HS – Hydrological Sciences – Orals and PICOs

Monday, 08 April	
MO1, 08:30–10:00	**HS1.2**, Data & Models, Induction & Prediction, Information & Uncertainty: Towards a common framework for model building and predictions in the Geosciences, **08:30–12:00**, **Room R4**
	HS2.6, Hydrological change: Regional hydrological behaviour under transient climate and land use conditions, **08:30–12:00**, **Room R6**
	HS2.10, Understanding catchment response: from changing states to changing behaviors, **08:30–12:00**, **Room R8**
	HS3.1, Hydroinformatics: computational intelligence, systems analysis and optimisation, **08:30–12:00**, **Room R11**
	HS8.3.2/SSS2.12, Monitoring and modelling transfer processes in the soil-plant-atmosphere continuum across scales (co-organized), **08:30–10:00**, **Room R14**
	HS10.10/BG4.5, Environmental and anthropogenic change effects on interlinked ecohydrological systems - physical constraints, ecological adaptation and societal decisions (co-organized), **08:30–15:00**, **Room R1**
	NP4.1, Time Series Analysis in the Geosciences - Concepts, Methods and Applications (co-listed), **08:30–12:15**, **Room Y5**
	SSS7.2/AS4.15/BG2.20/CL2.8/NH8.4, Soils and Human Health (co-listed), **08:30–10:15**, **Room B8**
MO2, 10:30–12:00	**HS1.2**, Data & Models, Induction & Prediction, Information & Uncertainty: Towards a common framework for model building and predictions in the Geosciences, **08:30–12:00**, **Room R4**
	HS2.6, Hydrological change: Regional hydrological behaviour under transient climate and land use conditions, **08:30–12:00**, **Room R6**
	HS2.10, Understanding catchment response: from changing states to changing behaviors, **08:30–12:00**, **Room R8**
	HS3.1, Hydroinformatics: computational intelligence, systems analysis and optimisation, **08:30–12:00**, **Room R11**
	HS8.3.3/SSS2.13, Trace gases emissions from soils: Sources, mechanisms and process rates (co-organized), **10:30–12:00**, **Room R14**
	HS10.10/BG4.5, Environmental and anthropogenic change effects on interlinked ecohydrological systems - physical constraints, ecological adaptation and societal decisions (co-organized), **08:30–15:00**, **Room R1**
	NP4.1, Time Series Analysis in the Geosciences - Concepts, Methods and Applications (co-listed), **08:30–12:15**, **Room Y5**
MO3, 13:30–15:00	**BG2.6**, Earth observation for monitoring the global energy, water and carbon cycles over land (co-listed), **13:30–15:00**, **Room G5**
	HS1.2, Data & Models, Induction & Prediction, Information & Uncertainty: Towards a common framework for model building and predictions in the Geosciences, **13:30–17:00**, **Room PICO Spot 1**
	HS1.4, Patterns in Soil-Vegetation-Atmosphere Systems: Monitoring, Modelling, and Data Assimilation, **13:30–17:00**, **Room R8**
	HS2.7, Water quality at the catchment scale: Advances in measuring and modeling nutrient, sediment, and contaminant fluxes, **13:30–15:00**, **Room R6**
	HS3.2, Geostatistics for space-time analysis of hydrological events, **13:30–15:00**, **Room R11**
	HS8.3.6/SSS2.16, Hydrophobicity and temporal dynamics of soil physical properties (co-organized), **13:30–14:45**, **Room R4**

	HS10.10/BG4.5, Environmental and anthropogenic change effects on interlinked ecohydrological systems - physical constraints, ecological adaptation and societal decisions (co-organized), **08:30–15:00**, **Room R1**
	PSD19.7, HS10.7 - Interactions between surface water, groundwater, and the hyporheic zone, **13:30–14:15**, **Room R12**
	SSS0.8, Spatial and Temporal Patterns in Soil Systems: Monitoring, Modeling and Characterization of soil water contents and soil properties (co-listed), **13:30–17:15**, **Room B6**
	SSS8.1/BG2.22, Dissolved organic matter - linking soils and aquatic systems (co-listed), **13:30–17:15**, **Room B8**
MO4, 15:30–17:00	**HS1.2**, Data & Models, Induction & Prediction, Information & Uncertainty: Towards a common framework for model building and predictions in the Geosciences, **13:30–17:00**, **Room PICO Spot 1**
	HS1.4, Patterns in Soil-Vegetation-Atmosphere Systems: Monitoring, Modelling, and Data Assimilation, **13:30–17:00**, **Room R8**
	HS2.9, Catchment Organisation and Similarity, **15:30–17:00**, **Room R6**
	HS7.1/AS1.5/NH1.2, Precipitation: from measurement to modelling and application in catchment hydrology (co-organized), **15:30–17:00**, **Room R1**
	HS8.3.5/SSS2.15, The role of interfaces in flow and transport in porous media (co-organized), **15:30–17:00**, **Room R4**
	HS10.7, Interactions between surface water, groundwater, and the hyporheic zone, **15:30–17:00**, **Room R11**
	NP2.4/CL5.14/ESSI2.10, Complex networks and data-driven knowledge discovery in geophysical systems (co-listed), **15:30–17:15**, **Room Y10**
	PSD19.1, HS3.3 - Poster Session on Open Source Computing in Hydrology, **15:30–16:15**, **Room R12**
	SSS0.8, Spatial and Temporal Patterns in Soil Systems: Monitoring, Modeling and Characterization of soil water contents and soil properties (co-listed), **13:30–17:15**, **Room B6**
	SSS8.1/BG2.22, Dissolved organic matter - linking soils and aquatic systems (co-listed), **13:30–17:15**, **Room B8**

Tuesday, 09 April

TU1, 08:30–10:00	**GI1.4/SSS6.11**, From Chernobyl to Fukushima: Development of the Geoscientists' Knowledgebase (co-listed), **08:30–12:00**, **Room PICO Spot 1**
	HS2.9, Catchment Organisation and Similarity, **08:30–10:00**, **Room R6**
	HS5.1, Assessment and management of water resources in the Mediterranean, **08:30–10:00**, **Room R11**
	HS7.1/AS1.5/NH1.2, Precipitation: from measurement to modelling and application in catchment hydrology (co-organized), **08:30–10:00**, **Room R1**
	HS8.1.6, Fate and transport of biocolloids and nanoparticles in soil and groundwater systems, **08:30–12:00**, **Room R4**
	HS10.3, Estuarine processes, **08:30–12:00**, **Room R8**
	SSS2.9, Innovative techniques for data acquisition in soil erosion studies in catchments (co-listed), **08:30–10:15**, **Room B8**
TU2, 10:30–12:00	**GI1.4/SSS6.11**, From Chernobyl to Fukushima: Development of the Geoscientists' Knowledgebase (co-listed), **08:30–12:00**, **Room PICO Spot 1**
	HS2.2, Hydrological extremes: from droughts to floods, **10:30–17:00**, **Room R6**
	HS5.6, Stakeholders, public involvement and collaborative processes in hydrology research and water management, **10:30–11:45**, **Room R11**

	HS7.3/CL2.12/NP1.4, Water, climate and health (co-organized), **10:30–17:00**, **Room R1**
	HS8.1.6, Fate and transport of biocolloids and nanoparticles in soil and groundwater systems, **08:30–12:00**, **Room R4**
	HS10.3, Estuarine processes, **08:30–12:00**, **Room R8**
	SSS9.7, Validation and uncertainty in soil erosion modelling: achievements and challenges (co-listed), **10:30–12:15**, **Room B8**
TUL, 12:15–13:15	**ML2**, Arthur Holmes Medal Lecture by Sierd Cloetingh (co-listed), **12:15–13:15**, **Room R1**
	PSD18.7, SSS2.1/HS8.3.7 - Soil infiltration: Methods, measurements, models and factors, **12:15–13:00**, **Room R12**
TU3, 13:30–15:00	**GI1.4/SSS6.11**, From Chernobyl to Fukushima: Development of the Geoscientists' Knowledgebase (co-listed), **13:30–17:00**, **Room G1**
	HS2.2, Hydrological extremes: from droughts to floods, **10:30–17:00**, **Room R6**
	HS5.4, Design and Operation of Water Resource Systems: Computer Based Control and Optimization, **13:30–17:00**, **Room R11**
	HS7.3/CL2.12/NP1.4, Water, climate and health (co-organized), **10:30–17:00**, **Room R1**
	HS8.1.4/SSS2.11, Pore Scale Characterization and Upscaling of Flow and Transport in Porous Media (co-organized), **13:30–17:00**, **Room R4**
	HS10.4/SSS2.17, General Ecohydrology (co-organized), **13:30–17:14**, **Room R8**
	SSS2.1/HS8.3.7, Soil infiltration: Methods, measurements, models and factors (co-organized), **13:30–15:15**, **Room B6**
TU4, 15:30–17:00	**GI1.4/SSS6.11**, From Chernobyl to Fukushima: Development of the Geoscientists' Knowledgebase (co-listed), **13:30–17:00**, **Room G1**
	HS2.2, Hydrological extremes: from droughts to floods, **10:30–17:00**, **Room R6**
	HS5.4, Design and Operation of Water Resource Systems: Computer Based Control and Optimization, **13:30–17:00**, **Room R11**
	HS7.3/CL2.12/NP1.4, Water, climate and health (co-organized), **10:30–17:00**, **Room R1**
	HS8.1.4/SSS2.11, Pore Scale Characterization and Upscaling of Flow and Transport in Porous Media (co-organized), **13:30–17:00**, **Room R4**
	HS10.4/SSS2.17, General Ecohydrology (co-organized), **13:30–17:14**, **Room R8**
	SSS2.5/HS8.3.9, Progress and Challenges in Understanding Vadose Zone Processes: Commuting between soil science and hydrology (co-organized), **15:30–17:00**, **Room B6**
TU6, 19:00–20:00	**ML18**, John Dalton Medal Lecture by Michael Roderick (co-listed), **19:00–20:00**, **Room R1**

Wednesday, 10 April

WE1, 08:30–10:00	**GI1.4/SSS6.11**, From Chernobyl to Fukushima: Development of the Geoscientists' Knowledgebase (co-listed), **08:30–12:00**, **Room G1**
	GM6.2/HS12.3/SSS11.1, Connectivity in landscape dynamics: integrating a concept across disciplines (co-organized), **08:30–12:00**, **Room G2**
	HS2.4, Observational hydrology: Recent development in isotope and other tracer methods, **08:30–12:00**, **Room R8**
	HS2.13, Decadal flood risk changes, **08:30–10:00**, **Room R4**
	HS8.1.2, Hydrogeophysics: From non-invasive site characterization to improved process understanding, **08:30–10:00**, **Room R1**

	HS9.2/GM7.7, From grains to landscapes: recent advances in understanding the links between surface topography, fluid mechanics and sediment transport (co-organized), **08:30–12:00**, **Room R14**
	HS10.2, Lakes and climate change – impacts, vulnerability, risk assessment and adaptation strategies, **08:30–12:00**, **Room R6**
	SC4/HS11.1, How to write (and publish) a scientific paper in hydrology (co-organized), **08:30–10:00**, **Room R2**
	SM4.5/HS8.1.9, Imaging the shallow subsurface with seismic and other geophysical methods (co-organized), **08:30–12:00**, **Room B5**
WE2, 10:30–12:00	**GI1.4/SSS6.11**, From Chernobyl to Fukushima: Development of the Geoscientists' Knowledgebase (co-listed), **08:30–12:00**, **Room G1**
	GM6.2/HS12.3/SSS11.1, Connectivity in landscape dynamics: integrating a concept across disciplines (co-organized), **08:30–12:00**, **Room G2**
	HS2.4, Observational hydrology: Recent development in isotope and other tracer methods, **08:30–12:00**, **Room R8**
	HS8.1.3/SSS2.10, Parameter Estimation, Inverse Modelling and Data Assimilation in Subsurface Hydrology (co-organized), **10:30–12:00**, **Room R1**
	HS8.1.5, Groundwater Recharge: Water and solute transport through the unsaturated zone to the groundwater, **10:30–12:00**, **Room R4**
	HS9.2/GM7.7, From grains to landscapes: recent advances in understanding the links between surface topography, fluid mechanics and sediment transport (co-organized), **08:30–12:00**, **Room R14**
	HS10.2, Lakes and climate change – impacts, vulnerability, risk assessment and adaptation strategies, **08:30–12:00**, **Room R6**
	SM4.5/HS8.1.9, Imaging the shallow subsurface with seismic and other geophysical methods (co-organized), **08:30–12:00**, **Room B5**
	SSS9.6/GM6.7/HS12.6, The impact of fire on soil properties, runoff generation and sediment transport (co-organized), **10:30–12:15**, **Room B6**
WEL, 12:15–13:15	**ML1**, Alfred Wegener Medal Lecture by Edouard Bard (co-listed), **12:15–13:15**, **Room R1**
	PSD18.4, SSS9.6/GM6.7/HS12.6 - The impact of fire on soil properties, runoff generation and sediment transport, **12:15–13:00**, **Room B7**
WE3, 13:30–15:00	**HS2.5**, Large scale hydrology, **13:30–17:00**, **Room R13**
	HS7.2/AS1.6/CL5.13/NH1.3/NP3.8, Precipitation uncertainty and variability: observations, ensemble simulation and downscaling (co-organized), **13:30–17:00**, **Room R6**
	HS8.1.1, Subsurface flow, solute transport, and energy processes: Concepts, modelling, and observations, **13:30–15:00**, **Room R4**
	HS9.4/GM7.14, Quantifying sources and travel times of fine sediment in river basins: techniques, challenges and prospects (co-organized), **13:30–15:00**, **Room R14**
	HS10.9, Redistribution of rain in forests: Patterns, processes, and interactions at the soil – atmosphere interface, **13:30–15:00**, **Room R8**
	PSD19.8, HS10.1 - Lakes and inland seas, **13:30–14:15**, **Room R7**
WE4, 15:30–17:00	**HS2.5**, Large scale hydrology, **13:30–17:00**, **Room R13**
	HS5.3, Advances in Modeling of Coupled Hydrologic-Socioeconomic Systems, **15:30–17:00**, **Room R11**
	HS7.2/AS1.6/CL5.13/NH1.3/NP3.8, Precipitation uncertainty and variability: observations, ensemble simulation and downscaling (co-organized), **13:30–17:00**, **Room R6**

	HS8.1.7, Characterizing contaminant fate and engineering the subsurface using physical, chemical, microbial and isotopic techniques, **15:30–17:00**, **Room R4**
	HS9.3/GM7.5, Transfer of sediments and associated substances in catchment and river systems (co-organized), **15:30–17:00**, **Room R14**
	HS10.1, Lakes and inland seas, **15:30–17:00**, **Room R8**
	PSD19.3, HS8.1.3/SSS2.10 - Parameter Estimation, Inverse Modelling and Data Assimilation in Subsurface Hydrology, **15:30–16:15**, **Room R12**
Thursday, 11 April	
TH1, 08:30–10:00	**GI2.6/HS6.8**, Merging hydrologic models and Earth Observation data for reliable information on water (co-organized), **08:30–12:00**, **Room G1**
	HS4.4, Drought and water scarcity: hydrological monitoring, modelling and forecasting to improve water management, **08:30–12:00**, **Room R6**
	HS6.1/OS4.9, SMOS: successfully completing 3-years nominal life time (co-organized), **08:30–10:00**, **Room R4**
	HS8.2.5, Freshwater-saltwater interactions and density-driven flow, **08:30–12:00**, **Room R11**
	HS10.5/SSS2.18, Peatland Hydrology (co-organized), **08:30–12:00**, **Room R8**
	NP3.2/AS4.17/GM6.6/HS7.7/SM1.7, Geocomplexity: patterns, processes, scaling and extremes in the geosciences (co-organized), **08:30–12:00**, **Room Y10**
	SC5/HS11.2, Meet the expert in hydrology - Round tables among young and established scientists (co-organized), **08:30–10:00**, **Room R2**
	SSS2.8, Modeling the experiment, experimenting the models - from experiment to complex processes model (co-listed), **08:30–12:00**, **Room B6**
TH2, 10:30–12:00	**GI2.6/HS6.8**, Merging hydrologic models and Earth Observation data for reliable information on water (co-organized), **08:30–12:00**, **Room G1**
	HS4.4, Drought and water scarcity: hydrological monitoring, modelling and forecasting to improve water management, **08:30–12:00**, **Room R6**
	HS6.2, Remote sensing of soil moisture, **10:30–12:00**, **Room R4**
	HS8.2.5, Freshwater-saltwater interactions and density-driven flow, **08:30–12:00**, **Room R11**
	HS10.5/SSS2.18, Peatland Hydrology (co-organized), **08:30–12:00**, **Room R8**
	NP3.2/AS4.17/GM6.6/HS7.7/SM1.7, Geocomplexity: patterns, processes, scaling and extremes in the geosciences (co-organized), **08:30–12:00**, **Room Y10**
	SSS2.8, Modeling the experiment, experimenting the models - from experiment to complex processes model (co-listed), **08:30–12:00**, **Room B6**
TH3, 13:30–15:00	**GI2.5**, Preparatory activities for the scientific utilisation of the GMES Sentinel satellites constellations including Cal/Val activities of their optical instruments (co-listed), **13:30–15:00**, **Room G1**
	HS2.14, Measuring and modelling surface water – groundwater interactions, **13:30–17:15**, **Room R8**
	HS4.3/AS4.20/NH1.13, Ensemble hydro-meteorological forecasting for improved risk management: across scales and applications (co-organized), **13:30–17:00**, **Room R6**
	HS5.2, Hydrological,hydrochemical and hydroecological monitoring for water resources management in continental areas, **13:30–15:00**, **Room R11**

	HS6.5, The Third Pole Environment - Observation and modelling of hydrometeorological processes in high elevation areas, **13:30–17:00**, **Room R4**
	HS7.4/AS1.22/CL2.15, Hydrological extremes in a changing climate: Risk and impacts on water infrastructure and insurance costs (co-organized), **13:30–15:00**, **Room R13**
TH4, 15:30–17:00	**AS1.4/CL2.11/HS12.1**, Precipitation: Measurement, Climatology, Remote Sensing, and Modeling (General Session) (co-organized), **15:30–17:00**, **Room B14**
	HS2.14, Measuring and modelling surface water – groundwater interactions, **13:30–17:15**, **Room R8**
	HS4.3/AS4.20/NH1.13, Ensemble hydro-meteorological forecasting for improved risk management: across scales and applications (co-organized), **13:30–17:00**, **Room R6**
	HS6.5, The Third Pole Environment - Observation and modelling of hydrometeorological processes in high elevation areas, **13:30–17:00**, **Room R4**
	HS7.5/NP8.4, Hydroclimatic stochastics (co-organized), **15:30–17:00**, **Room R13**
	HS8.2.2/IG13, Groundwater Dating: Applications and current problems (co-organized), **15:30–17:00**, **Room R11**
	NP3.5/AS4.7/CL5.1/HS8.1.10, Geophysical Downscaling Methods (co-organized), **15:30–17:00**, **Room Y10**
	PSD15.5, GM9.2/HS9.8/NH3.15 - Geomorphic and hydrological processes in proglacial areas under conditions of (rapid) deglaciation, **15:30–16:15**, **Room R12**
TH6, 19:00–20:00	**ML19**, Henry Darcy Medal Lecture by Georgia Destouni (co-listed), **19:00–20:00**, **Room R6**
Friday, 12 April	
FR1, 08:30–10:00	**AS1.4/CL2.11/HS12.1**, Precipitation: Measurement, Climatology, Remote Sensing, and Modeling (General Session) (co-organized), **08:30–17:00**, **Room B14**
	GI1.5, Open session on advances in Data, Methods, Models and Their Applications in Geosciences (co-listed), **08:30–12:00**, **Room G1**
	HS2.1, Innovative sensing techniques and data analysis approaches to increase hydrological process understanding, **08:30–12:00**, **Room R6**
	HS4.2, Hydrological forecasting: challenges in uncertainty estimation, data assimilation, post-processing and decision-making, **08:30–10:00**, **Room R8**
	HS6.4, Hydrology and remote sensing: current platforms and the future SWOT mission, **08:30–12:00**, **Room R13**
	HS8.2.3, Fissured and karstified aquifers, **08:30–10:00**, **Room R4**
	SSS0.10/EOS10/BG2.20/HS8.3.11, Soil Science education challenge: what and how do we teach them? (co-organized), **08:30–10:15**, **Room B9**
	SSS9.5/GM4.8, Interactions between soils, organisms and hydrogeomorphological processes - understanding landscapes and ecosystems dynamics in response to disturbances regimes (including Arne Richter Award for Outstanding Young Scientists by Simon M. Mudd) (co-listed), **08:30–15:30**, **Room B6**
	SSS10.2, Soil and irrigation sustainability practices (co-listed), **08:30–12:00**, **Room B8**
FR2, 10:30–12:00	**AS1.4/CL2.11/HS12.1**, Precipitation: Measurement, Climatology, Remote Sensing, and Modeling (General Session) (co-organized), **08:30–17:00**, **Room B14**

	GI1.5, Open session on advances in Data, Methods, Models and Their Applications in Geosciences (co-listed), **08:30–12:00**, **Room G1**
	HS2.1, Innovative sensing techniques and data analysis approaches to increase hydrological process understanding, **08:30–12:00**, **Room R6**
	HS2.8, Water quality at the catchment scale: monitoring and modeling of micropollutants, **10:30–12:00**, **Room R4**
	HS4.1/AS1.21/GM7.6/NH1.7, Flash floods: from observations to risk governance (co-organized), **10:30–12:00**, **Room R8**
	HS6.4, Hydrology and remote sensing: current platforms and the future SWOT mission, **08:30–12:00**, **Room R13**
	IG3/HS12.4, Isotope Techniques for Understanding Elemental Cycling in Catchments: Clues from temporal Dynamics and Spatial Resolution (co-organized), **10:30–12:00**, **Room B11**
	SSS9.5/GM4.8, Interactions between soils, organisms and hydrogeomorphological processes - understanding landscapes and ecosystems dynamics in response to disturbances regimes (including Arne Richter Award for Outstanding Young Scientists by Simon M. Mudd) (co-listed), **08:30–15:30**, **Room B6**
	SSS10.2, Soil and irrigation sustainability practices (co-listed), **08:30–12:00**, **Room B8**
FR3, 13:30–15:00	**AS1.4/CL2.11/HS12.1**, Precipitation: Measurement, Climatology, Remote Sensing, and Modeling (General Session) (co-organized), **08:30–17:00**, **Room B14**
	BG2.13/SSS2.3, Developments in terrestrial biogeochemical models using model-data integration (co-listed), **13:30–17:00**, **Room G4**
	GM9.2/HS9.8/NH3.15, Geomorphic and hydrological processes in proglacial areas under conditions of (rapid) deglaciation (co-organized), **13:30–15:00**, **Room G2**
	HS2.3, Monitoring Strategies: temporal trends in groundwater and surface water quality and quantity, **13:30–17:00**, **Room R4**
	HS2.11, Mountain Hydrology: Monitoring and modeling of snow, **13:30–17:00**, **Room R13**
	HS4.5, Hydrology for decision-making: the value of forecasts, predictions, scenarios, outlooks and foresights, **13:30–17:00**, **Room R1**
	HS6.7, Assimilation of remote sensing data for distributed land surface modeling, **13:30–15:00**, **Room R8**
	HS8.2.1, Stochastic groundwater hydrology, **13:30–17:00**, **Room R11**
	HS8.2.6, Groundwater resources in a changing environment, **13:30–17:00**, **Room R6**
	PSD10.1, IG3/HS12.4 - Isotope Techniques for Understanding Elemental Cycling in Catchments: Clues from temporal Dynamics and Spatial Resolution, **13:30–14:15**, **Room B7**
	SSS9.5/GM4.8, Interactions between soils, organisms and hydrogeomorphological processes - understanding landscapes and ecosystems dynamics in response to disturbances regimes (including Arne Richter Award for Outstanding Young Scientists by Simon M. Mudd) (co-listed), **08:30–15:30**, **Room B6**
FR4, 15:30–17:00	**AS1.4/CL2.11/HS12.1**, Precipitation: Measurement, Climatology, Remote Sensing, and Modeling (General Session) (co-organized), **08:30–17:00**, **Room B14**
	BG2.13/SSS2.3, Developments in terrestrial biogeochemical models using model-data integration (co-listed), **13:30–17:00**, **Room G4**

	CL5.9/BG1.8/EMRP4.3/ERE5.6/GD8.7/GI3.8/GM11.1/GMPV39/HS12.2/NH5.9/OS3.4/SSP1.4, Major achievements and perspectives in scientific ocean and continental drilling (co-organized), **15:30–17:00**, **Room Y8**
	HS2.3, Monitoring Strategies: temporal trends in groundwater and surface water quality and quantity, **13:30–17:00**, **Room R4**
	HS2.11, Mountain Hydrology: Monitoring and modeling of snow, **13:30–17:00**, **Room R13**
	HS4.5, Hydrology for decision-making: the value of forecasts, predictions, scenarios, outlooks and foresights, **13:30–17:00**, **Room R1**
	HS6.3, High to coarse resolution remote sensing for operational hydrological applications, **15:30–17:00**, **Room R8**
	HS8.2.1, Stochastic groundwater hydrology, **13:30–17:00**, **Room R11**
	HS8.2.6, Groundwater resources in a changing environment, **13:30–17:00**, **Room R6**

HS – Hydrological Sciences – Posters

Monday, 08 April	
MO3, 13:30–15:00	**PSD19.7**, HS10.7 - Interactions between surface water, groundwater, and the hyporheic zone, **13:30–14:15**, **Room R12**
MO4, 15:30–17:00	**PSD19.1**, HS3.3 - Poster Session on Open Source Computing in Hydrology, **15:30–16:15**, **Room R12**
MO5, 17:30–19:00	**BG2.6**, Earth observation for monitoring the global energy, water and carbon cycles over land (co-listed), **Green Posters**, **G25–G42**
	HS1.1, Innovative techniques and unintended use of measurement equipment, **Red Posters**, **R206–R215**
	HS1.4, Patterns in Soil-Vegetation-Atmosphere Systems: Monitoring, Modelling, and Data Assimilation, **Red Posters**, **R216–R229**
	HS2.6, Hydrological change: Regional hydrological behaviour under transient climate and land use conditions, **Red Posters**, **R230–R258**
	HS2.9, Catchment Organisation and Similarity, **Red Posters**, **R259–R276**
	HS2.10, Understanding catchment response: from changing states to changing behaviors, **Red Posters**, **R277–R289**
	HS3.1, Hydroinformatics: computational intelligence, systems analysis and optimisation, **Red Posters**, **R290–R298**
	HS3.2, Geostatistics for space-time analysis of hydrological events, **Red Posters**, **R299–R303**
	HS3.3, Poster Session on Open Source Computing in Hydrology, **Red Posters**, **R304–R324** | Related: PSD19.1, see MO4
	HS8.3.2/SSS2.12, Monitoring and modelling transfer processes in the soil-plant-atmosphere continuum across scales (co-organized), **Red Posters**, **R325–R338**
	HS8.3.3/SSS2.13, Trace gases emissions from soils: Sources, mechanisms and process rates (co-organized), **Red Posters**, **R339–R351**
	HS8.3.5/SSS2.15, The role of interfaces in flow and transport in porous media (co-organized), **Red Posters**, **R352–R365**
	HS8.3.6/SSS2.16, Hydrophobicity and temporal dynamics of soil physical properties (co-organized), **Red Posters**, **R366–R373**
	HS10.7, Interactions between surface water, groundwater, and the hyporheic zone, **Red Posters**, **R374–R388** | Related: PSD19.7, see MO3
	HS10.10/BG4.5, Environmental and anthropogenic change effects on interlinked ecohydrological systems - physical constraints, ecological adaptation and societal decisions (co-organized), **Red Posters**, **R389–R424**
	NP2.4/CL5.14/ESSI2.10, Complex networks and data-driven knowledge discovery in geophysical systems (co-listed), **Blue Posters**, **B798–B813**
	SSS0.8, Spatial and Temporal Patterns in Soil Systems: Monitoring, Modeling and Characterization of soil water contents and soil properties (co-listed), **Blue Posters**, **B522–B542**
	SSS7.2/AS4.15/BG2.20/CL2.8/NH8.4, Soils and Human Health (co-listed), **Blue Posters**, **B605–B624**
	SSS8.1/BG2.22, Dissolved organic matter - linking soils and aquatic systems (co-listed), **Blue Posters**, **B625–B642**
Tuesday, 09 April	
TUL, 12:15–13:15	**PSD18.7**, SSS2.1/HS8.3.7 - Soil infiltration: Methods, measurements, models and factors, **12:15–13:00**, **Room R12**

TU5, 17:30–19:00	**BG2.17**, Snow-shrub interactions: Exploring the hydrology, biochemistry and ecology of changing tundra ecosystems (co-listed), **Green Posters**, **G64–G75** | Related: PSD17.7, see TU4
	HS2.2, Hydrological extremes: from droughts to floods, **Red Posters**, **R191–R221**
	HS2.7, Water quality at the catchment scale: Advances in measuring and modeling nutrient, sediment, and contaminant fluxes, **Red Posters**, **R222–R241**
	HS5.1, Assessment and management of water resources in the Mediterranean, **Red Posters**, **R242–R256**
	HS5.4, Design and Operation of Water Resource Systems: Computer Based Control and Optimization, **Red Posters**, **R257–R265**
	HS5.6, Stakeholders, public involvement and collaborative processes in hydrology research and water management, **Red Posters**, **R266–R286**
	HS7.1/AS1.5/NH1.2, Precipitation: from measurement to modelling and application in catchment hydrology (co-organized), **Red Posters**, **R287–R314**
	HS7.3/CL2.12/NP1.4, Water, climate and health (co-organized), **Red Posters**, **R315–R336**
	HS8.1.4/SSS2.11, Pore Scale Characterization and Upscaling of Flow and Transport in Porous Media (co-organized), **Red Posters**, **R337–R349**
	HS8.1.6, Fate and transport of biocolloids and nanoparticles in soil and groundwater systems, **Red Posters**, **R350–R365**
	HS10.3, Estuarine processes, **Red Posters**, **R366–R379**
	HS10.4/SSS2.17, General Ecohydrology (co-organized), **Red Posters**, **R380–R394**
	NP4.1, Time Series Analysis in the Geosciences - Concepts, Methods and Applications (co-listed), **Blue Posters**, **B940–B955**
	SSS2.1/HS8.3.7, Soil infiltration: Methods, measurements, models and factors (co-organized), **Blue Posters**, **B672–B679** | Related: PSD18.7, see TUL
	SSS2.5/HS8.3.9, Progress and Challenges in Understanding Vadose Zone Processes: Commuting between soil science and hydrology (co-organized), **Blue Posters**, **B696–B713**
	SSS2.9, Innovative techniques for data acquisition in soil erosion studies in catchments (co-listed), **Blue Posters**, **B714–B726**
	SSS9.7, Validation and uncertainty in soil erosion modelling: achievements and challenges (co-listed), **Blue Posters**, **B782–B791**

Wednesday, 10 April

WEL, 12:15–13:15	**PSD18.4**, SSS9.6/GM6.7/HS12.6 - The impact of fire on soil properties, runoff generation and sediment transport, **12:15–13:00**, **Room B7**
WE3, 13:30–15:00	**PSD19.8**, HS10.1 - Lakes and inland seas, **13:30–14:15**, **Room R7**
WE4, 15:30–17:00	**PSD19.3**, HS8.1.3/SSS2.10 - Parameter Estimation, Inverse Modelling and Data Assimilation in Subsurface Hydrology, **15:30–16:15**, **Room R12**
WE5, 17:30–19:00	**GM6.2/HS12.3/SSS11.1**, Connectivity in landscape dynamics: integrating a concept across disciplines (co-organized), **Blue Posters**, **B512–B528**
	HS2.4, Observational hydrology: Recent development in isotope and other tracer methods, **Red Posters**, **R193–R210**
	HS2.5, Large scale hydrology, **Red Posters**, **R211–R228**

	HS2.13, Decadal flood risk changes, **Red Posters**, **R229–R244**
	HS5.3, Advances in Modeling of Coupled Hydrologic-Socioeconomic Systems, **Red Posters**, **R245–R258**
	HS7.2/AS1.6/CL5.13/NH1.3/NP3.8, Precipitation uncertainty and variability: observations, ensemble simulation and downscaling (co-organized), **Red Posters**, **R259–R284**
	HS8.1.1, Subsurface flow, solute transport, and energy processes: Concepts, modelling, and observations, **Red Posters**, **R285–R300**
	HS8.1.2, Hydrogeophysics: From non-invasive site characterization to improved process understanding, **Red Posters**, **R301–R318**
	HS8.1.3/SSS2.10, Parameter Estimation, Inverse Modelling and Data Assimilation in Subsurface Hydrology (co-organized), **Red Posters**, **R319–R336** | Related: PSD19.3, see WE4
	HS8.1.5, Groundwater Recharge: Water and solute transport through the unsaturated zone to the groundwater, **Red Posters**, **R337–R345**
	HS8.1.7, Characterizing contaminant fate and engineering the subsurface using physical, chemical, microbial and isotopic techniques, **Red Posters**, **R346–R361**
	HS9.2/GM7.7, From grains to landscapes: recent advances in understanding the links between surface topography, fluid mechanics and sediment transport (co-organized), **Red Posters**, **R362–R387**
	HS9.3/GM7.5, Transfer of sediments and associated substances in catchment and river systems (co-organized), **Red Posters**, **R388–R414**
	HS9.4/GM7.14, Quantifying sources and travel times of fine sediment in river basins: techniques, challenges and prospects (co-organized), **Red Posters**, **R415–R428**
	HS10.1, Lakes and inland seas, **Red Posters**, **R429–R445** | Related: PSD19.8, see WE3
	HS10.2, Lakes and climate change – impacts, vulnerability, risk assessment and adaptation strategies, **Red Posters**, **R446–R469**
	HS10.9, Redistribution of rain in forests: Patterns, processes, and interactions at the soil – atmosphere interface, **Red Posters**, **R470–R484**
	SM4.5/HS8.1.9, Imaging the shallow subsurface with seismic and other geophysical methods (co-organized), **Blue Posters**, **B113–B127**
	SSS9.6/GM6.7/HS12.6, The impact of fire on soil properties, runoff generation and sediment transport (co-organized), **Blue Posters**, **B593–B608** | Related: PSD18.4, see WEL

Thursday, 11 April

TH4, 15:30–17:00	**PSD15.5**, GM9.2/HS9.8/NH3.15 - Geomorphic and hydrological processes in proglacial areas under conditions of (rapid) deglaciation, **15:30–16:15**, **Room R12**
TH5, 17:30–19:00	**AS1.4/CL2.11/HS12.1**, Precipitation: Measurement, Climatology, Remote Sensing, and Modeling (General Session) (co-organized), **Blue Posters**, **B797–B862**
	GI1.5, Open session on advances in Data, Methods, Models and Their Applications in Geosciences (co-listed), **Red Posters**, **R124–R140**
	GI2.5, Preparatory activities for the scientific utilisation of the GMES Sentinel satellites constellations including Cal/Val activities of their optical instruments (co-listed), **Red Posters**, **R151–R164**

	GI2.6/HS6.8, Merging hydrologic models and Earth Observation data for reliable information on water (co-organized), **Red Posters**, **R165–R179**
	GM9.2/HS9.8/NH3.15, Geomorphic and hydrological processes in proglacial areas under conditions of (rapid) deglaciation (co-organized), **Blue Posters**, **B410–B427** | Related: PSD15.5, see TH4
	HS2.14, Measuring and modelling surface water – groundwater interactions, **Red Posters**, **R260–R273**
	HS4.3/AS4.20/NH1.13, Ensemble hydro-meteorological forecasting for improved risk management: across scales and applications (co-organized), **Red Posters**, **R274–R297**
	HS4.4, Drought and water scarcity: hydrological monitoring, modelling and forecasting to improve water management, **Red Posters**, **R298–R323**
	HS5.2, Hydrological,hydrochemical and hydroecological monitoring for water resources management in continental areas, **Red Posters**, **R324–R335**
	HS6.1/OS4.9, SMOS: successfully completing 3-years nominal life time (co-organized), **Red Posters**, **R337–R353**
	HS6.2, Remote sensing of soil moisture, **Red Posters**, **R354–R373**
	HS6.5, The Third Pole Environment - Observation and modelling of hydrometeorological processes in high elevation areas, **Red Posters**, **R374–R389**
	HS7.4/AS1.22/CL2.15, Hydrological extremes in a changing climate: Risk and impacts on water infrastructure and insurance costs (co-organized), **Red Posters**, **R390–R405**
	HS7.5/NP8.4, Hydroclimatic stochastics (co-organized), **Red Posters**, **R406–R418**
	HS8.2.2/IG13, Groundwater Dating: Applications and current problems (co-organized), **Red Posters**, **R419–R433**
	HS8.2.4, Thermal processes and storage in shallow aquifers, **Red Posters**, **R434–R444**
	HS8.2.5, Freshwater-saltwater interactions and density-driven flow, **Red Posters**, **R445–R464**
	HS10.5/SSS2.18, Peatland Hydrology (co-organized), **Red Posters**, **R465–R478**
	NP3.2/AS4.17/GM6.6/HS7.7/SM1.7, Geocomplexity: patterns, processes, scaling and extremes in the geosciences (co-organized), **Blue Posters**, **B681–B696**
	NP3.5/AS4.7/CL5.1/HS8.1.10, Geophysical Downscaling Methods (co-organized), **Blue Posters**, **B697–B709**
	SSS2.8, Modeling the experiment, experimenting the models - from experiment to complex processes model (co-listed), **Blue Posters**, **B441–B461** | Related: PSD18.11, see TH3
	SSS6.1, Hydrogeomorphic and Ecological Effects of Roads (co-listed), **Blue Posters**, **B476–B483** | Related: PSD18.5, see THL
Friday, 12 April	
FR2, 10:30–12:00	**HS2.3**, Monitoring Strategies: temporal trends in groundwater and surface water quality and quantity, **Red Posters**, **R208–R217**
	HS2.11, Mountain Hydrology: Monitoring and modeling of snow, **Red Posters**, **R236–R247**

	HS4.2, Hydrological forecasting: challenges in uncertainty estimation, data assimilation, post-processing and decision-making, **Red Posters**, **R268–R276**
	HS4.5, Hydrology for decision-making: the value of forecasts, predictions, scenarios, outlooks and foresights, **Red Posters**, **R277–R304**
	HS6.7, Assimilation of remote sensing data for distributed land surface modeling, **Red Posters**, **R331–R346**
	HS8.2.1, Stochastic groundwater hydrology, **Red Posters**, **R347–R358**
	HS8.2.6, Groundwater resources in a changing environment, **Red Posters**, **R371–R399**
FR3, 13:30–15:00	**HS2.1**, Innovative sensing techniques and data analysis approaches to increase hydrological process understanding, **Red Posters**, **R178–R207**
	HS2.8, Water quality at the catchment scale: monitoring and modeling of micropollutants, **Red Posters**, **R218–R235**
	HS4.1/AS1.21/GM7.6/NH1.7, Flash floods: from observations to risk governance (co-organized), **Red Posters**, **R248–R267**
	HS6.3, High to coarse resolution remote sensing for operational hydrological applications, **Red Posters**, **R305–R312**
	HS6.4, Hydrology and remote sensing: current platforms and the future SWOT mission, **Red Posters**, **R313–R330**
	HS8.2.3, Fissured and karstified aquifers, **Red Posters**, **R359–R370**
	PSD10.1, IG3/HS12.4 - Isotope Techniques for Understanding Elemental Cycling in Catchments: Clues from temporal Dynamics and Spatial Resolution, **13:30–14:15**, **Room B7**
FR4, 15:30–17:00	**IG3/HS12.4**, Isotope Techniques for Understanding Elemental Cycling in Catchments: Clues from temporal Dynamics and Spatial Resolution (co-organized), **Yellow Posters**, **Z316–Z328** | Related: PSD10.1, see FR3
	SSS9.5/GM4.8, Interactions between soils, organisms and hydrogeomorphological processes - understanding landscapes and ecosystems dynamics in response to disturbances regimes (including Arne Richter Award for Outstanding Young Scientists by Simon M. Mudd) (co-listed), **Blue Posters**, **B553–B565**
	SSS10.2, Soil and irrigation sustainability practices (co-listed), **Blue Posters**, **B566–B583**
FR5, 17:30–19:00	**BG2.13/SSS2.3**, Developments in terrestrial biogeochemical models using model-data integration (co-listed), **Green Posters**, **G52–G65**
	CL5.9/BG1.8/EMRP4.3/ERE5.6/GD8.7/GI3.8/GM11.1/GMPV39/HS12.2/NH5.9/OS3.4/SSP1.4, Major achievements and perspectives in scientific ocean and continental drilling (co-organized), **Yellow Posters**, **Z304–Z315**
	SSS0.10/EOS10/BG2.20/HS8.3.11, Soil Science education challenge: what and how do we teach them? (co-organized), **Blue Posters**, **B529–B536**