



# XII<sup>th</sup> Scientific Assembly of the International Association of Hydrological Sciences (IAHS 2025)

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



## 1.2 Oral+ForumOral | Monday, October 6

| S.No. | Abstract ID      | Abstract Title  | Theme | Contribution Type   | Participant Name           | Affiliation                               | Country       |
|-------|------------------|---|-------|---|----------------------------|---|---------------|
| 1     | IAHS25_ABS_G6750 | Unleashing the Power of Emerging Datasets for More Reliable Hydrologic Models   | ICRS  | Plenary Oral (15-minute oral presentation)                      | Prof. Latif Kalin          | Auburn University                         | United States |
| 2     | IAHS25_ABS_X3911 | Investigating lower-than-expected urban flood peaks through field investigation remote sensing and machine learning   | ICRS  | Plenary Oral (15-minute oral presentation)                      | Dr. Ione Loots             | University of Pretoria                    | South Africa  |
| 3     | IAHS25_ABS_T5935 | A study of hydrological extremes from space   | ICRS  | Plenary Oral (15-minute oral presentation)                      | Prof. Venkataraman Lakshmi | University of Virginia                    | United States |
| 4     | IAHS25_ABS_R6168 | The Application and Assessment of Satellite based remotely sensed Rainfall Data in the ACRU Hydrological Model: Case study in selected catchments in South Africa | ICRS  | Forum Oral with Poster (1-minute flash presentation and poster) | Ms. Kershani Chetty        | University of KwaZulu-Natal               | South Africa  |
| 5     | IAHS25_ABS_T1360 | Seasonal Variations in Water Resources Vegetation Health and Turbidity along the Yamuna River Mathura: A Geospatial Analysis                                      | ICRS  | Forum Oral (1-minute flash presentation)                        | Dr. Dharmendra Kumar Singh | SANSKRITI UNIVERSITY                      | India         |
| 6     | IAHS25_ABS_B4822 | Land Use Land Cover Classification of an Urban Watershed Using Machine Learning Algorithms  | ICRS  | Forum Oral (1-minute flash presentation)                        | Mr. Mohammad Imran Shaik   | NIT Andhra Pradesh                        | India         |
| 7     | IAHS25_ABS_Q6020 | Utility of contextual remote sensing models for mapping evapotranspiration over large areas   | ICRS  | Forum Oral with Poster (1-minute flash presentation and poster) | Prof. Eswar Rajasekaran    | IIT Bombay                                | India         |
| 8     | IAHS25_ABS_M2037 | Burnt Area Mapping and Greenhouse Gases Emissions Monitoring in Agricultural Landscape  | ICRS  | Forum Oral with Poster (1-minute flash presentation and poster) | Mr. Ayush Kumar            | IIT Roorkee                               | India         |
| 9     | IAHS25_ABS_N7823 | GPU accelerated GUI for flood mapping from SAR data   | ICRS  | Forum Oral (1-minute flash presentation)                        | Mr. Niradesh Kumar Sharma  | IIT Delhi                                 | India         |
| 10    | IAHS25_ABS_O4714 | Water Extent and Water Level Dynamics of a Tropical Large Hydropower Reservoir for Sustainable Water Management   | ICRS  | Forum Oral with Poster (1-minute flash presentation and poster) | Ms. Archita Mallick        | IIT Roorkee                               | India         |
| 11    | IAHS25_ABS_E5891 | A rapid assessment of Water Hyacinth mapping in India   | ICRS  | Forum Oral with Poster (1-minute flash presentation and poster) | Mr. Arpan Dawn             | National Institute of Technology Durgapur | India         |



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|-------|------------------|--|-------|--|-------------------------------------|---|---------------|
| 12    | IAHS25_ABS_M3582 | Recent progress and future opportunities in monitoring evapotranspiration from High Resolution Thermal InfraRed Remote Sensing in the context of the TRISHNA LSTM and SBG satellite missions | ICRS  | Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview) | Dr. Gilles Boulet                   | CESBIO (Univ Toulouse 3 Paul Sabatier Univ Toulouse CNES/IRD/CNRS/INRA E) and IFCWS Indian Institute of Science | India         |
| 13    | IAHS25_ABS_L4587 | Detection of Flood Areas Using SENTINEL Radar Imagery in Urban Environments for Strengthening Flood Early Warning Systems in Abidjan.  | ICRS  | Forum Oral (1-minute flash presentation)   | Mr. Adou Adou Kouassi Dore Berenger | Université Felix-Houphouët-Boigny /Université de Montpellier  | Cote d'Ivoire |
| 14    | IAHS25_ABS_M5620 | Remote Sensing for Efficient Irrigation: Monitoring Reservoirs with Sentinel Data  | ICRS  | Forum Oral (1-minute flash presentation)   | Mr. Federico Campos                 | Universidad Tecnologica del Uruguay (UTEC)  | Uruguay       |
| 15    | IAHS25_ABS_C1713 | Unveiling Methane Concentration Patterns over Wastewater Treatment Plants in Indian Cities Using NDCI and Sentinel-5P TROPOMI Data (2019-2024)   | ICRS  | Forum Oral with Poster and Video-Interview (1-minute flash presentation poster and 3-minute video interview) | Mr. Ravi Kant                       | IIT Roorkee   | India         |
| 16    | IAHS25_ABS_H2436 | Soil Loss Estimation of watershed in eastern Himalayan region of Sikkim.   | ICRS  | Forum Oral with Poster (1-minute flash presentation and poster)  | Mr. Ankit Verma                     | Acharya Narendra Deva University of agriculture and technology Ayodhya UP                                       | India         |
| 17    | IAHS25_ABS_M6997 | Monitoring of wheat crop and its phenology pattern using UAV Multispectral data  | ICRS  | Forum Oral with Poster (1-minute flash presentation and poster)  | Mr. Adwait ADWAIT                   | Shiv Nadar Institute of Eminence  | India         |
| 18    | IAHS25_ABS_Y7268 | Multi-Hazard Disaster Risk Assessment Using Google Earth Engine: An Integrated Approach for Climate Resilience   | ICRS  | Forum Oral (1-minute flash presentation)   | Ms. Jahanvi Bhagora                 | Nirma University  | India         |
| 19    | IAHS25_ABS_M2786 | GIS-Integrated Hydro-Geo mechanical Framework for Predicting Soil Piping-Induced Subsidence in Lateritic Terrains  | ICRS  | Forum Oral (1-minute flash presentation)   | Ms. SHRUTHI JOHNSON                 | College of Engineering Trivandrum   | India         |
| 20    | IAHS25_ABS_Q3486 | Flood Extent Delineation: Combining Unconventional Remote Sensing and Geospatial Technology with HAND Hydrogeomorphic Approach   | ICRS  | Forum Oral with Poster (1-minute flash presentation and poster)  | Mr. Rajeev Ranjan                   | IIT Delhi   | India         |
| 21    | IAHS25_ABS_X6613 | A change in the peak timing of Indian summer monsoon rainfall due to a shifting climate: observational evidence  | ICRS  | Forum Oral (1-minute flash presentation)   | Dr. KANDULA V SUBRAHMANYAM          | National Remote Sensing Centre (NRSC) ISRO  | India         |



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| 22    | IAHS25_ABS_C5422 | Identifying groundwater drought risks in major agricultural regions of China: A combined perspective of GRACE- and groundbased observations and modeling | ICRS  | Forum Oral (1-minute flash presentation)                        | Prof. Yanjun Shen    | Institute of Genetics and Developmental Biology, Chinese Academy of Sciences | China        |
| 23    | IAHS25_ABS_G4872 | Mapping and assessing the impacts of crop-weed competition in neglected and underutilized crops  | ICRS  | Forum Oral with Poster (1-minute flash presentation and poster) | Dr. Maqsooda Mahomed | University of KwaZulu-Natal  | South Africa |