GMPV – Geochemistry, Mineralogy, Petrology & Volcanology (#EGU18GMPV) – Orals

Monday, 09 April	
MO1, 08:30–10:00	**GMPV3.1/TS3.9**, Progress in Metamorphic Geology: Multi-scale Model Testing from Minerals to Tectonic Plates (co-organized), **08:30–12:00**, **Room -2.21**
	GMPV5.2/GI3.9/SM6.04, Geophysical imaging of volcanoes (co-organized), **08:30–12:00**, **Room G1**
	GD5.1/EMRP4.19/GMPV2.4/SM4.18/TS9.4, Subduction dynamics from surface to deep mantle (co-organized), **08:30–17:00**, **Room D3**
	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	**GMPV3.1/TS3.9**, Progress in Metamorphic Geology: Multi-scale Model Testing from Minerals to Tectonic Plates (co-organized), **08:30–12:00**, **Room -2.21**
	GMPV5.2/GI3.9/SM6.04, Geophysical imaging of volcanoes (co-organized), **08:30–12:00**, **Room G1**
	GD5.1/EMRP4.19/GMPV2.4/SM4.18/TS9.4, Subduction dynamics from surface to deep mantle (co-organized), **08:30–17:00**, **Room D3**
	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**
	GDB2, Hands on or hands off?, **10:30–12:00**, **Room E1**
MOL, 12:15–13:15	**PCN2**, EGU Plenary, **12:15–13:15**, **Room E1**
MO3, 13:30–15:00	**GMPV2.3/GD3.4/SM4.20**, Evolution of the Earth's mantle: a petrological, geochemical and isotopic perspective on lithospheric mantle xenoliths, orogenic peridotites and deep-seated mantle domains (co-organized), **13:30–17:00**, **Room G1**
	GMPV3.2/GD2.5/TS2.7, Shaping the lithosphere: fluid-rock interaction, deformation and volatiles cycle (co-organized), **13:30–17:00**, **Room -2.21**
	GD5.1/EMRP4.19/GMPV2.4/SM4.18/TS9.4, Subduction dynamics from surface to deep mantle (co-organized), **08:30–17:00**, **Room D3**
	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**
	US2, The future of Earth and Planetary Observations from Space, **13:30–17:00**, **Room E1**
MO4, 15:30–17:00	**GMPV2.3/GD3.4/SM4.20**, Evolution of the Earth's mantle: a petrological, geochemical and isotopic perspective on lithospheric mantle xenoliths, orogenic peridotites and deep-seated mantle domains (co-organized), **13:30–17:00**, **Room G1**
	GMPV3.2/GD2.5/TS2.7, Shaping the lithosphere: fluid-rock interaction, deformation and volatiles cycle (co-organized), **13:30–17:00**, **Room -2.21**
	GD5.1/EMRP4.19/GMPV2.4/SM4.18/TS9.4, Subduction dynamics from surface to deep mantle (co-organized), **08:30–17:00**, **Room D3**
	NH9.11/GMPV6.11/HS11.43/SM3.19/SSS13.63, Risk Management and risk hedging with examples from natural catastrophic events (co-organized), **15:30–17:00**, **Room L8**

	GI1.4/GMPV10.1/NH11.9/SM5.04, New frontiers of multiscale monitoring, analysis and modeling of environmental systems (co-organized), **15:30–17:00**, **Room 0.49**
	GM2.3/CR2.6/GI3.15/GMPV10.3/HS11.18/NH4.6/SM1.04/SSS13.22, Environmental Seismology: Deciphering Earth's surface processes with seismic methods (co-organized), **15:30–17:00**, **Room 0.31**
	US2, The future of Earth and Planetary Observations from Space, **13:30–17:00**, **Room E1**
Tuesday, 10 April	
TU1, 08:30–10:00	**GMPV3.3/BG5.4/TS10.5**, From hydrothermal systems to mud volcanoes: structure, evolution and monitoring of active and fossile piercements (co-organized), **08:30–10:00**, **Room -2.21**
	GMPV4.1/G3.7/GM7.7/NH2.8/TS10.3, Volcanic processes: Tectonics, Deformation, Geodesy (co-organized), **08:30–15:00**, **Room D3**
	NH9.6/GMPV6.8/HS11.38/SM3.20, Resilience and vulnerability assessments in natural hazards and risk analysis (co-organized), **08:30–10:00**, **Room L7**
	TS9.2/GD5.7/GMPV8.4/SM1.09, Subduction interface properties and large subduction earthquakes: integrating geological and geophysical observations, laboratory results, and numerical modeling (co-sponsored by JpGU) (co-organized), **08:30–12:00**, **Room D1**
	TS6.1/GD6.2/GM4.7/GMPV8.6/SSP3.17, Evolution and architecture of rifts and passive margins: from mantle dynamics to surface processes (co-organized), **08:30–17:00**, **Room D2**
TU1b, 09:00–10:00	**US1**, Past achievements and future challenges for the Geosciences (co-sponsored by AGU), **09:00–12:00**, **Room E1**
TU2, 10:30–12:00	**GMPV3.4/EMRP4.14/TS2.5**, Pores, cracks, fluids and permeability in rocks and magmas (co-organized), **10:30–12:00**, **Room -2.21**
	GMPV4.1/G3.7/GM7.7/NH2.8/TS10.3, Volcanic processes: Tectonics, Deformation, Geodesy (co-organized), **08:30–15:00**, **Room D3**
	GD2.3/EMRP4.16/GMPV2.5/SM4.10, Integrated geophysical-petrological modelling of the crust and upper mantle at multiple scales (co-organized), **10:30–12:00**, **Room -2.47**
	TS9.2/GD5.7/GMPV8.4/SM1.09, Subduction interface properties and large subduction earthquakes: integrating geological and geophysical observations, laboratory results, and numerical modeling (co-sponsored by JpGU) (co-organized), **08:30–12:00**, **Room D1**
	TS6.1/GD6.2/GM4.7/GMPV8.6/SSP3.17, Evolution and architecture of rifts and passive margins: from mantle dynamics to surface processes (co-organized), **08:30–17:00**, **Room D2**
	US1, Past achievements and future challenges for the Geosciences (co-sponsored by AGU), **09:00–12:00**, **Room E1**
TU3, 13:30–15:00	**GMPV4.1/G3.7/GM7.7/NH2.8/TS10.3**, Volcanic processes: Tectonics, Deformation, Geodesy (co-organized), **08:30–15:00**, **Room D3**
	GMPV6.6/ERE3.6/NH2.10, Volcanic resources (co-organized), **13:30–15:00**, **Room -2.32**
	IE3.3/GM2.2/CR2.5/GI3.13/GMPV10.4/HS6.9/NH6.10/SSS13.21, High Resolution Topography in the Geosciences: Methods and Applications (co-sponsored by JpGU) (co-organized), **13:30–17:00**, **Room N2**
	EMRP3.4/GD9.6/GMPV7.5/TS11.10, Paleomagnetism and magnetic fabric: Recent advances and links to tectonics and deep Earth dynamics (co-organized), **13:30–17:00**, **Room K1**

	GD6.1/GMPV8.2/TS6.6, Models and Observations of Vertical Motion (Move-On) related to rifting, and post-breakup evolution of passive margins: Linking observations to theoretical predictions in geodynamics (co-organized), **13:30–17:00**, **Room -2.21**
	TS6.1/GD6.2/GM4.7/GMPV8.6/SSP3.17, Evolution and architecture of rifts and passive margins: from mantle dynamics to surface processes (co-organized), **08:30–17:00**, **Room D2**
	TS3.1/GMPV8.10, Strain localization from the grain- to the plate-scale: rheology, mechanics and anisotropy (including tephan Mueller Medal Lecture) (co-organized), **13:30–17:00**, **Room D1**
	GDB4, Low-risk geo-engineering: are techniques available now?, **13:30–15:00**, **Room E1**
TU4, 15:30–17:00	**GMPV4.3**, Storage, activation and transport processes within magmatic systems (co-sponsored by JpGU), **15:30–17:00**, **Room -2.32**
	IE3.3/GM2.2/CR2.5/GI3.13/GMPV10.4/HS6.9/NH6.10/SSS13.21, High Resolution Topography in the Geosciences: Methods and Applications (co-sponsored by JpGU) (co-organized), **13:30–17:00**, **Room N2**
	EMRP3.4/GD9.6/GMPV7.5/TS11.10, Paleomagnetism and magnetic fabric: Recent advances and links to tectonics and deep Earth dynamics (co-organized), **13:30–17:00**, **Room K1**
	GD2.1/GMPV8.1/SM4.07, Geodynamics of continental crust and upper mantle, and the nature of mantle discontinuities (co-organized), **15:30–17:00**, **Room D3**
	GD6.1/GMPV8.2/TS6.6, Models and Observations of Vertical Motion (Move-On) related to rifting, and post-breakup evolution of passive margins: Linking observations to theoretical predictions in geodynamics (co-organized), **13:30–17:00**, **Room -2.21**
	TS6.1/GD6.2/GM4.7/GMPV8.6/SSP3.17, Evolution and architecture of rifts and passive margins: from mantle dynamics to surface processes (co-organized), **08:30–17:00**, **Room D2**
	TS3.1/GMPV8.10, Strain localization from the grain- to the plate-scale: rheology, mechanics and anisotropy (including tephan Mueller Medal Lecture) (co-organized), **13:30–17:00**, **Room D1**
TU6a, 19:00–20:30	**GDB3**, The Early Career Scientists' Great Debate: Should early career scientists use time developing transferrable skills?, **19:00–20:30**, **Room E1**

Wednesday, 11 April

WE1, 08:30–10:00	**GMPV5.1/NH2.11/SM6.03**, Volcano monitoring with instrument networks (co-organized), **08:30–15:00**, **Room D3**
	IE2.2/GMPV1.4/BG1.11/CL4.29/ERE1.6/GD3.6/PS1.1/SSP1.10, Terrestrial Planet Evolution: deep carbon cycle and interior/exterior coupling (co-organized), **08:30–10:00**, **Room N2**
	EMRP1.3/GMPV3.5/NH3.17/SM2.04/TS2.4, Rock Physics and geomechanical characterisation of rocks from the micro to macroscale: fabric, fractures and fluids (co-organized), **08:30–12:00**, **Room 0.96**
	TS2.2/GMPV3.8, The timing of faulting, fracturing and fluid-flow in the upper crust (co-organized), **08:30–10:00**, **Room K1**
	NH9.10/GMPV6.10/HS11.42/SM3.16/SSS13.62, Global and continental scale risk assessment for natural hazards: methods and practice (including Plinius Medal Lecture) (including NH Division Outstanding ECS Lecture) (co-organized), **08:30–12:00**, **Room L6**
	GD7.1/GMPV8.7/SM4.15/TS9.12, The structure and evolution of the oceanic lithosphere: interplay between magmatic, tectonic and hydrothermal processes at spreading ridges (co-organized), **08:30–12:00**, **Room -2.47**

	US4, Fifty years of International Ocean Drilling, **08:30–12:00**, **Room E1**
WE2, 10:30–12:00	**GMPV5.1/NH2.11/SM6.03**, Volcano monitoring with instrument networks (co-organized), **08:30–15:00**, **Room D3**
	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**
	EMRP1.3/GMPV3.5/NH3.17/SM2.04/TS2.4, Rock Physics and geomechanical characterisation of rocks from the micro to macroscale: fabric, fractures and fluids (co-organized), **08:30–12:00**, **Room 0.96**
	NH9.10/GMPV6.10/HS11.42/SM3.16/SSS13.62, Global and continental scale risk assessment for natural hazards: methods and practice (including Plinius Medal Lecture) (including NH Division Outstanding ECS Lecture) (co-organized), **08:30–12:00**, **Room L6**
	GD7.1/GMPV8.7/SM4.15/TS9.12, The structure and evolution of the oceanic lithosphere: interplay between magmatic, tectonic and hydrothermal processes at spreading ridges (co-organized), **08:30–12:00**, **Room -2.47**
	US4, Fifty years of International Ocean Drilling, **08:30–12:00**, **Room E1**
WEL, 12:15–13:15	**DM12/GMPV**, Division meeting for Geochemistry, Mineralogy, Petrology & Volcanology (GMPV) (co-organized), **12:15–13:15**, **Room D3**
WE3, 13:30–15:00	**GMPV5.1/NH2.11/SM6.03**, Volcano monitoring with instrument networks (co-organized), **08:30–15:00**, **Room D3**
	IE2.6/SSP2.2/CL4.23/GMPV1.9, Past and Future Mass Extinctions, Climate and Environmental Change: where do we stand? (co-organized), **13:30–17:00**, **Room N2**
WE4, 15:30–17:00	**GMPV1.1**, Open Session on Geochemistry, Mineralogy, Petrology and Volcanology (including Arne Richter Award Lecture and Robert Wilhelm Bunsen Medal Lecture)), **15:30–16:00**, **Room D3**
	IE2.6/SSP2.2/CL4.23/GMPV1.9, Past and Future Mass Extinctions, Climate and Environmental Change: where do we stand? (co-organized), **13:30–17:00**, **Room N2**
	ML4/GMPV, Arne Richter Award for Outstanding ECS Lecture by Anja Schmidt (co-organized), **15:30–16:00**, **Room D3**
	ML27/GMPV, Robert Wilhelm Bunsen Medal Lecture by Andrew Putnis (co-organized), **16:00–17:00**, **Room D3**
	TS7.11/GMPV9.1/SSP2.15, The evolution of the Carpathians - Dinarides - Pannonian orogenic and sedimentary basins system (co-organized), **15:30–17:00**, **Room D2**
WE5, 17:30–19:00	**PCN3**, EGU Award Ceremony, **17:30–20:00**, **Room E1**
WE6, 19:00–20:00	**PCN3**, EGU Award Ceremony, **17:30–20:00**, **Room E1**

Thursday, 12 April

TH1, 08:30–10:00	**GMPV2.1**, Trace elements and isotopes: the markers of geological change, **08:30–10:00**, **Room -2.47**
	GMPV4.4/NH2.6, Magma ascent, degassing and eruptive dynamics: linking experiments, models and observations (co-organized), **08:30–12:00**, **Room G1**
	GD9.1/EMRP4.22/GMPV8.9/TS3.7/TS9, Long-term rheology and heat budget of deforming and reacting rocks: from laboratory to geological scales (including GD Divsion Outstanding ECS Lecture) (co-organized), **08:30–17:00**, **Room -2.21**

	TS7.7/GD8.8/GMPV9.5/SM2.14, Dynamics and Structures of the Tethyan realm: Collisions and back-arcs from the Mediterranean to the Himalayas (co-organized), **08:30–12:00**, **Room D2**
	US3, Cassini and future perspectives for the exploration of the outer solar system, **08:30–12:00**, **Room E1**
TH2, 10:30–12:00	**GMPV2.2/PS1.10**, High-precision geochronology of geological and planetary processes (co-organized), **10:30–12:00**, **Room -2.47**
	GMPV4.4/NH2.6, Magma ascent, degassing and eruptive dynamics: linking experiments, models and observations (co-organized), **08:30–12:00**, **Room G1**
	GD9.1/EMRP4.22/GMPV8.9/TS3.7/TS9, Long-term rheology and heat budget of deforming and reacting rocks: from laboratory to geological scales (including GD Divsion Outstanding ECS Lecture) (co-organized), **08:30–17:00**, **Room -2.21**
	TS7.7/GD8.8/GMPV9.5/SM2.14, Dynamics and Structures of the Tethyan realm: Collisions and back-arcs from the Mediterranean to the Himalayas (co-organized), **08:30–12:00**, **Room D2**
	US3, Cassini and future perspectives for the exploration of the outer solar system, **08:30–12:00**, **Room E1**
TH3, 13:30–15:00	**GMPV1.5/TS3.5**, Microstructures as an interpretative tool in igneous and metamorphic petrology (co-organized), **13:30–17:00**, **Room -2.47**
	GMPV4.5/AS3.8, Volcanic Gas Emissions (co-organized), **13:30–15:00**, **Room G1**
	SSP3.12/BG6.2/GMPV3.10/HS11.47, Sedimentary and diagenetic minerals: nucleation, growth mechanisms, and reactions that build Earth's geological archive (co-organized), **13:30–17:00**, **Room 0.31**
	GD9.1/EMRP4.22/GMPV8.9/TS3.7/TS9, Long-term rheology and heat budget of deforming and reacting rocks: from laboratory to geological scales (including GD Divsion Outstanding ECS Lecture) (co-organized), **08:30–17:00**, **Room -2.21**
	TS7.10/GMPV9.3/SM2.12/SSP2.17, Tectonics and Geodynamics of the Mediterranean (co-organized), **13:30–17:00**, **Room D2**
	GDB5, Natural versus anthropogenic threats for life on Earth, **13:30–15:00**, **Room E1**
TH4, 15:30–17:00	**GMPV1.5/TS3.5**, Microstructures as an interpretative tool in igneous and metamorphic petrology (co-organized), **13:30–17:00**, **Room -2.47**
	GMPV4.6/NH2.5, Numerical simulations of volcanic and magmatic phenomena: model development, validation and application (co-organized), **15:30–17:00**, **Room G1**
	SSP3.12/BG6.2/GMPV3.10/HS11.47, Sedimentary and diagenetic minerals: nucleation, growth mechanisms, and reactions that build Earth's geological archive (co-organized), **13:30–17:00**, **Room 0.31**
	GD9.1/EMRP4.22/GMPV8.9/TS3.7/TS9, Long-term rheology and heat budget of deforming and reacting rocks: from laboratory to geological scales (including GD Divsion Outstanding ECS Lecture) (co-organized), **08:30–17:00**, **Room -2.21**
	TS7.10/GMPV9.3/SM2.12/SSP2.17, Tectonics and Geodynamics of the Mediterranean (co-organized), **13:30–17:00**, **Room D2**
Friday, 13 April	
FR1, 08:30–10:00	**GMPV2.7/PS1.12**, Accretion, Differentiation and Volatiles: constraints on terrestrial planets (co-organized), **08:30–10:00**, **Room -2.47**
	GMPV6.1/AS3.32/CL5.22/NH2.7, Volcanic Ash – Generation, Transport, Impacts and Applications (co-organized), **08:30–12:00**, **Room G1**

	SSP3.10/BG6.3/GMPV3.6, Formation and diagenetic pathways of carbonate archives: From ACC to dolomite (co-organized), **08:30–12:00**, **Room 0.31**
	GD3.1/GMPV7.3/PS1.2/SM4.08, Dynamics, structure, evolution and cyclicity of the plate-mantle system in the Earth and planetary bodies (including Augustus Love Medal Lecture) (co-organized), **08:30–15:00**, **Room D3**
	US5, Scientific research in a changing European Union: where we stand and what we aim for?, **08:30–10:00**, **Room E1**
FR2, 10:30–12:00	**GMPV2.10/TS3.10**, Understanding granites – state of the art and ways ahead (co-organized), **10:30–12:00**, **Room -2.47**
	GMPV6.1/AS3.32/CL5.22/NH2.7, Volcanic Ash – Generation, Transport, Impacts and Applications (co-organized), **08:30–12:00**, **Room G1**
	SSP3.10/BG6.3/GMPV3.6, Formation and diagenetic pathways of carbonate archives: From ACC to dolomite (co-organized), **08:30–12:00**, **Room 0.31**
	GD3.1/GMPV7.3/PS1.2/SM4.08, Dynamics, structure, evolution and cyclicity of the plate-mantle system in the Earth and planetary bodies (including Augustus Love Medal Lecture) (co-organized), **08:30–15:00**, **Room D3**
FR3, 13:30–15:00	**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**
	IE1.5/BG1.41/GMPV6.13/SSS13.71, Medical Geology: an interdisciplinary field of science for the benefit of the society (co-organized), **13:30–15:00**, **Room N2**
	GD3.1/GMPV7.3/PS1.2/SM4.08, Dynamics, structure, evolution and cyclicity of the plate-mantle system in the Earth and planetary bodies (including Augustus Love Medal Lecture) (co-organized), **08:30–15:00**, **Room D3**
	PS1.9/GMPV10.8/TS11.6, 2D/3D digital geological mapping and modelling: advanced techniques and case studies (co-organized), **13:30–17:00**, **Room M2**
FR4, 15:30–17:00	**GMPV5.4**, UV, visible and IR imaging of volcanic phenomena, **15:30–17:00**, **Room D2**
	GD3.2/GMPV7.2/SM4.19/TS9.6, Causes and consequences of mantle upwellings (co-organized), **15:30–17:00**, **Room D3**
	PS1.9/GMPV10.8/TS11.6, 2D/3D digital geological mapping and modelling: advanced techniques and case studies (co-organized), **13:30–17:00**, **Room M2**

GMPV – Geochemistry, Mineralogy, Petrology & Volcanology (#EGU18GMPV) – PICO

Monday, 09 April	
MO3, 13:30–15:00	**GD4.1/EMRP4.17/GMPV7.1/SM4.09**, Earth's core structure, dynamics and evolution: observations, models, experiments (co-organized), **PICO spot 3**
	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	**IE3.4/TS11.7/GD10.3/GI3.17/GM2.13/GMPV10.7/HS11.3/NH6.4/SSP1.8**, Imaging techniques in laboratory modelling of geological processes (co-organized), **PICO spot 4**
	GD8.3/GMPV9.4/TS9.10, The geology of the Azores: a comprehensive approach to understanding a unique geological, geochemical and geodynamic setting (co-organized), **PICO spot 3**
	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	
TU4, 15:30–17:00	**IE3.2/NH6.3/CR2.10/EMRP4.34/GI2.10/GM2.15/GMPV5.5/HS11.54/SSS13.75**, The use of Remotely Piloted Aircraft Systems (RPAS) in monitoring applications and management of natural hazards (co-organized), **PICO spot 4**
Wednesday, 11 April	
WE1, 08:30–10:00	**GMPV2.9/PS6.3**, Metals and sulfides in magmatic systems: from core formation to ore formation (co-organized), **PICO spot 3**
	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	**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**
	NH9.5/GMPV6.7/HS11.37/SM3.18/SSS13.61, Single and multi-hazard risk assessment and mitigation in developing countries: Challenges and opportunities for innovation (co-organized), **PICO spot 1**
WE3, 13:30–15:00	**SSP3.6/AS4.19/GM3.11/GMPV6.2/HS9.11/NH2.3/OS2.7**, Bedform dynamics and morphodynamics: from pyroclastic eruptions to deep see turbidites (co-organized), **PICO spot 1**
WE4, 15:30–17:00	**SSP3.6/AS4.19/GM3.11/GMPV6.2/HS9.11/NH2.3/OS2.7**, Bedform dynamics and morphodynamics: from pyroclastic eruptions to deep see turbidites (co-organized), **PICO spot 1**
Thursday, 12 April	
TH1, 08:30–10:00	**GMPV4.8/CL1.34**, Arctic, Antarctic and other glaciated terranes volcanism - magmatic, tectonic, geomorphic and climatic implications (co-organized), **PICO spot 3**

Friday, 13 April	
FR2, 10:30–12:00	**TS11.2/GD10.2/GMPV10.2**, Analogue and numerical modelling of tectonic processes (co-organized), **PICO spot 3**

GMPV – Geochemistry, Mineralogy, Petrology & Volcanology (#EGU18GMPV) – Posters

Monday, 09 April	
MO5, 17:30–19:00	**GMPV2.3/GD3.4/SM4.20**, Evolution of the Earth's mantle: a petrological, geochemical and isotopic perspective on lithospheric mantle xenoliths, orogenic peridotites and deep-seated mantle domains (co-organized), **Hall X2**, **X2.299–X2.325**
	GMPV3.1/TS3.9, Progress in Metamorphic Geology: Multi-scale Model Testing from Minerals to Tectonic Plates (co-organized), **Hall X2**, **X2.326–X2.345**
	GMPV3.2/GD2.5/TS2.7, Shaping the lithosphere: fluid-rock interaction, deformation and volatiles cycle (co-organized), **Hall X2**, **X2.346–X2.373**
	GMPV4.3, Storage, activation and transport processes within magmatic systems (co-sponsored by JpGU), **Hall X2**, **X2.374–X2.392**
	GMPV5.2/GI3.9/SM6.04, Geophysical imaging of volcanoes (co-organized), **Hall X2**, **X2.393–X2.418**
	GD5.1/EMRP4.19/GMPV2.4/SM4.18/TS9.4, Subduction dynamics from surface to deep mantle (co-organized), **Hall X2**, **X2.245–X2.287**
	NH9.11/GMPV6.11/HS11.43/SM3.19/SSS13.63, Risk Management and risk hedging with examples from natural catastrophic events (co-organized), **Hall X1**, **X1.202–X1.215**
	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**
	GI1.4/GMPV10.1/NH11.9/SM5.04, New frontiers of multiscale monitoring, analysis and modeling of environmental systems (co-organized), **Hall X1**, **X1.29–X1.53**
	GM2.3/CR2.6/GI3.15/GMPV10.3/HS11.18/NH4.6/SM1.04/SSS13.22, Environmental Seismology: Deciphering Earth’s surface processes with seismic methods (co-organized), **Hall X1**, **X1.294–X1.312**
	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**
Tuesday, 10 April	
TU5, 17:30–19:00	**GMPV3.3/BG5.4/TS10.5**, From hydrothermal systems to mud volcanoes: structure, evolution and monitoring of active and fossile piercements (co-organized), **Hall X2**, **X2.353–X2.377**
	GMPV3.4/EMRP4.14/TS2.5, Pores, cracks, fluids and permeability in rocks and magmas (co-organized), **Hall X2**, **X2.378–X2.392**
	GMPV3.7, Gem materials: properties and genesis processes, **Hall X2**, **X2.393–X2.401**
	GMPV4.1/G3.7/GM7.7/NH2.8/TS10.3, Volcanic processes: Tectonics, Deformation, Geodesy (co-organized), **Hall X2**, **X2.402–X2.438**
	GMPV6.6/ERE3.6/NH2.10, Volcanic resources (co-organized), **Hall X2**, **X2.439–X2.452**
	IE3.3/GM2.2/CR2.5/GI3.13/GMPV10.4/HS6.9/NH6.10/SSS13.21, High Resolution Topography in the Geosciences: Methods and Applications (co-sponsored by JpGU) (co-organized), **Hall X2**, **X2.51–X2.72**

	GD2.3/EMRP4.16/GMPV2.5/SM4.10, Integrated geophysical-petrological modelling of the crust and upper mantle at multiple scales (co-organized), **Hall X2**, **X2.310–X2.327**
	NH9.6/GMPV6.8/HS11.38/SM3.20, Resilience and vulnerability assessments in natural hazards and risk analysis (co-organized), **Hall X1**, **X1.237–X1.260**
	EMRP3.4/GD9.6/GMPV7.5/TS11.10, Paleomagnetism and magnetic fabric: Recent advances and links to tectonics and deep Earth dynamics (co-organized), **Hall X2**, **X2.143–X2.175**
	GD2.1/GMPV8.1/SM4.07, Geodynamics of continental crust and upper mantle, and the nature of mantle discontinuities (co-organized), **Hall X2**, **X2.285–X2.298**
	GD6.1/GMPV8.2/TS6.6, Models and Observations of Vertical Motion (Move-On) related to rifting, and post-breakup evolution of passive margins: Linking observations to theoretical predictions in geodynamics (co-organized), **Hall X2**, **X2.328–X2.352**
	TS9.2/GD5.7/GMPV8.4/SM1.09, Subduction interface properties and large subduction earthquakes: integrating geological and geophysical observations, laboratory results, and numerical modeling (co-sponsored by JpGU) (co-organized), **Hall X2**, **X2.246–X2.273**
	TS6.1/GD6.2/GM4.7/GMPV8.6/SSP3.17, Evolution and architecture of rifts and passive margins: from mantle dynamics to surface processes (co-organized), **Hall X2**, **X2.199–X2.245**
	TS3.1/GMPV8.10, Strain localization from the grain- to the plate-scale: rheology, mechanics and anisotropy (including tephan Mueller Medal Lecture) (co-organized), **Hall X2**, **X2.176–X2.198**
Wednesday, 11 April	
WE5, 17:30–19:00	**GMPV1.1**, Open Session on Geochemistry, Mineralogy, Petrology and Volcanology (including Arne Richter Award Lecture and Robert Wilhelm Bunsen Medal Lecture)), **Hall X2**, **X2.307–X2.344**
	GMPV1.7/BG1.34, Micro- and nanoscale Geosciences (co-organized), **Hall X2**, **X2.362–X2.370**
	GMPV5.1/NH2.11/SM6.03, Volcano monitoring with instrument networks (co-organized), **Hall X2**, **X2.371–X2.412**
	IE2.2/GMPV1.4/BG1.11/CL4.29/ERE1.6/GD3.6/PS1.1/SSP1.10, Terrestrial Planet Evolution: deep carbon cycle and interior/exterior coupling (co-organized), **Hall X2**, **X2.345–X2.361**
	IE2.6/SSP2.2/CL4.23/GMPV1.9, Past and Future Mass Extinctions, Climate and Environmental Change: where do we stand? (co-organized), **Hall X1**, **X1.214–X1.230**
	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**
	EMRP1.3/GMPV3.5/NH3.17/SM2.04/TS2.4, Rock Physics and geomechanical characterisation of rocks from the micro to macroscale: fabric, fractures and fluids (co-organized), **Hall X2**, **X2.68–X2.94**
	TS2.2/GMPV3.8, The timing of faulting, fracturing and fluid-flow in the upper crust (co-organized), **Hall X2**, **X2.137–X2.156**
	NH2.1/GI3.21/GMPV6.3, Volcano Records and Quantification of Volcanic Hazards (co-organized), **Hall X1**, **X1.116–X1.127**

	NH9.10/GMPV6.10/HS11.42/SM3.16/SSS13.62, Global and continental scale risk assessment for natural hazards: methods and practice (including Plinius Medal Lecture) (including NH Division Outstanding ECS Lecture) (co-organized), **Hall X1**, **X1.194–X1.213**
	GD7.1/GMPV8.7/SM4.15/TS9.12, The structure and evolution of the oceanic lithosphere: interplay between magmatic, tectonic and hydrothermal processes at spreading ridges (co-organized), **Hall X2**, **X2.234–X2.248**
	TS7.11/GMPV9.1/SSP2.15, The evolution of the Carpathians - Dinarides - Pannonian orogenic and sedimentary basins system (co-organized), **Hall X2**, **X2.157–X2.170**
Thursday, 12 April	
TH5, 17:30–19:00	**GMPV1.5/TS3.5**, Microstructures as an interpretative tool in igneous and metamorphic petrology (co-organized), **Hall X2**, **X2.243–X2.260**
	GMPV2.1, Trace elements and isotopes: the markers of geological change, **Hall X2**, **X2.261–X2.279**
	GMPV2.2/PS1.10, High-precision geochronology of geological and planetary processes (co-organized), **Hall X2**, **X2.280–X2.294**
	GMPV4.4/NH2.6, Magma ascent, degassing and eruptive dynamics: linking experiments, models and observations (co-organized), **Hall X2**, **X2.295–X2.319**
	GMPV4.5/AS3.8, Volcanic Gas Emissions (co-organized), **Hall X2**, **X2.320–X2.340**
	GMPV4.6/NH2.5, Numerical simulations of volcanic and magmatic phenomena: model development, validation and application (co-organized), **Hall X2**, **X2.341–X2.356**
	SSP3.12/BG6.2/GMPV3.10/HS11.47, Sedimentary and diagenetic minerals: nucleation, growth mechanisms, and reactions that build Earth’s geological archive (co-organized), **Hall X1**, **X1.346–X1.365**
	GD9.1/EMRP4.22/GMPV8.9/TS3.7/TS9, Long-term rheology and heat budget of deforming and reacting rocks: from laboratory to geological scales (including GD Divsion Outstanding ECS Lecture) (co-organized), **Hall X2**, **X2.189–X2.218**
	TS7.10/GMPV9.3/SM2.12/SSP2.17, Tectonics and Geodynamics of the Mediterranean (co-organized), **Hall X2**, **X2.151–X2.170**
	TS7.7/GD8.8/GMPV9.5/SM2.14, Dynamics and Structures of the Tethyan realm: Collisions and back-arcs from the Mediterranean to the Himalayas (co-organized), **Hall X2**, **X2.83–X2.112**
Friday, 13 April	
FR5, 17:30–19:00	**GMPV2.7/PS1.12**, Accretion, Differentiation and Volatiles: constraints on terrestrial planets (co-organized), **Hall X2**, **X2.347–X2.355**
	GMPV2.10/TS3.10, Understanding granites – state of the art and ways ahead (co-organized), **Hall X2**, **X2.356–X2.377**
	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**
	GMPV5.4, UV, visible and IR imaging of volcanic phenomena, **Hall X2**, **X2.388–X2.395**
	GMPV6.1/AS3.32/CL5.22/NH2.7, Volcanic Ash – Generation, Transport, Impacts and Applications (co-organized), **Hall X2**, **X2.396–X2.407**
	IE1.5/BG1.41/GMPV6.13/SSS13.71, Medical Geology: an interdisciplinary field of science for the benefit of the society (co-organized), **Hall A**, **A.344–A.358**

	SSP3.10/BG6.3/GMPV3.6, Formation and diagenetic pathways of carbonate archives: From ACC to dolomite (co-organized), **Hall X1**, **X1.287–X1.303**
	GD3.2/GMPV7.2/SM4.19/TS9.6, Causes and consequences of mantle upwellings (co-organized), **Hall X2**, **X2.333–X2.346**
	GD3.1/GMPV7.3/PS1.2/SM4.08, Dynamics, structure, evolution and cyclicity of the plate-mantle system in the Earth and planetary bodies (including Augustus Love Medal Lecture) (co-organized), **Hall X2**, **X2.303–X2.332**
	PS1.9/GMPV10.8/TS11.6, 2D/3D digital geological mapping and modelling: advanced techniques and case studies (co-organized), **Hall X4**, **X4.182–X4.203**