

## **Hydrological Sciences | 23–28 April 2023**

	Monday 24 April				
Oral sessions:	8:30-10:15	10:45-12:30	12:45-13:45	14:00-15:45	16:15-18:00
3.16/17	HS10.2	HS10.2		HS1.1.1	HS6.12
3.29/30	HS3.1	HS3.1		HS3.1	HS3.3
В	HS2.3.4	HS2.3.4		HS2.3.4	HS2.3.1
C					
2.15	HS8.2.1	HS8.2.1		HS8.2.4	HS8.1.1
2.17		HS2.4.6		HS2.1.5	HS2.4.1
2.31	HS2.1.1	HS2.1.4		HS4.3	HS4.3
2.44	HS7.2	HS7.2		HS7.5	HS7.5
Pico sessions:	8:30-10:15	10:45-12:30		14:00-15:45	16:15-18:00
4 - X4	HS6.6	HS6.6		HS6.9	HS9.2
3b - X3					
Posters:	8:30-10:15	10:45-12:30		14:00-15:45	16:15-18:00
	HS1.2.1	HS2.1.1		HS2.4.1	HS1.2.1
Hall A		HS2.1.5		HS2.4.6	HS2.1.4
vHall HS		HS4.3		HS8.1.1	HS2.3.4
VITAII FIS		HS6.12		HS10.2	HS8.2.1
		HS7.5		HS7.2	HS8.2.4

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	Tuesday 25 April			
8:30-10:15	10:45-12:30	12:45-13:45	14:00-15:45	16:15-18:00
HS10.1	HS10.1		HS10.1	HS8.3.1
HS3.5	HS3.3		HS3.3	HS6.11
HS2.3.1	HS2.3.1		HS8.2.6	HS8.2.6
HS5.1	HS5.3	(B c	HS2.5.1	HS2.5.1
HS4.7	HS4.8	(Room	HS5.11	HS4.6
HS8.1.5	HS8.1.5		HS7.6	HS7.10
HS9.3	HS9.3	ing	HS9.1	HS2.1.6
8:30-10:15	10:45-12:30	Business Meeting	14:00-15:45	16:15-18:00
HS1.1.3	HS1.1.3	2 55	HS1.1.3	HS1.3.2
		ine	HS2.3.5	HS2.5.4
8:30-10:15	10:45-12:30	Bus	14:00-15:45	16:15-18:00
HS3.1	HS2.5.1	HS	HS4.6	HS2.3.1
HS3.3	HS3.5		HS4.7	HS5.1
	HS7.6		HS4.8	HS5.3
	HS7.10		HS8.1.5	HS5.11
			HS9.3	HS10.1

Wednesday 26 April				
8:30-10:15	10:45-12:30	12:45-13:45	14:00-15:45	16:15-18:00
HS8.3.1	HS8.3.1		HS6.4	HS6.4
HS6.11	HS6.11		HS5.7	HS5.7
HS8.2.6	HS8.2.6		HS4.2	HS4.2
		-		HS2.2.7
HS3.4	HS1.2.2		HS2.4.3	HS1.3.1
HS5.12	HS5.9		HS8.2.9	HS8.2.9
HS2.1.6	HS2.3.3		HS2.1.7	HS2.1.7
8:30-10:15	10:45-12:30		14:00-15:45	16:15-18:00
HS2.5.2	HS2.5.2		HS7.9	HS7.9
8:30-10:15	10:45-12:30		14:00-15:45	16:15-18:00
HS2.4.3	HS2.1.6		HS1.2.2	HS5.9
HS9.1	HS2.1.7		HS1.3.1	HS5.12
	HS3.4		HS2.2.7	HS8.2.6
	HS8.2.9		HS2.3.3	HS8.3.1
		·	HS6.11	

## Subdivisions:

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, wetlands and estuaries

<sup>\*</sup> The Henry Darcy and John Dalton Medal Lectures will be on Tuesday and Thursday evening, 19:00-20:00, in Room B

	Thursday 27 April			pril	
Oral sessions:	8:30-10:15	10:45-12:30	12:45-13:45	14:00-15:45	16:15-18:00
3.16/17	HS6.3	HS8.3.2		HS8.3.2	HS8.3.2
3.29/30	HS5.5	HS5.5		HS5.5	HS6.7
В	HS4.2	HS4.2		HS2.4.4	HS2.4.4
C	HS2.2.7	HS2.2.7			
2.15	HS2.4.2	HS2.4.2		HS10.7	HS10.7
2.17					
2.31	HS10.3	HS10.10		HS8.1.3	HS8.1.8
2.44	HS2.3.2	HS2.3.2		HS5.16	HS5.16
Pico sessions:	8:30-10:15	10:45-12:30		14:00-15:45	16:15-18:00
4 - X4	HS7.1	HS7.1		HS7.3	HS7.3
3b - X3	HS2.1.2	HS2.1.8			
Posters:	8:30-10:15	10:45-12:30		14:00-15:45	16:15-18:00
	HS6.4	HS5.16		HS2.3.2	HS5.5
Hall A	HS8.3.2	HS6.3		HS2.4.2	HS5.6
vHall HS	HS8.3.4	HS8.1.3		HS4.2	HS5.7
VHall H3		HS8.1.8		HS6.7	HS10.3
					HS10.10

Friday 28 April					
8:30-10:15	10:45-12:30	12:45-13:45	14:00-15:45	16:15-18:00	
HS8.3.4	HS8.1.9		HS8.1.9	HS8.1.9	
HS3.8	HS6.1		HS6.1	HS6.1	
HS2.4.4	HS2.4.4		HS2.2.5	HS2.2.5	
HS5.14	HS8.2.3		HS8.2.3	HS2.3.6	
HS10.4	HS10.8		HS10.9	HS10.9	
HS2.2.1	HS2.2.1		HS7.7	HS7.8	
8:30-10:15	10:45-12:30		14:00-15:45	16:15-18:00	
HS7.4	HS4.1		HS4.4	HS4.5	
				HS1.1.4	
8:30-10:15	10:45-12:30		14:00-15:45	16:15-18:00	
HS6.1	HS2.2.5		HS2.2.1		
HS7.7	HS3.8		HS2.3.6		
HS7.8	HS5.14		HS2.4.4		
HS8.1.9	HS10.7		HS10.4		
HS8.2.3	HS10.9		HS10.8		

<sup>\*</sup> The ECS award lecture will be on Thursday, 14:00-14:30, in Room 2.44



## Hydrological Sciences | 23–28 April 2023

HS1.1	Hydrological Sciences for Policy and Society		
HS1.1.1	The Science-policy interface in hydrology		
HS1.1.3	Panta Rhei: Hydrology, Society & Environ	HS3	Hydroinformat
HS1.1.4	Elevating practice in the science-policy-pract	HS3.1	Hydroinformat
HS1.2	Innovative sensors and monitoring	HS3.3	Deep Learning
HS1.2.1	The MacGyver session for innovative	HS3.4	Advanced geos
HS1.2.2	Advances in river monitoring and modelling	HS3.5	Advances in Di
HS1.3	Cross-cutting hydrological sessions	HS3.8	Hydroinformat
HS1.3.1	Revisiting good modelling practices	HS4	Hydrological fo
HS1.3.2	Bridging physical, analytical, information	HS4.1	Anticipation of
HS2.1	Catchment hydrology in diverse climates	HS4.2	Drought and w
HS2.1.1	Changes in the Mediterranean hydrology	HS4.3	Probabilistic hy
HS2.1.2	Advances in African hydrology and climate	HS4.4	Operational fo
HS2.1.4	Hydrology, hydrometeorology and climate	HS4.5	Reducing the i
HS2.1.5	Advances in forest hydrology	HS4.6	From sub-seas
HS2.1.6	Mountain hydrology under global change	HS4.7	Recent advanc
HS2.1.7	From snow and glacier hydrology to	HS4.8	Real-time urba
HS2.1.8	Large-sample hydrology: characterizing	HS5	Water policy, r
HS2.2	From observations to concepts to models	HS5.1	Water resourc
HS2.2.1	Advancing process representation for	HS5.3	Strategies for a
HS2.2.5	Role of subsurface runoff, soil moisture	HS5.5	Water resourc
HS2.2.7	Isotope and tracer methods: flow paths	HS5.6	Innovation in F
HS2.3	Water quality at the catchment scale	HS5.7	Multi-scale wa
HS2.3.1	Water quality at the catchment scale	HS5.9	Impacts of land
HS2.3.2	Fate and transport processes of pathogens	HS5.11	Coupled huma
HS2.3.3	Water quality in the soil-groundwater-river	HS5.12	Water resourc
HS2.3.4	Plastic in freshwater environments	HS5.14	Green infrastru
HS2.3.5	Multi-fidelity techniques to improve	HS5.16	Groundwater r
HS2.3.6	Impacts of climate change on water quality	HS6	Remote sensin
HS2.4	Hydrologic variability and change at multiple	HS6.1	Remote Sensin
HS2.4.1	Understanding the links between	HS6.3	Remote Sensin
HS2.4.2	Understanding, identifying, and modelling	HS6.4	Water Level, S
HS2.4.3	Space-time dynamics of floods	HS6.6	Remote Sensin
HS2.4.4	Hydrological extremes	HS6.7	Irrigation estin
HS2.4.6	Approaches and management perspectives	HS6.9	Innovative tecl
HS2.5	Global and (sub)continental hydrology	HS6.11	The Third Pole
HS2.5.1	Large-scale hydrology	HS6.12	Synthesising R
HS2.5.2	Recent advancement in estimating global,		_
HS2.5.4	From observations to action		
	<del>-</del>		

	HS7	Precipitation and climate
	HS7.1	Precipitation variability from drop scale to
Hydroinformatics	HS7.2	Precipitation modelling: uncertainty,
Hydroinformatics: data analytics, machine	HS7.3	Water, climate, food and health
Deep Learning in Hydrology	HS7.4	Steps towards future hydroclimatic scenarios
Advanced geostatistics, clustering and	HS7.5	Hydro-meteorological Extremes and Hazards
Advances in Diagnostics, Inversion,	HS7.6	Precipitation and urban hydrology
Hydroinformatics for prognostics	HS7.7	Hydrometeorologic stochastics
Hydrological forecasting	HS7.8	Spatial extremes in the hydro- and atmosphere
Anticipation of flash floods and rainfall	HS7.9	The atmospheric water cycle under change
Drought and water scarcity	HS7.10	Trends and Variations in Hydroclimatic
Probabilistic hydro-meteorological forecasts	HS8.1	Subsurface hydrology – General sessions
Operational forecasting and warning	HS8.1.1	Consequences of anthropogenic activities,
Reducing the impacts of natural hazards	HS8.1.3	Emerging contaminants and PFAS in soil
From sub-seasonal forecasting to climate	HS8.1.5	Flow, reactive transport and dissolution/
Recent advances in the hydrologic and	HS8.1.8	Hydrogeophysics: a tool for hydro(geo)logy
Real-time urban flood forecasting	HS8.1.9	Sustainable Groundwater Management
Water policy, management and control	HS8.2	Subsurface hydrology – Groundwater
Water resources policy and management	HS8.2.1	Innovative methods and new advances
Strategies for allocations of scarce water	HS8.2.3	The role of groundwater flow systems
Water resources policy and management	HS8.2.4	Toward a better comprehension of karst
Innovation in Hydropower Operations	HS8.2.6	Integrating understanding across the land
Multi-scale water-energy-food-environment	HS8.2.9	Data-driven groundwater modeling
Impacts of land use and land cover changes	HS8.3	Subsurface hydrology – Vadose zone
Coupled human water systems	HS8.3.1	Vadose zone hydrology: advances
Water resources policy and management	HS8.3.2	Soil-Plant Interactions
Green infrastructure for sustainable urban	HS8.3.4	Flow and transport in the vadose zone
Groundwater monitoring, data analysis	HS9	Erosion, sedimentation & river processes
Remote sensing and data assimilation	HS9.1	Techniques for quantifying the sources
Remote Sensing of Soil Moisture	HS9.2	Transfer of sediments and contaminants
Remote Sensing for Flood Dynamics	HS9.3	Hydro-morphological processes in open
Water Level, Storage and Discharge	HS10	Ecohydrology, wetlands and estuaries
Remote Sensing of Seasonal Snow	HS10.1	General ecohydrology
Irrigation estimates and management	HS10.2	Estimating evapotranspiration using in-situ
Innovative technologies using remote	HS10.3	Vegetation and canopies: Effects on erosion
The Third Pole Environment (TPE)	HS10.4	Stable isotopes to study water and nutrient
Synthesising Remotely Sensed and In-Situ	HS10.7	Peatland hydrology: From tropical to subarctic
-	HS10.8	Groundwater-surface water interactions
	HS10.9	Lakes and inland seas in a changing environment
	HS10.10	Modeling and Design of Natural and