SSS – Soil System Sciences – Orals

Monday, 28 April	
MO1, 08:30–10:00	**GM1.7**, Non-continuous palaeoenvironmental archives – pros and cons (co-listed), **08:30–10:00**, **Room G2**
	SM2.3/SSS7.18, Earthquake ground-motion - Source, site and path effects (co-organized), **08:30–12:15**, **Room G3**
	SSS2.6, Data acquisition in soil erosion studies in catchments: what are we measuring and why?, **08:30–10:15**, **Room B8**
	SSS10.10/HS8.3.20, Irrigated Agriculture: Natural Resources Management for the Sustainability of the Ecosystem Maintaining Productivity (co-organized), **08:30–15:15**, **Room B9**
	SSS11.7/ESSI3.4/GI3.8, GEMAS - Geochemical mapping of agricultural and grazing land soil in Europe (co-organized), **08:30–12:30**, **Room B6**
MO2, 10:30–12:00	**BG2.3/SSS6.6**, Peatlands and the Carbon Cycle (co-organized), **10:30–17:00**, **Room G5**
	HS10.7/BG2.16, Redistribution of rain in vegetation: Patterns, processes, and interactions at the soil-atmosphere interface (co-listed), **10:30–12:00**, **Room R8**
	PSD9.3, SSS2.6 - Data acquisition in soil erosion studies in catchments: what are we measuring and why?, **10:30–11:15**, **Room B7**
	PSD9.9, SSS7.4/HS8.3.14 - Soil water repellency in a changing climate: occurrence and interactions with extreme meteorological and hydrological events, **10:30–11:15**, **Room B4**
	PSD14.9, AS4.4/BG5.5/CL4.7/SSS.0.14 - Pan Eurasian Experiment (PEEX), **11:30–12:15**, **Room R12**
	PSD19.6, BG2.13/SSS5.11 - Nitrogen cycling in forest landscapes, **10:30–11:15**, **Room R5**
	SM2.3/SSS7.18, Earthquake ground-motion - Source, site and path effects (co-organized), **08:30–12:15**, **Room G3**
	SSS0.17/SC19, Workshop on methods and techniques to study permafrost in a climate change scenario (co-organized), **10:30–12:15**, **Room B5**
	SSS2.5/GM6.10/HS8.3.7/SSP3.1.20, The behaviour of soils, sediments and water within the 3D landscape: The use and mis-use of modelling and other approaches. (co-organized), **10:30–12:15**, **Room B8**
	SSS10.10/HS8.3.20, Irrigated Agriculture: Natural Resources Management for the Sustainability of the Ecosystem Maintaining Productivity (co-organized), **08:30–15:15**, **Room B9**
	SSS11.7/ESSI3.4/GI3.8, GEMAS - Geochemical mapping of agricultural and grazing land soil in Europe (co-organized), **08:30–12:30**, **Room B6**
MO3, 13:30–15:00	**AS4.4/BG5.5/CL4.7/SSS.0.14**, Pan Eurasian Experiment (PEEX) (co-organized), **13:30–15:00**, **Room B11**
	BG2.3/SSS6.6, Peatlands and the Carbon Cycle (co-organized), **10:30–17:00**, **Room G5**
	BG2.13/SSS5.11, Nitrogen cycling in forest landscapes (co-organized), **13:30–17:00**, **Room G4**
	SSS4.1, Modification of soils by plants: sustainability by design, **13:30–15:15**, **Room B6**
	SSS7.4/HS8.3.14, Soil water repellency in a changing climate: occurrence and interactions with extreme meteorological and hydrological events (co-organized), **13:30–17:15**, **Room B8**

	SSS10.10/HS8.3.20, Irrigated Agriculture: Natural Resources Management for the Sustainability of the Ecosystem Maintaining Productivity (co-organized), **08:30–15:15**, **Room B9**
MO4, 15:30–17:00	**BG2.3/SSS6.6**, Peatlands and the Carbon Cycle (co-organized), **10:30–17:00**, **Room G5**
	BG2.13/SSS5.11, Nitrogen cycling in forest landscapes (co-organized), **13:30–17:00**, **Room G4**
	HS6.7, Remote sensing of soil moisture (co-listed), **15:30–17:00**, **Room R4**
	PSD9.12, SSS10.10/HS8.3.20 - Irrigated Agriculture: Natural Resources Management for the Sustainability of the Ecosystem Maintaining Productivity, **15:30–16:15**, **Room R5**
	SSS4.9, Soil pore network structure, aggregate dynamics and microbial functioning, **15:30–17:15**, **Room B9**
	SSS7.4/HS8.3.14, Soil water repellency in a changing climate: occurrence and interactions with extreme meteorological and hydrological events (co-organized), **13:30–17:15**, **Room B8**
	SSS11.4, Sampling, Sensing, and Digital Soil Mapping, **15:30–17:15**, **Room B6**

Tuesday, 29 April

TU1, 08:30–10:00	**GM1.9/SSS0.16**, Landforms and Geodiversity (co-organized), **08:30–10:00**, **Room G2**
	GMPV6/SSP2.5/SSS3.7, Spatially resolved geochronology, tracer isotopes and trace element geochemistry (co-organized), **08:30–10:00**, **Room G13**
	HS8.1.2, Hydrogeophysics: From non-invasive site characterization to improved process understanding (co-listed), **08:30–10:00**, **Room R1**
	HS9.2/GM7.8/SSS7.20, Modeling the experiment, experimenting the models: experiment and model to connect geophysical flows from grains to landscapes (co-organized), **08:30–12:00**, **Room Y1**
	HS10.6, Peatland Hydrology (co-listed), **08:30–12:00**, **Room R8**
	NP3.1/CL6.12/SSS0.6, Scales, scaling and extremes in the geosciences (co-organized), **08:30–12:15**, **Room B10**
	SSS0.4/HS8.3.10, Spatial and Temporal Patterns in Soil Systems: Monitoring, Modeling and Characterization of Soil Water Contents and coupled biogeochemical properties (co-organized), **08:30–10:15**, **Room B6**
	SSS0.8/BG9.6/ESSI1.10/GI3.10/GM2.5/GMPV60/HS8.3.6/SSP3.1.18/TS9.14, Platforms, Sensors and Applications with Unmanned Aerial Systems in the geosciences (co-organized), **08:30–12:15**, **Room B5**
	SSS1.3, Soil mapping, classification, and modelling: history and future directions, **08:30–17:15**, **Room B9**
	SSS7.2/GM6.12/HS8.3.8, Dynamic soil properties for understanding flow and transport in the landscape (co-organized), **08:30–10:00**, **Room B8**
TU2, 10:30–12:00	**GI1.4**, Geoscience processes related to Fukushima nuclear accident (co-listed), **10:30–17:00**, **Room B2**
	HS9.2/GM7.8/SSS7.20, Modeling the experiment, experimenting the models: experiment and model to connect geophysical flows from grains to landscapes (co-organized), **08:30–12:00**, **Room Y1**
	HS10.6, Peatland Hydrology (co-listed), **08:30–12:00**, **Room R8**

	NP3.1/CL6.12/SSS0.6, Scales, scaling and extremes in the geosciences (co-organized), **08:30–12:15**, **Room B10**
	PSD9.8, SSS7.2/GM6.12/HS8.3.8 - Dynamic soil properties for understanding flow and transport in the landscape, **10:30–11:15**, **Room B7**
	PSD19.4, BG2.4/SSS9.21 - Fire in the Earth System, **10:30–11:15**, **Room R7**
	SSS0.8/BG9.6/ESSI1.10/GI3.10/GM2.5/GMPV60/HS8.3.6/SSP3.1.18/TS9.14, Platforms, Sensors and Applications with Unmanned Aerial Systems in the geosciences (co-organized), **08:30–12:15**, **Room B5**
	SSS1.3, Soil mapping, classification, and modelling: history and future directions, **08:30–17:15**, **Room B9**
	SSS7.6, Physical and chemical properties of soils and substrates - invasive and non-invasive methods for it's characterisation, **10:30–12:15**, **Room B8**
	SSS9.12/BG2.18/GM4.7/HS8.3.23, Coevolution of soils, landforms and vegetation: ecosystem stability thresholds and critical zone observatories (co-organized), **10:30–17:15**, **Room B6**
TUL, 12:15–13:15	**PSD9.10**, SSS7.6 - Physical and chemical properties of soils and substrates - invasive and non-invasive methods for it's characterisation, **12:15–13:00**, **Room B7**
TU3, 13:30–15:00	**GI1.4**, Geoscience processes related to Fukushima nuclear accident (co-listed), **10:30–17:00**, **Room B2**
	PSD5.3, GM1.9/SSS0.16 - Landforms and Geodiversity, **13:30–14:15**, **Room B7**
	SSS0.3, Geosciences and wine: the environmental processes that regulate the terroir effect in space and time, **13:30–17:15**, **Room B5**
	SSS1.3, Soil mapping, classification, and modelling: history and future directions, **08:30–17:15**, **Room B9**
	SSS2.11/GM4.6, Dynamic Soil Landscapes: coupling soils, landscape evolution and biogeochemical cycles (co-organized), **13:30–17:15**, **Room B11**
	SSS6.5, Biochar and organic waste in soils: global warming mitigation and SOM quality, **13:30–17:15**, **Room B8**
	SSS9.12/BG2.18/GM4.7/HS8.3.23, Coevolution of soils, landforms and vegetation: ecosystem stability thresholds and critical zone observatories (co-organized), **10:30–17:15**, **Room B6**
TU4, 15:30–17:00	**GI1.4**, Geoscience processes related to Fukushima nuclear accident (co-listed), **10:30–17:00**, **Room B2**
	SSS0.3, Geosciences and wine: the environmental processes that regulate the terroir effect in space and time, **13:30–17:15**, **Room B5**
	SSS1.3, Soil mapping, classification, and modelling: history and future directions, **08:30–17:15**, **Room B9**
	SSS2.11/GM4.6, Dynamic Soil Landscapes: coupling soils, landscape evolution and biogeochemical cycles (co-organized), **13:30–17:15**, **Room B11**
	SSS6.5, Biochar and organic waste in soils: global warming mitigation and SOM quality, **13:30–17:15**, **Room B8**
	SSS9.12/BG2.18/GM4.7/HS8.3.23, Coevolution of soils, landforms and vegetation: ecosystem stability thresholds and critical zone observatories (co-organized), **10:30–17:15**, **Room B6**
TU5, 17:30–19:00	**PSD9.4**, SSS2.7 - Soil erosion and desertification processes in Mediterranean areas, **17:30–18:15**, **Room B7**
TU6, 19:00–20:00	**ML28**, Philippe Duchaufour Medal Lecture by Johan Six (co-listed), **19:00–20:00**, **Room B9**

Wednesday, 30 April	
WE1, 08:30–10:00	**GMPV7**, High-pressure and high-temperature mineral physics: a link between petrology, geophysics and geodynamics (co-sponsored by AGU-VGP) (co-listed), **08:30–10:15**, **Room G13**
	SSS2.1, World land Degradation and Desertification. A human and biophysical approach, **08:30–10:15**, **Room B5**
	SSS4.5, Soil biota, community analysis and cycles/processes, **08:30–12:15**, **Room B11**
	SSS5.3, Fire impacts on physical and chemical properties of ash, soils, and thermal analysis in soil science, **08:30–10:15**, **Room B9**
	SSS6.14/IG15, Dissolved organic matter – linking soils and aquatic systems (co-organized), **08:30–10:15**, **Room B8**
	SSS9.9/GM6.3/HS9.14/SSP3.1.23, Connectivity in hydrology and sediment dynamics: how do we move forwards? (co-organized), **08:30–12:15**, **Room B6**
WE2, 10:30–12:00	**BG2.6/SSS4.10**, Biogeochemistry and ecohydrology of arid and semi-arid ecosystems (co-organized), **10:30–12:00**, **Room G5**
	SSS2.7, Soil erosion and desertification processes in Mediterranean areas, **10:30–17:15**, **Room B5**
	SSS4.5, Soil biota, community analysis and cycles/processes, **08:30–12:15**, **Room B11**
	SSS6.7, Land use change and land management impacts on soil organic carbon: From process understanding to regional assessments, **10:30–15:15**, **Room B8**
	SSS9.4, Recent advances in the knowledge and methods for assessing fire impact on vegetation, soil and water quality in recent burnt areas, **10:30–12:15**, **Room B9**
	SSS9.9/GM6.3/HS9.14/SSP3.1.23, Connectivity in hydrology and sediment dynamics: how do we move forwards? (co-organized), **08:30–12:15**, **Room B6**
WEL, 12:15–13:15	**PSD9.14**, SSS3.1/GM1.13/SSP3.1.21 - Soil and sediments micromorphology: reconstruction of palaeoenvironments, anthropogenic processes, or more recent human impact on ecosystems, **12:15–13:00**, **Room B7**
WE3, 13:30–15:00	**BG2.4/SSS9.21**, Fire in the Earth System (co-organized), **13:30–17:00**, **Room G5**
	GM4.5/SSS9.19, Global change and geomorphic processes in the Horn of Africa (co-organized), **13:30–15:00**, **Room G10**
	PSD9.7, SSS3.3 - Use of soil records in geoecology and landscape archaeology, **13:30–14:15**, **Room B4**
	PSD16.31, TS9.2/GI3.12/GM2.4/SSP3.2.11/SSS11.9 - Digital Field Mapping (Posters only), **14:30–15:15**, **Room R5**
	SSS2.7, Soil erosion and desertification processes in Mediterranean areas, **10:30–17:15**, **Room B5**
	SSS3.1/GM1.13/SSP3.1.21, Soil and sediments micromorphology: reconstruction of palaeoenvironments, anthropogenic processes, or more recent human impact on ecosystems (co-organized), **13:30–15:15**, **Room B11**
	SSS5.4, Geochemical processes and C sequestration in peatlands and organic soils, **13:30–15:15**, **Room B9**
	SSS6.7, Land use change and land management impacts on soil organic carbon: From process understanding to regional assessments, **10:30–15:15**, **Room B8**

	SSS10.3, Organic farming and Soil management, **13:30–15:15**, **Room B6**
WE4, 15:30–17:00	**BG2.4/SSS9.21**, Fire in the Earth System (co-organized), **13:30–17:00**, **Room G5**
	PSD9.11, SSS9.4 - Recent advances in the knowledge and methods for assessing fire impact on vegetation, soil and water quality in recent burnt areas, **15:30–16:15**, **Room B7**
	SSS2.7, Soil erosion and desertification processes in Mediterranean areas, **10:30–17:15**, **Room B5**
	SSS3.3, Use of soil records in geoecology and landscape archaeology, **15:30–17:15**, **Room B11**
	SSS5.5, Soils in temperate and cold climate regions, **15:30–17:15**, **Room B9**
	SSS6.4/BG9.3, Carbon sequestration in agricultural soils: the need for a landscape scale approach (co-organized), **15:30–17:15**, **Room B8**
	SSS10.8, How scientific results can improve sustainable agriculture, **15:30–17:15**, **Room B6**

Thursday, 01 May

TH1, 08:30–10:00	**AS2.1/BG5.2/SSS0.13**, Air-Land Interactions (General Session) (co-sponsored by iLEAPS) (co-organized), **08:30–12:00**, **Room B15**
	BG2.7/SSS10.6, Climate extremes, ecosystems and biogeochemical cycles (co-organized), **08:30–12:00**, **Room G5**
	CL6.9/GM1.10/SSS3.8, Advances in Quaternary Geochronology (co-organized), **08:30–10:00**, **Room Y6**
	GM4.1/HS9.12/SSS9.18, Human-Earth interaction from the Pleistocene to the Anthropocene: state of the science and future direction (co-organized) (co-organized), **08:30–15:03**, **Room G10**
	HS8.1.4/SSS7.16, Parameter Estimation, Inverse Modelling and Data Assimilation in Subsurface Hydrology (co-organized), **08:30–12:00**, **Room R4**
	HS8.1.8, The role of interfaces in flow and transport in porous media (co-listed), **08:30–10:00**, **Room R13**
	SSS2.2/BG2.14, Arid Lands Restoration & Combat of Desertification: Theory and Practice in Vegetation Reestablishment and Sustainable Land Management (co-organized), **08:30–12:00**, **Room B6**
	SSS4.7, Biotic and abiotic drivers of humification and mineralisation under changing climate, **08:30–15:15**, **Room B11**
	SSS5.6, Reflectance and fluorescence spectroscopy in soil science – current and future research and developments, **08:30–12:15**, **Room B8**
	SSS6.1/GM4.9/HS8.3.12, Soil carbon sequestration and greenhouse gas emissions: sources, mechanisms, processes and management practices effects (co-organized), **08:30–12:15**, **Room B5**
	SSS7.21/SC20, Short course on soil water measurements (co-organized), **08:30–10:00**, **Room B4**
TH2, 10:30–12:00	**AS2.1/BG5.2/SSS0.13**, Air-Land Interactions (General Session) (co-sponsored by iLEAPS) (co-organized), **08:30–12:00**, **Room B15**
	BG2.7/SSS10.6, Climate extremes, ecosystems and biogeochemical cycles (co-organized), **08:30–12:00**, **Room G5**
	GM4.1/HS9.12/SSS9.18, Human-Earth interaction from the Pleistocene to the Anthropocene: state of the science and future direction (co-organized) (co-organized), **08:30–15:03**, **Room G10**
	HS8.1.4/SSS7.16, Parameter Estimation, Inverse Modelling and Data Assimilation in Subsurface Hydrology (co-organized), **08:30–12:00**, **Room R4**

	SSS2.2/BG2.14, Arid Lands Restoration & Combat of Desertification: Theory and Practice in Vegetation Reestablishment and Sustainable Land Management (co-organized), **08:30–12:00**, **Room B6**
	SSS4.7, Biotic and abiotic drivers of humification and mineralisation under changing climate, **08:30–15:15**, **Room B11**
	SSS5.6, Reflectance and fluorescence spectroscopy in soil science – current and future research and developments, **08:30–12:15**, **Room B8**
	SSS6.1/GM4.9/HS8.3.12, Soil carbon sequestration and greenhouse gas emissions: sources, mechanisms, processes and management practices effects (co-organized), **08:30–12:15**, **Room B5**
	SSS10.11/SC21, Short Course on Forest Fire Effects on Soil Properties (co-organized), **10:30–12:00**, **Room B7**
THL, 12:15–13:15	**PSD9.2**, SSS2.2/BG2.14 - Arid Lands Restoration & Combat of Desertification: Theory and Practice in Vegetation Reestablishment and Sustainable Land Management, **12:15–13:00**, **Room B7**
TH3, 13:30–15:00	**GM4.1/HS9.12/SSS9.18**, Human-Earth interaction from the Pleistocene to the Anthropocene: state of the science and future direction (co-organized) (co-organized), **08:30–15:03**, **Room G10**
	HS5.6, Water and food security: integrating perspectives from geophysics and social sciences (co-listed), **13:30–17:00**, **Room R8**
	HS8.1.7, Fate and transport of biocolloids and nanoparticles in soil and groundwater systems (co-listed), **13:30–17:00**, **Room R6**
	SSS2.3/HS8.3.11, Soil and water conservation for sustainable land management (co-organized), **13:30–15:15**, **Room B6**
	SSS4.7, Biotic and abiotic drivers of humification and mineralisation under changing climate, **08:30–15:15**, **Room B11**
	SSS6.15, Strategies for effective soil carbon sequestration through synergies in pyrogenic carbon, charcoal and biochar research, **13:30–17:15**, **Room B8**
	SSS11.1/ESSI3.6, Communication of uncertainty about information in earth sciences (co-organized), **13:30–15:15**, **Room B5**
TH4, 15:30–17:00	**GM4.4/BG1.10/SSS4.11**, Biogeomorphology: Exploring the complexity and diversity of biotic-abiotic interactions in Earth surface systems (co-organized), **15:30–17:00**, **Room G2**
	HS5.6, Water and food security: integrating perspectives from geophysics and social sciences (co-listed), **13:30–17:00**, **Room R8**
	HS8.1.7, Fate and transport of biocolloids and nanoparticles in soil and groundwater systems (co-listed), **13:30–17:00**, **Room R6**
	PSD20.12, GD8.1/CL2.4/EMRP4.12/GMPV63/SM4.9/SSS7.17 - Integrated Geophysical Observations and Modeling in Geodynamics, **16:30–17:15**, **Room B7**
	SSS0.5, African Soils: challenges and opportunities, **15:30–17:15**, **Room B6**
	SSS1.2/GM1.12, Geoheritage: Integrating geo- and biodiversity research (co-organized), **15:30–17:15**, **Room B11**
	SSS6.15, Strategies for effective soil carbon sequestration through synergies in pyrogenic carbon, charcoal and biochar research, **13:30–17:15**, **Room B8**
	SSS8.3, Remediation and restoration of contaminated and degraded soils, **15:30–17:15**, **Room B5**

Friday, 02 May	
FR1, 08:30–10:00	**AS4.9/CL5.6/GM5.2/SSS9.16**, Aeolian dust: Initiator, Player, and Recorder of Environmental Change (co-organized), **08:30–10:00**, **Room B10**
	BG2.5/SSS7.19, Earth observation for monitoring and modeling the global energy, water and carbon cycles over land using model-data integration (co-organized), **08:30–12:00**, **Room G4**
	HS8.3.3/SSS7.13, Patterns in Soil-Vegetation-Atmosphere Systems: Monitoring, Modelling, and Data Assimilation (co-organized), **08:30–10:00**, **Room R4**
	HS9.7/GM7.7/SSP3.1.17/SSS7.10, Revisiting techniques for quantifying sources and travel times of fine sediment from catchment to coast (co-organized), **08:30–10:00**, **Room R8**
	SSS2.10/BG9.7/GM4.8/HS8.3.9/NH3.9, How vegetation influences soil erosion and slope stability: monitoring and modeling eco-hydrological and geo-mechanical factors (co-organized), **08:30–12:15**, **Room B6**
	SSS6.3, Functionality, stability and pool sizes of organic carbon in sub- versus topsoils, **08:30–10:15**, **Room B8**
	SSS8.1, Soil pollution and remediation, **08:30–17:15**, **Room B9**
	TS2.3/EMRP4.7/ERE2.6/SSS7.11, Flow and Transformation in Porous Media or Brittle Structures: Models, Experiments and Applications (co-organized), **08:30–17:00**, **Room B1**
FR2, 10:30–12:00	**BG2.5/SSS7.19**, Earth observation for monitoring and modeling the global energy, water and carbon cycles over land using model-data integration (co-organized), **08:30–12:00**, **Room G4**
	GD8.1/CL2.4/EMRP4.12/GMPV63/SM4.9/SSS7.17, Integrated Geophysical Observations and Modeling in Geodynamics (co-organized), **10:30–17:00**, **Room G7**
	HS8.3.5/SSS7.12, Estimation of soil-atmosphere and vadose zone water fluxes by use of precision lysimeter measurements (co-organized), **10:30–12:00**, **Room R4**
	IG6/BG9.9/SSS9.17, Applications of non-traditional stable isotopes in the terrestrial and aquatic environment & Past and present climate: the continental isotopic record (co-organized), **10:30–12:00**, **Room R14**
	PSD9.1, SSS1.5 - Teaching and Communicating Science: Soils and geosciences, **10:30–11:15**, **Room B4**
	PSD9.13, SSS11.1/ESSI3.6 - Communication of uncertainty about information in earth sciences, **10:30–11:15**, **Room B7**
	SSS2.10/BG9.7/GM4.8/HS8.3.9/NH3.9, How vegetation influences soil erosion and slope stability: monitoring and modeling eco-hydrological and geo-mechanical factors (co-organized), **08:30–12:15**, **Room B6**
	SSS6.8, Studying soil organic carbon in Mediterranean soils. Different techniques and the effects of land management and use, climatic and topographic conditions, and organic waste addition, **10:30–12:15**, **Room B8**
	SSS8.1, Soil pollution and remediation, **08:30–17:15**, **Room B9**
	TS2.3/EMRP4.7/ERE2.6/SSS7.11, Flow and Transformation in Porous Media or Brittle Structures: Models, Experiments and Applications (co-organized), **08:30–17:00**, **Room B1**

FR3, 13:30–15:00	**GD8.1/CL2.4/EMRP4.12/GMPV63/SM4.9/SSS7.17**, Integrated Geophysical Observations and Modeling in Geodynamics (co-organized), **10:30–17:00**, **Room G7**
	HS8.3.2/SSS7.14, Monitoring and modelling transfer processes in the soil-plant-atmosphere continuum across scales (co-organized), **13:30–17:00**, **Room R4**
	SSP3.1.6, Geophysical and geochemical tools in sedimentology; reconstruction of redox conditions; ocean acidification (co-listed), **13:30–15:00**, **Room B2**
	SSS1.5, Teaching and Communicating Science: Soils and geosciences, **13:30–15:15**, **Room B6**
	SSS5.2/GMPV15, Processes at the weathering front and reactivity of soil minerals (co-organized), **13:30–15:15**, **Room B8**
	SSS8.1, Soil pollution and remediation, **08:30–17:15**, **Room B9**
	TS2.3/EMRP4.7/ERE2.6/SSS7.11, Flow and Transformation in Porous Media or Brittle Structures: Models, Experiments and Applications (co-organized), **08:30–17:00**, **Room B1**
FR4, 15:30–17:00	**AS4.1/BG5.4/CL5.14**, Chemistry-Climate Interactions, and Metrics to Inform Climate and Environmental Policies and Assessments (co-listed), **15:30–17:00**, **Room B11**
	GD8.1/CL2.4/EMRP4.12/GMPV63/SM4.9/SSS7.17, Integrated Geophysical Observations and Modeling in Geodynamics (co-organized), **10:30–17:00**, **Room G7**
	HS8.3.2/SSS7.14, Monitoring and modelling transfer processes in the soil-plant-atmosphere continuum across scales (co-organized), **13:30–17:00**, **Room R4**
	PSD9.5, SSS2.10/BG9.7/GM4.8/HS8.3.9/NH3.9 - How vegetation influences soil erosion and slope stability: monitoring and modeling eco-hydrological and geo-mechanical factors, **15:30–16:15**, **Room B7**
	SSS8.1, Soil pollution and remediation, **08:30–17:15**, **Room B9**
	SSS9.8, Novel sorbent materials for environmental remediation, **15:30–17:15**, **Room B8**
	SSS11.8, Measuring and modelling spatial and temporal variability of soil properties and processes related to human activities, **15:30–17:15**, **Room B6**
	TS2.3/EMRP4.7/ERE2.6/SSS7.11, Flow and Transformation in Porous Media or Brittle Structures: Models, Experiments and Applications (co-organized), **08:30–17:00**, **Room B1**

SSS – Soil System Sciences – PICOs

Friday, 02 May	
FR1, 08:30–10:00	**SSS0.1**, Milestones in Soil Science: Senior and junior soil scientists share their perspectives on the leading problems of soil science today, **PICO Spot 1**
FR2, 10:30–12:00	**SSS0.1**, Milestones in Soil Science: Senior and junior soil scientists share their perspectives on the leading problems of soil science today, **PICO Spot 1**

SSS – Soil System Sciences – Posters

Monday, 28 April	
MO2, 10:30–12:00	**PSD9.3**, SSS2.6 - Data acquisition in soil erosion studies in catchments: what are we measuring and why?, **10:30–11:15**, **Room B7**
	PSD9.9, SSS7.4/HS8.3.14 - Soil water repellency in a changing climate: occurrence and interactions with extreme meteorological and hydrological events, **10:30–11:15**, **Room B4**
	PSD14.9, AS4.4/BG5.5/CL4.7/SSS.0.14 - Pan Eurasian Experiment (PEEX), **11:30–12:15**, **Room R12**
	PSD19.6, BG2.13/SSS5.11 - Nitrogen cycling in forest landscapes, **10:30–11:15**, **Room R5**
MO4, 15:30–17:00	**PSD9.12**, SSS10.10/HS8.3.20 - Irrigated Agriculture: Natural Resources Management for the Sustainability of the Ecosystem Maintaining Productivity, **15:30–16:15**, **Room R5**
MO5, 17:30–19:00	**AS4.4/BG5.5/CL4.7/SSS.0.14**, Pan Eurasian Experiment (PEEX) (co-organized), **Yellow Posters**, **Z166–Z179** | Related: PSD14.9, see MO2
	BG2.3/SSS6.6, Peatlands and the Carbon Cycle (co-organized), **Green Posters**, **G29–G50**
	BG2.13/SSS5.11, Nitrogen cycling in forest landscapes (co-organized), **Green Posters**, **G66–G88** | Related: PSD19.6, see MO2
	GI1.4, Geoscience processes related to Fukushima nuclear accident (co-listed), **Red Posters**, **R80–R117** | Related: PSD11.1, see MO4
	GM1.7, Non-continuous palaeoenvironmental archives – pros and cons (co-listed), **Blue Posters**, **B377–B391**
	HS6.7, Remote sensing of soil moisture (co-listed), **Red Posters**, **R308–R324**
	HS10.7/BG2.16, Redistribution of rain in vegetation: Patterns, processes, and interactions at the soil-atmosphere interface (co-listed), **Red Posters**, **R446–R458**
	SM2.3/SSS7.18, Earthquake ground-motion - Source, site and path effects (co-organized), **Blue Posters**, **B594–B608**
	SSS2.5/GM6.10/HS8.3.7/SSP3.1.20, The behaviour of soils, sediments and water within the 3D landscape: The use and mis-use of modelling and other approaches. (co-organized), **Blue Posters**, **B1–B17**
	SSS2.6, Data acquisition in soil erosion studies in catchments: what are we measuring and why?, **Blue Posters**, **B18–B30** | Related: PSD9.3, see MO2
	SSS4.1, Modification of soils by plants: sustainability by design, **Blue Posters**, **B31–B39**
	SSS4.9, Soil pore network structure, aggregate dynamics and microbial functioning, **Blue Posters**, **B40–B55**
	SSS7.4/HS8.3.14, Soil water repellency in a changing climate: occurrence and interactions with extreme meteorological and hydrological events (co-organized), **Blue Posters**, **B56–B71** | Related: PSD9.9, see MO2
	SSS10.10/HS8.3.20, Irrigated Agriculture: Natural Resources Management for the Sustainability of the Ecosystem Maintaining Productivity (co-organized), **Blue Posters**, **B72–B105** | Related: PSD9.12, see MO4
	SSS11.4, Sampling, Sensing, and Digital Soil Mapping, **Blue Posters**, **B106–B122**
	SSS11.7/ESSI3.4/GI3.8, GEMAS - Geochemical mapping of agricultural and grazing land soil in Europe (co-organized), **Blue Posters**, **B123–B139**

Tuesday, 29 April	
TU2, 10:30–12:00	**PSD9.8**, SSS7.2/GM6.12/HS8.3.8 - Dynamic soil properties for understanding flow and transport in the landscape, **10:30–11:15**, **Room B7**
	PSD19.4, BG2.4/SSS9.21 - Fire in the Earth System, **10:30–11:15**, **Room R7**
TUL, 12:15–13:15	**PSD9.10**, SSS7.6 - Physical and chemical properties of soils and substrates - invasive and non-invasive methods for it's characterisation, **12:15–13:00**, **Room B7**
TU3, 13:30–15:00	**PSD5.3**, GM1.9/SSS0.16 - Landforms and Geodiversity, **13:30–14:15**, **Room B7**
TU5, 17:30–19:00	**GM1.9/SSS0.16**, Landforms and Geodiversity (co-organized), **Blue Posters**, **B371–B390** | Related: PSD5.3, see TU3
	GMPV6/SSP2.5/SSS3.7, Spatially resolved geochronology, tracer isotopes and trace element geochemistry (co-organized), **Blue Posters**, **B656–B667**
	HS8.1.2, Hydrogeophysics: From non-invasive site characterization to improved process understanding (co-listed), **Red Posters**, **R353–R370**
	HS8.1.6/SM5.3/SSP3.2.5/TS2.5, Fluid processes on different spatiotemporal scales: from colloids to sedimentary basins (co-listed), **Red Posters**, **R383–R394** | Related: PSD21.8, see TU3
	HS10.6, Peatland Hydrology (co-listed), **Red Posters**, **R460–R482**
	SSS0.3, Geosciences and wine: the environmental processes that regulate the terroir effect in space and time, **Blue Posters**, **B95–B113**
	SSS0.4/HS8.3.10, Spatial and Temporal Patterns in Soil Systems: Monitoring, Modeling and Characterization of Soil Water Contents and coupled biogeochemical properties (co-organized), **Blue Posters**, **B114–B128**
	SSS0.8/BG9.6/ESSI1.10/GI3.10/GM2.5/GMPV60/HS8.3.6/SSP3.1.18/TS9.14, Platforms, Sensors and Applications with Unmanned Aerial Systems in the geosciences (co-organized), **Blue Posters**, **B129–B151**
	SSS1.3, Soil mapping, classification, and modelling: history and future directions, **Blue Posters**, **B152–B178**
	SSS2.7, Soil erosion and desertification processes in Mediterranean areas, **Blue Posters**, **B179–B201** | Related: PSD9.4, see TU5
	SSS2.11/GM4.6, Dynamic Soil Landscapes: coupling soils, landscape evolution and biogeochemical cycles (co-organized), **Blue Posters**, **B202–B218**
	SSS6.5, Biochar and organic waste in soils: global warming mitigation and SOM quality, **Blue Posters**, **B219–B235**
	SSS7.2/GM6.12/HS8.3.8, Dynamic soil properties for understanding flow and transport in the landscape (co-organized), **Blue Posters**, **B236–B250** | Related: PSD9.8, see TU2
	SSS7.6, Physical and chemical properties of soils and substrates - invasive and non-invasive methods for it's characterisation, **Blue Posters**, **B251–B266** | Related: PSD9.10, see TUL
	SSS9.12/BG2.18/GM4.7/HS8.3.23, Coevolution of soils, landforms and vegetation: ecosystem stability thresholds and critical zone observatories (co-organized), **Blue Posters**, **B267–B290**
TU5, 17:30–19:00	**PSD9.4**, SSS2.7 - Soil erosion and desertification processes in Mediterranean areas, **17:30–18:15**, **Room B7**

Wednesday, 30 April	
WEL, 12:15–13:15	**PSD9.14**, SSS3.1/GM1.13/SSP3.1.21 - Soil and sediments micromorphology: reconstruction of palaeoenvironments, anthropogenic processes, or more recent human impact on ecosystems, **12:15–13:00**, **Room B7**
WE3, 13:30–15:00	**BG2.6/SSS4.10**, Biogeochemistry and ecohydrology of arid and semi-arid ecosystems (co-organized), **Green Posters**, **G62–G74**
	PSD9.7, SSS3.3 - Use of soil records in geoecology and landscape archaeology, **13:30–14:15**, **Room B4**
	PSD16.31, TS9.2/GI3.12/GM2.4/SSP3.2.11/SSS11.9 - Digital Field Mapping (Posters only), **14:30–15:15**, **Room R5**
WE4, 15:30–17:00	**GMPV7**, High-pressure and high-temperature mineral physics: a link between petrology, geophysics and geodynamics (co-sponsored by AGU-VGP) (co-listed), **Blue Posters**, **B603–B618**
	PSD9.11, SSS9.4 - Recent advances in the knowledge and methods for assessing fire impact on vegetation, soil and water quality in recent burnt areas, **15:30–16:15**, **Room B7**
	TS9.2/GI3.12/GM2.4/SSP3.2.11/SSS11.9, Digital Field Mapping (Posters only) (co-organized), **Blue Posters**, **B523–B535** | Related: PSD16.31, see WE3
WE5, 17:30–19:00	**BG2.4/SSS9.21**, Fire in the Earth System (co-organized), **Green Posters**, **G49–G61** | Related: PSD19.4, see TU2
	BG2.7/SSS10.6, Climate extremes, ecosystems and biogeochemical cycles (co-organized), **Green Posters**, **G75–G89**
	GM4.5/SSS9.19, Global change and geomorphic processes in the Horn of Africa (co-organized), **Blue Posters**, **B353–B370**
	NP3.1/CL6.12/SSS0.6, Scales, scaling and extremes in the geosciences (co-organized), **Blue Posters**, **B828–B855**
	SSS3.1/GM1.13/SSP3.1.21, Soil and sediments micromorphology: reconstruction of palaeoenvironments, anthropogenic processes, or more recent human impact on ecosystems (co-organized), **Blue Posters**, **B1–B6** | Related: PSD9.14, see WEL
	SSS3.3, Use of soil records in geoecology and landscape archaeology, **Blue Posters**, **B7–B19** | Related: PSD9.7, see WE3
	SSS4.5, Soil biota, community analysis and cycles/processes, **Blue Posters**, **B20–B42**
	SSS5.3, Fire impacts on physical and chemical properties of ash, soils, and thermal analysis in soil science, **Blue Posters**, **B43–B59**
	SSS5.4, Geochemical processes and C sequestration in peatlands and organic soils, **Blue Posters**, **B60–B71**
	SSS5.5, Soils in temperate and cold climate regions, **Blue Posters**, **B72–B86**
	SSS6.4/BG9.3, Carbon sequestration in agricultural soils: the need for a landscape scale approach (co-organized), **Blue Posters**, **B87–B97**
	SSS6.7, Land use change and land management impacts on soil organic carbon: From process understanding to regional assessments, **Blue Posters**, **B98–B113**
	SSS6.14/IG15, Dissolved organic matter – linking soils and aquatic systems (co-organized), **Blue Posters**, **B114–B127**
	SSS9.4, Recent advances in the knowledge and methods for assessing fire impact on vegetation, soil and water quality in recent burnt areas, **Blue Posters**, **B128–B149** | Related: PSD9.11, see WE4

	SSS9.9/GM6.3/HS9.14/SSP3.1.23, Connectivity in hydrology and sediment dynamics: how do we move forwards? (co-organized), **Blue Posters**, **B150–B174**
	SSS10.3, Organic farming and Soil management, **Blue Posters**, **B175–B194**
	SSS10.8, How scientific results can improve sustainable agriculture, **Blue Posters**, **B195–B217**

Thursday, 01 May

THL, 12:15–13:15	**PSD9.2**, SSS2.2/BG2.14 - Arid Lands Restoration & Combat of Desertification: Theory and Practice in Vegetation Reestablishment and Sustainable Land Management, **12:15–13:00**, **Room B7**
TH4, 15:30–17:00	**PSD20.12**, GD8.1/CL2.4/EMRP4.12/GMPV63/SM4.9/SSS7.17 - Integrated Geophysical Observations and Modeling in Geodynamics, **16:30–17:15**, **Room B7**
TH5, 17:30–19:00	**AS2.1/BG5.2/SSS0.13**, Air-Land Interactions (General Session) (co-sponsored by iLEAPS) (co-organized), **Yellow Posters**, **Z79–Z105**
	BG1.1/AS4.26/CL5.15/ERE5.5/HS10.9/IG10/OS3.4/SSP4.7/SSS4.12, Open session on Biogeosciences (Posters only) (Sponsored by PalAss) (co-organized), **Green Posters**, **G1–G39**
	CL6.9/GM1.10/SSS3.8, Advances in Quaternary Geochronology (co-organized), **Yellow Posters**, **Z354–Z372**
	GM4.1/HS9.12/SSS9.18, Human-Earth interaction from the Pleistocene to the Anthropocene: state of the science and future direction (co-organized) (co-organized), **Blue Posters**, **B243–B279**
	GM4.4/BG1.10/SSS4.11, Biogeomorphology: Exploring the complexity and diversity of biotic-abiotic interactions in Earth surface systems (co-organized), **Blue Posters**, **B280–B297**
	HS5.6, Water and food security: integrating perspectives from geophysics and social sciences (co-listed), **Red Posters**, **R247–R264**
	HS8.1.4/SSS7.16, Parameter Estimation, Inverse Modelling and Data Assimilation in Subsurface Hydrology (co-organized), **Red Posters**, **R287–R302**
	HS8.1.7, Fate and transport of biocolloids and nanoparticles in soil and groundwater systems (co-listed), **Red Posters**, **R303–R317**
	HS8.1.8, The role of interfaces in flow and transport in porous media (co-listed), **Red Posters**, **R318–R332**
	HS9.2/GM7.8/SSS7.20, Modeling the experiment, experimenting the models: experiment and model to connect geophysical flows from grains to landscapes (co-organized), **Red Posters**, **R349–R376**
	SSS0.5, African Soils: challenges and opportunities, **Blue Posters**, **B1–B14**
	SSS1.2/GM1.12, Geoheritage: Integrating geo- and biodiversity research (co-organized), **Blue Posters**, **B15–B29**
	SSS2.2/BG2.14, Arid Lands Restoration & Combat of Desertification: Theory and Practice in Vegetation Reestablishment and Sustainable Land Management (co-organized), **Blue Posters**, **B30–B55** | Related: PSD9.2, see THL
	SSS2.3/HS8.3.11, Soil and water conservation for sustainable land management (co-organized), **Blue Posters**, **B56–B68**
	SSS4.7, Biotic and abiotic drivers of humification and mineralisation under changing climate, **Blue Posters**, **B69–B98**

	SSS5.6, Reflectance and fluorescence spectroscopy in soil science – current and future research and developments, **Blue Posters**, **B99–B123**
	SSS6.1/GM4.9/HS8.3.12, Soil carbon sequestration and greenhouse gas emissions: sources, mechanisms, processes and management practices effects (co-organized), **Blue Posters**, **B124–B140**
	SSS6.15, Strategies for effective soil carbon sequestration through synergies in pyrogenic carbon, charcoal and biochar research, **Blue Posters**, **B141–B164**
	SSS8.3, Remediation and restoration of contaminated and degraded soils, **Blue Posters**, **B165–B186**
	SSS11.1/ESSI3.6, Communication of uncertainty about information in earth sciences (co-organized), **Blue Posters**, **B187–B201** | Related: PSD9.13, see FR2
	TS2.3/EMRP4.7/ERE2.6/SSS7.11, Flow and Transformation in Porous Media or Brittle Structures: Models, Experiments and Applications (co-organized), **Blue Posters**, **B398–B432**
Friday, 02 May	
FR1, 08:30–10:00	**GD8.1/CL2.4/EMRP4.12/GMPV63/SM4.9/SSS7.17**, Integrated Geophysical Observations and Modeling in Geodynamics (co-organized), **Blue Posters**, **B841–B868** | Related: PSD20.12, see TH4
FR2, 10:30–12:00	**HS8.3.2/SSS7.14**, Monitoring and modelling transfer processes in the soil-plant-atmosphere continuum across scales (co-organized), **Red Posters**, **R325–R344**
	HS8.3.3/SSS7.13, Patterns in Soil-Vegetation-Atmosphere Systems: Monitoring, Modelling, and Data Assimilation (co-organized), **Red Posters**, **R345–R361**
	HS9.7/GM7.7/SSP3.1.17/SSS7.10, Revisiting techniques for quantifying sources and travel times of fine sediment from catchment to coast (co-organized), **Red Posters**, **R402–R416**
	PSD9.1, SSS1.5 - Teaching and Communicating Science: Soils and geosciences, **10:30–11:15**, **Room B4**
	PSD9.13, SSS11.1/ESSI3.6 - Communication of uncertainty about information in earth sciences, **10:30–11:15**, **Room B7**
	SSS2.1, World land Degradation and Desertification. A human and biophysical approach, **Blue Posters**, **B24–B48**
FR3, 13:30–15:00	**BG2.5/SSS7.19**, Earth observation for monitoring and modeling the global energy, water and carbon cycles over land using model-data integration (co-organized), **Green Posters**, **G15–G35**
	HS8.3.5/SSS7.12, Estimation of soil-atmosphere and vadose zone water fluxes by use of precision lysimeter measurements (co-organized), **Red Posters**, **R362–R378**
FR4, 15:30–17:00	**PSD9.5**, SSS2.10/BG9.7/GM4.8/HS8.3.9/NH3.9 - How vegetation influences soil erosion and slope stability: monitoring and modeling eco-hydrological and geo-mechanical factors, **15:30–16:15**, **Room B7**
FR5, 17:30–19:00	**AS4.1/BG5.4/CL5.14**, Chemistry-Climate Interactions, and Metrics to Inform Climate and Environmental Policies and Assessments (co-listed), **Yellow Posters**, **Z174–Z186**
	AS4.9/CL5.6/GM5.2/SSS9.16, Aeolian dust: Initiator, Player, and Recorder of Environmental Change (co-organized), **Yellow Posters**, **Z219–Z237**

	IG6/BG9.9/SSS9.17, Applications of non-traditional stable isotopes in the terrestrial and aquatic environment & Past and present climate: the continental isotopic record (co-organized), **Red Posters**, **R143–R160**
	SSP3.1.6, Geophysical and geochemical tools in sedimentology; reconstruction of redox conditions; ocean acidification (co-listed), **Blue Posters**, **B464–B475**
	SSS0.2, Innovative and successful research on soil science developed by young scientists, **Blue Posters**, **B1–B10**
	SSS1.5, Teaching and Communicating Science: Soils and geosciences, **Blue Posters**, **B11–B23** | Related: PSD9.1, see FR2
	SSS2.10/BG9.7/GM4.8/HS8.3.9/NH3.9, How vegetation influences soil erosion and slope stability: monitoring and modeling eco-hydrological and geo-mechanical factors (co-organized), **Blue Posters**, **B49–B69** | Related: PSD9.5, see FR4
	SSS5.2/GMPV15, Processes at the weathering front and reactivity of soil minerals (co-organized), **Blue Posters**, **B70–B89**
	SSS6.3, Functionality, stability and pool sizes of organic carbon in sub- versus topsoils, **Blue Posters**, **B90–B101**
	SSS6.8, Studying soil organic carbon in Mediterranean soils. Different techniques and the effects of land management and use, climatic and topographic conditions, and organic waste addition, **Blue Posters**, **B102–B111**
	SSS8.1, Soil pollution and remediation, **Blue Posters**, **B112–B147**
	SSS9.8, Novel sorbent materials for environmental remediation, **Blue Posters**, **B148–B163**
	SSS11.8, Measuring and modelling spatial and temporal variability of soil properties and processes related to human activities, **Blue Posters**, **B164–B182**