



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

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



4.5 Poster | Thursday, October 9

S.No.	Abstract ID	Abstract Title	Theme	Contribution Type	Participant Name	Affiliation	Country
1	IAHS25_ABS_I5603	Role of strike-slip faults in regional groundwater flow systems revealed by a multi-tracer approach	ICT	Poster	Dr. Koichi Sakakibara	Shinshu University	Japan
2	IAHS25_ABS_C1200	Characterization of groundwater in high bedrock mountains: insights from isotopic and chemical tracers	ICT	Forum Oral with Poster (1-minute flash presentation and poster)	Prof. Tianming Huang	Chinese Academy of Sciences	China
3	IAHS25_ABS_W5449	Groundwater and Surface Water Cycle System in the Klang and Langat River Watersheds Malaysia	ICT	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Taiga Suzuki	Universtiy of Tsukuba	Japan
4	IAHS25_ABS_Q1371	Seasonal Variations in Nitrogen Loading Processes in Tropical Land Use at the Langat River Basin Malaysia	ICT	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Mayu Ogiya	Shinshu University	Japan
5	IAHS25_ABS_Y7963	Rainfall-runoff Processes in a Vegetated Alpine Headwater Catchment in Northern Alps Japan	ICT	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Mayu Fujino	University of Tsukuba	Japan
6	IAHS25_ABS_W7960	Sulfur and oxygen isotopes in rivers of Northeastern India: Source partitioning in coal mining areas	ICT	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Mr. Vivek Kumar	North-Eastern Hill University	India
7	IAHS25_ABS_W2445	The role of efficient soil and water monitoring schemes for the design and implementation of agricultural policies protecting the environment and securing farmersâ€™ income.	MOXXI	Poster with Video-Interview (Poster and 3-minute video interview)	Dr. Konstantinos X Soulis	Agricultural University of Athens	Greece
8	IAHS25_ABS_W2941	Automated riverbank monitoring system: Integration of image-based technologies for erosion and discharge assessment	MOXXI	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Laszlo Bertalan	University of Debrecen	Hungary
9	IAHS25_ABS_E8957	Identification of convective precipitation events through lightning data in a Mediterranean area	MOXXI	Forum Oral with Poster (1-minute flash presentation and poster)	Prof. Leonardo Valerio Noto	University of Palermo	Italy
10	IAHS25_ABS_O5325	ADDRESSING DATA GAPS IN COASTAL TIDAL OBSERVATIONS USING A HYBRID GIS AND PHYSICS-INFORMED NEURAL NETWORK	MOXXI	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Anas A	National Institute of Technology Calicut	India
11	IAHS25_ABS_N4907	Facing environmental threats in Mediterranean agro-ecosystems: The contribution of the Alento critical zone observatory.	MOXXI	Forum Oral with Poster (1-minute flash presentation and poster)	Prof. Nunzio Romano	University of Naples Federico II	Italy



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12	IAHS25_ABS_T3651	A Cost-Effective Probe for Monitoring Flux Rates at Sediment-Water Interface	MOXXI	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. P Kedarnath Reddy	Indian Institute of Technology	India
13	IAHS25_ABS_E8266	Enhancing Hydrological Observations for Sustainable Water Management: A Focus on ISMN	MOXXI	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Tunde Olarinoye	International Centre for Water Resources and Global Change	Germany
14	IAHS25_ABS_N3286	Demystifying Water Logging and Groundwater Recharge in Marathwada: Hydrologic Impact Evaluation of Recharge Pits	MOXXI	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Mr. Lakshmikantha N R	WELL Labs	India
15	IAHS25_ABS_F9936	Development of runoff generation models in the former USSR and Russia: a historical overview	HH	Poster	Prof. Alexander Gelfan	Lomonosov Moscow State University	Russian Federation
16	IAHS25_ABS_F3281	Hydro-history of Lebanon from antiquity to modern times	HH	Poster	Dr. Mohammad Merheb	Institut Agro Rennes Angers	France
17	IAHS25_ABS_D8802	Bringing out the logical error in the development of kinematic wave equation	HH	Forum Oral with Poster (1-minute flash presentation and poster)	Prof. Muthiah Perumal	IIT Roorkee	India
18	IAHS25_ABS_U6573	Modelling of Groundwater Aquifer under MAR	ICGW	Poster	Mr. Vedant Jha	IIT Roorkee	India
19	IAHS25_ABS_P8789	Water from Everest: Using a Mixed-methods Approach to Understand Alternative Potable Water Groundwater Zones and Resource Management Techniques Using Indigenous Knowledge	ICGW	Poster	Ms. Chasalin T Cobb	Ball State University	United States
20	IAHS25_ABS_V5259	Fluoride Mobilization in Groundwater: Role of Lithology and Weathering in Pali District Rajasthan India	ICGW	Poster	Dr. Ajit Kumar Behera	National Institute of Hydrology Roorkee	India
21	IAHS25_ABS_R1659	Fate and transport of pharmaceuticals and personal care products from Delhi NCR surface waters into the subsurface.	ICGW	Poster	Mrs. Smriti Gupta	IIT Roorkee	India
22	IAHS25_ABS_L1923	Prediction of Groundwater Fluoride Contamination Based on Machine Learning Techniques in the Arid Region of Rajasthan	ICGW	Poster	Dr. Sushindra Kumar Gupta	National Institute of Hydrology Roorkee	India
23	IAHS25_ABS_E3050	Sequential Gaussian Mixtures for Transient Hydraulic Tomography Inversion in Fractured Aquifers: A Laboratory Study	ICGW	Poster	Mr. Prem Chand Muraharirao	IIT Hyderabad	India



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24	IAHS25_ABS_X5755	Machine Learning Approaches for Groundwater Forecasting in the Eastern Mitidja Aquifer North Algeria	ICGW	Poster with Video-Interview (Poster and 3-minute video interview)	Ms. Fatima Kastali	The National School of Hydraulics (ENSH)	Algeria
25	IAHS25_ABS_D5594	Large-scale landslides influenced by saline water plume intrusion - An example of the Okimi landslide in Central Japan	ICGW	Poster	Dr. Naoki Watanabe	Niigata Univerdity	Japan
26	IAHS25_ABS_B6830	Design of a cost-effective pressure plate apparatus for measuring pressure-saturation relationship in a range of plant-available soil moisture	ICGW	Poster	Mr. ADHITYA C U	IIT KANPUR	India
27	IAHS25_ABS_X3223	Comprehending Managed Aquifer Recharge (MAR) dynamics using high resolution hydro-geophysical methods in granitic terrain Southern India	ICGW	Poster	Mr. Sagar Phadnis	CSIR-National Geophysical Research Institute, Hyderabad	India
28	IAHS25_ABS_R3619	Groundwater Quality Assessment Using MCDM Models in Nadia West Bengal	ICGW	Poster	Mr. Samparka Sengupta	Adamas University	India
29	IAHS25_ABS_D5229	Impact of model selection on groundwater level time series modelling for drought monitoring	ICGW	Poster	Dr. Jose David Henao Casas	Vrije Universiteit Amsterdam	Netherlands
30	IAHS25_ABS_H9153	Rapid Land Use Changes Driving Groundwater Dynamics in Tropical Coastal Regions: Hydrochemical and Remote Sensing Insights	ICGW	Poster	Mrs. Ananya Muduli	IIT Roorkee	India
31	IAHS25_ABS_A1413	Trace metal anomalies in groundwater of hard aquifer of Northern Odisha: Sources Governance and its health impacts	ICGW	Poster	Ms. GARGI SINGH	Ravenshaw university	India
32	IAHS25_ABS_E4665	Hydrochemical characteristics of groundwaters by multivariate analysis the from Takisaka Landslide Japan	ICGW	Poster	Ms. Rika Kiyose	Niigata University	Japan
33	IAHS25_ABS_T3348	Unveiling the Drivers of Groundwater Resilience: Hydrogeology and Aridity	ICGW	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Akhil J	IIT Delhi	India
34	IAHS25_ABS_P4217	Assessing Data-Based Global Groundwater Use for Irrigation in CLM5: Hotspots and Sustainability Implications	ICGW	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. MANAS RANJAN PANDA	YONSEI UNIVERSITY	Republic of Korea
35	IAHS25_ABS_K4680	Prediction of Nitrate Concentration throughout California USA using Machine Learning Model	ICGW	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. ANISHA DAS	IIT ROPAR	India



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S.No.	Abstract ID	Abstract Title	Theme	Contribution Type	Participant Name	Affiliation	Country
36	IAHS25_ABS_C9672	Estimation of aquifer recharge of the semi-arid Konya Closed Basin in TÃ¼rkiye under climate change	ICGW	Forum Oral with Poster (1-minute flash presentation and poster)	Prof. Nadim Kamel Coptý	Bogazici University	Turkey
37	IAHS25_ABS_A4116	Assessment of hydrogeochemical characteristics and seawater Intrusion using geostatistical techniques: A case study from Eastern Coastal Aquifer Odisha India	ICGW	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Smruti Pragyan Parija	Ravenshaw University	India
38	IAHS25_ABS_Y7252	MACHINE LEARNING-BASED PREDICTION OF GROUNDWATER SALINIZATION ACROSS INDIAN STATES	ICGW	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Ankita Manekar	IIT Kharagpur	India
39	IAHS25_ABS_B8698	An integrated approach to determine the groundwater recharge in the coastal regions of North-eastern Odisha India	ICGW	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Subhashree Biswal	Ravenshaw University Cuttack	India
40	IAHS25_ABS_W9319	ASSESSING POTENTIAL OF CROP SWITCHING TO CHECK GROUNDWATER DEPLETION IN NORTH-WEST INDIA	ICGW	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Divyam Garg	IIT Roorkee	India
41	IAHS25_ABS_U3229	Spring Water Mass Quantification Through End Members mixing Employing Biogeochemical Tracers in Southern Western Ghats Kerala India	ICGW	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Utpal Majee	National Centre for Earth Science Studies	India
42	IAHS25_ABS_L3156	Spatiotemporally Non-Stationary Evolution of Groundwater Levels in Poyang Lake Basin Driven by Meteorological and Hydrological Factors	ICGW	Forum Oral with Poster (1-minute flash presentation and poster)	Prof. Chengpeng Lu	Hohai Univerisity	China
43	IAHS25_ABS_A4544	Groundwater remediation through engineered injection-extraction systems: The effect of random perturbations on mixing enhancement	ICGW	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Carla Feistner	GeoZenrum Nordbayern	Germany
44	IAHS25_ABS_R1662	Health Risk Assessment and Contaminant Monitoring of Groundwater in the Khetri Copper Mining Region	ICGW	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Bhavya Swami	IIT Roorkee	India
45	IAHS25_ABS_G6145	Effects of groundwater transient boundary conditions generated by anthropogenic factors on mixing enhancement: Laboratory and model-based evidence	ICGW	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Francesca Ziliotto	Technical University of Munich (TUM)	Germany
46	IAHS25_ABS_A5325	Assessment of Groundwater Dynamics in Agro-Climatic Zone of Eastern India using Data-driven approaches	ICGW	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Gaurav Dumoga	IIT Bombay	India



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47	IAHS25_ABS_J5422	Groundwater Storage Estimation in Uttar Pradesh by GRACE/GRACE-FO using Geospatial technology and Google Earth Engine	ICGW	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Mr. SWARNIM MAURYA	University of Allahabad	India
48	IAHS25_ABS_A2730	Chlorinated solvents in UK Groundwater: A Data-Driven Analysis of Long-Term Trends and Occurrence Prediction	ICGW	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Ms. Nouha Samlani	Teesside University	United Kingdom
49	IAHS25_ABS_F4054	Water Vapour Isotopes and controlling factors at Roorkee Uttarakhand India	ICT	Poster with Video-Interview (Poster and 3-minute video interview)	Dr. Gopal Krishan	National Institute of Hydrology Roorkee	India
50	IAHS25_ABS_B9048	Groundwater Age Distribution and Isotopic Characteristics in the Arid Kachchh Region Western India	ICT	Poster	Dr. Amit Pandey	National Institute of Hydrology	India
51	IAHS25_ABS_S9210	Assessing Coastal Groundwater Vulnerability Using the DPASTIC Model: A GIS-Based Modification of DRASTIC in Tropical Coastal Regions	ICGW	Poster	Mrs. Ananya Muduli	IIT Roorkee	India
52	IAHS25_ABS_N2414	Microplastic concentrations in groundwater - A worldwide assessment	ICGW	Poster	Dr. Uwe Schneidewind	University of Birmingham	United Kingdom
53	IAHS25_ABS_B6465	Leveraging water quality data to reduce uncertainty in mountain aquifer modeling	ICGW	Poster	Dr. Mariaines Di Dato	University of Trento	Italy
54	IAHS25_ABS_V9967	SAdAadaDAAD	ICGW	Poster	Dr. Debashish Goswami	SDC	India
55	IAHS25_ABS_B9214	Emerging trends in terrestrial water storage of the global key hotspot regions	ICGW	Poster	Mr. Roniki Anjaneyulu	IIT Roorkee	India
56	IAHS25_ABS_R3528	Temporal stability of soil moisture for a revegetation desert area China	MOXXI	Poster	Dr. Xinping Wang	Northwest Institute of Eco-Environment and Resources Chinese Academy of Sciences	China
57	IAHS25_ABS_T5538	Wildfire mapping in dry deciduous forests of southern West Bengal and measurement of soil physicochemical changes for Forest Beat-level management	MOXXI	Poster	Mr. Kunal Mallick	Presidency University Kolkata	India
58	IAHS25_ABS_F5601	Assessing the Porous-media clogging by Micro-plastics contaminated filtrate media	ICGW	Poster	Ms. Anjali Bhagwat	NIH Roorkee	India



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59	IAHS25_ABS_K8040	Quantifying geogenic and anthropogenic contribution to groundwater pollution using APCS-MLR receptor model	ICGW	Poster	Mr. Darshan Malviya	IIT Roorkee	India
60	IAHS25_ABS_Q7023	A DPSIR approach to arsenic and other geogenic contaminants in global groundwater	ICGW	Poster	Dr. Poulomee Coomar	National Centre for Earth Sciences Studies Trivandrum	India
61	IAHS25_ABS_P7560	Identifying Groundwater Storage Potential Zonation in an Arid Cratonic Region	ICGW	Poster	Mr. Ravi Shankar Dubey	IIT Roorkee	India
62	IAHS25_ABS_I8431	Spatio-Temporal Variation of Groundwater Isotopes and Monsoonal Recharge Studies associated with extreme climatic events in Chalakudy Basin Southern Western Ghats India	ICGW	Poster	Ms. Resmi R	National Centre For Earth Science Studies	India
63	IAHS25_ABS_X5498	Curating water resources knowledge in Lebanon: a path to support Water Security	ICWRS	Poster	Dr. Mohammad Merheb	Institut Agro Rennes Angers	France
64	IAHS25_ABS_P9340	Evaluation of the Empirical Area Reduction Method for Singur and Raiwada Reservoirs of India	ICWRS	Poster	Dr. UMESH KUMAR SINGH	National Institute of Hydrology Roorkee	India
65	IAHS25_ABS_T8483	The opportunities and risks of water resource development and intensifying agriculture across Australia's northern rangelands	ICWRS	Poster with Video-Interview (Poster and 3-minute video interview)	Dr. Cuan Petheram	CSIRO	Australia
66	IAHS25_ABS_F8290	Future-Ready Water Systems: Science-Based Approaches for Climate Resilience and Sustainable Development	ICWRS	Poster with Video-Interview (Poster and 3-minute video interview)	Dr. Giriraj Amarnath	International Water Management Institute (IWMI)	Sri Lanka
67	IAHS25_ABS_A8673	Exploring the Impacts of Hydropeaking on Riverine Ecosystems in India	ICWRS	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Anushruti Kukreja	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)	Germany
68	IAHS25_ABS_U2566	Enhancing Drought Resilience Through Interconnected Reservoir Systems A Case Study of Sardinia's Flumendosa Basin	ICWRS	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Avijit Majhi	University of Cagliari	Italy
69	IAHS25_ABS_K8409	Improving farm-scale decision making on blue-green water management practices in the Vidarbha region of Maharashtra	ICWRS	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Ruth Linnaea Cahill	Faculty of Civil Engineering & Geosciences of Delft University of Technology	Netherlands
70	IAHS25_ABS_D5072	An Ensemble Flood Forecasting System for India	ICWRS	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Priyam Deka	IIT Delhi	India



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71	IAHS25_ABS_I1068	Forest Fire Dynamics in Himachal Pradesh: Spatiotemporal Patterns and Driving Factors (2000-2024)	ICWRS	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Nisha Jindwal	IIT Mandi	India
72	IAHS25_ABS_W6265	Progress on artificial eco-environmental water supplement in recent 20 years in China	ICWRS	Forum Oral with Poster (1-minute flash presentation and poster)	Prof. Chunfeng Hao	China Institute of Water Resources and Hydropower Research	China
73	IAHS25_ABS_A6676	Seamless short to long term forecasting of inflow into lake Baikal: development and online assessment	ICWRS	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Vsevolod Moreido	Water Problems Insitute of the Russian Academy of Sciences	Russian Federation
74	IAHS25_ABS_V9616	From Climate Shifts to Flood Changes: Data Based and Modelling Approaches	ICWRS	Forum Oral with Poster (1-minute flash presentation and poster)	Prof. Alberto Viglione	Politecnico di Torino	Italy
75	IAHS25_ABS_Q8057	Extreme floods and droughts in the Gambia River Basin at Gouloumbou : Impacts of climate change and the resilience of ecosystems and populations	ICWRS	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. MENDY Anastasie	Universite Cheikh Anta Diop de Dakar	Senegal
76	IAHS25_ABS_F9692	Optimization of operational cycle for energy maximization in pumped storage hydropower plants	ICWRS	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Pattabiraman Balasundaram	IIT Roorkee	India
77	IAHS25_ABS_X8966	Effect of different nitrogen treatments on chlorophyll content and yield of wheat crop	ICWRS	Forum Oral with Poster (1-minute flash presentation and poster)	Ms. Apoorva Yadav	Shiv Nadar University	India
78	IAHS25_ABS_H6526	On the need for capturing historical trend of crop yield in crop models for efficient estimation of crop water use	ICWRS	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Aniruddha Saha	IIT Roorkee	India
79	IAHS25_ABS_B7888	Complex governance finance and natural resource considerations on 'going off grid' for Rhodes University South Africa	ICWRS	Forum Oral with Poster (1-minute flash presentation and poster)	Dr. Jane Louise Tanner	Rhodes University	South Africa
80	IAHS25_ABS_I7541	Clustering Catchments by Low Flow Behavior: An Unsupervised Learning Approach	ICWRS	Forum Oral with Poster (1-minute flash presentation and poster)	Mr. Nishant Saxena	IIT Roorkee	India
81	IAHS25_ABS_C1620	Adapting Water Resource Management to Climate Change in the Alpine Region of South Tyrol Italy	ICWRS	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Dr. Giacomo Bertoldi	Eurac Research	Italy



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82	IAHS25_ABS_T7213	An Open-Source Tool for Generating Hourly Synthetic Streamflow Series in Ungauged Basins Using Regional Flow-Duration Curves	ICWRS	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Mr. Alan Spadoni	University of Bologna	Italy
83	IAHS25_ABS_W4151	Climate change and water resources capacity development in Africa under the SASSCAL and WASCAL doctoral programmes	ICWRS	Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview)	Dr. Luna Bharati	International Center for Water Resources and Global Change	Germany
84	IAHS25_ABS_Q8375	Multi-Scale Drought Analysis and Forecasting in the Western Ghats: A Case Study of the Kallada River Basin Kerala	ICWRS	Poster	Ms. Drisiya J	IIT Palakkad	India
85	IAHS25_ABS_M5248	Comparative Analysis of Machine Learning Models for Crop Water Requirement Prediction	ICWRS	Poster	Ms. Mrunalini Dinkar Humbare	Kelappaji College of Agricultural Engineering & Food Technology Tavanur Kerala Agricultural University Thrissur Kerala	India
86	IAHS25_ABS_D4038	Decoding Drought in North Brabant Netherlands: A spatially distributed analysis of drought types and their transition	ICWRS	Poster	Prof. Reynold Chow	Wageningen University	Netherlands