

## SM – Seismology (#EGU18SM) – Orals

### Monday, 09 April

<b>MO1</b> , 08:30–10:00	<b>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</b> , COST Actions in Geosciences: breakthrough ideas, research activities and results (co-organized), <b>08:30–11:45, Room 0.49</b>
	<b>TS7.3/GD2.6/GM4.6/SM2.08/SSP2.19</b> , Style of deformation and tectono-sedimentary evolution of fold-and-thrust belts and foreland basins : from nature to models (co-organized), <b>08:30–15:00, Room D2</b>
	<b>NH5.1/OS2.12/SM3.07</b> , Tsunami (co-organized), <b>08:30–17:00, Room L6</b>
	<b>GD5.1/EMRP4.19/GMPV2.4/SM4.18/TS9.4</b> , Subduction dynamics from surface to deep mantle (co-organized), <b>08:30–17:00, Room D3</b>
	<b>GMPV5.2/GI3.9/SM6.04</b> , Geophysical imaging of volcanoes (co-organized), <b>08:30–12:00, Room G1</b>
<b>MO2</b> , 10:30–12:00	<b>IE4.1/NP4.3/AS5.13/CL5.18/ESSI2.3/GD10.6/HS3.7/NH11.14/SM7.03</b> , Big data and machine learning in geosciences (co-organized), <b>10:30–17:00, Room N2</b>
	<b>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</b> , COST Actions in Geosciences: breakthrough ideas, research activities and results (co-organized), <b>08:30–11:45, Room 0.49</b>
	<b>TS7.3/GD2.6/GM4.6/SM2.08/SSP2.19</b> , Style of deformation and tectono-sedimentary evolution of fold-and-thrust belts and foreland basins : from nature to models (co-organized), <b>08:30–15:00, Room D2</b>
	<b>NH5.1/OS2.12/SM3.07</b> , Tsunami (co-organized), <b>08:30–17:00, Room L6</b>
	<b>GD5.1/EMRP4.19/GMPV2.4/SM4.18/TS9.4</b> , Subduction dynamics from surface to deep mantle (co-organized), <b>08:30–17:00, Room D3</b>
	<b>GMPV5.2/GI3.9/SM6.04</b> , Geophysical imaging of volcanoes (co-organized), <b>08:30–12:00, Room G1</b>
	<b>GDB2</b> , Hands on or hands off?, <b>10:30–12:00, Room E1</b>
<b>MOL</b> , 12:15–13:15	<b>PCN2</b> , EGU Plenary, <b>12:15–13:15, Room E1</b>
<b>MO3</b> , 13:30–15:00	<b>SM7.01</b> , Advances in Computational Seismology (including SM Division Outstanding ECS Lecture), <b>13:30–17:00, Room -2.47</b>
	<b>IE4.1/NP4.3/AS5.13/CL5.18/ESSI2.3/GD10.6/HS3.7/NH11.14/SM7.03</b> , Big data and machine learning in geosciences (co-organized), <b>10:30–17:00, Room N2</b>
	<b>TS7.3/GD2.6/GM4.6/SM2.08/SSP2.19</b> , Style of deformation and tectono-sedimentary evolution of fold-and-thrust belts and foreland basins : from nature to models (co-organized), <b>08:30–15:00, Room D2</b>
	<b>TS6.2/GD6.3/SM2.16</b> , From break-up to spreading: Multi-scale Observations and Models of end-of-rift, Continent-Ocean Transition, and Spreading Initiation (co-organized), <b>13:30–15:00, Room G2</b>
	<b>EMRP1.8/SM2.19/TS3.11</b> , Contribution of high-pressure mineralogy and rheology to the understanding of the Earth dynamics – in memoriam of Harry W. Green II (co-organized), <b>13:30–15:00, Room 1.61</b>
<b>NH5.1/OS2.12/SM3.07</b> , Tsunami (co-organized), <b>08:30–17:00, Room L6</b>	

	<p><b>NH9.12/AS5.17/CL5.30/ESS1.9/GI0.4/GMPV6.12/HS11.44/SM3.15/SSS13.66</b>, 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), <b>13:30–15:00, Room L8</b></p> <p><b>GD5.1/EMRP4.19/GMPV2.4/SM4.18/TS9.4</b>, Subduction dynamics from surface to deep mantle (co-organized), <b>08:30–17:00, Room D3</b></p> <p><b>GMPV2.3/GD3.4/SM4.20</b>, 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), <b>13:30–17:00, Room G1</b></p> <p><b>US2</b>, The future of Earth and Planetary Observations from Space, <b>13:30–17:00, Room E1</b></p>
<b>MO4</b> , 15:30–17:00	<p><b>SM7.01</b>, Advances in Computational Seismology (including SM Division Outstanding ECS Lecture), <b>13:30–17:00, Room -2.47</b></p> <p><b>IE4.1/NP4.3/AS5.13/CL5.18/ESSI2.3/GD10.6/HS3.7/NH11.14/SM7.03</b>, Big data and machine learning in geosciences (co-organized), <b>10:30–17:00, Room N2</b></p> <p><b>ML45/SM</b>, SM Division Outstanding ECS Lecture by Martin van Driel (co-organized), <b>15:30–15:45, Room -2.47</b></p> <p><b>GM2.3/CR2.6/GI3.15/GMPV10.3/HS11.18/NH4.6/SM1.04/SSS13.22</b>, Environmental Seismology: Deciphering Earth's surface processes with seismic methods (co-organized), <b>15:30–17:00, Room 0.31</b></p> <p><b>TS6.3/GD6.4/SM2.15</b>, Formation and reactivation of small oceanic domains and hyperextended rift basins (co-organized), <b>15:30–17:00, Room G2</b></p> <p><b>NH5.1/OS2.12/SM3.07</b>, Tsunami (co-organized), <b>08:30–17:00, Room L6</b></p> <p><b>NH9.11/GMPV6.11/HS11.43/SM3.19/SSS13.63</b>, Risk Management and risk hedging with examples from natural catastrophic events (co-organized), <b>15:30–17:00, Room L8</b></p> <p><b>GD5.1/EMRP4.19/GMPV2.4/SM4.18/TS9.4</b>, Subduction dynamics from surface to deep mantle (co-organized), <b>08:30–17:00, Room D3</b></p> <p><b>GMPV2.3/GD3.4/SM4.20</b>, 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), <b>13:30–17:00, Room G1</b></p> <p><b>GI1.4/GMPV10.1/NH11.9/SM5.04</b>, New frontiers of multiscale monitoring, analysis and modeling of environmental systems (co-organized), <b>15:30–17:00, Room 0.49</b></p> <p><b>US2</b>, The future of Earth and Planetary Observations from Space, <b>13:30–17:00, Room E1</b></p>
<b>Tuesday, 10 April</b>	
<b>TU1</b> , 08:30–10:00	<p><b>SM2.01/EMRP4.28/NH4.11</b>, Earthquake Source Processes under Rapid and Slow Deformation: Field Evidence, Seismic Imaging and Numerical Modeling (co-organized), <b>08:30–12:00, Room -2.32</b></p> <p><b>TS9.2/GD5.7/GMPV8.4/SM1.09</b>, Subduction interface properties and large subduction earthquakes: integrating geological and geophysical observations, laboratory results, and numerical modeling (co-sponsored by JpGU) (co-organized), <b>08:30–12:00, Room D1</b></p> <p><b>NH9.6/GMPV6.8/HS11.38/SM3.20</b>, Resilience and vulnerability assessments in natural hazards and risk analysis (co-organized), <b>08:30–10:00, Room L7</b></p>

	<b>GD2.2/SM4.14</b> , Crust-Lithosphere-Asthenosphere Interplay, Deformation and Dynamics (co-sponsored by JpGU) (co-organized), <b>08:30–10:00, Room -2.47</b>
<b>TU1b</b> , 09:00–10:00	<b>US1</b> , Past achievements and future challenges for the Geosciences (co-sponsored by AGU), <b>09:00–12:00, Room E1</b>
<b>TU2</b> , 10:30–12:00	<b>SM2.01/EMRP4.28/NH4.11</b> , Earthquake Source Processes under Rapid and Slow Deformation: Field Evidence, Seismic Imaging and Numerical Modeling (co-organized), <b>08:30–12:00, Room -2.32</b>
	<b>TS9.2/GD5.7/GMPV8.4/SM1.09</b> , Subduction interface properties and large subduction earthquakes: integrating geological and geophysical observations, laboratory results, and numerical modeling (co-sponsored by JpGU) (co-organized), <b>08:30–12:00, Room D1</b>
	<b>GD2.3/EMRP4.16/GMPV2.5/SM4.10</b> , Integrated geophysical-petrological modelling of the crust and upper mantle at multiple scales (co-organized), <b>10:30–12:00, Room -2.47</b>
	<b>US1</b> , Past achievements and future challenges for the Geosciences (co-sponsored by AGU), <b>09:00–12:00, Room E1</b>
<b>TU3</b> , 13:30–15:00	<b>SM5.01/NH4.16</b> , Ground translation, strain and rotation: New and improved instrumentation and applications (co-organized), <b>13:30–17:00, Room -2.47</b>
	<b>GDB4</b> , Low-risk geo-engineering: are techniques available now?, <b>13:30–15:00, Room E1</b>
<b>TU4</b> , 15:30–17:00	<b>SM5.01/NH4.16</b> , Ground translation, strain and rotation: New and improved instrumentation and applications (co-organized), <b>13:30–17:00, Room -2.47</b>
	<b>GD2.1/GMPV8.1/SM4.07</b> , Geodynamics of continental crust and upper mantle, and the nature of mantle discontinuities (co-organized), <b>15:30–17:00, Room D3</b>
<b>TU6a</b> , 19:00–20:30	<b>GDB3</b> , The Early Career Scientists' Great Debate: Should early career scientists use time developing transferrable skills?, <b>19:00–20:30, Room E1</b>
<b>Wednesday, 11 April</b>	
<b>WE1</b> , 08:30–10:00	<b>SM1.01</b> , General Contributions on Earthquakes, Earth Structure, Seismology (including Beno Gutenberg Medal lecture), <b>08:30–12:00, Room G1</b>
	<b>EMRP1.3/GMPV3.5/NH3.17/SM2.04/TS2.4</b> , Rock Physics and geomechanical characterisation of rocks from the micro to macroscale: fabric, fractures and fluids (co-organized), <b>08:30–12:00, Room 0.96</b>
	<b>NH9.10/GMPV6.10/HS11.42/SM3.16/SSS13.62</b> , Global and continental scale risk assessment for natural hazards: methods and practice (including Plinius Medal Lecture) (including NH Division Outstanding ECS Lecture) (co-organized), <b>08:30–12:00, Room L6</b>
	<b>TS7.12/GD8.6/SM4.13</b> , The Alps and neighbouring mountain belts (Apennines, Dinarides, Carpathians): a multidisciplinary vision (AlpArray) (co-organized), <b>08:30–15:00, Room D2</b>
	<b>GD7.1/GMPV8.7/SM4.15/TS9.12</b> , The structure and evolution of the oceanic lithosphere: interplay between magmatic, tectonic and hydrothermal processes at spreading ridges (co-organized), <b>08:30–12:00, Room -2.47</b>
	<b>GMPV5.1/NH2.11/SM6.03</b> , Volcano monitoring with instrument networks (co-organized), <b>08:30–15:00, Room D3</b>
	<b>US4</b> , Fifty years of International Ocean Drilling, <b>08:30–12:00, Room E1</b>
<b>WE2</b> , 10:30–12:00	<b>SM1.01</b> , General Contributions on Earthquakes, Earth Structure, Seismology (including Beno Gutenberg Medal lecture), <b>08:30–12:00, Room G1</b>

	<b>EMRP1.3/GMPV3.5/NH3.17/SM2.04/TS2.4</b> , Rock Physics and geomechanical characterisation of rocks from the micro to macroscale: fabric, fractures and fluids (co-organized), <b>08:30–12:00, Room 0.96</b>
	<b>TS2.1/SM2.06</b> , Faults and the deformation they cause: from outcrops to models (co-organized), <b>10:30–12:00, Room K1</b>
	<b>NH9.10/GMPV6.10/HS11.42/SM3.16/SSS13.62</b> , Global and continental scale risk assessment for natural hazards: methods and practice (including Plinius Medal Lecture) (including NH Division Outstanding ECS Lecture) (co-organized), <b>08:30–12:00, Room L6</b>
	<b>TS7.12/GD8.6/SM4.13</b> , The Alps and neighbouring mountain belts (Apennines, Dinarides, Carpathians): a multidisciplinary vision (AlpArray) (co-organized), <b>08:30–15:00, Room D2</b>
	<b>GD7.1/GMPV8.7/SM4.15/TS9.12</b> , The structure and evolution of the oceanic lithosphere: interplay between magmatic, tectonic and hydrothermal processes at spreading ridges (co-organized), <b>08:30–12:00, Room -2.47</b>
	<b>GMPV5.1/NH2.11/SM6.03</b> , Volcano monitoring with instrument networks (co-organized), <b>08:30–15:00, Room D3</b>
	<b>US4</b> , Fifty years of International Ocean Drilling, <b>08:30–12:00, Room E1</b>
<b>WEL</b> , 12:15–13:15	<b>DM18/SM</b> , Division meeting for Seismology (SM) (co-organized), <b>12:15–13:15, Room G1</b>
<b>WE3</b> , 13:30–15:00	<b>SM3.01/NH4.15</b> , Looking toward the next generation of Probabilistic Seismic Hazard Models (co-organized), <b>13:30–15:00, Room -2.32</b>
	<b>GD9.5/EMRP4.24/SM4.06</b> , Anisotropy from crust to core: Observations, models and implications (co-organized), <b>13:30–17:00, Room -2.21</b>
	<b>GD8.1/CR6.4/SM4.12/SSP2.18/TS1.6</b> , The Arctic connection - geodynamic, geologic and oceanographic development of the Arctic (co-organized), <b>13:30–15:00, Room -2.47</b>
	<b>TS7.12/GD8.6/SM4.13</b> , The Alps and neighbouring mountain belts (Apennines, Dinarides, Carpathians): a multidisciplinary vision (AlpArray) (co-organized), <b>08:30–15:00, Room D2</b>
	<b>GMPV5.1/NH2.11/SM6.03</b> , Volcano monitoring with instrument networks (co-organized), <b>08:30–15:00, Room D3</b>
<b>WE4</b> , 15:30–17:00	<b>TS8.1/GD7.5/SM2.09</b> , Structural evolution of continental and oceanic strike-slip plate boundaries (co-organized), <b>15:30–17:00, Room K1</b>
	<b>NH3.2/SM3.10/SSS13.46</b> , Ground damage, slope failures and liquefaction in seismically or volcanically active environments (co-organized), <b>15:30–17:00, Room L8</b>
	<b>GD9.5/EMRP4.24/SM4.06</b> , Anisotropy from crust to core: Observations, models and implications (co-organized), <b>13:30–17:00, Room -2.21</b>
	<b>GD8.2/CL4.21/CR8.4/EMRP4.20/SM4.11/TS1.7</b> , Unveiling the structure, evolution and influence of the Antarctic Lithosphere (co-organized), <b>15:30–17:00, Room -2.47</b>
	<b>EMRP1.5/SM6.02/TS5.7</b> , Understanding fluid driven ruptures, from natural earthquakes to reservoirs induced seismicity (EMRP Division Outstanding ECS Lecture) (co-organized), <b>15:30–17:00, Room 0.96</b>
<b>WE5</b> , 17:30–19:00	<b>PCN3</b> , EGU Award Ceremony, <b>17:30–20:00, Room E1</b>

<b>WE6, 19:00–20:00</b>	<b>PCN3, EGU Award Ceremony, 17:30–20:00, Room E1</b>
<b>Thursday, 12 April</b>	
<b>TH1, 08:30–10:00</b>	<b>SM4.01</b> , What lies beneath? Seismic tomography from crust to core, <b>08:30–10:00, Room D3</b>
	<b>TS5.2/G3.9/GD2.8/NH4.9/SM2.07</b> , The Interplay between Earthquakes, the Seismic Cycle and Long-term Deformation: Models and Observations (including TS Division Outstanding ECS Lecture) (co-organized), <b>08:30–12:00, Room K1</b>
	<b>TS7.7/GD8.8/GMPV9.5/SM2.14</b> , Dynamics and Structures of the Tethyan realm: Collisions and back-arcs from the Mediterranean to the Himalayas (co-organized), <b>08:30–12:00, Room D2</b>
	<b>NH4.2/SM3.06</b> , Seismic Hazard and Disaster Risk: Assessment, Testing, and Implementation (co-organized), <b>08:30–12:00, Room L4/5</b>
	<b>NH6.1/AS5.21/CR7.3/GI2.17/HS11.33/SM3.12/SSS13.54</b> , Application of remote sensing and Earth-observation data in natural hazard and risk studies (co-organized), <b>08:30–15:00, Room L6</b>
	<b>US3</b> , Cassini and future perspectives for the exploration of the outer solar system, <b>08:30–12:00, Room E1</b>
<b>TH2, 10:30–12:00</b>	<b>SM4.03</b> , Ambient seismic noise techniques: sources, monitoring, and imaging, <b>10:30–17:00, Room D3</b>
	<b>TS5.2/G3.9/GD2.8/NH4.9/SM2.07</b> , The Interplay between Earthquakes, the Seismic Cycle and Long-term Deformation: Models and Observations (including TS Division Outstanding ECS Lecture) (co-organized), <b>08:30–12:00, Room K1</b>
	<b>TS7.7/GD8.8/GMPV9.5/SM2.14</b> , Dynamics and Structures of the Tethyan realm: Collisions and back-arcs from the Mediterranean to the Himalayas (co-organized), <b>08:30–12:00, Room D2</b>
	<b>NH4.2/SM3.06</b> , Seismic Hazard and Disaster Risk: Assessment, Testing, and Implementation (co-organized), <b>08:30–12:00, Room L4/5</b>
	<b>NH6.1/AS5.21/CR7.3/GI2.17/HS11.33/SM3.12/SSS13.54</b> , Application of remote sensing and Earth-observation data in natural hazard and risk studies (co-organized), <b>08:30–15:00, Room L6</b>
	<b>US3</b> , Cassini and future perspectives for the exploration of the outer solar system, <b>08:30–12:00, Room E1</b>
<b>TH3, 13:30–15:00</b>	<b>SM4.03</b> , Ambient seismic noise techniques: sources, monitoring, and imaging, <b>10:30–17:00, Room D3</b>
	<b>TS5.4/SM1.06</b> , The 2016-2017 Central Italy seismic sequence: understanding earthquake faulting processes from Geodetic, Geological and Seismological data (co-organized), <b>13:30–15:00, Room K1</b>
	<b>TS7.10/GMPV9.3/SM2.12/SSP2.17</b> , Tectonics and Geodynamics of the Mediterranean (co-organized), <b>13:30–17:00, Room D2</b>
	<b>NH6.1/AS5.21/CR7.3/GI2.17/HS11.33/SM3.12/SSS13.54</b> , Application of remote sensing and Earth-observation data in natural hazard and risk studies (co-organized), <b>08:30–15:00, Room L6</b>
	<b>GDB5</b> , Natural versus anthropogenic threats for life on Earth, <b>13:30–15:00, Room E1</b>
<b>TH4, 15:30–17:00</b>	<b>SM4.03</b> , Ambient seismic noise techniques: sources, monitoring, and imaging, <b>10:30–17:00, Room D3</b>
	<b>TS5.5/SM2.11</b> , Earthquakes and segmentations along the Himalaya (co-organized), <b>15:30–17:00, Room K1</b>
	<b>TS7.10/GMPV9.3/SM2.12/SSP2.17</b> , Tectonics and Geodynamics of the Mediterranean (co-organized), <b>13:30–17:00, Room D2</b>

<b>TH6, 19:00–20:00</b>	<b>ML9/SM</b> , Beno Gutenberg Medal Lecture by Haruo Sato (co-organized), <b>19:00–20:00, Room G1</b>
<b>Friday, 13 April</b>	
<b>FR1, 08:30–10:00</b>	<b>SM8.01</b> , Real time seismology and earthquake early warning, <b>08:30–10:00, Room -2.21</b>
	<b>TS5.1/NH4.8/SM3.02</b> , Paleoseismicity, active faulting, surface deformation, and the implications on seismic hazard assessment (Fault2SHA) (co-organized), <b>08:30–15:00, Room D2</b>
	<b>NH4.5/EMRP4.27/SM3.03</b> , Short-term Earthquakes Forecast (StEF) and multi-parametric time-Dependent Assessment of Seismic Hazard (t-DASH) (Co-sponsored by JpGU) (co-organized), <b>08:30–12:00, Room L4/5</b>
	<b>NH6.2/CR7.4/G3.8/GI2.24/SM3.11/SSS13.55</b> , Imaging Geodesy with InSAR for geohazard and infrastructure monitoring (co-organized), <b>08:30–15:00, Room L6</b>
	<b>GD3.1/GMPV7.3/PS1.2/SM4.08</b> , Dynamics, structure, evolution and cyclicity of the plate-mantle system in the Earth and planetary bodies (including Augustus Love Medal Lecture) (co-organized), <b>08:30–15:00, Room D3</b>
	<b>US5</b> , Scientific research in a changing European Union: where we stand and what we aim for?, <b>08:30–10:00, Room E1</b>
<b>FR2, 10:30–12:00</b>	<b>SM4.02</b> , Imaging and inversion to explore the Earth's crust, <b>10:30–17:00, Room -2.21</b>
	<b>TS5.1/NH4.8/SM3.02</b> , Paleoseismicity, active faulting, surface deformation, and the implications on seismic hazard assessment (Fault2SHA) (co-organized), <b>08:30–15:00, Room D2</b>
	<b>NH4.5/EMRP4.27/SM3.03</b> , Short-term Earthquakes Forecast (StEF) and multi-parametric time-Dependent Assessment of Seismic Hazard (t-DASH) (Co-sponsored by JpGU) (co-organized), <b>08:30–12:00, Room L4/5</b>
	<b>NH6.2/CR7.4/G3.8/GI2.24/SM3.11/SSS13.55</b> , Imaging Geodesy with InSAR for geohazard and infrastructure monitoring (co-organized), <b>08:30–15:00, Room L6</b>
	<b>GD3.1/GMPV7.3/PS1.2/SM4.08</b> , Dynamics, structure, evolution and cyclicity of the plate-mantle system in the Earth and planetary bodies (including Augustus Love Medal Lecture) (co-organized), <b>08:30–15:00, Room D3</b>
<b>FR3, 13:30–15:00</b>	<b>SM4.02</b> , Imaging and inversion to explore the Earth's crust, <b>10:30–17:00, Room -2.21</b>
	<b>SM6.01/EMRP4.32/NH4.17</b> , Induced and Triggered Seismic Activity: Observation, Theory and Hazard Analysis (co-organized), <b>13:30–17:00, Room D1</b>
	<b>TS5.1/NH4.8/SM3.02</b> , Paleoseismicity, active faulting, surface deformation, and the implications on seismic hazard assessment (Fault2SHA) (co-organized), <b>08:30–15:00, Room D2</b>
	<b>NH4.3/SM3.04</b> , Statistical analysis of spatio-temporal properties of earthquake occurrence (co-organized), <b>13:30–15:00, Room L7</b>
	<b>NH6.2/CR7.4/G3.8/GI2.24/SM3.11/SSS13.55</b> , Imaging Geodesy with InSAR for geohazard and infrastructure monitoring (co-organized), <b>08:30–15:00, Room L6</b>
	<b>GD3.1/GMPV7.3/PS1.2/SM4.08</b> , Dynamics, structure, evolution and cyclicity of the plate-mantle system in the Earth and planetary bodies (including Augustus Love Medal Lecture) (co-organized), <b>08:30–15:00, Room D3</b>

<b>FR4, 15:30–17:00</b>	<b>SM4.02</b> , Imaging and inversion to explore the Earth's crust, <b>10:30–17:00, Room -2.21</b>
	<b>SM6.01/EMRP4.32/NH4.17</b> , Induced and Triggered Seismic Activity: Observation, Theory and Hazard Analysis (co-organized), <b>13:30–17:00, Room D1</b>
	<b>GD3.2/GMPV7.2/SM4.19/TS9.6</b> , Causes and consequences of mantle upwellings (co-organized), <b>15:30–17:00, Room D3</b>

## SM – Seismology (#EGU18SM) – PICO

### Monday, 09 April

<b>MO1</b> , 08:30–10:00	<b>SM7.02</b> , Metamaterial applications in seismology, <b>PICO spot 5b</b>
<b>MO3</b> , 13:30–15:00	<b>GD4.1/EMRP4.17/GMPV7.1/SM4.09</b> , Earth's core structure, dynamics and evolution: observations, models, experiments (co-organized), <b>PICO spot 3</b>
	<b>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</b> , The development of geoscientific modelling (co-organized), <b>PICO spot 5a</b>
<b>MO4</b> , 15:30–17:00	<b>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</b> , The development of geoscientific modelling (co-organized), <b>PICO spot 5a</b>

### Tuesday, 10 April

<b>TU1</b> , 08:30–10:00	<b>TS11.4/SM4.05</b> , Unravelling the Earth subsurface structure from seismic imaging and interpretation, geological observations, and numerical experiments (co-organized), <b>PICO spot 3</b>
<b>TU2</b> , 10:30–12:00	<b>TS3.4/SM2.05</b> , The role and mechanisms of fracturing and seismicity in the ductile realm (co-organized), <b>PICO spot 5b</b>

### Wednesday, 11 April

<b>WE2</b> , 10:30–12:00	<b>NH9.5/GMPV6.7/HS11.37/SM3.18/SSS13.61</b> , Single and multi-hazard risk assessment and mitigation in developing countries: Challenges and opportunities for innovation (co-organized), <b>PICO spot 1</b>
	<b>AS5.4/SM5.05</b> , International Monitoring System and On-site Verification for the CTBT, disaster risk reduction and Earth sciences (co-organized) (co-organized), <b>PICO spot 5a</b>
<b>WE3</b> , 13:30–15:00	<b>IE4.7/SSS13.74/BG1.43/ESSI1.10/NH9.21/SM1.10</b> , Citizen Science for Earth Systems in the Era of Big Data (co-organized), <b>PICO spot 4</b>
	<b>AS5.4/SM5.05</b> , International Monitoring System and On-site Verification for the CTBT, disaster risk reduction and Earth sciences (co-organized) (co-organized), <b>PICO spot 5a</b>
<b>WE4</b> , 15:30–17:00	<b>AS5.4/SM5.05</b> , International Monitoring System and On-site Verification for the CTBT, disaster risk reduction and Earth sciences (co-organized) (co-organized), <b>PICO spot 5a</b>

### Friday, 13 April

<b>FR3</b> , 13:30–15:00	<b>G3.6/SM2.20</b> , Transients detection and modeling in geophysical time series (co-organized), <b>PICO spot 1</b>
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## SM – Seismology (#EGU18SM) – Posters

### Monday, 09 April

<b>MO5</b> , 17:30–19:00	<b>SM7.01</b> , Advances in Computational Seismology (including SM Division Outstanding ECS Lecture), <b>Hall X2, X2.419–X2.442</b>
	<b>IE4.1/NP4.3/AS5.13/CL5.18/ESSI2.3/GD10.6/HS3.7/NH11.14/SM7.03</b> , Big data and machine learning in geosciences (co-organized), <b>Hall X3, X3.44–X3.75</b>
	<b>GM2.3/CR2.6/GI3.15/GMPV10.3/HS11.18/NH4.6/SM1.04/SSS13.22</b> , Environmental Seismology: Deciphering Earth's surface processes with seismic methods (co-organized), <b>Hall X1, X1.294–X1.312</b>
	<b>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</b> , COST Actions in Geosciences: breakthrough ideas, research activities and results (co-organized), <b>Hall X1, X1.1–X1.28</b>
	<b>TS7.3/GD2.6/GM4.6/SM2.08/SSP2.19</b> , Style of deformation and tectono-sedimentary evolution of fold-and-thrust belts and foreland basins : from nature to models (co-organized), <b>Hall X2, X2.199–X2.229</b>
	<b>GD8.4/EMRP4.21/SM2.13/SSP2.14</b> , Geodynamics of the Caucasian-Arabian Syntaxis and the East African Rift system (co-organized), <b>Hall X2, X2.288–X2.298</b>
	<b>TS6.3/GD6.4/SM2.15</b> , Formation and reactivation of small oceanic domains and hyperextended rift basins (co-organized), <b>Hall X2, X2.157–X2.175</b>
	<b>TS6.2/GD6.3/SM2.16</b> , From break-up to spreading: Multi-scale Observations and Models of end-of-rift, Continent-Ocean Transition, and Spreading Initiation (co-organized), <b>Hall X2, X2.135–X2.156</b>
	<b>EMRP1.8/SM2.19/TS3.11</b> , Contribution of high-pressure mineralogy and rheology to the understanding of the Earth dynamics – in memoriam of Harry W. Green II (co-organized), <b>Hall X2, X2.32–X2.49</b>
	<b>NH5.1/OS2.12/SM3.07</b> , Tsunami (co-organized), <b>Hall X1, X1.127–X1.181</b>
	<b>NH9.12/AS5.17/CL5.30/ESSI1.9/GI0.4/GMPV6.12/HS11.44/SM3.15/SSS13.66</b> , 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), <b>Hall X1, X1.216–X1.233</b>
	<b>NH9.11/GMPV6.11/HS11.43/SM3.19/SSS13.63</b> , Risk Management and risk hedging with examples from natural catastrophic events (co-organized), <b>Hall X1, X1.202–X1.215</b>
	<b>GD5.1/EMRP4.19/GMPV2.4/SM4.18/TS9.4</b> , Subduction dynamics from surface to deep mantle (co-organized), <b>Hall X2, X2.245–X2.287</b>
	<b>GMPV2.3/GD3.4/SM4.20</b> , 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), <b>Hall X2, X2.299–X2.325</b>
<b>GI1.4/GMPV10.1/NH11.9/SM5.04</b> , New frontiers of multiscale monitoring, analysis and modeling of environmental systems (co-organized), <b>Hall X1, X1.29–X1.53</b>	
<b>GMPV5.2/GI3.9/SM6.04</b> , Geophysical imaging of volcanoes (co-organized), <b>Hall X2, X2.393–X2.418</b>	

### Tuesday, 10 April

<b>TU5</b> , 17:30–19:00	<b>SM2.01/EMRP4.28/NH4.11</b> , Earthquake Source Processes under Rapid and Slow Deformation: Field Evidence, Seismic Imaging and Numerical Modeling (co-organized), <b>Hall X3, X3.1–X3.36</b>
	<b>SM5.01/NH4.16</b> , Ground translation, strain and rotation: New and improved instrumentation and applications (co-organized), <b>Hall X2, X2.453–X2.479</b>
	<b>TS9.2/GD5.7/GMPV8.4/SM1.09</b> , Subduction interface properties and large subduction earthquakes: integrating geological and geophysical observations, laboratory results, and numerical modeling (co-sponsored by JpGU) (co-organized), <b>Hall X2, X2.246–X2.273</b>
	<b>G3.5/GD2.7/SM2.18</b> , Monitoring and modelling of geodynamics and crustal deformation: progress during 37 years of the WEGENER initiative (co-organized), <b>Hall X3, X3.109–X3.121</b>
	<b>NH9.6/GMPV6.8/HS11.38/SM3.20</b> , Resilience and vulnerability assessments in natural hazards and risk analysis (co-organized), <b>Hall X1, X1.237–X1.260</b>
	<b>GD2.1/GMPV8.1/SM4.07</b> , Geodynamics of continental crust and upper mantle, and the nature of mantle discontinuities (co-organized), <b>Hall X2, X2.285–X2.298</b>
	<b>GD2.3/EMRP4.16/GMPV2.5/SM4.10</b> , Integrated geophysical-petrological modelling of the crust and upper mantle at multiple scales (co-organized), <b>Hall X2, X2.310–X2.327</b>
	<b>GD2.2/SM4.14</b> , Crust-Lithosphere-Asthenosphere Interplay, Deformation and Dynamics (co-sponsored by JpGU) (co-organized), <b>Hall X2, X2.299–X2.309</b>

### Wednesday, 11 April

<b>WE5</b> , 17:30–19:00	<b>SM1.01</b> , General Contributions on Earthquakes, Earth Structure, Seismology (including Beno Gutenberg Medal lecture), <b>Hall X2, X2.413–X2.459</b>
	<b>SM3.01/NH4.15</b> , Looking toward the next generation of Probabilistic Seismic Hazard Models (co-organized), <b>Hall X2, X2.460–X2.475</b>
	<b>EMRP1.3/GMPV3.5/NH3.17/SM2.04/TS2.4</b> , Rock Physics and geomechanical characterisation of rocks from the micro to macroscale: fabric, fractures and fluids (co-organized), <b>Hall X2, X2.68–X2.94</b>
	<b>TS2.1/SM2.06</b> , Faults and the deformation they cause: from outcrops to models (co-organized), <b>Hall X2, X2.121–X2.136</b>
	<b>TS8.1/GD7.5/SM2.09</b> , Structural evolution of continental and oceanic strike-slip plate boundaries (co-organized), <b>Hall X2, X2.208–X2.221</b>
	<b>NH3.2/SM3.10/SSS13.46</b> , Ground damage, slope failures and liquefaction in seismically or volcanically active environments (co-organized), <b>Hall X1, X1.128–X1.143</b>
	<b>NH9.10/GMPV6.10/HS11.42/SM3.16/SSS13.62</b> , Global and continental scale risk assessment for natural hazards: methods and practice (including Plinius Medal Lecture) (including NH Division Outstanding ECS Lecture) (co-organized), <b>Hall X1, X1.194–X1.213</b>
	<b>GD9.5/EMRP4.24/SM4.06</b> , Anisotropy from crust to core: Observations, models and implications (co-organized), <b>Hall X2, X2.288–X2.306</b>
	<b>GD8.2/CL4.21/CR8.4/EMRP4.20/SM4.11/TS1.7</b> , Unveiling the structure, evolution and influence of the Antarctic Lithosphere (co-organized), <b>Hall X2, X2.267–X2.287</b>
	<b>GD8.1/CR6.4/SM4.12/SSP2.18/TS1.6</b> , The Arctic connection - geodynamic, geologic and oceanographic development of the Arctic (co-organized), <b>Hall X2, X2.249–X2.266</b>

	<b>TS7.12/GD8.6/SM4.13</b> , The Alps and neighbouring mountain belts (Apennines, Dinarides, Carpathians): a multidisciplinary vision (AlpArray) (co-organized), <b>Hall X2, X2.171–X2.207</b>
	<b>GD7.1/GMPV8.7/SM4.15/TS9.12</b> , The structure and evolution of the oceanic lithosphere: interplay between magmatic, tectonic and hydrothermal processes at spreading ridges (co-organized), <b>Hall X2, X2.234–X2.248</b>
	<b>EMRP1.5/SM6.02/TS5.7</b> , Understanding fluid driven ruptures, from natural earthquakes to reservoirs induced seismicity (EMRP Division Outstanding ECS Lecture) (co-organized), <b>Hall X2, X2.95–X2.106</b>
	<b>GMPV5.1/NH2.11/SM6.03</b> , Volcano monitoring with instrument networks (co-organized), <b>Hall X2, X2.371–X2.412</b>
<b>Thursday, 12 April</b>	
<b>TH5, 17:30–19:00</b>	<b>SM4.01</b> , What lies beneath? Seismic tomography from crust to core, <b>Hall X2, X2.357–X2.376</b>
	<b>SM4.03</b> , Ambient seismic noise techniques: sources, monitoring, and imaging, <b>Hall X2, X2.377–X2.419</b>
	<b>GD11.2/SM1.08</b> , The Earth's thermal state from geophysics and geochemistry (co-organized), <b>Hall X2, X2.234–X2.242</b>
	<b>TS7.10/GMPV9.3/SM2.12/SSP2.17</b> , Tectonics and Geodynamics of the Mediterranean (co-organized), <b>Hall X2, X2.151–X2.170</b>
	<b>TS7.7/GD8.8/GMPV9.5/SM2.14</b> , Dynamics and Structures of the Tethyan realm: Collisions and back-arcs from the Mediterranean to the Himalayas (co-organized), <b>Hall X2, X2.83–X2.112</b>
	<b>NH4.2/SM3.06</b> , Seismic Hazard and Disaster Risk: Assessment, Testing, and Implementation (co-organized), <b>Hall X1, X1.216–X1.235</b>
	<b>NH6.1/AS5.21/CR7.3/GI2.17/HS11.33/SM3.12/SSS13.54</b> , Application of remote sensing and Earth-observation data in natural hazard and risk studies (co-organized), <b>Hall X1, X1.236–X1.270</b>
	<b>GI1.3/AS5.15/BG1.30/CL5.10/EMRP4.5/ESS1.6/HS11.12/SM5.03</b> , Environmental sensor network (co-organized), <b>Hall X1, X1.59–X1.66</b>
<b>Friday, 13 April</b>	
<b>FR5, 17:30–19:00</b>	<b>SM4.02</b> , Imaging and inversion to explore the Earth's crust, <b>Hall X2, X2.408–X2.464</b>
	<b>SM6.01/EMRP4.32/NH4.17</b> , Induced and Triggered Seismic Activity: Observation, Theory and Hazard Analysis (co-organized), <b>Hall X3, X3.1–X3.22</b>
	<b>SM8.01</b> , Real time seismology and earthquake early warning, <b>Hall X3, X3.23–X3.34</b>
	<b>TS5.4/SM1.06</b> , The 2016-2017 Central Italy seismic sequence: understanding earthquake faulting processes from Geodetic, Geological and Seismological data (co-organized), <b>Hall X2, X2.234–X2.251</b>
	<b>TS5.2/G3.9/GD2.8/NH4.9/SM2.07</b> , The Interplay between Earthquakes, the Seismic Cycle and Long-term Deformation: Models and Observations (including TS Division Outstanding ECS Lecture) (co-organized), <b>Hall X2, X2.198–X2.233</b>
	<b>TS5.5/SM2.11</b> , Earthquakes and segmentations along the Himalaya (co-organized), <b>Hall X2, X2.252–X2.271</b>
	<b>TS5.1/NH4.8/SM3.02</b> , Paleoseismicity, active faulting, surface deformation, and the implications on seismic hazard assessment (Fault2SHA) (co-organized), <b>Hall X2, X2.165–X2.197</b>

**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**

**NH4.3/SM3.04**, Statistical analysis of spatio-temporal properties of earthquake occurrence (co-organized), **Hall X1, X1.93–X1.113**

**NH6.2/CR7.4/G3.8/GI2.24/SM3.11/SSS13.55**, Imaging Geodesy with InSAR for geohazard and infrastructure monitoring (co-organized), **Hall X1, X1.189–X1.224**

**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**

**GD3.2/GMPV7.2/SM4.19/TS9.6**, Causes and consequences of mantle upwellings (co-organized), **Hall X2, X2.333–X2.346**