EGU General Assembly 2025

Hydrological Sciences | 27 April – 2 May 2025

Monday 28 April

Oral sessions

Room	8:30-10:15	10:45-12:30	14:00-15:45	16:15-18:00
3.16/17	HS5.1.5	HS5.1.5	HS2.3.1	HS5.1.5
3.29/30	HS2.3.3	HS2.3.3	HS7.2	HS7.2
B	HS8.2.3	HS8.2.3	HS8.2.4	HS8.2.4
C			HS2.2.1	HS2.2.1
2.15		HS6.1	HS8.2.10	HS2.4.5
2.17	HS7.8	HS3.1	HS1.2.6	HS7.7
2.23				
2.31	HS6.10	HS6.10	HS10.7	HS6.10
2.44	HS2.2.4	HS8.2.2	HS10.2	HS10.1

Pico sessions

Room	8:30-10:15	10:45-12:30	14:00-15:45	16:15-18:00
Hall A	HS2.4.7	HS2.4.7	HS5-HS8 vp	HS2.1.6
Hall X4				

Posters — Hall A

8:30-10:15	10:45-12:30	14:00-15:45	16:15-18:00
HS8.2.2	HS1.2.6	HS1.1.3	HS1.2.3
HS8.2.10	HS2.2.4	HS1.2.2	HS2.3.1
HS10.1	HS7.7	HS1.3.3	HS2.3.3
HS10.2	HS7.8	HS2.4.5	HS3.1
	HS10.7	HS6.10	HS7.5

Tuesday 29 April

Oral sessions

Room	8:30-10:15	10:45-12:30	14:00-15:45	16:15-18:00
3.16/17	HS2.3.1	HS2.3.3	HS2.1.2	HS2.1.2
3.29/30	HS9.4	HS9.4	HS7.5	HS7.5
B	HS2.2.1	HS8.2.4	HS8.2.3	HS8.2.3
C			HS2.4.3	HS2.4.3
2.15	HS6.8	HS6.1		
2.17				
2.23	HS5.4.1	HS5.4.1		
2.31	HS4.8	HS10.6	HS2.3.4	HS2.3.5
2.44	HS10.1	HS10.10	HS1.3.4	HS8.3.5

HS Division Meeting (Room B)

Pico sessions

Room	8:30-10:15	10:45-12:30	14:00-15:45	16:15-18:00
Hall A	HS2.4.7	HS2.1.6	HS3-HS4 vp	HS2.4.4
Hall X4	HS7.4	HS7.1		HS9.6

Posters — Hall A

8:30-10:15	10:45-12:30	14:00-15:45	16:15-18:00
HS7.2	HS1.3.4	HS1.3.1	HS2.3.4
HS8.2.3	HS2.2.1	HS6.1	HS3.3
HS8.2.4	HS4.8	HS8.3.5	HS4.5
HS10.10	HS5.1.5	HS9.4	HS5.4.1
	HS6.8		HS8.3.2

Wednesday 30 April

Oral sessions

Room	8:30-10:15	10:45-12:30	14:00-15:45	16:15-18:00
3.16/17	HS3.3	HS3.3	HS2.5.2	HS2.5.1
3.29/30	HS9.2	HS9.2	HS5.3.1	HS2.1.3
B	HS2.4.1	HS2.4.1	HS3.4	HS3.4
C	HS2.1.1	HS2.1.1	HS1.1.1	HS4.2
2.15	HS1.3.5	HS7.6	HS4.5	HS4.6
2.17				
2.23				
2.31	HS4.7	HS3.8	HS3.7	HS8.3.1
2.44	HS2.2.2	HS8.2.6	HS8.1.7	HS8.2.8

Pico sessions

Room	8:30-10:15	10:45-12:30	14:00-15:45	16:15-18:00
Hall A	HS2.4.4	HS7.3		HS1.2.1
Hall X4	HS2.5.3	HS4.4		HS7.9

Posters — Hall A

8:30-10:15	10:45-12:30	14:00-15:45	16:15-18:00
HS2.3.5	HS2.2.2	HS2.1.1	HS1.3.5
HS2.4.3	HS2.5.1	HS2.1.2	HS4.7
HS7.6	HS2.5.2	HS2.1.3	HS5.3.1
HS8.1.7	HS3.7	HS3.8	HS9.2
	HS8.3.1	HS4.6	HS8.2.6

Thursday 1 May

Oral sessions

Room	8:30-10:15	10:45-12:30	14:00-15:45	16:15-18:00
3.16/17	HS2.5.1	HS10.3	HS10.3	HS5.2.1
3.29/30	HS2.1.3	HS5.3.1	HS5.3.1	HS4.10
B	HS10.4	HS10.4	HS2.4.1	HS2.4.1
C	HS4.2	HS4.2	HS3.6	HS8.2.5
2.15	HS1.1.4	HS2.4.2	HS4.3	HS1.1.6
2.17				
2.23				
2.31	HS5.4.2	HS5.1.4	HS8.3.6	HS6.5
2.44	HS8.1.1	HS8.1.3	HS8.1.2	HS8.1.1

Pico sessions

Room	8:30-10:15	10:45-12:30	14:00-15:45	16:15-18:00
Hall A	HS1.2.1	HS4.11	HS1-7-9-10 vp	HS5.4.4
Hall X4	HS6.9	HS8.3.4		HS5.1.7

Posters — Hall A

8:30-10:15	10:45-12:30	14:00-15:45	16:15-18:00
HS2.4.1	HS1.1.4	HS5.3.2	HS2.4.2
HS3.4	HS1.1.6	HS8.1.3	HS3.6
HS5.1.4	HS6.5	HS8.2.7	HS4.3
HS10.3	HS8.1.1	HS8.2.8	HS8.1.2
	HS8.3.6		

Friday 2 May

Oral sessions

Room	8:30-10:15	10:45-12:30	14:00-15:45	16:15-18:00
3.16/17	HS3.6	HS3.6	HS1.2.4	
3.29/30	HS4.10	HS5.2.1		
B	HS10.4	HS10.4	HS8.2.5	
C	HS8.2.5	HS6.4	HS6.4	
2.15	HS8.2.9	HS8.2.9	HS5.1.1	HS2.3.6
2.17		HS3.5	HS3.2	HS3.5
2.23				
2.31	HS1.1.5	HS5.4.2	HS1.1.5	
2.44	HS2.1.7	HS10.11	HS2.1.7	HS10.11

Pico sessions

Room	8:30-10:15	10:45-12:30	14:00-15:45	16:15-18:00
Hall A	HS6.3	HS2.4.8	HS2-HS6 vp	HS5.3.4
Hall X4	HS5.2.3	HS5.3.3		

Posters — Hall A

8:30-10:15	10:45-12:30	14:00-15:45	16:15-18:00
HS5.2.1	HS1.1.5	HS3.5	HS2.1.7
HS5.4.2	HS1.2.4	HS4.2	HS3.2
HS6.4	HS2.3.6	HS4.10	HS5.1.1
HS10.11	HS8.2.5	HS10.4	HS8.2.9

Sub-Groups

Code	Name
HS1	General Hydrology
HS2	Catchment Hydrology
HS3	Hydroinformatics
HS4	Hydrological forecasting
HS5	Water policy, management and control
HS6	Remote sensing and data assimilation
HS7	Precipitation and climate
HS8	Subsurface hydrology
HS9	Erosion, sedimentation & river processes
HS10	Ecohydrology and limnology

* The Henry Darcy and John Dalton Medal Lectures will be given by Jan Seibert and Paolo D'Odorico on Tuesday and Thursday evening, 19:00-20:00, in Room B

* The ECS award lecture will be given by Frederik Kratzert on Thursday, 14:00-14:45, in Room C

Sub-programme group meetings

- HS2: room 2.32 on Thursday 1 May, 12:45-13:45
- HS4: room 2.33 on Wednesday 30 April, 12:45-13:45
- HS6: room 2.32 on Tuesday 29 April, 18:00-19:00
- HS7: room 2.32 on Wednesday 30 April, 18:00-19:00
- HS9: room 2.32 on Thursday 1 May, 9:15-10:15
- HS10: room 2.32 on Wednesday 30 April, 12:45-13:45

EGU General Assembly 2025

Hydrological Sciences | 27 April – 2 May 2025

HS1.1 Water and Health
- HS1.1.1 Multifaced discussion on water and human health cl
- HS1.1.3 Advancing understanding and management of PFAS
- HS1.1.4 Fate and transport processes of pathogens and eme
- HS1.1.5 (Small-scale) transport processes of plastics in th
- HS1.1.6 Micro and nanoplastic fate and transport in soil an

HS1.2 Innovative sensors and monitoring in hydrolog
- HS1.2.1 Innovative Technologies and Approaches in Hydrolo
- HS1.2.2 The MacGyver session for innovative and/or self ma
- HS1.2.3 Climate change research: new insights from lysimet
- HS1.2.4 Advances in river monitoring and modelling, includi
- HS1.2.6 The Surface Water and Ocean Topography (SWOT) M

HS1.3 Cross-cutting hydrological sessions
- HS1.3.1 History of Hydrology
- HS1.3.3 Looking for resilience at building scale: Nature-base
- HS1.3.4 Revisiting good modelling practices and open workf
- HS1.3.5 Hydrology under climate change: case studies on wa

HS2.1 Catchment hydrology in diverse climates and e
- HS2.1.1 Snow and glacier hydrology
- HS2.1.2 Mountain hydrology under global change: monitorin
- HS2.1.3 Improving Measurement, Understanding, and Predi
- HS2.1.6 Advances in African hydrology and climate: monitor
- HS2.1.7 Water balance and integrated water management in

HS2.2 From observations to concepts to models (in ca
- HS2.2.1 Advancing process representation for hydrological r
- HS2.2.2 Isotope and tracer methods: flow paths characteriz
- HS2.2.4 The invisible controls of catchment hydrology: stora

HS2.3 Water quality at the catchment scale
- HS2.3.1 Mechanisms of water quality dynamics at the catchm
- HS2.3.3 Water quality at the catchment scale: measuring and
- HS2.3.4 Water quality and clean water availability modeling
- HS2.3.5 Water quality at the catchment scale: measuring, mo
- HS2.3.6 Large-scale plastic transport and accumulation proc

HS2.4 Hydrologic variability and change at multiple sc
- HS2.4.1 Hydrological extremes: from droughts to floods
- HS2.4.2 Space-time dynamics of flood risk: processes, contro
- HS2.4.3 Understanding, Predicting, and Modelling Hydrolog
- HS2.4.4 Influence of Land Use/Land Cover Transitions on Hy
- HS2.4.5 Forest Water Dynamics across Spatial and Temporal S
- HS2.4.7 Large-sample hydrology: advances in dataset devel
- HS2.4.8 Harness Cutting-Edge Technologies in Catchment Hyd

HS2.5 Global and (sub)continental hydrology
- HS2.5.1 Large-scale hydrology
- HS2.5.2 Large-scale groundwater
- HS2.5.3 Recent advancements in estimating global, continer

HS3 Hydroinformatics
- HS3.1 Advances in stochastic analysis, modelling, simulation
- HS3.2 Advanced Geostatistical Methods and Uncertainty Anal
- HS3.3 Explainable and hybrid machine learning in hydrology
- HS3.4 Deep learning in hydrology
- HS3.5 Innovative Approaches in Hydroinformatics and Stakeh
- HS3.6 Hydroinformatics: data analytics, machine learning, hyb
- HS3.7 Digital solutions for hydrological processes observat
- HS3.8 Advances in Model Inference, Diagnostics, Sensitivity

HS4 Hydrological forecasting
- HS4.2 Drought and water scarcity: monitoring, modelling and
- HS4.3 Probabilistic hydro-meteorological forecasts: ensembles
- HS4.4 Operational forecasting and warning systems for flood,
- HS4.5 Novel monitoring and impact-based forecasting approa
- HS4.6 Sub-seasonal predictions to climate projections of wat
- HS4.7 Advances in flood forecasting and warning systems
- HS4.8 Real-time flood forecasting and early warning systems:
- HS4.10 Recent advances in (hybrid) hydrological forecasting u
- HS4.11 Hydrological forecasting in urban and regulated catchm

HS5.1 Water Resources Policy and Management unde
- HS5.1.1 Water resources policy and management – System sol
- HS5.1.4 Fate of Water Reservoirs: Global Change Implications
- HS5.1.5 From Water Sharing to Water Scarcity: Managing Deple
- HS5.1.7 Decision Making Under Deep Uncertainty for Planning

HS5.2 Human-Water Systems
- HS5.2.1 Coupled human water systems: advances in hydro-soci
- HS5.2.3 Human-Water Feedbacks

HS5.3 Water-Energy-Food-Ecosystem Nexus
- HS5.3.1 Water resources policy and management - balancing th
- HS5.3.2 Bridging agricultural and hydrological systems under c
- HS5.3.3 Land and Water Interactions: Evaluating the Impac
- HS5.3.4 Innovation in Hydropower Operations and Planning

HS5.4 Urban Water Management
- HS5.4.1 Green Infrastructure and Nature-based Solutions for
- HS5.4.2 Urban Watersheds and Urban Water Challenges
- HS5.4.4 Digital water and interconnected urban infrastructure

HS6 Remote sensing and data assimilation
- HS6.1 Remote sensing of soil moisture
- HS6.3 Remote Sensing of Seasonal Snow
- HS6.4 Water Level, Extent, Storage and Discharge from Remo
- HS6.5 Remote Sensing for Flood Dynamics Monitoring and M
- HS6.8 Advancing Water Cycle Analysis and Irrigation estimat
- HS6.9 Innovative technologies using remote sensing data for
- HS6.10 The Third Pole Environment (TPE) under Global Chang

HS7 Precipitation and climate
- HS7.1 Precipitation variability from drop scale to catchment
- HS7.2 Precipitation modelling: uncertainty, variability, and do
- HS7.3 Water, Climate, Food and Health
- HS7.4 Future hydroclimatic scenarios in a changing world
- HS7.5 Hydro-meteorological Extremes and Hazards: Vulnerab
- HS7.6 Precipitation and urban hydrology
- HS7.7 Advances in estimation of hydrometeorologic extremes
- HS7.8 Spatio-temporal extremes in the hydroclimatic system:
- HS7.9 The atmospheric water cycle under change: feedbacks,

HS8.1 Subsurface hydrology – Transport in the Subsur
- HS8.1.1 Occurrence, fate and remediation of natural and engine
- HS8.1.2 Reactive transport, mineral dissolution and precipitatio
- HS8.1.3 Flow, transport, mixing, and reaction in heterogeneous
- HS8.1.7 Contaminant transport in groundwater and remediation:

HS8.2 Subsurface hydrology – Groundwater
- HS8.2.2 Physics-Based Modelling of Groundwater Flow and Sol
- HS8.2.3 The role of groundwater flow systems in enhancing sus
- HS8.2.4 Data-driven groundwater modelling: methods, applicati
- HS8.2.5 Advances in Integrative Assessment for Sustainable
- HS8.2.6 Hydrogeophysics: a tool for hydro(geo)logy, contaminar
- HS8.2.7 Safeguarding Groundwater and Subsurface Water: Nav
- HS8.2.8 Global Perspectives on Critical Zone Science: Groundw
- HS8.2.9 Multiscale characterization of structure, flow and tran
- HS8.2.10 Groundwater residence times and flow paths

HS8.3 Subsurface hydrology – Vadose zone hydrology
- HS8.3.1 Vadose Zone Hydrology: Advances and Future Perspe
- HS8.3.2 Advancing the monitoring, maintenance and utilization
- HS8.3.4 Soil hydrology and irrigation for sustainable food produ
- HS8.3.5 Soil-Plant Interactions
- HS8.3.6 Hydrological processes and contaminants transport in

HS9 Erosion, sedimentation & river processes
- HS9.2 Hydro-morphological processes in open water systems
- HS9.4 Human-Environment Interactions shaping sediment tra
- HS9.6 Transfer of sediments and contaminants in catchments

HS10 Ecohydrology and Limnology
- HS10.1 General Ecohydrology
- HS10.2 Forest Ecohydrology
- HS10.3 Peatland hydrology: From tropical to subarctic latitudes
- HS10.4 Lakes and inland seas in the changing environment
- HS10.6 Groundwater-surface water interactions: physical, biog
- HS10.7 Bridging Hydrology, Biogeochemistry, and Ecology in
- HS10.10 Stable isotopes to study water and nutrient dynamics i
- HS10.11 Estimating evapotranspiration from in-situ and remote