



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

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



5.2 Poster | Friday, October 10

S.No.	Abstract ID	Abstract Title	Theme	Contribution Type	Participant Name	Affiliation	Country
1	IAHS25_ABS_I2446	Digital mapping of soil degradation from water erosion in the forest-steppe zone of the East European Plain	ICCE	Poster with Video-Interview (Poster and 3-minute video interview)	Dr. Andrey Petrovich Zhidkin	V.V. Dokuchaev Soil Science Institute	Russian Federation
2	IAHS25_ABS_S2195	Multi-tool data set on Northern Eurasian Riverbank Erosion: methodology spatial variations	ICCE	Poster	Prof. Sergey Chalov	Lomonosov Moscow State University	Russian Federation
3	IAHS25_ABS_E2221	Sediment Dynamics across the estuarine reach of the monsoon-dominated Subarnarekha Basin	ICCE	Poster	Mr. Rituparna Acharyya	Faculty of Geographical Sciences Kazimierz Wielki University in Bydgoszcz Poland	Poland
4	IAHS25_ABS_Q1464	Sediment Budget Formation in Permafrost-Affected Siberian Rivers: Ob Yenisey Lena and Kolyma	ICCE	Poster	Mr. Victor Ivanov	Lomonosov Moscow State University	Russian Federation
5	IAHS25_ABS_Y6564	Simplified approaches to estimate rainfall erosivity from coarse temporal resolution precipitation data in the Mediterranean Belt	ICCE	Poster with Video-Interview (Poster and 3-minute video interview)	Prof. Paolo Nasta	University of Naples Federico II	Italy
6	IAHS25_ABS_A1559	Assessing the impact of uncertainty in global soil property datasets on soil erosion predictions.	ICCE	Poster with Video-Interview (Poster and 3-minute video interview)	Dr. Konstantinos X Soulis	Agricultural University of Athens	Greece
7	IAHS25_ABS_R3864	Integrated catchment-scale sediment transport model	ICCE	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Vsevolod Moreido	Water Problems Institute of the Russian Academy of Sciences	Russian Federation
8	IAHS25_ABS_O8346	A Quantitative Assessment of Riverine Erosional Hazard and Vulnerability in Upper Tapi River India	ICCE	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Resmi S R	National Institute of Technology Calicut	India
9	IAHS25_ABS_Q3727	Hydrological Analysis and Prioritisation of Best Management Practices in the Hirakud Catchment using SWAT and ACPF	ICCE	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Hemant Kumar	IIT Delhi	India
10	IAHS25_ABS_K3412	THE VOLUME OF WATER STORED IN MACKENZIE DELTA LAKES DURING FRESHET FLOWS AND THEIR IMPACT ON SEDIMENT DYNAMICS. CASE STUDY OF BIG LAKE IN INUVIK CANADA.	ICCE	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Damian Cieplowski	Kazimierz Wielki University in Bydgoszcz	Poland
11	IAHS25_ABS_B7402	Enabling large-scale soil erosion assessments: exploring the potential of Earth Observation and Artificial Intelligence	ICCE	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Melissa Latella	CMCC Foundation -- Euro-Mediterranean Center on Climate Change	Italy
12	IAHS25_ABS_Y7772	Evaluating the temporal dynamics of potential soil losses: Idice River Basin (Emilia Romagna Region Northern Italy) case study	ICCE	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Guido Rianna	CMCC Foundation -- Euro-Mediterranean Center on Climate Change	Italy
13	IAHS25_ABS_C8307	Critical Soil Moisture thresholds of plant water stress over India in response to Atmospheric Variability	ICCLAS	Poster	Mr. Anoop Sampelli	National Remote Sensing Centre	India



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14	IAHS25_ABS_P4228	Water Balance From Percolation Scaling and Ecological Optimality	ICCLAS	Poster	Prof. Allen Gerhard Hunt	Wright State University	United States
15	IAHS25_ABS_V9692	Mechanisms of onset termination and propagation of pre-monsoon heatwaves in India	ICCLAS	Poster	Mr. Javid Ahmad Dar	IIT Kanpur	India
16	IAHS25_ABS_E3324	A Novel Network-Based Methodology for Analysis of Atmospheric Rivers	ICCLAS	Poster	Mr. Jitendra Sharma	IIT Bombay	India
17	IAHS25_ABS_G9574	Root zone in the Earth system	ICCLAS	Poster with Video-Interview (Poster and 3-minute video interview)	Prof. Hongkai Gao	East China Normal University	China
18	IAHS25_ABS_C5554	Assessing future changes in hydrological and vegetation resources in the agro-pastoral Sahel	ICCLAS	Poster with Video-Interview (Poster and 3-minute video interview)	Mrs. Lena Collet	IRD	France
19	IAHS25_ABS_N1335	Sub-seasonal to Seasonal Soil Moisture Drought Prediction Using Deep Learning	ICCLAS	Poster	Mr. Saurabh Verma	IIT Bombay	India
20	IAHS25_ABS_D2564	Understanding Hydrological Seasonality in a Himalayan River Basin under Changing Climate	ICCLAS	Poster	Prof. Axel Bronstert	University of Potsdam Institute for Environmental Sciences	Germany
21	IAHS25_ABS_O6025	Diurnal Soil Temperature Range as a Proxy for Representing Hydrological Regimes and Land-Atmosphere Coupling Strength	ICCLAS	Poster	Mr. Sandipan Paul	IIT Bombay	India
22	IAHS25_ABS_X5046	Evaluation of Surface Flux Equilibrium model for evapotranspiration estimation	ICCLAS	Poster	Ms. Ghazar Muzaffar	IIT Kanpur	India
23	IAHS25_ABS_R2807	Influence of Land Use/Land Cover and Climate Change on Hydrological Processes	ICCLAS	Poster	Mrs. VIJAYALAKSHMI SULIAMMAL PONNAMBALAM	Indian Institute of Science	India
24	IAHS25_ABS_R5553	Examining the interplay between Droughts and Floods in India amidst Climate Change	ICCLAS	Poster	Mr. Syed Bilal	IIT Mandi	India
25	IAHS25_ABS_O3739	Towards Identifying the Precursors of Heatwaves in the Indo-Gangetic Plains - Perspective of Land-Atmosphere Interaction	ICCLAS	Poster	Ms. Manali Saha	IIT Bombay	India
26	IAHS25_ABS_I5605	Long Term Variability in Low Level Jet and its Relationship with the Indian Summer Monsoon Rainfall	ICCLAS	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Karthika P P	Sathyabama Institute of Science and Technology	India
27	IAHS25_ABS_G2609	Understanding the Characteristics of Western Disturbances in Changing Climate	ICCLAS	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Spandita Mitra	IIT Roorkee	India
28	IAHS25_ABS_H4559	Exploring Arctic Sea Ice and Indian Summer Monsoon teleconnections using a multiscale approach	ICCLAS	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Sujata Kulkarni	IIT Roorkee	India
29	IAHS25_ABS_T2260	High-Resolution Climate Models Capture Monsoon Rainfall Changes More Accurately in the Ganga-Brahmaputra-Meghna Basin	ICCLAS	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Haider Ali	Newcastle University	United Kingdom
30	IAHS25_ABS_S6155	Impact of Urbanization on Monsoon Rainfall Over Complex Terrain: A Case Study of Doon Valley	ICCLAS	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Sushmita Gouraha	IIT Roorkee	India



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31	IAHS25_ABS_A3871	An analytical approach for quantifying the role of vapor pressure deficit in flash drought evolution	ICCLAS	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Vishal Singh	IIT Kanpur	India
32	IAHS25_ABS_K3636	A global intercomparison and evaluation of flash drought indicators	ICCLAS	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Ivan Noguera Corral	UK Centre for Ecology and Hydrology	United Kingdom
33	IAHS25_ABS_O6857	Understanding the Spatiotemporal Variability of Precipitation Recycling in the Ganga River Basin	ICCLAS	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Sangam Yadav	IIT Hyderabad	India
34	IAHS25_ABS_H7342	Expanding Woody Encroachment - Is it a Concern for Water Yield? Case studies from South Africa under Varying Climates	ICCLAS	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Michele Toucher	South African Environmental Observation Network	South Africa
35	IAHS25_ABS_R3106	Disentangling the effects of aerosols on precipitation under varying meteorological conditions	ICCLAS	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Abhigyan Chakraborty	IIT Hyderabad	India
36	IAHS25_ABS_A8041	Soil Moisture Dynamics under Elevated CO ₂ : Implications for Land-Atmosphere Feedbacks in India	ICCLAS	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Mr. Akash Verma	IIT Bombay	India
37	IAHS25_ABS_Y1882	Atmospheric moisture linkages to flood inducing Multiday extreme precipitation in India	ICCLAS	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Mr. Deepak Pandidurai	IIT Roorkee	India
38	IAHS25_ABS_B6544	Science-based information for adaptation to climate change in rainfed agriculture	ICCLAS	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Prof. Peter Molnar	Institute of Environmental Engineering	Switzerland
39	IAHS25_ABS_H5798	Controlling the Atreyee by Impoundment Structures in Bangladesh and India	ICHWF	Poster	Dr. CHALANTIKA LAHA SALUI	RANI BIRLA GIRLS' COLLEGE	India
40	IAHS25_ABS_Y6552	Can satellite data validate socio-hydrology models? Insights from a model application to a large reservoir	ICHWF	Poster	Mr. Mukesh Kumar Dey	IIT Bombay	India
41	IAHS25_ABS_J6586	Quantifying the impact of conjunctive use of groundwater and surface water on baseflow in the command area of a large reservoir	ICHWF	Poster	Mr. Vishwajit Ramesh Jaiswal	IIT Bombay	India
42	IAHS25_ABS_D9172	Tracing unintended consequences of interventions in coupled human-water systems using critical pathway	ICHWF	Poster	Dr. Yi Nan	Tsinghua University	China
43	IAHS25_ABS_D5336	Development of climate catchment and human action-informed model for forecasting seasonal flood probabilities	ICHWF	Poster	Mr. Salvadi Chetan Kumar	Indian Institute of Technology Hyderabad	India
44	IAHS25_ABS_V5358	Understanding Human-Water Interactions and their Health Implications Under Changing Climate	ICHWF	Poster	Mr. Deepak Pandey	IIT Roorkee	India
45	IAHS25_ABS_X3710	Incorporating community knowledge and values within urban river restoration visions	ICHWF	Poster	Dr. James Christopher White	University of Birmingham	United Kingdom



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46	IAHS25_ABS_A3558	Embedding land and water planning practices in context: A diagnostic contribution from sociology	ICHWF	Poster with Video-Interview (Poster and 3-minute video interview)	Prof. Raffaele Vignola	Wageningen University and Research	Netherlands
47	IAHS25_ABS_X9557	Navigating Jordan's Water Resources Futures: Regional Hydrological Modelling Under Socio-Economic Developments and Climate Change	ICHWF	Poster with Video-Interview (Poster and 3-minute video interview)	Dr. Nafn M Amdar	IWMI	Jordan
48	IAHS25_ABS_W6388	Using Agent-Based Modeling to understand changing floodplain dynamics in Indian context	ICHWF	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Apoorva Singh	IIT Delhi	India
49	IAHS25_ABS_X8144	Simulating human-water feedbacks for climate extreme resilience in the Dutch context	ICHWF	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Jose David Henao Casas	Vrije Universiteit Amsterdam	Netherlands
50	IAHS25_ABS_C3245	Deciphering the roles of climate and land-use changes on water resources in India	ICHWF	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Shivansh Tiwary	IIT Bombay	India
51	IAHS25_ABS_R9739	Understanding the Spatial Patterns of Himalayan Ecosystem Services and their Valuations using a Systematic Literature Review and Meta-Analysis	ICHWF	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Prakhar Sharma	IIT Roorkee	India
52	IAHS25_ABS_W7880	UNDERSTANDING THE FAILURE RISK OF DUAL-DAM SYSTEM AND ITS DOWNSTREAM IMPACT: A CASE STUDY OF TUIRIAL RESERVOIR	ICHWF	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. SHIVENDRA JAISWAL	IIT Roorkee	India
53	IAHS25_ABS_H7076	Geospatial Assessment of Cocoa-Driven Nature Loss and Water Consumption in the Pra Basin in Ghana	ICHWF	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Mactar Dembele	International Water Management Institute (IWMI)	Ghana
54	IAHS25_ABS_W7994	Modelling Snow Avalanche Flow Dynamics Using RAMMS: A Case Study of Solang Valley and Alaknanda Basin	ICSIH	Poster	Mr. Rajeev Ranjan	Indian Institute of Technology	India
55	IAHS25_ABS_Y7308	Diminishing glacier melt contribution for summer droughts in an alpine catchment	ICSIH	Poster with Video-Interview (Poster and 3-minute video interview)	Dr. Giacomo Bertoldi	Eurac Research	Italy
56	IAHS25_ABS_F3738	Decadal Changes in Glacier Facies and ELA in the Himalayas: Implications for Regional Hydrology	ICSIH	Poster with Video-Interview (Poster and 3-minute video interview)	Ms. Apoorva Malviya	Indian Institute of Remote Sensing	India
57	IAHS25_ABS_C4700	Aerosol-Driven Changes in Glacial and Polar Ice Melt: A Multi-Scale Analysis Using Remote Sensing and Transport Modeling	ICSIH	Poster with Video-Interview (Poster and 3-minute video interview)	Mr. Satyajit Singh Saini	IIT Roorkee	India
58	IAHS25_ABS_E4449	Energy conservative solutions for coupled heat-mass transport in frozen soils and snow	ICSIH	Poster with Video-Interview (Poster and 3-minute video interview)	Dr. Andrew Ireson	University of Saskatchewan	Canada
59	IAHS25_ABS_Y3553	Geocryological Conditions of Small Mountain Catchment in the Upper Kolyma Highland (Northeastern Asia)	ICSIH	Poster with Video-Interview (Poster and 3-minute video interview)	Dr. Olga Makarieva	St. Petersburg State University	Russian Federation



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60	IAHS25_ABS_A2441	Impact of snow land data assimilation on hydrological processes in Community Land Model version 5 with SWEML	ICSIH	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Jungho Seo	Yonsei University	Republic of Korea
61	IAHS25_ABS_M9227	Arctic Climate Variability and Its Influence on Seasonal Snow Dynamics in the Hindu Kush Himalayas	ICSIH	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Anant Dikshit	IIT Roorkee	India
62	IAHS25_ABS_J6735	GIANT AUFEIS IN THE NORTHEAST OF RUSSIA ACCORDING TO THE HISTOTICAL DATA OF 1958 AND SATELLITE IMAGES OF 1973a€~2021	ICSIH	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Olga Makarieva	St. Petersburg State University	Russian Federation
63	IAHS25_ABS_F8214	Impact of Spring Sea Ice Variability in the Barents-Kara Region on the Indian Summer Monsoon Rainfall	ICSIH	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Divya Sardana	IIT Roorkee	India
64	IAHS25_ABS_U6726	Long-term Snow Cover Dynamics in the Indian North-Western Himalayas using Multi-Sensor Satellite Data	ICSIH	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Ms. Sakshi Tripathi	IIT Roorkee	India
65	IAHS25_ABS_R7668	Seasonal Shifts in Snowpack Dynamics and Their Response to Climate Change in the Swiss Alps	ICSIH	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Ms. Fatemeh Zakeri	University of Lausanne	Switzerland
66	IAHS25_ABS_F9059	Evolving snow drought impacts on the hydrological behavior of headwater catchments in the Andes Cordillera.	ICSIH	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Dr. James McPhee	University of Chile	Chile
67	IAHS25_ABS_S2981	Co-Creating Water Knowledge for Climate Resilience: Understanding Precipitation Shifts and Their Impacts in South Asia and China	ICSIH	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Dr. Dhiraj Pradhananga	Tribhuvan University/The Small Earth Nepal	Nepal
68	IAHS25_ABS_F8533	Drivers of Rising Land Surface Temperature in a Lesser Himalayan Catchment	ICCLAS	Poster	Dr. Pravin Rangrao Patil	National Institute of Hydrology Roorkee	India
69	IAHS25_ABS_A9443	Modeling Hydrological Droughts in Alpine Hydropower-Influenced Basins	ICHWF	Poster	Dr. Diego Avesani	University of Trento	Italy
70	IAHS25_ABS_B7159	Overestimation of evapotranspiration across India if not considering the impact of rising atmospheric CO2	ICCLAS	Poster	Ms. Nandhana Sunil	IIT Palakkad	India
71	IAHS25_ABS_B6736	Hydro-Climatic Impacts of Oak-to-Pine Transition in the West-Central Himalayas: A Multi-Scale Perspective	ICCLAS	Poster	Mr. Jyoti Ranjan Mohanty	National Institute of Science Education and Research Bhubaneswar	India
72	IAHS25_ABS_J4891	Spatio-temporal characteristics of flooding over India and their links to moisture sources	ICCLAS	Poster	Mr. Rajat Choudhary	IIT Delhi	India
73	IAHS25_ABS_T5094	Multi-Decadal Shoreline Dynamics in Chilika Lagoon: Progradation Retreat and Their Drivers	ICCE	Poster	Ms. Sarita Sahoo	IIT Kanpur	India



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74	IAHS25_ABS_L2268	Identification and Mapping of Paleochannels for Water Resource Management	ICHWF	Poster	Dr. Nikhilesh Singh	IIT(BHU) Varanasi	India