



International Conference on Climate Adaptation and Resilience (CARE-25)

24-25 March, 2025, at the Seminar Complex,
Cochin University of Science and Technology (CUSAT).

CARE 25 - Program Summary

DAY 1 (24 March 2025) - Monday

Time	Program/Sessions	Venue
09:00AM -10:00AM	Conference Registration	Reception
10:00AM -11:00AM	Inaugural Session	Main Hall
11:00AM -11:30AM	Tea Break & Announcement to put up posters	Open Hall
11:30AM -01:00PM	Plenary Sessions- 2 Speakers	Main Hall
01:00PM -02:00PM	Lunch Break	Open Hall
02:00PM -03:30PM	Parallel Session 1: KSDMA-DRR	Main Hall
	Parallel Session 2: KSBB	Mini Hall-1
	Parallel Session 3: Climate Variability & Extremes (CVE)	Mini Hall-2
	Parallel Session 4: Climate Adaptation and Resilience (CAR)	Exec. Hall
03:30PM -04:00PM	Tea Break & Poster Evaluation	Open Hall
04:00PM -05:30PM	Parallel Session 1: KSDMA-DRR –Cont.	Main Hall
	Parallel Session 2: KSBB –Cont.	Mini Hall-1
	Parallel Session 3: Climate Variability & Extremes (CVE)- Cont.	Mini Hall-2
	Parallel Session 4: Tropical Weather and Climate (TWC)	Exec. Hall
06:00PM -07:30PM	Cultural Programme	Main Hall
07:30PM -09:30PM	Gala Dinner	Open Hall

DAY 2 (25 March 2025) - Tuesday

Time	Program/Sessions	Venue
09:30AM -10:30AM	Plenary Sessions- 2 Speakers	Main Hall
10:30AM -11:00AM	Tea Break & Poster Evaluation	Open Hall
11:00AM -01:00PM	Parallel Session 1: CMFRI – Marine Biodiversity, Ocean & Climate Change (MBC)	Main Hall
	Parallel Session 2: Climate Variability & Extremes (CVE)	Mini Hall-1
	Parallel Session 3: Climate Change Impacts and Modeling (CCI)	Mini Hall-2
	Parallel Session 4: Advancement in Climate Sciences (ACS)	Exec. Hall
01:00PM –02:00PM	Lunch Break	Open Hall
02:00PM -03:00PM	Panel Discussion – Theme: Weather Prediction, Climate Monitoring and Dissemination	Main Hall
03:00PM -04:00PM	Valedictory Function & Best Oral/Poster Awards	Main Hall
04:00PM -04:30PM	Tea Break	Open Hall
05:00PM -07:30PM	Alumni Meet –DAS	Main Hall
07:30PM -09:30PM	Dinner	Open Hall

*Main Hall: Anna Mani Hall, Mini Hall 1: Pisharoty Hall, Mini Hall 2: Ananthakrishnan Hall, Exe. Hall : Sikka Hall



International Conference on Climate Adaptation and Resilience (CARE-25)

Day-1: 24 March (Monday)

INAUGURAL SESSION (10:00– 11:00 Hrs)

PLENARY SESSION 1

24 March 2025, Time: 11.30-13.00 Hrs Venue: Hall 1 (Anna Mani Hall) Chairs: Prof. H. S. Ram Mohan, CUSAT & Dr. K. Rajendran, ICCS			
SN	Presenting Author	Institute/Affiliation	Title
1	Prof. Raghu Murtugudde	Emeritus Professor UMD, USA & Retired Professor, IITB	Climate Change Adaptation and Resilience - Challenges and Solutions.
2	Prof. K Mohankumar	Founder Director, ACARR-CUSAT	Celebrating Fifty Years of Meteorology at CUSAT: A Comprehensive Overview

TECHNICAL SESSION: TS-H1A (Parallel)

TS-H1A: KSDMA Joint Session - Disaster Risk Reduction (DRR) 24 March 2025, Time: 14:00-15:30 Venue: Hall 1 (Anna Mani Hall) Chairs: Dr. Sekhar Kuriakose, KSDMA & Dr. Max Martin, Christ University				
SN	Talks	Presenting Author	Institute	Title
1	Lead	Dr. Sekhar Kuriakose,	Member Secretary, KSDMA & Chief Resilience Officer, KSCCAM	Early warning dissemination systems and expectations from Academia
2		Smt. Neetha Gopal	Scientist F & Head, IMD Trivandrum	Early Warning Systems of IMD
3	Panel Discussions on “Role of Communities in DRR”		Panelists <ol style="list-style-type: none"> Eby Emmanuel, MRRM & Bhoomika, Poonjar S. P. Ravi, President, Kerala Nadeesamrakshana Samithi Vishnu Das, Director, Hume Center, Wayanad Rev. Fr. Francis Kambolathuparambil, VSSS, Munnar 	



International Conference on Climate Adaptation and Resilience (CARE-25)

TECHNICAL SESSION: TS-H2A (Parallel)

<p align="center">TS-H2A: KSBB Side Event Consultation On Agrobiodiversity In A Changing Climate Guarding Custodian Farmlands for Climate Adaptation and Resilience 24 March 2025, Time: 14:00-17:30 Venue: Hall 2 (Pisharoty Hall) Chair: Dr. R.V. Varma, Former Chairman, KSBB</p>		
1	KSBB Side Event	<p align="center">PANEL DISCUSSION Topic: Climate Adaptation and Resilience of Food and Agricultural Production Landscapes of Kerala</p> <p>Keynote speaker: Dr. Regine Andersen Research Director, Biodiversity and Natural Resources, Research Professor (Dr. Polit), Fridtjof Nansen Institute, Norway</p>
2	PANEL DISCUSSIONS	<p>PANEL DISCUSSION 1: On-farm Conservation of Genetic Diversity in a Changing Climate: Challenges and opportunities for both producers and consumers (Experiences of Custodian farmers).</p> <p>Chair: Dr. C.K. Peethambaran, Director of Research (Retd.), KAU, Vellanikkara Co-Chair: Dr. Easwaran E.K., Chief Forest Veterinary Officer (Retd), Kerala Forest Department Lead Discussant: Dr. C.K. Shaju, Deputy Director (Retd), Animal Husbandry</p> <p>PANEL DISCUSSION 2: Maintaining Landscape Heterogeneity and Landrace Diversity: Strategies for climate adaptation and resilience-building (Experiences of Custodian farmers).</p> <p>Chair: Dr. K. Joseph John, Principal scientist, ICAR-NBPGR, Thrissur Co-Chair: Dr. Vanaja T., Professor, Regional Agricultural Research Station, Pilicode, Kasaragod Lead Discussant: Dr. Deepa, Assistant Professor, Rice Research Station, Vyttila, Ernakulam</p> <p>PANEL DISCUSSION 3: Evoking Farmers' Rights: Maximizing climate-smart and socio- economic outcomes in seed production and management (Experiences of Custodian farmers).</p> <p>Chair: Dr. C. George Thomas, Former Chairman, KSBB Co-Chair: Dr. Shakeela., Director, M S Swaminathan Research Foundation, Community Agrobiodiversity Centre, Wayanad</p>



International Conference on Climate Adaptation and Resilience (CARE-25)

TECHNICAL SESSION: TS-H3A (Parallel)

TS-H3A: Climate Variability & Extremes (CVE)

24 March 2025, Time: 14:00-15:30

Venue: Hall 3 (Ananthakrishnan Hall)

Chairs: Prof. C. A. Babu, CUSAT & Dr. Govindankutty, IIST

SN	Talks	Presenting Author	Institute	Title
1	Lead	Dr. M. R. Ramesh Kumar	Rtd Scientist, NIO Goa	Vagaries in Monsoon: Role of Oceans
2	CARE-0049	Dr. KARTHEEK MAMIDI		DISPERSION CHARACTERISTICS OF ANISOTROPICALLY SCALED MOIST EQUATORIAL WAVES
3	CARE-0076	DHANYA JOSEPH		RISING SST AND SEA LEVEL VARIABILITY: A GROWING RISK FOR INDIA'S WEST COAST
4	CARE-0019	ASHISH SHAJI		CONVECTIVE CHAOS: HOW CLIMATE CHANGE ELECTRIFIES INDIAN WEST COAST?
5	CARE-0054	PRAJWAL K		WIND-PRECIPIATION REGIMES AND MONSOON INTRASEASONAL VARIABILITY: NEW INSIGHTS FROM THE SOUTHWEST COAST OF INDIA
6	CARE-0029	SRIPATHI GOLLAPALLI		VARIABILITY OF THE SOUTH ASIAN HIGH AND ITS IMPACT ON INDIAN SUMMER MONSOON RAINFALL: A MULTI-SCALE ANALYSIS



International Conference on Climate Adaptation and Resilience (CARE-25)

TECHNICAL SESSION: TS-H4A (Parallel)

TS-H4A: KSCCAM Joint Session-Climate Adaptation and Resilience (CAR)

24 March 2025, Time: 14:00-15:30

Venue: Hall 4 (Sikka Hall)

Chairs: Dr. Krishnamohan, CUSAT & Shri. Siji. M. Thankachan, KSCCAM

SN	Talks	Presenting Author	Institute	Title
1	Lead	Dr. Deepak Gopalakrishnan (Online)	Department of Meteorology, University of Reading, Reading, UK	Subtropical Jet Dynamics And Arabian Rainfall: A New Perspective
2		Dr. Vinoj V (Online)	IIT Bhubaneswar	Climate Change and the warming of the Indian Cities: Implications for Extreme Heat
2	CARE-0052	STEFY THOMAS	SOCIO-ECONOMIC VULNERABILITY AND CLIMATE RESILIENCE IN COASTAL KERALA: A MULTI-CRITERIA ASSESSMENT	
3	CARE-0095	KARTHIK	INCLUSION OF BIOETHICS IN GENERAL EDUCATION FOR CLIMATE CHANGE	
4	CARE-0103	RIYA K R	ANALYSING CLIMATE CHANGE VULNERABILITY AND ADAPTATION STRATEGIES IN KERALA	
5	CARE-0135 (ONLINE)	GOPIKRISHNAN G S	AEROSOL INHIBITION ON PHOTOCHEMICAL SURFACE OZONE FORMATION UNDER FUTURE CLIMATE AND AIR QUALITY SCENARIOS	
6	CARE-0090	LINCY DAVIS	VERIFICATION OF MEDIUM RANGE WEATHER FORECAST AND ITS ROLE IN AGROMET ADVISORY SERVICES	
7	CARE-0145 (ONLINE)	APARNNA RAVI	EXTREME EVENTS – ELUCIDATING THE DYNAMICS OF INDIAN TERRESTRIAL CARBON UPTAKE CAPACITY	



International Conference on Climate Adaptation and Resilience (CARE-25)

TECHNICAL SESSION: TS-H1B (Parallel)

TS-H1B: KSDMA Joint Session - Disaster Risk Reduction (DRR)

24 March 2025, Time: 16:00-17:30

Venue: Hall 1 (Anna Mani Hall)

Chairs: Prof. K. Mohankumar, CUSAT & Dr. Amal Dev, CUSAT

SN	Talks	Presenting Author	Institute	Title
1	Lead	Dr. P. S. Sunil	Professor, CUSAT	Subduction Zone Geohazards and its imprints in the Lithosphere-Atmosphere-Ionosphere coupled system
2	CARE-0067	Dr. ARAVINDH PANIKKAVEETIL		ASSESSING VULNERABILITY AND RISK TO EXTREME WEATHER EVENTS ON THE KERALA COAST USING IPCC AR4 AND AR5 FRAMEWORKS
3	CARE-0025	MELVIN MANOJ ABRAHAM		SOCIO-ECONOMIC VULNERABILITY AND DISASTER RESILIENCE: ASSESSING COASTAL HOUSEHOLDS IN VELIYANCODE PANCHAYAT, KERALA
4	CARE-0032	GAYATHRI R		COASTAL DISASTER RISK REDUCTION AND COMMUNITY RESILIENCE: A CASE STUDY FROM THALIKKULAM PANCHAYAT
5	CARE-0026	MIKHA KHOSH T L		ASSESSING COASTAL VULNERABILITY AND ENHANCING DISASTER RESILIENCE: A SOCIOECONOMIC STUDY IN ERIYAD GRAMA PANCHAYAT, KERALA
6	CARE-0020	ANJITHA A C		FIGHTING CLIMATE UNCERTAINTY: VULNERABILITY AND RESILIENCE IN KERALA'S COFFEE FARMING
7	CARE-0035	HEMAVARSHINI B R		AGRICULTURAL DROUGHT VULNERABILITY ASSESSMENT FOR ODDANCHATRAM TALUK, TAMIL NADU FOR THE YEARS 2000, 2008, 2016 AND 2022 USING GEOSPATIAL TECHNIQUES



International Conference on Climate Adaptation and Resilience (CARE-25)

TECHNICAL SESSION: TS-H3B (Parallel)

TS-H3B: Climate Variability & Extremes (CVE) (Cont.)

24 March 2025, Time: 16:00-17:30

Venue: Hall 3 (Ananthakrishnan Hall)

Chairs: Prof. K. Satheeshan, CUSAT & Shri. Baby Chakrapani, CUSAT

SN	Talks	Presenting Author	Institute	Title
1	Lead	Dr. Govindan Kutty, IIST, TVM	Professor, IIST	From Dynamics to Predictability: Leveraging Ensembles for Improved Weather Forecasts
2	CARE-0036	AMITA PRABHU		INFLUENCE OF SOUTHERN ANNULAR MODE EXTREMES ON SUMMER MONSOON RAINFALL IN INDIA AND WEST AFRICA
3	CARE-0042	TESNA MARIA		MOISTURE TRANSPORT AND ITS LINK WITH EXTREME MONSOON RAINFALL OVER THE WEST COAST OF INDIA
4	CARE-0045	ANCY P		DIURNAL AND SPATIAL VARIABILITY OF MONSOON RAINFALL OVER THE WEST COAST OF INDIA: INFLUENCE OF ATMOSPHERIC DYNAMICS AND MOISTURE TRANSPORT
5	CARE-0132	ARUN V		FEATURES OF RAINFALL DISTRIBUTION DURING TRANSITION FROM SOUTH WEST MONSOON TO POST MONSOON
6	CARE-0107	BICHU B		INCREASING INTENSITY OF POTENTIAL MESO TO SYNOPTIC SCALE LOW PRESSURE SYSTEMS IN THE NORTH INDIAN OCEAN: NEED OF AN EFFECTIVE EARLY WARNING SYSTEM FOR SOUTH-WEST COAST OF INDIA.
7	CARE-0083	ADARSH T		CLIMATE VARIABILITY AND ITS IMPACT ON PUBLIC HEALTH: A BIBLIOMETRIC STUDY
8	CARE-0031	LAKSHMAN KESIREDDY		HIGH-RESOLUTION ANALYSIS OF SEVERE HEAT WAVE DYNAMICS AND THERMAL DISCOMFORT ACROSS INDIA
9	CARE-0116	ATHIRA SALEEVAN		IMPACT OF FOREST FIRE ON SOIL SYSTEMS IN SOUTHERN WESTERN GHATS, KERALA



International Conference on Climate Adaptation and Resilience (CARE-25)

TECHNICAL SESSION: TS-H4B (Parallel)

TS-H4B: Tropical Weather and Climate (TWC)

24 March 2025, Time: 16:00-17:30

Venue: Hall 4 (Sikka Hall)

Chairs: Dr. Manoj M G., CUSAT & Dr. Abish B., KUFOS

SN	Talks	Presenting Author	Institute	Title
1	Lead	Dr. Jayasankar C. B. (Online)	Florida Sate University, USA	Diurnal Temperature Range Projections for India: A regional climate modeling approach
2		Dr. Baiju Dayanandan (Online)	University of Nizwa, Oman	Decadal Temperature Changes in Oman (1981–2020): A Spatiotemporal Assessment
2	CARE- 0014 (Online)	SEETHA CJ	EXCHANGE BETWEEN ATMOSPHERIC BOUNDARY LAYER AND FREE TROPOSPHERE OVER THE INDIAN MONSOON REGION	
3	CARE- 0108	ARDRA T S	EXPOSURE TO SURFACE OZONE AND ITS ASSOCIATED HEALTH EFFECTS IN INDIA FOR THE YEAR 2022	
4	CARE- 0027	AJITH P P	PRE-MONSOON RAINFALL VARIABILITY OVER INDIA IN ASSOCIATION WITH MJO AND ENSO	
5	CARE- 0129	KRISHNA KUMAR E.K	CONTRASTING REGIONAL RESPONSES OF INDIAN SUMMER MONSOON RAINFALL TO EXHAUSTED SPRING AND CONCURRENTLY EMERGING SUMMER EL NIÑO EVENTS	



International Conference on Climate Adaptation and Resilience (CARE-25)

Day-2: 25 March (Tuesday)

PLENARY SESSION 2

25 March 2025, Time: 09.30-10.30 Hrs

Venue: Hall 1 (Anna Mani Hall)

Chairs: Prof. Mohammad Hatha, CUSAT & Prof. P. Mohanan, CUSAT

SN	Presenting Author	Institute/Affiliation	Title
1	Prof. Raghu Murtugudde	Emeritus Professor UMD, USA & Retired Professor, IITB	Ocean Ecosystems - Silent Sufferers or Active Amplifiers?
2	Dr. Swapna Panickal	Scientist F, Dy. Director, CCCR, IITM, Pune	Coupled Modeling System for Assessing Regional Climate Response to Global Climate Change



International Conference on Climate Adaptation and Resilience (CARE-25)

TECHNICAL SESSION: TS-H1C (Parallel)

TS-H1C: CMFRI Joint Sessions on Marine Biodiversity, Oceans & Climate Change (MBC) 25 March 2025, Time: 11:00-13:00 Venue: Hall 1 (Anna Mani Hall) Chairs: Dr. Saji P. K., CUSAT & Dr. Imelda Joseph, Principal Scientist, CMFRI.				
SN	Talks	Presenting Author	Institute	Title
1	Lead	Dr. Ratheesh,	Scientist, CMFRI	Impacts of climate change on marine biodiversity and fisheries.
2		Dr. Vinu Valsala	Scientist F & Head, DESK, IITM	Climate Variability and Predictability of small Pelagic Fishes of Indian Coasts from a dynamic Modeling perspective.
3	CARE-0037	ASWANI S	DROUGHT MANAGEMENT IN RICE USING FOLIAR APPLICANTS	
4	CARE-0089	VENKADESH SAMYKANNU	SPATIO-TEMPORAL ASSESSMENT OF ECOLOGICAL VARIABILITY IN PUNJAB USING REMOTE SENSING ECOLOGICAL INDEX AND PADDY YIELD ANALYSIS	
5	CARE-0030	MALAVIKA A R	COMPARATIVE ANALYSIS AND STATISTICAL EVIDENCE OF DEEP OCEAN WARMING TREND IN THE ARABIAN SEA AND BAY OF BENGAL	
6	CARE-0117	AVINASH PAUL	A CASE STUDY OF THE LONGEST-LASTING MARINE HEATWAVE IN THE SOUTHEAST ARABIAN SEA	
7	CARE-0119	URMILA P	CLIMATE CHANGE AND RISING UNDERWATER NOISE LEVEL IN THE INDIAN OCEAN: IMPLICATIONS ON ACOUSTIC COMMUNICATION AND SENSING	
8	CARE-0121	PEARL JO AN K	CLIMATE VARIATION EFFECTS ON SOUND PROPAGATION LOSS IN SOUTH EASTERN ARABIAN SEA	
9	CARE-0013	HARIKRISHNAN NAMBOOTHIRY N	AN ANALYSIS OF URBAN HEAT ISLAND PHENOMENA IN THE URBAN AGGLOMERATIONS OF ERNAKULAM AND THIRUVANANTHAPURAM DISTRICTS OF KERALA	
10	CARE-0064	MEGHA MARIA LAL	BUILDING CLIMATE RESILIENT CITIES; THE ROLE OF ECO INNOVATION AND SUSTAINABLE INFRASTRUCTURE	



International Conference on Climate Adaptation and Resilience (CARE-25)

TECHNICAL SESSION: TS-H2C (Parallel)

TS-H2C: Climate Variability and Extremes (CVE) (Cont.)

25 March 2025, Time: 11:00-13:00

Venue: Hall 2 (Pisharoty Hall)

Chairs: Dr. Sabin. T. P, IITM & Dr. M. R. Ramesh Kumar, NIO, Goa

SN	Talks	Presenting Author	Institute	Title
1	Lead	Prof. Jayanarayan Kuttipurathu	IIT Kharagpur	Air pollution in India in a climate change context: impact of policies and environmental regulations
2		Prof. Girish Gopinath	KUFOS	Geospatial Technology for Mapping, Monitoring and Modelling of Landslides
3	CARE-0066	NANDHULAL K	INVESTIGATION ON THERMODYNAMIC PARAMETERS ASSOCIATED WITH THUNDERSTORM ACTIVITY IN KERALA, INDIA	
4	CARE-0065	AMINA HANEEF	MINI CLOUDBURST AND KOOTTICKAL LANDSLIDE: A HYDROMETEOROLOGICAL PERSPECTIVE ON EXTREME WEATHER EVENTS	
5	CARE-0120	ANU UNNY	A CRITICAL ANALYSIS OF SELECTED STATE ACTION PLANS ON CLIMATE CHANGE IN INDIA	
6	CARE-0113	JISHA K VISHAL	IMPACT OF VOLCANIC AEROSOLS ON THE INDIAN SUMMER MONSOON: INSIGHTS FROM THE PAST MILLENIUM	
7	CARE-0015	DR. SREEKUMAR HARIDAS	LOOMING DROUGHT ON INDIA'S WEST COAST: INSIGHTS FROM CMIP6 PROJECTIONS	
8	CARE-0085	SALMA JOSE	COMPREHENSIVE MONITORING AND ANALYSIS OF AEROSOL OPTICAL PROPERTIES IN THE CALICUT REGION USING ADVANCED OPTICAL INSTRUMENTS	
9	CARE-0096	BREANILA PAUL A	MARINE HEATWAVES IN THE ARABIAN SEA: EL NIÑO'S INFLUENCE AND MONSOON SEASON DYNAMICS	



International Conference on Climate Adaptation and Resilience (CARE-25)

TECHNICAL SESSION: TS-H3C (Parallel)

TS-H3C: Climate Change Impacts and Modeling (CCI)

25 March 2025, Time: 11:00-13:00

Venue: Hall 3 (Ananthakrishnan Hall)

Chairs: Dr. Madhu V., CUSAT & Dr. Vinod Shankar, Indian Air Force

SN	Talks	Presenting Author	Institute	Title
1	Lead	Dr. Praveen V. K	Scientist, IITM	Advancing the IITM Earth System Model: Insights in Version 3 Development
2		Dr. Hamza Varikoden	Scientist, IITM	Recent changes in the rainfall pattern over Western Ghats during southwest monsoon period
3		Prof. Sandeep, S	IIT, Delhi	Weakening of Indian Summer Monsoon in Response to Polar Sea Ice Melt
4	Invited	Prof. Sanjay Kumar Mehta	SRM	Overview On The Studies Of Atmospheric Boundary Layer Over The Indian Monsoon Region
5	CARE-0023	BALASUNDHAR B V	COMPREHENSIVE EVALUATION OF AEOLUS WIND PRODUCTS AGAINST IN-SITU OBSERVATIONS AND RE-ANALYSIS DATASETS OVER THE INDIAN MONSOON REGION	
6	CARE-0084	VINOD P G	GEO-SPATIAL ANALYSIS OF EROSION AND DEPOSITION TRENDS IN THE CHALIYAR RIVER BASIN, KERALA (2014–2024) USING REMOTE SENSING AND GIS-BASED SPECTRAL INDICES	



International Conference on Climate Adaptation and Resilience (CARE-25)

TECHNICAL SESSION: TS-H4C (Parallel)

TS-H4C: Advancement in Climate Sciences (ACS)
25 March 2025, Time: 11:00-13:00
Venue: Hall 4 (Sikka Hall)

Chairs: Dr. Sreekala P P, CUSAT & Dr. Ajil Kottayil, CUSAT

SN	Talks	Presenting Author	Institute	Title
1	Lead	Dr. SHINTO ROOSE (online)	McGill University, CANADA	APPLICATION OF HIGH-RESOLUTION CLIMATE SIMULATIONS TO UNDERSTAND THE IMPACT OF URBAN HEAT MITIGATION STRATEGIES IN MONTREAL
2		Dr. ATHIRA U N (Online)	KAUST	CHARACTERISTICS OF WEATHER EXTREMES OVER ARABIAN PENINSULA
3	CARE-0069	Dr. KAVYA JOHNY	WHEN AI MEETS METEOROLOGY: MODELLING THE 2018 EXTREME KERALA FLOOD	
4	CARE-0041	KRISHNA JAYAMOHAN	DEEP LEARNING-BASED PREDICTION MODEL AND EARLY WARNING FOR RAINFALL-INDUCED LANDSLIDES IN IDUKKI, KERALA	
5	CARE-0040	ELIZABETH SHANIN X	OFFSHORE WINDFARMS AND UNDERWATER NOISE PROLIFERATION	
6	CARE-0168	SARATH KUMAR D	URBAN SPRAWL ASSESSMENT USING AI BASED ML TECHNIQUES - A CASE STUDY ON COIMBATORE CITY, TAMILNADU	
7	CARE-0131 (Online)	MEHZOOZ NIZAR	CLOUDSENSE: A MODEL FOR CLOUD TYPE IDENTIFICATION USING MACHINE LEARNING FROM RADAR DATA	



International Conference on Climate Adaptation and Resilience (CARE-25)

TECHNICAL SESSION: TS-H1D

TS-H1D: **Weather Prediction, Climate Monitoring and Dissemination**

25 March 2025, Time: 14:00-15:30

Venue: Hall 1 (Anna Mani Hall)

Chairs:

Dr. P. V. Revikumar, Qatar Aeronautical Academy & Smt. Sudha Namboothiri (Times of India)

SN	Talks	Presenting Author	Institute	Title
			Panelists	
		Panel Discussions on “ Weather Prediction, Climate Monitoring and Dissemination ”		<p>Dr. Max Martin, Christ University : Forecasting with Fishers: A Community-based Approach to Climate Adaptation.</p> <p>Dr. Susmitha, IITM : Extended Range Prediction and Applications.</p> <p>Dr. Prasanth Pillai, IITM : Seasonal Prediction of Rainfall and Temperature over Indian region.</p> <p>Dr. Sabin T P: The Need for High-Resolution Climate Simulations for Sectoral Applications.</p> <p>Mr. Jamshad (Suprabhatham Daily, Media): Role of Media in the dissemination of Weather forecasts.</p>

15:30 PM – 16:00 PM **Valedictory Function and Best Oral/Poster Awards**

16:00 PM – 16:30 PM **Tea Break**

17:00 PM - 17:30 PM **Alumni Meet (Venue: Main Hall)**

19:30 PM - 21:30 PM **Dinner**



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Poster Evaluation (24 March, 03:30 PM- 04:00 PM) Theme:

Climate Variability and Extreme Weather Events - 17

CARE-0028	KARTHIKA G	STRENGTHENING TRADE WINDS IN A CHANGING CLIMATE
CARE-0033	NEETHU C S	INTENSIFICATION OF HEAT WAVES IN INDIA: SYNOPTIC CONDITIONS AND ATMOSPHERIC DYNAMICS
CARE-0044	SREESHMA K	INTRA SEASONAL RAIN ISOTOPIC DYNAMICS OF BAY OF BENGAL REGION
CARE-0053	NIRANJANA KRISHNA	ANALYZING THE HEAT WAVE AND ITS IMPACT ON HEAT STRESS: A COMPARATIVE STUDY BETWEEN RAJASTHAN AND ANDHRA PRADESH
CARE-0068	ARUN P THOMAS	SEASONAL VARIABILITY OF PM2.5 AND PM10 IN KOCHI, INDIA; INFLUENCE OF COVID-19 LOCKDOWNS AND EXTREME POLLUTION EVENTS ON AIR QUALITY
CARE-0071	SHARON WILLIAMS	BOUNDARY LAYER AND CLOUD CHARACTERISTICS OBSERVED BY CEILOMETER AT A TROPICAL STATION DURING THE 2024 SOUTHWEST MONSOON
CARE-0072	RISNA USMAN A	RAPID INTENSIFICATION OF TROPICAL CYCLONE OVER NORTH INDIAN OCEAN
CARE-0075	FATHIMA KAMARUDHEEN	EVALUATION OF TREND ANALYSIS METHODS USING IMD DATASET (1901 TO 2023) OVER INDIA
CARE-0078	RONA MARIA SUNIL	STJ-MODULATED TEJ VARIABILITY: A NEW PERSPECTIVE ON INTRASEASONAL MONSOON DYNAMICS
CARE-0081	THANAYA PRADEEP	ENSO MODULATION OF ABSORBING AEROSOL DYNAMICS OVER THE INDO-GANGETIC PLAIN UNDER A CHANGING CLIMATE.
CARE-0082	BETSY KB	ROLE OF AEROSOLS ON PROLONGED EXTREME HEATWAVE



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		EVENT OVER INDIA AND ITS IMPLICATION TO ATMOSPHERIC BOUNDARY LAYER
CARE-0091	SREEVIDYA RAVI	ANALYSIS OF THE EXTREME RAINFALL EVENT OVER KERALA ON OCTOBER 16, 2021, USING NUMERICAL SIMULATION: A CASE STUDY
CARE-0099	NAVEEN A Y	DECODING LANDSLIDE RISKS: A UNIFIED AHP, GIS, AND RAINFALL THRESHOLD APPROACH IN IDUKKI DISTRICT, KERALA
CARE-0106	AKSHAYA MURALEEDHARAN V	CHARACTERISTICS OF INTERNAL WAVES ASSOCIATED WITH EL-NINO YEARS IN THE NORTHERN BAY OF BENGAL USING OMNI BUOY DATA - BD08
CARE-0109	HINDHIYA SHABU	MULTIDECADAL VARIABILITY IN ENSO-INDIAN MONSOON COUPLING IN LAST MILLENNIUM COUPLED MODEL SIMULATIONS AND PALEOCLIMATE DATA ASSIMILATION PRODUCTS
CARE-0112	SUHA A SALIM	ASSESSING HEAT STRESS TRENDS IN KERALA: A REGIONAL ANALYSIS USING HEAT INDEX
CARE-0114	P N MUHAMMED ALTHAF	CHANGING PATTERNS OF MONSOONAL RAINFALL AND CLIMATE VARIABILITY OVER NORTHWEST INDIA: A CENTURY-LONG PERSPECTIVE ON RAINFALL TRENDS, EXTREMES, AND CIRCULATION DYNAMICS



International Conference on Climate Adaptation and Resilience (CARE-25)

Poster Evaluation (25 March 2025, 10:30 AM- 11:00 AM)

Disaster Risk Reduction and Early Warning Systems – 3

CARE-0073	VISHNU SUBRAN	LANDSLIDE SUSCEPTIBILITY ASSESSMENT USING FREQUENCY RATIO METHOD IN SUB-WATERSHEDS OF MEENACHIL RIVER BASIN
CARE-0093	SREELAKSHMI K S	EXPLORING THE MADDEN-JULIAN OSCILLATION'S INFLUENCE ON KERALA'S RAINFALL DYNAMICS
CARE-0155	SURAJ P R	SITE SPECIFIC SLOPE STABILITY ANALYSIS USING LIMIT EQUILIBRIUM METHOD (LEM) FOR SELECTED LANDSLIDE SUSCEPTIBLE SOIL SLOPE FACES OF MALAPPURAM DISTRICT OF KERALA, INDIA

Sustainable Infrastructure and Urban Resilience - 3

CARE-0092	SRIYANSU NAYAK	SPATIOTEMPORAL ANALYSIS OF LAND USE LAND COVER CHANGES ON URBAN HEAT ISLAND INTENSIFICATION AND THERMAL COMFORT IN PALAKKAD, KERALA
CARE-0111	HARINANDANA M S	URBAN HEAT ISLAND: A CLIMATOLOGICAL PERSPECTIVE
CARE-0059	ABHILASH U BAGUNAVAR	INFLUENCE OF SOIL TEMPERATURE ON SOYBEAN ECOSYSTEM



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AI/ML Techniques in Climate Sciences - 3

CARE-0034	DHARMADAS JASH	PREDICTING THUNDERSTORM EVOLUTION USING DEEP LEARNING MODELS WITH DOPPLER WEATHER RADAR OBSERVATIONS.
CARE-0097	AJAYKUMAR V C	OPTIMIZING RAINFALL PREDICTION WITH DEEP LEARNING ALGORITHMS AND ENSEMBLE METHODS
CARE-0098	ABHIJITH PRASAD M	APPLICATIONS OF AI IN SEA SURFACE TEMPERATURE MODELLING: A REVIEW

Advancement in Observational Techniques – 5

CARE-0009	ANGEL ANITA CHRISTY	A CUTTING-EDGE WIND PROFILING RADAR FOR EXPLORING THE ATMOSPHERIC BOUNDARY LAYER
CARE-0024	ATHIRA BABY	STUDIES ON ENHANCED LIGHTNING ACTIVITY OVER THE LIGHTNING HOTSPOT OF INDIA
CARE-0084	VINOD P G	INTEGRATING REMOTE SENSING AND STATISTICAL MODELLING FOR WATER QUALITY ASSESSMENT USING SENTINEL-2: A CASE STUDY OF SASTHAMKOTTA LAKE, KERALA
CARE-0085	SALMA JOSE	INVESTIGATION OF ATMOSPHERIC NO, NO ₂ , OZONE, AND NITRATE RADICAL FLUCTUATIONS IN CALICUT USING CAVITY-ENHANCED MEASUREMENTS
CARE-0115	Dr AISWARYA S	WAVELENGTH-RESOLVED OPTICAL PROPERTIES RETRIEVAL OF AMBIENT AEROSOLS USING A NOVEL CAVITY-ENHANCED ALBEDOMETER



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Climate Modeling and Forecasting - 3

CARE-0100	CHANDANA B JYOTHI	MODELING THE FUTURE OF RICE CULTIVATION IN CENTRAL KERALA: CLIMATE CHANGE AND YIELD PROJECTIONS
CARE-0125	PRAVEEN S	HARNESSING WIND ENERGY DURING THE MONSOON SEASON: OPPORTUNITIES AND CHALLENGES FOR INDIA
CARE-0144	PRASANTH A. PILLAI	EFFICIENCY OF CLIMATE FORECAST SYSTEM CFSV2 TO PREDICT THE REGIONAL SCALE DROUGHT EVENTS OVER INDIA