

HS – Hydrological Sciences – Orals

Monday, 28 April

MO1 , 08:30–10:00	HS1.1 , Panta Rhei: a vision and an agenda for the next 10 years of hydrological research in support of society, 08:30–12:00, Room R6
	HS2.3.8 , Catchment Organisation and Similarity, 08:30–12:00, Room R13
	HS2.4.3 , Monitoring Strategies: temporal trends in groundwater and surface water quality and quantity, 08:30–12:00, Room R11
	HS7.8 , Precipitation and urban hydrology, 08:30–10:00, Room R4
	HS8.2.1 , Groundwater resources in a changing environment, 08:30–12:00, Room R1
	HS10.2 , Lakes and inland seas in a changing environment, 08:30–10:00, Room R8
	SSS10.10/HS8.3.20 , Irrigated Agriculture: Natural Resources Management for the Sustainability of the Ecosystem Maintaining Productivity (co-organized), 08:30–15:15, Room B9
MO2 , 10:30–12:00	HS1.1 , Panta Rhei: a vision and an agenda for the next 10 years of hydrological research in support of society, 08:30–12:00, Room R6
	HS2.3.8 , Catchment Organisation and Similarity, 08:30–12:00, Room R13
	HS2.4.3 , Monitoring Strategies: temporal trends in groundwater and surface water quality and quantity, 08:30–12:00, Room R11
	HS7.5/NP8.3 , Hydroclimatic stochasticity (co-organized), 10:30–12:00, Room R4
	HS8.2.1 , Groundwater resources in a changing environment, 08:30–12:00, Room R1
	HS10.7/BG2.16 , Redistribution of rain in vegetation: Patterns, processes, and interactions at the soil-atmosphere interface (co-organized), 10:30–12:00, Room R8
	PSD9.9 , SSS7.4/HS8.3.14 - Soil water repellency in a changing climate: occurrence and interactions with extreme meteorological and hydrological events, 10:30–11:15, Room B4
	SSS2.5/GM6.10/HS8.3.7/SSP3.1.20 , The behaviour of soils, sediments and water within the 3D landscape: The use and mis-use of modelling and other approaches. (co-organized), 10:30–12:15, Room B8
MO3 , 13:30–15:00	SSS10.10/HS8.3.20 , Irrigated Agriculture: Natural Resources Management for the Sustainability of the Ecosystem Maintaining Productivity (co-organized), 08:30–15:15, Room B9
	HS2.3.2 , Multiscale hydrology: using large data sets and combining bottom-up and top-down modelling approaches to improve process understanding, 13:30–17:00, Room R13
	HS2.4.4 , Large scale hydrology, 13:30–15:00, Room R11
	HS6.5 , The Third Pole Environment - Observation and modelling of hydrometeorological processes in high elevation areas, 13:30–15:00, Room R4
	HS7.1/AS1.9/NH1.12/NP3.9 , Precipitation: from measurement to modelling and application in catchment hydrology (co-organized), 13:30–17:00, Room R6
	HS8.2.3 , Stochastic groundwater hydrology, 13:30–17:00, Room R1

MO4 , 15:30–17:00	HS10.1/GM8.4 , Estuarine processes (co-organized), 13:30–17:00, Room R8
	PSD21.7 , HS7.8 - Precipitation and urban hydrology, 13:30–14:15, Room R7
	SSS7.4/HS8.3.14 , Soil water repellency in a changing climate: occurrence and interactions with extreme meteorological and hydrological events (co-organized), 13:30–17:15, Room B8
	SSS10.10/HS8.3.20 , Irrigated Agriculture: Natural Resources Management for the Sustainability of the Ecosystem Maintaining Productivity (co-organized), 08:30–15:15, Room B9
	HS2.3.2 , Multiscale hydrology: using large data sets and combining bottom-up and top-down modelling approaches to improve process understanding, 13:30–17:00, Room R13
	HS2.4.7 , Decadal flood risk changes: from detection to attribution, 15:30–16:45, Room R11
	HS6.7 , Remote sensing of soil moisture, 15:30–17:00, Room R4
	HS7.1/AS1.9/NH1.12/NP3.9 , Precipitation: from measurement to modelling and application in catchment hydrology (co-organized), 13:30–17:00, Room R6
	HS8.2.3 , Stochastic groundwater hydrology, 13:30–17:00, Room R1
	HS10.1/GM8.4 , Estuarine processes (co-organized), 13:30–17:00, Room R8
Tuesday, 29 April	
TU1 , 08:30–10:00	CR2.2 , Glacier Monitoring from In-situ and Remotely Sensed Observations (co-listed), 08:30–12:00, Room Y11
	HS2.3.6 , Water quality at the catchment scale: measuring and modeling of nutrients, sediment and eutrophication impacts, 08:30–12:00, Room R13
	HS3.1 , Hydroinformatics: computational intelligence, systems analysis, optimisation and geostatistics, 08:30–12:00, Room R11
	HS6.2 , ESA's SMOS and NASA's SMAP missions: providing global observations of soil moisture and ocean salinity and beyond, 08:30–12:00, Room R4
	HS7.1/AS1.9/NH1.12/NP3.9 , Precipitation: from measurement to modelling and application in catchment hydrology (co-organized), 08:30–10:00, Room R6
	HS8.1.2 , Hydrogeophysics: From non-invasive site characterization to improved process understanding, 08:30–10:00, Room R1
	HS9.2/GM7.8/SSS7.20 , Modeling the experiment, experimenting the models: experiment and model to connect geophysical flows from grains to landscapes (co-organized), 08:30–12:00, Room Y1

	HS10.6 , Peatland Hydrology, 08:30–12:00 , Room R8
	PSD21.6 , HS7.4/AS4.21/CL3.8 - Change in climate, hydrology and society, 08:30–09:15 , Room R12
	SC2/HS11.1 , Meet the expert in hydrology - How young scientists can contribute to 'Hydrology in a changing world' (Open Discussion) (co-organized), 08:30–10:00 , Room Y7
	SSS0.4/HS8.3.10 , Spatial and Temporal Patterns in Soil Systems: Monitoring, Modeling and Characterization of Soil Water Contents and coupled biogeochemical properties (co-organized), 08:30–10:15 , Room B6
	SSS0.8/BG9.6/ESS1.10/GI3.10/GM2.5/GMPV60/HS8.3.6/SSP3.1.18/TS9.14 , Platforms, Sensors and Applications with Unmanned Aerial Systems in the geosciences (co-organized), 08:30–12:15 , Room B5
	SSS7.2/GM6.12/HS8.3.8 , Dynamic soil properties for understanding flow and transport in the landscape (co-organized), 08:30–10:00 , Room B8
TU2 , 10:30–12:00	CR2.2 , Glacier Monitoring from In-situ and Remotely Sensed Observations (co-listed), 08:30–12:00 , Room Y11
	GI1.4 , Geoscience processes related to Fukushima nuclear accident (co-listed), 10:30–17:00 , Room B2
	GM7.2 , The Quaternary History of the River Nile (co-listed), 10:30–12:00 , Room G2
	HS2.3.6 , Water quality at the catchment scale: measuring and modeling of nutrients, sediment and eutrophication impacts, 08:30–12:00 , Room R13
	HS3.1 , HydroInformatics: computational intelligence, systems analysis, optimisation and geostatistics, 08:30–12:00 , Room R11
	HS6.2 , ESA's SMOS and NASA's SMAP missions: providing global observations of soil moisture and ocean salinity and beyond, 08:30–12:00 , Room R4
	HS7.4/AS4.21/CL3.8 , Change in climate, hydrology and society (co-organized), 10:30–17:00 , Room R6
	HS9.2/GM7.8/SSS7.20 , Modeling the experiment, experimenting the models: experiment and model to connect geophysical flows from grains to landscapes (co-organized), 08:30–12:00 , Room Y1
	HS10.6 , Peatland Hydrology, 08:30–12:00 , Room R8
	PSD9.8 , SSS7.2/GM6.12/HS8.3.8 - Dynamic soil properties for understanding flow and transport in the landscape, 10:30–11:15 , Room B7
	PSD21.5 , HS6.1 - Open session on remote sensing applications in hydrology and climate studies, 10:30–11:15 , Room R12
	SSS0.8/BG9.6/ESS1.10/GI3.10/GM2.5/GMPV60/HS8.3.6/SSP3.1.18/TS9.14 , Platforms, Sensors and Applications with Unmanned Aerial Systems in the geosciences (co-organized), 08:30–12:15 , Room B5
TU3 , 13:30–15:00	SSS9.12/BG2.18/GM4.7/HS8.3.23 , Coevolution of soils, landforms and vegetation: ecosystem stability thresholds and critical zone observatories (co-organized), 10:30–17:15 , Room B6
	GI1.4 , Geoscience processes related to Fukushima nuclear accident (co-listed), 10:30–17:00 , Room B2
	GM7.3/HS9.9/SSP3.2.2 , Sedimentary source-to-sink fluxes and sediment budgets (co-organized), 13:30–15:00 , Room G2
	HS2.2.2 , Mountain Hydrology: Monitoring and modeling of snow, 13:30–17:00 , Room R4
	HS2.3.5 , Isotope and tracer methods: flow paths characterization, catchment response and transformation processes, 13:30–17:00 , Room R13

	HS6.1 , Open session on remote sensing applications in hydrology and climate studies, 13:30–17:00, Room R1
	HS7.4/AS4.21/CL3.8 , Change in climate, hydrology and society (co-organized), 10:30–17:00, Room R6
	HS8.2.4 , Fissured and karstified aquifers, 13:30–15:00, Room R8
	HS10.3 , General Ecohydrology, 13:30–15:00, Room R11
	PSD21.8 , HS8.1.6/SM5.3/SSP3.2.5/TS2.5 - Fluid processes on different spatiotemporal scales: from colloids to sedimentary basins, 13:30–14:15, Room R5
	PSD21.12 , HS10.4/GM7.13 - Linking river ecology, hydrology, and geomorphology for integrated river management, 13:30–14:15, Room R7
	SSS9.12/BG2.18/GM4.7/HS8.3.23 , Coevolution of soils, landforms and vegetation: ecosystem stability thresholds and critical zone observatories (co-organized), 10:30–17:15, Room B6
TU4 , 15:30–17:00	GI1.4 , Geoscience processes related to Fukushima nuclear accident (co-listed), 10:30–17:00, Room B2
	HS2.2.2 , Mountain Hydrology: Monitoring and modeling of snow, 13:30–17:00, Room R4
	HS2.3.5 , Isotope and tracer methods: flow paths characterization, catchment response and transformation processes, 13:30–17:00, Room R13
	HS6.1 , Open session on remote sensing applications in hydrology and climate studies, 13:30–17:00, Room R1
	HS7.4/AS4.21/CL3.8 , Change in climate, hydrology and society (co-organized), 10:30–17:00, Room R6
	HS8.2.5 , Thermal and mechanical processes and energy storage in porous and fractured aquifers, 15:30–17:00, Room R8
	HS10.4/GM7.13 , Linking river ecology, hydrology, and geomorphology for integrated river management (co-organized), 15:30–17:00, Room R11
	SSS9.12/BG2.18/GM4.7/HS8.3.23 , Coevolution of soils, landforms and vegetation: ecosystem stability thresholds and critical zone observatories (co-organized), 10:30–17:15, Room B6
TU6 , 19:00–20:00	ML18 , John Dalton Medal Lecture by Hoshin V. Gupta (co-listed), 19:00–20:00, Room R1
Wednesday, 30 April	
WE1 , 08:30–10:00	CL6.6/HS7.9 , Improving the representation of climate using high resolution climate and NWP models. (co-organized), 08:30–10:00, Room Y6
	HS2.3.7 , Water quality at the catchment scale: monitoring and modeling of micropollutants, 08:30–12:00, Room R13
	HS2.3.9 , GW-SW interactions: concepts, methods and biogeochemical and ecologic implications, 08:30–15:00, Room R6
	HS2.4.5 , Hydrological change: Regional hydrological behaviour under transient climate and land use conditions, 08:30–12:00, Room R1
	HS6.6 , Flood inundation modelling and mapping from local to global scales and the future SWOT mission, 08:30–10:00, Room R8
	HS7.2/AS1.10/CL3.7/NH1.13/NP3.10 , Precipitation uncertainty and variability: observations, ensemble simulation and downscaling (co-organized), 08:30–12:00, Room R4
	HS10.8 , Environmental and anthropogenic change: adaptation and co-evolution in ecohydrological systems, 08:30–10:00, Room R11
	SC3/HS11.2 , How to write (and publish) a scientific paper in hydrology (co-organized), 08:30–10:00, Room R3

	SSS9.9/GM6.3/HS9.14/SSP3.1.23 , Connectivity in hydrology and sediment dynamics: how do we move forwards? (co-organized), 08:30–12:15, Room B6
WE2 , 10:30–12:00	CL2.14 , Paleoflood dynamics throughout the Holocene (co-listed), 10:30–12:00, Room Y8
	HS2.3.7 , Water quality at the catchment scale: monitoring and modeling of micropollutants, 08:30–12:00, Room R13
	HS2.3.9 , GW-SW interactions: concepts, methods and biogeochemical and ecologic implications, 08:30–15:00, Room R6
	HS2.4.5 , Hydrological change: Regional hydrological behaviour under transient climate and land use conditions, 08:30–12:00, Room R1
	HS4.2 , Hydrological forecasting: Untangling and reducing predictive uncertainty through improved model process description, data assimilation and post-processing, 10:30–12:00, Room R11
	HS6.8 , Assimilation of hydrological remote sensing data, 10:30–12:00, Room R8
	HS7.2/AS1.10/CL3.7/NH1.13/NP3.10 , Precipitation uncertainty and variability: observations, ensemble simulation and downscaling (co-organized), 08:30–12:00, Room R4
	PSD21.13 , HS10.8 - Environmental and anthropogenic change: adaptation and co-evolution in ecohydrological systems, 10:30–11:15, Room R7
	SSS9.9/GM6.3/HS9.14/SSP3.1.23 , Connectivity in hydrology and sediment dynamics: how do we move forwards? (co-organized), 08:30–12:15, Room B6
WEL , 12:15–13:15	ML1 , Alfred Wegener Medal Lecture by Eric F. Wood (co-listed), 12:15–13:15, Room R1
WE3 , 13:30–15:00	HS2.3.9 , GW-SW interactions: concepts, methods and biogeochemical and ecologic implications, 08:30–15:00, Room R6
	HS4.4 , Drought and water scarcity: hydrological monitoring, modelling and forecasting to improve water management, 13:30–17:00, Room R8
	HS5.7 , Design and Operation of Water Resource Systems: Computer Based Control and Optimization, 13:30–15:00, Room R11
	HS7.3/CL3.6/NP1.4 , Water, climate and health (co-organized), 13:30–15:00, Room R4
WE4 , 15:30–17:00	HS4.4 , Drought and water scarcity: hydrological monitoring, modelling and forecasting to improve water management, 13:30–17:00, Room R8
	HS5.11 , Advances in Modeling of Coupled Hydrologic-Socioeconomic Systems, 15:30–17:00, Room R11
	HS8.2.2/IG13 , Residence times of groundwater, surface water and atmospheric water across hydrological scales (co-organized), 15:30–17:00, Room R4
	IG8/HS2.1.3 , Isotopes in the global water cycle: natural and anthropogenic fingerprinting in surface and groundwater at the catchment scale (co-organized), 15:30–17:00, Room R14
Thursday, 01 May	
TH1 , 08:30–10:00	ESSI2.7 , Free and Open Source Software (FOSS) for Geoinformatics and Geosciences (co-listed), 08:30–10:15, Room G1
	GM4.1/HS9.12/SSS9.18 , Human-Earth interaction from the Pleistocene to the Anthropocene: state of the science and future direction (co-organized) (co-organized), 08:30–15:03, Room G10
	HS2.3.4 , Innovative sensing techniques and data analysis approaches to increase hydrological process understanding, 08:30–10:00, Room R11

	HS4.3/AS1.17/NH1.10 , Ensemble hydro-meteorological forecasting (co-organized), 08:30–12:00, Room R6
	HS5.1 , Catchment Science and management: providing evidence for environmental directives, 08:30–12:00, Room R8
	HS8.1.4/SSS7.16 , Parameter Estimation, Inverse Modelling and Data Assimilation in Subsurface Hydrology (co-organized), 08:30–12:00, Room R4
	HS8.1.8 , The role of interfaces in flow and transport in porous media, 08:30–10:00, Room R13
	SM4.5/HS12.2 , Imaging the shallow subsurface with seismic and other geophysical methods (co-organized), 08:30–15:00, Room G12
	SSS6.1/GM4.9/HS8.3.12 , Soil carbon sequestration and greenhouse gas emissions: sources, mechanisms, processes and management practices effects (co-organized), 08:30–12:15, Room B5
TH2 , 10:30–12:00	GM4.1/HS9.12/SSS9.18 , Human-Earth interaction from the Pleistocene to the Anthropocene: state of the science and future direction (co-organized) (co-organized), 08:30–15:03, Room G10
	HS2.3.1 , Understanding catchment and hillslope responses: from changing states and non-linearities to emergent behaviours, 10:30–12:00, Room R11
	HS4.3/AS1.17/NH1.10 , Ensemble hydro-meteorological forecasting (co-organized), 08:30–12:00, Room R6
	HS5.1 , Catchment Science and management: providing evidence for environmental directives, 08:30–12:00, Room R8
	HS8.1.4/SSS7.16 , Parameter Estimation, Inverse Modelling and Data Assimilation in Subsurface Hydrology (co-organized), 08:30–12:00, Room R4
	HS8.1.9 , Physical, chemical, microbial and isotopic processes in groundwater; from soil contamination to shale gas impacts (co-sponsored by EuroGeoSurveys), 10:30–12:00, Room R13
	PSD21.4 , HS5.8 - Stakeholders, public involvement and collaborative processes in hydrology research and water management, 10:30–11:15, Room R7
	SM4.5/HS12.2 , Imaging the shallow subsurface with seismic and other geophysical methods (co-organized), 08:30–15:00, Room G12
	SSS6.1/GM4.9/HS8.3.12 , Soil carbon sequestration and greenhouse gas emissions: sources, mechanisms, processes and management practices effects (co-organized), 08:30–12:15, Room B5
THL , 12:15–13:15	PSD21.2 , HS4.3/AS1.17/NH1.10 - Ensemble hydro-meteorological forecasting, 12:15–13:00, Room R12
TH3 , 13:30–15:00	GM4.1/HS9.12/SSS9.18 , Human-Earth interaction from the Pleistocene to the Anthropocene: state of the science and future direction (co-organized) (co-organized), 08:30–15:03, Room G10
	HS4.5 , Hydrology for decision-making: the value of forecasts, predictions, scenarios, outlooks and foresights, 13:30–15:00, Room R11
	HS5.6 , Water and food security: integrating perspectives from geophysics and social sciences, 13:30–17:00, Room R8
	HS8.1.1 , Subsurface flow, solute transport, and energy processes: Concepts, modelling, and observations, 13:30–17:00, Room R13
	HS8.1.7 , Fate and transport of biocolloids and nanoparticles in soil and groundwater systems, 13:30–17:00, Room R6
	HS9.4/GM7.10 , Measurement and monitoring techniques for evaluating sediment transport and dynamic processes in open-water environments (co-organized), 13:30–15:00, Room R4

	PSD21.1 , HS4.1/AS4.18/GM7.14/NH1.7 - Flash floods and associated hazards: monitoring, forecasting, preparedness and coping strategies, 13:30–14:15, Room R7
	PSD21.10 , HS9.3/GM7.9 - Climatic and geodynamic record from the sediments and suspended load of large rivers, 13:30–14:15, Room R5
	SM4.5/HS12.2 , Imaging the shallow subsurface with seismic and other geophysical methods (co-organized), 08:30–15:00, Room G12
	SSS2.3/HS8.3.11 , Soil and water conservation for sustainable land management (co-organized), 13:30–15:15, Room B6
TH4 , 15:30–17:00	HS4.1/AS4.18/GM7.14/NH1.7 , Flash floods and associated hazards: monitoring, forecasting, preparedness and coping strategies (co-organized), 15:30–17:00, Room R11
	HS5.6 , Water and food security: integrating perspectives from geophysics and social sciences, 13:30–17:00, Room R8
	HS8.1.1 , Subsurface flow, solute transport, and energy processes: Concepts, modelling, and observations, 13:30–17:00, Room R13
	HS8.1.7 , Fate and transport of biocolloids and nanoparticles in soil and groundwater systems, 13:30–17:00, Room R6
	HS9.3/GM7.9 , Climatic and geodynamic record from the sediments and suspended load of large rivers (co-organized), 15:30–17:00, Room R4
	PSD5.1 , GM9.2/HS9.11/NH3.12 - Geomorphic and hydrological processes in proglacial areas under conditions of (rapid) deglaciation, 15:30–16:15, Room B7
	PSD21.3 , HS5.1 - Catchment Science and management: providing evidence for environmental directives, 16:30–17:15, Room R7
TH6 , 19:00–20:00	ML19 , Henry Darcy Medal Lecture by Upmanu Lall (co-listed), 19:00–20:00, Room R1

Friday, 02 May

FR1 , 08:30–10:00	BG2.5/SSS7.19 , Earth observation for monitoring and modeling the global energy, water and carbon cycles over land using model-data integration (co-listed), 08:30–12:00, Room G4
	HS2.4.2 , Hydrological extremes: from droughts to floods, 08:30–17:00, Room R1
	HS5.3 , Assessment and management of water resources in the Mediterranean and (semi-)arid regions, 08:30–10:00, Room R11
	HS8.3.3/SSS7.13 , Patterns in Soil-Vegetation-Atmosphere Systems: Monitoring, Modelling, and Data Assimilation (co-organized), 08:30–10:00, Room R4
	HS9.5/GM7.11 , Numerical modelling and experiments in river morphodynamics (co-organized), 08:30–12:00, Room R6
	HS9.7/GM7.7/SSP3.1.17/SSS7.10 , Revisiting techniques for quantifying sources and travel times of fine sediment from catchment to coast (co-organized), 08:30–10:00, Room R8
	SSS2.10/BG9.7/GM4.8/HS8.3.9/NH3.9 , How vegetation influences soil erosion and slope stability: monitoring and modeling eco-hydrological and geo-mechanical factors (co-organized), 08:30–12:15, Room B6
FR2 , 10:30–12:00	BG2.5/SSS7.19 , Earth observation for monitoring and modeling the global energy, water and carbon cycles over land using model-data integration (co-listed), 08:30–12:00, Room G4
	GI2.5 , Scientific Exploitation of Copernicus – EO Research and Innovation supporting Societal Challenges (co-listed), 10:30–12:00, Room B2
	HS2.4.2 , Hydrological extremes: from droughts to floods, 08:30–17:00, Room R1
	HS2.4.6 , Climate Change and Water Resources in Central Asia and Caucasus, 10:30–12:00, Room R8
	HS5.5 , Socio-hydrology and river basin development; scaling and sustainability issues, 10:30–12:00, Room R11
	HS8.3.5/SSS7.12 , Estimation of soil-atmosphere and vadose zone water fluxes by use of precision lysimeter measurements (co-organized), 10:30–12:00, Room R4
	HS9.5/GM7.11 , Numerical modelling and experiments in river morphodynamics (co-organized), 08:30–12:00, Room R6
	SSS2.10/BG9.7/GM4.8/HS8.3.9/NH3.9 , How vegetation influences soil erosion and slope stability: monitoring and modeling eco-hydrological and geo-mechanical factors (co-organized), 08:30–12:15, Room B6
FRL , 12:15–13:15	ML4 , Alexander von Humboldt Medal Lecture by Pradeep Mujumdar (co-listed), 12:15–13:15, Room R1
FR3 , 13:30–15:00	AS4.14/BG7.4/CL3.10 , Methane and other greenhouse gases in the Arctic (co-listed), 13:30–15:00, Room B11
	GM9.2/HS9.11/NH3.12 , Geomorphic and hydrological processes in proglacial areas under conditions of (rapid) deglaciation (co-organized), 13:30–15:00, Room G2
	HS2.1.2 , Advances in Integrated Process-Based Distributed Hydrologic Modeling, 13:30–15:00, Room R11
	HS5.4/CL4.8/ERE1.16 , Hydropower and other renewable sources of energy for a sustainable future: modeling and management issues (co-organized), 13:30–16:45, Room R8

FR4, 15:30–17:00	HS8.3.2/SSS7.14 , Monitoring and modelling transfer processes in the soil-plant-atmosphere continuum across scales (co-organized), 13:30–17:00, Room R4
	HS9.8/GM7.6 , Transfer of sediments and associated substances in catchment and river systems (co-organized), 13:30–17:00, Room R6
	NH9.13 , Global and continental scale risk assessment for natural hazards: methods and practice (co-listed), 13:30–17:00, Room G8
	HS2.2.1 , Historical hydrology, 15:30–17:00, Room R11
	HS2.4.2 , Hydrological extremes: from droughts to floods, 08:30–17:00, Room R1
	HS5.4/CL4.8/ERE1.16 , Hydropower and other renewable sources of energy for a sustainable future: modeling and management issues (co-organized), 13:30–16:45, Room R8
	HS8.3.2/SSS7.14 , Monitoring and modelling transfer processes in the soil-plant-atmosphere continuum across scales (co-organized), 13:30–17:00, Room R4
	HS9.8/GM7.6 , Transfer of sediments and associated substances in catchment and river systems (co-organized), 13:30–17:00, Room R6
	NH9.13 , Global and continental scale risk assessment for natural hazards: methods and practice (co-listed), 13:30–17:00, Room G8
	NP2.4 , Complex networks and data-driven knowledge discovery in climate and geosciences (co-listed), 15:30–17:00, Room B3
	PSD9.5 , SSS2.10/BG9.7/GM4.8/HS8.3.9/NH3.9 - How vegetation influences soil erosion and slope stability: monitoring and modeling eco-hydrological and geo-mechanical factors, 15:30–16:15, Room B7

HS – Hydrological Sciences – PICOs

Monday, 28 April

MO3 , 13:30–15:00	HS1.5/GI1.9 , Data & Models, Induction & Prediction, Information & Uncertainty: Towards a common framework for model building and predictions in the Geosciences (co-organized), PICO Spot 1
MO4 , 15:30–17:00	HS1.5/GI1.9 , Data & Models, Induction & Prediction, Information & Uncertainty: Towards a common framework for model building and predictions in the Geosciences (co-organized), PICO Spot 1

Tuesday, 29 April

TU3 , 13:30–15:00	HS3.3 , Open Source Computing in Hydrology, PICO Spot 1
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Wednesday, 30 April

WE3 , 13:30–15:00	SM5.2/HS8.1.3 , Integrated modelling of densely spaced near-surface geophysical data and geological and hydrogeological information (co-organized), PICO Spot 2
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HS – Hydrological Sciences – Posters

Monday, 28 April

MO2 , 10:30–12:00	PSD9.9 , SSS7.4/HS8.3.14 - Soil water repellency in a changing climate: occurrence and interactions with extreme meteorological and hydrological events, 10:30–11:15, Room B4
MO3 , 13:30–15:00	PSD21.7 , HS7.8 - Precipitation and urban hydrology, 13:30–14:15, Room R7
MO4 , 15:30–17:00	PSD9.12 , SSS10.10/HS8.3.20 - Irrigated Agriculture: Natural Resources Management for the Sustainability of the Ecosystem Maintaining Productivity, 15:30–16:15, Room R5
	PSD21.9 , HS8.2.7 - Mountainous Catchment Hydrogeology, 16:30–17:15, Room R12
	PSD21.11 , HS10.2 - Lakes and inland seas in a changing environment, 16:30–17:15, Room R7
MO5 , 17:30–19:00	GI1.4 , Geoscience processes related to Fukushima nuclear accident (co-listed), Red Posters, R80–R117 Related: PSD11.1, see MO4
	HS1.4 , Innovative techniques and unintended use of measurement equipment, Red Posters, R184–R195
	HS2.2.2 , Mountain Hydrology: Monitoring and modeling of snow, Red Posters, R196–R212
	HS2.3.2 , Multiscale hydrology: using large data sets and combining bottom-up and top-down modelling approaches to improve process understanding, Red Posters, R213–R226
	HS2.3.8 , Catchment Organisation and Similarity, Red Posters, R227–R244
	HS2.4.3 , Monitoring Strategies: temporal trends in groundwater and surface water quality and quantity, Red Posters, R245–R257
	HS2.4.4 , Large scale hydrology, Red Posters, R258–R275
	HS2.4.7 , Decadal flood risk changes: from detection to attribution, Red Posters, R276–R290
	HS6.5 , The Third Pole Environment - Observation and modelling of hydrometeorological processes in high elevation areas, Red Posters, R291–R307
	HS6.7 , Remote sensing of soil moisture, Red Posters, R308–R324
	HS7.5/NP8.3 , Hydroclimatic stochasticity (co-organized), Red Posters, R325–R336
	HS7.8 , Precipitation and urban hydrology, Red Posters, R337–R356 Related: PSD21.7, see MO3
	HS8.2.1 , Groundwater resources in a changing environment, Red Posters, R357–R383
	HS8.2.3 , Stochastic groundwater hydrology, Red Posters, R384–R396
	HS8.2.7 , Mountainous Catchment Hydrogeology, Red Posters, R397–R409 Related: PSD21.9, see MO4
	HS10.1/GM8.4 , Estuarine processes (co-organized), Red Posters, R410–R423
	HS10.2 , Lakes and inland seas in a changing environment, Red Posters, R424–R445 Related: PSD21.11, see MO4

	HS10.7/BG2.16 , Redistribution of rain in vegetation: Patterns, processes, and interactions at the soil-atmosphere interface (co-organized), Red Posters, R446–R458
	SSS2.5/GM6.10/HS8.3.7/SSP3.1.20 , The behaviour of soils, sediments and water within the 3D landscape: The use and mis-use of modelling and other approaches. (co-organized), Blue Posters, B1–B17
	SSS7.4/HS8.3.14 , Soil water repellency in a changing climate: occurrence and interactions with extreme meteorological and hydrological events (co-organized), Blue Posters, B56–B71 Related: PSD9.9, see MO2
	SSS10.10/HS8.3.20 , Irrigated Agriculture: Natural Resources Management for the Sustainability of the Ecosystem Maintaining Productivity (co-organized), Blue Posters, B72–B105 Related: PSD9.12, see MO4
Tuesday, 29 April	
TU1 , 08:30–10:00	PSD21.6 , HS7.4/AS4.21/CL3.8 - Change in climate, hydrology and society, 08:30–09:15, Room R12
TU2 , 10:30–12:00	PSD9.8 , SSS7.2/GM6.12/HS8.3.8 - Dynamic soil properties for understanding flow and transport in the landscape, 10:30–11:15, Room B7
	PSD21.5 , HS6.1 - Open session on remote sensing applications in hydrology and climate studies, 10:30–11:15, Room R12
TU3 , 13:30–15:00	PSD21.8 , HS8.1.6/SM5.3/SSP3.2.5/TS2.5 - Fluid processes on different spatiotemporal scales: from colloids to sedimentary basins, 13:30–14:15, Room R5
	PSD21.12 , HS10.4/GM7.13 - Linking river ecology, hydrology, and geomorphology for integrated river management, 13:30–14:15, Room R7
TU5 , 17:30–19:00	CR2.2 , Glacier Monitoring from In-situ and Remotely Sensed Observations (co-listed), Blue Posters, B921–B938
	GM7.2 , The Quaternary History of the River Nile (co-listed), Blue Posters, B391–B401
	GM7.3/HS9.9/SSP3.2.2 , Sedimentary source-to-sink fluxes and sediment budgets (co-organized), Blue Posters, B402–B418
	HS2.2.3 , Advances in hydrology using numerical weather models, Red Posters, R169–R177
	HS2.3.5 , Isotope and tracer methods: flow paths characterization, catchment response and transformation processes, Red Posters, R178–R204
	HS2.3.6 , Water quality at the catchment scale: measuring and modeling of nutrients, sediment and eutrophication impacts, Red Posters, R205–R229
	HS3.1 , HydroInformatics: computational intelligence, systems analysis, optimisation and geostatistics, Red Posters, R230–R263
	HS6.1 , Open session on remote sensing applications in hydrology and climate studies, Red Posters, R264–R279 Related: PSD21.5, see TU2
	HS6.2 , ESA's SMOS and NASA's SMAP missions: providing global observations of soil moisture and ocean salinity and beyond, Red Posters, R280–R294
	HS7.1/AS1.9/NH1.12/NP3.9 , Precipitation: from measurement to modelling and application in catchment hydrology (co-organized), Red Posters, R295–R328
	HS7.4/AS4.21/CL3.8 , Change in climate, hydrology and society (co-organized), Red Posters, R329–R352 Related: PSD21.6, see TU1
	HS8.1.2 , Hydrogeophysics: From non-invasive site characterization to improved process understanding, Red Posters, R353–R370

	HS8.1.5 , Pore Scale Characterization and Upscaling of Flow and Transport in Porous Media, Red Posters, R371–R382
	HS8.1.6/SM5.3/SSP3.2.5/TS2.5 , Fluid processes on different spatiotemporal scales: from colloids to sedimentary basins (co-organized), Red Posters, R383–R394 Related: PSD21.8, see TU3
	HS8.2.4 , Fissured and karstified aquifers, Red Posters, R395–R410
	HS8.2.5 , Thermal and mechanical processes and energy storage in porous and fractured aquifers, Red Posters, R411–R425
	HS10.3 , General Ecohydrology, Red Posters, R426–R440
	HS10.4/GM7.13 , Linking river ecology, hydrology, and geomorphology for integrated river management (co-organized), Red Posters, R441–R459 Related: PSD21.12, see TU3
	HS10.6 , Peatland Hydrology, Red Posters, R460–R482
	SSS0.4/HS8.3.10 , Spatial and Temporal Patterns in Soil Systems: Monitoring, Modeling and Characterization of Soil Water Contents and coupled biogeochemical properties (co-organized), Blue Posters, B114–B128
	SSS0.8/BG9.6/ESSI1.10/GI3.10/GM2.5/GMPV60/HS8.3.6/SSP3.1.18/TS9.14 , Platforms, Sensors and Applications with Unmanned Aerial Systems in the geosciences (co-organized), Blue Posters, B129–B151
	SSS7.2/GM6.12/HS8.3.8 , Dynamic soil properties for understanding flow and transport in the landscape (co-organized), Blue Posters, B236–B250 Related: PSD9.8, see TU2
	SSS9.12/BG2.18/GM4.7/HS8.3.23 , Coevolution of soils, landforms and vegetation: ecosystem stability thresholds and critical zone observatories (co-organized), Blue Posters, B267–B290
Wednesday, 30 April	
WE2 , 10:30–12:00	PSD21.13 , HS10.8 - Environmental and anthropogenic change: adaptation and co-evolution in ecohydrological systems, 10:30–11:15, Room R7
WE5 , 17:30–19:00	CL2.14 , Paleoflood dynamics throughout the Holocene (co-listed), Yellow Posters, Z267–Z279
	CL6.6/HS7.9 , Improving the representation of climate using high resolution climate and NWP models. (co-organized), Yellow Posters, Z360–Z370
	ESSI2.7 , Free and Open Source Software (FOSS) for Geoinformatics and Geosciences (co-listed), Red Posters, R149–R161 Related: PSD6.2, see TU1
	HS2.3.7 , Water quality at the catchment scale: monitoring and modeling of micropollutants, Red Posters, R174–R188
	HS2.3.9 , GW-SW interactions: concepts, methods and biogeochemical and ecologic implications, Red Posters, R189–R228
	HS2.4.5 , Hydrological change: Regional hydrological behaviour under transient climate and land use conditions, Red Posters, R229–R262
	HS4.2 , Hydrological forecasting: Untangling and reducing predictive uncertainty through improved model process description, data assimilation and post-processing, Red Posters, R263–R275
	HS4.4 , Drought and water scarcity: hydrological monitoring, modelling and forecasting to improve water management, Red Posters, R276–R294
	HS5.7 , Design and Operation of Water Resource Systems: Computer Based Control and Optimization, Red Posters, R295–R306

	HS5.11 , Advances in Modeling of Coupled Hydrologic-Socioeconomic Systems, Red Posters, R307–R321
	HS6.6 , Flood inundation modelling and mapping from local to global scales and the future SWOT mission, Red Posters, R322–R339
	HS6.8 , Assimilation of hydrological remote sensing data, Red Posters, R340–R355
	HS7.2/AS1.10/CL3.7/NH1.13/NP3.10 , Precipitation uncertainty and variability: observations, ensemble simulation and downscaling (co-organized), Red Posters, R356–R393
	HS7.3/CL3.6/NP1.4 , Water, climate and health (co-organized), Red Posters, R394–R409
	HS8.2.2/IG13 , Residence times of groundwater, surface water and atmospheric water across hydrological scales (co-organized), Red Posters, R410–R425
	HS10.8 , Environmental and anthropogenic change: adaptation and co-evolution in ecohydrological systems, Red Posters, R426–R439 Related: PSD21.13, see WE2
	SSS9.9/GM6.3/HS9.14/SSP3.1.23 , Connectivity in hydrology and sediment dynamics: how do we move forwards? (co-organized), Blue Posters, B150–B174
Thursday, 01 May	
TH2 , 10:30–12:00	PSD21.4 , HS5.8 - Stakeholders, public involvement and collaborative processes in hydrology research and water management, 10:30–11:15, Room R7
THL , 12:15–13:15	PSD21.2 , HS4.3/AS1.17/NH1.10 - Ensemble hydro-meteorological forecasting, 12:15–13:00, Room R12
TH3 , 13:30–15:00	PSD21.1 , HS4.1/AS4.18/GM7.14/NH1.7 - Flash floods and associated hazards: monitoring, forecasting, preparedness and coping strategies, 13:30–14:15, Room R7
	PSD21.10 , HS9.3/GM7.9 - Climatic and geodynamic record from the sediments and suspended load of large rivers, 13:30–14:15, Room R5
TH4 , 15:30–17:00	PSD5.1 , GM9.2/HS9.11/NH3.12 - Geomorphic and hydrological processes in proglacial areas under conditions of (rapid) deglaciation, 15:30–16:15, Room B7
	PSD21.3 , HS5.1 - Catchment Science and management: providing evidence for environmental directives, 16:30–17:15, Room R7
TH5 , 17:30–19:00	BG1.1/AS4.26/CL5.15/ERE5.5/HS10.9/IG10/OS3.4/SSP4.7/SSS4.12 , Open session on Biogeosciences (Posters only) (Sponsored by PalAss) (co-organized), Green Posters, G1–G39
	GI2.5 , Scientific Exploitation of Copernicus – EO Research and Innovation supporting Societal Challenges (co-listed), Red Posters, R132–R140
	GM4.1/HS9.12/SSS9.18 , Human-Earth interaction from the Pleistocene to the Anthropocene: state of the science and future direction (co-organized) (co-organized), Blue Posters, B243–B279
	HS2.3.1 , Understanding catchment and hillslope responses: from changing states and non-linearities to emergent behaviours, Red Posters, R141–R156
	HS2.3.4 , Innovative sensing techniques and data analysis approaches to increase hydrological process understanding, Red Posters, R157–R169

	HS4.1/AS4.18/GM7.14/NH1.7 , Flash floods and associated hazards: monitoring, forecasting, preparedness and coping strategies (co-organized), Red Posters, R170–R190 Related: PSD21.1, see TH3
	HS4.3/AS1.17/NH1.10 , Ensemble hydro-meteorological forecasting (co-organized), Red Posters, R191–R216 Related: PSD21.2, see THL
	HS4.5 , Hydrology for decision-making: the value of forecasts, predictions, scenarios, outlooks and foresights, Red Posters, R217–R227
	HS5.1 , Catchment Science and management: providing evidence for environmental directives, Red Posters, R228–R246 Related: PSD21.3, see TH4
	HS5.6 , Water and food security: integrating perspectives from geophysics and social sciences, Red Posters, R247–R264
	HS5.8 , Stakeholders, public involvement and collaborative processes in hydrology research and water management, Red Posters, R265–R273 Related: PSD21.4, see TH2
	HS8.1.1 , Subsurface flow, solute transport, and energy processes: Concepts, modelling, and observations, Red Posters, R274–R286
	HS8.1.4/SSS7.16 , Parameter Estimation, Inverse Modelling and Data Assimilation in Subsurface Hydrology (co-organized), Red Posters, R287–R302
	HS8.1.7 , Fate and transport of biocolloids and nanoparticles in soil and groundwater systems, Red Posters, R303–R317
	HS8.1.8 , The role of interfaces in flow and transport in porous media, Red Posters, R318–R332
	HS8.1.9 , Physical, chemical, microbial and isotopic processes in groundwater; from soil contamination to shale gas impacts (co-sponsored by EuroGeoSurveys), Red Posters, R333–R348
	HS9.2/GM7.8/SSS7.20 , Modeling the experiment, experimenting the models: experiment and model to connect geophysical flows from grains to landscapes (co-organized), Red Posters, R349–R376
	HS9.3/GM7.9 , Climatic and geodynamic record from the sediments and suspended load of large rivers (co-organized), Red Posters, R377–R397 Related: PSD21.10, see TH3
	HS9.4/GM7.10 , Measurement and monitoring techniques for evaluating sediment transport and dynamic processes in open-water environments (co-organized), Red Posters, R398–R411
	IG8/HS2.1.3 , Isotopes in the global water cycle: natural and anthropogenic fingerprinting in surface and groundwater at the catchment scale (co-organized), Red Posters, R119–R131
	SSS2.3/HS8.3.11 , Soil and water conservation for sustainable land management (co-organized), Blue Posters, B56–B68
	SSS6.1/GM4.9/HS8.3.12 , Soil carbon sequestration and greenhouse gas emissions: sources, mechanisms, processes and management practices effects (co-organized), Blue Posters, B124–B140
Friday, 02 May	
FR1, 08:30–10:00	SM4.5/HS12.2 , Imaging the shallow subsurface with seismic and other geophysical methods (co-organized), Blue Posters, B703–B715
FR2, 10:30–12:00	HS2.1.2 , Advances in Integrated Process-Based Distributed Hydrologic Modeling, Red Posters, R183–R199
	HS5.3 , Assessment and management of water resources in the Mediterranean and (semi-)arid regions, Red Posters, R277–R295

	HS5.4/CL4.8/ERE1.16 , Hydropower and other renewable sources of energy for a sustainable future: modeling and management issues (co-organized), Red Posters, R296–R310
	HS8.3.2/SSS7.14 , Monitoring and modelling transfer processes in the soil-plant-atmosphere continuum across scales (co-organized), Red Posters, R325–R344
	HS8.3.3/SSS7.13 , Patterns in Soil-Vegetation-Atmosphere Systems: Monitoring, Modelling, and Data Assimilation (co-organized), Red Posters, R345–R361
	HS9.7/GM7.7/SSP3.1.17/SSS7.10 , Revisiting techniques for quantifying sources and travel times of fine sediment from catchment to coast (co-organized), Red Posters, R402–R416
	HS9.8/GM7.6 , Transfer of sediments and associated substances in catchment and river systems (co-organized), Red Posters, R417–R438
	SM4.5/HS12.2 , Imaging the shallow subsurface with seismic and other geophysical methods (co-organized), Blue Posters, B716–B727
FR3, 13:30–15:00	BG2.5/SSS7.19 , Earth observation for monitoring and modeling the global energy, water and carbon cycles over land using model-data integration (co-listed), Green Posters, G15–G35
	HS2.2.1 , Historical hydrology, Red Posters, R200–R215
	HS2.4.2 , Hydrological extremes: from droughts to floods, Red Posters, R216–R258
	HS2.4.6 , Climate Change and Water Resources in Central Asia and Caucasus, Red Posters, R259–R276
	HS8.3.5/SSS7.12 , Estimation of soil-atmosphere and vadose zone water fluxes by use of precision lysimeter measurements (co-organized), Red Posters, R362–R378
	HS9.5/GM7.11 , Numerical modelling and experiments in river morphodynamics (co-organized), Red Posters, R379–R401
FR4, 15:30–17:00	HS5.5 , Socio-hydrology and river basin development; scaling and sustainability issues, Red Posters, R311–R324
	PSD9.5 , SSS2.10/BG9.7/GM4.8/HS8.3.9/NH3.9 - How vegetation influences soil erosion and slope stability: monitoring and modeling eco-hydrological and geo-mechanical factors, 15:30–16:15, Room B7
FR5, 17:30–19:00	AS4.14/BG7.4/CL3.10 , Methane and other greenhouse gases in the Arctic (co-listed), Yellow Posters, Z256–Z269
	GM9.2/HS9.11/NH3.12 , Geomorphic and hydrological processes in proglacial areas under conditions of (rapid) deglaciation (co-organized), Blue Posters, B433–B447 Related: PSD5.1, see TH4
	NH9.13 , Global and continental scale risk assessment for natural hazards: methods and practice (co-listed), Blue Posters, B339–B354
	NP2.4 , Complex networks and data-driven knowledge discovery in climate and geosciences (co-listed), Blue Posters, B935–B945
	SSS2.10/BG9.7/GM4.8/HS8.3.9/NH3.9 , How vegetation influences soil erosion and slope stability: monitoring and modeling eco-hydrological and geo-mechanical factors (co-organized), Blue Posters, B49–B69 Related: PSD9.5, see FR4