EMRP – Earth Magnetism & Rock Physics (#EGU18EMRP) – Orals

Monday, 09 April	
MO1, 08:30–10:00	**EMRP2.5/GD4.2/GI2.12/PS6.1/ST2.11**, Earth's and planetary magnetic fields: spatial and temporal characteristics (co-organized), **08:30–10:00**, **Room K1**
	EMRP3.2/CL5.24, Environmental Magnetism: advances and perspectives (co-organized), **08:30–10:00**, **Room 2.15**
	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**
	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**
	ST3.5/EMRP4.33/G4.4, Dynamics and interaction of processes in Earth and its space environment: perspectives from low-Earth orbiting satellites and beyond (co-organized), **08:30–10:00**, **Room 2.95**
	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	**EMRP3.5**, Geomagnetic field variations in ancient times: new paleo/archeomagnetic data and models to disclose fundamental properties of the Earth's magnetic field, **10:30–12:00**, **Room K1**
	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**
MO3, 13:30–15:00	**EMRP1.8/SM2.19/TS3.11**, Contribution of high-pressure mineralogy and rheology to the understanding of the Earth dynamics – in memoriam of Harry W. Green II (co-organized), **13:30–15:00**, **Room 1.61**
	EMRP2.2/ST3.10, Earth Observation with Swarm: Results from Four Years in Orbit (co-organized), **13:30–17:00**, **Room K1**
	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**
MO4, 15:30–17:00	**EMRP2.2/ST3.10**, Earth Observation with Swarm: Results from Four Years in Orbit (co-organized), **13:30–17:00**, **Room K1**
	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**
Tuesday, 10 April	
TU1, 08:30–10:00	**EMRP2.6/GD2.9/TS1.3**, Advancements in magnetic field and electromagnetic induction exploration of the Earth's interior (co-organized) (co-organized), **08:30–12:00**, **Room K1**
	SM2.01/EMRP4.28/NH4.11, Earthquake Source Processes under Rapid and Slow Deformation: Field Evidence, Seismic Imaging and Numerical Modeling (co-organized), **08:30–12:00**, **Room -2.32**
TU2, 10:30–12:00	**EMRP2.6/GD2.9/TS1.3**, Advancements in magnetic field and electromagnetic induction exploration of the Earth's interior (co-organized) (co-organized), **08:30–12:00**, **Room K1**

	GMPV3.4/EMRP4.14/TS2.5, Pores, cracks, fluids and permeability in rocks and magmas (co-organized), **10:30–12:00**, **Room -2.21**
	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**
	SM2.01/EMRP4.28/NH4.11, Earthquake Source Processes under Rapid and Slow Deformation: Field Evidence, Seismic Imaging and Numerical Modeling (co-organized), **08:30–12:00**, **Room -2.32**
TU3, 13:30–15:00	**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**
TU4, 15:30–17:00	**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**
	GI2.6/AS4.20/EMRP4.7/NH11.11, Geoscience applications of environmental radioactivity (co-organized), **15:30–17:00**, **Room 0.49**
TU6, 19:00–20:00	**ML23/EMRP**, Petrus Peregrinus Medal Lecture by Mioara Mandea (co-organized), **19:00–20:00**, **Room K1**
Wednesday, 11 April	
WE1, 08:30–10:00	**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**
	GI1.5/EMRP4.6/ESSI2.11/NH11.10/PS5.5, Data fusion, integration, correlation and advances of non-destructive testing methods and numerical developments for engineering and geosciences applications (co-organized), **08:30–12:00**, **Room 0.49**
WE2, 10:30–12:00	**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**
	GI1.5/EMRP4.6/ESSI2.11/NH11.10/PS5.5, Data fusion, integration, correlation and advances of non-destructive testing methods and numerical developments for engineering and geosciences applications (co-organized), **08:30–12:00**, **Room 0.49**
WEL, 12:15–13:15	**DM5/EMRP**, Division meeting for Earth Magnetism & Rock Physics (EMRP) (co-organized), **12:15–13:15**, **Room K1**
WE3, 13:30–15:00	**EMRP1.2**, Advances in petrophysics and rock-physics: integrating models, laboratory experiments and field studies, **13:30–15:00**, **Room 0.96**
	GD9.5/EMRP4.24/SM4.06, Anisotropy from crust to core: Observations, models and implications (co-organized), **13:30–17:00**, **Room -2.21**
WE4, 15:30–17:00	**EMRP1.5/SM6.02/TS5.7**, Understanding fluid driven ruptures, from natural earthquakes to reservoirs induced seismicity (EMRP Division Outstanding ECS Lecture) (co-organized), **15:30–17:00**, **Room 0.96**
	ERE6.3/EMRP4.1/TS2.6, Fracture, mechanics and flow in tight reservoirs (co-organized), **15:30–17:00**, **Room 0.49**
	GD8.2/CL4.21/CR8.4/EMRP4.20/SM4.11/TS1.7, Unveiling the structure, evolution and influence of the Antarctic Lithosphere (co-organized), **15:30–17:00**, **Room -2.47**
	GD9.5/EMRP4.24/SM4.06, Anisotropy from crust to core: Observations, models and implications (co-organized), **13:30–17:00**, **Room -2.21**
Thursday, 12 April	

TH1, 08:30–10:00	**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**
	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**
TH2, 10:30–12:00	**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**
	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**
TH3, 13:30–15:00	**GI3.5/EMRP4.11/HS11.14/NH11.12**, Innovative instrumentations, techniques, geophysical methods and models for near surface geophysics, cities and transport infrastructures (including GI Division Outstanding ECS Lecture) (co-organized), **13:30–17:00**, **Room 0.49**
	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**
TH4, 15:30–17:00	**GI3.5/EMRP4.11/HS11.14/NH11.12**, Innovative instrumentations, techniques, geophysical methods and models for near surface geophysics, cities and transport infrastructures (including GI Division Outstanding ECS Lecture) (co-organized), **13:30–17:00**, **Room 0.49**
	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**
Friday, 13 April	
FR1, 08:30–10:00	**GI3.3/EMRP4.10/NH9.23/PS4.10**, Cultural Heritage resilience against climate events and other risks: modelling, remote and in-situ sensing, material characterization and ICT tools (co-sponsored by JpGU) (co-organized), **08:30–10:00**, **Room L3**
	NH4.5/EMRP4.27/SM3.03, Short-term Earthquakes Forecast (StEF) and multi-parametric time-Dependent Assessment of Seismic Hazard (t-DASH) (Co-sponsored by JpGU) (co-organized), **08:30–12:00**, **Room L4/5**
FR2, 10:30–12:00	**GI1.1/EMRP4.3/ESSI2.10/SSS13.15**, Applications of Data, Methods and Models in Geosciences (co-organized), **10:30–12:00**, **Room L3**
	NH4.5/EMRP4.27/SM3.03, Short-term Earthquakes Forecast (StEF) and multi-parametric time-Dependent Assessment of Seismic Hazard (t-DASH) (Co-sponsored by JpGU) (co-organized), **08:30–12:00**, **Room L4/5**
FR3, 13:30–15:00	**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**
	SM6.01/EMRP4.32/NH4.17, Induced and Triggered Seismic Activity: Observation, Theory and Hazard Analysis (co-organized), **13:30–17:00**, **Room D1**
FR4, 15:30–17:00	**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**
	SM6.01/EMRP4.32/NH4.17, Induced and Triggered Seismic Activity: Observation, Theory and Hazard Analysis (co-organized), **13:30–17:00**, **Room D1**

EMRP – Earth Magnetism & Rock Physics (#EGU18EMRP) – 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**
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**

EMRP – Earth Magnetism & Rock Physics (#EGU18EMRP) – Posters

Monday, 09 April	
MO5, 17:30–19:00	**EMRP1.8/SM2.19/TS3.11**, Contribution of high-pressure mineralogy and rheology to the understanding of the Earth dynamics – in memoriam of Harry W. Green II (co-organized), **Hall X2**, **X2.32–X2.49**
	EMRP2.2/ST3.10, Earth Observation with Swarm: Results from Four Years in Orbit (co-organized), **Hall X2**, **X2.50–X2.79**
	EMRP2.5/GD4.2/GI2.12/PS6.1/ST2.11, Earth's and planetary magnetic fields: spatial and temporal characteristics (co-organized), **Hall X2**, **X2.80–X2.102**
	EMRP3.2/CL5.24, Environmental Magnetism: advances and perspectives (co-organized), **Hall X2**, **X2.103–X2.115**
	EMRP3.5, Geomagnetic field variations in ancient times: new paleo/archeomagnetic data and models to disclose fundamental properties of the Earth's magnetic field, **Hall X2**, **X2.119–X2.134**
	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**
	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**
	GD8.4/EMRP4.21/SM2.13/SSP2.14, Geodynamics of the Caucasian-Arabian Syntaxis and the East African Rift system (co-organized), **Hall X2**, **X2.288–X2.298**
	ST3.5/EMRP4.33/G4.4, Dynamics and interaction of processes in Earth and its space environment: perspectives from low-Earth orbiting satellites and beyond (co-organized), **Hall X4**, **X4.249–X4.272**
	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	**EMRP2.6/GD2.9/TS1.3**, Advancements in magnetic field and electromagnetic induction exploration of the Earth's interior (co-organized) (co-organized), **Hall X2**, **X2.125–X2.142**
	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**
	GI2.6/AS4.20/EMRP4.7/NH11.11, Geoscience applications of environmental radioactivity (co-organized), **Hall X4**, **X4.302–X4.318**
	GMPV3.4/EMRP4.14/TS2.5, Pores, cracks, fluids and permeability in rocks and magmas (co-organized), **Hall X2**, **X2.378–X2.392**
	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**
	SM2.01/EMRP4.28/NH4.11, Earthquake Source Processes under Rapid and Slow Deformation: Field Evidence, Seismic Imaging and Numerical Modeling (co-organized), **Hall X3**, **X3.1–X3.36**

Wednesday, 11 April	
WE5, 17:30–19:00	**EMRP1.1**, Open Session in Rock Physics, **Hall X2**, **X2.40–X2.56**
	EMRP1.2, Advances in petrophysics and rock-physics: integrating models, laboratory experiments and field studies, **Hall X2**, **X2.57–X2.67**
	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**
	EMRP1.5/SM6.02/TS5.7, Understanding fluid driven ruptures, from natural earthquakes to reservoirs induced seismicity (EMRP Division Outstanding ECS Lecture) (co-organized), **Hall X2**, **X2.95–X2.106**
	ERE6.3/EMRP4.1/TS2.6, Fracture, mechanics and flow in tight reservoirs (co-organized), **Hall X4**, **X4.221–X4.230**
	GI1.5/EMRP4.6/ESSI2.11/NH11.10/PS5.5, Data fusion, integration, correlation and advances of non-destructive testing methods and numerical developments for engineering and geosciences applications (co-organized), **Hall X4**, **X4.262–X4.281**
	GD8.2/CL4.21/CR8.4/EMRP4.20/SM4.11/TS1.7, Unveiling the structure, evolution and influence of the Antarctic Lithosphere (co-organized), **Hall X2**, **X2.267–X2.287**
	GD9.5/EMRP4.24/SM4.06, Anisotropy from crust to core: Observations, models and implications (co-organized), **Hall X2**, **X2.288–X2.306**
Thursday, 12 April	
TH5, 17:30–19:00	**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**
	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**
	GI3.3/EMRP4.10/NH9.23/PS4.10, Cultural Heritage resilience against climate events and other risks: modelling, remote and in-situ sensing, material characterization and ICT tools (co-sponsored by JpGU) (co-organized), **Hall X1**, **X1.93–X1.107**
	GI3.5/EMRP4.11/HS11.14/NH11.12, Innovative instrumentations, techniques, geophysical methods and models for near surface geophysics, cities and transport infrastructures (including GI Division Outstanding ECS Lecture) (co-organized), **Hall X1**, **X1.108–X1.129**
	GI3.6/EMRP4.12/ERE2.3/SSP1.9/SSS13.18, Geoscientific Underground Labs and Test Sites (co-organized), **Hall X1**, **X1.130–X1.140**
	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**
	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**
	GD10.1/EMRP4.26/TS11.8, Recent advances in Geodynamics: Computational methods and applications (co-organized), **Hall X2**, **X2.219–X2.233**
Friday, 13 April	
FR5, 17:30–19:00	**GI1.1/EMRP4.3/ESSI2.10/SSS13.15**, Applications of Data, Methods and Models in Geosciences (co-organized), **Hall X4**, **X4.223–X4.241**

	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**
	NH4.5/EMRP4.27/SM3.03, Short-term Earthquakes Forecast (StEF) and multi-parametric time-Dependent Assessment of Seismic Hazard (t-DASH) (Co-sponsored by JpGU) (co-organized), **Hall X1**, **X1.114–X1.144**
	SM6.01/EMRP4.32/NH4.17, Induced and Triggered Seismic Activity: Observation, Theory and Hazard Analysis (co-organized), **Hall X3**, **X3.1–X3.22**