

HS – Hydrological Sciences (#EGU18HS) – Orals

Monday, 09 April

MO1 , 08:30–10:00	HS1.4 , Advances in Diagnostics, Sensitivity, and Uncertainty Analysis of Earth and Environmental Systems Models, 08:30–15:00, Room 2.44
	HS5.6 , Water Resources Management and Policy in a Changing World, 08:30–15:00, Room C
	HS8.2.1 , Groundwater resources in a changing environment, 08:30–15:00, Room B
	GM6.5/ERE2.4/HS5.16/NH1.23/SSS13.33 , Challenges and opportunities for sustainable soil conservation measures, torrent control works and sediment cascade management: from structure to basin scale (co-organized), 08:30–12:00, Room 0.96
	GI0.2/AS4.23/BG1.27/CL5.15/EMRP4.36/ERE1.8/G6.2/GD1.2/GM12.5/GMPV10.10/HS11.1/NH9.24/NP9.2/SM1.11/SSP1.3/SSS13.70/TS1.8 , COST Actions in Geosciences: breakthrough ideas, research activities and results (co-organized), 08:30–11:45, Room 0.49
	AS1.16/CL2.04/HS11.6 , Precipitation: Measurement, Climatology, Remote Sensing, and Modeling (co-organized), 08:30–17:00, Room 0.11
MO2 , 10:30–12:00	HS1.4 , Advances in Diagnostics, Sensitivity, and Uncertainty Analysis of Earth and Environmental Systems Models, 08:30–15:00, Room 2.44
	HS2.1.3 , Catchment Organisation, Similarity, and Evolution, 10:30–12:00, Room 2.15
	HS5.6 , Water Resources Management and Policy in a Changing World, 08:30–15:00, Room C
	HS6.3 , Water Level, Storage, Floods and Discharge from Remote Sensing and Assimilation in Hydrodynamic Models, 10:30–17:00, Room 2.95
	HS8.2.1 , Groundwater resources in a changing environment, 08:30–15:00, Room B
	IE4.1/NP4.3/AS5.13/CL5.18/ESSI2.3/GD10.6/HS3.7/NH11.14/SM7.03 , Big data and machine learning in geosciences (co-organized), 10:30–17:00, Room N2
	GM6.5/ERE2.4/HS5.16/NH1.23/SSS13.33 , Challenges and opportunities for sustainable soil conservation measures, torrent control works and sediment cascade management: from structure to basin scale (co-organized), 08:30–12:00, Room 0.96
	GI0.2/AS4.23/BG1.27/CL5.15/EMRP4.36/ERE1.8/G6.2/GD1.2/GM12.5/GMPV10.10/HS11.1/NH9.24/NP9.2/SM1.11/SSP1.3/SSS13.70/TS1.8 , COST Actions in Geosciences: breakthrough ideas, research activities and results (co-organized), 08:30–11:45, Room 0.49
AS1.16/CL2.04/HS11.6 , Precipitation: Measurement, Climatology, Remote Sensing, and Modeling (co-organized), 08:30–17:00, Room 0.11	
GDB2 , Hands on or hands off?, 10:30–12:00, Room E1	
MOL , 12:15–13:15	PCN2 , EGU Plenary, 12:15–13:15, Room E1
MO3 , 13:30–15:00	HS1.4 , Advances in Diagnostics, Sensitivity, and Uncertainty Analysis of Earth and Environmental Systems Models, 08:30–15:00, Room 2.44
	HS4.6/CL3.13 , From sub-seasonal forecasting to climate projections: predicting hydrologic extremes and servicing water managers (co-organized), 13:30–15:00, Room 2.15
	HS5.6 , Water Resources Management and Policy in a Changing World, 08:30–15:00, Room C
	HS6.3 , Water Level, Storage, Floods and Discharge from Remote Sensing and Assimilation in Hydrodynamic Models, 10:30–17:00, Room 2.95
	HS8.2.1 , Groundwater resources in a changing environment, 08:30–15:00, Room B

	IE4.1/NP4.3/AS5.13/CL5.18/ESSI2.3/GD10.6/HS3.7/NH11.14/SM7.03 , Big data and machine learning in geosciences (co-organized), 10:30–17:00, Room N2
	SSS2.1/GM3.9/HS9.10 , Connectivity in hydrology and sediment dynamics: concepts, measuring, modelling, indices and societal implications (co-organized), 13:30–15:00, Room -2.32
	AS1.16/CL2.04/HS11.6 , Precipitation: Measurement, Climatology, Remote Sensing, and Modeling (co-organized), 08:30–17:00, Room 0.11
	NH9.12/AS5.17/CL5.30/ESSI1.9/GI0.4/GMPV6.12/HS11.44/SM3.15/SSS13.66 , Methods and Tools for Natural Risk Management and Communications – Innovative ways of delivering information to end users and sharing data among the scientific community (co-organized), 13:30–15:00, Room L8
	SC1.20/HS12.3 , Hydroinformatics for Hydrology: extreme value modelling (co-organized), 13:30–15:00, Room -2.85
	US2 , The future of Earth and Planetary Observations from Space, 13:30–17:00, Room E1
MO4 , 15:30–17:00	HS1.3 , Hydrologic Dynamics, Analytics and Predictability: Physical and Data-based Approaches for Improving Hydrologic Understanding and Prediction, 15:30–17:00, Room C
	HS4.3/AS1.10/NH1.13 , Ensemble hydro-meteorological forecasting and predictive uncertainty estimation (co-organized), 15:30–17:00, Room 2.15
	HS5.5 , Assessment and interpretation of state and trends in water quality, 15:30–17:00, Room 2.44
	HS6.3 , Water Level, Storage, Floods and Discharge from Remote Sensing and Assimilation in Hydrodynamic Models, 10:30–17:00, Room 2.95
	HS8.2.3/ERE6.4 , Thermal and mechanical processes and energy storage in porous and fractured aquifers (co-organized), 15:30–17:00, Room B
	IE4.1/NP4.3/AS5.13/CL5.18/ESSI2.3/GD10.6/HS3.7/NH11.14/SM7.03 , Big data and machine learning in geosciences (co-organized), 10:30–17:00, Room N2
	AS1.16/CL2.04/HS11.6 , Precipitation: Measurement, Climatology, Remote Sensing, and Modeling (co-organized), 08:30–17:00, Room 0.11
	GM2.3/CR2.6/GI3.15/GMPV10.3/HS11.18/NH4.6/SM1.04/SSS13.22 , Environmental Seismology: Deciphering Earth's surface processes with seismic methods (co-organized), 15:30–17:00, Room 0.31
	NH9.11/GMPV6.11/HS11.43/SM3.19/SSS13.63 , Risk Management and risk hedging with examples from natural catastrophic events (co-organized), 15:30–17:00, Room L8
	US2 , The future of Earth and Planetary Observations from Space, 13:30–17:00, Room E1
Tuesday, 10 April	
TU1 , 08:30–10:00	HS2.3.5 , Water quality at the catchment scale: measuring and modelling of nutrients, sediment and eutrophication impacts, 08:30–12:00, Room 2.95
	HS3.1 , Hydroinformatics: computational intelligence, systems analysis, optimisation, data science, 08:30–12:00, Room 2.44
	HS4.1/AS4.27/GM8.7/NH1.11 , Flash floods and associated hydro-geomorphic processes: observation, modelling and warning (co-organized), 08:30–10:00, Room B
	HS5.2 , Water resources - assessment, management, and allocation - in (semi-)arid regions, 08:30–10:00, Room C

	HS6.4 , Remote sensing of soil moisture, 08:30–12:00, Room 2.15
	SSS7.1/HS8.3.9 , Interactions and feedbacks between soil structure and biogeochemical processes in micro-aggregates and beyond (co-organized), 08:30–12:00, Room -2.20
	NH9.6/GMPV6.8/HS11.38/SM3.20 , Resilience and vulnerability assessments in natural hazards and risk analysis (co-organized), 08:30–10:00, Room L7
TU1b , 09:00–10:00	US1 , Past achievements and future challenges for the Geosciences (co-sponsored by AGU), 09:00–12:00, Room E1
TU2 , 10:30–12:00	HS2.3.5 , Water quality at the catchment scale: measuring and modelling of nutrients, sediment and eutrophication impacts, 08:30–12:00, Room 2.95
	HS3.1 , Hydroinformatics: computational intelligence, systems analysis, optimisation, data science, 08:30–12:00, Room 2.44
	HS6.4 , Remote sensing of soil moisture, 08:30–12:00, Room 2.15
	HS7.5 , Hydroclimatic extremes under change: advancing the science and implementation in hazard prevention and control, 10:30–17:00, Room B
	HS8.1.1 , General session, from pore to field scale: classical and stochastic approaches., 10:30–12:00, Room 2.20
	SSS7.1/HS8.3.9 , Interactions and feedbacks between soil structure and biogeochemical processes in micro-aggregates and beyond (co-organized), 08:30–12:00, Room -2.20
	NH9.7/CL3.12/HS11.39 , Urban Resilience Studies (co-organized), 10:30–12:00, Room L8
	US1 , Past achievements and future challenges for the Geosciences (co-sponsored by AGU), 09:00–12:00, Room E1
TUL , 12:15–13:15	SC3.15/HS12.1 , Meet the expert in Hydrology: bridging the gap between hydrological science and practice (co-organized), 12:15–13:15, Room -2.91
TU3 , 13:30–15:00	HS2.1.4 , Evapotranspiration: from measurement to modelling and application in catchment hydrology, 13:30–15:00, Room 2.95
	HS2.3.3 , Isotope and tracer methods: flow paths characterization, catchment response and transformation processes, 13:30–17:00, Room L2
	HS3.2 , Spatio-temporal and/or geostatistical analysis of hydrological events, extremes, and related hazards, 13:30–15:00, Room 2.44
	HS6.2 , Assimilation of hydrological and phenological remote sensing and in situ data, 13:30–17:00, Room 2.15
	HS7.5 , Hydroclimatic extremes under change: advancing the science and implementation in hazard prevention and control, 10:30–17:00, Room B
	IE3.3/GM2.2/CR2.5/GI3.13/GMPV10.4/HS6.9/NH6.10/SSS13.21 , High Resolution Topography in the Geosciences: Methods and Applications (co-sponsored by JpGU) (co-organized), 13:30–17:00, Room N2
	SSS7.3/HS8.3.11 , Soil water Infiltration. Measurements, assessment and modeling (co-organized), 13:30–17:00, Room -2.20
	GM1.2/BG4.5/HS11.15/SSS13.17/TS1.4 , Beyond the case study: The essential role of concepts and history in Earth Sciences (co-organized), 13:30–15:00, Room G2
	NH9.9/AS5.20/GI1.9/HS11.41/SSS13.64 , Monitoring and modelling of dangerous phenomena: innovative, low-cost techniques, tools and constraint of engineering-geological models for hazard evaluation and risk mitigation (co-organized), 13:30–15:00, Room L8
GDB4 , Low-risk geo-engineering: are techniques available now?, 13:30–15:00, Room E1	

TU4 , 15:30–17:00	HS2.3.3 , Isotope and tracer methods: flow paths characterization, catchment response and transformation processes, 13:30–17:00, Room L2
	HS3.3 , Innovative sensing techniques for water monitoring, modelling, and management: Satellite, gauges, and citizens, 15:30–17:00, Room 2.44
	HS5.4 , Nature Based Solutions for hydrological extremes and water resource management, 15:30–17:00, Room 2.95
	HS6.2 , Assimilation of hydrological and phenological remote sensing and in situ data, 13:30–17:00, Room 2.15
	HS7.5 , Hydroclimatic extremes under change: advancing the science and implementation in hazard prevention and control, 10:30–17:00, Room B
	IE3.3/GM2.2/CR2.5/GI3.13/GMPV10.4/HS6.9/NH6.10/SSS13.21 , High Resolution Topography in the Geosciences: Methods and Applications (co-sponsored by JpGU) (co-organized), 13:30–17:00, Room N2
	SSS7.3/HS8.3.11 , Soil water Infiltration. Measurements, assessment and modeling (co-organized), 13:30–17:00, Room -2.20
	G3.2/CR2.9/GD10.8/HS11.9/OS4.13 , Geophysical Signal Separation in Global Geodesy (including G Division Outstanding ECS Lecture) (co-organized), 15:30–17:00, Room G1
TU6 , 19:00–20:00	ML18/HS , John Dalton Medal Lecture by Gabriel G. Katul (co-organized), 19:00–20:00, Room B
TU6a , 19:00–20:30	GDB3 , The Early Career Scientists' Great Debate: Should early career scientists use time developing transferrable skills?, 19:00–20:30, Room E1
Wednesday, 11 April	
WE1 , 08:30–10:00	HS2.1.6 , Process understanding in models - Improving hydrologic realism and reducing model weaknesses, 08:30–12:00, Room B
	HS2.3.6 , Micropollutants and pathogens in the soil-groundwater-river continuum: modeling and monitoring, 08:30–10:00, Room 2.15
	HS4.4 , Drought and water scarcity: monitoring, modelling and forecasting to improve hydro-meteorological risk management, 08:30–12:00, Room 2.44
	HS5.8 , Hydropower and other renewable energy sources: Integration and Planning amid the Water-Energy Nexus, 08:30–10:00, Room 2.95
	HS8.2.4 , Groundwater flow understanding in water management: Environmental problems and potential interactions with subsurface water ecosystems, 08:30–15:00, Room C
	EOS16/HS1.14 , Innovation in Geoscience, Hydrology and Engineering Education (co-organized), 08:30–10:00, Room -2.85
	SSS7.2/HS8.3.10 , Preferential flow and mass transfers in soils and porous fractured media (co-organized), 08:30–09:45, Room -2.20
	G3.2/CR2.9/GD10.8/HS11.9/OS4.13 , Geophysical Signal Separation in Global Geodesy (including G Division Outstanding ECS Lecture) (co-organized), 08:30–10:00, Room -2.32
	GM5.4/CL4.32/HS11.21/SSP4.6/SSS13.26 , Drylands: paleoenvironmental and geomorphic perspectives and challenges (co-organized), 08:30–10:00, Room G2
	NH1.9/HS11.31 , Flood Risk Assessment and Management (co-organized), 08:30–12:00, Room L8
	NH9.10/GMPV6.10/HS11.42/SM3.16/SSS13.62 , Global and continental scale risk assessment for natural hazards: methods and practice (including Plinius Medal Lecture) (including NH Division Outstanding ECS Lecture) (co-organized), 08:30–12:00, Room L6
SSS3.5/GM3.10/HS11.51 , Assessing the Critical Zone functioning and reconstructing its evolution, based on soils and sediments, interpreting the	

	geochemical composition of soils and sediments with respect to provenance, palaeoenvironments and pollution (co-organized), 08:30–15:00, Room K2
	US4 , Fifty years of International Ocean Drilling, 08:30–12:00, Room E1
WE2 , 10:30–12:00	HS2.1.2 , Large scale hydrology, 10:30–12:00, Room 2.15
	HS2.1.6 , Process understanding in models - Improving hydrologic realism and reducing model weaknesses, 08:30–12:00, Room B
	HS4.4 , Drought and water scarcity: monitoring, modelling and forecasting to improve hydro-meteorological risk management, 08:30–12:00, Room 2.44
	HS5.7/ERE3.8 , Advances in modeling and control of environmental systems: from drainage and irrigation to hybrid energy generation. (co-organized), 10:30–12:00, Room 2.95
	HS8.2.4 , Groundwater flow understanding in water management: Environmental problems and potential interactions with subsurface water ecosystems, 08:30–15:00, Room C
	SSS7.4/HS8.3.12 , Challenges in soil physics research (co-organized), 10:30–12:00, Room -2.20
	CL3.03/AS4.12/BG4.13/HS11.8/NH11.15/NP5.5/SSS13.13 , Earth System Prediction and Application (co-organized), 10:30–12:00, Room 0.94
	NH1.9/HS11.31 , Flood Risk Assessment and Management (co-organized), 08:30–12:00, Room L8
	NH9.10/GMPV6.10/HS11.42/SM3.16/SSS13.62 , Global and continental scale risk assessment for natural hazards: methods and practice (including Plinius Medal Lecture) (including NH Division Outstanding ECS Lecture) (co-organized), 08:30–12:00, Room L6
	SSS3.5/GM3.10/HS11.51 , Assessing the Critical Zone functioning and reconstructing its evolution, based on soils and sediments, interpreting the geochemical composition of soils and sediments with respect to provenance, palaeoenvironments and pollution (co-organized), 08:30–15:00, Room K2
	SC1.19/HS12.4 , Using R in Hydrology (co-organized), 10:30–12:00, Room -2.16
	US4 , Fifty years of International Ocean Drilling, 08:30–12:00, Room E1
WEL , 12:15–13:15	DM13/HS , Division meeting for Hydrological Sciences (HS) (co-organized), 12:15–13:15, Room B
WE3 , 13:30–15:00	HS2.2.4 , Changes in the Mediterranean hydrology: observation and modeling, 13:30–15:00, Room 2.44
	HS5.14 , Water Infrastructure Risks and Cascade Reservoir Operations, 13:30–17:00, Room 2.95
	HS6.6 , The Third Pole Environment - hydrometeorological processes and ancient human activity, 13:30–17:00, Room 2.15
	HS7.1/AS1.18/NP3.3 , Precipitation measurement: techniques, processes and hydrological applications at the catchment scale (co-organized), 13:30–17:00, Room B
	HS8.2.4 , Groundwater flow understanding in water management: Environmental problems and potential interactions with subsurface water ecosystems, 08:30–15:00, Room C
	NP5.3/AS1.5/HS4.8 , Advances in statistical post-processing for deterministic and ensemble forecasts (co-organized), 13:30–15:00, Room 0.49

	NH1.6/AS4.14/HS11.30 , Coupled atmosphere-hydrological modeling for improved hydro-meteorological predictions (co-organized), 13:30–15:00, Room L8
	SSS3.5/GM3.10/HS11.51 , Assessing the Critical Zone functioning and reconstructing its evolution, based on soils and sediments, interpreting the geochemical composition of soils and sediments with respect to provenance, palaeoenvironments and pollution (co-organized), 08:30–15:00, Room K2
	SC1.18/CL6.02/GM12.3/HS12.5/NH10.4/TS11.13 , Building and maintaining R packages (co-organized), 13:30–15:00, Room -2.16
WE4 , 15:30–17:00	HS1.10 , Large-sample hydrology: characterising and understanding hydrological diversity, 15:30–17:00, Room 2.31
	HS1.17 , Towards Global Integrated Hydrology Simulations: Perspectives and Advances in Terrestrial Modeling (including Arne Richter Award Lecture), 15:30–17:00, Room C
	HS5.14 , Water Infrastructure Risks and Cascade Reservoir Operations, 13:30–17:00, Room 2.95
	HS6.6 , The Third Pole Environment - hydrometeorological processes and ancient human activity, 13:30–17:00, Room 2.15
	HS7.1/AS1.18/NP3.3 , Precipitation measurement: techniques, processes and hydrological applications at the catchment scale (co-organized), 13:30–17:00, Room B
	HS8.2.2 , Fissured and karstified aquifers, 15:30–17:00, Room 2.44
	ML5/HS , Arne Richter Award for Outstanding ECS Lecture by Yoshihide Wada (co-organized), 15:30–16:00, Room C
	G4.2/HS11.10 , High accuracy terrestrial gravity observations in the time varying gravity field (co-organized), 15:30–17:00, Room -2.32
WE5 , 17:30–19:00	PCN3 , EGU Award Ceremony, 17:30–20:00, Room E1
WE6 , 19:00–20:00	PCN3 , EGU Award Ceremony, 17:30–20:00, Room E1
Thursday, 12 April	
TH1 , 08:30–10:00	HS2.3.4 , Controls on water storage, mixing and release dynamics across multiple spatial and temporal scales : open challenges, new experimental approaches and modelling avenues, 08:30–12:00, Room 2.31
	HS2.4.1 , Hydrological change: Regional hydrological behaviour under transient climate and land use conditions, 08:30–12:00, Room C
	HS5.3 , Advances in socio-hydrology, 08:30–10:00, Room 2.95
	HS7.2/AS1.17/CL2.06/NH1.17/NP5.4 , Precipitation Modelling: uncertainty, variability, assimilation, ensemble simulation and downscaling (co-organized), 08:30–15:00, Room B
	HS8.1.6 , New advances towards understanding of subsurface processes coupling fluid dynamics, solute transport, geochemical reactions and biological activity, 08:30–12:00, Room 2.44
	HS10.10 , Groundwater - Surface Water interactions: biogeochemical and ecological processes, 08:30–10:00, Room 2.15
	GI1.2/AS4.21/BG1.31/EMRP4.4/ERE5.6/HS11.11/NH8.8/OS4.11/SSS13.16 , Geoscience processes related to Fukushima and Chernobyl nuclear accidents (co-organized), 08:30–12:00, Room 0.49
	NH6.1/AS5.21/CR7.3/GI2.17/HS11.33/SM3.12/SSS13.54 , Application of remote sensing and Earth-observation data in natural hazard and risk

	studies (co-organized), 08:30–15:00, Room L6
	SSS9.8/BG2.44/GM5.6/HS11.53 , Coevolution of soils, landforms and vegetation: patterns, feedbacks and ecosystem stability thresholds (co-organized), 08:30–10:00, Room -2.20
	US3 , Cassini and future perspectives for the exploration of the outer solar system, 08:30–12:00, Room E1
TH2, 10:30–12:00	HS2.3.4 , Controls on water storage, mixing and release dynamics across multiple spatial and temporal scales : open challenges, new experimental approaches and modelling avenues, 08:30–12:00, Room 2.31
	HS2.4.1 , Hydrological change: Regional hydrological behaviour under transient climate and land use conditions, 08:30–12:00, Room C
	HS7.2/AS1.17/CL2.06/NH1.17/NP5.4 , Precipitation Modelling: uncertainty, variability, assimilation, ensemble simulation and downscaling (co-organized), 08:30–15:00, Room B
	HS8.1.6 , New advances towards understanding of subsurface processes coupling fluid dynamics, solute transport, geochemical reactions and biological activity, 08:30–12:00, Room 2.44
	HS9.3/GM8.8/SSS13.36 , Techniques for quantifying fine sediment dynamics in river catchments (co-organized), 10:30–12:00, Room 2.95
	HS10.7 , Peatland Hydrology, 10:30–12:00, Room 2.15
	GI1.2/AS4.21/BG1.31/EMRP4.4/ERE5.6/HS11.11/NH8.8/OS4.11/SSS13.16 , Geoscience processes related to Fukushima and Chernobyl nuclear accidents (co-organized), 08:30–12:00, Room 0.49
	NH6.1/AS5.21/CR7.3/GI2.17/HS11.33/SM3.12/SSS13.54 , Application of remote sensing and Earth-observation data in natural hazard and risk studies (co-organized), 08:30–15:00, Room L6
	US3 , Cassini and future perspectives for the exploration of the outer solar system, 08:30–12:00, Room E1
TH3, 13:30–15:00	HS1.8 , History of Hydrology, 13:30–17:00, Room C
	HS2.3.9 , Measuring and modelling surface water – groundwater interactions, 13:30–15:00, Room 2.31
	HS7.2/AS1.17/CL2.06/NH1.17/NP5.4 , Precipitation Modelling: uncertainty, variability, assimilation, ensemble simulation and downscaling (co-organized), 08:30–15:00, Room B
	HS8.1.4 , Subsurface flow and solute transport: Concepts, modelling, observations and applications of dispersion, mixing and reactive transport in heterogeneous media., 13:30–17:00, Room 2.44
	HS9.4/SSS13.38 , Transfer of sediments and contaminants in catchments, rivers systems and lakes (co-organized), 13:30–15:00, Room 2.95
	HS10.9/BG7.4/GM8.6 , Linking river ecology, hydrology, geomorphology and biogeochemistry to understand stressor responses (co-organized), 13:30–15:00, Room 2.15
	GM11.2/BG7.8/HS9.13/OS2.8/SSP3.15 , Rivers, Deltas and Their Receiving Basins: Measurements, Modelling and Management (co-organized), 13:30–15:00, Room G2
	GI3.5/EMRP4.11/HS11.14/NH11.12 , Innovative instrumentations, techniques, geophysical methods and models for near surface geophysics, cities and transport infrastructures (including GI Division Outstanding ECS Lecture) (co-organized), 13:30–17:00, Room 0.49
	GM1.5/HS11.17/NH1.22/SSP3.18 , The importance of granular processes and segregation in geophysical flows: implications for landscape evolution

	and hazard analysis (co-organized), 13:30–15:00, Room D1
	NH1.1/AS4.24/HS11.26 , Extreme meteorological and hydrological events induced by severe weather and climate change (co-organized), 13:30–17:00, Room L4/5
	NH6.1/AS5.21/CR7.3/GI2.17/HS11.33/SM3.12/SSS13.54 , Application of remote sensing and Earth-observation data in natural hazard and risk studies (co-organized), 08:30–15:00, Room L6
	SSP3.12/BG6.2/GMPV3.10/HS11.47 , Sedimentary and diagenetic minerals: nucleation, growth mechanisms, and reactions that build Earth's geological archive (co-organized), 13:30–17:00, Room 0.31
	GDB5 , Natural versus anthropogenic threats for life on Earth, 13:30–15:00, Room E1
TH4, 15:30–17:00	HS1.8 , History of Hydrology, 13:30–17:00, Room C
	HS2.3.1 , Innovative sensing techniques and data analysis approaches to increase hydrological process understanding, 15:30–17:00, Room 2.31
	HS2.4.2/AS4.13 , Challenges understanding the links between hydrological variability and large-scale climate variations in a changing climate and environment (co-organized), 15:30–17:00, Room B
	HS8.1.4 , Subsurface flow and solute transport: Concepts, modelling, observations and applications of dispersion, mixing and reactive transport in heterogeneous media., 13:30–17:00, Room 2.44
	HS9.8/GM3.7/SSS13.39 , Extreme Erosion Processes, Hydrological Drivers and Connectivity (co-organized), 15:30–17:00, Room 2.95
	HS10.2/GM11.7/OS2.6 , Integrative studies of the River-Sea-Continuum (co-organized), 15:30–17:00, Room 2.15
	GI3.5/EMRP4.11/HS11.14/NH11.12 , Innovative instrumentations, techniques, geophysical methods and models for near surface geophysics, cities and transport infrastructures (including GI Division Outstanding ECS Lecture) (co-organized), 13:30–17:00, Room 0.49
	NH1.1/AS4.24/HS11.26 , Extreme meteorological and hydrological events induced by severe weather and climate change (co-organized), 13:30–17:00, Room L4/5
	SSP3.12/BG6.2/GMPV3.10/HS11.47 , Sedimentary and diagenetic minerals: nucleation, growth mechanisms, and reactions that build Earth's geological archive (co-organized), 13:30–17:00, Room 0.31
TH6, 19:00–20:00	ML15/HS , Henry Darcy Medal Lecture by Alberto Montanari (co-organized), 19:00–20:00, Room B
Friday, 13 April	
FR1, 08:30–10:00	HS2.1.1 , Hydrological extremes: from droughts to floods, 08:30–17:00, Room C
	HS7.4 , Naturally trendy: natural (and non-natural) trends (and non-trends) in climate and hydrology, 08:30–12:00, Room B
	HS8.1.7/ERE6.5 , Reactive transport, mineral dissolution and precipitation in fractured and porous rock: experiments, models and field observations (co-organized), 08:30–10:00, Room 2.31
	HS8.3.1 , Vadose zone hydrology: General Session, 08:30–10:00, Room 2.95
	HS9.7/GM3.13 , Investigation of sediment transport processes due to geophysical flows (co-organized), 08:30–10:00, Room 2.44
	HS10.5/BG2.1/SSS13.40 , Stable isotopes to study water dynamics in the soil-plant-atmosphere continuum (co-organized), 08:30–10:00, Room 2.15

	CL1.06/GM8.12/HS1.19 , Tackling past hydrological cycles - from local and regional to global scales (co-organized), 08:30–10:00, Room F2
	NH3.1/HS2.3.10 , Landslide hydrology: from hydrology to pore water pressure and slope deformation (co-organized), 08:30–10:00, Room L7
	GM8.1/HS9.15/SSP3.22 , Fluvial Systems: Dynamics and Interactions Across Scales (co-organized), 08:30–15:00, Room 0.96
	NH8.2/GM7.5/HS11.35/SSS13.42 , Speleogenesis, Geomorphology and Hazards in Karst (co-organized), 08:30–12:00, Room L8
	SC3.6/HS12.2 , How to write (and publish) a scientific paper in Hydrology (co-organized), 08:30–10:00, Room -2.16
	US5 , Scientific research in a changing European Union: where we stand and what we aim for?, 08:30–10:00, Room E1
FR2, 10:30–12:00	HS2.1.1 , Hydrological extremes: from droughts to floods, 08:30–17:00, Room C
	HS2.2.1/CR3.7 , Snow hydrology: Monitoring and modeling of snow (co-organized), 10:30–17:00, Room 2.95
	HS7.4 , Naturally trendy: natural (and non-natural) trends (and non-trends) in climate and hydrology, 08:30–12:00, Room B
	HS8.1.5 , Fate and transport of biocolloids and nanoparticles in soil and groundwater systems, 10:30–12:00, Room 2.31
	HS9.1/GM8.10 , Measurements, monitoring and numerical modelling of sedimentary and hydro-morphological processes in open-water environments (co-organized), 10:30–17:00, Room 2.44
	HS10.3 , General Ecohydrology, 10:30–17:00, Room 2.15
	GM8.1/HS9.15/SSP3.22 , Fluvial Systems: Dynamics and Interactions Across Scales (co-organized), 08:30–15:00, Room 0.96
	NH1.3/HS11.27 , Flood risk and uncertainty (co-organized), 10:30–12:00, Room L7
	NH8.2/GM7.5/HS11.35/SSS13.42 , Speleogenesis, Geomorphology and Hazards in Karst (co-organized), 08:30–12:00, Room L8
FR3, 13:30–15:00	HS2.1.1 , Hydrological extremes: from droughts to floods, 08:30–17:00, Room C
	HS2.2.1/CR3.7 , Snow hydrology: Monitoring and modeling of snow (co-organized), 10:30–17:00, Room 2.95
	HS8.3.4/SSS13.81 , Soil-Root Interactions (co-organized), 13:30–17:00, Room 1.61
	HS9.1/GM8.10 , Measurements, monitoring and numerical modelling of sedimentary and hydro-morphological processes in open-water environments (co-organized), 10:30–17:00, Room 2.44
	HS10.1 , Lakes and inland seas in a changing environment, 13:30–15:00, Room 2.31
	HS10.3 , General Ecohydrology, 10:30–17:00, Room 2.15
	AS5.10/BG1.13/CL5.08/HS3.6/OS1.18 , High resolution weather and climate models on large supercomputers (co-organized), 13:30–17:00, Room 0.94
	NH8.1/HS5.13/SSS13.60 , Arsenic and other contaminants in soil and groundwater: interventions for source control and regulatory compliance (co-organized), 13:30–15:00, Room L8
	GM8.1/HS9.15/SSP3.22 , Fluvial Systems: Dynamics and Interactions Across Scales (co-organized), 08:30–15:00, Room 0.96
	GI2.7/AS4.16/CL5.23/EMRP4.8/HS11.13/PS4.7 , Cosmic rays across scales and disciplines: the new frontier in environmental research (co-organized), 13:30–17:00, Room L3

FR4, 15:30–17:00	HS2.1.1 , Hydrological extremes: from droughts to floods, 08:30–17:00, Room C
	HS2.2.1/CR3.7 , Snow hydrology: Monitoring and modeling of snow (co-organized), 10:30–17:00, Room 2.95
	HS8.3.4/SSS13.81 , Soil-Root Interactions (co-organized), 13:30–17:00, Room 1.61
	HS9.1/GM8.10 , Measurements, monitoring and numerical modelling of sedimentary and hydro-morphological processes in open-water environments (co-organized), 10:30–17:00, Room 2.44
	HS10.3 , General Ecohydrology, 10:30–17:00, Room 2.15
	AS5.10/BG1.13/CL5.08/HS3.6/OS1.18 , High resolution weather and climate models on large supercomputers (co-organized), 13:30–17:00, Room 0.94
	GM8.4/HS9.14 , Sediment transport and channel morphology in mountain rivers (co-organized), 15:30–17:00, Room 0.96
	GI2.7/AS4.16/CL5.23/EMRP4.8/HS11.13/PS4.7 , Cosmic rays across scales and disciplines: the new frontier in environmental research (co-organized), 13:30–17:00, Room L3
	NH5.4/AS4.29/CL3.10/HS11.32/OS2.11 , Natural Hazards and climate change impacts in coastal areas (co-organized), 15:30–17:00, Room L4/5

HS – Hydrological Sciences (#EGU18HS) – PICO

Monday, 09 April

MO1 , 08:30–10:00	HS2.2.2/CR5.8 , Water flow paths, supply and quality in a changing cryosphere (co-organized), PICO spot A
MO2 , 10:30–12:00	HS2.2.2/CR5.8 , Water flow paths, supply and quality in a changing cryosphere (co-organized), PICO spot A
	GI3.8/AS5.16/HS6.10/SSS13.14 , Thermal LWIR and MWIR, broadband - multi/hyperspectral, proximal and remote sensing: algorithms for environmental studies, retrieval of geophysical variables and monitoring infrastructures (co-organized), PICO spot 1
	NH1.5/AS4.28/HS11.29/SSS10.7 , Hazard Risk Management of Agroecosystems (co-organized), PICO spot 4
	SSS2.4/HS11.50 , Initial soil erosion – Rain splash and interrill erosion processes (co-organized), PICO spot 3
MO3 , 13:30–15:00	HS1.2 , Hydrology, society and environmental change, PICO spot 5b
	CR3.5/HS2.2.5 , Advances in measuring and modelling of snow and ice-covered mountainous terrain and in ski resorts (co-organized), PICO spot 4
	CL5.02/AS5.7/BG1.38/GD10.9/GI0.5/GM2.10/GMPV10.9/HS11.25/NH11.1/NP9.4/OS4.14/PS6.4/SM7.04/SSP1.12/SSS13.12/ST4.8/TS11.9 , The development of geoscientific modelling (co-organized), PICO spot 5a
MO4 , 15:30–17:00	HS1.2 , Hydrology, society and environmental change, PICO spot 5b
	IE3.4/TS11.7/GD10.3/GI3.17/GM2.13/GMPV10.7/HS11.3/NH6.4/SSP1.8 , Imaging techniques in laboratory modelling of geological processes (co-organized), PICO spot 4
	CL5.02/AS5.7/BG1.38/GD10.9/GI0.5/GM2.10/GMPV10.9/HS11.25/NH11.1/NP9.4/OS4.14/PS6.4/SM7.04/SSP1.12/SSS13.12/ST4.8/TS11.9 , The development of geoscientific modelling (co-organized), PICO spot 5a

Tuesday, 10 April

TU1 , 08:30–10:00	HS1.6 , Recent advancement in estimating global, continental and regional scale water balance components, PICO spot A
	HS2.2.3 , Lowlands: A hydrologic challenge in the global environmental change era, PICO spot 5b
TU2 , 10:30–12:00	HS5.1 , Hydrology & Society: Transdisciplinary approaches to hydrology and water resources management, PICO spot A
TU3 , 13:30–15:00	HS4.5/NH1.14 , Operational forecasting and warning systems for natural hazards: challenges and innovation (co-organized), PICO spot A
	HS5.9 , Advances in Water Footprint Assessment and applications, PICO spot 5b
	GM11.5/HS10.11/NH8.6/OS2.9 , Combination hazard in estuaries and coasts (co-organized), PICO spot 1
TU4 , 15:30–17:00	HS4.5/NH1.14 , Operational forecasting and warning systems for natural hazards: challenges and innovation (co-organized), PICO spot A
	IE3.2/NH6.3/CR2.10/EMRP4.34/GI2.10/GM2.15/GMPV5.5/HS11.54/SSS13.75 , The use of Remotely Piloted Aircraft Systems (RPAS) in monitoring applications and management of natural hazards (co-organized), PICO spot 4

Wednesday, 11 April

WE1 , 08:30–10:00	HS7.3/CL2.19/ERE2.5/NH1.16/NP9.1 , Water, climate, food and health (co-organized), PICO spot 5b
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	IE4.4/GM2.8/AS5.8/BG1.17/CL5.28/GD10.10/GMPV10.5/HS3.5/SSS13.77/TS11.12 , R and the benefit of low-cost solutions - democratic participation to face challenges in Earth science (co-organized), PICO spot 4
WE2 , 10:30–12:00	HS7.3/CL2.19/ERE2.5/NH1.16/NP9.1 , Water, climate, food and health (co-organized), PICO spot 5b
	IE4.4/GM2.8/AS5.8/BG1.17/CL5.28/GD10.10/GMPV10.5/HS3.5/SSS13.77/TS11.12 , R and the benefit of low-cost solutions - democratic participation to face challenges in Earth science (co-organized), PICO spot 4
	NH9.5/GMPV6.7/HS11.37/SM3.18/SSS13.61 , Single and multi-hazard risk assessment and mitigation in developing countries: Challenges and opportunities for innovation (co-organized), PICO spot 1
WE3 , 13:30–15:00	HS2.4.3/NH1.25 , River flood dynamics and risk: processes, controls, consequences (co-organized), PICO spot A
	SSP3.6/AS4.19/GM3.11/GMPV6.2/HS9.11/NH2.3/OS2.7 , Bedform dynamics and morphodynamics: from pyroclastic eruptions to deep see turbidites (co-organized), PICO spot 1
WE4 , 15:30–17:00	HS2.3.2 , Frontiers in river flow monitoring: hydrologic extremes, complex flows, unstable sites, uncertainties, PICO spot A
	HS8.1.2 , Hydrogeophysics for the critical zone, PICO spot 5b
	SSP3.6/AS4.19/GM3.11/GMPV6.2/HS9.11/NH2.3/OS2.7 , Bedform dynamics and morphodynamics: from pyroclastic eruptions to deep see turbidites (co-organized), PICO spot 1

Thursday, 12 April

TH1 , 08:30–10:00	GI3.4/BG7.5/HS11.13/NH1.21 , Instrumentation & measurements for water systems (co-organized), PICO spot 1
TH2 , 10:30–12:00	HS1.18 , Physical and biogeochemical impacts of urbanization on hydrological systems, PICO spot 5b
TH3 , 13:30–15:00	HS1.12 , Hydro(mythology) - what do we know & what do we just believe, PICO spot A
	HS6.5/BG1.21 , Remote sensing of interactions between vegetation and hydrology (co-organized), PICO spot 5b
	IE4.3/SSS13.73/AS5.19/BG1.20/ESSI1.8/HS11.4/NH11.13 , Geostatistical and statistical tools to perform the data fusion of large datasets in geo-engineering and environmental studies (co-organized), PICO spot 4
TH4 , 15:30–17:00	HS5.11 , Urban Water Systems Analysis, Modelling, and Management, PICO spot A
	HS7.7/NH1.18 , Hydrometeorologic variability: spatio-temporal scales and probability of extremes (co-organized), PICO spot 5b

Friday, 13 April

FR1 , 08:30–10:00	HS7.9/AS4.4 , The atmospheric water cycle: feedbacks, management, land-use and climate change (co-organized), PICO spot 5b
	SSS10.3/HS9.12/NH7.3 , Understanding, predicting and preventing post-fire hydrologic and erosive risks in fire-affected areas. (co-organized), PICO spot 3
FR2 , 10:30–12:00	HS8.3.2 , Hydrology of (semi-)arid regions, PICO spot 5b
	BG2.24/HS10.13 , Climate and hydrological factors influencing resilience of forests (co-organized), PICO spot A
FR3 , 13:30–15:00	HS1.16 , Future of (hydrological) publishing, PICO spot A

HS – Hydrological Sciences (#EGU18HS) – Posters

Monday, 09 April

MO5 , 17:30–19:00	HS1.1 , The MacGyver session (poster-only session), Hall A, A.1–A.12
	HS1.3 , Hydrologic Dynamics, Analytics and Predictability: Physical and Data-based Approaches for Improving Hydrologic Understanding and Prediction, Hall A, A.13–A.32
	HS1.4 , Advances in Diagnostics, Sensitivity, and Uncertainty Analysis of Earth and Environmental Systems Models, Hall A, A.33–A.54
	HS2.1.3 , Catchment Organisation, Similarity, and Evolution, Hall A, A.55–A.71
	HS3.4/AS5.12/BG1.42/CL5.16 , Challenges and advances in using High-Performance Computing for Terrestrial Systems Modelling (co-organized), Hall A, A.72–A.82
	HS4.3/AS1.10/NH1.13 , Ensemble hydro-meteorological forecasting and predictive uncertainty estimation (co-organized), Hall A, A.83–A.105
	HS4.6/CL3.13 , From sub-seasonal forecasting to climate projections: predicting hydrologic extremes and servicing water managers (co-organized), Hall A, A.106–A.127
	HS5.5 , Assessment and interpretation of state and trends in water quality, Hall A, A.128–A.145
	HS5.6 , Water Resources Management and Policy in a Changing World, Hall A, A.146–A.187
	HS6.3 , Water Level, Storage, Floods and Discharge from Remote Sensing and Assimilation in Hydrodynamic Models, Hall A, A.188–A.208
	HS8.2.1 , Groundwater resources in a changing environment, Hall A, A.209–A.241
	HS8.2.3/ERE6.4 , Thermal and mechanical processes and energy storage in porous and fractured aquifers (co-organized), Hall A, A.242–A.256
	HS8.2.6 , Estimation and application of groundwater ages and mean residence times, Hall A, A.257–A.269
	IE4.1/NP4.3/AS5.13/CL5.18/ESSI2.3/GD10.6/HS3.7/NH11.14/SM7.03 , Big data and machine learning in geosciences (co-organized), Hall X3, X3.44–X3.75
	GM6.5/ERE2.4/HS5.16/NH1.23/SSS13.33 , Challenges and opportunities for sustainable soil conservation measures, torrent control works and sediment cascade management: from structure to basin scale (co-organized), Hall X2, X2.1–X2.17
	SSS2.1/GM3.9/HS9.10 , Connectivity in hydrology and sediment dynamics: concepts, measuring, modelling, indices and societal implications (co-organized), Hall X3, X3.136–X3.152
GI0.2/AS4.23/BG1.27/CL5.15/EMRP4.36/ERE1.8/G6.2/GD1.2/GM12.5/GMPV10.10/HS11.1/NH9.24/NP9.2/SM1.11/SSP1.3/SSS13.70/TS1.8 , COST Actions in Geosciences: breakthrough ideas, research activities and results (co-organized), Hall X1, X1.1–X1.28	
AS1.16/CL2.04/HS11.6 , Precipitation: Measurement, Climatology, Remote Sensing, and Modeling (co-organized), Hall X5, X5.39–X5.86	
GM2.3/CR2.6/GI3.15/GMPV10.3/HS11.18/NH4.6/SM1.04/SSS13.22 , Environmental Seismology: Deciphering Earth's surface processes with seismic methods (co-organized), Hall X1, X1.294–X1.312	
NH9.11/GMPV6.11/HS11.43/SM3.19/SSS13.63 , Risk Management and risk hedging with examples from natural catastrophic events (co-organized), Hall X1, X1.202–X1.215	

NH9.12/AS5.17/CL5.30/ESS11.9/GIO.4/GMPV6.12/HS11.44/SM3.15/SSS13.66, Methods and Tools for Natural Risk Management and Communications – Innovative ways of delivering information to end users and sharing data among the scientific community (co-organized), **Hall X1, X1.216–X1.233**

Tuesday, 10 April

TU5, 17:30–19:00

HS2.1.4, Evapotranspiration: from measurement to modelling and application in catchment hydrology, **Hall A, A.1–A.24**

HS2.3.3, Isotope and tracer methods: flow paths characterization, catchment response and transformation processes, **Hall A, A.25–A.48**

HS2.3.5, Water quality at the catchment scale: measuring and modelling of nutrients, sediment and eutrophication impacts, **Hall A, A.49–A.71**

HS3.1, Hydroinformatics: computational intelligence, systems analysis, optimisation, data science, **Hall A, A.72–A.100**

HS3.2, Spatio-temporal and/or geostatistical analysis of hydrological events, extremes, and related hazards, **Hall A, A.101–A.120**

HS3.3, Innovative sensing techniques for water monitoring, modelling, and management: Satellite, gauges, and citizens, **Hall A, A.121–A.134**

HS4.1/AS4.27/GM8.7/NH1.11, Flash floods and associated hydro-geomorphic processes: observation, modelling and warning (co-organized), **Hall A, A.135–A.157**

HS5.2, Water resources - assessment, management, and allocation - in (semi-)arid regions, **Hall A, A.158–A.179**

HS5.4, Nature Based Solutions for hydrological extremes and water resource management, **Hall A, A.180–A.195**

HS6.2, Assimilation of hydrological and phenological remote sensing and in situ data, **Hall A, A.196–A.221**

HS6.4, Remote sensing of soil moisture, **Hall A, A.222–A.242**

HS7.5, Hydroclimatic extremes under change: advancing the science and implementation in hazard prevention and control, **Hall A, A.243–A.283**

HS8.1.1, General session, from pore to field scale: classical and stochastic approaches., **Hall A, A.284–A.303**

IE3.3/GM2.2/CR2.5/GI3.13/GMPV10.4/HS6.9/NH6.10/SSS13.21, High Resolution Topography in the Geosciences: Methods and Applications (co-sponsored by JpGU) (co-organized), **Hall X2, X2.51–X2.72**

SSS7.1/HS8.3.9, Interactions and feedbacks between soil structure and biogeochemical processes in micro-aggregates and beyond (co-organized), **Hall X3, X3.177–X3.203**

SSS7.3/HS8.3.11, Soil water Infiltration. Measurements, assessment and modeling (co-organized), **Hall X3, X3.204–X3.227**

G3.2/CR2.9/GD10.8/HS11.9/OS4.13, Geophysical Signal Separation in Global Geodesy (including G Division Outstanding ECS Lecture) (co-organized), **Hall X3, X3.75–X3.93**

GM1.2/BG4.5/HS11.15/SSS13.17/TS1.4, Beyond the case study: The essential role of concepts and history in Earth Sciences (co-organized), **Hall X2, X2.1–X2.15**

NH9.6/GMPV6.8/HS11.38/SM3.20, Resilience and vulnerability assessments in natural hazards and risk analysis (co-organized), **Hall X1, X1.237–X1.260**

NH9.7/CL3.12/HS11.39, Urban Resilience Studies (co-organized), **Hall X1, X1.261–X1.275**

NH9.9/AS5.20/GI1.9/HS11.41/SSS13.64, Monitoring and modelling of dangerous phenomena: innovative, low-cost techniques, tools and constraint of engineering-geological models for hazard evaluation and risk mitigation (co-organized), **Hall X1, X1.276–X1.296**

CL5.11/CR7.5/HS11.55, Linking climate and impact models: Challenges, approaches, solutions (co-organized), **Hall X5, X5.450–X5.462**

Wednesday, 11 April

WE3, 13:30–15:00 **EOS16/HS1.14**, Innovation in Geoscience, Hydrology and Engineering Education (co-organized), **Hall X1, X1.40–X1.56**

WE5, 17:30–19:00 **HS1.10**, Large-sample hydrology: characterising and understanding hydrological diversity, **Hall A, A.1–A.17**

HS1.17, Towards Global Integrated Hydrology Simulations: Perspectives and Advances in Terrestrial Modeling (including Arne Richter Award Lecture), **Hall A, A.18–A.28**

HS2.1.2, Large scale hydrology, **Hall A, A.29–A.46**

HS2.1.6, Process understanding in models - Improving hydrologic realism and reducing model weaknesses, **Hall A, A.47–A.72**

HS2.2.4, Changes in the Mediterranean hydrology: observation and modeling, **Hall A, A.73–A.91**

HS2.3.6, Micropollutants and pathogens in the soil-groundwater-river continuum: modeling and monitoring, **Hall A, A.92–A.110**

HS5.7/ERE3.8, Advances in modeling and control of environmental systems: from drainage and irrigation to hybrid energy generation. (co-organized), **Hall A, A.111–A.125**

HS5.8, Hydropower and other renewable energy sources: Integration and Planning amid the Water-Energy Nexus, **Hall A, A.126–A.142**

HS6.6, The Third Pole Environment - hydrometeorological processes and ancient human activity, **Hall A, A.143–A.165**

HS8.2.2, Fissured and karstified aquifers, **Hall A, A.166–A.184**

HS8.2.4, Groundwater flow understanding in water management: Environmental problems and potential interactions with subsurface water ecosystems, **Hall A, A.185–A.218**

NP5.3/AS1.5/HS4.8, Advances in statistical post-processing for deterministic and ensemble forecasts (co-organized), **Hall X4, X4.369–X4.388**

SSS7.2/HS8.3.10, Preferential flow and mass transfers in soils and porous fractured media (co-organized), **Hall X3, X3.205–X3.222**

SSS7.4/HS8.3.12, Challenges in soil physics research (co-organized), **Hall X3, X3.223–X3.237**

CL3.03/AS4.12/BG4.13/HS11.8/NH11.15/NP5.5/SSS13.13, Earth System Prediction and Application (co-organized), **Hall X5, X5.302–X5.316**

G4.2/HS11.10, High accuracy terrestrial gravity observations in the time varying gravity field (co-organized), **Hall X3, X3.137–X3.160**

GM5.4/CL4.32/HS11.21/SSP4.6/SSS13.26, Drylands: paleoenvironmental and geomorphic perspectives and challenges (co-organized), **Hall X1, X1.358–X1.373**

NH1.6/AS4.14/HS11.30, Coupled atmosphere-hydrological modeling for improved hydro-meteorological predictions (co-organized), **Hall X1, X1.72–X1.85**

NH1.9/HS11.31, Flood Risk Assessment and Management (co-organized), **Hall X1, X1.86–X1.115**

	NH9.10/GMPV6.10/HS11.42/SM3.16/SSS13.62 , Global and continental scale risk assessment for natural hazards: methods and practice (including Plinius Medal Lecture) (including NH Division Outstanding ECS Lecture) (co-organized), Hall X1, X1.194–X1.213
	SSS3.5/GM3.10/HS11.51 , Assessing the Critical Zone functioning and reconstructing its evolution, based on soils and sediments, interpreting the geochemical composition of soils and sediments with respect to provenance, palaeoenvironments and pollution (co-organized), Hall X3, X3.161–X3.188

Thursday, 12 April

TH4 , 15:30–17:00	GM1.5/HS11.17/NH1.22/SSP3.18 , The importance of granular processes and segregation in geophysical flows: implications for landscape evolution and hazard analysis (co-organized), Hall X2, X2.1–X2.14
TH5 , 17:30–19:00	HS1.8 , History of Hydrology, Hall A, A.1–A.12
	HS2.1.7 , What is a «good» hydrological model for impact study?, Hall A, A.13–A.29
	HS2.3.1 , Innovative sensing techniques and data analysis approaches to increase hydrological process understanding, Hall A, A.30–A.46
	HS2.3.4 , Controls on water storage, mixing and release dynamics across multiple spatial and temporal scales : open challenges, new experimental approaches and modelling avenues, Hall A, A.47–A.73
	HS2.4.1 , Hydrological change: Regional hydrological behaviour under transient climate and land use conditions, Hall A, A.74–A.98
	HS2.4.2/AS4.13 , Challenges understanding the links between hydrological variability and large-scale climate variations in a changing climate and environment (co-organized), Hall A, A.99–A.112
	HS4.4 , Drought and water scarcity: monitoring, modelling and forecasting to improve hydro-meteorological risk management, Hall A, A.113–A.147
	HS5.3 , Advances in socio-hydrology, Hall A, A.148–A.165
	HS5.14 , Water Infrastructure Risks and Cascade Reservoir Operations, Hall A, A.166–A.193
	HS7.1/AS1.18/NP3.3 , Precipitation measurement: techniques, processes and hydrological applications at the catchment scale (co-organized), Hall A, A.194–A.227
	HS8.1.4 , Subsurface flow and solute transport: Concepts, modelling, observations and applications of dispersion, mixing and reactive transport in heterogeneous media., Hall A, A.228–A.247
	HS8.1.6 , New advances towards understanding of subsurface processes coupling fluid dynamics, solute transport, geochemical reactions and biological activity, Hall A, A.248–A.270
	HS9.3/GM8.8/SSS13.36 , Techniques for quantifying fine sediment dynamics in river catchments (co-organized), Hall A, A.271–A.289
	HS9.4/SSS13.38 , Transfer of sediments and contaminants in catchments, rivers systems and lakes (co-organized), Hall A, A.290–A.308
	HS9.8/GM3.7/SSS13.39 , Extreme Erosion Processes, Hydrological Drivers and Connectivity (co-organized), Hall A, A.309–A.326
	HS10.2/GM11.7/OS2.6 , Integrative studies of the River-Sea-Continuum (co-organized), Hall A, A.327–A.343
	HS10.7 , Peatland Hydrology, Hall A, A.344–A.361

	HS10.9/BG7.4/GM8.6 , Linking river ecology, hydrology, geomorphology and biogeochemistry to understand stressor responses (co-organized), Hall A, A.362–A.380
	HS10.10 , Groundwater - Surface Water interactions: biogeochemical and ecological processes, Hall A, A.381–A.394
	GI1.2/AS4.21/BG1.31/EMRP4.4/ERE5.6/HS11.11/NH8.8/OS4.11/SSS13.16 , Geoscience processes related to Fukushima and Chernobyl nuclear accidents (co-organized), Hall X1, X1.41–X1.58
	GI1.3/AS5.15/BG1.30/CL5.10/EMRP4.5/ESSI1.6/HS11.12/SM5.03 , Environmental sensor network (co-organized), Hall X1, X1.59–X1.66
	GI3.5/EMRP4.11/HS11.14/NH11.12 , Innovative instrumentations, techniques, geophysical methods and models for near surface geophysics, cities and transport infrastructures (including GI Division Outstanding ECS Lecture) (co-organized), Hall X1, X1.108–X1.129
	NH1.1/AS4.24/HS11.26 , Extreme meteorological and hydrological events induced by severe weather and climate change (co-organized), Hall X1, X1.141–X1.161
	NH6.1/AS5.21/CR7.3/GI2.17/HS11.33/SM3.12/SSS13.54 , Application of remote sensing and Earth-observation data in natural hazard and risk studies (co-organized), Hall X1, X1.236–X1.270
	SSP3.12/BG6.2/GMPV3.10/HS11.47 , Sedimentary and diagenetic minerals: nucleation, growth mechanisms, and reactions that build Earth's geological archive (co-organized), Hall X1, X1.346–X1.365
	SSS9.8/BG2.44/GM5.6/HS11.53 , Coevolution of soils, landforms and vegetation: patterns, feedbacks and ecosystem stability thresholds (co-organized), Hall X3, X3.155–X3.173

Friday, 13 April

FR1 , 08:30–10:00	HS8.2.10 , Submarine groundwater discharge as a driver of biogeochemistry at the land-sea interface, Hall A, A.181–A.191
	HS8.3.6 , Investigation of soil-plant-atmosphere interactions with lysimeters and ecotrons, Hall A, A.225–A.240
FR3 , 13:30–15:00	HS7.2/AS1.17/CL2.06/NH1.17/NP5.4 , Precipitation Modelling: uncertainty, variability, assimilation, ensemble simulation and downscaling (co-organized), Hall A, A.89–A.129
FR5 , 17:30–19:00	HS2.1.1 , Hydrological extremes: from droughts to floods, Hall A, A.1–A.52
	HS2.2.1/CR3.7 , Snow hydrology: Monitoring and modeling of snow (co-organized), Hall A, A.53–A.72
	HS2.3.9 , Measuring and modelling surface water – groundwater interactions, Hall A, A.73–A.88
	HS7.4 , Naturally trendy: natural (and non-natural) trends (and non-trends) in climate and hydrology, Hall A, A.130–A.149
	HS8.1.5 , Fate and transport of biocolloids and nanoparticles in soil and groundwater systems, Hall A, A.150–A.165
	HS8.1.7/ERE6.5 , Reactive transport, mineral dissolution and precipitation in fractured and porous rock: experiments, models and field observations (co-organized), Hall A, A.166–A.180
	HS8.3.1 , Vadose zone hydrology: General Session, Hall A, A.192–A.209
HS8.3.4/SSS13.81 , Soil-Root Interactions (co-organized), Hall A, A.210–A.224	

HS9.1/GM8.10 , Measurements, monitoring and numerical modelling of sedimentary and hydro-morphological processes in open-water environments (co-organized), Hall A, A.241–A.269
HS9.7/GM3.13 , Investigation of sediment transport processes due to geophysical flows (co-organized), Hall A, A.273–A.288
HS10.1 , Lakes and inland seas in a changing environment, Hall A, A.289–A.303
HS10.3 , General Ecohydrology, Hall A, A.304–A.328
HS10.5/BG2.1/SSS13.40 , Stable isotopes to study water dynamics in the soil-plant-atmosphere continuum (co-organized), Hall A, A.329–A.343
CL1.06/GM8.12/HS1.19 , Tackling past hydrological cycles - from local and regional to global scales (co-organized), Hall X5, X5.345–X5.361
NH3.1/HS2.3.10 , Landslide hydrology: from hydrology to pore water pressure and slope deformation (co-organized), Hall X1, X1.71–X1.92
AS5.10/BG1.13/CL5.08/HS3.6/OS1.18 , High resolution weather and climate models on large supercomputers (co-organized), Hall X5, X5.321–X5.344
NH8.1/HS5.13/SSS13.60 , Arsenic and other contaminants in soil and groundwater: interventions for source control and regulatory compliance (co-organized), Hall X1, X1.225–X1.246
GM11.2/BG7.8/HS9.13/OS2.8/SSP3.15 , Rivers, Deltas and Their Receiving Basins: Measurements, Modelling and Management (co-organized), Hall X2, X2.60–X2.81
GM8.4/HS9.14 , Sediment transport and channel morphology in mountain rivers (co-organized), Hall X2, X2.1–X2.14
GM8.1/HS9.15/SSP3.22 , Fluvial Systems: Dynamics and Interactions Across Scales (co-organized), Hall X1, X1.338–X1.369
GI2.7/AS4.16/CL5.23/EMRP4.8/HS11.13/PS4.7 , Cosmic rays across scales and disciplines: the new frontier in environmental research (co-organized), Hall X4, X4.242–X4.259
NH1.3/HS11.27 , Flood risk and uncertainty (co-organized), Hall X1, X1.49–X1.70
NH5.4/AS4.29/CL3.10/HS11.32/OS2.11 , Natural Hazards and climate change impacts in coastal areas (co-organized), Hall X1, X1.145–X1.164
NH8.2/GM7.5/HS11.35/SSS13.42 , Speleogenesis, Geomorphology and Hazards in Karst (co-organized), Hall X1, X1.247–X1.268