

## GI – Geosciences Instrumentation & Data Systems (#EGU17GI) – Orals

### Monday, 24 April

<b>MO1</b> , 08:30–10:00	<b>GI3.5/EMRP4.36</b> , Innovative instrumentation and data processing methods in near surface geophysics (co-organized), <b>08:30–10:00, Room 0.49</b>
	<b>SM5.1/ESSI2.10/GI1.6</b> , Integrated research infrastructures and services in geosciences (co-organized), <b>08:30–12:00, Room 0.96</b>
<b>MO2</b> , 10:30–12:00	<b>GI1.4/GMPV5.4/NH6.12/SM5.6</b> , New frontiers of multiscale monitoring, analysis and modeling of environmental systems (co-organized), <b>10:30–12:00, Room 0.49</b>
	<b>SM5.1/ESSI2.10/GI1.6</b> , Integrated research infrastructures and services in geosciences (co-organized), <b>08:30–12:00, Room 0.96</b>
<b>MOL</b> , 12:15–13:15	<b>UMI0</b> , Plenary, <b>12:15–13:15, Room E1</b>
<b>MO3</b> , 13:30–15:00	<b>GI3.1</b> , Civil Engineering Applications of Ground Penetrating Radar, <b>13:30–17:00, Room 0.49</b>
	<b>ML38/GI</b> , GI Division Outstanding ECS Award Lecture by Fabio Tosti (co-organized), <b>13:30–14:30, Room 0.49</b>
	<b>GM1.5/CR2.6/GI3.14/NH4.10/SM4.7</b> , Environmental Seismology: Deciphering Earth's surface processes with seismic methods (co-organized), <b>13:30–15:00, Room N1</b>
<b>MO4</b> , 15:30–17:00	<b>GI3.1</b> , Civil Engineering Applications of Ground Penetrating Radar, <b>13:30–17:00, Room 0.49</b>

### Tuesday, 25 April

<b>TU1</b> , 08:30–10:00	<b>GI0.1</b> , Open Session on Geosciences Instrumentation and Methods (including Christiaan Huygens Medal Lecture), <b>08:30–11:30, Room L2</b>
<b>TU2</b> , 10:30–12:00	<b>GI0.1</b> , Open Session on Geosciences Instrumentation and Methods (including Christiaan Huygens Medal Lecture), <b>08:30–11:30, Room L2</b>
	<b>ML11/GI</b> , Christiaan Huygens Medal Lecture by Riccardo Lanari (co-organized), <b>10:30–11:30, Room L2</b>
<b>TUL</b> , 12:15–13:15	<b>DM10/GI</b> , Division meeting for Geosciences Instrumentation and Data Systems (GI) (co-organized), <b>12:15–13:15, Room M2</b>
<b>TU3</b> , 13:30–15:00	<b>GI2.1/AS4.42/BG9.21/CL5.16/NH6.10/PS1.6/ST3.7</b> , Atmospheric and Meteorological Instrumentation (co-organized), <b>13:30–17:00, Room 0.96</b>
	<b>EMRP1.3/GI3.16/GMPV6.1/SM2.4/TS5.6</b> , Earthquakes: from slow to fast, from the field to the laboratory (incl. Division Outstanding ECS Award Lecture by Marie Violay) (co-organized), <b>13:30–17:00, Room 0.31</b>
<b>TU4</b> , 15:30–17:00	<b>GI2.1/AS4.42/BG9.21/CL5.16/NH6.10/PS1.6/ST3.7</b> , Atmospheric and Meteorological Instrumentation (co-organized), <b>13:30–17:00, Room 0.96</b>
	<b>AS1.7/GI2.9</b> , Atmospheric applications in microwave radiometry (co-organized), <b>15:30–17:00, Room 0.88</b>
	<b>EMRP1.3/GI3.16/GMPV6.1/SM2.4/TS5.6</b> , Earthquakes: from slow to fast, from the field to the laboratory (incl. Division Outstanding ECS Award Lecture by Marie Violay) (co-organized), <b>13:30–17:00, Room 0.31</b>

### Wednesday, 26 April

<b>WE1</b> , 08:30–10:00	<b>GI1.1/EMRP4.16/SSS12.25</b> , Applications of Data, Methods and Models in Geosciences (co-organized), <b>08:30–10:00, Room D2</b>
	<b>GMPV5.1/G6.4/GD3.5/GI1.11/NH2.8/SM5.10</b> , Volcano monitoring with instrument networks (co-organized), <b>08:30–17:00, Room D1</b>

	<b>NH3.3/GI3.11/SSS2.27</b> , Characterizing and monitoring landslide processes using remote sensing and geophysics (co-organized), <b>08:30–15:00, Room L6</b>
<b>WE2</b> , 10:30–12:00	<b>GI3.2/EMRP4.17/ESSI1.12/NH6.11</b> , Sensing techniques, geophysical methods, sensor network architectures and data analysis methods for critical and transport infrastructures monitoring and diagnostics (co-organized), <b>10:30–12:00, Room D2</b>
	<b>GMPV5.1/G6.4/GD3.5/GI1.11/NH2.8/SM5.10</b> , Volcano monitoring with instrument networks (co-organized), <b>08:30–17:00, Room D1</b>
	<b>NH3.3/GI3.11/SSS2.27</b> , Characterizing and monitoring landslide processes using remote sensing and geophysics (co-organized), <b>08:30–15:00, Room L6</b>
<b>WE3</b> , 13:30–15:00	<b>GI3.3/EMRP4.35/ESSI1.10/NH9.20</b> , From Artefact to Historical Site : Geoscience and Non-Invasive Methods for the Study and Conservation of Cultural Heritage (co-organized), <b>13:30–15:00, Room M2</b>
	<b>GMPV5.1/G6.4/GD3.5/GI1.11/NH2.8/SM5.10</b> , Volcano monitoring with instrument networks (co-organized), <b>08:30–17:00, Room D1</b>
	<b>AS3.11/GI2.7</b> , MAX-DOAS and other scattered light DOAS systems: instruments, techniques and applications (co-organized), <b>13:30–15:00, Room 0.11</b>
	<b>NH3.3/GI3.11/SSS2.27</b> , Characterizing and monitoring landslide processes using remote sensing and geophysics (co-organized), <b>08:30–15:00, Room L6</b>
<b>WE4</b> , 15:30–17:00	<b>GMPV5.1/G6.4/GD3.5/GI1.11/NH2.8/SM5.10</b> , Volcano monitoring with instrument networks (co-organized), <b>08:30–17:00, Room D1</b>
<b>Thursday, 27 April</b>	
<b>TH1</b> , 08:30–10:00	<b>GI2.4/NH6.5</b> , Sentinel 1 and 2 for Science (co-organized), <b>08:30–10:00, Room D2</b>
	<b>EMRP2.1/ESSI1.15/GI1.12</b> , Unveiling hidden features of the geomagnetic field: measurements, data analysis and modelling (co-organized), <b>08:30–10:00, Room -2.31</b>
	<b>EMRP1.2/GI3.18/SM2.5</b> , Multi-scale measurements of the Earth's properties and imaging techniques: from laboratory to large-scale Earth phenomena (co-organized), <b>08:30–10:00, Room -2.91</b>
<b>TH2</b> , 10:30–12:00	<b>GI2.3/ESSI2.11/G5.4/NH6.7</b> , Scientific Exploitation of Copernicus Sentinels (co-organized), <b>10:30–12:15, Room D2</b>
<b>TH3</b> , 13:30–15:00	<b>GI3.9/BG9.22/CR2.5/ESSI1.11/GM3.8</b> , Close-Range Sensing of Environment and 3D Point Clouds in Geosciences (co-organized), <b>13:30–15:00, Room 0.96</b>
	<b>IE4.2/NH9.11/GI1.5/GMPV5.7/SM5.11/TS5.8</b> , The GEO Geohazards Supersite initiative: improving science uptake in Disaster Risk Reduction (co-organized), <b>13:30–15:00, Room L2</b>
	<b>GM3.2/GI2.12/GMPV6.4/HS11.13/NH8.9/SSS12.24</b> , High Resolution Topography in the Geosciences: Methods and Applications (co-organized), <b>13:30–17:00, Room L3</b>
	<b>SSP1.3/EMRP4.37/GI3.7</b> , Achievements and perspectives in scientific ocean and continental drilling (co-organized), <b>13:30–17:00, Room 1.85</b>
<b>TH4</b> , 15:30–17:00	<b>GM3.2/GI2.12/GMPV6.4/HS11.13/NH8.9/SSS12.24</b> , High Resolution Topography in the Geosciences: Methods and Applications (co-organized), <b>13:30–17:00, Room L3</b>

	<b>SSP1.3/EMRP4.37/GI3.7</b> , Achievements and perspectives in scientific ocean and continental drilling (co-organized), <b>13:30–17:00, Room 1.85</b>
	<b>EMRP1.1/ERE1.10/GI3.15</b> , Evaluation of coupled reservoir processes: laboratory experiments and numerical modelling (co-organized), <b>15:30–17:00, Room 0.31</b>
<b>Friday, 28 April</b>	
<b>FR1</b> , 08:30–10:00	<b>GI1.2/AS4.47/BG9.20/ERE1.8/HS11.9/NH8.4/OS4.11/SSS8.12</b> , Geoscience processes related to Fukushima and Chernobyl nuclear accidents (co-organized), <b>08:30–12:10, Room L8</b>
	<b>EMRP3.2/GI1.7</b> , Geomagnetic field variations in ancient times: new paleo/archeomagnetic data and models (co-organized), <b>08:30–10:00, Room 0.31</b>
	<b>NH6.1/CR2.7/GI2.8/HS11.29/SM5.7/SSS12.20</b> , Application of remote sensing and Earth-observation data in natural hazard and risk studies (co-organized), <b>08:30–12:00, Room L6</b>
<b>FR2</b> , 10:30–12:00	<b>GI1.2/AS4.47/BG9.20/ERE1.8/HS11.9/NH8.4/OS4.11/SSS8.12</b> , Geoscience processes related to Fukushima and Chernobyl nuclear accidents (co-organized), <b>08:30–12:10, Room L8</b>
	<b>NH6.1/CR2.7/GI2.8/HS11.29/SM5.7/SSS12.20</b> , Application of remote sensing and Earth-observation data in natural hazard and risk studies (co-organized), <b>08:30–12:00, Room L6</b>
<b>FR3</b> , 13:30–15:00	<b>GI2.6/AS4.48/EMRP4.5/NH8.7</b> , Geoscience applications of environmental radioactivity (co-organized), <b>13:30–15:00, Room L8</b>
	<b>NH6.3/AS4.43/GI2.10/HS11.31/SM5.8/SSS12.21</b> , The use of Remotely Piloted Aircraft Systems (RPAS) in monitoring applications and management of natural hazards (co-organized), <b>13:30–15:00, Room L6</b>

## GI – Geosciences Instrumentation & Data Systems (#EGU17GI) – PICOs

### Monday, 24 April

<b>MO4</b> , 15:30–17:00	<b>TS8.1/G6.3/GI2.14/GM3.6/SSP1.4.</b> , Digital mapping and 3D visualization approaches in the Earth Sciences (co-organized), <b>PICO spot 5a</b>
--------------------------	--

### Wednesday, 26 April

<b>WE1</b> , 08:30–10:00	<b>PS1.2/GI2.15</b> , Instrument Design and Development (co-organized), <b>PICO spot 5a</b>
--------------------------	---

### Friday, 28 April

<b>FR2</b> , 10:30–12:00	<b>GM3.1/GI3.17/NH4.11</b> , Frontiers in Geomorphometry and Earth Surface Dynamics: Possibilities, Limitations and Perspectives (co-organized), <b>PICO spot 5b</b>
--------------------------	--

<b>FR3</b> , 13:30–15:00	<b>SSS12.6/GI2.13/GM3.9</b> , Unmanned Aerial Systems: Platforms, Sensors and Applications in Soil, Agriculture and Geosciences (co-organized), <b>PICO spot 5b</b>
--------------------------	---

## GI – Geosciences Instrumentation & Data Systems (#EGU17GI) – Posters

### Monday, 24 April

<b>MO5</b> , 17:30–19:00	<b>GI1.4/GMPV5.4/NH6.12/SM5.6</b> , New frontiers of multiscale monitoring, analysis and modeling of environmental systems (co-organized), <b>Hall X4, X4.132–X4.148</b>
	<b>GI3.5/EMRP4.36</b> , Innovative instrumentation and data processing methods in near surface geophysics (co-organized), <b>Hall X4, X4.149–X4.165</b>
	<b>SM5.1/ESSI2.10/GI1.6</b> , Integrated research infrastructures and services in geosciences (co-organized), <b>Hall X3, X3.48–X3.84</b>
	<b>GM1.5/CR2.6/GI3.14/NH4.10/SM4.7</b> , Environmental Seismology: Deciphering Earth's surface processes with seismic methods (co-organized), <b>Hall X2, X2.54–X2.71</b>

### Tuesday, 25 April

<b>TU5</b> , 17:30–19:00	<b>GI0.1</b> , Open Session on Geosciences Instrumentation and Methods (including Christiaan Huygens Medal Lecture), <b>Hall X4, X4.166–X4.175</b>
	<b>GI2.1/AS4.42/BG9.21/CL5.16/NH6.10/PS1.6/ST3.7</b> , Atmospheric and Meteorological Instrumentation (co-organized), <b>Hall X4, X4.176–X4.190</b>
	<b>GI3.1</b> , Civil Engineering Applications of Ground Penetrating Radar, <b>Hall X4, X4.191–X4.214</b>
	<b>GI3.6/EMRP4.18/ERE5.9/SSP1.7/SSS12.27</b> , Geoscientific Underground Labs and Test Sites (co-organized), <b>Hall X4, X4.215–X4.224</b>
	<b>AS1.7/GI2.9</b> , Atmospheric applications in microwave radiometry (co-organized), <b>Hall X5, X5.229–X5.243</b>
	<b>EMRP1.3/GI3.16/GMPV6.1/SM2.4/TS5.6</b> , Earthquakes: from slow to fast, from the field to the laboratory (incl. Division Outstanding ECS Award Lecture by Marie Violay) (co-organized), <b>Hall X2, X2.90–X2.112</b>

### Wednesday, 26 April

<b>WE5</b> , 17:30–19:00	<b>GI1.1/EMRP4.16/SSS12.25</b> , Applications of Data, Methods and Models in Geosciences (co-organized), <b>Hall X4, X4.258–X4.273</b>
	<b>GI1.3/AS4.41/CL5.17/EMRP4.39/HS11.7/NH6.9/SM5.9</b> , Environmental sensor networks (co-organized), <b>Hall X4, X4.274–X4.281</b>
	<b>GI3.2/EMRP4.17/ESSI1.12/NH6.11</b> , Sensing techniques, geophysical methods, sensor network architectures and data analysis methods for critical and transport infrastructures monitoring and diagnostics (co-organized), <b>Hall X4, X4.282–X4.302</b>
	<b>GI3.3/EMRP4.35/ESSI1.10/NH9.20</b> , From Artefact to Historical Site : Geoscience and Non-Invasive Methods for the Study and Conservation of Cultural Heritage (co-organized), <b>Hall X4, X4.303–X4.320</b>
	<b>GI3.8/HS11.10/SSS12.19</b> , Broadband and multi/hyper-spectral IR sensing techniques for the retrieval of land surface temperature and emissivity; IR sensing for environmental studies (i.e geo-hazards, agriculture, atmosphere and urban) (co-organized), <b>Hall X4, X4.321–X4.330</b>
	<b>NH9.9/GI1.8</b> , Monitoring and modelling of dangerous phenomena, and innovative techniques for hazard evaluation and risk mitigation (co-organized), <b>Hall X3, X3.220–X3.230</b>
	<b>GMPV5.1/G6.4/GD3.5/GI1.11/NH2.8/SM5.10</b> , Volcano monitoring with instrument networks (co-organized), <b>Hall X2, X2.441–X2.480</b>
	<b>AS3.11/GI2.7</b> , MAX-DOAS and other scattered light DOAS systems: instruments, techniques and applications (co-organized), <b>Hall X5, X5.379–X5.406</b>

**GM3.2/GI2.12/GMPV6.4/HS11.13/NH8.9/SSS12.24**, High Resolution Topography in the Geosciences: Methods and Applications (co-organized), **Hall X2, X2.95–X2.122**

**NH3.3/GI3.11/SSS2.27**, Characterizing and monitoring landslide processes using remote sensing and geophysics (co-organized), **Hall X3, X3.137–X3.160**

## Thursday, 27 April

**TH5, 17:30–19:00**

**GI1.2/AS4.47/BG9.20/ERE1.8/HS11.9/NH8.4/OS4.11/SSS8.12**, Geoscience processes related to Fukushima and Chernobyl nuclear accidents (co-organized), **Hall X4, X4.234–X4.252**

**GI2.3/ESSI2.11/G5.4/NH6.7**, Scientific Exploitation of Copernicus Sentinels (co-organized), **Hall X4, X4.253–X4.266**

**GI2.4/NH6.5**, Sentinel 1 and 2 for Science (co-organized), **Hall X4, X4.267–X4.282**

**GI2.6/AS4.48/EMRP4.5/NH8.7**, Geoscience applications of environmental radioactivity (co-organized), **Hall X4, X4.283–X4.299**

**GI3.9/BG9.22/CR2.5/ESSI1.11/GM3.8**, Close-Range Sensing of Environment and 3D Point Clouds in Geosciences (co-organized), **Hall X4, X4.300–X4.315**

**IE4.2/NH9.11/GI1.5/GMPV5.7/SM5.11/TS5.8**, The GEO Geohazards Supersite initiative: improving science uptake in Disaster Risk Reduction (co-organized), **Hall X3, X3.1–X3.19**

**EMRP3.2/GI1.7**, Geomagnetic field variations in ancient times: new paleo/archeomagnetic data and models (co-organized), **Hall X2, X2.155–X2.171**

**EMRP2.1/ESSI1.15/GI1.12**, Unveiling hidden features of the geomagnetic field: measurements, data analysis and modelling (co-organized), **Hall X2, X2.144–X2.154**

**SSP1.3/EMRP4.37/GI3.7**, Achievements and perspectives in scientific ocean and continental drilling (co-organized), **Hall X2, X2.1–X2.29**

**EMRP1.1/ERE1.10/GI3.15**, Evaluation of coupled reservoir processes: laboratory experiments and numerical modelling (co-organized), **Hall X2, X2.117–X2.132**

**EMRP1.2/GI3.18/SM2.5**, Multi-scale measurements of the Earth's properties and imaging techniques: from laboratory to large-scale Earth phenomena (co-organized), **Hall X2, X2.133–X2.143**

## Friday, 28 April

**FR5, 17:30–19:00**

**NH6.1/CR2.7/GI2.8/HS11.29/SM5.7/SSS12.20**, Application of remote sensing and Earth-observation data in natural hazard and risk studies (co-organized), **Hall X3, X3.210–X3.232**

**NH6.3/AS4.43/GI2.10/HS11.31/SM5.8/SSS12.21**, The use of Remotely Piloted Aircraft Systems (RPAS) in monitoring applications and management of natural hazards (co-organized), **Hall X3, X3.243–X3.258**