

HS – Hydrological Sciences – Oral Sessions

Monday, 23 April

MO1 , 08:30–10:00	CL1.15 , Temperature observations in the subsurface: contributions to climate sciences, soil sciences, permafrost, glaciology, hydrology, and heat flow studies (co-listed), 08:30–12:00 in Room 13
	GM8.3 , Coastal zone geomorphologic interactions: natural versus human-induced driving factors (co-listed), 08:30–12:00 in Room 21
	HS1.3 , Metrics, measures and objective functions in Hydrology', 08:30–10:00 in Room 39
	HS1.4 , Chinese River Basins: Advances in Hydrological Science and Engineering, 08:30–12:00 in Room 36
	HS2.5 , Mountain Hydrology: Monitoring and modeling of snow (merged with Sub-arctic hydrology), 08:30–12:00 in Room 33
	HS8.2.2/IG17 , Groundwater Dating: Applications and current problems (co-organized), 08:30–10:00 in Room 38
	PSD16.7 , HS10.1 - Lakes and inland seas, 08:30–09:15 in Room 37
	TS2.4/HS8.1.8 , Fractures, faults and fluid flow: from observations to mechanisms (co-organized), 08:30–15:00 in Room 11
MO2 , 10:30–12:00	CL1.15 , Temperature observations in the subsurface: contributions to climate sciences, soil sciences, permafrost, glaciology, hydrology, and heat flow studies (co-listed), 08:30–12:00 in Room 13
	GM8.3 , Coastal zone geomorphologic interactions: natural versus human-induced driving factors (co-listed), 08:30–12:00 in Room 21
	HS1.4 , Chinese River Basins: Advances in Hydrological Science and Engineering, 08:30–12:00 in Room 36
	HS2.5 , Mountain Hydrology: Monitoring and modeling of snow (merged with Sub-arctic hydrology), 08:30–12:00 in Room 33
	HS4.6 , Why predict? The value of prediction in hydrological sciences and policy, 10:30–12:00 in Room 39
	HS8.2.3 , Fissured and karstified aquifers, 10:30–12:00 in Room 38
	HS9.4 , Sediment transfers and travel times in catchment systems, 10:30–12:00 in Room 34
	PSD16.15 , HS8.2.5 - Sedimentary basins as active fluid circulation systems, 11:30–12:15 in Room 37
MO3 , 13:30–15:00	TS2.4/HS8.1.8 , Fractures, faults and fluid flow: from observations to mechanisms (co-organized), 08:30–15:00 in Room 11
	CL5.3/HS6.7 , Climate Data Bias-Correction and Homogenization and Climate Trends and Variability Assessment (co-organized), 13:30–17:00 in Room 16
	HS2.17 , Catchment Similarity and Organisation, 13:30–17:00 in Room 33
	HS5.6 , Climate Change and Impact on Drinking Water Supply, 13:30–15:00 in Room 39
	HS5.8 , Catchment science, management and stakeholder participation, 13:30–17:00 in Room 36
	HS8.2.5 , Sedimentary basins as active fluid circulation systems, 13:30–15:00 in Room 38
	NH1.6/HS4.7 , Flood risk and uncertainty (co-organized), 13:30–15:00 in Room 1
	SSS1.4 , Urban soils and the urbanization impacts (co-listed), 13:30–15:00 in Room 22

	TS2.4/HS8.1.8 , Fractures, faults and fluid flow: from observations to mechanisms (co-organized), 08:30–15:00 in Room 11
MO4 , 15:30–17:00	CL5.3/HS6.7 , Climate Data Bias-Correction and Homogenization and Climate Trends and Variability Assessment (co-organized), 13:30–17:00 in Room 16
	GM7.6 , Sedimentary source-to-sink fluxes and sediment budgets (co-listed), 15:30–17:00 in Room 21
	HS2.17 , Catchment Similarity and Organisation, 13:30–17:00 in Room 33
	HS5.3 , Advances in Modeling of Coupled Hydrologic-Socioeconomic Systems, 15:30–17:00 in Room 39
	HS5.8 , Catchment science, management and stakeholder participation, 13:30–17:00 in Room 36
	HS8.2.9 , Groundwater resources in a changing environment, 15:30–17:00 in Room 38
	PSD16.4 , HS4.6 - Why predict? The value of prediction in hydrological sciences and policy, 16:30–17:15 in Room 37
	TS2.3/EMRP2.8/HS8.1.7 , Flow Properties of Transforming Porous Media (co-organized), 15:30–17:00 in Room 11
Tuesday, 24 April	
TU1 , 08:30–10:00	ERE2.4 , Modelling and upscaling of CO2 storage sites (co-listed), 08:30–12:00 in Room 19
	HS4.2 , Hydrological forecasting: challenges in uncertainty estimation, data assimilation, post-processing, real-time control and decision-making, 08:30–12:00 in Room 36
	HS5.1 , Assessment and management of water resources: Adapting to drought and water scarcity in tropical, dryland, and Mediterranean countries, 08:30–10:00 in Room 34
	HS8.2.1 , Stochastic groundwater hydrology, 08:30–12:00 in Room 33
	HS8.2.7 , Freshwater-saltwater interactions and density-driven flow, 08:30–10:00 in Room 38
	HS9.3/SSS5.23 , Effects of forest cover loss and land use change on erosion, sediment dynamics and ecosystem health (co-organized), 08:30–10:00 in Room 39
TU2 , 10:30–12:00	ERE2.4 , Modelling and upscaling of CO2 storage sites (co-listed), 08:30–12:00 in Room 19
	HS2.2 , Observational hydrology: Recent developments in distributed sensing techniques and experimental catchments, 10:30–12:00 in Room 38
	HS4.2 , Hydrological forecasting: challenges in uncertainty estimation, data assimilation, post-processing, real-time control and decision-making, 08:30–12:00 in Room 36
	HS5.9 , Hydrological, ecological, geomorphic and economic implications of Mountain Resort Development, 10:30–12:00 in Room 39
	HS8.2.1 , Stochastic groundwater hydrology, 08:30–12:00 in Room 33
	SSS5.8 , Models and scaling: Assessing impact of climate change and land management on erosion and sediment dynamics (co-listed), 10:30–15:00 in Room 22
TU3 , 13:30–15:00	HS2.4 , Hydrology and remote sensing for monitoring, modelling and improve the management of urban and rural water systems, 13:30–17:00 in Room 34

	HS2.9 , Large scale hydrology, 13:30–17:00 in Room 38
	HS4.3/AS1.18/NH1.2 , Ensemble hydro-meteorological forecasting for improved risk management: across scales and applications (co-organized), 13:30–17:00 in Room 36
	HS5.5 , Models and computational methods for management and optimization of controlled water resources systems, 13:30–17:00 in Room 39
	HS8.1.1 , Subsurface flow, solute transport, and energy processes: Concepts, modelling, and observations, 13:30–17:00 in Room 33
	SSS5.8 , Models and scaling: Assessing impact of climate change and land management on erosion and sediment dynamics (co-listed), 10:30–15:00 in Room 22
TU4 , 15:30–17:00	HS2.4 , Hydrology and remote sensing for monitoring, modelling and improve the management of urban and rural water systems, 13:30–17:00 in Room 34
	HS2.9 , Large scale hydrology, 13:30–17:00 in Room 38
	HS4.3/AS1.18/NH1.2 , Ensemble hydro-meteorological forecasting for improved risk management: across scales and applications (co-organized), 13:30–17:00 in Room 36
	HS5.5 , Models and computational methods for management and optimization of controlled water resources systems, 13:30–17:00 in Room 39
	HS8.1.1 , Subsurface flow, solute transport, and energy processes: Concepts, modelling, and observations, 13:30–17:00 in Room 33
	PSD16.6 , HS8.2.1 - Stochastic groundwater hydrology, 16:30–17:15 in Room 35
	SSS5.4 , Assessment and modeling of concentrated flow erosion (co-listed), 15:30–17:00 in Room 22
Wednesday, 25 April	
WE1 , 08:30–10:00	GI2.5 , Preparatory activities for the scientific utilisation of the GMES Sentinel satellites constellations including Cal/Val activities of their optical instruments. (co-listed), 08:30–12:00 in Room 42
	HS1.1 , Visionary session on the next Hydrological Decade, 08:30–12:00 in Room 36
	HS4.1/GM7.8/NH1.7 , Flash floods: processes, forecasting and risk management (co-organized), 08:30–12:00 in Room 39
	HS6.1 , The Third Pole Environment - Observation and modelling of hydrometeorological processes in high elevation areas, 08:30–12:00 in Room 38
	HS8.1.2 , Hydrogeophysics: From non-invasive site characterization to improved process understanding, 08:30–12:00 in Room 33
	SSS7.3 , Where does all the Pyrogenic Organic Matter go? Its Fate in Soils, Water and Sediments (co-listed), 08:30–12:00 in Room 3
WE2 , 10:30–12:00	GI2.5 , Preparatory activities for the scientific utilisation of the GMES Sentinel satellites constellations including Cal/Val activities of their optical instruments. (co-listed), 08:30–12:00 in Room 7
	HS1.1 , Visionary session on the next Hydrological Decade, 08:30–12:00 in Room 36
	HS4.1/GM7.8/NH1.7 , Flash floods: processes, forecasting and risk management (co-organized), 08:30–12:00 in Room 39

	HS6.1 , The Third Pole Environment - Observation and modelling of hydrometeorological processes in high elevation areas, 08:30–12:00 in Room 38
	HS8.1.2 , Hydrogeophysics: From non-invasive site characterization to improved process understanding, 08:30–12:00 in Room 33
	PSD16.13 , HS3.3 - Poster Session on Open Source Computing in Hydrology, 11:30–12:15 in Room 35
	SSS5.15 , Cutting across the soil-water field: A way to make new flowers blooming or the risk of sitting on the fence? (co-listed), 10:30–12:00 in Room 22
	SSS7.3 , Where does all the Pyrogenic Organic Matter go? Its Fate in Soils, Water and Sediments (co-listed), 08:30–12:00 in Room 3
WE3 , 13:30–15:00	HS2.13 , Hydrological change: Regional hydrological behaviour under transient climate and land use conditions, 13:30–17:00 in Room 33
	HS6.2 , Remote sensing of soil moisture, 13:30–17:00 in Room 36
	HS8.1.3 , Parameter Estimation, Inverse Modelling and Data Assimilation in Subsurface Hydrology, 13:30–15:00 in Room 38
	HS10.1 , Lakes and inland seas, 13:30–17:00 in Room 34
	PSD16.11 , HS4.1/GM7.8/NH1.7 - Flash floods: processes, forecasting and risk management, 13:30–14:15 in Room 35
	SSS11.3 , Soil and irrigation sustainability practices (co-listed), 13:30–17:00 in Room 22
WE4 , 15:30–17:00	HS2.13 , Hydrological change: Regional hydrological behaviour under transient climate and land use conditions, 13:30–17:00 in Room 33
	HS4.4 , Drought and water scarcity: hydrological monitoring, modeling and forecasting, 15:30–17:00 in Room 39
	HS6.2 , Remote sensing of soil moisture, 13:30–17:00 in Room 36
	HS8.1.4 , Groundwater Recharge: Water and solute transport through the unsaturated zone to the groundwater, 15:30–17:00 in Room 38
	HS10.1 , Lakes and inland seas, 13:30–17:00 in Room 34
	NP3.3 , Subgrid models and parameterization (co-listed), 15:30–17:15 in Room 28
	PSD16.14 , HS8.1.3 - Parameter Estimation, Inverse Modelling and Data Assimilation in Subsurface Hydrology, 16:30–17:15 in Room 35
	SC5/HS11.1 , Short Course: Hydrological Analysis in R (co-organized), 15:30–19:00 in Room 25
	SSS11.3 , Soil and irrigation sustainability practices (co-listed), 13:30–17:00 in Room 22
WE5 , 17:30–19:00	SC5/HS11.1 , Short Course: Hydrological Analysis in R (co-organized), 15:30–19:00 in Room 25
WE6 , 19:00–20:00	ML14 , John Dalton Medal Lecture by Kurth Roth (co-listed), 19:00–20:00 in Room 33
Thursday, 26 April	
TH1 , 08:30–10:00	ERE2.6/SM3.8 , Geophysical imaging of CO2 geological storage sites (co-listed), 08:30–10:00 in Room 19
	GM6.2/HS9.6/SSS5.21 , Connectivity in water and sediment dynamics: how do we move forwards? (co-organized), 08:30–12:00 in Room 21
	HS2.10 , Experimental design and measurement techniques in surface water/groundwater interaction studies, 08:30–10:00 in Room 39
	HS2.18 , Improving hypothesis testing in hydrology, 08:30–12:00 in Room 34

	HS6.2 , Remote sensing of soil moisture, 13:30–17:00 in Room 36
	HS7.1 , Precipitation: from measurement to modelling and application in catchment hydrology, 08:30–12:00 in Room 33
	HS8.1.5 , Fate and transport of biocolloids and nanoparticles in soil and groundwater systems, 08:30–10:00 in Room 38
	SSS6.10 , Combat desertification and soil degradation in arid and humid environments and assess impacts on ecosystem services – approaches and solutions. (co-listed), 08:30–15:00 in Room 6
	SSS13.3 , Modeling the experiment, experimenting the models - combining rain and wind to soil erosion (co-listed), 08:30–12:00 in Room 3
TH2 , 10:30–12:00	GM6.2/HS9.6/SSS5.21 , Connectivity in water and sediment dynamics: how do we move forwards? (co-organized), 08:30–12:00 in Room 21
	HS2.6 , Hydrological extremes: from droughts to floods, 10:30–17:00 in Room 36
	HS2.16 , Water quality at the catchment scale: monitoring and modeling of micropollutants, 10:30–12:00 in Room 39
	HS2.18 , Improving hypothesis testing in hydrology, 08:30–12:00 in Room 34
	HS7.1 , Precipitation: from measurement to modelling and application in catchment hydrology, 08:30–12:00 in Room 33
	HS8.1.6 , Characterizing contaminant fate in the subsurface using physical, chemical, microbial and isotopic tools, 10:30–12:00 in Room 38
	SSS6.10 , Combat desertification and soil degradation in arid and humid environments and assess impacts on ecosystem services – approaches and solutions. (co-listed), 08:30–15:00 in Room 6
	SSS13.3 , Modeling the experiment, experimenting the models - combining rain and wind to soil erosion (co-listed), 08:30–12:00 in Room 3
TH3 , 13:30–15:00	ERE5.3/GMPV6.7/HS8.2.8/SSS5.22 , Coupled Physical and Chemical Transformations Affecting the Performance of GeoSystems (co-organized), 13:30–17:00 in Room 19
	GM7.1 , Quantifying fluvial channel processes - New and innovative multidisciplinary approaches (co-listed), 13:30–17:00 in Room 21
	HS2.6 , Hydrological extremes: from droughts to floods, 10:30–17:00 in Room 36
	HS2.14 , Hydrology of temporary streams and basins, 13:30–15:00 in Room 34
	HS7.4/AS4.17/CL2.10 , Climate, Hydrology and Water Infrastructure (co-organized), 13:30–17:00 in Room 33
	HS8.3.1 , Monitoring and modelling transfer processes in the soil-plant-atmosphere continuum across scales, 13:30–17:00 in Room 39
	HS10.7 , Interactions between surface water, groundwater, and the hyporheic zone, 13:30–17:00 in Room 38
	SSS6.10 , Combat desertification and soil degradation in arid and humid environments and assess impacts on ecosystem services – approaches and solutions. (co-listed), 08:30–15:00 in Room 6
TH4 , 15:30–17:00	ERE5.3/GMPV6.7/HS8.2.8/SSS5.22 , Coupled Physical and Chemical Transformations Affecting the Performance of GeoSystems (co-organized), 13:30–17:00 in Room 19
	GM2.3 , Geomorphological maps - indispensable tool in geomorphology (co-listed), 15:30–17:00 in Room 2
	GM7.1 , Quantifying fluvial channel processes - New and innovative multidisciplinary approaches (co-listed), 13:30–17:00 in Room 21
	HS2.6 , Hydrological extremes: from droughts to floods, 10:30–17:00 in Room 36

	HS3.2 , Geostatistics for space-time analysis of hydrological events, 15:30–17:00 in Room 34
	HS7.4/AS4.17/CL2.10 , Climate, Hydrology and Water Infrastructure (co-organized), 13:30–17:00 in Room 33
	HS8.3.1 , Monitoring and modelling transfer processes in the soil-plant-atmosphere continuum across scales, 13:30–17:00 in Room 39
	HS10.7 , Interactions between surface water, groundwater, and the hyporheic zone, 13:30–17:00 in Room 38
	PSD12.8 , GM7.2/HS9.2 - Morphodynamics of Rivers and Estuaries: Sediment Budgets, Monitoring Techniques and Process Dynamics, 15:30–16:15 in Room 40
	PSD16.1 , HS2.10 - Experimental design and measurement techniques in surface water/groundwater interaction studies, 15:30–16:15 in Room 37
TH6 , 19:00–20:00	ML15 , Henry Darcy Medal Lecture by Tissa H. Illangasekare (co-listed), 19:00–20:00 in Room 33
Friday, 27 April	
FR1 , 08:30–10:00	GM7.5/HS10.9 , Dynamic riverine landscapes: the role of ecosystem engineers (co-organized), 08:30–10:00 in Room 21
	HS2.7 , Monitoring Strategies: temporal trends in groundwater and surface water quality and quantity, 08:30–12:00 in Room 38
	HS3.1 , Hydroinformatics: computational intelligence and systems analysis, 08:30–12:00 in Room 34
	HS7.2/AS1.20/CL5.16/NH1.3/NP3.6 , Precipitation uncertainty and variability: observations, ensemble simulation and downscaling (co-organized), 08:30–17:00 in Room 33
	HS8.3.4 , The role of interfaces in flow and transport in porous media, 08:30–10:00 in Room 39
	HS10.6 , The role of rainfall and soil water in shaping land-vegetation-atmosphere interactions, 08:30–17:00 in Room 36
	IG1/GMPV2.3/HS2.22/SSP5.1/SSS13.5/TS1.8 , Stable isotopes in geosciences - open session, including blocks of special attention (co-organized), 08:30–12:00 in Room 42
	PSD16.9 , HS10.7 - Interactions between surface water, groundwater, and the hyporheic zone, 08:30–09:15 in Room 35
FR2 , 10:30–12:00	GM7.3/HS9.7/NH1.9 , Morphodynamics of steep mountain channels (co-organized), 10:30–12:00 in Room 21
	HS2.7 , Monitoring Strategies: temporal trends in groundwater and surface water quality and quantity, 08:30–12:00 in Room 38
	HS3.1 , Hydroinformatics: computational intelligence and systems analysis, 08:30–12:00 in Room 34
	HS7.2/AS1.20/CL5.16/NH1.3/NP3.6 , Precipitation uncertainty and variability: observations, ensemble simulation and downscaling (co-organized), 08:30–17:00 in Room 33
	HS8.3.3 , Trace gases emissions from soils: Sources, mechanisms and process rates, 10:30–12:00 in Room 39
	HS10.6 , The role of rainfall and soil water in shaping land-vegetation-atmosphere interactions, 08:30–17:00 in Room 36
	IG1/GMPV2.3/HS2.22/SSP5.1/SSS13.5/TS1.8 , Stable isotopes in geosciences - open session, including blocks of special attention (co-organized), 08:30–12:00 in Room 42
FR3 , 13:30–15:00	GM7.2/HS9.2 , Morphodynamics of Rivers and Estuaries: Sediment Budgets, Monitoring Techniques and Process Dynamics (co-organized), 13:30–15:00 in Room 21

	HS2.15 , Water quality at the catchment scale: Advances in measuring and modeling nutrient, sediment, and contaminant fluxes, 13:30–17:00 in Room 38
	HS7.2/AS1.20/CL5.16/NH1.3/NP3.6 , Precipitation uncertainty and variability: observations, ensemble simulation and downscaling (co-organized), 08:30–17:00 in Room 33
	HS10.6 , The role of rainfall and soil water in shaping land-vegetation-atmosphere interactions, 08:30–17:00 in Room 36
	HS10.8/BG4.4 , Environmental and anthropogenic change affecting catchments and groundwater-dependent ecosystems (co-organized), 13:30–15:00 in Room 39
	NH8.1 , Heavy-metal contamination of the environment (co-listed), 13:30–15:00 in Room 8
FR4 , 15:30–17:00	GM7.4 , Braided rivers: insights from new monitoring and modelling techniques (co-listed), 15:30–17:00 in Room 21
	HS2.8 , Observational hydrology: Recent development in isotope and other tracer methods, 15:30–17:00 in Room 14
	HS2.15 , Water quality at the catchment scale: Advances in measuring and modeling nutrient, sediment, and contaminant fluxes, 13:30–17:00 in Room 38
	HS7.2/AS1.20/CL5.16/NH1.3/NP3.6 , Precipitation uncertainty and variability: observations, ensemble simulation and downscaling (co-organized), 08:30–17:00 in Room 33
	HS7.5/NP8.3 , Hydroclimatic stochasticity (co-organized), 15:30–17:00 in Room 34
	HS10.2/GM8.2 , Estuarine processes (co-organized), 15:30–17:00 in Room 39
	HS10.6 , The role of rainfall and soil water in shaping land-vegetation-atmosphere interactions, 08:30–17:00 in Room 36
	SSS8.1 , Ecology and Erosion (co-listed), 15:30–17:00 in Room 3

HS – Hydrological Sciences – Poster Sessions

Monday, 23 April

MO1 , 08:30–10:00	PSD16.7 , HS10.1 - Lakes and inland seas, 08:30–09:15 in Room 37
MO2 , 10:30–12:00	PSD16.15 , HS8.2.5 - Sedimentary basins as active fluid circulation systems, 11:30–12:15 in Room 37
MO4 , 15:30–17:00	CL1.15 , Temperature observations in the subsurface: contributions to climate sciences, soil sciences, permafrost, glaciology, hydrology, and heat flow studies (co-listed), in Hall Z, Z67–Z84
	PSD16.4 , HS4.6 - Why predict? The value of prediction in hydrological sciences and policy, 16:30–17:15 in Room 37
MO5 , 17:30–19:00	BG4.2 , Glacial retreat: implications for microbial ecology and biogeochemistry (co-listed), in Poster Area BG, BG70–BG77
	CL5.3/HS6.7 , Climate Data Bias-Correction and Homogenization and Climate Trends and Variability Assessment (co-organized), in Hall Z, Z116–Z138
	GM7.6 , Sedimentary source-to-sink fluxes and sediment budgets (co-listed), in Hall XL, XL239–XL253
	GM8.3 , Coastal zone geomorphologic interactions: natural versus human-induced driving factors (co-listed), in Hall XL, XL254–XL273
	HS1.2 , Innovative techniques and unintended use of measurement equipment, in Hall A, A44–A60
	HS1.3 , Metrics, measures and objective functions in Hydrology', in Hall A, A61–A74
	HS1.4 , Chinese River Basins: Advances in Hydrological Science and Engineering, in Hall A, A75–A101
	HS2.5 , Mountain Hydrology: Monitoring and modeling of snow (merged with Sub-arctic hydrology), in Hall A, A102–A137
	HS2.17 , Catchment Similarity and Organisation, in Hall A, A138–A164
	HS4.6 , Why predict? The value of prediction in hydrological sciences and policy, in Hall A, A165–A174 Related: PSD16.4, see MO4
	HS5.3 , Advances in Modeling of Coupled Hydrologic-Socioeconomic Systems, in Hall A, A175–A189
	HS5.6 , Climate Change and Impact on Drinking Water Supply, in Hall A, A190–A205
	HS8.2.2/IG17 , Groundwater Dating: Applications and current problems (co-organized), in Hall A, A206–A220
	HS8.2.3 , Fissured and karstified aquifers, in Hall A, A221–A235
	HS8.2.5 , Sedimentary basins as active fluid circulation systems, in Hall A, A236–A259 Related: PSD16.15, see MO2
	HS8.2.9 , Groundwater resources in a changing environment, in Hall A, A260–A275
	HS9.4 , Sediment transfers and travel times in catchment systems, in Hall A, A276–A291
	NH1.6/HS4.7 , Flood risk and uncertainty (co-organized), in Hall X/Y, XY220–XY240
	SSS1.4 , Urban soils and the urbanization impacts (co-listed), in Hall X/Y, XY535–XY552
	TS2.3/EMRP2.8/HS8.1.7 , Flow Properties of Transforming Porous Media (co-organized), in Hall A, A347–A363

TS2.4/HS8.1.8, Fractures, faults and fluid flow: from observations to mechanisms (co-organized), in **Hall A, A364–A392**

Tuesday, 24 April

TU4, 15:30–17:00 **PSD16.6**, HS8.2.1 - Stochastic groundwater hydrology, **16:30–17:15** in **Room 35**

TU5, 17:30–19:00 **ERE2.4**, Modelling and upscaling of CO2 storage sites (co-listed), in **Hall Z, Z129–Z151** | Related: PSD6.7, see TUL

GI2.5, Preparatory activities for the scientific utilisation of the GMES Sentinel satellites constellations including Cal/Val activities of their optical instruments. (co-listed), in **Hall A, A97–A116**

HS2.2, Observational hydrology: Recent developments in distributed sensing techniques and experimental catchments, in **Hall A, A156–A172**

HS2.4, Hydrology and remote sensing for monitoring, modelling and improve the management of urban and rural water systems, in **Hall A, A173–A194**

HS2.9, Large scale hydrology, in **Hall A, A195–A215**

HS4.2, Hydrological forecasting: challenges in uncertainty estimation, data assimilation, post-processing, real-time control and decision-making, in **Hall A, A216–A242**

HS4.3/AS1.18/NH1.2, Ensemble hydro-meteorological forecasting for improved risk management: across scales and applications (co-organized), in **Hall A, A243–A261**

HS5.1, Assessment and management of water resources: Adapting to drought and water scarcity in tropical, dryland, and Mediterranean countries, in **Hall A, A262–A280**

HS5.8, Catchment science, management and stakeholder participation, in **Hall A, A281–A305**

HS5.9, Hydrological, ecological, geomorphic and economic implications of Mountain Resort Development, in **Hall A, A306–A318**

HS8.1.1, Subsurface flow, solute transport, and energy processes: Concepts, modelling, and observations, in **Hall A, A319–A342**

HS8.2.1, Stochastic groundwater hydrology, in **Hall A, A343–A362** | Related: PSD16.6, see TU4

HS8.2.7, Freshwater-saltwater interactions and density-driven flow, in **Hall A, A363–A375**

HS9.3/SSS5.23, Effects of forest cover loss and land use change on erosion, sediment dynamics and ecosystem health (co-organized), in **Hall A, A376–A387**

NH1.8/AS4.15/ESSI1.3/HS5.10/HS7.7, ICT-based hydrometeorology science and natural disaster societal impact assessment (co-organized), in **Hall X/Y, XY168–XY177**

SSS5.4, Assessment and modeling of concentrated flow erosion (co-listed), in **Hall X/Y, XY535–XY549**

SSS5.8, Models and scaling: Assessing impact of climate change and land management on erosion and sediment dynamics (co-listed), in **Hall X/Y, XY582–XY596**

Wednesday, 25 April

WE2, 10:30–12:00 **PSD16.13**, HS3.3 - Poster Session on Open Source Computing in Hydrology, **11:30–12:15** in **Room 35**

WE3 , 13:30–15:00	PSD16.11 , HS4.1/GM7.8/NH1.7 - Flash floods: processes, forecasting and risk management, 13:30–14:15 in Room 35
WE4 , 15:30–17:00	PSD16.14 , HS8.1.3 - Parameter Estimation, Inverse Modelling and Data Assimilation in Subsurface Hydrology, 16:30–17:15 in Room 35
WE5 , 17:30–19:00	GM7.1 , Quantifying fluvial channel processes - New and innovative multidisciplinary approaches (co-listed), in Hall XL, XL160–XL185
	HS2.13 , Hydrological change: Regional hydrological behaviour under transient climate and land use conditions, in Hall A, A73–A111
	HS3.3 , Poster Session on Open Source Computing in Hydrology, in Hall A, A112–A138 Related: PSD16.13, see WE2
	HS4.1/GM7.8/NH1.7 , Flash floods: processes, forecasting and risk management (co-organized), in Hall A, A139–A157 Related: PSD16.11, see WE3
	HS4.4 , Drought and water scarcity: hydrological monitoring, modeling and forecasting, in Hall A, A158–A180
	HS5.5 , Models and computational methods for management and optimization of controlled water resources systems, in Hall A, A181–A202
	HS6.1 , The Third Pole Environment - Observation and modelling of hydrometeorological processes in high elevation areas, in Hall A, A203–A219
	HS6.2 , Remote sensing of soil moisture, in Hall A, A220–A240
	HS6.3 , Assimilation of remote sensing data for distributed land surface modeling, in Hall A, A241–A252
	HS6.5 , High to coarse resolution remote sensing for operational hydrological applications, in Hall A, A253–A262
	HS8.1.2 , Hydrogeophysics: From non-invasive site characterization to improved process understanding, in Hall A, A263–A283
	HS8.1.3 , Parameter Estimation, Inverse Modelling and Data Assimilation in Subsurface Hydrology, in Hall A, A284–A308 Related: PSD16.14, see WE4
	HS8.1.4 , Groundwater Recharge: Water and solute transport through the unsaturated zone to the groundwater, in Hall A, A309–A323
	HS10.1 , Lakes and inland seas, in Hall A, A324–A349 Related: PSD16.7, see MO1
	HS10.3 , Land-water interaction at the river basin scale: ecohydrology approaches to understanding the impact of upstream processes on downstream estuarine and coastal ecosystems, in Hall A, A350–A355
	HS10.5/BG2.21 , Geological and hydro-biogeochemical feedbacks shaping habitats and biodiversity in terrestrial systems (co-organized), in Hall A, A356–A368
	NP3.3 , Subgrid models and parameterization (co-listed), in Hall X/Y, XY411–XY425
	SSS5.15 , Cutting across the soil-water field: A way to make new flowers blooming or the risk of sitting on the fence? (co-listed), in Hall X/Y, XY604–XY618
	SSS7.3 , Where does all the Pyrogenic Organic Matter go? Its Fate in Soils, Water and Sediments (co-listed), in Hall X/Y, XY619–XY638 Related: PSD4.13, see WE3
	SSS11.3 , Soil and irrigation sustainability practices (co-listed), in Hall X/Y, XY639–XY662 Related: PSD4.14, see WE6
Thursday, 26 April	
TH3 , 13:30–15:00	ERE2.6/SM3.8 , Geophysical imaging of CO2 geological storage sites (co-listed), in Hall XL, XL1–XL10

TH4, 15:30–17:00	PSD12.8, GM7.2/HS9.2 - Morphodynamics of Rivers and Estuaries: Sediment Budgets, Monitoring Techniques and Process Dynamics, 15:30–16:15 in Room 40
	PSD16.1, HS2.10 - Experimental design and measurement techniques in surface water/groundwater interaction studies, 15:30–16:15 in Room 37
TH5, 17:30–19:00	ERE5.3/GMPV6.7/HS8.2.8/SSS5.22, Coupled Physical and Chemical Transformations Affecting the Performance of GeoSystems (co-organized), in Hall XL, XL32–XL57
	GM2.3, Geomorphological maps - indispensable tool in geomorphology (co-listed), in Hall XL, XL260–XL271
	HS2.10, Experimental design and measurement techniques in surface water/groundwater interaction studies, in Hall A, A38–A52 Related: PSD16.1, see TH4
	HS2.16, Water quality at the catchment scale: monitoring and modeling of micropollutants, in Hall A, A53–A67
	HS2.18, Improving hypothesis testing in hydrology, in Hall A, A68–A77
	HS7.1, Precipitation: from measurement to modelling and application in catchment hydrology, in Hall A, A78–A103
	HS7.2/AS1.20/CL5.16/NH1.3/NP3.6, Precipitation uncertainty and variability: observations, ensemble simulation and downscaling (co-organized), in Hall A, A104–A138
	HS7.3/CL2.9/NP1.3, Climate, water and health (co-organized), in Hall A, A139–A151
	HS8.1.5, Fate and transport of biocolloids and nanoparticles in soil and groundwater systems, in Hall A, A152–A168
	HS8.1.6, Characterizing contaminant fate in the subsurface using physical, chemical, microbial and isotopic tools, in Hall A, A169–A184
	HS8.3.1, Monitoring and modelling transfer processes in the soil-plant-atmosphere continuum across scales, in Hall A, A185–A199
	HS10.6, The role of rainfall and soil water in shaping land-vegetation-atmosphere interactions, in Hall A, A200–A233
	IG1/GMPV2.3/HS2.22/SSP5.1/SSS13.5/TS1.8, Stable isotopes in geosciences - open session, including blocks of special attention (co-organized), in Hall A, A234–A252
	SSS6.10, Combat desertification and soil degradation in arid and humid environments and assess impacts on ecosystem services – approaches and solutions. (co-listed), in Hall Z, Z79–Z109
	SSS13.3, Modeling the experiment, experimenting the models - combining rain and wind to soil erosion (co-listed), in Hall Z, Z157–Z184
Friday, 27 April	
FR1, 08:30–10:00	PSD16.9, HS10.7 - Interactions between surface water, groundwater, and the hyporheic zone, 08:30–09:15 in Room 35
FR2, 10:30–12:00	GM6.2/HS9.6/SSS5.21, Connectivity in water and sediment dynamics: how do we move forwards? (co-organized), in Hall XL, XL99–XL117
	GM7.2/HS9.2, Morphodynamics of Rivers and Estuaries: Sediment Budgets, Monitoring Techniques and Process Dynamics (co-organized), in Hall XL, XL118–XL139 Related: PSD12.8, see TH4
	GM7.4, Braided rivers: insights from new monitoring and modelling techniques (co-listed), in Hall XL, XL161–XL172
	HS2.6, Hydrological extremes: from droughts to floods, in Hall A, A46–A80

	HS2.14 , Hydrology of temporary streams and basins, in Hall A, A121–A134
	HS2.15 , Water quality at the catchment scale: Advances in measuring and modeling nutrient, sediment, and contaminant fluxes, in Hall A, A135–A158
	HS3.2 , Geostatistics for space-time analysis of hydrological events, in Hall A, A176–A190
	HS7.4/AS4.17/CL2.10 , Climate, Hydrology and Water Infrastructure (co-organized), in Hall A, A191–A212
	HS10.2/GM8.2 , Estuarine processes (co-organized), in Hall A, A257–A269
	HS10.7 , Interactions between surface water, groundwater, and the hyporheic zone, in Hall A, A270–A295 Related: PSD16.9, see FR1
	HS10.8/BG4.4 , Environmental and anthropogenic change affecting catchments and groundwater-dependent ecosystems (co-organized), in Hall A, A296–A312
	NH8.1 , Heavy-metal contamination of the environment (co-listed), in Hall X/Y, XY215–XY236 Related: PSD19.28, see FR1
FR3 , 13:30–15:00	HS2.7 , Monitoring Strategies: temporal trends in groundwater and surface water quality and quantity, in Hall A, A81–A100
	HS2.8 , Observational hydrology: Recent development in isotope and other tracer methods, in Hall A, A101–A120
	HS3.1 , Hydroinformatics: computational intelligence and systems analysis, in Hall A, A159–A175
	HS7.5/NP8.3 , Hydroclimatic stochasticity (co-organized), in Hall A, A213–A226
	HS8.3.3 , Trace gases emissions from soils: Sources, mechanisms and process rates, in Hall A, A227–A241
	HS8.3.4 , The role of interfaces in flow and transport in porous media, in Hall A, A242–A256
	SSS8.1 , Ecology and Erosion (co-listed), in Hall X/Y, XY572–XY586
FR4 , 15:30–17:00	GM7.3/HS9.7/NH1.9 , Morphodynamics of steep mountain channels (co-organized), in Hall XL, XL140–XL160
	GM7.5/HS10.9 , Dynamic riverine landscapes: the role of ecosystem engineers (co-organized), in Hall XL, XL173–XL187