS	Long-Term Analysis of Winter Snowfall Patterns in the Western Himalayan Region	Sandhya Ravikiran
14	5	WEWS	Aridity Index as a Robust Indicator for Drought Assessment and Early Warning in India	Soumi Chakravorty
15	335	WEWS	THUNDERSTORM DURATION OVER THE INDIAN REGION DURING SUMMER SEASON	Pradeep sharma
16	170	WEWS	High-Resolution Rainfall Product at 1 km using RADAR, Satellite and Gauge	Rajan Yadav
17	250	WEWS	Spatiotemporal Variability of Heat Stress and Integrating Heat Index into NWP Models for Improved Heatwave Prediction in India	Pooja G. Bole
18	76	WEWS	Potential of INSAT-3DS Sounder in detection of Extreme events like Thunderstorm	Tapan Ka Patel
19	285	WEWS	Performance Evaluation of Bharat Forecast System (BharatFS) Rainfall and Surface Wind Forecasts over India during the 2025 Monsoon	M. T. Bushair

20	7	WEWS	Impact of Initial Conditions and 3DVAR Assimilation on Lightning and Thunderstorm Events using WRF Model and Lightning Forecasting Algorithm (LFA) over Three Distinct Regions	Anjesh R R
21	604	WEWS	Quantifying Extreme Rainfall Risk through a Probabilistic Forecast Index based on NEPS-G and Return Level Thresholds	ABHIJITH V
22	821	WEWS	Do Ensemble-Derived Cones of Uncertainty Improve Tropical Cyclone Track Guidance? A Dynamic Approach	Gauri Shanker
23	157	OBPC	Evaluation of Ocean Transport in IITM ERPAS (ERPv2) Using CFC as a Tracer.	Tanvi Nandan Desai
24	960	OBPC	Vertical Variability and Forcing Mechanisms of Phytoplankton in the Central part of Eastern Arabian Sea: Insights from Bio-Argo observation	Madhurima Paul
25	406	PCST	Understanding the drivers of the Record-Low Arctic Sea Ice Extent in 2012 and its recovery in 2013	Suchithra Sundaram
26	600	PCST	Strengths and Limitations of ERA5 and MERRA2 in Capturing Antarctic Upper-Air Conditions	Vivek Kumar
27	1003	PCST	Six Decades of Glacier Change in Western Sikkim, Eastern Himalaya: Insights from Multi-Temporal Remote Sensing and Geodetic Analysis (1969–2023)	Shubhendu Karmakar
28	99	PCST	Observation of Halogen Compounds in the Arctic	John V. Devassy
29	500	PCST	Oceanographic changes due to Ice Shelf Melting in the Prydz Bay region of the Indian Sector of the Southern Ocean	Aswathi Das M. T.
30	84	PCST	Drivers and Characteristics of Marine Heat Waves and Cold Spells in the Bay of Bengal	Rama Kanta Nayak
31	116	PCST	Circulation and Overflow Variability in the Denmark Strait during Boreal Summer	Kiran VG
32	67	RFDIC	Extended Range Prediction of Droughts using SPI & SPEI and its Performance Validation	Nilesh Wagh
33	529	RFDIC	CMIP6-based assessment of temperature-driven projected changes in precipitation and drought severity over the west coast of India	Sreekumar Haridas
34	541	RFDIC	A diagnostic analysis of the large-scale flood in Krishna River Basin during the summer monsoon of 2024	Roma Varghese
35	755	RFDIC	Spatiotemporal Assessment of Agricultural and Meteorological Droughts in Tamil Nadu	Guruanand C
36	437	RFDIC	A Bayesian Regional Streamflow Forecasting System for Flood Risk Management in Ungauged Peninsular Indian Catchments	Vemuri Harini

37	478	RFDIC	Assessment of Historical Floods and Inundation Extents in Bangalore Using an Integrated Modelling Framework	Preethi Alle
38	394	RFDIC	Fidelity of RegCM in simulating drought events	Hari Shankar Patel
39		RFDIC	Riverine Hazard as Social Phenomena: An integrated study of Ghaghra riverine hazard and internal side of social vulnerability in Bahraich district, UP.	Akansha Yashasvi
40	699	RFDIC	Drought Vulnerability in Vidarbha, Maharashtra: Assessment under Observed and Projected Climate Scenarios	Anurag R. Marwade
41	19	RMCC	Extreme Synoptic Scale precipitation events during North East Monsoon 2023 and its associations with the Positive Indian Ocean Dipole Extreme Synoptic Scale precipitation events during North East Monsoon 2023 and its associations with the Positive Indian	Gokul T
42	29	RMCC	Towards a Physics-Based Understanding of Opposing Trends of Seasonal and Extreme Monsoon Rainfall for Their Reliable Projections	Shreeya Nadgowda
43	54	RMCC	Spatio-Vertical Evolution of Latent Heating in the South Asian Monsoon: A Two-Decade Satellite-Reanalysis comparison	Tiasha Dev
44	147	RMCC	Projected Changes in the Indian Summer Monsoon Intraseasonal Variability in a Global Warming Scenario	SAUMYA RASTOGI
45	196	RMCC	Changing Patterns of the South Asian Monsoon in a Warming Climate	Soumyajyoti Jana
46	212	RMCC	Synoptic Features associated with onset of summer monsoon over Coastal Andhra Pradesh	Sari Divya
47	219	RMCC	Emerging East-West Dipole Pattern in Indian Summer Monsoon Rainfall and its Associated Shift in Dynamics	Akshara Satheesh
48	241	RMCC	Evolving Diurnal characteristics of Precipitation over the North Bay of Bengal and East Equatorial Indian Ocean in Recent Decades	Patita Kalyana Sahoo
49	276	RMCC	Land Use Land Cover Changes and its impact on Indian Summer Monsoon	Priya P
50	297	RMCC	Clusters of Indian Summer Monsoon Rainfall and Their Synoptic Drivers	Aditi Deshpande
51	339	RMCC	Eurasian Soil Moisture as a Potential Predictor of Indian Summer Monsoon Rainfall in a changing Climate	Nishant Gautam
52	439	RMCC	Interannual Variability of Global Monsoon: Precipitation Variance Budget.	Soumyadeep Roy
53	655	RMCC	Declining Peak Monsoon Rainfall Over North India in a Warming Climate	Madhusai Singuru

54	661	RMCC	Variability of climatological parameters over hill stations in India	Aathira Maria Jose
55	698	RMCC	The Role of Tropical Synoptic-Scale Disturbances in Modulating the Strength of East Pacific Hadley Circulation	Pratiksha Priyam Baruah
56	732	RMCC	Understanding the projected global and regional monsoon precipitation changes	Aswin Sagar
57	782	RMCC	Advances in the Simulation of Monsoon Intraseasonal Oscillations and Low-Pressure Systems in IITM-ESMv3	Praveen V
58	789	RMCC	Coupled Influence of Tibetan Plateau Heating and Arctic Oscillation on Indian Summer Monsoon Variability	Shreyasi Upadhyay
59	790	RMCC	Statistical Investigation on the Trends and Variabilities of Rainfall in the Coastal Districts of Tamil Nadu	K. Nasrutheen Sha
60	807	RMCC	Diurnal Cycle of Indian Summer Monsoon Rainfall in a Changing Climate	THANANGKA CHUTIA
61	869	RMCC	Stable Isotope Variability of Rainfall during the Summer Monsoon in Ganga Basin	Amey Datye
62	902	RMCC	Synergistic Influence of the Southern Annular Mode and Atlantic Ocean on West African Summer Monsoon Rainfall	Siddhant Arya
63	1013	RMCC	Impact of the Indo-Pacific Warm Pool Warming on Indian Summer Monsoon Rainfall Pattern	Ramesh Kumar Yadav
64	626	RMCC	Spatio-Temporal Variability and Changing Cloud Regimes over India and Northern Mountainous States: 1941–2023	Deepak Singh
65	235	RMCC	Spatiotemporal Variability of Precipitable Water and Its Influence on Rainfall over the Indian Subcontinent (1990–2024)	Anindya Kumar Gogoi
66	239	RMCC	EVALUATION OF THE INDIAN SUMMER MONSOON RAINFALL OVER THE EASTERN INDIAN REGION AND ITS SIMULATION FROM GFS T1534 MODEL	Saranya J
67	765	RMCC	Investigating the spatio-temporal structure and variability of active and break spells over Indian region during the post 1951 period	Anjana V S
68	791	RMCC	Long-Term Trends and Spatial Variability of Extreme Rainfall Events in Kerala (1950–2023)	LAXMI PATHAK
69	144	RMCC	Regional Monsoons under Climate Change: A High - Resolution perspective in a global context	Abhinav Anand E
70	596	RMCC	Accelerating Greenland Ice Sheet Melt and Its Impact on South Asian Summer Monsoon	Shrayasi Samanta

71	221	RMCC	Investigating the Multi-Decadal Relationship Between Indian Ocean Dipole and Indian Summer Monsoon Rainfall in CMIP6 Models	Mudit
72	712	RMCC	Challenges In Climate Modeling: Poor Predictive Skill For Seasonal Rainfall In Central India	Sabir Ali
73	228	TSDM	Potential of Differential Thermal and Moisture Advection as Guidance tools for Thunderstorm Forecasting	Ishita Sarkar
74	317	TSDM	Spatial Variability of Lightning Flashes and Atmospheric Drivers of Convection During Pre-monsoon And Monsoon Thunderstorms Over India	Naman Prakash Rai
75	591	TSDM	Insights into the Diurnal Variability of Thunderstorms in Eastern India	Trushnamayee Mallick
76	658	TSDM	Sensitivity of Turbulent and Microphysical Schemes in ICON for Deep Convection: Vertical Transport and Model–Observation Comparison	Hemanth Kumar Alladi
77	659	TSDM	Falling Trend of Winter Lightning over Western India and its Possible Relation with Western Disturbances	Abhijeet Gangane
78	754	TSDM	A case study of hailstorm over Umiam to understand the relationship between microphysical and electrical characteristics	Lapynsuk Thabah
79	844	TSDM	Impact of land use land cover and topography on lightning distribution over north and north-east Indian region	Swapnil S Potdar
80	920	TSDM	WRF Model Sensitivity to Cumulus and Microphysics Configurations for Extreme Rainfall in Complex Terrain	Nandivada Umakanth
81	926	TSDM	Understanding the long-term trends in thermodynamic instability indices and their optimum values for thunderstorm prediction over India	SUDEEP KUMAR B L
82	944	TSDM	Investigation of the polarimetric radar estimated dynamical and microphysical storm structure affecting lightning flash rate over the core monsoon zone	Rakesh Ghosh
83	792	TSDM	Internal Variability in Monsoon Depressions: Contrasts Between Northeastward and Northwestward Tracks	Samudra Jit Boruah
84	708	TSDM	Multi-instrument investigation of a thunderstorm-induced muon flux suppression on 20 March 2020 using the GRAPES-3 telescope, electric field measurements, lightning detection, and INSAT-3DR observations	Pranaba K Nayak

85	716	TSDM	Spatio-temporal variability and dynamics of lightning incidents and fatalities in India	AMARENDRA CHAUDHARY
86	14	MDYP	Vertical Evolution and Convection Coupling of Equatorial Waves in the high resolution global atmospheric model Bharat Forecast System	Himabindu H
87	35	MDYP	Investigation of convective features and their influence on the precipitation efficiency of the monsoon convection	Jagdish Jena
88	41	MDYP	Spatial variability of rainfall using MESONET & Satellite observations over Mumbai City	Chiranjeevi Guttula
89	50	MDYP	Southern Annular Mode Indian Summer Monsoon Teleconnections: Indian Ocean pathways	Rose Raphel
90	71	MDYP	The Role of Land Initial Conditions on Seasonal Forecast of Boreal Summer Monsoon Rainfall	Yashas Shivamurthy
91	74	MDYP	Non-linear scale interactions and their role in Indian summer monsoon	DHISHANA P R
92	80	MDYP	Investigating the interaction between convectively coupled waves and localized convection over the southeast coast of India	Shruti Saini
93	124	MDYP	SODAR Observations of Wind Vector Dynamics in the Lower Atmosphere during the 2020 Monsoon	Rani Pawar
94	136	MDYP	Vertical Structure of the Monsoon Low-Level Jet: Insights from Observations, Reanalysis, and LES Simulations	Harish Choudhary
95	187	MDYP	Characteristics of recycled precipitation during Indian summer monsoon	Rupali Bhangale
96	199	MDYP	Diurnal Variations of Surface Variables in Observations vs. IMDAA	Deepika Rai
97	205	MDYP	Modulation of Monsoon Intra-Seasonal Variability by Air-Sea Interaction	Krishnendu E
98	251	MDYP	Evaluation of GFS T1534 Model for Predicting Northeast Monsoon Rainfall over Indian Region	Madhuri Bhattacharyya
99	274	MDYP	Improved rainfall simulation using a stochastic and unified cloud and convection parameterization scheme in a Single Column Model framework	Snehlata Tirkey
100	307	MDYP	Regional Contrasts in MJO Convective Initiation over the Indian Ocean	Daniel Simon
101	322	MDYP	Role of Western North Pacific in ENSO–ISMR Teleconnections in MMCFSv2	Vishal N Pathak
102	331	MDYP	Evaluating Seasonal Prediction Skill of Dynamical Models for Indian Summer Monsoon Rainfall: A Comparative Analysis of C3S and NMME Ensemble	SWAPNILKUMAR KORI

103	334	MDYP	Missing summer westerly jet barotropic governor effect explains climate models - observation discrepancies in the Indian monsoon trends.	Mahendra Nimmakanti
104	340	MDYP	Unraveling the Mechanisms of ISMR Extremes in CMIP6 Models: Impacts of Cloud Processes and Convective-Large-Scale Rainfall	Pribin K P
105	370	MDYP	Understanding the Dynamics of above-Normal Indian Summer Monsoon Rainfall under Neutral ENSO-IOD Conditions: A Case Study of 2024	Neha Rani
106	464	MDYP	Analysis of Structure and Dynamics of Monsoon Depression using High Resolution Model	Imamah Ali
107	481	MDYP	Applying Energetics theory to explain the decoupling between the Energy Flux Equator and ITCZ	Oishi Chakraborty
108	550	MDYP	Thermodynamic Controls of Monsoon Intraseasonal Oscillations: A Moist Static Energy Analysis	POULAMI CHATTOPADHYAY
109	569	MDYP	Mechanisms of Intra-Seasonal Variability Biases in the Indian Summer Monsoon: Insights from CMIP6	Ritesh Jha
110	574	MDYP	Can the South Asian Summer Monsoon Influence ENSO?	Archana Rai
111	585	MDYP	Kinetic Energy and Potential Vorticity Budgets of the Somali Jet during Active and Break Phases of the Indian Summer Monsoon	Nabankur Majumder
112	597	MDYP	From Laboratory TBLs to the Atmosphere: Drag Scaling in the Truly Neutral Boundary Layer	Abhishek Gupta
113	610	MDYP	Organisation of Convection and it's lifecycle in the Monsoon core zone	Soumili Chakraborty
114	679	MDYP	Sensitivity of Convective Parameterizations in Short and Medium Range Weather Prediction over India using Bharat Forecast System (BharatFS)	Sruthi M K
115	695	MDYP	Intra-seasonal Fluctuation of Indian Summer Monsoon Rainfall 2023	Reba Halder
116	706	MDYP	Exploring Stratosphere-Troposphere Coupling: QBO Influence on Indian Monsoon Subseasonal Variability	Shubham Waje
117	720	MDYP	Turbulent scale modulation within atmospheric boundary layer	Shibani Bhatt
118	727	MDYP	Regional Performance of Multiple Coupled Models in the Seasonal Prediction of Indian Summer Monsoon Rainfall	Nanaji Rao Nellipudi

119	729	MDYP	Energetics of Indian Summer Monsoon Variability under ENSO-IOD Interactions: A Composite Analysis Using ERA-Interim Data	Pallavi Prabhu
120	737	MDYP	Sensitivity of enhanced vertical resolution in the operational Global Forecast System (GFS) T1534 on the short to medium range forecast of Indian summer monsoon	Malay Ganai
121	764	MDYP	2022 deficient Indian summer monsoon rainfall over Gangetic Plain	Priyanka Maraskolhe
122	830	MDYP	Multivariate Probabilistic tracking of ITCZ over the South Asian monsoon domain	Priya Kumari
123	864	MDYP	Advancing the South Asian Summer Monsoon Simulation Using Model for Prediction Across Scales (MPAS) with Variable Resolution Mesh	Debjit Paul
124	888	MDYP	Intraseasonal Dynamics of the Indian-Sahelian Monsoon Teleconnection	Abhishek Bordoloi
125	895	MDYP	Indo-Pacific Teleconnection and their influence on ISMR in CMIP6 coupled models	Ganesh Bashwara V
126	918	MDYP	Role of Equatorial convection in controlling BSISO's northward propagation in the present and future climates.	Aditya Kottapalli
127	942	MDYP	Influence of Tropical Cyclones over the North Indian Ocean on Delayed Monsoon Onset over Kerala during 2023	Priti Kumari
128	448	MDYP	Decadal prediction skill for Boreal spring surface air temperature over India in CMIP6 models	Kethavath Lakshma
129	390	MDYP	QUANTITATIVE ANALYSIS OF LAND-ATMOSPHERE COUPLING OVER CENTRAL INDIA	Suparya Sonalika Raj
130	150	MDYP	Indian Monsoon Responses to Multi-year ENSO Events: Observed Mechanisms and CFS Model Assessment	Silpa Wilson
131	642	MDYP	Investigating the Role of Extratropical Eddies in Monsoon Onset	Meenakshi R. S
132	1335	MDYP	High Frequency Monsoon Oscillations in Kilometer Scale Global Models: from Synoptic Variability to diurnal precipitation	Anusha Sunkisala
133	511	MDYP	Does the phase of monsoon convection over Kerala hold the key to MISO phases over the core monsoon zone?	Rona Maria Sunil
134	1059	MDYP	Prediction of Onset Monsoon over India with the relation of Ingress of planets in Constellations.	Mukund Moholkar
135	644	MDYP	Toward Improved Monsoon Forecasting: Process-Oriented Diagnostics for Enhanced Representation of Tropical Convection	Smrutishree Lenka
136	435	MDYP	Combined Influence of ENSO and MJO on Indian Summer Monsoon Rainfall Variability	Riddhi D.Prajapati

137	27	BIOA	Radiative Fluxes Over the Himalayan Region: Evaluating the Parameterization Schemes and Exploring the Potential of the XGBoost Machine Learning Tool for Downward Longwave Radiation	Mayank Chauhan
138	113	BIOA	Meteorological Drivers of Carbon Exchange in an Indian Mangrove Ecosystem from Eddy Covariance Observations	SHREYASI PAUL
139	118	BIOA	Spatio-Temporal Patterns of Daily XCO ₂ over the Indian Subcontinent Using High-Resolution Machine Learning Downscaling of OCO-2 Observations	Bhvisy Kumar Yadav
140	183	BIOA	Diurnal Accumulation of Net Radiation and its Role in Energy Partitioning and Carbon–Water Flux Dynamics Across Agroclimatic Zones	DISHITA PRASAD
141	220	BIOA	Long-Term Greenhouse Gas Monitoring in India: Insights from In-situ Measurements, Satellite Comparisons, and Flux Observations	SREENIVAS GADDAMIDI
142	415	BIOA	Characterizing Low-Pressure Systems in Central India Using Tall-Tower AWS Observations	Smrati Gupta
143	470	BIOA	Deciphering the fossil fuel and biospheric CO ₂ contributions using radiocarbon at a suburban site in the Indo-Gangetic Plain	Vimal Jose Vazhathara
144	558	BIOA	Inter-annual Variability and Trends of Surface Solar Radiation over India in Relation to Cloud Fraction and Top-of-Atmosphere Radiation	Manasa Mallavalli
145	578	BIOA	Eddy covariance based - CO ₂ and H ₂ O vapor flux over paddy grown on lateritic soil in Kharagpur, Eastern India	Ankit Shekhar
146	744	BIOA	Understanding the temporal evolution of atmospheric methane using real-time measurements at a suburban station over Northern India	Shalini Yadav
147	753	BIOA	Seasonal drivers and source attribution of greenhouse gas variability at a high-altitude background site in the Western Ghats.	Archana Sudhir Pawar
148	767	BIOA	A Land Model-Based Assessment of Gross Primary Productivity at an Eddy-Covariance Flux Tower Site in Kaziranga National Park, Northeast India	Masud Kawsar
149	772	BIOA	Eddy Covariance Observations of CO ₂ and H ₂ O Flux Dynamics in a Semi-Arid Tropical Ecosystem of Central India	Hari Om

150	808	BIOA	High-Resolution In-Situ CO ₂ , CH ₄ , and CO Concentration Measurements at Multiple Heights in a Monsoon Core Zone, Central India: Temporal Variability, Meteorological Influences, and Source Apportionment	PRIYABRATA NANDI
151	819	BIOA	Quantifying High Spatiotemporal Variability of Background CO ₂ Inferred from CO–CO ₂ Relations over India	Jitender singh
152	865	BIOA	A comprehensive assessment of terrestrial biospheric carbon dioxide fluxes in India with the OCO-2 satellite column retrievals	Emili Singha Roy
153	919	BIOA	Improving MODIS-Derived Vegetation Productivity Estimates in India by Accounting for the Direct Effect of CO ₂ Fertilization	Ripan Das
154	576	BIOA	Spatio-Temporal Dynamics of Net Ecosystem Productivity over India during 2001-2024	Lipsa Shibu
155	751	BIOA	Vegetation-Driven Circulations and Their Modification During Heatwaves: Downwind Impacts of Semi-Arid Forests in Peninsular India	Devosmita Sen
156	977	BIOA	Dynamics and future projections of Indian forest carbon stocks under different emission pathways using CMIP6 and LPJ-GUESS	Fathima Fitha J
157	741	BIOA	Mapping Seasonal Variability of Land–Atmosphere Coupling Strength Across Agro-Climatic Zones of India	Aritra Bandopadhyay
158	930	BIOA	Understanding the dynamics of Surface energy budget of a glaciated catchment of Western Himalaya	Mohd Ilyas
159	430	BIOA	Vegetation Dynamics in India: Spatiotemporal Trends and Climatic Driver Impacts	Josna Joseph
160	52	AQHI	Critical role of meteorology in mitigating the impact of pollutants from landfill fire at the Brahmapuram municipal solid waste treatment plant, Kochi, India	Pritam Das Mahapatra
161	72	AQHI	Source Attribution and Human Health Risk Perspectives of Wintertime Particulate-Bound PAHs in Northeastern India	Pratibha Vishwakarma
162	88	AQHI	Unraveling the surface chemistry and toxicological profile of atmospheric particulate matter: Insights from in vitro and in vivo studies	Nazrul Islam
163	95	AQHI	A Novel ANN Approach for Predicting Multi-Site ILCR from Weather Parameters and PM _{2.5} Concentrations	Shivam Singh
164	117	AQHI	A Dynamic Air Quality Ensemble for Probabilistic Air Quality Predictions for the New Delhi Region	Rajmal Jat

165	148	AQHI	Quantitative Assessment of Air Pollutant Trends and Meteorological Influences in the Himalayan Foothills in Uttarakhand, India	Amar Deep
166	186	AQHI	Analysing the role of environmental communication with respect to CAQM policy on Delhi air quality	Swamini Pandit
167	218	AQHI	Forest fire-driven green-house gas emissions in South Asia	Kumari Aditi
168	240	AQHI	The long-term pollution study based on trace metals preserved in tree rings from the Western Himalaya	Uttam Pandey
169	262	AQHI	Simulating the Atmospheric Fate of Stubble Burning Emissions in Northern India: Role of Plume Rise Dynamics and Aerosol Optical Properties	Sumit Kumar
170	325	AQHI	Methane over India – an overview of available in situ observations and satellite comparison	Simran Jeet Kaur
171	354	AQHI	Invisible Threats in the Air: Characterization and Health Risk of Microplastics in Delhi NCR	Molla Nageswar Rao
172	491	AQHI	Quantification the varying inter-relation of NO _x and Ozone due to Thunderstorm activity over Kolkata	Ishita Sarkar
173	546	AQHI	Analysis of NO, NO ₂ , O ₃ , and PM Variability and Their Meteorological Drivers in Delhi region	Harshita Saxena
174	774	AQHI	Characterizing Background Pollution Over the Indian Region	Smaran Maji
175	781	AQHI	Microplastic Contamination, Microbial Diversity, and Soil Health Risks in the Indian Sundarbans: Insights from Redox-Dependent Intertidal Zones	Shouvik Mahanty
176	978	AQHI	Air quality and health impacts during winter	D Rajan
177	510	AQHI	Particulate Matter in the Central Himalaya: A Review of Seasonal Variability, Sources, and Air Quality Implications	Saraswati Rawat
178	742	AQHI	Climate Change and Dengue Dynamics: Temperature-Sensitive EIP as a Predictor for Future Risk in India	Aliza Parveen
179	669	AQHI	Half Decadal Urban Air Quality Trends and Variations Over Two Environmentally Distinct Regions in India	Satwik Bhat
180	1061	AQHI	MAPAN: A Strategic initiative for Air Pollution monitoring across India	Abhilash Panicker
181	237	AQHI	Airborne Endotoxins in PM ₁₀ : Chemical Signatures and Human Health Impacts	Vivek Saraswat

182	692	AQHI	Application of silver doped titanium dioxide nanoparticles in textile waste water treatment	S. G. Velhal
183	9	ACPO	Rainfall duration and diurnal variability over Mumbai Metropolitan region during the Indian Summer Monsoon from rain gauge network	Lakshminarasimha Naidu Kankanala
184	11	ACPO	Importance of aerosol hygroscopicity in cloud and precipitation processes: An Integrated Perspective from observation to modeling	Avishek Ray
185	16	ACPO	Seasonal variations of aerosol optical properties and meteorological influences over Ahmedabad	Bhavesh Kuli
186	25	ACPO	Evaluation of an In-Situ PM _{2.5} Sensor Network over the Central Himalaya: Integrating Observations, Reanalysis, and Episodic Events	Vikas rawat
187	38	ACPO	Cloud properties and Thermodynamics during the transition to monsoon over the Rain shadow Region.	Aishwarya Kanase
188	108	ACPO	Unraveling the Role of PAHs in Shaping Primary and Secondary Brown Carbon Absorption in Eastern India's Semi-Urban Atmosphere	Prerna Thapliyal
189	114	ACPO	Multi-site observations of black carbon over Indian India: Spatial variability, Sources, and climate Implications	Subrata Mukherjee
190	146	ACPO	Future responses of summertime rainfall to aerosol under warming environment	Vikram Raj
191	153	ACPO	Drivers of Aerosol Hygroscopicity: The Dominant Role of Ammonium Sulfate in the Eastern IGP	Seema Prajapati
192	165	ACPO	New particle formation contribution in CCN concentrations over a rain-shadow region, India	Karan Singh
193	203	ACPO	Observed Turbulence Characteristics During Winter Fog Events: A WiFEX case study over IGI Airport, New Delhi	Priyangshu Choudhury
194	232	ACPO	Influence of Aerosol Mixing State on Hygroscopic Growth and Fog Formation in New Delhi: Insights from HTDMA Measurements	Chaitrali Shinde
195	243	ACPO	Assessment of Simulated Carbonaceous Fine Particulate Matter in Northwest and Northeast Region of India Using WRF-Chem with SAFAR & EDGAR Inventories	PRAVEEN KUMAR
196	266	ACPO	Synergistic impacts of cloud properties and dynamics on Indian Summer Monsoon Rainfall prediction skill	Moumita Bhowmik

197	323	ACPO	Physical properties of aerosols during the transition to monsoon over a rural location in Central India	Leena P P
198	333	ACPO	A Comparative Study of Rainfall Microphysics over Kochi, Bhopal and Kolkata Along the Spatial Propagation of Indian Summer Monsoon (ISM).	Dinadev Sahaj
199	349	ACPO	Assessing the Relative Contributions of Cloud Condensation Nuclei and Ice Nuclei on Heavy Monsoon Precipitation	Rituparna Chowdhury
200	362	ACPO	Fog Microphysics: WRF-Based Simulation and Validation of Fog Droplet Size Distributions	Sandhya Jose
201	417	ACPO	Real-time vapour isotope observation in Western Ghats: Implication to near surface processes	Nandhini A
202	476	ACPO	Understanding the processes controlling long-term and interannual isotopic variability of rainwater in the Western ghats	Anbarasu Subramaniyan
203	486	ACPO	A case study on the boundary layer moisture exchange processes in the cloud formation over a tropical coastal station in North East Monsoon region	Sanjay Kumar Mehta
204	494	ACPO	Aerosols and tracer variations and their role on the cloud nucleation during the transient monsoon conditions	Sanjay Kumar Mehta
205	500	ACPO	Seasonal and Episodic Variability of Ice-Nucleating Particles in the Western Himalayas	Amit Singh Chandel
206	523	ACPO	Process-Based Understanding of Aerosol-Cloud Interactions and Rainfall Tendencies: An Observational and Empirical Learning.	Samruddhi Metangley
207	528	ACPO	Source regions of aerosol over Arabian sea and Bay of bengal during southwest monsoon inferred from HYSPLIT back trajectories	Aiswarya B
208	555	ACPO	Seasonal Variability of Atmospheric Boundary Layer Height and Aerosol Optical Depth over India: Insights from ERA5 and MERRA-2	HIBA P
209	588	ACPO	Phyllosphere Microbes and Ice Nucleation: Role of Pseudomonas fluorescens in Bio-precipitation and Tomato Crop Microclimate Regulation	Guna M
210	663	ACPO	Influence of COVID-19 lockdown on lightning characteristics over wet northeast and dry northwest regions from Indian subcontinent	Sanjeev Kumar
211	684	ACPO	Aerosol–Cloud Interactions in MISO Variability: A Key to Better Monsoon Forecasts	Arya V.B
212	704	ACPO	Rain Isotopic Dynamics of Bay of Bengal Region	Sreeshma K

213	746	ACPO	Synergistic Effects of Meteorology and Pollution on Fog Intensification over Delhi: A case study	Chinmay Kumar Jena
214	842	ACPO	The impact of aerosols on lightning activity over different parts of India	Swapnil S Potdar
215	884	ACPO	Impact of New Particle Formation on Cloud Condensation Nuclei at a High-Altitude Site in the Western Ghats	Pallavi Padwal
216	927	ACPO	Effect of the meteorological parameters on volume aerosol size distribution over Northern India	Sarvan Kumar
217	952	ACPO	Observational Insights into Source-Resolved Black Carbon Across Indian Cities Using AE33 Aethalometry	Vivek Kumar
218	151	ACPO	Determinants of Aerosol Liquid Water and Its Role in Worsening Air Quality	Indra Mohan Nigam
219	68	ACPO	Assessment of GPM IMERG Precipitation Estimation during Tropical Cyclone Shaheen (2021) over Oman	Badriya Al Mawali
220	310	ACPO	Linking Aerosol Physico-Chemistry to Cloud Microphysics: Insights from High-altitude Observations in the Western Ghats, India	ARINDAM DAS
221	497	ACPO	Black Carbon in the Central Himalayas: Diurnal Patterns, Sources, and Implications for Air Quality Management	Aman Deep Vishwkarma
222	956	ACPO	Drivers of surface ozone variability over a Tropical Coastal Semi-Urban Site in Southern India	Revathy S. Ajayakumar
223	839	ACPO	Decreasing trends in optical properties of thin and thick Cirrus Clouds obtained using Ground and Space-based Lidar observations	Riya Mol P
224	886	ACPO	Aerosol loading in different environment settings over India: Results from Skynet-India Network of India Meteorological Department	Rahil Akram
225	618	ACPO	Role of aerosols on the vertical growth of fog over the Indo-Gangetic Plain	N. Arun
226	821	ACPO	In-situ observation of microphysics of clouds during transition to monsoon over Western Ghats, India	Reva Khot
227	180	ACPO	Variability of Aerosol Hygroscopicity and Its Influence on Fog and Haze Formation in New Delhi	Rageeny Moyee Singha
228	217	ACPO	Spectral analysis of aerosol types and optical properties over Delhi region of India utilizing Sky Radiometer based measurements	Lakshmi

229	797	ACPO	Aerosol-cloud interaction observed in the mixed-phase cloud using ground-based, in-situ, and satellite observations	Trishna Bhattacharya
230	96	ACPO	Investigating the annual variability of coarse mode aerosols over a rain shadow region	Akshaya B Nair
231	31	ACPO	Spatial and Temporal Trends of Particulate Matter and Associated Meteorological Influences	Neelam Chaudhary
232	248	ACPO	Raindrop size distribution and rainfall characteristics during pre-monsoon and Monsoon over Noida using RD-80 Disdrometer	Siddhi Lad
233	538	ACPO	Role of turbulence in droplet size growth during the onset of precipitation in warm clouds	K Shri Vignesh
234	192	ACPO	Long term precipitation chemistry trends at two island locations in north Indian ocean: Minicoy and Port Blair	P Rohini
235	720	ACPO	Sensitivity of Rainfall Forecasts to Microphysics Parameterizations in WRF: A Case Study over Tamil Nadu during the December 11–12, 2024	Y. Sujatha

Poster Session Day 2: 19 November 2025 (1630 -1800 Hrs)

Theme 18: Urban Meteorology: Planning and Resilient Infrastructure (UMET)

Theme 09: AI/ML in Weather prediction and Climate science (AIML)

Theme 07: Ground and Space Based Radar Applications (GSRA)

Theme 10: Weather and Climate Science for Sustainable Agriculture and Hydrological practices (SAHP)

Theme 03: Physical, Chemical and Biological Oceanography (PCBC)

Theme 21: Paleoclimate observations and modelling (PALEO)

Theme 12: Advances in Climate Services for Sectoral Applications (CSSA)

Theme 20: Community Engagement in the field of weather and climate (COEN)

Theme 05: Climate Change and Extreme Weather Events (CEWE)

Theme 04: Advances in Ocean-Atmosphere Interaction (AOAI)

Theme 11: Advancement in understanding on interactive chemical processes during the Asian summer monsoon (CPASM)

Theme 26: Review of monsoon forecasts (MONF)

Theme 22: Soil Hydrology: Weather, Agriculture, Water resources and ecosystems perspectives (SOILH)

Theme 19: Understanding and Mitigating Climate Impacts in Cities (SAMA)

Theme 17: Impact Assessment, Adaptation, and Disaster Preparedness (IADP)

Theme 16: Remote Sensing for atmosphere and ocean (RSAO)

**** If your poster has been upgraded to an oral presentation by the session chairs, or if your name appears in both the oral and poster presentation lists, you are not required to prepare a poster. ****

Sr. No.	Abstract No	Theme No	Title of Abstract	Presenting Author
1	140	UMET	Meteorological Perspectives on Winter Fog: A Decadal Study of NSCBI (Kolkata) and JPNI (Patna) Airports	Abhishek Anand
2	302	UMET	Integrating V-I-S Fractions in SWAT for Assessing Urbanization Impacts on Hydrological Processes in the Mula–Mutha Catchment	Prajakta Mali
3	304	UMET	Analysing Temperature Variability and Climate Change in Coimbatore corporation Using Geomatics and Predictive Modelling: Towards Sustainable Urban Planning	POORNIMA M
4	871	UMET	Decadal Analysis of LULC Changes in Tamil Nadu and Maharashtra in India (2010-2020)	Pushpa Saroja
5		UMET	Stable Isotope Signatures of Vapour, Fog, and Dew in an Urban Environment: Insights to their formation and sources	Sundara Pandian Rajaveni
6	56	AIML	Enhancing Monsoon Rainfall Prediction in Kerala Using a Hybrid Empirical-Deep learning Framework	Yajnaseni Dash
7	915	AIML	FOG Estimation Using AI/ML Approaches Using Current Weather Observations of Delhi IG Airport	Pushpa Saroja
8	116	AIML	Deep Learning-Based Fog Forecasting at NSCBI Kolkata Airport	Abhishek Anand
9	60	AIML	Deep Learning Approaches to ENSO Forecasting: Advancing Niño 3.4 SST Prediction through Hybrid Models	MAYANK PANDEY
10	122	AIML	INDRA-Diff, INdia-wide Diffusion-based RAInfall downscaling: Kilometre-Scale Precipitation via Residual Diffusion Modelling	Vaisakh SB
11	145	AIML	Developing ML-driven derived expressions for the large-scale atmospheric predictors of lightning in India	Arpita Dhamija
12	403	AIML	Interpretable Machine Learning for Tropical Cyclone Genesis and Track Prediction over the Bay of Bengal	Anuj Gupta
13	411	AIML	Region-Specific Deep Learning Approaches for Predicting Indian Rainfall Patterns Under Climatic Oscillation Drivers	Drisiya J

14	426	AIML	Retrieval of Cloud Optical Depth and Liquid Water Path of pre-monsoon low and high-level clouds over land and ocean regions of India using Artificial Neural Network	Krishnaveni R B
15	444	AIML	Downscaling of Monthly Weather Parameters of Bangalore to Daily Resolution Using a Hybrid Machine Learning Model: Case Study	TEJAL N R
16	545	AIML	Investigating Land–Atmosphere Coupling Using Remote Sensing and Reanalysis Data over Chamoli, India	Rahul Jaiswal
17	551	AIML	Calibration Using Statistical and Machine Learning Approaches Improves Subseasonal to Seasonal Wind Speed Forecasts for the Indian Monsoon	Rupanjan Banerjee
18	553	AIML	Zone-wise Statistical Downscaling of Extreme Precipitation Events over India from CMIP6 Models	Ankita Singh
19	554	AIML	Skilful LSTM Forecasts of Vertical Temperature Profiles Across Distinct Climatic Zones of India	Kanike Raghavendra Prasad Babu
20	619	AIML	INDRA-ThunderCast: Lightning Detection using Hybrid AI Model	Yateen Vaviya
21	621	AIML	INDRA-SatDiff: High-Fidelity Generative Precipitation Nowcasting for the Indian Monsoon Using a Satellite-Adapted Latent Diffusion Model	Vishwajit Sarnobat
22	641	AIML	Advancing Weather Prediction through Physics-Informed Hybrid AI/ML Models with Uncertainty Quantification and Explainability	Vedantika Mane
23	649	AIML	Using Artificial Intelligence Weather Prediction Models to Forecast Regional-Scale False Monsoon Onsets for Agriculture	Mayank Gupta
24	650	AIML	From Bias to Accuracy: Machine Learning Correction of Reanalysis Ozone for Improved Air Quality Projections	Tanu Gangwar
25	690	AIML	Machine learning driven aerosol classification using Sun-sky radiometer (POM-01) observations at high altitude Hanle, Merak and Leh in Ladakh region	Swagata Mukhopadhyay
26	696	AIML	A CNN Based Bias Correction and Ensemble Generation Techniques for Improving Rainfall Prediction	Gagan Dhote
27	736	AIML	Deep learning-based bias correction of the Operational Global Forecast Model over the Indian Summer Monsoon region	Arunima A M

28	805	AIML	Demonstrating the skill of Pangu-Weather Model for Tropical Cyclones Across the Arabian Sea	SHIVAM KESHARWANI
29	862	AIML	Safe Beach: Enhancing Coastal Safety through AI/ML-Powered Rip Current Forecasting	Harsh Awasthi
30	966	AIML	Automated Cloud and Shadow Detection in AWiFS Satellite Imagery Using Spectral Indices and Deep Learning	Rakesh Asery
31	1011	AIML	Converting Raw NWP Model Output Data into Natural Language Forecasts Using Large Language Models: A Novel Approach for Automated Weather Communication	Shubhendu Karmakar
32	1014	AIML	DETERMINATION OF TREND OF WEATHER PARAMETERS, CLIMATE EXTREMES, ANOMALIES AND FORECASTING OF NEXT YEAR TREND BY AI/ML ANALYSIS	SUMANA CHATTERJEE
33	722	AIML	Enhancing the prediction skill of monsoon intraseasonal oscillations: a deep learning approach	K M Anirudh
34	460	AIML	CNN-based Short-term Solar Irradiance Forecasting Using Cloud Images	Anouksha Hemanth
35	874	AIML	Global El Niño–Southern Oscillation Unravels the True ENSO-Monsoon Relationship	Devabrat Sharma
36	656	AIML	Yield prediction of pigeonpea using statistical and machine learning models under different projected climatic scenarios	Jashwanth C
37	876	AIML	Deep Learning Framework for Rainfall Forecasting in Mumbai Metropolitan region	Shwetha Rajashree Iyer
38	65	AIML	Graph Neural Network Based Rainfall Stability Prediction Over India Using Precipitation Gauge Data	Pradyumnan Raghuv eeran
39	125	AIML	Unveiling Drivers of Tomato Yield through SHAP-Based Sensitivity Analysis of Machine Learning Models with Multi-Source Hydro-Meteorological Data in Central India	Pashupati Nath Singh
40	823	AIML	Comparison of different AI-Driven machine learning models for prediction of Fog over Delhi	Chaitanya Mamgain
41	457	AIML	Performance assessment of AI/ML models for extreme rainfall prediction: A case study of Kerala flood	Christy G. Enchackal

42	40	AIML	Enhancing Rainfall Prediction Over India Region Using Data Driven Precipitation Forecasting with Water Vapor Imagery	John Babu K
43	384	AIML	Comparative Assessment of Rainfall Forecasting Using MLP Neural Networks in Monsoon-Dependent Karnataka	Jahana K
44	965	AIML	EtherAI: Bridging Gaps with Smart Weather Forecasting	Manushree Bhagwate
45	15	GSRA	Examining microphysics and dynamics of extreme monsoon rainfall over Mumbai using a network of polarimetric X-band radars	Subrata Kumar Das
46	189	GSRA	Melting layer characteristics using ART CPol radar and GPM-DPR observations over core monsoon zone	Kumar Abhijeet
47	256	GSRA	Orography-dynamics control on rainfall distribution over the Western Ghats: insights from WRF simulations	Ambuj K Jha
48	613	GSRA	Characteristics of precipitation features during active and break spells over South Asia using space based observations	Shailendra Kumar
49	81	GSRA	Properties Of Convective Storms During LPS And Non-LPS Days: Analysis Using Space-Borne Radar	KRISHNA PRIYA K
50	181	GSRA	Characterizing Regional Precipitation Microphysics over Central India Using ART CPol Radar and Satellite Observations	Navneet Ranjan
51	230	GSRA	How dry air shuts down deep monsoon convection: ART CPol radar insights from August 2023	Manisha Tupsoundare
52	233	GSRA	Adaptive Fuzzy Logic Framework for Hydrometeor Classification Using Data-Driven Trapezoidal Membership Functions	Udaya Kumar Sahoo
53	299	GSRA	High-Resolution Precipitation Microphysics Observations Using a State-of-the-Art SSPA-Based X-band Polarimetric Weather Radar in the Western Ghats, India	Harikrishna Devisetty
54	319	GSRA	Statistical Characteristics of Convective Cell Lifecycle and Cell-to-Cell Interactions in the Monsoon Core Zone using ART CPol Radar Observations	Ashruba Ghorapade
55	499	GSRA	Synergetic approach to develop multi source precipitation product from high resolution Radar, rain gauge networks and satellite.	SUNIL KUMAR KHADGARAI
56	664	GSRA	Impact of Large-Scale Analysis Constraint on Cloud Structure under Contrasting Synoptic Forcings: Insights from 2018 and 2019 Kerala Floods	Francis Babu

57	843	GSRA	Multi-Platform Radar Observations for 3D Horizontal Wind Field Retrieval: Integrating OSCAT-3 Scatterometer and Ground-Based Doppler Weather Radar Wind Fields	Vaibhav Tyagi
58	909	GSRA	Design and Experimental Validation of Wideband 'GPR-GNSS Rover' for High-Precision Subsurface Scanning	Surajit Kundu
59	941	GSRA	Improving High-Resolution Quantitative Precipitation Estimation through Bias-Corrected Dual-Polarization Radar Data	Arunkumar R
60	208	GSRA	Response of MCSs to soil moisture variability and its radiative impact in the monsoon core zone	Kiran Kumari
61	213	GSRA	Vertical Structure of Precipitating Clouds associated with a Low-pressure System over the Core Monsoon Zone of India	Vishal Gunjal
62	37	GSRA	Nowcasting of Convective Rainfall using High-Resolution ART CPol Radar in the Monsoon Core Zone and X-band Radar Network in Mumbai	Mandar Nikale
63	315	SAHP	Impact of Climate Change on wheat yield simulation under different climate scenarios at Prayagraj, Uttar Pradesh	Ajay Mohan
64	348	SAHP	Influence of ENSO Events on Vegetation Dynamics during the Kharif Season across India	Aarti Soni
65	351	SAHP	Integrated Hydrological Modelling for Streamflow Forecasting in Indian River Basin	Aarti Soni
66	416	SAHP	Assessing Vegetation Dynamics in Indian Agriculture (1982–2022): Decadal Trends, ENSO Teleconnections, and Resilience Strategies for Kharif and Rabi Systems	Nagaraju Dharavath
67	419	SAHP	Integrated Assessment of Water Stress in India: Using Climatic and Remote Sensing Indicators	Guna M
68	672	SAHP	Comparative Evaluation of Advanced Multivariate Machine Learning Models for Groundnut (Arachis hypogea L) Yield Forecasting	Arpitha V
69	770	SAHP	A New Era in Agro-met Service: Evolution of IMD's Traditional to Digital Farmer-Centric Services for Greater Outreach	PUJYASMITA NAYAK
70	812	SAHP	Collision of Agrometeorology services on Sustainable Agriculture in the Aeon of Climate Change in India	Dr. Amrita Priyam
71	846	SAHP	Rainfall Variability and Its Impact on Sorghum Yield in India: Trends, Resilience, and Adaptation Strategies	Ritu Khatri

72	967	SAHP	Climate Change Impact on Sugarcane Cultivars Co86032 & CoP-94211 Using DSSAT-CANEGRO under RCP 4.5 Scenario	Shahenaz Mulla
73	1000	SAHP	GNSS and IoT driven Smart Multi Sensor Module for Agriculture Monitoring	Samrat Das
74	355	SAHP	Integrated analysis of climate extremes and water yield variability in river basins of central India using CMIP6 scenarios	Naman Kumar Rajouria
75	449	SAHP	Assessment of MODIS NPP products with ecosystem modelling and insitu datasets	Umayal S
76	715		Data-Driven Insights into Cashew Yield Dynamics Using Multi-Model Forecasting Techniques	Guhan Velusamy
77	447		Evaluating Agricultural Water Stress Using Satellite-Derived Variables	Vishal Singh Chauhan
78	732	SAHP	Forecasting of Reference evapotranspiration using statistical and machine learning models under different projected climatic scenarios	Pooja, R. S.
79	429	SAHP	Unveiling Rice Yield Dynamics Across Indian Districts: A Study of Biophysical and Climatic Influences From 2000 To 2019	Gayathri B
80	69	PCBC	Decadal Variability of Indian Ocean Salinity and Its Link to ENSO	Limonlisa Sahu
81	112	PCBC	Decadal variability of Tropical Indian Ocean heat content from century long reanalysis data and its mechanism	Amit Kumar Sharma
82	272	PCBC	Current structure and flow dynamics of the upper layer in the Oceanic South Eastern Arabian Sea	Arun V S
83	682	PCBC	Assessment of Space Applications Centre (SAC) Ocean Surface Currents in the Global Ocean	Ashis Bar
84	687	PCBC	Impact of long-term ocean warming on the surface Marine Heatwaves in the Bay of Bengal and its vertical and horizontal extension.	Arpan Bhattacharjee
85	866	PCBC	Role of Sub-Grid Scale Processes in the Movement of Oil Slicks on the Ocean Surface	Triparna Sanyal
86	3	PALEO	An integration of conventional and emerging techniques in speleothem palaeoclimatology	Aishwarya Singh

87	167	PALEO	Interplay of Oceanic Variability and Orbital Forcing in Modulating Indian Summer Monsoon During the Younger Dryas and Holocene	Md Kaif
88	168	PALEO	Exploring Late Holocene Climate Variability: Insights from Bittoo Cave in Chakrata, Uttarakhand	Kalyani Panchamwar
89	615	PALEO	Green Sahara Events Over 3.6 Million Years Ago: Simulation Using HadCM3B Model	Sabeena Muthar Mydeen
90	674	PALEO	Inter-annual Variability of the Indian Summer Monsoon: A Comparative Study of the mid-Pliocene and Pre-Industrial Eras	Karishma Dahiya
91	686	PALEO	Status and Updates on Dendroclimatological Research at IITM: Tree-ring Chronology of <i>Tectona grandis</i> from Central India	B. Preethi
92	848	PALEO	Variation in potential evapotranspiration and its impact on western Himalayan tree growth	Somaru Ram
93	179	CSSA	Study of Drought and Flood Prone Years over India and their link with Tropical Ocean Teleconnections	Tanu Sharma
94	290	CSSA	Advanced IMDAA Reanalysis Data Extrapolation of Wind Speed and Direction for Wind Resource Assessment	Sachin Bhandare
95	710	CSSA	Meteorological Drivers of Extreme Wind Power Ramps in Australian Wind Farms	Sathish Vijayaraghavalu Haridoss
96	47	CSSA	India's solar energy future: Insights from CMIP6 simulations based on bias correction and downscaling method	Ashwin Vijay Jadhav
97	--	CSSA	Lessons from Developing and Sustaining Climate Services in Sri Lanka for 17 years	Nipuni Alahakoon
98	--	CSSA	Weather Image Information System (WIIS): Enhancing Operational Decision Support in Aviation, Energy, and Transport Systems	Satyanarayana Tani
99	535	COEN	Integrating Climate Model Outputs and the Community's Experience for Assessing Climate Change Impacts in Small Watersheds	Saurabh Kelkar
100	123	COEN	Evaluation of different similarity functions under stable conditions over mountainous region	Shiwam Singh
101	171	COEN	On the Reanalyses Data Set	D Rajan

102	2	CEWE	Dynamics of ozone across the tropopause: A regional study over Costa Rica during 2016	Salauddin Mohammad
103	13	CEWE	Early Signals of Moist Static Energy for Predictability of Extreme Precipitation Events Over Central India	Suneeth KV
104	42	CEWE	Spatiotemporal Characteristics of Drought Distribution over Kenya	Manpreet Kaur
105	66	CEWE	Oceanic influence on Large-Scale Atmospheric Convection during co-occurring La Niña and negative IOD events	Supriya Manikrao Ovhal
106	77	CEWE	Microphysical Characteristics and Melting Layer Dynamics of Intense Precipitating Winter Storms	Sumit Kumar
107	89	CEWE	The intensity and structure of mocha cyclone simulated using WRF hydrostatic and non-hydrostatic dynamical cores	Nahan N H
108	90	CEWE	Large Scale Interaction with Mesoscale Convective System leading to extreme rainfall event	Piyush Ahire
109	109	CEWE	XWeatherLib: A High-Resolution Simulation Library for Extreme Rainfall Events over India	Vishal Dixit
110	126	CEWE	Atmospheric Rivers and Tropical Cyclones over the North Indian Ocean	EMMANUEL RONGMIE
111	173	CEWE	Fidelity of the global atmospheric model 'BharatFS' in capturing monsoon lows and Depressions over India	Radhika Kanase
112	193	CEWE	Epochal Variability of Extreme Precipitation Indices over Wet Zones of India during Indian summer monsoon	Ayesha Mohanty
113	194	CEWE	Investigation of Cloudburst event over Himachal Pradesh during summer monsoon 2023	Parvathy V S
114	225	CEWE	Historical Trends and Future Projections of Extreme Precipitation Events over India Using IMD and CMIP6 Data (1950–2100)	Jasobanta Narayan Panda
115	258	CEWE	Changing Patterns of Monsoonal Rainfall over Northwest India: A Century-Long Perspective on Rainfall Trends, Extremes, and associated Dynamics	P N Muhammed Althaf
116	271	CEWE	Performance of RAS and SAS Convective Parameterization Schemes in Bharat Forecast System for Kerala Extreme Rainfall Events	Revanth Reddy B

117	275	CEWE	Long term global trends in temperature, relative humidity, and winds in the UTLS region using ERA-5 data	Sibu Behera
118	312	CEWE	Variability and Trends of Rainfall Extremes in north-western plain ACZ	Himani Bisht
119	327	CEWE	Climate Change, Solar Geoengineering, and Long-term Drought Risk in India	Abhishek Anand
120	332	CEWE	Case Studies of Mesoscale Convective Systems Associated with Monsoon Extreme Rainfall along the Southwest Coast of India	Silpamol D S
121	359	CEWE	Indian Summer Monsoon and the recent warming trend in the North Pacific: exploring tropical-polar teleconnections	Geetanjali S
122	360	CEWE	ENSO Modulation of Sub-seasonal Oscillations and Their Combined Effect on Indian Heatwaves	Tukaram Zore
123	377	CEWE	Enhancing Marine Heatwave Forecast Skill with Ensemble-Based Methods Using the MMCFSv1 Model	Ashish Alone
124	386	CEWE	Spatiotemporal Analysis of Cloud Microphysical Properties, Precipitation, and Monsoon Variability over Odisha, India	Jagannath Ghosh
125	474	CEWE	Future Changes in Tropical Cyclone Activity over the North Indian Ocean in High-Resolution CMIP6 Models	Biswajit Jena
126	479	CEWE	Contrasting Seasonal characteristics of tropical cyclone tracks in the north Indian Ocean	Rushikesh Adsul
127	480	CEWE	Changing characteristics of tropical cyclones in the tropical Southern Indian Ocean	Madhu Kaundal
128	483	CEWE	Disentangling Thermodynamic and Dynamic Drivers of Extreme Rainfall Changes over India	Chaithra S T
129	496	CEWE	Identifying the Extreme Rainfall Hotspots over Mumbai: A spatial analysis using MESONET.	SUNIL KUMAR KHADGARAI
130	507	CEWE	Investigation of Orographic Clouds and Extreme Rainfall Event over the Himalayan Foothill Region	Ruchita Shah
131	518	CEWE	Role of Tropical Intraseasonal Oscillations on Intensification of cyclones over Northern Indian Ocean	Agnijita Bandyopadhyay

132	519	CEWE	Climatology of Mesoscale convective systems over the west coast of India: Implications for extreme events	Ashish Shaji
133	537	CEWE	Changes in monsoon low-pressure system characteristics under stratospheric aerosol geoengineering during the Indian summer monsoon	Mahendra Singh
134	568	CEWE	Age- and Sex- Specific Mortality due to High Temperature Across the Heat Wave Prone Zones of India: A Physiographic Study	KOUSHIKI GOSWAMI
135	592	CEWE	Decadal Variability of Extreme Rainfall over Western Ghats: Influence of decadal climate drivers	NEHA L. HIKARE
136	633	CEWE	Tropical Cyclone-Induced Precipitation Trends Over North-Indian Ocean (2001-2023)	Srushti Dessai
137	646	CEWE	Influence of urbanization on lightning occurrences over Chennai	Ananthan R
138	657	CEWE	Unveiling the Climatological Characteristics and Changing Behaviour of the NIO Cyclones formed during the Indian summer Monsoon Season	Vivek singh
139	692	CEWE	Evolution of extreme subsurface and surface modes over the tropical Indo-Pacific Ocean and their representation in CMIP6-DCPP lead predictions	Rashmi Kakatkar
140	709	CEWE	Meteorological Analysis of Extreme Rainfall Episodes in Assam During 2025	VIVEK KUMAR
141	828	CEWE	North Atlantic Fingerprint on Severe Heatwaves over the Indian region	Shamal Marathe
142	868	CEWE	Large Ozone Intrusions during Sudden Stratospheric Warmings on the Arctic Enhance Ozone Radiative Forcing over South Asia	Shubhajyoti Roy
143	911	CEWE	Extreme Rainfall Hour Events over the Indian subcontinent: Characteristics and Links to Large-Scale Environmental Conditions and Monsoon Low Pressure Systems	Abhay Bhattarai
144	923	CEWE	Dynamics and Microphysical Characteristics of a Hailstorm Using X- band Polarimetric Radar	Roshan Kadbhane
145	924	CEWE	Assessing Climate Extremes in the Periyar Vaigai Basin: Evidence from Long-Term Trends	Dharani C
146	934	CEWE	Assessing the Role of Climate Change in the Frequency and Intensity of Heat waves in India	NISHA KUMARI

147	951	CEWE	Climate services using IMDAA data and web development tools: visualization and analysis of temperature and Precipitation trends over India	Rahul degra
148	986	CEWE	Atmospheric Boundary Layer Processes during Extreme Heat Waves in Central India: Insights from High-Resolution Modelling	Adarsh Jain
149	543	CEWE	Rapid rise in temperature over the Indian Himalaya under the warming climate	Ankita
150	467	CEWE	Variability of Marine Heatwaves in the Tropical Indian Ocean: The Role of EL Nino Decay Phases	Srujitha Pothula
151	573	CEWE	Studying Cold Waves over North India using IMDAA Reanalysis: Exploring Trends and Physical Mechanisms	Malavika M
152	-	CEWE	Sea Surface Temperature Rise and Marine Heatwave Intensification Over Coral Reefs in the Indian Ocean	Bilwa Giram
153	534	CEWE	Investigating the Impact of Extreme El Niño events on the Indian Summer Monsoon Rainfall in a Changing Climate	Suchita Pandey
154	701	CEWE	Evaluating the Impact of Climate Extremes on Air Pollution Episodes in Northern India	S. Lakshmi
155	215	CEWE	surface and subsurface structure of marine heatwaves	Vaishnavi Shivaji Ghuge
156	624	CEWE	Relationship between low pressure systems and interannual variability of Indian summer monsoon in CMIP6 models	Rajendran Saran
157	195	CEWE	Spatio-Temporal Variability of Rainfall and Snowfall in Jammu Division: AWS-Based Assessment of Extreme Events, Aerosol Influence, and Climatic Shifts.	RIPUDAMAN SONI
158	837	CEWE	Change in Meridional Mass Transport due to Arctic Amplification: Insights from a Two-Layer QG Model	ANURAG CHAUDHARY
159	468	CEWE	Extreme rainfall prediction using an assimilated WRF model: Examining the influence of initial conditions and parameterization schemes	Rasla Fathima C
160	769	CEWE	Complex Networks Approach Reveals Extreme Rainfall Events Propagation towards Indian Regions	Balakrishnan S
161	498	CEWE	Multidecadal variations of Aerosol parameters and associated changes in Radiative Forcings	Betsy K B

162	-	CEWE	Impact of Decadal Land-Use and Vegetation Data on WRF Model Initial Condition in Short-Range Rainfall Forecast in India	Ipsita P
163	294	CEWE	Projected Change in Extreme Rainfall over India using CMIP6 Models	Prabha Kushwaha
164	838	CEWE	Investigating Concurrent Cyclonic Disturbances in the North Indian Ocean and Associated Large-Scale Atmospheric Influences	Sujata Mandke
165	815	CEWE	Re evaluating Extreme Heat in India Through Trends in Temperature, Humidity and Climate Forcings	Harsha P
166	287	CEWE	Spatio-Temporal Analysis of Percieved Heat stress in Karnataka	ESHWAR Deshmukh
167	985	CEWE	Spatial dynamics and projected trends of PDSI in India under CMIP6 SSP2-4.5 scenario: A multi-scale analysis and time series forecasting	SASI.M
168	118	CEWE	Decoding Dengue: City-Specific Climate-Driven Models	Pratip Shil
169	121	AOAI	Influence of the Interdecadal Pacific Oscillation on Pacific Trade Wind Variability	KARTHIKA G
170	277	AOAI	Warming Evolution of Global Ocean Basins as a Driver of Radiative Feedbacks and Tropical Rainfall	Aditi Bhattacharyya
171	292	AOAI	Understanding the Variability of Indian Ocean Overturning Circulations	AL Sumaina K N
172	341	AOAI	Regional Contrast in Flux Estimation: Arabian Sea and Bay of bengal	Priyanka C K
173	368	AOAI	Asymmetrical Impact of El Niño to La Niña Transition in the Tropical Pacific Basin on Hot Extremes over India	Lekshmi S
174	452	AOAI	Potential Role of Indian Ocean SST during the Hiatus Period in Triggering the Revival of Northwest Indian Rainfall	Anila Sebastian
175	501	AOAI	Air–Sea Interactions over Bay of Bengal and their Influence on Summer Monsoon Activity.	Ritwik Manna
176	818	AOAI	Representation of IOD and El Niño induced sea level variability over the Indian Ocean in the sea level decadal predictions	Arpita Saha

177	845	AOAI	Understanding Indian Summer Monsoon Rainfall Variability through the Lens of Tropospheric Biennial Oscillation: A Study of Temporal and Spatial Patterns in CMIP6 Models	Anika Arora
178	889	AOAI	Surface Buoyancy flux variations over the Indian Ocean and Meridional Exchange: A SUBLIME Perspective	Gagan Hegde
179	963	AOAI	Can Background Circulation Facilitate Intraseasonal Mixed Rossby-Gravity Waves over the Central-Eastern Pacific?	Mehak
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181	188	CPASM	Assessment of temperature and wind biases in reanalysis over the Indian Subcontinent during the Asian summer monsoon	Satheesh Chandran P R
182	252	CPASM	Formaldehyde simulations over India in CMIP6 models	Mriganka Sekhar Biswas
183	281	CPASM	Understanding the processes controlling long-term and interannual isotopic variability of rainwater in the Western ghats	Anbarasu Subramaniyan
184	400	CPASM	Long term changes in the Asian summer monsoon anticyclone	P. P. Musaid
185	425	CPASM	Impact of ENSO on the UTLS chemical composition in the Asian Summer Monsoon Anticyclone	Hemanth Kumar Alladi
186	490	CPASM	A Review Study on Rainwater Chemistry over the Himalayan Region of Uttarakhand	Ankit Kumar
187	392	CPASM	Shortwave Radiative Impacts of the Asian Tropopause Aerosol Layer: Insights from Balloon-borne Measurements	V. Santhosh
188	733	MONF	Object oriented verification of the BharatFS and GFS T1534 models for the Indian summer monsoon rainfall.	Satya Prakash Sahu
189	833	MONF	Breaking the Forecast Barrier: Are Non-Hydrostatic Storm-Resolving Models the Future of ISMR prediction?	Lekshmi S
190	495	MONF	An information-driven mutual information criterion for choosing multiclass general circulation models	Raj Kumar Rai
191	6	SOILH	Climate change linkages to Groundwater Depletion in India	Amol Kale

192	278	SOILH	Isotope-led Identification of Groundwater Sources	Mohan Sarkar
193	382	SOILH	Quantifying Land–Atmosphere Feedbacks over North-East India	Naresh Ganeshi
194	396	SOILH	Modeling soil moisture–evapotranspiration linkages in monsoon hydroclimate	Mangesh M. Goswami
195	402	SOILH	Is Climate Variability Driving Groundwater Quality Decline in the Ganga River Basin?	Dr. Aju C D
196	681	SOILH	Soil–Climate–Vegetation Linkages: Machine Learning Insights for Climate-Smart Agriculture	Nagaraju Dharavath
197	688	SOILH	Estimation of Rainfall Magnitudes for Various Return Periods using HEC-SSP for Aerodrome station of Patna City Bihar	Shubham Shaurabh
198	703	SOILH	Modeling the water balance and its variability in the Krishna River Basin	Dr. Bushra Yasin Shaikh
199	809	SOILH	Long-term soil moisture variability at 21 sites in and around North-East India (1979–2020)	Rohit Gautam
200	835	SOILH	Analysing the Impact of Interannual Monsoon Rainfall Variability on Agricultural Productivity in Rainfed Regions of Maharashtra and Karnataka	Sahana C G
201	881	SOILH	Long-term Groundwater trend analysis in Shallow Coastal Aquifers using Non-Parametric Methods: Mann-Kendell and ITA	Sushamita Wadde
202	-	SOILH	To understand the relationship of weather parameters with crop yields in Nagpur district-Recent days	Ravindra Akre
203	948	SOILH	Regional Hydrological Response to Climate Variability in North-East India: Emphasizing Water Availability	Anindita Borah
204	795	SPIILH	Assessing the impact of enhanced soil moisture–atmosphere interactions on simulated extreme temperature anomalies through a fully coupled WRF/WRF-Hydro modeling framework: a case study of the 2016 heatwave event over the Krishna River Basin	SUMANA SARKAR
205	45	SAMA	Spatio-Statistical Analysis of Long-Term Rainfall and Temperature Variability in Coimbatore District	BHAVI K
206	227	SAMA	From Dust to Smog: Spatio-Temporal Analysis of Air Quality in Rajasthan and the National Capital Region	Kajal Kumari

207	358	SAMA	A Clean-Air Blueprint for Ahmedabad: Accelerating NCAP with a Bottom-Up PM Inventory and Mitigation Insights	Yagni Rami
208	756	SAMA	A Study of Fog Frequency at Bengaluru Airport	Sowmya M S
209	897	SAMA	Validation of Satellite-Derived Solar Radiation Estimates Over India Using Ground Observations	PRAJAKTA PATIL
210	813	SAMA	Studying the Role of Blue-Green Cover in Urban Micro-Environment with PALM-WRF Simulations	Gulnaaz Rasiya
211	211	SAMA	Variations of Urban Heat Island over the East Coastal Station, Visakhapatnam	P. Hymavathi
212	706	SAMA	Understanding and Mitigating Climate Impacts in Shivamogga Karnataka	SUMAN SAURABH
213	1055	SAMA	Meteorological Influences on Mental Health: An Intensive Longitudinal Study among Emerging Adults of Chennai and Chengalpattu	Rishi Muthu Velkumar
214	135	IADP	Operational and Economic Impacts of Winter Fog at Guwahati Airport: METAR-Based Decadal Analysis	Abhishek Anand
215	152	IADP	Impact of Tropical Cyclone Biparjoy on Oceanic Parameters in the Arabian Sea	Rocky pal
216	374	IADP	Role of Forest Type in Forest Fire Spread using Statistical Approach	Vikas Bawankule
217	662	IADP	Analyzing the compound hazards associated with the landfalling cyclones over the Indian subcontinent	Geo Tom
218	752	IADP	Tropical Cyclones and Agricultural Vulnerability in the Coastal Blocks of Purba Medinipur District, West Bengal	RUMPA JANA
219	891	IADP	Climate Change and Its Impact on the Viability of Offshore Wind Energy in India	Garlapati Nagababu
220	971	IADP	INTEGRATED DAM BREACH ANALYSIS, REAL-TIME EVACUATION, AND IOT-BASED EARLY ALERT SYSTEM: A MOBILE APPLICATION FOR KOYNA DAM	Shubham Girigosavi
221	1056	IADP	Economic sensitivity to Indian Summer Monsoon Rainfall (ISMR) variability: A GDP perspective	Rajeev B.

222	974	IADP	Integrated Floodplain Modeling of the Panchganga River Using HEC-RAS and GIS-Based Techniques	Nikhil Pawar
223	7	RSAO	Case study of a dust storm event in April 2025 based on ground- based observations	Akshay Shinde
224	8	RSAO	Seasonal variability of Algal Bloom Dynamics in Arabian Sea: Insights from Multispectral Ocean Color Monitor EOS-06/OCM-3	Bhubaneswari Panda
225	49	RSAO	Ground-Based Remote Sensing of Clouds with an In-House Developed Visible Sky Imager (VSI) System.	Mahesh Nikam
226	64	RSAO	Variability of Cloud Macro Properties during Monsoon using a high frequency Ground-based IR images in Central India	Sivaprasad M
227	78	RSAO	Multi-Technique Investigation of a High-Impact Pre-Monsoon Convective Event over Delhi in May 2025	SURYASNATA MAJUMDER
228	82	RSAO	Remote Sensing of Cloud Base Height using an IR-Sky Imager and Comparison with a Microwave Radiometer	Sanket Kalgutkar
229	85	RSAO	Aerosol–Monsoon Interactions over the Indo-Gangetic Plains: Satellite-Based Perspectives	Deepak
230	249	RSAO	Comparison of Cloud fraction from INSAT 3D and other cloud products	AISWARYA RAMACHANDRAN
231	268	RSAO	Evaluation of Rain-Type Classification and Diurnal Cycle in GPM IMERG with a Dense Rain Gauge Network over the Leeward Western Ghats.	Imolemba Longkumer
232	295	RSAO	Prediction of Atmospheric Optical Turbulence using WRF model: A case study for Indian Peninsula	Aditya Prasanth Kalaga
233	428	RSAO	Investigating monsoon characteristics in Aeolus winds through comparison with GPS radiosonde observations and re-analysis datasets	Balasundhar Bv
234	465	RSAO	Mapping burned areas in India using satellite remote sensing	Kaustubh Manoj Mujumdar
235	489	RSAO	Quantifying Global CO2 Fluxes and Concentrations through Multi-Model Atmospheric Inversions and Satellite Data	Aparna Aparajita
236	493	RSAO	SIRIS – An Indigenously Developed Multi-Sensor Platform for Continuous Cloud, Irradiance, and Aerosol Observations	Sougat Kumar Sarangi

237	660	RSAO	Polarimetric Radar signatures of waterspout events over Thumba (8.5°N, 77°E)	Hadiya Nawal C K
238	668	RSAO	Improving the surface NO2 estimates over India using satellite retrievals and modeling	Ardra D
239	779	RSAO	InSAR and Optical framework for mapping debris-covered Bara Shigri glacier, Western Himalaya	Umakanth Uppara
240	922	RSAO	Shoreline changes and future shoreline prediction of Maharashtra Coast using multi-temporal satellite data and Geospatial Techniques.	Sapana Sasane
241	214	RSAO	Analysis of the Relationship Between Atmospheric Refractivity, Turbulence, and Cyclone Characteristics of Tropical Cyclones in the North Indian Ocean during 2024	Giridhar Bura
242	86	RSAO	Atmospheric Boundary Layer Dynamics and Improving its Prediction from WRF using Lidar Observations over a Western-Indian Region	Dharmendra Kumar Kamat
243	101	RSAO	Evaluation of the fidelity of WRF forecasts and ERA5 and IMDAA reanalyses in reproducing IWV and its diurnal cycles during different seasons over a tropical, semi-arid station using GNSS observations	Gayatri V
244	1000	AOAI	Using Ocean Salinity Patterns to Examine Southwest Monsoon Onset Variability across India	Dinesh Kumar Yadav
245	510	MDYP	High-Resolution District-Level Statistical Assessment of LongTerm Rainfall Variability and Extremes Over Bihar, India	Sonu kumar
246	315	UMET	Urban Heat Islands in Tropical Cities Pathways Toward Climate Resilient Futures	Arka Mukherjee
247	207	MDYP	Clouds and Precipitation in warming scenario's: A study along the South Asian region using CMIP6 projections	Praneta Arun Khardekar
248	681	CEWE	Analysis of Extreme Rainfall Events over Northwestern Himalayan Region using Weather Research and Forecasting (WRF) model with different Cloud Microphysics Parameterization Schemes	Akash Shit
249	1059	MDYP	Long-Term Trends and Monsoon Anomalies in Global Horizontal Irradiance over Key Renewable Energy Zones in India	Jayakrishnan P. R
250	1060	MDYP	Impact of Tropical Cyclone 'Asna' on Solar Energy Generation in Gujarat: A Meteorological Perspective	Ajay Krishna S

251	630	AIML	INDRA-SatGAN: A Satellite-Based Generative Model for Precipitation Nowcasting in India	Vinayak Yadav
252	622	AIML	INDRA-SatDiff: High-Fidelity Generative Precipitation Nowcasting for the Indian Monsoon Using a Satellite-Adapted Latent Diffusion Model	Vishwajit Sarnobat
253	620	AIML	INDRA-ThunderCast: Lightning Detection using Hybrid AI Model	Yateen Vaviya
254	989	AOAI	Roll clouds over the Arabian Sea and their association with monsoon activity	Swathi B
255	842	RSAO	Intertropical Convergence Zone: A Regional Perspective using Multi-metric Approach	Anjana U