

## PROGRAMME GROUP SCHEDULE

### HS – HYDROLOGICAL SCIENCES

**O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)**

**TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00**

Session	Title	TB	MO	TU	WE	TH	FR
HS1	Strategies to community building in hydrology (invited papers only) (co-listed in US)	1		O (28 (B))			
		2		O (28 (B))			
		3		O (28 (B))			
		4					
		5					
HS2	Remote sensing retrieval techniques and data assimilation	1	O (28 (B))				
		2	O (28 (B))				
		3					
		4	P (A)				
		5					
HS3	Space observations and field experiments	1					
		2					
		3	O (31)				
		4	P (A)				
		5					
HS4	Water storage, level and discharge from remote sensing and geodesy (co-listed in G & GI)	1					
		2					
		3					
		4	O (31)	P (A)			
		5					
HS6	Operational applications of remote sensing in water resources management and hydrology	1					
		2					
		3					
		4		O (30 (C))	P (A)		
		5					
HS7	Subsurface flow, solute transport, and energy processes: concepts, modelling, and observations	1					
		2					P (A)
		3				O (28 (B))	
		4				O (28 (B))	
		5					
HS8	Subsurface assessment and characterisation of flow, transport, and fate using physical, chemical, and isotopic tools (co-listed in IG)	1	O (30 (C))				
		2	O (30 (C))				
		3	O (30 (C))				
		4	P (A)				
		5					
HS9	Hydrogeophysics in subsurface hydrology	1				O (28 (B))	
		2				O (28 (B))	
		3					
		4				P (A)	
		5					
HS10	Urban impacts on soils and groundwater (co-listed in SSS)	1					
		2				O (31)	
		3					
		4				P (A)	
		5					
HS11	Fissured and karstified aquifers (co-listed in IG)	1					
		2					
		3		O (31)			
		4		P (A)			
		5					
HS12	Geothermal energy and brine transport	1					
		2					
		3					
		4			O (31)	P (A)	
		5					
HS13	Application of optical technologies in surface and groundwater systems	1					
		2					
		3					
		4					
		5					
HS14	Groundwater stochastic hydrology	1		O (31)			
		2					
		3					
		4			P (A)		
		5					

Session	Title	TB	MO	TU	WE	TH	FR
HS15	Colloids, microorganisms and coupled hydrological, biological and chemical processes in the unsaturated zone	1 2 3 4 5			O (31) P (A)		
HS16	Coupled hydrological, biological and chemical processes in the unsaturated zone	1 2 3 4 5					
HS17	Unsaturated zone flow and transport processes: from science to soil and water management	1 2 3 4 5		O (31) P (A)			
HS18	Persistent organic pollutants in soils: sources, sinks, and processing	1 2 3 4 5			O (31) P (A)		
HS19	Monitoring and modelling for soil and ecohydrological processes across landscape elements	1 2 3 4 5				P (A) O (28 (B)) O (28 (B))	
HS20	Technological potential for assessing soil erosion and sediment transport in ungauged river basins	1 2 3 4 5	O (31) P (A)				
HS21	Harmonisation and standardisation of transboundary sediment activities	1 2 3 4 5					
HS22	River and stream temperature: dynamics, processes, models and implications	1 2 3 4 5		O (31) P (A)			
HS23	Hydrological, chemical and biological processes in rivers and riparian zones (co-listed in BG & GM)	1 2 3 4 5			O (30 (C)) O (30 (C)) O (30 (C))	P (A)	
HS24	Sediment tracing and risk assessment for sediment management	1 2 3 4 5	O (31) P (A)				
HS25	Lakes and inland seas under anthropogenic impact and climate change (co-listed in CL & ERE)	1 2 3 4 5			O (30 (C)) O (30 (C)) P (A)		
HS27	Open session on catchment modelling and process analysis	1 2 3 4 5		O (28 (B)) O (28 (B)) O (28 (B)) P (A)			
HS28	Catchment structure and connectivity (co-listed in GM, BG & SSS)	1 2 3 4 5			O (31) O (31)	P (A)	
HS29	Objective and process-based catchment classification as a tool for predictions in ungauged basins	1 2 3 4 5			O (31) O (31) P (A)		
HS30	Experimental river basins	1 2 3 4 5				O (30 (C)) O (30 (C)) P (A)	

Session	Title	TB	MO	TU	WE	TH	FR
HS31	Coupled modelling and observation of terrestrial and atmospheric water fluxes across multiple spatial and temporal scales	1 2 3 4 5					
HS32	Climate-soil and vegetation interactions in ecological-hydrological processes (co-listed in AS, CL, NP & SSS)	1 2 3 4 5					O (28 (B)) O (28 (B)) P (A)
HS33	Monitoring network design and new instrumentation in hydrology	1 2 3 4 5					O (28 (B)) O (28 (B)) P (A)
HS34	Calibration, data assimilation, and uncertainty estimation of spatially distributed and integrated catchment models	1 2 3 4 5					P (A) O (30 (C)) O (30 (C))
HS37	Sustainable catchment management: assessing water quality on the catchment scale	1 2 3 4 5					O (28 (B)) P (A)
HS36	Hydrological extremes: controls, spatial & temporal variability and regional patterns	1 2 3 4 5					P (A) O (30 (C)) O (30 (C))
HS38	Anthropogenic impacts on transitional environments (co-listed in CL & ERE)	1 2 3 4 5					
HS39	Stochastic-dynamic modelling of precipitation (co-listed in NP & AS)	1 2 3 4 5					O (31) P (A)
HS40	Novel techniques for measuring rainfall micro- and macro-structure (co-listed in AS & NH)	1 2 3 4 5					O (31) P (A)
HS41	Statistical concepts in understanding and modelling hydro-climatic change (co-listed in NP, CL and AS)	1 2 3 4 5					O (31) P (A)
HS42	Integrated water resources assessment, with special focus on developing countries	1 2 3 4 5					O (30 (C)) P (A)
HS43	Instruments for integrated and transboundary water resources management	1 2 3 4 5					P (A) O (28 (B))
HS44	Middle East water – towards equitable and sustainable management	1 2 3 4 5					
HS45	Modelling and observation of hydrological and biological processes in West Africa (co-listed in BG)	1 2 3 4 5					P (A) O (31)
HS46	Hydroinformatics: computational intelligence and technological developments in water science applications (co-listed in NH & GI)	1 2 3 4 5					O (30 (C)) O (30 (C)) O (30 (C)) P (A)

Session	Title	TB	MO	TU	WE	TH	FR
HS48	Connectivity: conditions for the transfer of water, sediment and organisms on hillslopes and in channelways (co-listed in GM)	1 2 3 4 5					
HS49	Dryland hydrology	1 2 3 4 O (30 (C)) 5	P (A)				
NH2.04	Risk assessments of complex flood situations (co-listed in HS)	1 2 3 4 5				P (XY)	
NH2.05	Integrated Natural Hazard Protection (floods and mass movement): Structural and nonstructural measures – state-of-the-art (co-listed in HS)	1 2 3 4 5			O (18)	O (18)	P (XY)
NH8.03	Natural and anthropogenic hazards in karst areas (co-listed in GM & HS)	1 2 P (XY) 3 O (16 (L)) 4 O (16 (L)) 5 O (16 (L))					
SSS11	Hydropedology: A synergistic tool to shape EU guidelines for water and soil (co-listed in HS)	1 2 3 4 O (33) 5 P (A)				O (33)	P (A)
SSS10	3D Visualization and Quantification of Soil Pore Geometries (co-listed in HS)	1 2 O (33) 3 4 5 P (A)					
SSS12	Transport in preferential flow domains of the soil porous system: Measuring, interpretation, models, upscaling (co-listed in HS)	1 2 3 O (33) 4 O (33) 5 P (A)					
SSS14	Improving spatial predictions of soil erosion (co-listed in HS & GM)	1 2 3 O (33) 4 5 P (A)					
SSS15	Soil erosion assessment and integrated approaches for remediation (co-listed in HS & GM)	1 2 3 4 O (33) 5 P (A)					
GI1	Open session on Geoscience Instrumentation (co-listed in GMPV, G, HS, MPRG, NH, OS & SM)	1 2 3 O (2) 4 O (2) 5 O (2)	P (XY)				
GI10	Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH)	1 2 3 O (29) 4 O (29) 5 O (29)				O (29)	O (29)
GM6	Large Rivers - how does our small river theory scale upwards? (co-listed in HS)	1 2 3 4 5					
GM5	Bedrock Channel Morphology and Dynamics (co-listed in HS)	1 2 3 4 5					
CR90	Mountain Hydrology and Climatology: present state and future scenarios (co-listed in HS)	1 2 3 O (29) 4 P (A) 5					

Session	Title	TB	MO	TU	WE	TH	FR
CR100	Remote sensing of snow cover and sea ice (co-listed in HS)	1 2 3 4 5		O (29)			
BG3.03	Fluvial networks and biogeochemistry (co-listed in HS)	1 2 3 4 5		P (A)			
AS1.03	Observation, Prediction and Verification of Precipitation (General Session) (co-listed in HS)	1 2 3 4 5			O (10 (E1)) O (10 (E1))		
CL38/ GI12	Earth System Modelling: Strategies and Software (co-organized by GI, co-listed in AS, HS & OS)	1 2 3 4 5		O (14) P (XY)	O (10 (E1)) O (10 (E1))		
CL19/ CL14	Climatic Extremes and their Impacts (co-listed in HS & ERE) / Mid-latitude cyclones: processes, variability, changes and impacts	1 2 3 4 5				O (13 (F1)) O (13 (F1)) O (13 (F1)) P (XY)	
CL22/ CL35	Land-atmosphere coupling in past, present and future climate (co-listed in AS, BG & HS) / Subsurface temperature signals of climate change, processes involved, and importance to climate modeling	1 2 3 4 5		O (25) O (25) P (XY)			
NP5.05	Ensemble prediction in hydrology (HEPEX) (co-listed in HS & NH)	1 2 3 4 5			O (24) P (XY)		
NH2.03	Uncertainty and non stationarity in flood risk predictions (co-listed in HS)	1 2 3 4 5					P (XY)
NH2.02	Operational tools for flash-flood forecasting (co-listed in HS)	1 2 3 4 5			O (18)		P (XY)
NH2.01	Flood Hazards: Historical Documentation, Reconstruction, Perception and Modern Risk Management (co-listed in HS)	1 2 3 4 5					
NP6.07	Turbulence and dispersion in particle-laden geophysical flows: theory and models (co-listed in HS & SSP)	1 2 3 4 5				O (22) P (XY)	
NP3.08	Scales and scaling in surface and subsurface hydrology (co-listed in HS)	1 2 3 4 5		P (XY) O (27) O (27)			