

SSS – Soil System Sciences (#EGU17SSS) – Orals

Monday, 24 April

MO1 , 08:30–10:00	SSS2.5/GM4.6/HS9.10/NH9.25 , Connectivity in hydrology and sediment dynamics: concepts, measuring, modelling, indices and societal implications (co-organized), 08:30–15:15, Room K2
	SSS4.8 , Carbon and nutrient cycling in biological activity hot spots in soil, 08:30–12:00, Room -2.32
	SSS5.12 , Chemistry of exogenous and native soil organic matter: accrual, mineralization, stabilization and management, 08:30–12:15, Room -2.20
	SSS8.5 , Restoration of dryland ecosystems: biogeochemistry, ecohydrology and soil processes, and current rehabilitation practices, 08:30–12:15, Room -2.47
	SSS9.13/BG9.45/CL4.06/CR4.7 , Soils in cold-climate regions (co-organized), 08:30–12:15, Room -2.21
	NH3.7/GM8.5/SSS2.24 , Mechanics of Mass Flows (co-organized), 08:30–10:00, Room M2
	AS2.1/SSS9.25 , Impact of Land-Surface-Atmosphere Feedbacks on Weather and Climate (co-organized), 08:30–10:00, Room 0.11
MO2 , 10:30–12:00	NH1.2/AS1.6/SSS9.29 , Atmospheric Electricity, Thunderstorms, Lightning and their effects (co-organized), 08:30–15:00, Room L6
	SSS2.5/GM4.6/HS9.10/NH9.25 , Connectivity in hydrology and sediment dynamics: concepts, measuring, modelling, indices and societal implications (co-organized), 08:30–15:15, Room K2
	SSS4.8 , Carbon and nutrient cycling in biological activity hot spots in soil, 08:30–12:00, Room -2.32
	SSS5.12 , Chemistry of exogenous and native soil organic matter: accrual, mineralization, stabilization and management, 08:30–12:15, Room -2.20
	SSS8.5 , Restoration of dryland ecosystems: biogeochemistry, ecohydrology and soil processes, and current rehabilitation practices, 08:30–12:15, Room -2.47
	SSS9.13/BG9.45/CL4.06/CR4.7 , Soils in cold-climate regions (co-organized), 08:30–12:15, Room -2.21
	AS2.3/CR6.4/OS5.5/SSS9.27 , Boundary Layers in High Latitudes: Physical and Chemical Exchange Processes over Ocean-Ice-Snow-Land Surfaces (co-organized), 10:30–12:15, Room 0.11
MOL , 12:15–13:15	UMI0 , Plenary, 12:15–13:15, Room E1
MO3 , 13:30–15:00	NH1.2/AS1.6/SSS9.29 , Atmospheric Electricity, Thunderstorms, Lightning and their effects (co-organized), 08:30–15:00, Room L6
	SSS2.5/GM4.6/HS9.10/NH9.25 , Connectivity in hydrology and sediment dynamics: concepts, measuring, modelling, indices and societal implications (co-organized), 08:30–15:15, Room K2
	SSS4.11 , Role of soil biota in soil functioning and ecosystem service provision, 13:30–17:15, Room -2.32
	SSS5.4 , Future challenges in biochar research, 13:30–15:15, Room -2.20
	SSS8.4 , Progress in remediation for soils polluted by potentially toxic elements, 13:30–17:15, Room -2.47
SSS9.14/BG9.46/CL3.13 , Carbon sequestration in soils for mitigation, adaptation and food security: making the '4 per 1000' goal a reality and studying soils based negative emissions technologies (NETs) (co-organized), 13:30–17:00, Room -2.21	

	AS2.2/SSS9.26 , Air-Land Interactions (General Session) (co-sponsored by iLEAPS) (co-organized), 13:30–17:00, Room 0.11
	NH1.2/AS1.6/SSS9.29 , Atmospheric Electricity, Thunderstorms, Lightning and their effects (co-organized), 08:30–15:00, Room L6
MO4 , 15:30–17:00	SSS2.19 , Get immersed in the Soil Sciences: bright ideas shared among avatars, 15:30–17:00, Room 0.16
	SSS4.11 , Role of soil biota in soil functioning and ecosystem service provision, 13:30–17:15, Room -2.32
	SSS8.4 , Progress in remediation for soils polluted by potentially toxic elements, 13:30–17:15, Room -2.47
	SSS9.14/BG9.46/CL3.13 , Carbon sequestration in soils for mitigation, adaptation and food security: making the ‘4 per 1000’ goal a reality and studying soils based negative emissions technologies (NETs) (co-organized), 13:30–17:00, Room -2.21
	SSS9.20/BG9.62/HS11.57 , Water repellency of soil, biological and manmade materials: origin, assessment and implications (co-organized), 15:30–17:15, Room K2
	SSS10.12/ERE2.5 , Conservation of land resources and land tenure systems (co-organized), 15:30–17:15, Room -2.20
	NH8.1/SSS8.11 , Environmental contamination: heavy metals, minerals, radionuclides and dusts (co-organized), 15:30–17:00, Room L8
	AS2.2/SSS9.26 , Air-Land Interactions (General Session) (co-sponsored by iLEAPS) (co-organized), 13:30–17:00, Room 0.11
	NH1.5/AS4.37/CL4.19/HS11.27/SM10.9/SSS10.16 , Hazard Risk Management of Agroecosystems and Induced Human Migration (co-organized), 15:30–17:15, Room L6
	SC89/SSS13.16 , The future of permafrost in a climate-changing world (co-organized), 15:30–17:00, Room -2.91
MO5 , 17:30–19:00	SC96/SSS13.18 , Hydrological and sediment connectivity: from concepts to experimental and modelling procedures (co-organized), 17:30–19:00, Room -2.31
Tuesday, 25 April	
TU1 , 08:30–10:00	SSS1.6/AS4.51/BG9.13/CL3.06/HS11.43/NH9.22 , European Environmental Policies and Sustainability (co-organized), 08:30–10:15, Room -2.20
	SSS2.10 , Soils of marginal lands – definition, assessment and land use options, 08:30–12:30, Room -2.21
	SSS2.22/HS9.12/NH9.24 , Advances and gaps in understanding, predicting and preventing hydrological and erosional risks in fire-affected watersheds. (co-organized), 08:30–12:15, Room K2
	SSS4.7 , Soil biodiversity in natural and agricultural ecosystems, 08:30–10:15, Room -2.32
	SSS8.4 , Progress in remediation for soils polluted by potentially toxic elements, 08:30–10:00, Room -2.47
	HS9.1/GM4.9/SSS12.22 , Measuring and numerical modelling of hydro-morphological processes in open-water environments (co-organized), 08:30–12:00, Room C
	SC10/SSS13.8 , Soil mapping and process modelling at diverse scales (co-organized), 08:30–10:00, Room -2.31
TU2 , 10:30–12:00	SSS1.5 , Environment science, public perception, stakeholders and policy makers, 10:30–12:15, Room -2.20
	SSS2.10 , Soils of marginal lands – definition, assessment and land use options, 08:30–12:30, Room -2.21

	SSS2.22/HS9.12/NH9.24 , Advances and gaps in understanding, predicting and preventing hydrological and erosional risks in fire-affected watersheds. (co-organized), 08:30–12:15, Room K2
	SSS8.2 , Emerging pollutants and soil degradation: chemical behavior and biological approaches for soil restoration, 10:30–12:15, Room -2.47
	SSS12.2/GM1.9/HS11.63 , Experiments in Earth Surface Processes - From understanding to quantification (co-org.), 10:30–12:15, Room -2.32
	GM11.1/SSS2.33 , Aeolian Processes and Landforms (co-organized), 10:30–12:00, Room 1.85
	HS9.1/GM4.9/SSS12.22 , Measuring and numerical modelling of hydro-morphological processes in open-water environments (co-organized), 08:30–12:00, Room C
	GM1.1/EOS20/CL5.18/SSS13.1 , Beyond the case study: Concepts in Earth Sciences (co-organized), 10:30–12:00, Room L1
	SC42/SSS13.14 , Measurement and interpretation of redox potentials in soils and sediments (co-organized), 10:30–12:00, Room -2.16
TUL , 12:15–13:15	DM20/SSS , Division meeting for Soil System Sciences (SSS) (co-organized), 12:15–13:15, Room D3
TU3 , 13:30–15:00	SSS1.2/EOS22 , Soil Science Education (co-organized), 13:30–15:00, Room -2.20
	SSS2.4 , Gully and rill erosion: recent research progress, 13:30–15:15, Room -2.32
	SSS7.6/HS8.3.11 , Soil water Infiltration. Measurements, assessment and modeling (co-organized), 13:30–17:15, Room K2
	SSS9.5/NH3.13 , Landslide early warning systems: monitoring systems, rainfall thresholds, warning models, performance evaluation and risk perception. (co-organized), 13:30–17:30, Room -2.47
	SSS12.5/HS7.10 , Rainfall simulators as a tool in Soil Science, Geomorphology and Hydrology research and teaching (co-organized), 13:30–15:15, Room -2.21
	GM6.4/CL1.16/SSS3.10 , Palaeoenvironmental evolution, connectivity and geomorphological dynamics in dryland areas: New approaches, challenges, pros and cons (co-organized), 13:30–15:15, Room L1
	SC61/SSS13.15 , International Decade of Soils: Ideas for outreach activities (co-organized), 13:30–15:00, Room -2.31
TU4 , 15:30–17:00	SSS1.4 , Soil, Art, Culture, and History, 15:30–17:15, Room -2.20
	SSS2.18 , New challenges in Land Degradation and Restoration research, 15:30–17:15, Room -2.21
	SSS7.6/HS8.3.11 , Soil water Infiltration. Measurements, assessment and modeling (co-organized), 13:30–17:15, Room K2
	SSS9.5/NH3.13 , Landslide early warning systems: monitoring systems, rainfall thresholds, warning models, performance evaluation and risk perception. (co-organized), 13:30–17:30, Room -2.47
TU6 , 19:00–20:00	ML23/SSS , Philippe Duchaufour Medal Lecture by Peter Smith (co-organized), 19:00–20:00, Room K2
Wednesday, 26 April	
WE1 , 08:30–10:00	SSS2.1 , Land Degradation and Development. A State-of-the-Art, 08:30–17:30, Room K2
	SSS6.2/BG9.11 , Soil organic matter turnover: from molecules to ecosystems and back again (co-organized), 08:30–10:15, Room -2.47
	SSS7.2/HS8.3.10 , Preferential flow and mass transfers in vadose zone (co-organized), 08:30–10:10, Room -2.21

	SSS9.15 , Impact of agriculture on soil ecosystem services, 08:30–10:15, Room -2.20
	US1/AS4.52/BG9.67/CL4.20/SSS0.4 , Vegetation-climate interactions across time scales (co-organized), 08:30–12:00, Room E2
	NH7.1/SSS2.26 , Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized), 08:30–15:00, Room L7
	NH3.3/GI3.11/SSS2.27 , Characterizing and monitoring landslide processes using remote sensing and geophysics (co-organized), 08:30–15:00, Room L6
	GM1.3/EOS19/SSS3.12 , Geodiversity and Geoheritage (co-organized), 08:30–12:00, Room N1
	GI1.1/EMRP4.16/SSS12.25 , Applications of Data, Methods and Models in Geosciences (co-organized), 08:30–10:00, Room D2
WE2 , 10:30–12:00	SSS2.1 , Land Degradation and Development. A State-of-the-Art, 08:30–17:30, Room K2
	SSS5.6 , Peatlands and wetlands in the tropics and beyond: biogeochemistry, ecology, and carbon cycle, 10:30–12:15, Room -2.20
	SSS12.1/HS11.62 , Advancing proxies in the critical zone for deciphering time-dependent processes in weathering profile and natural and anthropogenic fingerprinting of water (sponsored by European Association of Geochemistry) (co-organized), 10:30–12:15, Room -2.21
	SSS12.11/GM3.7 , Learning from spatial data: unveiling the geo-environment through quantitative approaches (co-organized), 10:30–12:15, Room -2.47
	US1/AS4.52/BG9.67/CL4.20/SSS0.4 , Vegetation-climate interactions across time scales (co-organized), 08:30–12:00, Room E2
	NH7.1/SSS2.26 , Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized), 08:30–15:00, Room L7
	NH3.3/GI3.11/SSS2.27 , Characterizing and monitoring landslide processes using remote sensing and geophysics (co-organized), 08:30–15:00, Room L6
	GM1.3/EOS19/SSS3.12 , Geodiversity and Geoheritage (co-organized), 08:30–12:00, Room N1
WE3 , 13:30–15:00	SSS2.1 , Land Degradation and Development. A State-of-the-Art, 08:30–17:30, Room K2
	SSS5.16 , Designing biochars to react with N species and mechanisms of nutrient enhancement, 13:30–15:15, Room -2.20
	SSS6.8/BG9.56 , The impact of soil organic carbon loss on environmental services (co-organized), 13:30–15:00, Room -2.21
	SSS7.8/BG9.10/HS11.53 , The impact of pesticides in life, water, sediment, air and soil resources (co-organized), 13:30–17:20, Room -2.47
	NH7.1/SSS2.26 , Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized), 08:30–15:00, Room L7
	NH3.3/GI3.11/SSS2.27 , Characterizing and monitoring landslide processes using remote sensing and geophysics (co-organized), 08:30–15:00, Room L6
	GM7.3/CL1.09/SSS3.11 , Geoarchaeology: Human impact, adaptation and response to climatic and environmental change from the past to the present (co-organized), 13:30–17:00, Room L3
	BG2.16/CL5.24/SSS9.40 , Response of terrestrial ecosystems to climate change: Learning from experimental manipulations and natural gradients (co-organized), 13:30–17:00, Room 2.20
WE4 , 15:30–17:00	SSS2.1 , Land Degradation and Development. A State-of-the-Art, 08:30–17:30, Room K2

	SSS5.17 , General Soil Chemistry: from basic research to environmental aspects to food security, 15:30–17:15, Room -2.20
	SSS7.8/BG9.10/HS11.53 , The impact of pesticides in life, water, sediment, air and soil resources (co-organized), 13:30–17:20, Room -2.47
	SSS10.2 , Organic Farming and Soil management, 15:30–17:15, Room -2.21
	GM7.3/CL1.09/SSS3.11 , Geoarchaeology: Human impact, adaptation and response to climatic and environmental change from the past to the present (co-organized), 13:30–17:00, Room L3
	GM3.3/SSS3.13/TS4.6 , Modelling Earth surface processes and geomorphic flows: methods and validation (co-organized), 15:30–17:00, Room N1
	BG2.16/CL5.24/SSS9.40 , Response of terrestrial ecosystems to climate change: Learning from experimental manipulations and natural gradients (co-organized), 13:30–17:00, Room 2.20
Thursday, 27 April	
TH1, 08:30–10:00	SSS2.1 , Land Degradation and Development. A State-of-the-Art, 08:30–17:15, Room -2.21
	SSS7.7/HS8.3.14 , Multi-scale structure-property relationships for porous media: how pore-scale processes can help describe flow and transport at the larger scale? (co-organized), 08:30–10:15, Room -2.47
	SSS9.3 , Fire impacts on the Ecosystems (including SSS Division Outstanding ECS Award Lecture), 08:30–10:15, Room K2
	SSS11.4/BG9.41/NP10.5 , Complexity and non-linearity in soils (co-organized), 08:30–12:15, Room -2.20
	ML45/SSS , SSS Division Outstanding ECS Award Lecture by Victoria Arcenegui (co-organized), 08:30–08:45, Room K2
	HS10.3/BG9.4/SSS9.34 , General Ecohydrology (co-organized), 08:30–12:00, Room C
	BG2.8/CL3.14/SSS9.38 , Terrestrial ecosystem responses to global change: integrating carbon, nutrient, and water cycles in experiments and models (co-organized), 08:30–12:00, Room 2.20
	SC8/GM13.5/SSS13.7 , Modelling soilscape development (co-organized), 08:30–10:00, Room -2.16
TH2, 10:30–12:00	SSS2.1 , Land Degradation and Development. A State-of-the-Art, 08:30–17:15, Room -2.21
	SSS7.3/HS8.3.8 , Challenges in soil physics research (co-organized), 10:30–12:15, Room -2.47
	SSS9.4/HS11.54/NH1.20 , Threats and potentials in urban and peri-urban areas: soil and water degradation, ecosystem services and risk management (co-organized), 10:30–12:15, Room K2
	SSS11.4/BG9.41/NP10.5 , Complexity and non-linearity in soils (co-organized), 08:30–12:15, Room -2.20
	HS10.3/BG9.4/SSS9.34 , General Ecohydrology (co-organized), 08:30–12:00, Room C
	GM6.2/BG9.43/SSS9.36 , Biogeomorphology: conceptualising and quantifying processes, rates and feedbacks (co-organized), 10:30–12:00, Room L3
	BG2.8/CL3.14/SSS9.38 , Terrestrial ecosystem responses to global change: integrating carbon, nutrient, and water cycles in experiments and models (co-organized), 08:30–12:00, Room 2.20
TH3, 13:30–15:00	SSS2.1 , Land Degradation and Development. A State-of-the-Art, 08:30–17:15, Room -2.21

	SSS4.5/BG9.57/CL2.12 , Plant-soil-microbial interactions under global change (co-organized), 13:30–17:00, Room -2.47
	SSS9.2 , Soil quality and health in agriculture areas: impact of current and novel management practices, 13:30–15:15, Room K2
	SSS10.6/HS5.12 , Irrigated agriculture: Natural Resources Management for the sustainability of the terrestrial ecosystem maintaining productivity (co-organized), 13:30–17:15, Room -2.20
	BG2.12/SSS5.18 , Biogeochemistry of peatlands and lakes (co-organized), 13:30–17:00, Room 2.20
	GM3.2/GI2.12/GMPV6.4/HS11.13/NH8.9/SSS12.24 , High Resolution Topography in the Geosciences: Methods and Applications (co-organized), 13:30–17:00, Room L3
TH4, 15:30–17:00	SSS2.1 , Land Degradation and Development. A State-of-the-Art, 08:30–17:15, Room -2.21
	SSS4.5/BG9.57/CL2.12 , Plant-soil-microbial interactions under global change (co-organized), 13:30–17:00, Room -2.47
	SSS9.8/BG9.8/GM6.5/NH9.26 , Coevolution of soils, landforms and vegetation: patterns, feedbacks and ecosystem stability thresholds (co-organized), 15:30–17:15, Room K2
	SSS10.6/HS5.12 , Irrigated agriculture: Natural Resources Management for the sustainability of the terrestrial ecosystem maintaining productivity (co-organized), 13:30–17:15, Room -2.20
	BG2.12/SSS5.18 , Biogeochemistry of peatlands and lakes (co-organized), 13:30–17:00, Room 2.20
	GM2.1/CL5.02/SSS12.23 , Advances in the use of cosmogenic nuclides and the quantification of landscape evolution (co-organized), 15:30–17:00, Room N1
	GM3.2/GI2.12/GMPV6.4/HS11.13/NH8.9/SSS12.24 , High Resolution Topography in the Geosciences: Methods and Applications (co-organized), 13:30–17:00, Room L3
Friday, 28 April	
FR1, 08:30–10:00	SSS2.3/HS11.46 , The use of check dams for soil restoration at watershed level: resolving or generating hydrological, soil and environmental problems? (co-organized), 08:30–12:15, Room -2.21
	SSS9.7/CL5.21/GM7.8/HS11.55 , Soil Erosion, Land Use and Climate Change: mapping, measuring, modelling, and societal challenges (co-organized), 08:30–15:15, Room K2
	SSS10.1 , The impact of grazing on land degradation: Identifying problems, causes and solutions from a global perspective, 08:30–10:15, Room -2.47
	SSS12.8 , Soil mapping, classification, and process modelling for sustainability, 08:30–17:15, Room -2.20
	CL1.21/BG9.59/OS2.10/SPP2.8/SSS3.15 , Past climate - isotopic and multi-proxy continental and shallow marine records (co-organized), 08:30–10:00, Room 0.94
	BG2.7/SSS6.13 , Peatlands and the Carbon Cycle (co-organized), 08:30–10:15, Room 2.31
	GI1.2/AS4.47/BG9.20/ERE1.8/HS11.9/NH8.4/OS4.11/SSS8.12 , Geoscience processes related to Fukushima and Chernobyl nuclear accidents (co-organized), 08:30–12:10, Room L8

	GM4.2/HS11.14/NH3.16/SSS9.35 , Erosion and Sedimentation in Mountain Landscapes (co-organized), 08:30–12:00, Room L3
	BG2.3/CL2.31/SSS10.17 , Forest Management under Climate Change (co-organized), 08:30–10:15, Room 2.20
	NH6.1/CR2.7/GI2.8/HS11.29/SM5.7/SSS12.20 , Application of remote sensing and Earth-observation data in natural hazard and risk studies (co-organized), 08:30–12:00, Room L6
	SC17/SSS13.13 , Imaging and image processing of biogeochemical and structural characteristics in soil microenvironments (co-organized), 08:30–10:00, Room -2.31
FR2, 10:30–12:00	SSS2.3/HS11.46 , The use of check dams for soil restoration at watershed level: resolving or generating hydrological, soil and environmental problems? (co-organized), 08:30–12:15, Room -2.21
	SSS3.5 , Geochemical mapping at all scales: evidence from soil, sediment, water and plants, 10:30–12:15, Room -2.47
	SSS9.7/CL5.21/GM7.8/HS11.55 , Soil Erosion, Land Use and Climate Change: mapping, measuring, modelling, and societal challenges (co-organized), 08:30–15:15, Room K2
	SSS12.8 , Soil mapping, classification, and process modelling for sustainability, 08:30–17:15, Room -2.20
	BG4.3/SSS5.20 , Biogeochemistry, ecohydrology, and land-use in the tropics and subtropics (co-organized), 10:30–17:00, Room 2.31
	GI1.2/AS4.47/BG9.20/ERE1.8/HS11.9/NH8.4/OS4.11/SSS8.12 , Geoscience processes related to Fukushima and Chernobyl nuclear accidents (co-organized), 08:30–12:10, Room L8
	GM4.2/HS11.14/NH3.16/SSS9.35 , Erosion and Sedimentation in Mountain Landscapes (co-organized), 08:30–12:00, Room L3
	NH6.1/CR2.7/GI2.8/HS11.29/SM5.7/SSS12.20 , Application of remote sensing and Earth-observation data in natural hazard and risk studies (co-organized), 08:30–12:00, Room L6
	SC16/SSS13.12 , Accessing and using global soil data (co-organized), 10:30–12:00, Room -2.91
FRL, 12:15–13:15	ML1/GM/SSS , Alexander von Humboldt Medal Lecture by Johan Bouma (co-organized), 12:15–13:15, Room E1
FR3, 13:30–15:00	SSS2.23 , Salt affected soils: monitoring, risk assessment and effects on plants, 13:30–15:15, Room -2.47
	SSS9.7/CL5.21/GM7.8/HS11.55 , Soil Erosion, Land Use and Climate Change: mapping, measuring, modelling, and societal challenges (co-organized), 08:30–15:15, Room K2
	SSS9.21 , Nature-based solutions in land and water management for hydro-meteorological risk reduction and climate change adaptation, 13:30–17:00, Room -2.21
	SSS12.8 , Soil mapping, classification, and process modelling for sustainability, 08:30–17:15, Room -2.20
	GM9.5/BG9.50/HS11.22/SSS2.28 , Interactions of geomorphology, dams and flood hazard (co-organized), 13:30–15:00, Room N1
	GM4.1/BG9.35/GMPV2.12/SSS2.34 , Coupling chemical weathering and physical erosion: Insights from geomorphic and geochemical studies (co-organized), 13:30–15:00, Room L3
	BG4.3/SSS5.20 , Biogeochemistry, ecohydrology, and land-use in the tropics and subtropics (co-organized), 10:30–17:00, Room 2.31

	NH6.3/AS4.43/GI2.10/HS11.31/SM5.8/SSS12.21 , The use of Remotely Piloted Aircraft Systems (RPAS) in monitoring applications and management of natural hazards (co-organized), 13:30–15:00, Room L6
	SC12/SSS13.10 , Fire effects on soils and Ecosystems (co-organized), 13:30–15:00, Room -2.16
	SC90/SSS13.17 , Reading soils from the Past (co-organized), 13:30–15:00, Room -2.85
FR4, 15:30–17:00	SSS3.4 , Geomorphological and (palaeo-)pedological records of natural environmental factors and human impact, 15:30–17:15, Room 0.96
	SSS9.21 , Nature-based solutions in land and water management for hydro-meteorological risk reduction and climate change adaptation, 13:30–17:00, Room -2.21
	SSS12.8 , Soil mapping, classification, and process modelling for sustainability, 08:30–17:15, Room -2.20
	NH3.11/GM8.4/SSS2.25 , Rockfalls, rockslides and rock avalanches (co-organized), 15:30–17:00, Room L7
	GM4.3/HS11.15/NH8.12/SSS2.30 , Hillslope and fluvial denudation, source-to-sink fluxes and sedimentary budgets under changing climate and other perturbations (co-organized), 15:30–17:00, Room L3
	BG4.3/SSS5.20 , Biogeochemistry, ecohydrology, and land-use in the tropics and subtropics (co-organized), 10:30–17:00, Room 2.31

SSS – Soil System Sciences (#EGU17SSS) – PICOs

Monday, 24 April

MO1 , 08:30–10:00	SSS4.9 , Soil and human health, PICO spot 5a
	SSS10.8/BG9.6/HS9.11 , Soil Erosion, hydrological processes and biological degradation in worldwide vineyards (co-organized), PICO spot 5b
	AS2.4/HS11.2/SSS9.28 , Challenges of a changing Mediterranean natural environment (co-organized), PICO spot 3
MO2 , 10:30–12:00	SSS10.7 , Environmental processes and land managements that influence vineyard ecosystem and wine quality, PICO spot 5b
	AS2.4/HS11.2/SSS9.28 , Challenges of a changing Mediterranean natural environment (co-organized), PICO spot 3
MO3 , 13:30–15:00	SSS3.1 , DEMs, LEMs and PalaeoDEMs: latest developments in Geosciences, PICO spot 1
	SSS7.10/HS8.3.12 , Innovative methods for characterizing physical soil properties and monitoring soil moisture (co-organized), PICO spot 5b
	SSS10.5 , Novel soil management approaches to address the impact of agriculture on the soil system: practice and education, PICO spot 3
MO4 , 15:30–17:00	SSS10.5 , Novel soil management approaches to address the impact of agriculture on the soil system: practice and education, PICO spot 3

Tuesday, 25 April

TU1 , 08:30–10:00	SSS9.19 , Fate of pollutants in soil and water/sediment systems, PICO spot 5b
	SSS11.6/BG9.42/NP10.7 , Integrating Soil Systems Ecology into biogeochemical models (co-organized), PICO spot 3
	IE3.6/GM1.8/AS4.50/BG9.65/CL5.26/HS11.23/SSS11.11 , R's deliberate role in Earth sciences (co-organized), PICO spot A
	NH4.6/SM3.10/SSS2.36 , Soil liquefaction; susceptibility, hazard and mitigation measures (co-organized), PICO spot 1
TU2 , 10:30–12:00	SSS12.13/BG9.26 , Innovative analytical methods and hyphenated techniques in soil analysis (co-organized), PICO spot 3
TU3 , 13:30–15:00	SSS8.3 , Interdisciplinary approaches to improve bioremediation and biomining techniques and reduce soil pollution, PICO spot 5b
	NH9.5/AS4.32/CL2.27/HS11.38/SM3.9/SSS13.3 , Natural Hazard and Risk Assessment in Developing Countries (co-organized), PICO spot 1
TU4 , 15:30–17:00	SSS8.7 , Novel sorbent materials for environmental remediation, PICO spot 5b
	HS5.6/SSS9.33 , Catchment Science and Management: Nature-Based Solutions for rural and urban environments (co-organized), PICO spot A

Wednesday, 26 April

WE1 , 08:30–10:00	SSS4.17/BG9.9 , Biological soil crusts: their history, diversity, functional roles and threats (co-organized), PICO spot 5b
WE2 , 10:30–12:00	SSS6.5/BG9.55 , Natural and pyrogenic organic carbon and nitrogen in soils: Function, fate, analytical challenges and how this relates to the concept of humic substances (co-organized), PICO spot 5b
WE3 , 13:30–15:00	SSS2.20/HS11.51 , Innovation and new challenges in sharing research results and knowledge of soil and water resources: experiences on strategic thinking, technologies and collaborative work. (co-organized), PICO spot 3

Thursday, 27 April

TH1, 08:30–10:00	SSS1.7/AS4.49/CL5.20/HS11.44/NH9.21 , “Lighthouse” examples, illustrating soil relevance for the UN Sustainable Development Goals (SDG’s) (co-organized), PICO spot 3
	BG2.19/SSS10.19 , Forests and the methane and nitrous oxide cycles (co-organized), PICO spot A
TH2, 10:30–12:00	SSS1.7/AS4.49/CL5.20/HS11.44/NH9.21 , “Lighthouse” examples, illustrating soil relevance for the UN Sustainable Development Goals (SDG’s) (co-organized), PICO spot 3
	SSS4.16 , Unravelling soil-biota interactions using micro-scale analyses, PICO spot 1
TH3, 13:30–15:00	SSS2.16/GM7.7/HS11.50 , Agricultural terraces of the world. Their pedological, geomorphological and hydrological role (co-organized), PICO spot 5b
TH4, 15:30–17:00	SSS2.8/BG9.44 , Soil quality assessment in degraded ecosystems: Global advances and challenges (co-organized), PICO spot 5b

Friday, 28 April

FR1, 08:30–10:00	SSS6.7/BG9.29/GM8.9 , Lateral transport of soil organic carbon: the role of erosion/deposition, land use changes, forest fires and other disturbances (co-organized), PICO spot 5b
	BG1.9/SSS13.11 , Interdisciplinary session on the global Phosphorus cycle (co-organized), PICO spot 5a
FR2, 10:30–12:00	SSS11.5/ESSI4.10/HS11.61/NH9.23 , Communication of uncertain information in earth sciences: data, models and visualization (co-organized), PICO spot 1
FR3, 13:30–15:00	SSS7.4/AS4.7/BG9.32 , Production and transport of gases in the soil: measurements and modelling (co-organized), PICO spot 3
	SSS12.6/GI2.13/GM3.9 , Unmanned Aerial Systems: Platforms, Sensors and Applications in Soil, Agriculture and Geosciences (co-organized), PICO spot 5b
	BG2.10/SSS9.37 , Greenhouse gases balance and management in natural and anthropogenic boreal landscapes (co-organized), PICO spot 5a

SSS – Soil System Sciences (#EGU17SSS) – Posters

Monday, 24 April

MO5 , 17:30–19:00	SSS2.5/GM4.6/HS9.10/NH9.25 , Connectivity in hydrology and sediment dynamics: concepts, measuring, modelling, indices and societal implications (co-organized), Hall X1, X1.114–X1.148
	SSS4.8 , Carbon and nutrient cycling in biological activity hot spots in soil, Hall X1, X1.149–X1.168
	SSS4.11 , Role of soil biota in soil functioning and ecosystem service provision, Hall X1, X1.179–X1.198
	SSS5.4 , Future challenges in biochar research, Hall X1, X1.199–X1.212
	SSS5.12 , Chemistry of exogenous and native soil organic matter: accrual, mineralization, stabilization and management, Hall X1, X1.213–X1.236
	SSS8.4 , Progress in remediation for soils polluted by potentially toxic elements, Hall X1, X1.237–X1.263
	SSS8.5 , Restoration of dryland ecosystems: biogeochemistry, ecohydrology and soil processes, and current rehabilitation practices, Hall X1, X1.264–X1.281
	SSS9.13/BG9.45/CL4.06/CR4.7 , Soils in cold-climate regions (co-organized), Hall X1, X1.282–X1.300
	SSS9.14/BG9.46/CL3.13 , Carbon sequestration in soils for mitigation, adaptation and food security: making the ‘4 per 1000’ goal a reality and studying soils based negative emissions technologies (NETs) (co-organized), Hall X1, X1.301–X1.325
	SSS9.20/BG9.62/HS11.57 , Water repellency of soil, biological and manmade materials: origin, assessment and implications (co-organized), Hall X1, X1.326–X1.344
	SSS10.12/ERE2.5 , Conservation of land resources and land tenure systems (co-organized), Hall X1, X1.345–X1.357
	SSS11.4/BG9.41/NP10.5 , Complexity and non-linearity in soils (co-organized), Hall X1, X1.358–X1.380
	NH3.7/GM8.5/SSS2.24 , Mechanics of Mass Flows (co-organized), Hall X4, X4.326–X4.334
	NH8.1/SSS8.11 , Environmental contamination: heavy metals, minerals, radionuclides and dusts (co-organized), Hall X4, X4.401–X4.421
	AS2.1/SSS9.25 , Impact of Land-Surface-Atmosphere Feedbacks on Weather and Climate (co-organized), Hall X5, X5.281–X5.302
	AS2.2/SSS9.26 , Air-Land Interactions (General Session) (co-sponsored by iLEAPS) (co-organized), Hall X5, X5.303–X5.332
	AS2.3/CR6.4/OS5.5/SSS9.27 , Boundary Layers in High Latitudes: Physical and Chemical Exchange Processes over Ocean-Ice-Snow-Land Surfaces (co-organized), Hall X5, X5.333–X5.348
NH1.2/AS1.6/SSS9.29 , Atmospheric Electricity, Thunderstorms, Lightning and their effects (co-organized), Hall X4, X4.254–X4.288	
NH1.5/AS4.37/CL4.19/HS11.27/SM10.9/SSS10.16 , Hazard Risk Management of Agroecosystems and Induced Human Migration (co-organized), Hall X4, X4.289–X4.308	

Tuesday, 25 April

TU5 , 17:30–19:00	SSS1.2/EOS22 , Soil Science Education (co-organized), Hall X1, X1.87–X1.100
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	SSS1.4 , Soil, Art, Culture, and History, Hall X1, X1.101–X1.115
	SSS1.5 , Environment science, public perception, stakeholders and policy makers, Hall X1, X1.116–X1.133
	SSS1.6/AS4.51/BG9.13/CL3.06/HS11.43/NH9.22 , European Environmental Policies and Sustainability (co-organized), Hall X1, X1.134–X1.139
	SSS2.4 , Gully and rill erosion: recent research progress, Hall X1, X1.140–X1.156
	SSS2.10 , Soils of marginal lands – definition, assessment and land use options, Hall X1, X1.157–X1.180
	SSS2.18 , New challenges in Land Degradation and Restoration research, Hall X1, X1.181–X1.197
	SSS2.22/HS9.12/NH9.24 , Advances and gaps in understanding, predicting and preventing hydrological and erosional risks in fire-affected watersheds. (co-organized), Hall X1, X1.198–X1.215
	SSS4.7 , Soil biodiversity in natural and agricultural ecosystems, Hall X1, X1.216–X1.229
	SSS7.6/HS8.3.11 , Soil water Infiltration. Measurements, assessment and modeling (co-organized), Hall X1, X1.230–X1.248
	SSS7.12/BG9.24/HS8.3.13/SSP3.12 , Microenvironments in soils and sediments - linking concepts, experiments and models (co-organized), Hall X1, X1.249–X1.260
	SSS8.2 , Emerging pollutants and soil degradation: chemical behavior and biological approaches for soil restoration, Hall X1, X1.261–X1.274
	SSS9.5/NH3.13 , Landslide early warning systems: monitoring systems, rainfall thresholds, warning models, performance evaluation and risk perception. (co-organized), Hall X1, X1.275–X1.300
	SSS12.2/GM1.9/HS11.63 , Experiments in Earth Surface Processes - From understanding to quantification (co-organized), Hall X1, X1.301–X1.317
	SSS12.5/HS7.10 , Rainfall simulators as a tool in Soil Science, Geomorphology and Hydrology research and teaching (co-organized), Hall X1, X1.318–X1.333
	GM11.1/SSS2.33 , Aeolian Processes and Landforms (co-organized), Hall X2, X2.50–X2.63
	GM6.4/CL1.16/SSS3.10 , Palaeoenvironmental evolution, connectivity and geomorphological dynamics in dryland areas: New approaches, challenges, pros and cons (co-organized), Hall X2, X2.31–X2.49
	HS9.1/GM4.9/SSS12.22 , Measuring and numerical modelling of hydro-morphological processes in open-water environments (co-organized), Hall A, A.273–A.301
	GI3.6/EMRP4.18/ERE5.9/SSP1.7/SSS12.27 , Geoscientific Underground Labs and Test Sites (co-organized), Hall X4, X4.215–X4.224
	GM1.1/EOS20/CL5.18/SSS13.1 , Beyond the case study: Concepts in Earth Sciences (co-organized), Hall X2, X2.1–X2.14
Wednesday, 26 April	
WE3 , 13:30–15:00	US1/AS4.52/BG9.67/CL4.20/SSS0.4 , Vegetation-climate interactions across time scales (co-organized), Hall X4, X4.498–X4.506
WE5 , 17:30–19:00	SSS5.6 , Peatlands and wetlands in the tropics and beyond: biogeochemistry, ecology, and carbon cycle, Hall X1, X1.1–X1.19
	SSS5.16 , Designing biochars to react with N species and mechanisms of nutrient enhancement, Hall X1, X1.20–X1.38
	SSS5.17 , General Soil Chemistry: from basic research to environmental aspects to food security, Hall X1, X1.39–X1.56

	SSS6.2/BG9.11 , Soil organic matter turnover: from molecules to ecosystems and back again (co-organized), Hall X1, X1.57–X1.75
	SSS6.8/BG9.56 , The impact of soil organic carbon loss on environmental services (co-organized), Hall X1, X1.76–X1.91
	SSS7.2/HS8.3.10 , Preferential flow and mass transfers in vadose zone (co-organized), Hall X1, X1.92–X1.109
	SSS7.8/BG9.10/HS11.53 , The impact of pesticides in life, water, sediment, air and soil resources (co-organized), Hall X1, X1.110–X1.136
	SSS9.15 , Impact of agriculture on soil ecosystem services, Hall X1, X1.137–X1.158
	SSS9.17/CL2.10 , Land Use and Climate Change Impact on Grasslands and Wetlands: a Pedological, Hydrological, Biological and Geomorphological Approach (co-organized), Hall X1, X1.159–X1.170
	SSS10.2 , Organic Farming and Soil management, Hall X1, X1.179–X1.195
	SSS12.1/HS11.62 , Advancing proxies in the critical zone for deciphering time-dependent processes in weathering profile and natural and anthropogenic fingerprinting of water (sponsored by European Association of Geochemistry) (co-organized), Hall X1, X1.196–X1.212
	SSS12.11/GM3.7 , Learning from spatial data: unveiling the geo-environment through quantitative approaches (co-organized), Hall X1, X1.213–X1.231
	NH7.1/SSS2.26 , Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized), Hall X3, X3.178–X3.202
	NH3.3/GI3.11/SSS2.27 , Characterizing and monitoring landslide processes using remote sensing and geophysics (co-organized), Hall X3, X3.137–X3.160
	GM7.3/CL1.09/SSS3.11 , Geoarchaeology: Human impact, adaptation and response to climatic and environmental change from the past to the present (co-organized), Hall X2, X2.148–X2.182
	GM1.3/EOS19/SSS3.12 , Geodiversity and Geoheritage (co-organized), Hall X2, X2.67–X2.94
	GM3.3/SSS3.13/TS4.6 , Modelling Earth surface processes and geomorphic flows: methods and validation (co-organized), Hall X2, X2.123–X2.147
	GI3.8/HS11.10/SSS12.19 , Broadband and multi/hyper-spectral IR sensing techniques for the retrieval of land surface temperature and emissivity; IR sensing for environmental studies (i.e geo-hazards, agriculture, atmosphere and urban) (co-organized), Hall X4, X4.321–X4.330
	GM3.2/GI2.12/GMPV6.4/HS11.13/NH8.9/SSS12.24 , High Resolution Topography in the Geosciences: Methods and Applications (co-organized), Hall X2, X2.95–X2.122
	GI1.1/EMRP4.16/SSS12.25 , Applications of Data, Methods and Models in Geosciences (co-organized), Hall X4, X4.258–X4.273
Thursday, 27 April	
TH4, 15:30–17:00	BG2.16/CL5.24/SSS9.40 , Response of terrestrial ecosystems to climate change: Learning from experimental manipulations and natural gradients (co-organized), Hall A, A.24–A.49
TH5, 17:30–19:00	SSS2.1 , Land Degradation and Development. A State-of-the-Art, Hall X1, X1.111–X1.162
	SSS4.5/BG9.57/CL2.12 , Plant-soil-microbial interactions under global change (co-organized), Hall X1, X1.179–X1.198
	SSS7.3/HS8.3.8 , Challenges in soil physics research (co-organized), Hall X1, X1.199–X1.213

	SSS7.7/HS8.3.14 , Multi-scale structure-property relationships for porous media: how pore-scale processes can help describe flow and transport at the larger scale? (co-organized), Hall X1, X1.214–X1.234
	SSS9.2 , Soil quality and health in agriculture areas: impact of current and novel management practices, Hall X1, X1.235–X1.249
	SSS9.3 , Fire impacts on the Ecosystems (including SSS Division Outstanding ECS Award Lecture), Hall X1, X1.250–X1.268
	SSS9.4/HS11.54/NH1.20 , Threats and potentials in urban and peri-urban areas: soil and water degradation, ecosystem services and risk management (co-organized), Hall X1, X1.269–X1.283
	SSS9.8/BG9.8/GM6.5/NH9.26 , Coevolution of soils, landforms and vegetation: patterns, feedbacks and ecosystem stability thresholds (co-organized), Hall X1, X1.284–X1.297
	SSS10.6/HS5.12 , Irrigated agriculture: Natural Resources Management for the sustainability of the terrestrial ecosystem maintaining productivity (co-organized), Hall X1, X1.298–X1.316
	GI1.2/AS4.47/BG9.20/ERE1.8/HS11.9/NH8.4/OS4.11/SSS8.12 , Geoscience processes related to Fukushima and Chernobyl nuclear accidents (co-organized), Hall X4, X4.234–X4.252
	NH3.2/SM8.6/SSS9.30 , Mechanisms and processes of landslides in seismically or volcanically active environments (co-organized), Hall X3, X3.224–X3.237
	HS10.3/BG9.4/SSS9.34 , General Ecohydrology (co-organized), Hall A, A.403–A.429
	GM2.1/CL5.02/SSS12.23 , Advances in the use of cosmogenic nuclides and the quantification of landscape evolution (co-organized), Hall X2, X2.59–X2.73
Friday, 28 April	
FR2, 10:30–12:00	BG2.12/SSS5.18 , Biogeochemistry of peatlands and lakes (co-organized), Foyer M, M.27–M.50
	BG2.7/SSS6.13 , Peatlands and the Carbon Cycle (co-organized), Hall A, A.69–A.86
	BG2.8/CL3.14/SSS9.38 , Terrestrial ecosystem responses to global change: integrating carbon, nutrient, and water cycles in experiments and models (co-organized), Foyer M, M.1–M.26
	BG2.3/CL2.31/SSS10.17 , Forest Management under Climate Change (co-organized), Hall A, A.52–A.68
FR5, 17:30–19:00	SSS2.3/HS11.46 , The use of check dams for soil restoration at watershed level: resolving or generating hydrological, soil and environmental problems? (co-organized), Hall X1, X1.99–X1.115
	SSS2.23 , Salt affected soils: monitoring, risk assessment and effects on plants, Hall X1, X1.116–X1.127
	SSS3.4 , Geomorphological and (palaeo-)pedological records of natural environmental factors and human impact, Hall X1, X1.128–X1.139
	SSS3.5 , Geochemical mapping at all scales: evidence from soil, sediment, water and plants, Hall X1, X1.140–X1.152
	SSS9.7/CL5.21/GM7.8/HS11.55 , Soil Erosion, Land Use and Climate Change: mapping, measuring, modelling, and societal challenges (co-organized), Hall X1, X1.179–X1.211

SSS9.21 , Nature-based solutions in land and water management for hydro-meteorological risk reduction and climate change adaptation, Hall X1, X1.212–X1.231
SSS10.1 , The impact of grazing on land degradation: Identifying problems, causes and solutions from a global perspective, Hall X1, X1.232–X1.245
SSS12.8 , Soil mapping, classification, and process modelling for sustainability, Hall X1, X1.246–X1.274
NH3.11/GM8.4/SSS2.25 , Rockfalls, rockslides and rock avalanches (co-organized), Hall X3, X3.190–X3.209
GM9.5/BG9.50/HS11.22/SSS2.28 , Interactions of geomorphology, dams and flood hazard (co-organized), Hall X2, X2.211–X2.225
GM4.3/HS11.15/NH8.12/SSS2.30 , Hillslope and fluvial denudation, source-to-sink fluxes and sedimentary budgets under changing climate and other perturbations (co-organized), Hall X2, X2.117–X2.135
GM4.1/BG9.35/GMPV2.12/SSS2.34 , Coupling chemical weathering and physical erosion: Insights from geomorphic and geochemical studies (co-organized), Hall X2, X2.55–X2.70
CL1.21/BG9.59/OS2.10/SSP2.8/SSS3.15 , Past climate - isotopic and multi-proxy continental and shallow marine records (co-organized), Hall X5, X5.36–X5.56
BG4.3/SSS5.20 , Biogeochemistry, ecohydrology, and land-use in the tropics and subtropics (co-organized), Hall A, A.136–A.160
GM4.2/HS11.14/NH3.16/SSS9.35 , Erosion and Sedimentation in Mountain Landscapes (co-organized), Hall X2, X2.71–X2.101
GM6.2/BG9.43/SSS9.36 , Biogeomorphology: conceptualising and quantifying processes, rates and feedbacks (co-organized), Hall X2, X2.151–X2.169
NH6.1/CR2.7/GI2.8/HS11.29/SM5.7/SSS12.20 , Application of remote sensing and Earth-observation data in natural hazard and risk studies (co-organized), Hall X3, X3.210–X3.232
NH6.3/AS4.43/GI2.10/HS11.31/SM5.8/SSS12.21 , The use of Remotely Piloted Aircraft Systems (RPAS) in monitoring applications and management of natural hazards (co-organized), Hall X3, X3.243–X3.258