

# *Tentative Schedule for Oral Presentations*

*Day -1*

*18<sup>th</sup> September, 2024*

*Afternoon*

**Theme 1: Tropical weather systems - monsoons, tropical cyclones, land-ocean-atmosphere interactions**

**Parallel Session 1 – Theme - 1** (6 presentations @ 10 min each)

**CONVENTION CENTRE (MAIN HALL)**

**Time: 15.30 - 16.30**

S.No.	Authors/Affiliation	Title	Time
1.	Ramesh Kumar Yadav Scientist-F., I.I.T.M.	The recent trends in the Indian summer monsoon rainfall	15.30 - 15.40
2	Ankur Srivastava Scientist-D, I.I.T.M.	Pre-conditioning of the Indian Ocean by La-Nina: Impact on Indian Summer Monsoon and the Indian Ocean Dipole	15.40 - 15.50
3	Ch. Sridevi Project Scientist –II, NCMRWF	Heatwave analysis over Andhra Pradesh using RTMA	15.50 - 16.00
4	N.D. Manikanta Project Scientist, INCOIS	Ocean Warming and Changes in the Life Cycle of Tropical Cyclones	16.00 – 16.10
5	GMM Krishna Ph.D. Student NIT, Rourkela	Large-Scale Environmental Features during Maximum Intensity of Tropical Cyclones	16.10 - 16.20
6	Janani R Project Scientist-I, NIOT	Analysis of extreme wave heights during a Very Severe Cyclonic Storm, “YAAS” over the Bay of Bengal using Moored buoy measurements	16.20 - 16.30

## **Theme 2: Ocean and atmosphere modeling; AI/ML techniques**

**Parallel session 2: Theme - 2** (6 presentations @ 10 min each)

### **SAGARIKA HALL – 1**

**Time: 15.30 -16.30**

<b>S.No.</b>	<b>Authors/Affiliation</b>	<b>Title</b>	<b>Time</b>
1	Jagabandhu Panda Professor, N.I.T. Rourkela	Rainfall variability over Indian cities: Analysis and future prediction through AI/ML techniques	15.30 - 15.40
2	Maheswar Pradhan Scientist-D, I.I.T.M.	Modulation of Tropical Diurnal Convection in response to Diurnal Ocean Variability	15.40 - 15.50
3	Naresh Krishna VISSA Associate Professor, NIT, Rourkela	Disentangling the Contribution of Moisture Sources Supporting Tropical Cyclone Genesis Over the Bay of Bengal Using a Lagrangian (FLEXPART) Model	15.50 - 16.00
4	Nagaraju Chilukoti Assistant Professor NIT, Rourkela	Prediction of Heatwaves over India region using Artificial Intelligence and Machine Learning models	16.00 - 16.10
5	Srinivasarao Karri Scientist-SE NRSC, Hyderabad	Simulation of Extreme Wind Waves during the Landfall of Tropical Cyclone Amphan in Bay of Bengal	16.10 - 16.20
6	Sujatra Bhattacharyya Ph.D. Student, I.I.Sc.	Relating Precipitation with the shape of the MSE profile	16.20 - 16.30

### **Theme 3: Coastal processes and ocean resources**

**Parallel session 3: Theme 3** (6 presentations @ 10 min each)

**SAGARIKA HALL – 2**

**Time: 15.30 -16.30**

<b>S.No.</b>	<b>Authors/Affiliation</b>	<b>Title</b>	<b>Time</b>
1	V. Suneel Senior Scientist, NIO, Goa	Seasonal distribution and the fate of oil spills in potential oil spill regions of the Eastern Arabian Sea using the GNOME model	15.30 - 15.40
2	Ramesh Madipally, Scientist-D, NCESS, Thiruvanthapuram	Technical capabilities of Video Beach Monitoring System (VBMS) - an emerging system for high resolution sampling and analysis of coastal processes in India	15.40 - 15.50
3	B.Sridevi Principal Project Associate NIO-RC, Vizag	Unique features of the Submarine Canyons off Visakhapatnam	15.50 - 16.00
4	V. Trinadha Rao Project Scientist, INCOIS, Hyderabad	Extraction of persistent lagrangian coherent structures for the pollutant transport prediction in the Bay of Bengal	16.00 - 16.10
5	Vikranth Teppala Research Scholar IIT Kharagpur	Local water level variability recorded at Bhavanapadu Creek by a real-time water level monitoring buoy during the tropical cyclone REMAL	16.10 - 16.20
6	Vivek V Rajiv Student CUSAT	Seasonal to Interannual Variability of Sea Surface pCO <sub>2</sub> in the Global Ocean: Investigating the Impact of Ocean Physical Parameters using Satellite, insitu and Model Observations	16.20 - 16.30

*Day - 2*

*19<sup>th</sup> September, 2024*

*Morning*

**Theme 1: Tropical weather systems - monsoons, tropical cyclones, land-ocean-atmosphere interactions**

**Parallel Session 1 – Theme1** (10 presentations @ 10 min each)

**CONVENTION CENTRE (MAIN HALL)**

**Time: 11.30 -13.10**

S.No.	Authors/Affiliation	Title	Time
1	M. Sharma Scientist IMD, New Delhi	Recent trends in characteristic features of tropical cyclones over the North Indian Ocean	11.30 - 11.40
2	Nadimpalli Raghu Scientist IMD, New Delhi	High-resolution physics-based dynamical ensemble approach to predict the tropical cyclone FANI: A case study	11.40 - 11.50
3	Katru NagaLakshmi Scientist, I.I.T.M.	An Analysis of Anomalous Behaviour of cyclone “Biparjoy” in the Arabian Sea	11.50 - 12.00
4	N. Nanaji Rao Scientist, I.I.T.M.	Prediction of Summer Monsoon Precipitation in Homogeneous Regions of India using Monsoon Mission Coupled Models	12.00 - 12.10
5	Ponnaganti Suneeta Project Scientist, INCOIS	Advanced Forecasting Method for Tropical Cyclogenesis in the Bay of Bengal	12.10 - 12.20
6	Prabin Kumar Kar Project Scientist, NIOT	Variability of Sea Surface Temperature and Sea Surface Salinity in the Bay of Bengal and its relation to ENSO/IOD and cyclonic events	12.20 - 12.30
7	Pushpanjali. B Academician Nagarjuna University	Role of Northeastward propagating Intra Seasonal Oscillation over Arabian Sea in triggering Indian summer monsoon onset	12.30 - 12.40
8.	Kotta Srinivas Project Scientist, INCOIS	Role of Extreme Chlorophyll Bloom Events on Climatological Chlorophyll in the Southwestern Bay of Bengal	12.40 - 12.50
9	Suchithra Sundaram Project Scientist- DST/WoS-A, NIOT	Interhemispheric moisture transport between the polar regions and its relationship with the Indian Summer Monsoon	12.50 - 13.00
10	Kesireddy Lakshman Ph.D. Student NIT, Rourkela	Evaluating the impact of Urban-Planetary Boundary Layers (PBL’s) on thunderstorm dynamics over the Eastern Indian region	13.00 - 13.10

**Theme 2: Ocean and atmosphere modeling; AI/ML techniques &**

**Theme 3: Coastal processes and ocean resources**

**Parallel session 2: Theme 2 & 3** (10 presentations @ 10 min each)

**SAGARIKA HALL – 1**

**Time: 11.30 -13.10**

S.No.	Authors/Affiliation	Title	Time
1	Prof. P. Srinivas Uni. of Hyd Hyderabad	Advanced coupled data assimilation for improved weather and short-term climate predictions	11.30 - 11.40
2	Dr.Srinivas Desamsetti,Sci-D, NCMRWF, New Delhi	Study on the impact of the Indian high resolution BUFR Radio Sonde profiles	11.40 - 11.50
3	Sahadat Sarkar Scientist-D, I.I.T.M.	Performance of very high resolution Global Forecast System Model (GFS T1534) in capturing lows pressure systems	11.50 - 12.00
4	Dr.Maheswaran Scientist, DRDO- NPOL	Observations of hydrography and circulation in the Andaman Sea	12.00 - 12.10
5	V. Chandra Sekhar Scientist-B INCOIS, Hyderabad	Application of multicriteria decision analysis for swell surge warning decision support	12.10 - 12.20
6	A.Yugandhara Rao Adjunct Professor Dept. of Geology A.U.	Beach Sands Heavy Mineral Deposits Along Andhra Pradesh Coast-An Overview	12.20 - 12.30
7	P. K. Pradhan Project Scientist-III NCMRWF	Arabian Sea mini warm pool and monsoon vortex impacts on the rainfall distribution over India during June 2023	12.30 - 12.40
8	Harvir Singh Project Scientist-III NCMRWF	Rising Heat Waves in India: Leveraging Machine Learning for Improved Forecasting	12.40 - 12.50
9	Ashitha Project Associate NIO-RC, Vizag	Spatial and temporal variations in net primary production in the Indian Ocean using various models	12.50 - 13.00
10	V. Rajani Kumari Research Scholar NIO-RC, Vizag	Temporal variations carbonaceous aerosols in the coastal Bay of Bengal using stable isotopic composition of carbon and nitrogen	13.00 - 13.10

## Theme 4: Climate change, modeling; extreme weather events

*Parallel session 3: Theme 4* (10 presentations @ 10 min each)

SAGARIKA HALL – 2

**Time: 11.30 -13.10**

S.No.	Authors/Affiliation	Title	Time
1.	Avijit Dey Scientist-D, I.I.T.M.	Multi-physics-multi-ensemble (MPME) system and its real-time performance in predicting the 2022 monsoon, with an emphasis on East-West Rainfall asymmetry	11.30 - 11.40
2.	Raju Mandal Scientist-D, I.I.T.M.	Heatwaves in India: Patterns, Associations, and Extended Range Prediction	11.40 - 11.50
3.	Sandeep Narayanasetti Scientist-D, I.I.T.M.	Extreme tropical precipitation events and its association to Arctic Sea ice changes in a warming climate	11.50 - 12.00
4	G. Ch. Satyanarayana Associate Professor, KL University	Heat Waves in India: Vulnerability and Causation Including El Niño Decay Years	12.00 - 12.10
5	Praveen Kumar Scientist-C, IMD, Pune	Performance of High Resolution ESM of CMIP6 in the Simulation of South West Summer Monsoon Rainfall and its Future Projection	12.10 - 12.20
6	Gopinadh Konda National Postdoctoral Fellow, I.I.T.M.	Temporal and spatial aggregation of rainfall extremes over India under anthropogenic warming	12.20 - 12.30
7	Abhijeet Gangane Project Scientist, I.I.T.M.	Impact of decreasing Land-Sea horizontal pressure gradient on the lightning activity over Western India	12.30 - 12.40
8	Adrish Banerjee Research Scholar, IIT Bhubaneswar	Typical features of heatwave conditions in the Indian Region	12.40 - 12.50
9	Animesh Choudhury Ph.D. Student, NIT, Rourkela	Urban growth over selected Indian cities and its association with LST and rainfall.	12.50 - 13.00
10.	Karishma Dahiya Ph.D. Student NIT, Rourkela	Understanding the inter-annual variability in Indian Summer Monsoon rainfall during warm mid-Pliocene with respect to the pre-industrial period.	13.00 - 13.10



*Day - 2*

*19<sup>th</sup> September, 2024*

*Afternoon*

**Theme 1: Tropical weather systems - monsoons, tropical cyclones, land-ocean-atmosphere interactions**

**Parallel Session 1 – Theme1** (8 presentations @ 10 min each)

**CONVENTION CENTRE (MAIN HALL)**

**Time: 16.45 - 18.05**

S.No.	Authors/Affiliation	Title	Time
1	Dr. Manisha NIO, RC Vizag	Impact of Climate Change on River Discharge Patterns and Bay of Bengal Stratification: Effect on the Intensification of Cyclones	16.45 - 16.55
2	Dr. D.A.Ramu Asso. Prof. Uni. of Hyd. Hyderabad	Simulation of Indian Ocean warming, Extreme Positive IOD events and their impact on Indian Summer monsoon rainfall in NMME model	16.55 - 17.05
3	Dr. Shравan Kumar Muppa Scientist-E IMD, New Delhi	Development of a new forecasting tool for the thunderstorm detection over the east and north-eastern Indian region	17.05 - 17.15
4	S. P. Singh Scientist-D, IMD, Port Blair	Projected Changes in Sea Surface Temperature and relation with South West Monsoon Rainfall in simulation of CMIP6 Models	17.15 - 17.25
5	Dola Tharun Ph.D. Student NIT, Rourkela	Raindrop Size Distribution Analysis in Active vs. Break Spells of Summer Monsoon from 2018 to 2021 over Rourkela	17.25 - 17.35
6	Dr. Gopi Krishna Podapati PDRF, Uni. Hyd. Hyderabad	Air-Sea interactions associated with tropical cyclones over the Bay of Bengal with special emphasis on Meso-scale Eddies	17.35 - 17.45
7	G. Sripathi Ph.D. scholar NIT, Rourkela	Impact of Shifting Patterns of the South Asian High on Interannual Variability of Indian Summer Monsoon Rainfall in Homogeneous Regions	17.45 - 17.55
8	T. Pushpalatha Research Scholar Uni. of Hyd.	Impact of global warming on regional ocean circulation and Air-sea interactions over the Bay of Bengal	17.55 - 18.05

## Theme 4: Climate change, modeling; extreme weather events

*Parallel session 2: Theme 4* (8 presentations @ 10 min each)

**SAGARIKA HALL – 1**

**Time: 16.45 - 18.05**

S.No.	Authors/Affiliation	Title	Time
1	Prof. P. Parth Sarthi Central University of South Bihar	Sub Seasonal Variability of Summer Monsoon Rainfall in Coupled Climate Models (CCMs) Simulation	16.45 - 16.55
2	Basivi Radhakrishna Scientist-E NARL, Tirupati	Rain Microphysics Associated with Continental, Oceanic, and Orographic Regions of India during Wet and Dry Spells	16.55 - 17.05
3	Dr. A.Raju Assoc. Professor IISER, Mohali	Deciphering the Characteristics of the Summer Monsoon Precipitation Extremes over the Indian Himalayas	17.05 - 17.15
4	PLN Murty Scientist-D, IMD, New Delhi	Future projections of storm surges and associated inland inundation along Indian coasts	17.15 - 17.25
5	Ananya Karmakar Scientist-C IMD, Pune	Identifying the long-term variability of heat discomfort over India: A pilot study by India Meteorological Department	17.25 - 17.35
6	Sravani Alanka Scientist IMD, Hyderabad	Evaluation and Investigation of Cloud-scale Downscaling Predictions for the 2023 Extreme Rainstorms over the Telangana Region	17.35 - 17.45
7	Shubhendu Karmakar Meteorologist, IMD & JIS University, Kolkata	Glacier Mass Budget and Associated influence of the Climatic and non-climatic factors during 1981-2021 in Eastern parts of Sikkim (Mangan district).	17.45 - 17.55
8	Sunkireddy Renuka Doctoral Student, NIT, Rourkela	Evaluating the role of updated Land Use Land Cover Data in simulating the heavy rainfall using WRF model: A Case Study of Palakkad and Tirupati	17.55 - 18.05

## Theme 5: Remote sensing applications to ocean and atmosphere

*Parallel session 3: Theme 5* (9 presentations @ 10 min each)

SAGARIKA HALL -2

**Time: 16.45 - 18.15**

S.No.	Authors/Affiliation	Title	Time
1	Ravi Kumar Kunchala Asst. Professor IIT Delhi New Delhi	Remote sensing and model simulations to understand the carbon dioxide (CO <sub>2</sub> ) variability and its source-sink relationship over India	16.45 - 16.55
2	Saurabh Tripathi Scientist-SD SAC, Ahmedbad	Use of RadCalNet data for the assessment of temporal radiometric performance of OCM-3 sensor onboard EOS-06	16.55 - 17.05
3	Mahalakshmi Scientist, NRSC Hyderabad	Study on atmospheric methane over Indian region using remote sensing	17.05 - 17.15
4	Surisetty V.V. Arun Kumar Scientist - SAC, Ahmedabad	Innovative Monitoring, Detection, and Prediction of Rip Currents Using Satellite Technology and Numerical Modelling	17.15 - 17.25
5	Ibrahim Shaik Scientist NRSC, Hyderabad	Enhanced Estimation of Surface Ocean Calcium Carbonate Saturation ( $\Omega$ ) Using Ocean Color Remote Sensing Data	17.25 - 17.35
6	Mahesh Nikam Project Scientist-I, I.I.T.M.	Remote sensing of clouds using Sky Imagers	17.35 - 17.45
7	Modi Anuradha Project Scientist, INCOIS	Impact of EOS-06 SCAT-3 Retrieved Wind Vectors on Short-Range WRF Model Predictions Over the Indian Ocean	17.45 - 17.55
8	Sneha Sunil Research Associate, I.I.T.M.	Investigating the Optical and Radiative Properties of Cirrus Clouds in the Lower Troposphere using Ground-based Remote Sensing	17.55 - 18.05
9	Adil Muhammed I K Student CUSAT	Assimilation of INSAT-3DR Rapid Scan WV/VIS/TIR AMVs in the WRF Model: A Case Study for Tauktae Tropical Cyclone	18.05 - 18.15

*Day - 3*

*20<sup>th</sup> September, 2024*

*Morning*

**Theme 1: Tropical weather systems - monsoons, tropical cyclones, land-ocean-atmosphere interactions**

**Parallel Session 1 – Theme1** (6 presentations @ 10 min each)

**CONVENTION CENTRE (MAIN HALL)**

**Time: 11.30 - 13.00**

<b>S.No.</b>	<b>Authors/Affiliation</b>	<b>Title</b>	<b>Time</b>
<b>1</b>	Prof. Anuja Tigga Dept. of Geography.	Tropical Cyclone Hazard Zonation of Andhra Pradesh State, India	11.30-11.40
<b>2</b>	Subhadeep Halder Dept. of Geophysics BHU	Does Irrigation Induced Land-Atmosphere Feedbacks in the CESM2 Model Affect the Indian Summer Monsoon?	11.40-11.50
<b>3</b>	Sagili Karunasagar Scientist-C, IMD Andhra Pradesh	Assessment of operational forecast issued for Andhra Pradesh during Severe Cyclonic Storm Michuang	11.50-12.00
<b>4</b>	Dr.Satish Univ. of Hyd. Hyderabad	Assessment of North-East Monsoon in the Seasonal Prediction Models	12.00-12.10
<b>5</b>	Anuj Gupta Research Scholar Uni. of Hyd.	Role of physical oceanographic parameters in impacting the cyclogenesis over Indian Ocean	12.10-12.20
<b>6</b>	Dinesh K Yadav Ph.D. Scholar Dept. of Geophysics BHU	Exploring the link between Indian Ocean Salinity variation and onset of monsoon in India	12.20-12.30

## Theme 4: Climate change, modeling; extreme weather events

*Parallel session 2: Theme 4* (11 presentations @ 10 min each)

**SAGARIKA HALL – 1**

**Time: 11.30 - 13.20**

S.No.	Authors/Affiliation	Title	Time
1	Iyer DG (Rtd.), Indian Navy	Impact of Climate Change on Naval Warfare	11.30-11.40
2	Dr. D. Jyothi Vice-President Adani Gangavaram Port, Vizag	Warm pool over the North Indian Ocean and their impact on monsoon circulation	11.40-11.50
3	Prof.P.V.S. Raju Amity University Rajasthan	Regional Climate Model Simulation over India: Implicit role of land surface and soil moisture initialization	11.50-12.00
4	Dr.V. Yesubabu Scientist, NARL, Tirupati	Impact of Cloud-Aerosol Feedback and Orography on Extreme Precipitation in Kerala, India	12.00-12.10
5	Amol Prakash Senior Scientist NIO-RC, Vizag	Wind-driven bottom current in the equatorial Indian Ocean	12.10-12.20
6	Krishna K Osuri NIT, Rourkela	Land surface processes at urban scale resolution on thunderstorms prediction	12.20-12.30
7	Srinivas G Scientist, NIO, Goa	The extreme Indian Ocean Dipole impact on the vertical structure of the equatorial Indian Ocean circulation	12.30-12.40
8	Subeesh M. P. Scientist C NPOL	Variability of Inertial and Near-inertial Waves in the Eastern Arabian Sea from Moored Observations	12.40-12.50
9.	Mrs. Sunanda Scientist, IMD	Heat wave in Andhra Pradesh during 2023 and 2024	12.50-13.00
10	Ashok Williams Project Scientist-I IMD, New Delhi	Comparison and Validation of Global Forecast System Datasets with Observations from Radiosonde	13.00-13.10
11	Narayana Reddy Research Scholar IIT Bhubaneswar	Variability and Prediction of Urban Heat Extremes	13.10-13.20

## Theme 6: Climate change impacts on agriculture, air pollution, aviation

*Parallel Session 3 – Theme 6* (9 presentations @ 10 min each)

**SAGARIKA HALL – 2**

**Time: 11.30 - 13.00**

S.No.	Authors/Affiliation	Title	Time
1.	Bhishma Tyagi Associate Professor NIT, Rourkela	Analyzing the Air Pollution and Precipitation Interactions by Raindrop Size Distributions of Pre-monsoon Season over an Industrial Tropical Indian Station	11.30 - 11.40
2	Dr. Upendra Scientist-D NCESS	Climate change impacts on the hydrological cycle of the Western Ghats River, Vamanapuram River basin, South India	11.40 - 11.50
3	A.Dharama Raju Scientist-D, IMD	Impact of Winter Weather Phenomena on Air Traffic at Rajiv Gandhi International Airport, Hyderabad, India	11.50 - 12.00
4	Jeni Victor Scientist-B IITM, Pune	The impact of surface meteorology on the levels of aerosols and pollutants during Diwali episode in rural site over Central India	12.00 - 12.10
5	P. K. Pradhan PDF, SVU	Assessment of Hydroclimatic Parameters over India during 1983-2022	12.10 - 12.20
6	Dr. Pradeep Kumar RJP-PDF Dept. of Geophysics	Air Pollution Monitoring and its Influences on Wheat Crop Yield	12.20 - 12.30
7	Neelima, A. Research Scholar, Dept. of Physics, A.U.	Long term regional variability of MODIS Aerosol Optical Depth over India and Adjoining Oceanic Regions	12.30 - 12.40
8	S. V. Phad Research Scientist Agro-meteorology, Krishi Vigyan Kendra, Nandurbar	Statistical Analysis of Rainfall Trend and Its Variability in Tribal Nandurbar District, Maharashtra, India	12.40 - 12.50
9	Amit Gangwar Research Scholar Uni. of Hyd. Hyderabad	Variability in Aerosol volume size distributions in Four Diverse Locations In India	12.50 - 13.00



*Day - 3*

*20<sup>th</sup> September, 2024*

*Afternoon*

**Theme 5: Remote sensing applications to ocean and atmosphere**

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**Theme 7: Defence R&D applications - ocean & atmosphere, green technology, zero carbon emissions**

*Parallel session 3: Theme 5 & 7 (6 presentations, 10 min each)*

**CONVENTION CENTRE (MAIN HALL)**

**Time: 15.40-16.40**

S.No.	Authors & Affiliation	Title	Time
1.	Ratheesh Ramakrishnan Scientist-F EPSA, SAC, Ahmedabad	The long term changes in the Total Suspended Matter of the World's major coastal turbid waters	15.40-15.50
2	G Nageswara Rao Scientist-Sc'F' CHESS, Hyderabad	Real-time Performance Evaluation of Laser Beam through Atmosphere	15.50-16.00
3	Seemanth M Scientist-SE POD/AOSG/EPSA SAC, Ahmedabad	Internal Solitary Waves observed from Surface Water Ocean Topography (SWOT), EOS-04 and Sentinel-1 Satellites	16.00-16.10
4	Dominic Ricky Fernandez Scientist-E NPOL	A global ocean environmental information package for anti- submarine warfare operations	16.10-16.20
5	Suchandra Scientist SAC, Ahmedabad	Variability of Sonic Layer Depth in Perspective of Climate Change	16.20-16.30
6	Arti Choudhary (Ph.D) RJP-PDF BHU, Varanasi, India	Assessment of Long Term Climatological Data: Sunshine Hour Trends and Anomaly in Southern India	16.30-16.40