



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

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



2.2 Oral+ForumOral | Tuesday, October 7

S.No.	Abstract ID	Abstract Title	Theme	Contribution Type	Participant Name	Affiliation	Country
1	IAHS25_ABS_L1659	Interpolation and simulation of precipitation in space and time using a combination of traditional observations and crowdsourced data	ICSH	Plenary Oral (15-minute oral presentation)	Prof. Andras Bardossy	Institute for Modelling Hydraulic and Environmental Systems (IWS) University of Stuttgart	Germany
2	IAHS25_ABS_S3426	Exceptional Flood Events: A Comparison of Spatial Counterfactuals Perfect Storms and Stochastic Simulation Approaches	ICSH	Plenary Oral (15-minute oral presentation)	Prof. Bruno Merz	GFZ Helmholtz Centre for Geosciences	Germany
3	IAHS25_ABS_G7367	Beyond Historical Records: Using Counterfactual Scenarios to Improve Flood Risk Management	ICSH	Plenary Oral (15-minute oral presentation)	Dr. Paul Voit	University of Potsdam	Germany
4	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
5	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
6	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
7	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
8	IAHS25_ABS_J6319	Advancing Flood Forecasting and Early Warning Systems Through Multivariate Frequency Analysis	ICSH	Forum Oral (1-minute flash presentation)	Mr. Ankush Choudhary	IIT Roorkee	India
9	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
10	IAHS25_ABS_W4687	INDEX BASED APPROACH FOR THE ASSESSMENT OF SPATIOTEMPORAL VARIABILITY OF EXTREME CLIMATIC CONDITIONS USING GCMs FOR THE MAHANADI RIVER BASIN	ICSH	Forum Oral (1-minute flash presentation)	Ms. Manita bishnoi	Indian Institute of Technology	India
11	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
12	IAHS25_ABS_T1759	A framework for the safe-fail design of urban stormwater management infrastructure for flood mitigation under changing climate.	ICSH	Forum Oral (1-minute flash presentation)	Dr. Rohith A N	IIT Delhi	India
13	IAHS25_ABS_H1643	A Comparative Study of Kalman Filters and Machine Learning Models for Predicting Groundwater Levels in Relation to Rainfall	ICSH	Forum Oral (1-minute flash presentation)	Mr. K V Sumith	Sir M. Visvesvaraya Institute of Technology	India
14	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



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15	IAHS25_ABS_N8578	Dynamic Assessment of Delhi's Urban Heat Island Considering the Urban Sprawl Over the Past Two Decades	ICSH	Forum Oral (1-minute flash presentation)	Ms. Aakanksha Agrawal	IIT Roorkee	India
16	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
17	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
18	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
19	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
20	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
21	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
22	IAHS25_ABS_P6944	A Copula-Based Approach for Estimating Temporal Probability of Landslides using Hydrometeorological factors	ICSH	Forum Oral (1-minute flash presentation)	Mrs. SHAMLA D S	TKM College of Engineering	India
23	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