



XIIth Scientific Assembly of the International Association of Hydrological Sciences (IAHS 2025)

October 05-October 10, 2025 | IIT Roorkee, India



2.5 Poster | Tuesday, October 7

S.No.	Abstract ID	Abstract Title	Theme	Contribution Type	Participant Name	Affiliation	Country
1	IAHS25_ABS_R6780	Change in probable maximum precipitation in a changing climate over the Upper Indus Basin.	ICSH	Poster	Mr. Aman Kumar	IIT Roorkee	India
2	IAHS25_ABS_S4427	Evaluating the Performance of Uni- and Multivariate Bias Correction Techniques: Challenges in Preserving Temporal and Dependence Structures	ICSH	Poster	Mr. Sachidanand Sharma	IIT Roorkee	India
3	IAHS25_ABS_W4198	Streamflow drought indices in the Morava River basin - an update	ICSH	Poster	Dr. Ondrej Ledvinka	Czech Hydrometeorological Institute	Czech Republic
4	IAHS25_ABS_H2231	A novel approach to detect changes in the variability of the hydro-climatic record in the wettest state Meghalaya India.	ICSH	Poster with Video-Interview (Poster and 3-minute video interview)	Mr. Chingka Kalai	IIT Roorkee	India
5	IAHS25_ABS_Q2530	Assessing Rainfall Seasonality Regimes in India's East Coastal Region during 1953-2022	ICSH	Poster	Dr. Yellamelli Ramji Satyaji Rao	National Institute of Hydrology Roorkee	India
6	IAHS25_ABS_X7709	Enhancing smallholder sociohydrological predictions at plot scale by novel data assimilation of high-resolution soil moisture and biomass data	ICSH	Poster	Mr. Mario Alberto Ponce Pacheco	Delft University of Technology Faculty of Civil Engineering and Geosciences	Netherlands
7	IAHS25_ABS_H4489	Development of new framework on wavelet-based time-scale dependent sensitivity analysis of hydrological models	ICSH	Poster	Ms. SAI SUSWARA VADDADI	IIT Hyderabad	India
8	IAHS25_ABS_P2172	Unravelling the Spatiotemporal Variability of Soil Moisture and Soil Temperature Across India (1961â€“2023): Insights from ERA5 Reanalysis Data	ICSH	Poster	Mr. Sai Bargav Reddy Muskula	IIT Roorkee	India
9	IAHS25_ABS_X6071	Identifying threats to protection goals in intermittent rivers	ICSH	Poster	Prof. Krzysztof Kochanek	Warsaw University of Technology	Poland
10	IAHS25_ABS_T3535	Regularized calibration of conceptual hydrological models	ICSH	Poster	Dr. Saket Pande	Delft University of Technology	Netherlands
11	IAHS25_ABS_X4332	JOINT PROBABILITY MODELLING OF FLOOD VARIABLES FOR THE DESIGN FLOOD ESTIMATION IN SOUTH AFRICA	ICSH	Poster	Mr. Sandile Sifiso Sifiso Dladla	University of KwaZulu natal and University of Free State	South Africa
12	IAHS25_ABS_I3297	Assessing the Effectiveness of Agricultural Drought Indices: A Multiplex Networks Perspective	ICSH	Poster	Mr. Kasi Venkatesh	IIT Bombay	India
13	IAHS25_ABS_Q3503	Apprehending total water storage components of GRACE using temporal decomposition for the Ganga basin	ICSH	Poster	Ms. Snehil Dubey	IIT Hyderabad	India
14	IAHS25_ABS_S1860	Recurrence Analysis of Streamflows of Krishna River Basin	ICSH	Poster	Ms. Susan Mariam Rajesh	TKM College of Engineering	India



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15	IAHS25_ABS_Y3460	Evaluating the Water Availability Status in Jammu and Kashmir using Statistical Hydrological Approach	ICSH	Poster	Mr. Dheeraj Mohan Gururani	IIT Jammu	India
16	IAHS25_ABS_C3401	Multi-Model Evaluation of Sub-Seasonal Rainfall and Temperature Forecasts in India: Implications for Drought Prediction	ICSH	Poster	Ms. Paushali Deb	IIT Bombay	India
17	IAHS25_ABS_D1655	Enhancing Hyperlocal Extreme Rainfall forecasts for Mumbai	ICSH	Poster with Video-Interview (Poster and 3-minute video interview)	Ms. Puja Tripathy	IIT Bombay	India
18	IAHS25_ABS_C5624	Optimal satellite based precipitation datasets for extreme precipitation analysis in Meghalaya: a comprehensive study on dataset selection and spatio-temporal trends	ICSH	Poster with Video-Interview (Poster and 3-minute video interview)	Dr. Pushpendra K Singh	Sardar Vallabhbhai Patel University of Agriculture & Technology Meerut	India
19	IAHS25_ABS_H7546	High-Flow Sediment Transport Alterations Due to Damming in the Godavari River Basin	ICSH	Poster	Ms. Anubhuti Singh	Indian Institute of Science Education and Research Bhopal	India
20	IAHS25_ABS_D8041	Estimating Vulnerability to Compound Dry and Hot Extremes in the Madhya Pradesh: A District-Level Perspective	ICSH	Poster	Mr. Chaitanya Raj	Indian Institute of Science Education and Research Bhopal	India
21	IAHS25_ABS_Y4009	Vine Copula based Multivariant Flood risk Assessment on Beas River Basin	ICSH	Poster	Mr. Saran Raaj	IIT Mandi	India
22	IAHS25_ABS_W7845	Understanding hydrodynamics of three spring clusters in Leh region of Ladakh Union Territory	ICSH	Poster	Mr. Aamir Jan Farooq	GB Pant National Institute of Himalayan Environment	India
23	IAHS25_ABS_B2850	From Uncertainty to Reliability: Validating and Merging Soil Moisture Data in India	ICSH	Poster	Ms. Upasana Jha	IIT Hyderabad	India
24	IAHS25_ABS_V6913	Suspended Sediment Load Estimation of the Godavari River Basin Using Tree-based Machine Learning Algorithms	ICSH	Poster	Mr. Soumya Kundu	IISER Bhopal	India
25	IAHS25_ABS_C8114	Transforming Flash Drought Forecasting: Evaluating Custom AI and Time Series Foundation Models	ICSH	Poster	Mr. ASHISH PATHANIA	IIT Mandi	India
26	IAHS25_ABS_V1384	Characterizing Rainfall Thresholds for Landslide Early Warning in the Indian Himalayas	ICSH	Poster	Mr. Salil Sharma	IIT Mandi	India
27	IAHS25_ABS_H7883	Assessing the Transition from Meteorological to Hydrological Extremes: A Circular Statistics Analysis of Drought and Flood Dynamics in the Mahanadi Basin	ICSH	Poster	Mr. Mayank Tyagi	IIT Roorkee	India
28	IAHS25_ABS_X1402	Risk of Extreme Precipitation on Dam Infrastructure under changing climate over India	ICSH	Poster	Mr. Mayank Tiwari	IIT Jodhpur	India



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29	IAHS25_ABS_N7045	Prediction of Temperature and Precipitation in Narmada River Basin Using GUI Matlab Tools	ICSH	Poster	Mr. RAVIKANT Azad National Institute of Technology KUMAR	MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY BHOPAL	India
30	IAHS25_ABS_R4769	Spatio -temporal Analysis of Monsoon Rainfall patterns in the Pennaiyar Basin using a Bayesian Hidden Markov Model	ICSH	Poster	Mr. Nagesh Mishra	IIT Madras	India
31	IAHS25_ABS_W7222	Assessing Compound Dry and Hot Events in Indian Smart Cities: Historical Trends and Future Projections under +2Â°C and +4Â°C Climate Change Scenarios	ICSH	Poster	Ms. Vaishnavi Sahu	Indian Institute of Science Education and Research Bhopal	India
32	IAHS25_ABS_H7446	Development of Intensity-Duration-Frequency Curves for Urban Infrastructure Design using Sub-Daily Disaggregated Rainfall Data	ICSH	Poster	Ms. Saraswati Harivenu Nair	IIT Delhi	India
33	IAHS25_ABS_L1799	Climate change Impacts North Indian Region using CMIP6 Model outputs	ICSH	Poster	Prof. Shashikanth Kulkarni	University College of Engineering Osmania University	India
34	IAHS25_ABS_H3517	Does River Basin Morphology Reflect Landscape Evolution?	ICSH	Poster	Ms. Saba Shakeel Raina	IIT Bombay	India
35	IAHS25_ABS_S4246	Improving Hershfield method-based Probable Maximum Precipitation estimates with the use of Peaks over threshold series	ICSH	Poster	Ms. Jaya Bhatt	Indian Institute of Science	India
36	IAHS25_ABS_D1383	Narrowing at-site flood frequency analysis using simulations from the continental AWRA-L landscape model	ICSH	Poster with Video-Interview (Poster and 3-minute video interview)	Dr. Julien Lerat	CSIRO	Australia
37	IAHS25_ABS_U4512	Efficacy of Change Point Tests in Identifying Non-stationarity Conditions in Hydrological Time Series	ICSH	Poster with Video-Interview (Poster and 3-minute video interview)	Prof. Priyank J Sharma	IIT Indore	India
38	IAHS25_ABS_I9896	High-Resolution CMIP6 Downscaled Precipitation and Temperature Dataset Over South Asia	ICSH	Forum Oral with Poster (1- minute flash presentation and poster)	Ms. Neharika Bhattarai	IIT Delhi	India
39	IAHS25_ABS_G2403	Teleconnection-informed frequency analysis of rainfall extremes	ICSH	Forum Oral with Poster (1- minute flash presentation and poster)	Dr. Andrea Magnini	University of Bologna	Italy



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40	IAHS25_ABS_G1792	Insurance as a tool to manage the flooding risk	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Prof. Giorgio Roth	Università di Genova	Italy
41	IAHS25_ABS_R8145	Evaluation of different precipitation data over the Pamba River basin Kerala	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Geethika Moorthy	IIT Roorkee	India
42	IAHS25_ABS_W5998	Statistical Characterization of Upstream Flooding Patterns Induced by Culvert Capacity Exceedance	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Berina Mina Kilcarslan	New York University	United States
43	IAHS25_ABS_C9651	Ensemble Streamflow Data Assimilation in the Indian Subcontinent using vector-based Hydrodynamic Model and Novel Localization Techniques	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Ved Prakash	IIT Delhi	India
44	IAHS25_ABS_X8330	Exploring Spatial Drought/Flood Synchronization Across India in a Multidimensional Framework	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. SIDHAN V V	IIT Delhi	India
45	IAHS25_ABS_X7547	Partitioning hydrologic uncertainty into model parameter contributions and their association with catchment attributes	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Arpita Mondal	IIT Bombay	India
46	IAHS25_ABS_G3850	GEV Annual Maximum Precipitation Quantile with Regional Shape Parameter	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Prof. Dirceu Silveira Reis Jr	University of Brasilia	Brazil
47	IAHS25_ABS_B3154	A rainfall runoff database for improving the flood forecasting: The Case Study of the Crati River Basin – the Tech4You Project	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Stefania Camici	Research Institute for Geo-Hydrological Protection	Italy
48	IAHS25_ABS_F7029	Exploring Coincidental Compound Extremes in Pan-Himalayan River Basins under Changing Climate	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Achala Singh	IIT Indore	India
49	IAHS25_ABS_T7640	A physics-informed Graph Neural Network Framework for Post-processing Ensemble streamflow simulations in a river network	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Anagha P	IIT Delhi	India
50	IAHS25_ABS_L6982	Application of Polynomial Chaos Expansion method for hydrological model uncertainty	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Prof. Tirupati Bolisetti	University of Windsor	Canada



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51	IAHS25_ABS_J7528	Quantifying Multivariate Streamflow Drought Hazards in Large River Basins Accounting Onset Seasonality and Event Magnitude	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Aparna Raut	IIT Kharagpur	India
52	IAHS25_ABS_H7736	Evaluation of the performance of satellite-based rainfall products in the South-East of the Congo Basin in Lubumbashi region	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Benjamin Kitambo	University of Lubumbashi	Democratic Republic of The Congo
53	IAHS25_ABS_J5057	A Channel Network Morphology-based Perspective on Discharge-Basin Area Scaling	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Akshay Kadu	IIT Bombay	India
54	IAHS25_ABS_W1775	Detecting trends in extreme long duration rainfall data in KwaZulu-Natal South Africa.	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Demian Vusimusi Mukansi	University of KwaZulu-Natal	South Africa
55	IAHS25_ABS_V6256	Surface Urban Heat Island in Indian Cities and Its Correlation with Urbanization	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Saeed Soleimani	IIT Bombay	India
56	IAHS25_ABS_K8478	A Bayesian Copula-Based Integrated Drought Index (IDI) for Holistic Drought Monitoring in India	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Usman Aliakbar Mohseni	IIT Roorkee	India
57	IAHS25_ABS_T8926	Rainfall Forecasting using Deep-Learning based LSTM Model	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Subhashis Chowdhury	IIT Bombay	India
58	IAHS25_ABS_A9129	Robust estimation of present and future flood quantiles and extreme event attribution based on a non-stationary climate-informed weather generator	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Sergiy Vorogushyn	GFZ Helmholtz Centre for Geosciences	Germany
59	IAHS25_ABS_K2495	Incorporating Non-Stationarity in Design Flood Estimation Guidance	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Deepali Rawat	IIT Roorkee	India
60	IAHS25_ABS_H8518	Comparative Analysis of the compounding effects of zero and extreme rainfall events with extreme temperatures in the southern peninsula of India	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Nithya R L	National Institute of Technology Calicut	India
61	IAHS25_ABS_B4465	Have heat and cold waves intensified over Central India in the recent period?	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Vikas Sudam Gore	IIT Indore	India



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62	IAHS25_ABS_N8595	Exploring the Linkages between Heatwaves and Droughts in the Upper Chambal Basin	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Harshvardhan Solanki	IIT Indore	India
63	IAHS25_ABS_Q2742	Filling Intermittent and Continuous Discharge Data Gaps: A Comparative Evaluation of Imputation Methods	ICSH	Forum Oral with Poster (1-minute flash presentation and poster)	Prof. Priyank J Sharma	IIT Indore	India
64	IAHS25_ABS_K5160	Multivariate analysis of extreme space-time rainfall events based on raingauge data	ICSH	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Prof. Fabio Castelli	University of Florence	Italy
65	IAHS25_ABS_X2853	Regional Calibration of a Lumped Hourly Hydrological Model Using a Decision-Tree Approach	ICSH	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Ms. Giuditta Smerilli	University of Bologna	Italy
66	IAHS25_ABS_R7819	Assessing Future Dam Breach Risks and Safer Hydropower Solutions in the Himalayan River Basins: A Case Study of Tamakoshi Basin	ICSH	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Dr. Zainab Khan	Aligarh Muslim University	India
67	IAHS25_ABS_K2201	Climate-Informed Model for Forecasting Flood Quantiles in Indian Catchments	ICSH	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Mr. Abinesh Ganapathy	IIT Roorkee	India
68	IAHS25_ABS_W9423	The Coupled Rootâ€ˆSoil Interactions Modeling: A Gateway to Resolving Hydro-biological Complexities of the Land Surface	HELPING theme 1	Poster	Prof. Yi Luo	Institute of Geographic Sciences and Natural Resources Research Chinese Academy of Sciences	China
69	IAHS25_ABS_K5452	Assessing the role of spatial variability in climate forcing on soil moisture simulated using a hyper-resolution land surface model at the farm scale	HELPING theme 1	Poster	Mr. Vishnu U Krishnan	IIT Bombay	India



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70	IAHS25_ABS_N4484	Implementing deficit irrigation systems -- differences and similarities across world regions	HELPING theme 1	Poster	Dr. Niels Schuetze	TU Dresden	Germany
71	IAHS25_ABS_G2583	Statistical methods and climate models jointly analyze the impact of climate change in large river basins	HELPING theme 1	Poster	Prof. Tie Liu	Zhejiang University of Technology	China
72	IAHS25_ABS_P9148	Water solutions in the Anthropocene IAHS's third scientific decade. Keeping the pace	HELPING theme 3	Poster with Video-Interview (Poster and 3-minute video interview)	Prof. Thom Bogaard	Delft University of Technology	Netherlands
73	IAHS25_ABS_A9513	Pluralizing water epistemologies: the need for a decolonised water representation	HELPING theme 3	Poster with Video-Interview (Poster and 3-minute video interview)	Dr. Giulio Castelli	University of Florence	Italy
74	IAHS25_ABS_O7542	Indian Climate Information Explorer(INCLINE) : A Unified Platform for Climate Data Visualization and Download for Indian subcontinent	HELPING theme 3	Poster with Video-Interview (Poster and 3-minute video interview)	Mr. Siddik Barbhuiya	IIT Mandi	India
75	IAHS25_ABS_M8479	What do we need to know? Ten questions about climate and water challenges in Berlin-Brandenburg	HELPING theme 3	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Pedro Henrique Lima Alencar	Technische Universität Berlin	Germany
76	IAHS25_ABS_Q6225	Using collaborative Agent-Based Modelling (ABM) to enhance decision making in agricultural water use	HELPING theme 3	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. David Gwapedza	University of Namibia	Namibia
77	IAHS25_ABS_H4634	Participatory pseudo-quantification of the effects of citizen-led adaptation on household flood risk in Tamale Ghana	HELPING theme 3	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Dr. Ben Christopher Howard	Imperial College London	United Kingdom
78	IAHS25_ABS_T3934	How Can the IAHS's Digital Water Globe Enhance Research Visibility and Improve Network Connectivity in a Society Under Transformation?	HELPING theme 3	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Prof. Eduardo Mario Mendonzo	University of Sao Paulo Brazil	Brazil
79	IAHS25_ABS_T2101	Fair Water's management of floods and droughts through collaboration and co-creation	HELPING theme 3	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Prof. Berit Arheimer	Swedish Meteorological and Hydrological institute (SMHI)	Sweden



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80	IAHS25_ABS_X7284	Science Communication in HELPING - A Community Perspective on Common Challenges and Best-Practice Solutions	HELPING theme 3	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Dr. Christina Anna Orieschnig	Institut de Recherche pour le Développement	France
81	IAHS25_ABS_Y9599	Multiple-Scale Variation and Driving Factors of Snow/Ice Melting Floods in Yarkant River Basin Karakoram Mountains	HELPING theme 1	Poster	Mr. Weian Si	University of Chinese Academy of Sciences	China
82	IAHS25_ABS_D6839	Decadal Predictability of Indian Summer Monsoon Rainfall: Influence of SST patterns across distinct oceanic regions	HELPING theme 1	Poster	Dr. Junaid Dar	IIT Bombay	India
83	IAHS25_ABS_N9920	Analysis of the compound impact of antecedent dry periods and rainstorm events on urban diffuse pollution and resulting surface water pollution	HELPING theme 1	Poster	Prof. Eva Paton	Technical University of Berlin	Germany
84	IAHS25_ABS_G7241	Linking hydrology with grassland dynamics for sustainable management of the tiger habitat in Terai Arc Landscape Nepal	HELPING theme 1	Poster	Prof. Thom Bogaard	Delft University of Technology	Netherlands
85	IAHS25_ABS_E2053	How to deeply communicate with hydrological changesâ€”DEEPHY examples	HELPING theme 1	Poster with Video-Interview (Poster and 3-minute video interview)	Prof. Suxia Liu	Institute of Geographic Sciences and Natural Resources Research Chinese Academy of Sciences	China
86	IAHS25_ABS_S2772	When rivers dry out: an intermittency analysis for Central Europe	HELPING theme 1	Forum Oral with Poster (1-minute flash presentation and poster)	Prof. Eva Paton	Technical University of Berlin	Germany
87	IAHS25_ABS_R7416	Assessing the Impacts of Landscape Change on Riverine Ecosystem Services in the Upper Beas Catchment	HELPING theme 1	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Prakhar Sharma	IIT Roorkee	India
88	IAHS25_ABS_G4215	Deep Learning-Based Approach for Daily Streamflow Prediction in Watersheds With Aggregated and Intermittent Observations	HELPING theme 1	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Nikunj K Mangukiya	IIT Roorkee	India
89	IAHS25_ABS_P3799	Landholders leverage over moisture flows and forest resilience in South America	HELPING theme 1	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Dr. Chandrakant Singh	Chalmers University of Technology	Sweden



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90	IAHS25_ABS_B4930	CASCADE-3C: Collaborative Climate Change Risk and Adaptation	HELPING theme 1	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Prof. Jamil Alexandre Ayach Anache	SÃ£o Carlos School of Engineering University of SÃ£o Paulo	Brazil
91	IAHS25_ABS_J8732	Optimizing raingarden performance with smart low-cost sensor networks	HELPING theme 1	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Dr. Carola Marella	University of Brescia	Italy
92	IAHS25_ABS_P6544	Spatio-temporal Assessment of Meteorological Droughts in Central India: Historical Trends and Emerging Patterns	ICSH	Poster	Mr. Ruchir Patidar	National Institute of Hydrology Roorkee	India
93	IAHS25_ABS_O7412	Downscaling of Satellite Soil Moisture for field scale predictions	ICSH	Poster	Mr. Usman Hyder Pato	IIT Bombay	India
94	IAHS25_ABS_O1824	Enhancing Large-Scale Flood Modeling through Satellite Data Integra on: The RESCUE_SAT Project	ICSH	Poster	Dr. Elena Volpi	Roma Tre University	Italy
95	IAHS25_ABS_P5122	Quantum Dots and their Nanocomposites applications for Environmental Applications	HELPING theme 2	Poster with Video-Interview (Poster and 3-minute video interview)	Dr. Vatsala Cilamkoti	IIT Roorkee	India