



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

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



1.4 Oral+ForumOral | Monday, October 6

S.No.	Abstract ID	Abstract Title	Theme	Contribution Type	Participant Name	Affiliation	Country
1	IAHS25_ABS_V1321	Stakeholder-driven assessment of watershed management strategies for agriculture and ecological sustainability: A case study in the lower Apalachicola-Chattahoochee-Flint (ACF) River Basin	CANDHY	Plenary Oral (15-minute oral presentation)	Prof. Puneet Srivastava	University of Maryland College Park	United States
2	IAHS25_ABS_H5871	Identifying potential sources of debris flow: Relooking flash floods from a novel perspective	CANDHY	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Arkaprabha Sarkar	National Institute of Disaster Management	India
3	IAHS25_ABS_C9367	Experiences of citizen science and co-creation in soil hydrology and health within the activities of the Italian chapter of the LOESS project	CANDHY	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Dr. Marco Peli	University of Brescia	Italy
4	IAHS25_ABS_S6353	Optimization of Crop Patterns at a Regional Scale Using Metaheuristics Algorithms	HELPING theme 2	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Ankita Kumari	IIT (ISM) Dhanbad	India
5	IAHS25_ABS_S1055	Building resilience to urban floods through nature based solutions	HELPING theme 2	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Dr. Priyanka Jamwal	Ashoka Trust for Research in Ecology and the environment	India
6	IAHS25_ABS_S7763	Hydrological functioning of Oak and Pine forested catchments: Water availability and fluxes	UPH	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Mr. Denzil Daniel	IIT Roorkee	India
7	IAHS25_ABS_D8697	Leveraging Web GIS for a Systematic Review on Applications of InVEST Models in Ecosystem Services and Water Security Management	HELPING theme 2	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Prathibha Prakash	IIT Roorkee	India
8	IAHS25_ABS_N5232	Integrated Climate-Health Analysis: Assessing Public and Occupational Health Impacts of the 2018 Kerala Floods in the Greater Pamba River Basin India	UPH	Forum Oral (1-minute flash presentation)	Mrs. ARATHY NAIR G R	TKM COLLEGE OF ENGINEERING KOLLAM	India
9	IAHS25_ABS_M9540	Impact of reservoir storage on upstream-downstream drought propagation in a semi-arid catchment in India	UPH	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. AJAY GUPTA	Indian Institute of Technology Roorkee & University of Birmingham	India
10	IAHS25_ABS_V9389	Geo-spatial model for real time forecast of extreme flood in the basin of river Mahanadi in the State of Odisha India	UPH	Forum Oral (1-minute flash presentation)	Prof. Vijay Kumar Dwivedi	National Institute of Technology Durgapur	India
11	IAHS25_ABS_D6743	Transforming Indonesia's Water Allocation and Rights Governance: Clarifying Political Actors' Perspectives on Contestations	UPH	Forum Oral (1-minute flash presentation)	Mr. Aditya Riski Taufani	IHE Delft	Netherlands
12	IAHS25_ABS_P1339	HyPeak: A science-policy network to promote sustainable hydropeaking	HELPING theme 2	Forum Oral with Poster (1-minute flash presentation and poster)	Prof. Gabriele Chiogna	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)	Germany
13	IAHS25_ABS_R1001	Harnessing Kalman Filter to Reduce Uncertainties in Evapotranspiration and Achieve Water Budget Closure at Global Scale	UPH	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Shubham Goswami	Indian Institute of Science	India



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S.No.	Abstract ID	Abstract Title	Theme	Contribution Type	Participant Name	Affiliation	Country
14	IAHS25_ABS_W1324	Nonlinear Covariate-based Framework for Non-stationary Flood Frequency Analysis in the Context of Climate Change	UPH	Forum Oral with Poster (1-minute flash presentation and poster)	Prof. Vinnarasi Rajendran	IIT Roorkee	India
15	IAHS25_ABS_F6381	DETECTING CHANGES IN THE ONSET OF MONSOONS IN SRI LANKA	HELPING theme 2	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Dr. Nilupul Gunasekara	General Sir John Kotelawala Defence University	Sri Lanka
16	IAHS25_ABS_W4296	Analysis of clusters of Hydrological Extremes in the Amazon River Basin	UPH	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Mr. Manish Kumar	IHE Delft - Institute for Water Education	India
17	IAHS25_ABS_P5650	Informing the trenches: Rainfall simulation experiments in Himalayas to Hydrologically inform Water Conservation Structure designs	HELPING theme 2	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Dr. Ashvath Singh Kunadi	Aalto University	Finland
18	IAHS25_ABS_Y8571	A Comparative Study of Climate and Drought Resilience in Distinct Indian Catchments	HELPING theme 2	Forum Oral (1-minute flash presentation)	Ms. Akriti Singh	IIT Roorkee	India
19	IAHS25_ABS_I8848	Assumption hunting: To what extent are global irrigation models supported by empirical information?	UPH	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Seth Nathaniel Linga	University of Birmingham	United Kingdom
20	IAHS25_ABS_B9226	Coupling of a Mechanistic Soil Hydrological Model and a Dynamic Vegetation Growth Model	UPH	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Sruthi Surendran	IIT Palakkad	India
21	IAHS25_ABS_T1157	Hydrological compartments in hillslope catchments : A Case Study of Kaddam reservoir catchment	UPH	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. VAMSHI RAJ RAJ MALA	IIT Hyderabad & Irrigation and CAD Department Telangana	India
22	IAHS25_ABS_H1226	Use Artificial Intelligence to Improve Water Demand Forecasting: Bridging Data Models and Uncertainty	HELPING theme 2	Forum Oral (1-minute flash presentation)	Dr. Zhenxing Zhang	University of Illinois at Urbana-Champaign	United States
23	IAHS25_ABS_I9230	Advancing Soil Hydraulic Property Estimation at Spatial Scales Through Data-Driven Approach using Canopy Variables as Proxies	UPH	Forum Oral (1-minute flash presentation)	Ms. Aswathi VK	National Centre for Earth Science Studies	India
24	IAHS25_ABS_Y1032	SW-NE mass-flux heterogeneity linked with runoff subsurface recharge and contamination in the Lower Chambal Basin	UPH	Forum Oral (1-minute flash presentation)	Mr. Faisal Imam Umrani	IGNOU	India
25	IAHS25_ABS_D5763	Climate Change Effects on the Kimani Catchment: Implications for the Usangu Wetland	UPH	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Augustina Clara Alexander	University of Dar es Salaam	Tanzania
26	IAHS25_ABS_I8237	Building Climate Resilience: An Interdisciplinary Approach to Uncertainty Analysis of Extreme Events in South Africa	UPH	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Djanna Koubodana Houteta	Climate System Analysis Group University of Cape Town	South Africa