

AS – Atmospheric Sciences (#EGU18AS) – Orals

Monday, 09 April

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| MO1 , 08:30–10:00 | AS1.2 , Forecasting the weather, 08:30–17:00, Room E2 |
| | AS1.16/CL2.04/HS11.6 , Precipitation: Measurement, Climatology, Remote Sensing, and Modeling (co-organized), 08:30–17:00, Room 0.11 |
| | AS1.37 , Atmospheric Convection, 08:30–12:00, Room F1 |
| | AS3.16 , Satellite observations of tropospheric composition and pollution, analyses with models and applications, 08:30–10:00, Room 0.88 |
| | IE4.5/AS5.14/BG1.22/CL5.26/EMRP4.35/ESSI2.12/GD10.7/GI1.7 , Information extraction from satellite observations using data-driven methods (co-organized), 08:30–10:00, Room N2 |
| | OS1.5/AS1.29/CL2.14 , Climate variability of the Atlantic and Europe (co-organized), 08:30–15:00, Room L3 |
| | GI0.2/AS4.23/BG1.27/CL5.15/EMRP4.36/ERE1.8/G6.2/GD1.2/GM12.5/GMPV10.10/HS11.1/NH9.24/NP9.2/SM1.11/SSP1.3/SSS13.70/TS1.8 , COST Actions in Geosciences: breakthrough ideas, research activities and results (co-organized), 08:30–11:45, Room 0.49 |
| MO2 , 10:30–12:00 | AS1.2 , Forecasting the weather, 08:30–17:00, Room E2 |
| | AS1.16/CL2.04/HS11.6 , Precipitation: Measurement, Climatology, Remote Sensing, and Modeling (co-organized), 08:30–17:00, Room 0.11 |
| | AS1.37 , Atmospheric Convection, 08:30–12:00, Room F1 |
| | AS3.18 , Remote-Sensing of Atmospheric Carbon Dioxide and Methane, 10:30–12:00, Room 0.88 |
| | IE4.1/NP4.3/AS5.13/CL5.18/ESSI2.3/GD10.6/HS3.7/NH11.14/SM7.03 , Big data and machine learning in geosciences (co-organized), 10:30–17:00, Room N2 |
| | OS1.5/AS1.29/CL2.14 , Climate variability of the Atlantic and Europe (co-organized), 08:30–15:00, Room L3 |
| | CL4.11/AS1.34 , Tropical-Extratropical Variability and Teleconnections: past, present and future (co-organized), 10:30–17:00, Room 0.14 |
| | NP6.1/AS2.5 , Turbulence in the Atmosphere and Ocean (co-organized), 10:30–15:00, Room M2 |
| GI0.2/AS4.23/BG1.27/CL5.15/EMRP4.36/ERE1.8/G6.2/GD1.2/GM12.5/GMPV10.10/HS11.1/NH9.24/NP9.2/SM1.11/SSP1.3/SSS13.70/TS1.8 , COST Actions in Geosciences: breakthrough ideas, research activities and results (co-organized), 08:30–11:45, Room 0.49 | |
| MO3 , 13:30–15:00 | AS1.2 , Forecasting the weather, 08:30–17:00, Room E2 |
| | AS1.16/CL2.04/HS11.6 , Precipitation: Measurement, Climatology, Remote Sensing, and Modeling (co-organized), 08:30–17:00, Room 0.11 |
| | AS1.39 , Clouds, Circulation and Climate Sensitivity: Advances in Observations and Understanding in pursuit of a Grand Challenge, 13:30–17:00, Room F1 |
| | AS3.22 , Gas Phase Composition and Reactivity, 13:30–15:00, Room 0.88 |
| | IE4.1/NP4.3/AS5.13/CL5.18/ESSI2.3/GD10.6/HS3.7/NH11.14/SM7.03 , Big data and machine learning in geosciences (co-organized), 10:30–17:00, Room N2 |
| | OS1.5/AS1.29/CL2.14 , Climate variability of the Atlantic and Europe (co-organized), 08:30–15:00, Room L3 |

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| | CL4.11/AS1.34 , Tropical-Extratropical Variability and Teleconnections: past, present and future (co-organized), 10:30–17:00, Room 0.14 |
| | NP6.1/AS2.5 , Turbulence in the Atmosphere and Ocean (co-organized), 10:30–15:00, Room M2 |
| | BG1.2/AS4.34 , Stable isotopes and novel tracers in biogeochemical and atmospheric research (co-organized), 13:30–17:00, Room 2.20 |
| | GI2.1/AS5.2/BG1.29/CL5.27/NH1.19/PS5.4/ST4.9 , Atmospheric and Meteorological Instrumentation (co-organized), 13:30–15:00, Room 0.49 |
| | NH9.12/AS5.17/CL5.30/ESSI1.9/GI0.4/GMPV6.12/HS11.44/SM3.15/SSS13.66 , Methods and Tools for Natural Risk Management and Communications – Innovative ways of delivering information to end users and sharing data among the scientific community (co-organized), 13:30–15:00, Room L8 |
| MO4, 15:30–17:00 | AS1.2 , Forecasting the weather, 08:30–17:00, Room E2 |
| | AS1.16/CL2.04/HS11.6 , Precipitation: Measurement, Climatology, Remote Sensing, and Modeling (co-organized), 08:30–17:00, Room 0.11 |
| | AS1.39 , Clouds, Circulation and Climate Sensitivity: Advances in Observations and Understanding in pursuit of a Grand Challenge, 13:30–17:00, Room F1 |
| | AS3.11 , Emission estimates of trace gases and aerosols constrained by space-based observations, 15:30–17:00, Room 0.88 |
| | IE4.1/NP4.3/AS5.13/CL5.18/ESSI2.3/GD10.6/HS3.7/NH11.14/SM7.03 , Big data and machine learning in geosciences (co-organized), 10:30–17:00, Room N2 |
| | NP2.2/AS1.9/CL2.11 , Dynamical Extremes in Climate Sciences (co-organized), 15:30–17:00, Room M2 |
| | HS4.3/AS1.10/NH1.13 , Ensemble hydro-meteorological forecasting and predictive uncertainty estimation (co-organized), 15:30–17:00, Room 2.15 |
| | CL4.11/AS1.34 , Tropical-Extratropical Variability and Teleconnections: past, present and future (co-organized), 10:30–17:00, Room 0.14 |
| | CL1.10/AS3.7 , Eurasian Aeolian Deposits: Understanding atmospheric variability and interactions (co-organized), 15:30–17:00, Room 0.94 |
| | BG1.2/AS4.34 , Stable isotopes and novel tracers in biogeochemical and atmospheric research (co-organized), 13:30–17:00, Room 2.20 |

Tuesday, 10 April

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| TU1, 08:30–10:00 | AS1.1 , Numerical weather prediction, data assimilation and ensemble forecasting, 08:30–15:00, Room E2 |
| | AS3.17/BG1.28 , Global Carbon Observations and their Use for Research and Decision-Making (co-organized), 08:30–10:00, Room 0.88 |
| | AS3.29 , Urban air quality, 08:30–17:00, Room 0.11 |
| | AS4.9/CL2.12 , Atmospheric composition, weather and climate in Sub-Saharan Africa (co-organized), 08:30–10:00, Room F1 |
| | IE2.7/AS3.6/BG1.10/CL2.24/CR8.7 , Atmosphere – Cryosphere interaction with focus on transport, deposition and effects of dust, black carbon, and other aerosols (co-organized), 08:30–12:00, Room N2 |
| | NH1.2/AS1.14/SSS13.43 , Atmospheric Electricity, Thunderstorms, Lightning and their effects (co-organized), 08:30–15:00, Room L6 |
| | NP2.1/AS1.25/CL2.10/OS1.13 , ENSO: Dynamics, Predictability and Modelling (co-organized), 08:30–12:00, Room L2 |
| | NH1.8/AS4.26 , Extreme heat events: processes, impacts and adaptation (co-organized), 08:30–10:00, Room L8 |

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| | HS4.1/AS4.27/GM8.7/NH1.11 , Flash floods and associated hydro-geomorphic processes: observation, modelling and warning (co-organized), 08:30–10:00, Room B |
| TU2 , 10:30–12:00 | AS1.1 , Numerical weather prediction, data assimilation and ensemble forecasting, 08:30–15:00, Room E2 |
| | AS1.35 , Dynamical coupling between the stratosphere and the troposphere, 10:30–12:00, Room 0.88 |
| | AS3.13 , Remote Sensing of Clouds and Aerosols: Techniques and Applications, 10:30–17:00, Room F1 |
| | AS3.29 , Urban air quality, 08:30–17:00, Room 0.11 |
| | IE2.7/AS3.6/BG1.10/CL2.24/CR8.7 , Atmosphere – Cryosphere interaction with focus on transport, deposition and effects of dust, black carbon, and other aerosols (co-organized), 08:30–12:00, Room N2 |
| | NH1.2/AS1.14/SSS13.43 , Atmospheric Electricity, Thunderstorms, Lightning and their effects (co-organized), 08:30–15:00, Room L6 |
| | NP2.1/AS1.25/CL2.10/OS1.13 , ENSO: Dynamics, Predictability and Modelling (co-organized), 08:30–12:00, Room L2 |
| | OS5.1/AS2.4/CL2.25 , Surface Waves and Wave-Coupled Effects in Lower Atmosphere and Upper Ocean (co-organized), 10:30–15:00, Room L7 |
| TU3 , 13:30–15:00 | AS1.1 , Numerical weather prediction, data assimilation and ensemble forecasting, 08:30–15:00, Room E2 |
| | AS3.13 , Remote Sensing of Clouds and Aerosols: Techniques and Applications, 10:30–17:00, Room F1 |
| | AS3.23 , Polar Ozone and Polar Stratospheric Clouds, 13:30–15:00, Room 0.88 |
| | AS3.29 , Urban air quality, 08:30–17:00, Room 0.11 |
| | NH1.2/AS1.14/SSS13.43 , Atmospheric Electricity, Thunderstorms, Lightning and their effects (co-organized), 08:30–15:00, Room L6 |
| | OS5.1/AS2.4/CL2.25 , Surface Waves and Wave-Coupled Effects in Lower Atmosphere and Upper Ocean (co-organized), 10:30–15:00, Room L7 |
| | NH9.9/AS5.20/GI1.9/HS11.41/SSS13.64 , Monitoring and modelling of dangerous phenomena: innovative, low-cost techniques, tools and constraint of engineering-geological models for hazard evaluation and risk mitigation (co-organized), 13:30–15:00, Room L8 |
| TU4 , 15:30–17:00 | AS1.28/CL3.02 , Mid-latitude Cyclones and Storms: Diagnostics of Observed and Future Trends, and related Impacts (co-organized), 15:30–17:00, Room E2 |
| | AS1.31/ST3.7 , Joint Session of the MLT and the VarSITI-ROSMIC program (co-organized), 15:30–17:00, Room 0.88 |
| | AS3.13 , Remote Sensing of Clouds and Aerosols: Techniques and Applications, 10:30–17:00, Room F1 |
| | AS3.29 , Urban air quality, 08:30–17:00, Room 0.11 |
| | GI2.6/AS4.20/EMRP4.7/NH11.11 , Geoscience applications of environmental radioactivity (co-organized), 15:30–17:00, Room 0.49 |
| Wednesday, 11 April | |
| WE1 , 08:30–10:00 | AS1.30 , Dynamical Meteorology (General Session), 08:30–12:00, Room E2 |
| | AS3.3 , Atmospheric Ice Particles, 08:30–12:00, Room 0.88 |
| | AS3.15 , First Results of the Copernicus Sentinel-5 Precursor Mission, 08:30–15:00, Room F1 |

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| | AS3.28 , Air pollution in Asia, 08:30–17:00, Room 0.11 |
| | OS5.2/AS1.20 , Internal Gravity Waves (co-organized), 08:30–15:00, Room N1 |
| | ST4.5/AS4.15/CL2.02 , Solar Total and Spectral Irradiance Recent Observations and Results, Links with Models and Possible Consequences for Climate (co-organized), 08:30–10:00, Room L1 |
| | GI2.9/AS5.22/NH6.14/PS5.6 , Calibration/Validation of Earth Satellite Measurements (co-organized), 08:30–12:00, Room M2 |
| WE2 , 10:30–12:00 | AS1.30 , Dynamical Meteorology (General Session), 08:30–12:00, Room E2 |
| | AS3.3 , Atmospheric Ice Particles, 08:30–12:00, Room 0.88 |
| | AS3.15 , First Results of the Copernicus Sentinel-5 Precursor Mission, 08:30–15:00, Room F1 |
| | AS3.28 , Air pollution in Asia, 08:30–17:00, Room 0.11 |
| | IE2.3/AS3.10/CL4.22/GMPV6.4/NH2.2 , Characterizing, understanding and predicting the radiative effects and the climatic impacts of major volcanic eruptions (co-organized), 10:30–12:00, Room N2 |
| | OS5.2/AS1.20 , Internal Gravity Waves (co-organized), 08:30–15:00, Room N1 |
| | CL3.03/AS4.12/BG4.13/HS11.8/NH11.15/NP5.5/SSS13.13 , Earth System Prediction and Application (co-organized), 10:30–12:00, Room 0.94 |
| | GI2.9/AS5.22/NH6.14/PS5.6 , Calibration/Validation of Earth Satellite Measurements (co-organized), 08:30–12:00, Room M2 |
| WEL , 12:15–13:15 | ML2/AS/BG/CL , Alfred Wegener Medal Lecture by Meinrat O. Andreae (co-organized), 12:15–13:15, Room E1 |
| WE3 , 13:30–15:00 | AS3.15 , First Results of the Copernicus Sentinel-5 Precursor Mission, 08:30–15:00, Room F1 |
| | AS3.24/CL2.07 , Advances in estimating and attributing long-term ozone and temperature trends in the middle atmosphere (co-organized), 13:30–15:00, Room 0.88 |
| | AS3.26 , Atmospheric transport of trace species and aerosols: Modeling and observations, 13:30–15:00, Room 0.94 |
| | AS3.28 , Air pollution in Asia, 08:30–17:00, Room 0.11 |
| | NP5.3/AS1.5/HS4.8 , Advances in statistical post-processing for deterministic and ensemble forecasts (co-organized), 13:30–15:00, Room 0.49 |
| | HS7.1/AS1.18/NP3.3 , Precipitation measurement: techniques, processes and hydrological applications at the catchment scale (co-organized), 13:30–17:00, Room B |
| | OS5.2/AS1.20 , Internal Gravity Waves (co-organized), 08:30–15:00, Room N1 |
| | NH1.6/AS4.14/HS11.30 , Coupled atmosphere-hydrological modeling for improved hydro-meteorological predictions (co-organized), 13:30–15:00, Room L8 |
| WE4 , 15:30–17:00 | AS1.32 , Water vapour in the upper troposphere and middle atmosphere: a WCRP/SPARC satellite data quality assessment, 15:30–17:00, Room 0.88 |
| | AS3.4/BG4.10/NH7.4 , Unprecedented Wildfires and Smoke Plumes – 2017 and Beyond (co-organized), 15:30–17:00, Room 0.94 |
| | AS3.12 , Radiative effects and global aerosol forcing estimates of natural and anthropogenic aerosols, 15:30–17:00, Room F1 |

AS3.28, Air pollution in Asia, **08:30–17:00, Room 0.11**

HS7.1/AS1.18/NP3.3, Precipitation measurement: techniques, processes and hydrological applications at the catchment scale (co-organized), **13:30–17:00, Room B**

Thursday, 12 April

TH1, 08:30–10:00

AS1.33, Dynamics and chemistry of the upper troposphere and stratosphere: observations and models, **08:30–17:00, Room 0.88**

AS3.21, Halogens in the Troposphere, **08:30–10:00, Room 0.11**

AS3.27, Mediterranean atmospheric composition, Aerosols & Air Pollution under changing climate (Vilhelm Bjerknes Medal Lecture), **08:30–12:00, Room F1**

AS3.30, Air Pollution Modelling, **08:30–12:00, Room 0.94**

IE2.1/NP3.4/AS1.8/CL2.08/CR1.9/OS1.20/ST4.7, Climate Variability Across Scales and Climate States (co-organized), **08:30–12:00, Room N2**

HS7.2/AS1.17/CL2.06/NH1.17/NP5.4, Precipitation Modelling: uncertainty, variability, assimilation, ensemble simulation and downscaling (co-organized), **08:30–15:00, Room B**

CR8.1/AS1.42, Clouds and precipitation in the Polar Regions: sources, processes and impacts (co-organized), **08:30–12:00, Room N1**

GI1.2/AS4.21/BG1.31/EMRP4.4/ERE5.6/HS11.11/NH8.8/OS4.11/SSS13.16, Geoscience processes related to Fukushima and Chernobyl nuclear accidents (co-organized), **08:30–12:00, Room 0.49**

NH6.1/AS5.21/CR7.3/GI2.17/HS11.33/SM3.12/SSS13.54, Application of remote sensing and Earth-observation data in natural hazard and risk studies (co-organized), **08:30–15:00, Room L6**

TH2, 10:30–12:00

AS1.33, Dynamics and chemistry of the upper troposphere and stratosphere: observations and models, **08:30–17:00, Room 0.88**

AS2.1/SSS13.2, Impact of Land-Surface-Atmosphere Feedbacks on Weather and Climate (co-organized), **10:30–12:00, Room 0.11**

AS3.27, Mediterranean atmospheric composition, Aerosols & Air Pollution under changing climate (Vilhelm Bjerknes Medal Lecture), **08:30–12:00, Room F1**

AS3.30, Air Pollution Modelling, **08:30–12:00, Room 0.94**

IE2.1/NP3.4/AS1.8/CL2.08/CR1.9/OS1.20/ST4.7, Climate Variability Across Scales and Climate States (co-organized), **08:30–12:00, Room N2**

ML32/AS, Vilhelm Bjerknes Medal Lecture by Pinhas Alpert (co-organized), **11:00–12:00, Room F1**

HS7.2/AS1.17/CL2.06/NH1.17/NP5.4, Precipitation Modelling: uncertainty, variability, assimilation, ensemble simulation and downscaling (co-organized), **08:30–15:00, Room B**

CR8.1/AS1.42, Clouds and precipitation in the Polar Regions: sources, processes and impacts (co-organized), **08:30–12:00, Room N1**

GI1.2/AS4.21/BG1.31/EMRP4.4/ERE5.6/HS11.11/NH8.8/OS4.11/SSS13.16, Geoscience processes related to Fukushima and Chernobyl nuclear accidents (co-organized), **08:30–12:00, Room 0.49**

NH6.1/AS5.21/CR7.3/GI2.17/HS11.33/SM3.12/SSS13.54, Application of remote sensing and Earth-observation data in natural hazard and risk studies (co-organized), **08:30–15:00, Room L6**

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| TH3, 13:30–15:00 | AS1.23 , Tropical Meteorology , 13:30–15:00, Room 0.94 |
| | AS1.33 , Dynamics and chemistry of the upper troposphere and stratosphere: observations and models, 08:30–17:00, Room 0.88 |
| | AS2.2/SSS13.3 , Air-Land Interactions (General Session) (co-sponsored by iLEAPS) (co-organized) (co-organized), 13:30–17:00, Room 0.11 |
| | AS3.1 , Aerosol Chemistry and Microphysics, 13:30–17:00, Room F1 |
| | IE2.8/CL4.02/AS1.7/BG1.40/NP2.6/OS1.22 , Constraining climate sensitivity from various lines of evidence (co-organized), 13:30–15:00, Room N2 |
| | HS7.2/AS1.17/CL2.06/NH1.17/NP5.4 , Precipitation Modelling: uncertainty, variability, assimilation, ensemble simulation and downscaling (co-organized), 08:30–15:00, Room B |
| | GMPV4.5/AS3.8 , Volcanic Gas Emissions (co-organized), 13:30–15:00, Room G1 |
| | CR1.5/AS4.6 , Atmosphere – Cryosphere interaction (co-organized), 13:30–15:00, Room N1 |
| | NH1.1/AS4.24/HS11.26 , Extreme meteorological and hydrological events induced by severe weather and climate change (co-organized), 13:30–17:00, Room L4/5 |
| NH6.1/AS5.21/CR7.3/GI2.17/HS11.33/SM3.12/SSS13.54 , Application of remote sensing and Earth-observation data in natural hazard and risk studies (co-organized), 08:30–15:00, Room L6 | |
| TH4, 15:30–17:00 | AS1.27/CL4.06 , The global monsoons in current, future and palaeoclimates and their role in extreme weather and climate events (co-organized), 15:30–17:00, Room 0.94 |
| | AS1.33 , Dynamics and chemistry of the upper troposphere and stratosphere: observations and models, 08:30–17:00, Room 0.88 |
| | AS2.2/SSS13.3 , Air-Land Interactions (General Session) (co-sponsored by iLEAPS) (co-organized) (co-organized), 13:30–17:00, Room 0.11 |
| | AS3.1 , Aerosol Chemistry and Microphysics, 13:30–17:00, Room F1 |
| | HS2.4.2/AS4.13 , Challenges understanding the links between hydrological variability and large-scale climate variations in a changing climate and environment (co-organized), 15:30–17:00, Room B |
| | NH1.1/AS4.24/HS11.26 , Extreme meteorological and hydrological events induced by severe weather and climate change (co-organized), 13:30–17:00, Room L4/5 |
| | SC2.9/AS6.2/CL6.04/CR8.8/OS6.2 , What are the key problems in Climate Science? (co-organized), 15:30–17:00, Room -2.91 |
| Friday, 13 April | |
| FR1, 08:30–10:00 | AS1.19 , Infrasound, acoustic-gravity waves, and atmospheric dynamics, 08:30–12:00, Room 0.49 |
| | AS1.40 , Aerosols, radiation and clouds over the southeast Atlantic, 08:30–10:00, Room 0.88 |
| | AS3.20 , Chemistry, climate, and weather feedbacks in the Earth system, 08:30–10:00, Room F1 |
| | AS4.1/BG1.14/OS3.3 , Air-sea exchanges: Impacts on Biogeochemistry and Climate (co-organized), 08:30–10:00, Room 0.11 |
| | AS5.1 , Earth surveillance and space-based monitoring of the environment: Integrated approaches, 08:30–10:00, Room 0.94 |
| | GMPV6.1/AS3.32/CL5.22/NH2.7 , Volcanic Ash – Generation, Transport, Impacts and Applications (co-organized), 08:30–12:00, Room G1 |

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| FR2 , 10:30–12:00 | AS1.19 , Infrasound, acoustic-gravity waves, and atmospheric dynamics, 08:30–12:00, Room 0.49 |
| | AS1.21 , Mountain Meteorology, 10:30–12:00, Room 0.88 |
| | AS1.41 , Clouds, Aerosols, Radiation and Precipitation (General Session), 10:30–17:00, Room F1 |
| | AS2.3/CR8.2/OS1.17/SSS13.1 , Boundary Layers in High Latitudes (co-organized), 10:30–12:00, Room 0.11 |
| | AS5.6/BG4.14/CL5.09/OS1.14 , Recent Developments in Numerical Earth System Modelling (co-organized), 10:30–12:00, Room 0.94 |
| | OS1.9/AS1.24/BG3.5/CL4.07 , The Indian Ocean's past, present, and future (co-organized), 10:30–12:00, Room 1.85 |
| | GMPV6.1/AS3.32/CL5.22/NH2.7 , Volcanic Ash – Generation, Transport, Impacts and Applications (co-organized), 08:30–12:00, Room G1 |
| | SSS8.4/AS4.18 , Soil pollution and reclamation as a geochemical problem (co-organized), 10:30–12:00, Room K2 |
| FRL , 12:15–13:15 | DM1/AS , Division meeting for Atmospheric Sciences (AS) (co-organized), 12:15–13:15, Room E2 |
| FR3 , 13:30–15:00 | AS1.6 , Subseasonal-to-Seasonal (S2S) Prediction: meteorology and impacts, 13:30–17:00, Room 0.49 |
| | AS1.41 , Clouds, Aerosols, Radiation and Precipitation (General Session), 10:30–17:00, Room F1 |
| | AS3.14/GI2.14 , MAX-DOAS and other scattered light DOAS systems: instruments, techniques and applications (co-organized) (co-organized), 13:30–15:00, Room 0.88 |
| | AS4.3/CL2.05 , The atmospheric water cycle: processes, dynamics and characteristics (co-organized), 13:30–15:00, Room 0.11 |
| | AS5.10/BG1.13/CL5.08/HS3.6/OS1.18 , High resolution weather and climate models on large supercomputers (co-organized), 13:30–17:00, Room 0.94 |
| | OS1.10/AS1.26 , Tropical & Subtropical Ocean Circulation, Equatorial to Mid-Latitude Air-Sea Interactions (co-organized), 13:30–17:00, Room 1.85 |
| | GMPV5.3/AS3.9/NH6.11 , Satellite-based quantification and modelling of volcanic gas, aerosol and ash emission: dispersal and chemical evolution (co-organized), 13:30–15:00, Room G1 |
| | GI2.7/AS4.16/CL5.23/EMRP4.8/HS11.13/PS4.7 , Cosmic rays across scales and disciplines: the new frontier in environmental research (co-organized), 13:30–17:00, Room L3 |
| FR4 , 15:30–17:00 | AS1.3/CL2.20 , Aviation Meteorology: Observations, Modeling, and Operations (co-organized), 15:30–17:00, Room 0.11 |
| | AS1.6 , Subseasonal-to-Seasonal (S2S) Prediction: meteorology and impacts, 13:30–17:00, Room 0.49 |
| | AS1.41 , Clouds, Aerosols, Radiation and Precipitation (General Session), 10:30–17:00, Room F1 |
| | AS5.3/GI2.11 , Advanced Spectroscopic Measurement Techniques for Atmospheric Science (co-organized) (co-organized), 15:30–17:00, Room 0.88 |
| | AS5.10/BG1.13/CL5.08/HS3.6/OS1.18 , High resolution weather and climate models on large supercomputers (co-organized), 13:30–17:00, Room 0.94 |
| | OS1.10/AS1.26 , Tropical & Subtropical Ocean Circulation, Equatorial to Mid-Latitude Air-Sea Interactions (co-organized), 13:30–17:00, Room 1.85 |
| | GI2.7/AS4.16/CL5.23/EMRP4.8/HS11.13/PS4.7 , Cosmic rays across scales and disciplines: the new frontier in environmental research |

(co-organized), **13:30–17:00, Room L3**

NP6.6/AS4.17/ST1.11, Turbulence, magnetic reconnection, shocks and particle acceleration: nonlinear processes in space, laboratory and astrophysical plasmas (co-organized), **15:30–17:00, Room L7**

NH5.4/AS4.29/CL3.10/HS11.32/OS2.11, Natural Hazards and climate change impacts in coastal areas (co-organized), **15:30–17:00, Room L4/5**

AS – Atmospheric Sciences (#EGU18AS) – PICO

Monday, 09 April

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| MO1 , 08:30–10:00 | AS3.5/CL5.19/GM10.2 , Aeolian dust: Initiator, Player, and Recorder of Environmental Change (co-organized), PICO spot 5a |
| MO2 , 10:30–12:00 | AS3.5/CL5.19/GM10.2 , Aeolian dust: Initiator, Player, and Recorder of Environmental Change (co-organized), PICO spot 5a |
| | NH1.5/AS4.28/HS11.29/SSS10.7 , Hazard Risk Management of Agroecosystems (co-organized), PICO spot 4 |
| | GI3.8/AS5.16/HS6.10/SSS13.14 , Thermal LWIR and MWIR, broadband - multi/hyperspectral, proximal and remote sensing: algorithms for environmental studies, retrieval of geophysical variables and monitoring infrastructures (co-organized), PICO spot 1 |
| MO3 , 13:30–15:00 | CL5.02/AS5.7/BG1.38/GD10.9/GI0.5/GM2.10/GMPV10.9/HS11.25/NH11.1/NP9.4/OS4.14/PS6.4/SM7.04/SSP1.12/SSS13.12/ST4.8/TS11.9 , The development of geoscientific modelling (co-organized), PICO spot 5a |
| MO4 , 15:30–17:00 | CL5.02/AS5.7/BG1.38/GD10.9/GI0.5/GM2.10/GMPV10.9/HS11.25/NH11.1/NP9.4/OS4.14/PS6.4/SM7.04/SSP1.12/SSS13.12/ST4.8/TS11.9 , The development of geoscientific modelling (co-organized), PICO spot 5a |

Tuesday, 10 April

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| TU1 , 08:30–10:00 | AS5.11 , Meteorology and Internet of Things (IoT), PICO spot 5a |
| TU2 , 10:30–12:00 | AS3.19 , Atmospheric composition variability and trends, PICO spot 5a |
| TU3 , 13:30–15:00 | AS3.19 , Atmospheric composition variability and trends, PICO spot 5a |

Wednesday, 11 April

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| WE1 , 08:30–10:00 | IE4.4/GM2.8/AS5.8/BG1.17/CL5.28/GD10.10/GMPV10.5/HS3.5/SSS13.77/TS11.12 , R and the benefit of low-cost solutions - democratic participation to face challenges in Earth science (co-organized), PICO spot 4 |
| WE2 , 10:30–12:00 | AS5.4/SM5.05 , International Monitoring System and On-site Verification for the CTBT, disaster risk reduction and Earth sciences (co-organized) (co-organized), PICO spot 5a |
| | IE4.4/GM2.8/AS5.8/BG1.17/CL5.28/GD10.10/GMPV10.5/HS3.5/SSS13.77/TS11.12 , R and the benefit of low-cost solutions - democratic participation to face challenges in Earth science (co-organized), PICO spot 4 |
| WE3 , 13:30–15:00 | AS5.4/SM5.05 , International Monitoring System and On-site Verification for the CTBT, disaster risk reduction and Earth sciences (co-organized) (co-organized), PICO spot 5a |
| | SSP3.6/AS4.19/GM3.11/GMPV6.2/HS9.11/NH2.3/OS2.7 , Bedform dynamics and morphodynamics: from pyroclastic eruptions to deep sea turbidites (co-organized), PICO spot 1 |
| WE4 , 15:30–17:00 | AS5.4/SM5.05 , International Monitoring System and On-site Verification for the CTBT, disaster risk reduction and Earth sciences (co-organized) (co-organized), PICO spot 5a |
| | SSP3.6/AS4.19/GM3.11/GMPV6.2/HS9.11/NH2.3/OS2.7 , Bedform dynamics and morphodynamics: from pyroclastic eruptions to deep sea turbidites (co-organized), PICO spot 1 |

Thursday, 12 April

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| TH1 , 08:30–10:00 | AS3.31 , Climate and atmospherically important trace gases and particles: metrology, quality control and measurement comparability, PICO spot 5a |
| TH2 , 10:30–12:00 | AS3.2 , Atmospheric Surface Science, PICO spot 5a |
| TH3 , 13:30–15:00 | AS1.22 , Multiscale Flow in complex terrain: The Perdigão Experiment, PICO spot 5a |
| | IE4.3/SSS13.73/AS5.19/BG1.20/ESSI1.8/HS11.4/NH11.13 , Geostatistical and statistical tools to perform the data fusion of large datasets in geo-engineering and environmental studies (co-organized), PICO spot 4 |
| TH4 , 15:30–17:00 | AS4.22/NH1.24 , Emergency response with atmospheric dispersion models (co-organized), PICO spot 5a |

Friday, 13 April

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| FR1 , 08:30–10:00 | HS7.9/AS4.4 , The atmospheric water cycle: feedbacks, management, land-use and climate change (co-organized), PICO spot 5b |
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AS – Atmospheric Sciences (#EGU18AS) – Posters

Monday, 09 April

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| MO5, 17:30–19:00 | AS1.2 , Forecasting the weather, Hall X5, X5.1–X5.38 |
| | AS1.16/CL2.04/HS11.6 , Precipitation: Measurement, Climatology, Remote Sensing, and Modeling (co-organized), Hall X5, X5.39–X5.86 |
| | AS1.37 , Atmospheric Convection, Hall X5, X5.87–X5.115 |
| | AS1.39 , Clouds, Circulation and Climate Sensitivity: Advances in Observations and Understanding in pursuit of a Grand Challenge, Hall X5, X5.116–X5.150 |
| | AS3.11 , Emission estimates of trace gases and aerosols constrained by space-based observations, Hall X5, X5.151–X5.165 |
| | AS3.16 , Satellite observations of tropospheric composition and pollution, analyses with models and applications, Hall X5, X5.166–X5.192 |
| | AS3.18 , Remote-Sensing of Atmospheric Carbon Dioxide and Methane, Hall X5, X5.193–X5.211 |
| | AS3.22 , Gas Phase Composition and Reactivity, Hall X5, X5.212–X5.225 |
| | IE4.1/NP4.3/AS5.13/CL5.18/ESSI2.3/GD10.6/HS3.7/NH11.14/SM7.03 , Big data and machine learning in geosciences (co-organized), Hall X3, X3.44–X3.75 |
| | IE4.5/AS5.14/BG1.22/CL5.26/EMRP4.35/ESSI2.12/GD10.7/GI1.7 , Information extraction from satellite observations using data-driven methods (co-organized), Hall X5, X5.226–X5.237 |
| | NP2.2/AS1.9/CL2.11 , Dynamical Extremes in Climate Sciences (co-organized), Hall X3, X3.1–X3.27 |
| | HS4.3/AS1.10/NH1.13 , Ensemble hydro-meteorological forecasting and predictive uncertainty estimation (co-organized), Hall A, A.83–A.105 |
| | OS1.5/AS1.29/CL2.14 , Climate variability of the Atlantic and Europe (co-organized), Hall X4, X4.88–X4.125 |
| | CL4.11/AS1.34 , Tropical-Extratropical Variability and Teleconnections: past, present and future (co-organized), Hall X5, X5.355–X5.383 |
| | NP6.1/AS2.5 , Turbulence in the Atmosphere and Ocean (co-organized), Hall X3, X3.76–X3.113 |
| | CL1.10/AS3.7 , Eurasian Aeolian Deposits: Understanding atmospheric variability and interactions (co-organized), Hall X5, X5.283–X5.299 |
| | GI0.2/AS4.23/BG1.27/CL5.15/EMRP4.36/ERE1.8/G6.2/GD1.2/GM12.5/GMPV10.10/HS11.1/NH9.24/NP9.2/SM1.11/SSP1.3/SSS13.70/TS1.8 , COST Actions in Geosciences: breakthrough ideas, research activities and results (co-organized), Hall X1, X1.1–X1.28 |
| | BG1.2/AS4.34 , Stable isotopes and novel tracers in biogeochemical and atmospheric research (co-organized), Hall A, A.287–A.310 |
| | GI2.1/AS5.2/BG1.29/CL5.27/NH1.19/PS5.4/ST4.9 , Atmospheric and Meteorological Instrumentation (co-organized), Hall X1, X1.54–X1.74 |
| HS3.4/AS5.12/BG1.42/CL5.16 , Challenges and advances in using High-Performance Computing for Terrestrial Systems Modelling (co-organized), Hall A, A.72–A.82 | |
| NH9.12/AS5.17/CL5.30/ESSI1.9/GI0.4/GMPV6.12/HS11.44/SM3.15/SSS13.66 , Methods and Tools for Natural Risk Management and Communications – Innovative ways of delivering information to end users and sharing data among the scientific community (co-organized), Hall X1, X1.216–X1.233 | |

Tuesday, 10 April

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| TU5, 17:30–19:00 | AS1.1 , Numerical weather prediction, data assimilation and ensemble forecasting, Hall X5, X5.1–X5.41 |
| | AS1.28/CL3.02 , Mid-latitude Cyclones and Storms: Diagnostics of Observed and Future Trends, and related Impacts (co-organized), Hall X5, X5.42–X5.60 |
| | AS1.31/ST3.7 , Joint Session of the MLT and the VarSITI-ROSMIC program (co-organized), Hall X5, X5.61–X5.85 |
| | AS1.35 , Dynamical coupling between the stratosphere and the troposphere, Hall X5, X5.86–X5.99 |
| | AS3.13 , Remote Sensing of Clouds and Aerosols: Techniques and Applications, Hall X5, X5.125–X5.164 |
| | AS3.17/BG1.28 , Global Carbon Observations and their Use for Research and Decision-Making (co-organized), Hall X5, X5.165–X5.190 |
| | AS3.23 , Polar Ozone and Polar Stratospheric Clouds, Hall X5, X5.191–X5.205 |
| | AS3.29 , Urban air quality, Hall X5, X5.206–X5.241 |
| | AS4.9/CL2.12 , Atmospheric composition, weather and climate in Sub-Saharan Africa (co-organized), Hall X5, X5.242–X5.262 |
| | IE2.7/AS3.6/BG1.10/CL2.24/CR8.7 , Atmosphere – Cryosphere interaction with focus on transport, deposition and effects of dust, black carbon, and other aerosols (co-organized), Hall X5, X5.100–X5.124 |
| | NH1.2/AS1.14/SSS13.43 , Atmospheric Electricity, Thunderstorms, Lightning and their effects (co-organized), Hall X1, X1.91–X1.134 |
| | NP2.1/AS1.25/CL2.10/OS1.13 , ENSO: Dynamics, Predictability and Modelling (co-organized), Hall X4, X4.319–X4.339 |
| | OS5.1/AS2.4/CL2.25 , Surface Waves and Wave-Coupled Effects in Lower Atmosphere and Upper Ocean (co-organized), Hall X4, X4.119–X4.139 |
| | GI2.6/AS4.20/EMRP4.7/NH11.11 , Geoscience applications of environmental radioactivity (co-organized), Hall X4, X4.302–X4.318 |
| | NH1.8/AS4.26 , Extreme heat events: processes, impacts and adaptation (co-organized), Hall X1, X1.154–X1.167 |
| HS4.1/AS4.27/GM8.7/NH1.11 , Flash floods and associated hydro-geomorphic processes: observation, modelling and warning (co-organized), Hall A, A.135–A.157 | |
| NH9.9/AS5.20/GI1.9/HS11.41/SSS13.64 , Monitoring and modelling of dangerous phenomena: innovative, low-cost techniques, tools and constraint of engineering-geological models for hazard evaluation and risk mitigation (co-organized), Hall X1, X1.276–X1.296 | |

Wednesday, 11 April

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| WE5, 17:30–19:00 | AS1.30 , Dynamical Meteorology (General Session), Hall X5, X5.1–X5.24 |
| | AS1.32 , Water vapour in the upper troposphere and middle atmosphere: a WCRP/SPARC satellite data quality assessment, Hall X5, X5.25–X5.39 |
| | AS3.3 , Atmospheric Ice Particles, Hall X5, X5.40–X5.62 |
| | AS3.4/BG4.10/NH7.4 , Unprecedented Wildfires and Smoke Plumes – 2017 and Beyond (co-organized), Hall X5, X5.63–X5.83 |
| | AS3.12 , Radiative effects and global aerosol forcing estimates of natural and anthropogenic aerosols, Hall X5, X5.104–X5.119 |
| | AS3.15 , First Results of the Copernicus Sentinel-5 Precursor Mission, Hall X5, X5.120–X5.139 |

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| | AS3.24/CL2.07 , Advances in estimating and attributing long-term ozone and temperature trends in the middle atmosphere (co-organized), Hall X5, X5.140–X5.157 |
| | AS3.26 , Atmospheric transport of trace species and aerosols: Modeling and observations, Hall X5, X5.158–X5.179 |
| | AS3.28 , Air pollution in Asia, Hall X5, X5.180–X5.219 |
| | IE2.3/AS3.10/CL4.22/GMPV6.4/NH2.2 , Characterizing, understanding and predicting the radiative effects and the climatic impacts of major volcanic eruptions (co-organized), Hall X5, X5.84–X5.103 |
| | NP5.3/AS1.5/HS4.8 , Advances in statistical post-processing for deterministic and ensemble forecasts (co-organized), Hall X4, X4.369–X4.388 |
| | OS5.2/AS1.20 , Internal Gravity Waves (co-organized), Hall X4, X4.54–X4.81 |
| | CL3.03/AS4.12/BG4.13/HS11.8/NH11.15/NP5.5/SSS13.13 , Earth System Prediction and Application (co-organized), Hall X5, X5.302–X5.316 |
| | NH1.6/AS4.14/HS11.30 , Coupled atmosphere-hydrological modeling for improved hydro-meteorological predictions (co-organized), Hall X1, X1.72–X1.85 |
| | ST4.5/AS4.15/CL2.02 , Solar Total and Spectral Irradiance Recent Observations and Results, Links with Models and Possible Consequences for Climate (co-organized), Hall X4, X4.133–X4.146 |
| | GI2.9/AS5.22/NH6.14/PS5.6 , Calibration/Validation of Earth Satellite Measurements (co-organized), Hall X4, X4.314–X4.331 |

Thursday, 12 April

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| TH5 , 17:30–19:00 | AS1.23 , Tropical Meteorology , Hall X5, X5.1–X5.25 |
| | AS1.27/CL4.06 , The global monsoons in current, future and palaeoclimates and their role in extreme weather and climate events (co-organized), Hall X5, X5.26–X5.52 |
| | AS1.33 , Dynamics and chemistry of the upper troposphere and stratosphere: observations and models, Hall X5, X5.53–X5.90 |
| | AS2.1/SSS13.2 , Impact of Land-Surface-Atmosphere Feedbacks on Weather and Climate (co-organized), Hall X5, X5.91–X5.112 |
| | AS2.2/SSS13.3 , Air-Land Interactions (General Session) (co-sponsored by iLEAPS) (co-organized) (co-organized), Hall X5, X5.113–X5.142 |
| | AS3.1 , Aerosol Chemistry and Microphysics, Hall X5, X5.143–X5.174 |
| | AS3.21 , Halogens in the Troposphere, Hall X5, X5.175–X5.193 |
| | AS3.27 , Mediterranean atmospheric composition, Aerosols & Air Pollution under changing climate (Vilhelm Bjerknes Medal Lecture), Hall X5, X5.194–X5.213 |
| | AS3.30 , Air Pollution Modelling, Hall X5, X5.214–X5.237 |
| | IE2.8/CL4.02/AS1.7/BG1.40/NP2.6/OS1.22 , Constraining climate sensitivity from various lines of evidence (co-organized), Hall X5, X5.373–X5.395 |
| | IE2.1/NP3.4/AS1.8/CL2.08/CR1.9/OS1.20/ST4.7 , Climate Variability Across Scales and Climate States (co-organized), Hall X4, X4.349–X4.372 |
| | GI2.2/AS1.4/NH1.20 , Weather and environmental observations and short term forecasting to increase safety and airport capacity (co-organized), Hall X1, X1.67–X1.74 |

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| | HS7.1/AS1.18/NP3.3 , Precipitation measurement: techniques, processes and hydrological applications at the catchment scale (co-organized), Hall A, A.194–A.227 |
| | CR8.1/AS1.42 , Clouds and precipitation in the Polar Regions: sources, processes and impacts (co-organized), Hall X5, X5.457–X5.474 |
| | GMPV4.5/AS3.8 , Volcanic Gas Emissions (co-organized), Hall X2, X2.320–X2.340 |
| | CR1.5/AS4.6 , Atmosphere – Cryosphere interaction (co-organized), Hall X5, X5.429–X5.439 |
| | OS4.10/AS4.8/ERE1.7/GI2.13/NH11.7 , Benefits and Detriments of Geoengineering in the Ocean-Atmosphere System (co-organized), Hall X4, X4.67–X4.72 |
| | HS2.4.2/AS4.13 , Challenges understanding the links between hydrological variability and large-scale climate variations in a changing climate and environment (co-organized), Hall A, A.99–A.112 |
| | GI1.2/AS4.21/BG1.31/EMRP4.4/ERE5.6/HS11.11/NH8.8/OS4.11/SSS13.16 , Geoscience processes related to Fukushima and Chernobyl nuclear accidents (co-organized), Hall X1, X1.41–X1.58 |
| | NH1.1/AS4.24/HS11.26 , Extreme meteorological and hydrological events induced by severe weather and climate change (co-organized), Hall X1, X1.141–X1.161 |
| | GI1.3/AS5.15/BG1.30/CL5.10/EMRP4.5/ESSI1.6/HS11.12/SM5.03 , Environmental sensor network (co-organized), Hall X1, X1.59–X1.66 |
| | GI2.5/AS5.18/EMRP4.13/NH6.13 , Unmanned aerial vehicle (UAV) as a new, emerging instrument in Geosciences (co-organized), Hall X1, X1.75–X1.92 |
| | NH6.1/AS5.21/CR7.3/GI2.17/HS11.33/SM3.12/SSS13.54 , Application of remote sensing and Earth-observation data in natural hazard and risk studies (co-organized), Hall X1, X1.236–X1.270 |
| Friday, 13 April | |
| FR1, 08:30–10:00 | AS3.14/GI2.14 , MAX-DOAS and other scattered light DOAS systems: instruments, techniques and applications (co-organized) (co-organized), Hall X5, X5.172–X5.196 |
| | OS1.9/AS1.24/BG3.5/CL4.07 , The Indian Ocean's past, present, and future (co-organized), Hall X4, X4.55–X4.69 |
| | OS1.10/AS1.26 , Tropical & Subtropical Ocean Circulation, Equatorial to Mid-Latitude Air-Sea Interactions (co-organized), Hall X4, X4.70–X4.87 |
| FR3, 13:30–15:00 | HS7.2/AS1.17/CL2.06/NH1.17/NP5.4 , Precipitation Modelling: uncertainty, variability, assimilation, ensemble simulation and downscaling (co-organized), Hall A, A.89–A.129 |
| FR5, 17:30–19:00 | AS1.3/CL2.20 , Aviation Meteorology: Observations, Modeling, and Operations (co-organized), Hall X5, X5.1–X5.13 |
| | AS1.6 , Subseasonal-to-Seasonal (S2S) Prediction: meteorology and impacts, Hall X5, X5.14–X5.39 |
| | AS1.19 , Infrasound, acoustic-gravity waves, and atmospheric dynamics, Hall X5, X5.40–X5.67 |
| | AS1.21 , Mountain Meteorology, Hall X5, X5.68–X5.92 |
| | AS1.40 , Aerosols, radiation and clouds over the southeast Atlantic, Hall X5, X5.93–X5.116 |

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| AS1.41 , Clouds, Aerosols, Radiation and Precipitation (General Session), Hall X5, X5.117–X5.156 |
| AS2.3/CR8.2/OS1.17/SSS13.1 , Boundary Layers in High Latitudes (co-organized), Hall X5, X5.157–X5.171 |
| AS3.20 , Chemistry, climate, and weather feedbacks in the Earth system, Hall X5, X5.197–X5.222 |
| AS4.1/BG1.14/OS3.3 , Air-sea exchanges: Impacts on Biogeochemistry and Climate (co-organized), Hall X5, X5.223–X5.235 |
| AS4.3/CL2.05 , The atmospheric water cycle: processes, dynamics and characteristics (co-organized), Hall X5, X5.236–X5.254 |
| AS5.1 , Earth surveillance and space-based monitoring of the environment: Integrated approaches, Hall X5, X5.255–X5.282 |
| AS5.3/GI2.11 , Advanced Spectroscopic Measurement Techniques for Atmospheric Science (co-organized) (co-organized), Hall X5, X5.283–X5.300 |
| AS5.6/BG4.14/CL5.09/OS1.14 , Recent Developments in Numerical Earth System Modelling (co-organized), Hall X5, X5.301–X5.320 |
| AS5.10/BG1.13/CL5.08/HS3.6/OS1.18 , High resolution weather and climate models on large supercomputers (co-organized), Hall X5, X5.321–X5.344 |
| GMPV5.3/AS3.9/NH6.11 , Satellite-based quantification and modelling of volcanic gas, aerosol and ash emission: dispersal and chemical evolution (co-organized), Hall X2, X2.378–X2.387 |
| GMPV6.1/AS3.32/CL5.22/NH2.7 , Volcanic Ash – Generation, Transport, Impacts and Applications (co-organized), Hall X2, X2.396–X2.407 |
| GI2.7/AS4.16/CL5.23/EMRP4.8/HS11.13/PS4.7 , Cosmic rays across scales and disciplines: the new frontier in environmental research (co-organized), Hall X4, X4.242–X4.259 |
| NP6.6/AS4.17/ST1.11 , Turbulence, magnetic reconnection, shocks and particle acceleration: nonlinear processes in space, laboratory and astrophysical plasmas (co-organized), Hall X4, X4.286–X4.295 |
| SSS8.4/AS4.18 , Soil pollution and reclamation as a geochemical problem (co-organized), Hall X3, X3.82–X3.108 |
| NH5.4/AS4.29/CL3.10/HS11.32/OS2.11 , Natural Hazards and climate change impacts in coastal areas (co-organized), Hall X1, X1.145–X1.164 |