

## NH – Natural Hazards (#EGU18NH) – Orals

### Monday, 09 April

<b>MO1</b> , 08:30–10:00	<b>NH3.3/GI2.16/SSS13.47</b> , Characterizing and monitoring landslide processes using remote sensing and geophysics (Co-sponsored by JpGU) (co-organized), <b>08:30–12:00, Room L7</b>
	<b>NH5.1/OS2.12/SM3.07</b> , Tsunami (co-organized), <b>08:30–17:00, Room L6</b>
	<b>NH9.2</b> , Costs of Natural Hazards, <b>08:30–12:00, Room L8</b>
	<b>GM6.5/ERE2.4/HS5.16/NH1.23/SSS13.33</b> , Challenges and opportunities for sustainable soil conservation measures, torrent control works and sediment cascade management: from structure to basin scale (co-organized), <b>08:30–12:00, Room 0.96</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/SM1.1/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>NP4.1/CL5.29/NH11.20</b> , Time Series Analysis in the Geosciences - Concepts, Methods and Applications (co-organized), <b>08:30–10:00, Room M2</b>
<b>MO2</b> , 10:30–12:00	<b>NH3.3/GI2.16/SSS13.47</b> , Characterizing and monitoring landslide processes using remote sensing and geophysics (Co-sponsored by JpGU) (co-organized), <b>08:30–12:00, Room L7</b>
	<b>NH5.1/OS2.12/SM3.07</b> , Tsunami (co-organized), <b>08:30–17:00, Room L6</b>
	<b>NH9.2</b> , Costs of Natural Hazards, <b>08:30–12:00, Room L8</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>GM6.5/ERE2.4/HS5.16/NH1.23/SSS13.33</b> , Challenges and opportunities for sustainable soil conservation measures, torrent control works and sediment cascade management: from structure to basin scale (co-organized), <b>08:30–12:00, Room 0.96</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/SM1.1/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>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>NH3.7/GM7.4/SSS13.48</b> , Mechanics of Mass Flows (co-organized), <b>13:30–17:00, Room L7</b>
	<b>NH5.1/OS2.12/SM3.07</b> , Tsunami (co-organized), <b>08:30–17:00, Room L6</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>13:30–15:00, Room L8</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>GI2.1/AS5.2/BG1.29/CL5.27/NH1.19/PS5.4/ST4.9</b> , Atmospheric and Meteorological Instrumentation (co-organized), <b>13:30–15:00, Room 0.49</b>

	<b>US2</b> , The future of Earth and Planetary Observations from Space, <b>13:30–17:00, Room E1</b>
<b>MO4</b> , 15:30–17:00	<b>NH3.7/GM7.4/SSS13.48</b> , Mechanics of Mass Flows (co-organized), <b>13:30–17:00, Room L7</b>
	<b>NH5.1/OS2.12/SM3.07</b> , Tsunami (co-organized), <b>08:30–17:00, Room L6</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>15:30–17:00, Room L8</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>HS4.3/AS1.10/NH1.13</b> , Ensemble hydro-meteorological forecasting and predictive uncertainty estimation (co-organized), <b>15:30–17:00, Room 2.15</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>15:30–17:00, Room 0.31</b>
	<b>SC3.19/NH10.3</b> , Speed-dating: Research-match making (co-organized), <b>15:30–17:00, Room -2.31</b>
	<b>SSS2.3/GM6.11/NH11.2</b> , Agricultural terraces of the world. Their pedological, geomorphological and hydrological role (co-organized), <b>15:30–17:00, Room -2.32</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>15:30–17:00, Room 0.49</b>
	<b>US2</b> , The future of Earth and Planetary Observations from Space, <b>13:30–17:00, Room E1</b>
<b>Tuesday, 10 April</b>	
<b>TU1</b> , 08:30–10:00	<b>NH1.2/AS1.14/SSS13.43</b> , Atmospheric Electricity, Thunderstorms, Lightning and their effects (co-organized), <b>08:30–15:00, Room L6</b>
	<b>NH1.8/AS4.26</b> , Extreme heat events: processes, impacts and adaptation (co-organized), <b>08:30–10:00, Room L8</b>
	<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>
	<b>HS4.1/AS4.27/GM8.7/NH1.11</b> , Flash floods and associated hydro-geomorphic processes: observation, modelling and warning (co-organized), <b>08:30–10:00, Room B</b>
	<b>GMPV4.1/G3.7/GM7.7/NH2.8/TS10.3</b> , Volcanic processes: Tectonics, Deformation, Geodesy (co-organized), <b>08:30–15:00, Room D3</b>
	<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>GM7.1/NH11.19/SSS13.31</b> , Hillslope geomorphology, slope and fluvial denudation, and landscape responses to global environmental changes (co-organized), <b>08:30–10:00, Room 0.31</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>NH1.2/AS1.14/SSS13.43</b> , Atmospheric Electricity, Thunderstorms, Lightning and their effects (co-organized), <b>08:30–15:00, Room L6</b>

	<b>NH3.5/GI3.18</b> , Large slope instabilities: characterisation, dating, triggering, monitoring and modelling (Co-sponsored by JpGU) (co-organized), <b>10:30–12:00, Room L1</b>
	<b>NH9.7/CL3.12/HS11.39</b> , Urban Resilience Studies (co-organized), <b>10:30–12:00, Room L8</b>
	<b>GMPV4.1/G3.7/GM7.7/NH2.8/TS10.3</b> , Volcanic processes: Tectonics, Deformation, Geodesy (co-organized), <b>08:30–15:00, Room D3</b>
	<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>US1</b> , Past achievements and future challenges for the Geosciences (co-sponsored by AGU), <b>09:00–12:00, Room E1</b>
<b>TUL</b> , 12:15–13:15	<b>DM14/NH</b> , Division meeting for Natural Hazards (NH) (co-organized), <b>12:15–13:15, Room L6</b>
<b>TU3</b> , 13:30–15:00	<b>NH1.2/AS1.14/SSS13.43</b> , Atmospheric Electricity, Thunderstorms, Lightning and their effects (co-organized), <b>08:30–15:00, Room L6</b>
	<b>NH3.11/GM7.3/SSS13.50</b> , Rockfalls, rockslides and rock avalanches: Mechanics, dynamics, and new insights from novel data (co-organized), <b>13:30–17:00, Room L1</b>
	<b>NH9.9/AS5.20/GI1.9/HS11.41/SSS13.64</b> , 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), <b>13:30–15:00, Room L8</b>
	<b>IE3.3/GM2.2/CR2.5/GI3.13/GMPV10.4/HS6.9/NH6.10/SSS13.21</b> , High Resolution Topography in the Geosciences: Methods and Applications (co-sponsored by JpGU) (co-organized), <b>13:30–17:00, Room N2</b>
	<b>GMPV4.1/G3.7/GM7.7/NH2.8/TS10.3</b> , Volcanic processes: Tectonics, Deformation, Geodesy (co-organized), <b>08:30–15:00, Room D3</b>
	<b>GMPV6.6/ERE3.6/NH2.10</b> , Volcanic resources (co-organized), <b>13:30–15:00, Room -2.32</b>
	<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>NH1.7</b> , Addressing the challenge of compound events, multi-risk modelling and cross-risk assessment methods: Extremes, inter-dependencies, non-stationarities, impacts and vulnerability, <b>15:30–17:00, Room L6</b>
	<b>NH3.11/GM7.3/SSS13.50</b> , Rockfalls, rockslides and rock avalanches: Mechanics, dynamics, and new insights from novel data (co-organized), <b>13:30–17:00, Room L1</b>
	<b>NH9.3</b> , Human behavioral dynamics into Risk Assessment Modelling and Risk Reduction Strategies, <b>15:30–17:00, Room L8</b>
	<b>IE3.3/GM2.2/CR2.5/GI3.13/GMPV10.4/HS6.9/NH6.10/SSS13.21</b> , High Resolution Topography in the Geosciences: Methods and Applications (co-sponsored by JpGU) (co-organized), <b>13:30–17:00, Room N2</b>
	<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>NP7.3/NH5.8/OS2.13</b> , Wave-current interactions (co-organized), <b>15:30–17:00, Room M2</b>
	<b>GI2.6/AS4.20/EMRP4.7/NH11.11</b> , Geoscience applications of environmental radioactivity (co-organized), <b>15:30–17:00, Room 0.49</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>NH1.9/HS11.31</b> , Flood Risk Assessment and Management (co-organized), <b>08:30–12:00, Room L8</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>GMPV5.1/NH2.11/SM6.03</b> , Volcano monitoring with instrument networks (co-organized), <b>08:30–15:00, Room D3</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>GI2.9/AS5.22/NH6.14/PS5.6</b> , Calibration/Validation of Earth Satellite Measurements (co-organized), <b>08:30–12:00, Room M2</b>
	<b>GI1.5/EMRP4.6/ESSI2.11/NH11.10/PS5.5</b> , Data fusion, integration, correlation and advances of non-destructive testing methods and numerical developments for engineering and geosciences applications (co-organized), <b>08:30–12:00, Room 0.49</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>NH1.9/HS11.31</b> , Flood Risk Assessment and Management (co-organized), <b>08:30–12:00, Room L8</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>IE2.3/AS3.10/CL4.22/GMPV6.4/NH2.2</b> , Characterizing, understanding and predicting the radiative effects and the climatic impacts of major volcanic eruptions (co-organized), <b>10:30–12:00, Room N2</b>
	<b>ML25/NH</b> , Plinius Medal Lecture by Hannah L. Cloke (co-organized), <b>10:30–11:30, Room L6</b>
	<b>ML42/NH</b> , NH Division Outstanding ECS Lecture by Thomas Wahl (co-organized), <b>11:30–12:00, Room L6</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>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>GI2.9/AS5.22/NH6.14/PS5.6</b> , Calibration/Validation of Earth Satellite Measurements (co-organized), <b>08:30–12:00, Room M2</b>
	<b>SC2.18/NH10.2</b> , Serious games for Natural Hazards: understand the different roles in natural hazard prevention and management through a simple exercise (co-organized), <b>10:30–12:00, Room -2.91</b>
	<b>GI1.5/EMRP4.6/ESSI2.11/NH11.10/PS5.5</b> , Data fusion, integration, correlation and advances of non-destructive testing methods and numerical developments for engineering and geosciences applications (co-organized), <b>08:30–12:00, Room 0.49</b>
	<b>CL3.03/AS4.12/BG4.13/HS11.8/NH11.15/NP5.5/SSS13.13</b> , Earth System Prediction and Application (co-organized), <b>10:30–12:00, Room 0.94</b>
<b>G3.1/CL4.20/CR8.6/GD11.6/GM11.10/NH11.17</b> , Glacial isostatic adjustment and its role in the global earth system (co-organized), <b>10:30–12:00, Room -2.32</b>	

	<b>US4</b> , Fifty years of International Ocean Drilling, <b>08:30–12:00, Room E1</b>
<b>WE3</b> , 13:30–15:00	<b>NH1.6/AS4.14/HS11.30</b> , Coupled atmosphere-hydrological modeling for improved hydro-meteorological predictions (co-organized), <b>13:30–15:00, Room L8</b>
	<b>NH5.2</b> , Extreme seas and non-linear waves, <b>13:30–15:00, Room L4/5</b>
	<b>NH9.1</b> , Natural hazard event analyses for risk reduction and adaptation (including Sergey Soloviev Medal Lecture), <b>13:30–17:00, Room L6</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>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>GI2.4/NH6.8/PS4.9</b> , Sentinels for Science: Advances in Land dynamics and processes understanding (co-organized), <b>13:30–15:00, Room M2</b>
	<b>SSS9.11/NH9.18</b> , Urban sustainable development: resilience to environmental problems and natural hazards through eco-engineering solutions (co-organized), <b>13:30–17:00, Room -2.20</b>
	<b>SC1.18/CL6.02/GM12.3/HS12.5/NH10.4/TS11.13</b> , Building and maintaining R packages (co-organized), <b>13:30–15:00, Room -2.16</b>
<b>WE4</b> , 15:30–17:00	<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>NH5.3/GM11.9/SSP3.16</b> , Geological records of extreme wave events (co-organized), <b>15:30–17:00, Room L4/5</b>
	<b>NH9.1</b> , Natural hazard event analyses for risk reduction and adaptation (including Sergey Soloviev Medal Lecture), <b>13:30–17:00, Room L6</b>
	<b>ML29/NH</b> , Sergey Soloviev Medal Lecture by Giuseppe De Natale (co-organized), <b>15:30–16:30, Room L6</b>
	<b>GI2.3/NH6.9/PS6.5</b> , Sentinels for Science: Advances in Ocean science and Cryosphere research (co-organized), <b>15:30–17:00, Room M2</b>
	<b>AS3.4/BG4.10/NH7.4</b> , Unprecedented Wildfires and Smoke Plumes – 2017 and Beyond (co-organized), <b>15:30–17:00, Room 0.94</b>
	<b>SSS9.11/NH9.18</b> , Urban sustainable development: resilience to environmental problems and natural hazards through eco-engineering solutions (co-organized), <b>13:30–17:00, Room -2.20</b>
<b>WE5</b> , 17:30–19:00	<b>PCN3</b> , EGU Award Ceremony, <b>17:30–20:00, Room E1</b>
<b>WE6</b> , 19:00–20:00	<b>PCN3</b> , EGU Award Ceremony, <b>17:30–20:00, Room E1</b>
<b>Thursday, 12 April</b>	
<b>TH1</b> , 08:30–10:00	<b>NH3.6</b> , Prediction and forecasting of landslides, <b>08:30–12:00, Room L8</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>HS7.2/AS1.17/CL2.06/NH1.17/NP5.4</b> , Precipitation Modelling: uncertainty, variability, assimilation, ensemble simulation and downscaling (co-organized), <b>08:30–15:00, Room B</b>

	<b>GMPV4.4/NH2.6</b> , Magma ascent, degassing and eruptive dynamics: linking experiments, models and observations (co-organized), <b>08:30–12:00, Room G1</b>
	<b>GM3.2/NH3.18/SSS13.23</b> , Erosion and Sedimentation in Mountain Landscapes (co-organized), <b>08:30–12:00, Room D1</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>GI1.2/AS4.21/BG1.31/EMRP4.4/ERE5.6/HS11.11/NH8.8/OS4.11/SSS13.16</b> , Geoscience processes related to Fukushima and Chernobyl nuclear accidents (co-organized), <b>08:30–12:00, Room 0.49</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>NH3.6</b> , Prediction and forecasting of landslides, <b>08:30–12:00, Room L8</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>HS7.2/AS1.17/CL2.06/NH1.17/NP5.4</b> , Precipitation Modelling: uncertainty, variability, assimilation, ensemble simulation and downscaling (co-organized), <b>08:30–15:00, Room B</b>
	<b>GMPV4.4/NH2.6</b> , Magma ascent, degassing and eruptive dynamics: linking experiments, models and observations (co-organized), <b>08:30–12:00, Room G1</b>
	<b>SSS9.1/NH3.16</b> , Landslide early warning systems: monitoring systems, rainfall thresholds, warning models, performance evaluation and risk perception (co-organized), <b>10:30–12:00, Room -2.20</b>
	<b>GM3.2/NH3.18/SSS13.23</b> , Erosion and Sedimentation in Mountain Landscapes (co-organized), <b>08:30–12:00, Room D1</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>GI1.2/AS4.21/BG1.31/EMRP4.4/ERE5.6/HS11.11/NH8.8/OS4.11/SSS13.16</b> , Geoscience processes related to Fukushima and Chernobyl nuclear accidents (co-organized), <b>08:30–12:00, Room 0.49</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>NH1.1/AS4.24/HS11.26</b> , Extreme meteorological and hydrological events induced by severe weather and climate change (co-organized), <b>13:30–17:00, Room L4/5</b>
	<b>NH3.8/GI3.19/SSS13.49</b> , Fast flow-like landslides in alpine and volcanic environment. Advances on monitoring, modelling and risk management (co-organized), <b>13:30–15:00, Room L8</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>NH9.4</b> , Natural hazard impacts on technological systems and infrastructures, <b>13:30–15:00, Room -2.31</b>
	<b>HS7.2/AS1.17/CL2.06/NH1.17/NP5.4</b> , Precipitation Modelling: uncertainty, variability, assimilation, ensemble simulation and downscaling

	(co-organized), <b>08:30–15:00, Room B</b>
	<b>GM1.5/HS11.17/NH1.22/SSP3.18</b> , The importance of granular processes and segregation in geophysical flows: implications for landscape evolution and hazard analysis (co-organized), <b>13:30–15:00, Room D1</b>
	<b>GI3.5/EMRP4.11/HS11.14/NH11.12</b> , Innovative instrumentations, techniques, geophysical methods and models for near surface geophysics, cities and transport infrastructures (including GI Division Outstanding ECS Lecture) (co-organized), <b>13:30–17:00, Room 0.49</b>
	<b>GDB5</b> , Natural versus anthropogenic threats for life on Earth, <b>13:30–15:00, Room E1</b>
<b>TH4</b> , 15:30–17:00	<b>NH1.1/AS4.24/HS11.26</b> , Extreme meteorological and hydrological events induced by severe weather and climate change (co-organized), <b>13:30–17:00, Room L4/5</b>
	<b>NH3.10/CL2.21</b> , Effects of climate and environmental changes on landslides (co-organized), <b>15:30–17:00, Room L8</b>
	<b>NH7.1/SSS13.58</b> , Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized), <b>15:30–17:00, Room L6</b>
	<b>GMPV4.6/NH2.5</b> , Numerical simulations of volcanic and magmatic phenomena: model development, validation and application (co-organized), <b>15:30–17:00, Room G1</b>
	<b>GI3.5/EMRP4.11/HS11.14/NH11.12</b> , Innovative instrumentations, techniques, geophysical methods and models for near surface geophysics, cities and transport infrastructures (including GI Division Outstanding ECS Lecture) (co-organized), <b>13:30–17:00, Room 0.49</b>
	<b>GM11.4/NH11.16</b> , Coastal zone geomorphologic interactions: natural versus human-induced driving factors (co-organized), <b>15:30–17:00, Room G2</b>
<b>Friday, 13 April</b>	
<b>FR1</b> , 08:30–10:00	<b>NH3.1/HS2.3.10</b> , Landslide hydrology: from hydrology to pore water pressure and slope deformation (co-organized), <b>08:30–10:00, Room L7</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>NH8.2/GM7.5/HS11.35/SSS13.42</b> , Speleogenesis, Geomorphology and Hazards in Karst (co-organized), <b>08:30–12:00, Room L8</b>
	<b>GMPV6.1/AS3.32/CL5.22/NH2.7</b> , Volcanic Ash – Generation, Transport, Impacts and Applications (co-organized), <b>08:30–12:00, Room G1</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>GI3.3/EMRP4.10/NH9.23/PS4.10</b> , 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), <b>08:30–10:00, Room L3</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</b> , 10:30–12:00	<b>NH1.3/HS11.27</b> , Flood risk and uncertainty (co-organized), <b>10:30–12:00, Room L7</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>NH8.2/GM7.5/HS11.35/SSS13.42</b> , Speleogenesis, Geomorphology and Hazards in Karst (co-organized), <b>08:30–12:00, Room L8</b>
	<b>GMPV6.1/AS3.32/CL5.22/NH2.7</b> , Volcanic Ash – Generation, Transport, Impacts and Applications (co-organized), <b>08:30–12:00, Room G1</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>SC1.30/NH10.1</b> , Open-Source simulations: slope stability and failure in a hydrological catchment model (co-organized), <b>10:30–12:00, Room -2.85</b>
<b>FR3, 13:30–15:00</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>NH5.6/NP7.4/OS5.5</b> , Extreme Internal Wave Events: Generation, Transformation, Breaking and Interaction with the Bottom Topography (co-organized), <b>13:30–15:00, 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>NH8.1/HS5.13/SSS13.60</b> , Arsenic and other contaminants in soil and groundwater: interventions for source control and regulatory compliance (co-organized), <b>13:30–15:00, Room L8</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>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>GMPV5.3/AS3.9/NH6.11</b> , Satellite-based quantification and modelling of volcanic gas, aerosol and ash emission: dispersal and chemical evolution (co-organized), <b>13:30–15:00, Room G1</b>
<b>FR4, 15:30–17:00</b>	<b>NH5.4/AS4.29/CL3.10/HS11.32/OS2.11</b> , Natural Hazards and climate change impacts in coastal areas (co-organized), <b>15:30–17:00, Room L4/5</b>
	<b>IE2.4/NH5.7/CL4.18/GD11.7/OS2.14</b> , Sea-Level Changes from Minutes to Millennia (co-organized), <b>15:30–17:00, Room N2</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>



## NH – Natural Hazards (#EGU18NH) – PICO

### Monday, 09 April

<b>MO2</b> , 10:30–12:00	<b>NH1.5/AS4.28/HS11.29/SSS10.7</b> , Hazard Risk Management of Agroecosystems (co-organized), <b>PICO spot 4</b>
<b>MO3</b> , 13:30–15:00	<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>
<b>MO4</b> , 15:30–17:00	<b>IE3.4/TS11.7/GD10.3/GI3.17/GM2.13/GMPV10.7/HS11.3/NH6.4/SSP1.8</b> , Imaging techniques in laboratory modelling of geological processes (co-organized), <b>PICO spot 4</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>

### Tuesday, 10 April

<b>TU1</b> , 08:30–10:00	<b>GM6.1/NH9.19</b> , Geomorphic processes in coupled human and natural systems: past and present effects of human activity on landscapes (co-organized), <b>PICO spot 1</b>
<b>TU2</b> , 10:30–12:00	<b>IE3.1/GI0.3/BG1.35/CR2.8/ESSI4.4/GM2.12/NH6.5</b> , Close and Long Range Sensing of Environment (co-sponsored by ISPRS) (co-organized), <b>PICO spot 4</b>
<b>TU3</b> , 13:30–15:00	<b>HS4.5/NH1.14</b> , Operational forecasting and warning systems for natural hazards: challenges and innovation (co-organized), <b>PICO spot A</b>
	<b>PS5.1/GD1.3/GI2.22/NH6.12/ST1.10</b> , New mission concepts for planetary exploration (co-organized), <b>PICO spot 4</b>
	<b>GM11.5/HS10.11/NH8.6/OS2.9</b> , Combination hazard in estuaries and coasts (co-organized), <b>PICO spot 1</b>
<b>TU4</b> , 15:30–17:00	<b>IE3.2/NH6.3/CR2.10/EMRP4.34/GI2.10/GM2.15/GMPV5.5/HS11.54/SSS13.75</b> , The use of Remotely Piloted Aircraft Systems (RPAS) in monitoring applications and management of natural hazards (co-organized), <b>PICO spot 4</b>
	<b>HS4.5/NH1.14</b> , Operational forecasting and warning systems for natural hazards: challenges and innovation (co-organized), <b>PICO spot A</b>

### Wednesday, 11 April

<b>WE1</b> , 08:30–10:00	<b>HS7.3/CL2.19/ERE2.5/NH1.16/NP9.1</b> , Water, climate, food and health (co-organized), <b>PICO spot 5b</b>
<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>HS7.3/CL2.19/ERE2.5/NH1.16/NP9.1</b> , Water, climate, food and health (co-organized), <b>PICO spot 5b</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>HS2.4.3/NH1.25</b> , River flood dynamics and risk: processes, controls, consequences (co-organized), <b>PICO spot A</b>
	<b>SSP3.6/AS4.19/GM3.11/GMPV6.2/HS9.11/NH2.3/OS2.7</b> , Bedform dynamics and morphodynamics: from pyroclastic eruptions to deep sea turbidites (co-organized), <b>PICO spot 1</b>

<b>WE4</b> , 15:30–17:00	<b>SSP3.6/AS4.19/GM3.11/GMPV6.2/HS9.11/NH2.3/OS2.7</b> , Bedform dynamics and morphodynamics: from pyroclastic eruptions to deep sea turbidites (co-organized), <b>PICO spot 1</b>
<b>Thursday, 12 April</b>	
<b>TH1</b> , 08:30–10:00	<b>GI3.4/BG7.5/HS11.13/NH1.21</b> , Instrumentation & measurements for water systems (co-organized), <b>PICO spot 1</b>
	<b>GM2.1/GI3.12/NH11.3/SSS13.20</b> , Frontiers in Geomorphometry and Earth Surface Dynamics: Possibilities, Limitations and Perspectives (co-organized), <b>PICO spot 5b</b>
<b>TH3</b> , 13:30–15:00	<b>IE4.3/SSS13.73/AS5.19/BG1.20/ESSI1.8/HS11.4/NH11.13</b> , Geostatistical and statistical tools to perform the data fusion of large datasets in geo-engineering and environmental studies (co-organized), <b>PICO spot 4</b>
<b>TH4</b> , 15:30–17:00	<b>IE1.1/BG1.15/NH8.7/NP9.3</b> , Climate extremes, biosphere and society: impacts, remote sensing, and feedbacks (co-organized), <b>PICO spot 4</b>
	<b>HS7.7/NH1.18</b> , Hydrometeorologic variability: spatio-temporal scales and probability of extremes (co-organized), <b>PICO spot 5b</b>
	<b>AS4.22/NH1.24</b> , Emergency response with atmospheric dispersion models (co-organized), <b>PICO spot 5a</b>
<b>Friday, 13 April</b>	
<b>FR1</b> , 08:30–10:00	<b>SSS10.3/HS9.12/NH7.3</b> , Understanding, predicting and preventing post-fire hydrologic and erosive risks in fire-affected areas. (co-organized), <b>PICO spot 3</b>
<b>FR3</b> , 13:30–15:00	<b>NH3.9</b> , Uncertainty and quality evaluation in landslide hazard and risk assessment, <b>PICO spot 3</b>
	<b>NH6.7/GI2.23/SSS13.57</b> , Hazard and risk assessment of climate related impacts on Agricultural and Forested Ecosystems using Remote Sensing and modelling (co-organized), <b>PICO spot 4</b>

## NH – Natural Hazards (#EGU18NH) – Posters

### Monday, 09 April

<b>MO5</b> , 17:30–19:00	<b>NH3.3/GI2.16/SSS13.47</b> , Characterizing and monitoring landslide processes using remote sensing and geophysics (Co-sponsored by JpGU) (co-organized), <b>Hall X1, X1.75–X1.103</b>
	<b>NH3.7/GM7.4/SSS13.48</b> , Mechanics of Mass Flows (co-organized), <b>Hall X1, X1.104–X1.126</b>
	<b>NH5.1/OS2.12/SM3.07</b> , Tsunami (co-organized), <b>Hall X1, X1.127–X1.181</b>
	<b>NH9.2</b> , Costs of Natural Hazards, <b>Hall X1, X1.182–X1.201</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>NH9.12/AS5.17/CL5.30/ESSI1.9/GIO.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>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>HS4.3/AS1.10/NH1.13</b> , Ensemble hydro-meteorological forecasting and predictive uncertainty estimation (co-organized), <b>Hall A, A.83–A.105</b>
	<b>GI2.1/AS5.2/BG1.29/CL5.27/NH1.19/PS5.4/ST4.9</b> , Atmospheric and Meteorological Instrumentation (co-organized), <b>Hall X1, X1.54–X1.74</b>
	<b>GM6.5/ERE2.4/HS5.16/NH1.23/SSS13.33</b> , Challenges and opportunities for sustainable soil conservation measures, torrent control works and sediment cascade management: from structure to basin scale (co-organized), <b>Hall X2, X2.1–X2.17</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>GIO.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>SSS2.3/GM6.11/NH11.2</b> , Agricultural terraces of the world. Their pedological, geomorphological and hydrological role (co-organized), <b>Hall X3, X3.153–X3.169</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>NP4.1/CL5.29/NH11.20</b> , Time Series Analysis in the Geosciences - Concepts, Methods and Applications (co-organized), <b>Hall X3, X3.28–X3.43</b>	

### Tuesday, 10 April

<b>TU5</b> , 17:30–19:00	<b>NH1.2/AS1.14/SSS13.43</b> , Atmospheric Electricity, Thunderstorms, Lightning and their effects (co-organized), <b>Hall X1, X1.91–X1.134</b>
	<b>NH1.7</b> , Addressing the challenge of compound events, multi-risk modelling and cross-risk assessment methods: Extremes, inter-dependencies, non-stationarities, impacts and vulnerability, <b>Hall X1, X1.135–X1.153</b>

	<b>NH1.8/AS4.26</b> , Extreme heat events: processes, impacts and adaptation (co-organized), <b>Hall X1, X1.154–X1.167</b>
	<b>NH3.5/GI3.18</b> , Large slope instabilities: characterisation, dating, triggering, monitoring and modelling (Co-sponsored by JpGU) (co-organized), <b>Hall X1, X1.168–X1.188</b>
	<b>NH3.11/GM7.3/SSS13.50</b> , Rockfalls, rockslides and rock avalanches: Mechanics, dynamics, and new insights from novel data (co-organized), <b>Hall X1, X1.189–X1.212</b>
	<b>NH9.3</b> , Human behavioral dynamics into Risk Assessment Modelling and Risk Reduction Strategies, <b>Hall X1, X1.213–X1.236</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>NH9.7/CL3.12/HS11.39</b> , Urban Resilience Studies (co-organized), <b>Hall X1, X1.261–X1.275</b>
	<b>NH9.9/AS5.20/GI1.9/HS11.41/SSS13.64</b> , 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), <b>Hall X1, X1.276–X1.296</b>
	<b>IE3.3/GM2.2/CR2.5/GI3.13/GMPV10.4/HS6.9/NH6.10/SSS13.21</b> , High Resolution Topography in the Geosciences: Methods and Applications (co-sponsored by JpGU) (co-organized), <b>Hall X2, X2.51–X2.72</b>
	<b>HS4.1/AS4.27/GM8.7/NH1.11</b> , Flash floods and associated hydro-geomorphic processes: observation, modelling and warning (co-organized), <b>Hall A, A.135–A.157</b>
	<b>GMPV4.1/G3.7/GM7.7/NH2.8/TS10.3</b> , Volcanic processes: Tectonics, Deformation, Geodesy (co-organized), <b>Hall X2, X2.402–X2.438</b>
	<b>GMPV6.6/ERE3.6/NH2.10</b> , Volcanic resources (co-organized), <b>Hall X2, X2.439–X2.452</b>
	<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>NP7.3/NH5.8/OS2.13</b> , Wave-current interactions (co-organized), <b>Hall X4, X4.368–X4.381</b>
	<b>GI2.6/AS4.20/EMRP4.7/NH11.11</b> , Geoscience applications of environmental radioactivity (co-organized), <b>Hall X4, X4.302–X4.318</b>
	<b>GM7.1/NH11.19/SSS13.31</b> , Hillslope geomorphology, slope and fluvial denudation, and landscape responses to global environmental changes (co-organized), <b>Hall X2, X2.110–X2.124</b>
<b>Wednesday, 11 April</b>	
<b>WE5, 17:30–19:00</b>	<b>NH1.6/AS4.14/HS11.30</b> , Coupled atmosphere-hydrological modeling for improved hydro-meteorological predictions (co-organized), <b>Hall X1, X1.72–X1.85</b>
	<b>NH1.9/HS11.31</b> , Flood Risk Assessment and Management (co-organized), <b>Hall X1, X1.86–X1.115</b>
	<b>NH2.1/GI3.21/GMPV6.3</b> , Volcano Records and Quantification of Volcanic Hazards (co-organized), <b>Hall X1, X1.116–X1.127</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>NH5.2</b> , Extreme seas and non-linear waves, <b>Hall X1, X1.144–X1.161</b>
	<b>NH5.3/GM11.9/SSP3.16</b> , Geological records of extreme wave events (co-organized), <b>Hall X1, X1.162–X1.176</b>
	<b>NH9.1</b> , Natural hazard event analyses for risk reduction and adaptation (including Sergey Soloviev Medal Lecture), <b>Hall X1, X1.177–X1.193</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>IE2.3/AS3.10/CL4.22/GMPV6.4/NH2.2</b> , Characterizing, understanding and predicting the radiative effects and the climatic impacts of major volcanic eruptions (co-organized), <b>Hall X5, X5.84–X5.103</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>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>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>GI2.4/NH6.8/PS4.9</b> , Sentinels for Science: Advances in Land dynamics and processes understanding (co-organized), <b>Hall X4, X4.298–X4.313</b>
	<b>GI2.3/NH6.9/PS6.5</b> , Sentinels for Science: Advances in Ocean science and Cryosphere research (co-organized), <b>Hall X4, X4.282–X4.297</b>
	<b>GI2.9/AS5.22/NH6.14/PS5.6</b> , Calibration/Validation of Earth Satellite Measurements (co-organized), <b>Hall X4, X4.314–X4.331</b>
	<b>AS3.4/BG4.10/NH7.4</b> , Unprecedented Wildfires and Smoke Plumes – 2017 and Beyond (co-organized), <b>Hall X5, X5.63–X5.83</b>
	<b>SSS9.11/NH9.18</b> , Urban sustainable development: resilience to environmental problems and natural hazards through eco-engineering solutions (co-organized), <b>Hall X3, X3.238–X3.263</b>
	<b>GI1.5/EMRP4.6/ESSI2.11/NH11.10/PS5.5</b> , Data fusion, integration, correlation and advances of non-destructive testing methods and numerical developments for engineering and geosciences applications (co-organized), <b>Hall X4, X4.262–X4.281</b>
	<b>CL3.03/AS4.12/BG4.13/HS11.8/NH11.15/NP5.5/SSS13.13</b> , Earth System Prediction and Application (co-organized), <b>Hall X5, X5.302–X5.316</b>
	<b>G3.1/CL4.20/CR8.6/GD11.6/GM11.10/NH11.17</b> , Glacial isostatic adjustment and its role in the global earth system (co-organized), <b>Hall X3, X3.122–X3.136</b>

## Thursday, 12 April

<b>TH4</b> , 15:30–17:00	<b>GM1.5/HS11.17/NH1.22/SSP3.18</b> , The importance of granular processes and segregation in geophysical flows: implications for landscape evolution and hazard analysis (co-organized), <b>Hall X2, X2.1–X2.14</b>
	<b>GM3.2/NH3.18/SSS13.23</b> , Erosion and Sedimentation in Mountain Landscapes (co-organized), <b>Hall X2, X2.15–X2.47</b>
<b>TH5</b> , 17:30–19:00	<b>NH1.1/AS4.24/HS11.26</b> , Extreme meteorological and hydrological events induced by severe weather and climate change (co-organized), <b>Hall X1, X1.141–X1.161</b>

	<b>NH3.6</b> , Prediction and forecasting of landslides, <b>Hall X1, X1.162–X1.181</b>
	<b>NH3.8/GI3.19/SSS13.49</b> , Fast flow-like landslides in alpine and volcanic environment. Advances on monitoring, modelling and risk management (co-organized), <b>Hall X1, X1.182–X1.198</b>
	<b>NH3.10/CL2.21</b> , Effects of climate and environmental changes on landslides (co-organized), <b>Hall X1, X1.199–X1.215</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>NH7.1/SSS13.58</b> , Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized), <b>Hall X1, X1.271–X1.294</b>
	<b>NH9.4</b> , Natural hazard impacts on technological systems and infrastructures, <b>Hall X1, X1.295–X1.306</b>
	<b>GI2.2/AS1.4/NH1.20</b> , Weather and environmental observations and short term forecasting to increase safety and airport capacity (co-organized), <b>Hall X1, X1.67–X1.74</b>
	<b>GMPV4.6/NH2.5</b> , Numerical simulations of volcanic and magmatic phenomena: model development, validation and application (co-organized), <b>Hall X2, X2.341–X2.356</b>
	<b>GMPV4.4/NH2.6</b> , Magma ascent, degassing and eruptive dynamics: linking experiments, models and observations (co-organized), <b>Hall X2, X2.295–X2.319</b>
	<b>SSS9.1/NH3.16</b> , Landslide early warning systems: monitoring systems, rainfall thresholds, warning models, performance evaluation and risk perception (co-organized), <b>Hall X3, X3.115–X3.134</b>
	<b>GI2.5/AS5.18/EMRP4.13/NH6.13</b> , Unmanned aerial vehicle (UAV) as a new, emerging instrument in Geosciences (co-organized), <b>Hall X1, X1.75–X1.92</b>
	<b>GI1.2/AS4.21/BG1.31/EMRP4.4/ERE5.6/HS11.11/NH8.8/OS4.11/SSS13.16</b> , Geoscience processes related to Fukushima and Chernobyl nuclear accidents (co-organized), <b>Hall X1, X1.41–X1.58</b>
	<b>GI3.3/EMRP4.10/NH9.23/PS4.10</b> , 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), <b>Hall X1, X1.93–X1.107</b>
	<b>OS4.10/AS4.8/ERE1.7/GI2.13/NH11.7</b> , Benefits and Detriments of Geoengineering in the Ocean-Atmosphere System (co-organized), <b>Hall X4, X4.67–X4.72</b>
	<b>GI3.5/EMRP4.11/HS11.14/NH11.12</b> , Innovative instrumentations, techniques, geophysical methods and models for near surface geophysics, cities and transport infrastructures (including GI Division Outstanding ECS Lecture) (co-organized), <b>Hall X1, X1.108–X1.129</b>
<b>Friday, 13 April</b>	
<b>FR3</b> , 13:30–15:00	<b>HS7.2/AS1.17/CL2.06/NH1.17/NP5.4</b> , Precipitation Modelling: uncertainty, variability, assimilation, ensemble simulation and downscaling (co-organized), <b>Hall A, A.89–A.129</b>
<b>FR5</b> , 17:30–19:00	<b>NH1.3/HS11.27</b> , Flood risk and uncertainty (co-organized), <b>Hall X1, X1.49–X1.70</b>

<b>NH3.1/HS2.3.10</b> , Landslide hydrology: from hydrology to pore water pressure and slope deformation (co-organized), <b>Hall X1, X1.71–X1.92</b>
<b>NH4.3/SM3.04</b> , Statistical analysis of spatio-temporal properties of earthquake occurrence (co-organized), <b>Hall X1, X1.93–X1.113</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>Hall X1, X1.114–X1.144</b>
<b>NH5.4/AS4.29/CL3.10/HS11.32/OS2.11</b> , Natural Hazards and climate change impacts in coastal areas (co-organized), <b>Hall X1, X1.145–X1.164</b>
<b>NH5.6/NP7.4/OS5.5</b> , Extreme Internal Wave Events: Generation, Transformation, Breaking and Interaction with the Bottom Topography (co-organized), <b>Hall X1, X1.165–X1.177</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>Hall X1, X1.189–X1.224</b>
<b>NH8.1/HS5.13/SSS13.60</b> , Arsenic and other contaminants in soil and groundwater: interventions for source control and regulatory compliance (co-organized), <b>Hall X1, X1.225–X1.246</b>
<b>NH8.2/GM7.5/HS11.35/SSS13.42</b> , Speleogenesis, Geomorphology and Hazards in Karst (co-organized), <b>Hall X1, X1.247–X1.268</b>
<b>NH8.4/BG1.19/GI2.20/OS3.5</b> , Ecosystem-based approaches to coastal Disaster Risk Reduction: new tools for numerical modelling and monitoring using Remote Sensing techniques (co-organized), <b>Hall X1, X1.269–X1.275</b>
<b>IE2.4/NH5.7/CL4.18/GD11.7/OS2.14</b> , Sea-Level Changes from Minutes to Millennia (co-organized), <b>Hall X1, X1.178–X1.188</b>
<b>GMPV6.1/AS3.32/CL5.22/NH2.7</b> , Volcanic Ash – Generation, Transport, Impacts and Applications (co-organized), <b>Hall X2, X2.396–X2.407</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>
<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>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>GMPV5.3/AS3.9/NH6.11</b> , Satellite-based quantification and modelling of volcanic gas, aerosol and ash emission: dispersal and chemical evolution (co-organized), <b>Hall X2, X2.378–X2.387</b>
<b>GM11.4/NH11.16</b> , Coastal zone geomorphologic interactions: natural versus human-induced driving factors (co-organized), <b>Hall X2, X2.119–X2.136</b>