CL – Climate: Past, Present, Future (#EGU17CL) – Orals

Monday, 24 April	
MO1, 08:30–10:00	**CL1.15**, Quaternary climate archives and proxy uncertainty, **08:30–15:00**, **Room E1**
	CL2.09/AS4.8/BG9.19, Phenology and seasonality in climate change and ecology (co-organized), **08:30–12:00**, **Room F2**
	CL3.07/AS4.27, Extreme Events and Impacts (co-organized), **08:30–10:00**, **Room 0.14**
	OS1.2/AS1.20/CL1.29, The North Atlantic: natural variability and global change (co-organized), **08:30–17:00**, **Room D2**
	AS1.18/CL3.09, The global monsoons in current, future and palaeoclimates and their role in extreme weather and climate events (co-organized), **08:30–12:00**, **Room E2**
	SSS9.13/BG9.45/CL4.06/CR4.7, Soils in cold-climate regions (co-organized), **08:30–12:15**, **Room -2.21**
MO2, 10:30–12:00	**CL0.00**, Open Session on Climate: Past, Present and Future, **10:30–12:00**, **Room 0.14**
	CL1.15, Quaternary climate archives and proxy uncertainty, **08:30–15:00**, **Room E1**
	CL2.09/AS4.8/BG9.19, Phenology and seasonality in climate change and ecology (co-organized), **08:30–12:00**, **Room F2**
	OS1.2/AS1.20/CL1.29, The North Atlantic: natural variability and global change (co-organized), **08:30–17:00**, **Room D2**
	AS1.18/CL3.09, The global monsoons in current, future and palaeoclimates and their role in extreme weather and climate events (co-organized), **08:30–12:00**, **Room E2**
	SSS9.13/BG9.45/CL4.06/CR4.7, Soils in cold-climate regions (co-organized), **08:30–12:15**, **Room -2.21**
	NP4.1/AS4.13/CL5.06, Time Series Analysis, Prediction, Verification and Inter-Comparison of Geoscientific Observations and Model Data (co-organized), **10:30–17:00**, **Room M2**
	G3.1/CL5.14/CR6.10/GD3.4/GM10.6/NH8.3/OS1.17, How much does glacial isostatic adjustment contribute to earth system modelling? (co-organized), **10:30–12:00**, **Room 1.61**
MOL, 12:15–13:15	**UMI0**, Plenary, **12:15–13:15**, **Room E1**
MO3, 13:30–15:00	**CL1.11/AS4.18/CR2.8**, The state-of-the-art in ice coring sciences (co-organized), **13:30–17:00**, **Room F2**
	CL1.15, Quaternary climate archives and proxy uncertainty, **08:30–15:00**, **Room E1**
	CL3.04, Impacts at 1.5°C warming and how we get there, **13:30–17:00**, **Room 0.14**
	OS1.2/AS1.20/CL1.29, The North Atlantic: natural variability and global change (co-organized), **08:30–17:00**, **Room D2**
	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**
	NP4.1/AS4.13/CL5.06, Time Series Analysis, Prediction, Verification and Inter-Comparison of Geoscientific Observations and Model Data (co-organized), **10:30–17:00**, **Room M2**
MO4, 15:30–17:00	**CL1.11/AS4.18/CR2.8**, The state-of-the-art in ice coring sciences (co-organized), **13:30–17:00**, **Room F2**

	CL3.04, Impacts at 1.5°C warming and how we get there, **13:30–17:00**, **Room 0.14**
	OS1.2/AS1.20/CL1.29, The North Atlantic: natural variability and global change (co-organized), **08:30–17:00**, **Room D2**
	HS5.9/CL2.17/CR6.9/NH1.9, Water infrastructure risks under climate variability and change: role of data analysis, operating approaches, hydro-meteorological and multi-sectoral forecasts (co-organized), **15:30–17:00**, **Room 2.95**
	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**
	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**
	NP4.1/AS4.13/CL5.06, Time Series Analysis, Prediction, Verification and Inter-Comparison of Geoscientific Observations and Model Data (co-organized), **10:30–17:00**, **Room M2**
Tuesday, 25 April	
TU1, 08:30–10:00	**CL1.13**, The speleothem archive: understanding processes and interpreting Quaternary climate change, **08:30–12:00**, **Room F2**
	CL4.08/HS11.5, Understanding past, present and future changes in the hydrological cycle (co-organized), **08:30–10:00**, **Room 0.14**
	CL5.10, Regional climate modeling, including CORDEX, **08:30–15:00**, **Room E1**
	OS1.2/AS1.20/CL1.29, The North Atlantic: natural variability and global change (co-organized), **08:30–10:00**, **Room G2**
	GD6.2/CL1.32/CR5.6/EMRP4.29/SM10.6/TS9.7, Unveiling the structure, evolution and influence of the Antarctic Lithosphere (co-organized), **08:30–10:00**, **Room L7**
	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**
TU2, 10:30–12:00	**CL1.13**, The speleothem archive: understanding processes and interpreting Quaternary climate change, **08:30–12:00**, **Room F2**
	CL3.08, From climate to impacts: Linking models and projecting impacts across sectors, **10:30–12:00**, **Room 0.94**
	CL4.18, Understanding, representing and communicating earth system processes in weather and climate, **10:30–12:00**, **Room 0.14**
	CL5.10, Regional climate modeling, including CORDEX, **08:30–15:00**, **Room E1**
	GM1.1/EOS20/CL5.18/SSS13.1, Beyond the case study: Concepts in Earth Sciences (co-organized), **10:30–12:00**, **Room L1**
TUL, 12:15–13:15	**DM3/CL**, Division meeting for Climate: Past, Present & Future (CL) (co-organized), **12:15–13:15**, **Room F2**
TU3, 13:30–15:00	**CL1.03**, Studying the climate of the last two millennia, **13:30–17:00**, **Room F2**
	CL1.28, Quaternary glacial-interglacial transitions: causes and effects, **13:30–17:00**, **Room 0.14**
	CL2.05, Arctic climate change: governing mechanisms and global implications, **13:30–15:00**, **Room 0.94**
	CL5.10, Regional climate modeling, including CORDEX, **08:30–15:00**, **Room E1**
	ML33/CL, CL Division Outstanding ECS Award Lecture by Francesco Muschitiello (co-organized), **14:45–15:00**, **Room 0.14**

	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**
	NH9.1/CL2.26, Natural hazard event analyses for risk reduction and adaptation (co-organized), **13:30–15:00**, **Room 2.31**
	GI2.1/AS4.42/BG9.21/CL5.16/NH6.10/PS1.6/ST3.7, Atmospheric and Meteorological Instrumentation (co-organized), **13:30–17:00**, **Room 0.96**
TU4, 15:30–17:00	**CL1.03**, Studying the climate of the last two millennia, **13:30–17:00**, **Room F2**
	CL1.28, Quaternary glacial-interglacial transitions: causes and effects, **13:30–17:00**, **Room 0.14**
	CL5.11/AS1.32, Convection-permitting atmospheric modelling (co-organized), **15:30–17:00**, **Room 0.94**
	GI2.1/AS4.42/BG9.21/CL5.16/NH6.10/PS1.6/ST3.7, Atmospheric and Meteorological Instrumentation (co-organized), **13:30–17:00**, **Room 0.96**
	SC20/AS5.1/CL6.02/NP9.5, Response, variability and transitions in geophysical systems (co-organized), **15:30–17:00**, **Room -2.31**
TU5, 17:30–19:00	**SC49/CL6.03/CR6.12/OS**, Meet Your Reviewer (co-organized), **17:30–19:00**, **Room N2**

Wednesday, 26 April

WE1, 08:30–10:00	**CL2.02**, Urban climate and urban biometeorology, **08:30–12:00**, **Room 0.14**
	CL2.04, Earth radiation budget, radiative forcing and climate change, **08:30–12:00**, **Room E1**
	CL3.03/AS1.22/CR1.6/OS1.15, Polar Climate Predictability and Prediction (co-organized), **08:30–10:00**, **Room 0.96**
	CL4.04/OS1.16, Decadal to millennial scale climate variability of the late Quaternary (co-organized), **08:30–15:00**, **Room F2**
	CR1.1/CL2.18, State of the Cryosphere: Observations and Modelling (co-organized), **08:30–12:00**, **Room G2**
	US1/AS4.52/BG9.67/CL4.20/SSS0.4, Vegetation-climate interactions across time scales (co-organized), **08:30–12:00**, **Room E2**
	AS4.10/CL5.12/ESSI1.14/OS4.15, Recent developments in numerical atmospheric, oceanic and sea-ice models: towards global cloud and eddy resolving simulations on exascale supercomputers (co-organized), **08:30–12:00**, **Room 0.94**
	OS5.2/CL5.15, Surface Waves and Wave-Coupled Effects in Lower Atmosphere and Upper Ocean (co-organized), **08:30–12:00**, **Room -2.32**
WE2, 10:30–12:00	**CL2.01**, Detecting and attributing climate change: trends, extreme events, and impacts, **10:30–12:00**, **Room 0.96**
	CL2.02, Urban climate and urban biometeorology, **08:30–12:00**, **Room 0.14**
	CL2.04, Earth radiation budget, radiative forcing and climate change, **08:30–12:00**, **Room E1**
	CL4.04/OS1.16, Decadal to millennial scale climate variability of the late Quaternary (co-organized), **08:30–15:00**, **Room F2**
	ML14/CL, Hans Oeschger Medal Lecture by Denis-Didier Rousseau (co-organized), **10:30–11:30**, **Room F2**
	CR1.1/CL2.18, State of the Cryosphere: Observations and Modelling (co-organized), **08:30–12:00**, **Room G2**
	US1/AS4.52/BG9.67/CL4.20/SSS0.4, Vegetation-climate interactions across time scales (co-organized), **08:30–12:00**, **Room E2**
	AS4.10/CL5.12/ESSI1.14/OS4.15, Recent developments in numerical atmospheric, oceanic and sea-ice models: towards global cloud and eddy resolving simulations on exascale supercomputers (co-organized), **08:30–12:00**, **Room 0.94**

	OS5.2/CL5.15, Surface Waves and Wave-Coupled Effects in Lower Atmosphere and Upper Ocean (co-organized), **08:30–12:00**, **Room -2.32**
WE3, 13:30–15:00	**CL1.01/AS4.9/CR1.12/HS7.9/OS1.13**, Into the Anthropocene; Observing and interpreting the historical record of temperature and other climate indicators (co-organized), **13:30–15:00**, **Room 0.14**
	CL1.25/AS4.26/HS2.4.5, Flood and weather extremes of the past (co-organized), **13:30–15:00**, **Room 0.96**
	CL4.04/OS1.16, Decadal to millennial scale climate variability of the late Quaternary (co-organized), **08:30–15:00**, **Room F2**
	CL4.07/AS1.14/BG9.18/CR1.7/HS11.3, Mountain climates: processes, change and related impacts (co-organized), **13:30–17:00**, **Room E2**
	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**
	CR1.2/CL4.09, Ice-sheet and climate interactions (co-organized), **13:30–15:00**, **Room -2.32**
	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**
	SC56/CL6.04/CR6.13, Communicating Climate Change - blogging as a group (co-organized), **13:30–15:00**, **Room -2.85**
WE4, 15:30–17:00	**CL1.02**, Historical Climatology, **15:30–17:00**, **Room 0.14**
	CL1.23/BG9.14/CR6.3/OS2.5, Polar continental margins and fjords – climate, oceanography, tectonics and geohazards (co-organized), **15:30–17:00**, **Room 0.96**
	CL4.07/AS1.14/BG9.18/CR1.7/HS11.3, Mountain climates: processes, change and related impacts (co-organized), **13:30–17:00**, **Room E2**
	CL5.03/GM2.3, Advances in Quaternary Geochronology (co-organized), **15:30–17:00**, **Room F2**
	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**
	AS1.25/CL4.14, Past and future atmospheric temperature changes and their drivers (co-organized), **15:30–17:00**, **Room 0.94**
	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**
WE5, 17:30–19:00	**SC7/CL6.01/NP9.1**, Short course: Scales and Scaling in the Climate System (co-organized), **17:30–20:00**, **Room L2**
	SC65/CL6.15, Introduction to isotope science in speleothem research (co-organized), **17:30–19:00**, **Room -2.31**
WE6, 19:00–20:00	**SC7/CL6.01/NP9.1**, Short course: Scales and Scaling in the Climate System (co-organized), **17:30–20:00**, **Room L2**

Thursday, 27 April

TH1, 08:30–10:00	**CL4.10/CR1.13/OS1.12**, Sea level rise: past, present and future (co-organized), **08:30–12:00**, **Room F2**
	CL5.08/AS1.3/OS4.10, Downscaling: methods and applications (co-organized), **08:30–12:00**, **Room 0.14**
	HS7.2/AS1.9/CL2.15/NH1.14/NP10.1, Precipitation uncertainty and variability: observations, ensemble simulation and downscaling (co-organized), **08:30–10:00**, **Room 2.95**

	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**
	GM6.1/CL4.12/TS4.5, Geomorphic and tectonic response to climate variability at different temporal and spatial scales: insights from surface processes and continental archives (co-organized), **08:30–10:00**, **Room L3**
TH2, 10:30–12:00	**CL4.10/CR1.13/OS1.12**, Sea level rise: past, present and future (co-organized), **08:30–12:00**, **Room F2**
	CL5.08/AS1.3/OS4.10, Downscaling: methods and applications (co-organized), **08:30–12:00**, **Room 0.14**
	G5.2/AS4.44/CL2.20, Atmospheric Remote Sensing with Space Geodetic Techniques (co-organized), **10:30–17:00**, **Room D1**
	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	**CL1.12/BG9.16/SSP4.9**, Tree ring proxies of climatic and environmental change (co-organized), **13:30–17:00**, **Room E2**
	CL4.15, The climate of the Mediterranean region: from basic science to impacts, **13:30–17:00**, **Room F2**
	CL5.05, Development of climate datasets: homogenization, trends, variability and extremes, including sub-daily timescales, **13:30–17:00**, **Room 0.14**
	GM10.1/CL1.33/CR4.8, The Legacy of Mountain Glaciations – Glacial landforms and their palaeoclimatic interpretation (co-organized), **13:30–15:00**, **Room N1**
	SSS4.5/BG9.57/CL2.12, Plant-soil-microbial interactions under global change (co-organized), **13:30–17:00**, **Room -2.47**
	CR1.4/CL2.19, Glaciers and ice caps under climate change (co-organized), **13:30–17:00**, **Room -2.32**
	G5.2/AS4.44/CL2.20, Atmospheric Remote Sensing with Space Geodetic Techniques (co-organized), **10:30–17:00**, **Room D1**
TH4, 15:30–17:00	**CL1.12/BG9.16/SSP4.9**, Tree ring proxies of climatic and environmental change (co-organized), **13:30–17:00**, **Room E2**
	CL4.15, The climate of the Mediterranean region: from basic science to impacts, **13:30–17:00**, **Room F2**
	CL5.05, Development of climate datasets: homogenization, trends, variability and extremes, including sub-daily timescales, **13:30–17:00**, **Room 0.14**
	OS1.8/CL2.08, Tropical & Subtropical Ocean Circulation, Equatorial to Mid-Latitude Air-Sea Interactions (co-organized), **15:30–17:00**, **Room 0.49**
	SSS4.5/BG9.57/CL2.12, Plant-soil-microbial interactions under global change (co-organized), **13:30–17:00**, **Room -2.47**
	CR1.4/CL2.19, Glaciers and ice caps under climate change (co-organized), **13:30–17:00**, **Room -2.32**
	G5.2/AS4.44/CL2.20, Atmospheric Remote Sensing with Space Geodetic Techniques (co-organized), **10:30–17:00**, **Room M1**
	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**
	SC66/CL6.05/CR6.14, Polar Science Career Panel (EGU Cryosphere and APECS) (co-organized), **15:30–17:00**, **Room -2.16**
TH6, 19:00–20:00	**ML21/CL**, Milutin Milankovic Medal Lecture by Axel Timmermann (co-organized), **19:00–20:00**, **Room F2**

Friday, 28 April	
FR1, 08:30–10:00	**CL1.21/BG9.59/OS2.10/SSP2.8/SSS3.15**, Past climate - isotopic and multi-proxy continental and shallow marine records (co-organized), **08:30–10:00**, **Room 0.94**
	CL1.31, Paleoclimates and ice dynamics from the Cretaceous to the Holocene: learning about past and future climate changes from numerical experiments and model-data comparisons, **08:30–12:00**, **Room F2**
	CL4.11, Land-climate interactions from models and observations: Implications from past to future climate, **08:30–12:00**, **Room 0.14**
	SSP4.7/CL1.08/NH2.9/SM1.4, Integrating stratigraphy, sedimentology, paleontology and paleoclimate in human evolution and dispersal studies - from early hominins to the Anthropocene (co-organized), **08:30–12:00**, **Room 1.85**
	AS4.16/BG9.2/CL2.14/HS11.1, Stable isotopes in the atmosphere - from vapor to precipitation (co-organized), **08:30–10:00**, **Room F1**
	BG2.3/CL2.31/SSS10.17, Forest Management under Climate Change (co-organized), **08:30–10:15**, **Room 2.20**
	HS4.6/CL3.02, From sub-seasonal forecasting to climate projections: predicting hydrologic extremes and servicing water managers (co-organized), **08:30–12:00**, **Room 2.95**
	AS1.19/CL3.10, Mid-latitude Cyclones and Storms: Diagnostics of Observed and Future Trends, and related Impacts (co-organized), **08:30–10:00**, **Room 0.96**
	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**
FR2, 10:30–12:00	**CL1.19/AS4.17/OS1.19**, Advances in integrating ice core, marine and terrestrial records and their timescales (INTIMATE and IntCal) (co-organized), **10:30–12:00**, **Room 0.94**
	CL1.31, Paleoclimates and ice dynamics from the Cretaceous to the Holocene: learning about past and future climate changes from numerical experiments and model-data comparisons, **08:30–12:00**, **Room F2**
	CL4.11, Land-climate interactions from models and observations: Implications from past to future climate, **08:30–12:00**, **Room 0.14**
	SSP4.7/CL1.08/NH2.9/SM1.4, Integrating stratigraphy, sedimentology, paleontology and paleoclimate in human evolution and dispersal studies - from early hominins to the Anthropocene (co-organized), **08:30–12:00**, **Room 1.85**
	AS4.3/CL2.21, Atmospheric composition, weather and climate in Sub-Saharan Africa (co-organized), **10:30–17:00**, **Room E2**
	HS4.6/CL3.02, From sub-seasonal forecasting to climate projections: predicting hydrologic extremes and servicing water managers (co-organized), **08:30–12:00**, **Room 2.95**
	OS1.9/AS1.17/BG9.60/CL4.16, The Indian Ocean’s past, present, and future – A session in Honour of Gary Meyers (co-organized), **10:30–12:00**, **Room 0.49**
	NP3.3/CL5.19, Scaling, multifractals and Nonlinear dynamics in the atmosphere, ocean, climate and environment (co-organized), **10:30–15:00**, **Room M2**
	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**

FR3, 13:30–15:00	**CL1.18/OS2.9**, Annually resolved archives of marine climate change (co-organized), **13:30–17:00**, **Room 0.94**
	CL3.01, Climate Predictions - from monthly, seasonal to decadal time scales, **13:30–17:00**, **Room 0.14**
	CL4.17/AS1.16/OS1.22, Tropical Climate Variability and Teleconnections: past, present and future (co-organized), **13:30–17:00**, **Room F2**
	AS4.3/CL2.21, Atmospheric composition, weather and climate in Sub-Saharan Africa (co-organized), **10:30–17:00**, **Room E2**
	NP3.3/CL5.19, Scaling, multifractals and Nonlinear dynamics in the atmosphere, ocean, climate and environment (co-organized), **10:30–15:00**, **Room M2**
	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**
FR4, 15:30–17:00	**CL1.18/OS2.9**, Annually resolved archives of marine climate change (co-organized), **13:30–17:00**, **Room 0.94**
	CL3.01, Climate Predictions - from monthly, seasonal to decadal time scales, **13:30–17:00**, **Room 0.14**
	CL4.17/AS1.16/OS1.22, Tropical Climate Variability and Teleconnections: past, present and future (co-organized), **13:30–17:00**, **Room F2**
	AS4.3/CL2.21, Atmospheric composition, weather and climate in Sub-Saharan Africa (co-organized), **10:30–17:00**, **Room E2**
	NH1.7/CL2.23/HS11.28, Addressing the challenge of compound events, multi-risk modelling and cross-risk assessment methods (co-organized), **15:30–17:00**, **Room L6**

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Tuesday, 25 April	
TU1, 08:30–10:00	**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**
TU3, 13:30–15:00	**CL4.01/AS3.4/GM11.2**, Aeolian dust: Initiator, Player, and Recorder of Environmental Change (co-organized), **PICO spot 5a**
	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	**CL4.01/AS3.4/GM11.2**, Aeolian dust: Initiator, Player, and Recorder of Environmental Change (co-organized), **PICO spot 5a**
Wednesday, 26 April	
WE1, 08:30–10:00	**HS2.2.2/AS4.15/CL2.07/CR3.6/NH1.16**, Mountains and snow: Advances in large-scale land surface, hydrological and climate modelling (co-organized), **PICO spot 3**
WE2, 10:30–12:00	**HS2.2.2/AS4.15/CL2.07/CR3.6/NH1.16**, Mountains and snow: Advances in large-scale land surface, hydrological and climate modelling (co-organized), **PICO spot 3**
WE3, 13:30–15:00	**CL5.01**, Climate Services - Underpinning Science, **PICO spot A**
WE4, 15:30–17:00	**CL5.13**, Towards CMIP6 internationally coordinated climate modeling experiments: the role and use of modeling and observation research infrastructures, **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**
TH2, 10:30–12:00	**CL4.03**, Climate change and its impacts in the Baltic and North Sea regions: Observations and model projections, **PICO spot 5a**
	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**
Friday, 28 April	
FR2, 10:30–12:00	**CL5.04**, Synoptic climatology – methods and applications, **PICO spot 5a**
FR4, 15:30–17:00	**BG1.5/CL2.33/HS6.6**, Climate extremes, biosphere and society: impacts, remote sensing, and feedbacks (co-organized), **PICO spot 5a**

CL – Climate: Past, Present, Future (#EGU17CL) – Posters

Monday, 24 April	
MO5, 17:30–19:00	**CL0.00**, Open Session on Climate: Past, Present and Future, **Hall X5**, **X5.1–X5.21**
	CL1.11/AS4.18/CR2.8, The state-of-the-art in ice coring sciences (co-organized), **Hall X5**, **X5.22–X5.49**
	CL1.15, Quaternary climate archives and proxy uncertainty, **Hall X5**, **X5.50–X5.81**
	CL2.09/AS4.8/BG9.19, Phenology and seasonality in climate change and ecology (co-organized), **Hall X5**, **X5.82–X5.112**
	CL3.04, Impacts at 1.5°C warming and how we get there, **Hall X5**, **X5.113–X5.133**
	CL3.07/AS4.27, Extreme Events and Impacts (co-organized), **Hall X5**, **X5.134–X5.153**
	OS1.2/AS1.20/CL1.29, The North Atlantic: natural variability and global change (co-organized), **Hall X4**, **X4.1–X4.62**
	HS5.9/CL2.17/CR6.9/NH1.9, Water infrastructure risks under climate variability and change: role of data analysis, operating approaches, hydro-meteorological and multi-sectoral forecasts (co-organized), **Hall A**, **A.322–A.340**
	AS1.18/CL3.09, The global monsoons in current, future and palaeoclimates and their role in extreme weather and climate events (co-organized), **Hall X5**, **X5.154–X5.184**
	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**
	SSS9.13/BG9.45/CL4.06/CR4.7, Soils in cold-climate regions (co-organized), **Hall X1**, **X1.282–X1.300**
	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**
	NP4.1/AS4.13/CL5.06, Time Series Analysis, Prediction, Verification and Inter-Comparison of Geoscientific Observations and Model Data (co-organized), **Hall X4**, **X4.71–X4.104**
	G3.1/CL5.14/CR6.10/GD3.4/GM10.6/NH8.3/OS1.17, How much does glacial isostatic adjustment contribute to earth system modelling? (co-organized), **Hall X3**, **X3.125–X3.141**
Tuesday, 25 April	
TU5, 17:30–19:00	**CL1.03**, Studying the climate of the last two millennia, **Hall X5**, **X5.1–X5.28**
	CL1.13, The speleothem archive: understanding processes and interpreting Quaternary climate change, **Hall X5**, **X5.29–X5.53**
	CL1.28, Quaternary glacial-interglacial transitions: causes and effects, **Hall X5**, **X5.54–X5.72**
	CL2.05, Arctic climate change: governing mechanisms and global implications, **Hall X5**, **X5.73–X5.91**
	CL3.08, From climate to impacts: Linking models and projecting impacts across sectors, **Hall X5**, **X5.92–X5.110**
	CL4.08/HS11.5, Understanding past, present and future changes in the hydrological cycle (co-organized), **Hall X5**, **X5.111–X5.127**

	CL4.18, Understanding, representing and communicating earth system processes in weather and climate, **Hall X5**, **X5.128–X5.147**
	CL5.10, Regional climate modeling, including CORDEX, **Hall X5**, **X5.148–X5.186**
	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**
	GD6.2/CL1.32/CR5.6/EMRP4.29/SM10.6/TS9.7, Unveiling the structure, evolution and influence of the Antarctic Lithosphere (co-organized), **Hall X2**, **X2.289–X2.305**
	NH9.1/CL2.26, Natural hazard event analyses for risk reduction and adaptation (co-organized), **Hall X3**, **X3.218–X3.238**
	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**
	GI2.1/AS4.42/BG9.21/CL5.16/NH6.10/PS1.6/ST3.7, Atmospheric and Meteorological Instrumentation (co-organized), **Hall X4**, **X4.176–X4.190**
	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	**CL1.01/AS4.9/CR1.12/HS7.9/OS1.13**, Into the Anthropocene; Observing and interpreting the historical record of temperature and other climate indicators (co-organized), **Hall X5**, **X5.1–X5.21**
	CL1.02, Historical Climatology, **Hall X5**, **X5.22–X5.41**
	CL1.23/BG9.14/CR6.3/OS2.5, Polar continental margins and fjords – climate, oceanography, tectonics and geohazards (co-organized), **Hall X5**, **X5.42–X5.57**
	CL1.25/AS4.26/HS2.4.5, Flood and weather extremes of the past (co-organized), **Hall X5**, **X5.58–X5.73**
	CL2.01, Detecting and attributing climate change: trends, extreme events, and impacts, **Hall X5**, **X5.74–X5.87**
	CL2.02, Urban climate and urban biometeorology, **Hall X5**, **X5.88–X5.115**
	CL2.04, Earth radiation budget, radiative forcing and climate change, **Hall X5**, **X5.116–X5.142**
	CL3.03/AS1.22/CR1.6/OS1.15, Polar Climate Predictability and Prediction (co-organized), **Hall X5**, **X5.143–X5.156**
	CL4.04/OS1.16, Decadal to millennial scale climate variability of the late Quaternary (co-organized), **Hall X5**, **X5.157–X5.191**
	CL4.07/AS1.14/BG9.18/CR1.7/HS11.3, Mountain climates: processes, change and related impacts (co-organized), **Hall X5**, **X5.192–X5.223**
	CL5.03/GM2.3, Advances in Quaternary Geochronology (co-organized), **Hall X5**, **X5.224–X5.243**
	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**
	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**
	CR1.1/CL2.18, State of the Cryosphere: Observations and Modelling (co-organized), **Hall X4**, **X4.1–X4.15**

	NH9.7/AS4.33/CL2.28/HS11.34, Urban Resilience Studies –Risk Mapping (co-organized), **Hall X3**, **X3.203–X3.219**
	CR1.2/CL4.09, Ice-sheet and climate interactions (co-organized), **Hall X4**, **X4.16–X4.27**
	AS1.25/CL4.14, Past and future atmospheric temperature changes and their drivers (co-organized), **Hall X5**, **X5.330–X5.346**
	AS4.10/CL5.12/ESSI1.14/OS4.15, Recent developments in numerical atmospheric, oceanic and sea-ice models: towards global cloud and eddy resolving simulations on exascale supercomputers (co-organized), **Hall X5**, **X5.493–X5.525**
	OS5.2/CL5.15, Surface Waves and Wave-Coupled Effects in Lower Atmosphere and Upper Ocean (co-organized), **Hall X4**, **X4.124–X4.153**
	GI1.3/AS4.41/CL5.17/EMRP4.39/HS11.7/NH6.9/SM5.9, Environmental sensor networks (co-organized), **Hall X4**, **X4.274–X4.281**
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	**CL1.12/BG9.16/SSP4.9**, Tree ring proxies of climatic and environmental change (co-organized), **Hall X5**, **X5.1–X5.33**
	CL4.10/CR1.13/OS1.12, Sea level rise: past, present and future (co-organized), **Hall X5**, **X5.34–X5.66**
	CL4.15, The climate of the Mediterranean region: from basic science to impacts, **Hall X5**, **X5.67–X5.97**
	CL5.05, Development of climate datasets: homogenization, trends, variability and extremes, including sub-daily timescales, **Hall X5**, **X5.98–X5.119**
	CL5.08/AS1.3/OS4.10, Downscaling: methods and applications (co-organized), **Hall X5**, **X5.120–X5.146**
	CL5.11/AS1.32, Convection-permitting atmospheric modelling (co-organized), **Hall X5**, **X5.147–X5.162**
	GM10.1/CL1.33/CR4.8, The Legacy of Mountain Glaciations – Glacial landforms and their palaeoclimatic interpretation (co-organized), **Hall X2**, **X2.74–X2.92**
	OS1.8/CL2.08, Tropical & Subtropical Ocean Circulation, Equatorial to Mid-Latitude Air-Sea Interactions (co-organized), **Hall X4**, **X4.27–X4.55**
	SSS4.5/BG9.57/CL2.12, Plant-soil-microbial interactions under global change (co-organized), **Hall X1**, **X1.179–X1.198**
	HS7.2/AS1.9/CL2.15/NH1.14/NP10.1, Precipitation uncertainty and variability: observations, ensemble simulation and downscaling (co-organized), **Hall A**, **A.220–A.240**
	CR1.4/CL2.19, Glaciers and ice caps under climate change (co-organized), **Hall X5**, **X5.400–X5.414**
	G5.2/AS4.44/CL2.20, Atmospheric Remote Sensing with Space Geodetic Techniques (co-organized), **Hall X3**, **X3.140–X3.170**
	CR1.5/AS4.22/CL2.22, Atmosphere – Cryosphere interaction, poster only. (co-organized), **Hall X5**, **X5.415–X5.424**
	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**
	NP3.3/CL5.19, Scaling, multifractals and Nonlinear dynamics in the atmosphere, ocean, climate and environment (co-organized), **Hall X4**, **X4.119–X4.146**

Friday, 28 April	
FR2, 10:30–12:00	**BG2.3/CL2.31/SSS10.17**, Forest Management under Climate Change (co-organized), **Hall A**, **A.52–A.68**
	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**
FR3, 13:30–15:00	**SSP4.7/CL1.08/NH2.9/SM1.4**, Integrating stratigraphy, sedimentology, paleontology and paleoclimate in human evolution and dispersal studies - from early hominins to the Anthropocene (co-organized), **Hall X2**, **X2.35–X2.54**
FR5, 17:30–19:00	**CL1.18/OS2.9**, Annually resolved archives of marine climate change (co-organized), **Hall X5**, **X5.1–X5.18**
	CL1.19/AS4.17/OS1.19, Advances in integrating ice core, marine and terrestrial records and their timescales (INTIMATE and IntCal) (co-organized), **Hall X5**, **X5.19–X5.35**
	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**
	CL1.31, Paleoclimates and ice dynamics from the Cretaceous to the Holocene: learning about past and future climate changes from numerical experiments and model-data comparisons, **Hall X5**, **X5.57–X5.82**
	CL3.01, Climate Predictions - from monthly, seasonal to decadal time scales, **Hall X5**, **X5.83–X5.110**
	CL4.11, Land-climate interactions from models and observations: Implications from past to future climate, **Hall X5**, **X5.111–X5.135**
	CL4.17/AS1.16/OS1.22, Tropical Climate Variability and Teleconnections: past, present and future (co-organized), **Hall X5**, **X5.136–X5.167**
	AS4.16/BG9.2/CL2.14/HS11.1, Stable isotopes in the atmosphere - from vapor to precipitation (co-organized), **Hall X5**, **X5.411–X5.424**
	AS4.3/CL2.21, Atmospheric composition, weather and climate in Sub-Saharan Africa (co-organized), **Hall X5**, **X5.357–X5.396**
	NH1.7/CL2.23/HS11.28, Addressing the challenge of compound events, multi-risk modelling and cross-risk assessment methods (co-organized), **Hall X3**, **X3.122–X3.139**
	NH6.4/BG9.34/CL2.24/HS11.32, Assessment of climate hazards' impact on natural and cultural environment: Remote sensing and GIS applications (co-organized), **Hall X3**, **X3.259–X3.271**
	HS4.6/CL3.02, From sub-seasonal forecasting to climate projections: predicting hydrologic extremes and servicing water managers (co-organized), **Hall A**, **A.414–A.429**
	AS1.19/CL3.10, Mid-latitude Cyclones and Storms: Diagnostics of Observed and Future Trends, and related Impacts (co-organized), **Hall X5**, **X5.168–X5.190**
	GM6.1/CL4.12/TS4.5, Geomorphic and tectonic response to climate variability at different temporal and spatial scales: insights from surface processes and continental archives (co-organized), **Hall X2**, **X2.136–X2.150**
	OS1.9/AS1.17/BG9.60/CL4.16, The Indian Ocean's past, present, and future – A session in Honour of Gary Meyers (co-organized), **Hall X4**, **X4.1–X4.14**
	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**