

## BG – Biogeosciences (#EGU18BG) – Orals

### Monday, 09 April

<b>MO1</b> , 08:30–10:00	<b>BG1.1</b> , Application of stable isotopes in Biogeosciences (co-organized by the European Association of Geochemistry (EAG), <b>08:30–10:00, Room 2.20</b>
	<b>BG7.2</b> , Natural organic matter in aquatic systems: methods, fractions and interactions in natural and engineered systems, <b>08:30–12:00, Room 2.31</b>
	<b>IE4.5/AS5.14/BG1.22/CL5.26/EMRP4.35/ESSI2.12/GD10.7/GI1.7</b> , Information extraction from satellite observations using data-driven methods (co-organized), <b>08:30–10:00, 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>MO2</b> , 10:30–12:00	<b>BG1.9</b> , Terrestrial and aquatic ecosystem disturbance – effects on GHG budgets, <b>10:30–12:00, Room 2.20</b>
	<b>BG2.3</b> , Plant traits and biogeochemical cycles, including optimality, acclimation and adaptation in land ecosystem models (co-organized), <b>10:30–12:00, Room -2.16</b>
	<b>BG7.2</b> , Natural organic matter in aquatic systems: methods, fractions and interactions in natural and engineered systems, <b>08:30–12:00, Room 2.31</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>PS4.2/BG8.2</b> , Planetary Habitability: From Early Planetary Evolution to the Formation of Life (co-organized), <b>10:30–12:00, Room L1</b>
<b>MO3</b> , 13:30–15:00	<b>BG1.2/AS4.34</b> , Stable isotopes and novel tracers in biogeochemical and atmospheric research (co-organized), <b>13:30–17:00, Room 2.20</b>
	<b>BG5.1</b> , Methane in the marine and terrestrial realm: geo(physical) aspects, biogeochemical cycling, microbial metabolisms, environmental impacts and climate change, <b>13:30–17:00, Room 2.31</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>SC1.7/BG2.45/SSS13.80</b> , Current techniques to measure and analyse redox potentials in wetland soils and sediments (co-organized), <b>13:30–15:00, Room -2.31</b>
<b>MO4</b> , 15:30–17:00	<b>BG1.2/AS4.34</b> , Stable isotopes and novel tracers in biogeochemical and atmospheric research (co-organized), <b>13:30–17:00, Room 2.20</b>
	<b>BG5.1</b> , Methane in the marine and terrestrial realm: geo(physical) aspects, biogeochemical cycling, microbial metabolisms, environmental impacts and climate change, <b>13:30–17:00, Room 2.31</b>

### Tuesday, 10 April

<b>TU1</b> , 08:30–10:00	<b>BG1.3</b> , Mercury cycling in the environment – sources, processes, impacts, and archives from local to global scales, <b>08:30–12:00, Room 2.31</b>
	<b>BG1.24/GI2.19</b> , Remote Sensing and its applications in the Biogeosciences with the COST OPTIMISE Action and MDPI Journal Sensors. (co-organized), <b>08:30–09:45, Room 2.20</b>
	<b>IE2.7/AS3.6/BG1.10/CL2.24/CR8.7</b> , Atmosphere – Cryosphere interaction with focus on transport, deposition and effects of dust, black carbon, and

	other aerosols (co-organized), <b>08:30–12:00, Room N2</b>
	<b>AS3.17/BG1.28</b> , Global Carbon Observations and their Use for Research and Decision-Making (co-organized), <b>08:30–10:00, Room 0.88</b>
	<b>SSS4.1/BG2.38</b> , Spatial and temporal distribution of biodiversity, functions and activity of soil organisms in terrestrial ecosystems (co-organized), <b>08:30–15:00, Room K2</b>
	<b>GMPV3.3/BG5.4/TS10.5</b> , From hydrothermal systems to mud volcanoes: structure, evolution and monitoring of active and fossile piercements (co-organized), <b>08:30–10:00, Room -2.21</b>
<b>TU2</b> , 10:30–12:00	<b>BG1.3</b> , Mercury cycling in the environment – sources, processes, impacts, and archives from local to global scales, <b>08:30–12:00, Room 2.31</b>
	<b>BG3.1/OS3.6</b> , Biogeochemistry of coastal seas and continental shelves (including Vladimir Ivanovich Vernadsky Medal Lecture) (co-organized), <b>10:30–17:00, Room C</b>
	<b>IE2.7/AS3.6/BG1.10/CL2.24/CR8.7</b> , Atmosphere – Cryosphere interaction with focus on transport, deposition and effects of dust, black carbon, and other aerosols (co-organized), <b>08:30–12:00, Room N2</b>
	<b>GM3.3/BG2.8/CL4.27/SSS3.4</b> , Chemical weathering, soil formation, and organic carbon mobilization across spatial and temporal scales (co-organized), <b>10:30–12:00, Room 0.31</b>
	<b>SSS4.1/BG2.38</b> , Spatial and temporal distribution of biodiversity, functions and activity of soil organisms in terrestrial ecosystems (co-organized), <b>08:30–15:00, Room K2</b>
<b>TU3</b> , 13:30–15:00	<b>BG1.6</b> , Interdisciplinary session on the global Phosphorus cycle, <b>13:30–15:00, Room 2.31</b>
	<b>BG1.23/GI2.15</b> , Remote Sensing for forest applications (co-organized), <b>13:30–17:00, Room 2.20</b>
	<b>BG3.1/OS3.6</b> , Biogeochemistry of coastal seas and continental shelves (including Vladimir Ivanovich Vernadsky Medal Lecture) (co-organized), <b>10:30–17:00, Room C</b>
	<b>ML33/BG</b> , Vladimir Ivanovich Vernadsky Medal Lecture by Antje Boetius (co-organized), <b>14:00–15:00, Room C</b>
	<b>OS3.4/BG1.39</b> , Effects of Anthropogenic Pressure on Marine Ecosystems (co-organized), <b>13:30–17:00, Room N1</b>
	<b>SSS4.1/BG2.38</b> , Spatial and temporal distribution of biodiversity, functions and activity of soil organisms in terrestrial ecosystems (co-organized), <b>08:30–15:00, Room K2</b>
	<b>GM1.2/BG4.5/HS11.15/SSS13.17/TS1.4</b> , Beyond the case study: The essential role of concepts and history in Earth Sciences (co-organized), <b>13:30–15:00, Room G2</b>
<b>TU4</b> , 15:30–17:00	<b>BG1.7/CL4.28</b> , Soil stocks and atmospheric fluxes of carbon and nitrogen in high-latitude ecosystems (co-organized), <b>15:30–17:00, Room 2.31</b>
	<b>BG1.23/GI2.15</b> , Remote Sensing for forest applications (co-organized), <b>13:30–17:00, Room 2.20</b>
	<b>BG3.1/OS3.6</b> , Biogeochemistry of coastal seas and continental shelves (including Vladimir Ivanovich Vernadsky Medal Lecture) (co-organized), <b>10:30–17:00, Room C</b>
	<b>OS3.4/BG1.39</b> , Effects of Anthropogenic Pressure on Marine Ecosystems (co-organized), <b>13:30–17:00, Room N1</b>
	<b>SSS4.3/BG2.36</b> , Soil biota – habitat interactions across scales: consequences for biotic communities and soil functionality (co-organized), <b>15:30–17:00, Room K2</b>

## Wednesday, 11 April

<b>WE1</b> , 08:30–10:00	<b>BG2.16</b> , Surface exchange and distribution of reactive trace gases and aerosols, <b>08:30–10:00, Room 2.31</b>
	<b>BG2.29</b> , Peatlands under pressure, <b>08:30–12:00, Room 2.20</b>
	<b>IE2.2/GMPV1.4/BG1.11/CL4.29/ERE1.6/GD3.6/PS1.1/SSP1.10</b> , Terrestrial Planet Evolution: deep carbon cycle and interior/exterior coupling (co-organized), <b>08:30–10:00, Room N2</b>
	<b>OS3.1/BG3.3</b> , Ocean, coastal and freshwater biogeochemistry, climate and ecosystems: recent advances and novel approaches to synthesis and predictions (co-organized), <b>08:30–12:00, Room 1.85</b>
<b>WE2</b> , 10:30–12:00	<b>BG2.17</b> , Nitrous oxide and dinitrogen fluxes from soils - Advances in small scale resolution, quantification, controlling factors and process-based modelling, <b>10:30–12:00, Room 2.31</b>
	<b>BG2.29</b> , Peatlands under pressure, <b>08:30–12:00, Room 2.20</b>
	<b>OS3.1/BG3.3</b> , Ocean, coastal and freshwater biogeochemistry, climate and ecosystems: recent advances and novel approaches to synthesis and predictions (co-organized), <b>08:30–12:00, Room 1.85</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>WEL</b> , 12:15–13:15	<b>ML2/AS/BG/CL</b> , Alfred Wegener Medal Lecture by Meinrat O. Andreae (co-organized), <b>12:15–13:15, Room E1</b>
<b>WE3</b> , 13:30–15:00	<b>BG2.10/SSS13.10</b> , Transport processes of greenhouse and reactive gases in soils: measurements and modelling (co-organized), <b>13:30–15:00, Room L2</b>
	<b>BG2.31</b> , Peatlands and the Carbon Cycle, <b>13:30–15:00, Room 2.20</b>
	<b>BG4.11</b> , Carbon Cascades from Land to Ocean in the Anthropocene: Processes, Budgets, Variability, and Trends, <b>13:30–15:00, Room 2.31</b>
<b>WE4</b> , 15:30–17:00	<b>BG2.12/SSS13.5</b> , Controls and management of C sequestration in top- and subsoil horizons (co-organized), <b>15:30–17:00, Room L2</b>
	<b>BG2.32/SSS13.8</b> , Ecosystem modeling, biogeochemical cycles and earth observations of changing tropical systems (co-organized), <b>15:30–17:00, Room 2.20</b>
	<b>OS1.2/BG3.6</b> , Southern Ocean physical and biogeochemical processes from continental shelves to the open ocean (co-organized), <b>15:30–17:00, Room N1</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>

## Thursday, 12 April

<b>TH1</b> , 08:30–10:00	<b>BG2.2</b> , Carbon allocation in plants and ecosystems: mechanisms, responses and biogeochemical implications, <b>08:30–12:00, Room 2.20</b>
	<b>BG4.2</b> , Interactions between fire, the Earth system and humans across time and space, <b>08:30–12:00, Room L2</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>SSS9.8/BG2.44/GM5.6/HS11.53</b> , Coevolution of soils, landforms and vegetation: patterns, feedbacks and ecosystem stability thresholds

	(co-organized), <b>08:30–10:00, Room -2.20</b>
<b>TH2</b> , 10:30–12:00	<b>BG2.2</b> , Carbon allocation in plants and ecosystems: mechanisms, responses and biogeochemical implications, <b>08:30–12:00, Room 2.20</b>
	<b>BG4.2</b> , Interactions between fire, the Earth system and humans across time and space, <b>08:30–12:00, Room L2</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>CL1.33/BG3.11/CR8.11/GM9.8/OS2.15</b> , Polar continental margins and fjords – climate, oceanography, tectonics and geohazards (co-organized), <b>10:30–12:00, Room E2</b>
<b>THL</b> , 12:15–13:15	<b>DM2/BG</b> , Division meeting for Biogeosciences (BG) (co-organized), <b>12:15–13:15, Room L2</b>
<b>TH3</b> , 13:30–15:00	<b>BG4.3</b> , Biogeochemistry, ecohydrology, and land-use in the tropics and subtropics, <b>13:30–17:00, Room 2.20</b>
	<b>BG4.12/GI2.26</b> , Global Earth observation and in-situ data for improved understanding of terrestrial ecosystem dynamics (co-organized), <b>13:30–17:00, Room L2</b>
	<b>IE2.8/CL4.02/AS1.7/BG1.40/NP2.6/OS1.22</b> , Constraining climate sensitivity from various lines of evidence (co-organized), <b>13:30–15:00, Room N2</b>
	<b>OS4.7/BG3.9</b> , Marine Pollution Assessment, Predictions and Risk Mapping (co-organized), <b>13:30–15:00, Room 1.85</b>
	<b>SSP3.12/BG6.2/GMPV3.10/HS11.47</b> , Sedimentary and diagenetic minerals: nucleation, growth mechanisms, and reactions that build Earth's geological archive (co-organized), <b>13:30–17:00, Room 0.31</b>
	<b>HS10.9/BG7.4/GM8.6</b> , Linking river ecology, hydrology, geomorphology and biogeochemistry to understand stressor responses (co-organized), <b>13:30–15:00, Room 2.15</b>
	<b>GM11.2/BG7.8/HS9.13/OS2.8/SSP3.15</b> , Rivers, Deltas and Their Receiving Basins: Measurements, Modelling and Management (co-organized), <b>13:30–15:00, Room G2</b>
<b>TH4</b> , 15:30–17:00	<b>BG4.3</b> , Biogeochemistry, ecohydrology, and land-use in the tropics and subtropics, <b>13:30–17:00, Room 2.20</b>
	<b>BG4.12/GI2.26</b> , Global Earth observation and in-situ data for improved understanding of terrestrial ecosystem dynamics (co-organized), <b>13:30–17:00, Room L2</b>
	<b>IE2.9/BG1.5/CL3.07/SSS13.73</b> , Nitrogen-transformation processes in terrestrial and aquatic ecosystems under global change (co-organized), <b>15:30–17:00, Room N2</b>
	<b>SSP3.12/BG6.2/GMPV3.10/HS11.47</b> , Sedimentary and diagenetic minerals: nucleation, growth mechanisms, and reactions that build Earth's geological archive (co-organized), <b>13:30–17:00, Room 0.31</b>
<b>Friday, 13 April</b>	
<b>FR1</b> , 08:30–10:00	<b>BG2.14</b> , Terrestrial ecosystem responses to global change: integrating carbon, nutrient, and water cycles in experiments and models, <b>08:30–12:00, Room 2.20</b>
	<b>BG2.27/CL3.08/SSS13.7</b> , The role of trees and understories in controlling forest dynamics in current and future environments (co-organized), <b>08:30–12:00, Room L2</b>

	<b>IE1.3/GM5.1/BG1.18</b> , Biogeomorphology: conceptualising and quantifying processes, rates and feedbacks (co-organized), <b>08:30–12:00, Room N2</b>
	<b>AS4.1/BG1.14/OS3.3</b> , Air-sea exchanges: Impacts on Biogeochemistry and Climate (co-organized), <b>08:30–10:00, Room 0.11</b>
	<b>HS10.5/BG2.1/SSS13.40</b> , Stable isotopes to study water dynamics in the soil-plant-atmosphere continuum (co-organized), <b>08:30–10:00, Room 2.15</b>
	<b>SSP3.10/BG6.3/GMPV3.6</b> , Formation and diagenetic pathways of carbonate archives: From ACC to dolomite (co-organized), <b>08:30–12:00, Room 0.31</b>
<b>FR2, 10:30–12:00</b>	<b>BG2.14</b> , Terrestrial ecosystem responses to global change: integrating carbon, nutrient, and water cycles in experiments and models, <b>08:30–12:00, Room 2.20</b>
	<b>BG2.27/CL3.08/SSS13.7</b> , The role of trees and understories in controlling forest dynamics in current and future environments (co-organized), <b>08:30–12:00, Room L2</b>
	<b>IE1.3/GM5.1/BG1.18</b> , Biogeomorphology: conceptualising and quantifying processes, rates and feedbacks (co-organized), <b>08:30–12:00, Room N2</b>
	<b>OS1.9/AS1.24/BG3.5/CL4.07</b> , The Indian Ocean's past, present, and future (co-organized), <b>10:30–12:00, Room 1.85</b>
	<b>AS5.6/BG4.14/CL5.09/OS1.14</b> , Recent Developments in Numerical Earth System Modelling (co-organized), <b>10:30–12:00, Room 0.94</b>
	<b>SSP3.10/BG6.3/GMPV3.6</b> , Formation and diagenetic pathways of carbonate archives: From ACC to dolomite (co-organized), <b>08:30–12:00, Room 0.31</b>
<b>FR3, 13:30–15:00</b>	<b>BG2.19/CL2.17</b> , Land use and land cover change effects on surface biogeophysics, biogeochemistry and climate (co-organized), <b>13:30–15:00, Room 2.20</b>
	<b>BG2.23</b> , Forests under pressure: current knowledge and future science directions, <b>13:30–17:00, Room L2</b>
	<b>IE1.5/BG1.41/GMPV6.13/SSS13.71</b> , Medical Geology: an interdisciplinary field of science for the benefit of the society (co-organized), <b>13:30–15:00, Room N2</b>
	<b>AS5.10/BG1.13/CL5.08/HS3.6/OS1.18</b> , High resolution weather and climate models on large supercomputers (co-organized), <b>13:30–17:00, Room 0.94</b>
<b>FR4, 15:30–17:00</b>	<b>BG2.20</b> , Agricultural management in ecosystem models for biogeochemical and agricultural assessments, <b>15:30–17:00, Room 2.20</b>
	<b>BG2.23</b> , Forests under pressure: current knowledge and future science directions, <b>13:30–17:00, Room L2</b>
	<b>AS5.10/BG1.13/CL5.08/HS3.6/OS1.18</b> , High resolution weather and climate models on large supercomputers (co-organized), <b>13:30–17:00, Room 0.94</b>

## BG – Biogeosciences (#EGU18BG) – PICO

### Monday, 09 April

<b>MO1</b> , 08:30–10:00	<b>BG2.30/SSS13.11</b> , Environment-friendly management of organic soils and paludiculture - from innovation to implementation (co-organized), <b>PICO spot 3</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>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>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>
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### Wednesday, 11 April

<b>WE1</b> , 08:30–10:00	<b>IE4.4/GM2.8/AS5.8/BG1.17/CL5.28/GD10.10/GMPV10.5/HS3.5/SSS13.77/TS11.12</b> , R and the benefit of low-cost solutions - democratic participation to face challenges in Earth science (co-organized), <b>PICO spot 4</b>
<b>WE2</b> , 10:30–12:00	<b>IE4.4/GM2.8/AS5.8/BG1.17/CL5.28/GD10.10/GMPV10.5/HS3.5/SSS13.77/TS11.12</b> , R and the benefit of low-cost solutions - democratic participation to face challenges in Earth science (co-organized), <b>PICO spot 4</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>

### Thursday, 12 April

<b>TH1</b> , 08:30–10:00	<b>BG5.2/CL1.12</b> , Linking microbial communities and climatic archives: the influence of the subsurface biosphere on terrestrial and marine sediments (co-organized), <b>PICO spot A</b>
	<b>GI3.4/BG7.5/HS11.13/NH1.21</b> , Instrumentation & measurements for water systems (co-organized), <b>PICO spot 1</b>
<b>TH2</b> , 10:30–12:00	<b>BG8.1/PS4.3</b> , Planetary geobiological analogs for Mars and beyond: Field, lab and simulations (co-organized), <b>PICO spot A</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>HS6.5/BG1.21</b> , Remote sensing of interactions between vegetation and hydrology (co-organized), <b>PICO spot 5b</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>

### Friday, 13 April

<b>FR1</b> , 08:30–10:00	<b>BG2.25</b> , Forests and the methane (CH <sub>4</sub> ) and nitrous oxide (N <sub>2</sub> O) cycles, <b>PICO spot A</b>
<b>FR2</b> , 10:30–12:00	<b>BG2.24/HS10.13</b> , Climate and hydrological factors influencing resilience of forests (co-organized), <b>PICO spot A</b>



## BG – Biogeosciences (#EGU18BG) – Posters

### Monday, 09 April

<b>MO5</b> , 17:30–19:00	<b>BG1.1</b> , Application of stable isotopes in Biogeosciences (co-organized by the European Association of Geochemistry (EAG), <b>Hall A, A.273–A.286</b> )
	<b>BG1.2/AS4.34</b> , Stable isotopes and novel tracers in biogeochemical and atmospheric research (co-organized), <b>Hall A, A.287–A.310</b>
	<b>BG1.9</b> , Terrestrial and aquatic ecosystem disturbance – effects on GHG budgets, <b>Hall A, A.311–A.325</b>
	<b>BG2.3</b> , Plant traits and biogeochemical cycles, including optimality, acclimation and adaptation in land ecosystem models (co-organized), <b>Hall A, A.326–A.346</b>
	<b>BG5.1</b> , Methane in the marine and terrestrial realm: geo(physical) aspects, biogeochemical cycling, microbial metabolisms, environmental impacts and climate change, <b>Hall A, A.347–A.361</b>
	<b>BG7.2</b> , Natural organic matter in aquatic systems: methods, fractions and interactions in natural and engineered systems, <b>Hall A, A.362–A.383</b>
	<b>IE4.5/AS5.14/BG1.22/CL5.26/EMRP4.35/ESSI2.12/GD10.7/GI1.7</b> , Information extraction from satellite observations using data-driven methods (co-organized), <b>Hall X5, X5.226–X5.237</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>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>HS3.4/AS5.12/BG1.42/CL5.16</b> , Challenges and advances in using High-Performance Computing for Terrestrial Systems Modelling (co-organized), <b>Hall A, A.72–A.82</b>
<b>PS4.2/BG8.2</b> , Planetary Habitability: From Early Planetary Evolution to the Formation of Life (co-organized), <b>Hall X4, X4.331–X4.345</b>	

### Tuesday, 10 April

<b>TU2</b> , 10:30–12:00	<b>BG1.24/GI2.19</b> , Remote Sensing and its applications in the Biogeosciences with the COST OPTIMISE Action and MDPI Journal Sensors. (co-organized), <b>Hall A, A.383–A.404</b>
<b>TU4</b> , 15:30–17:00	<b>BG2.4</b> , Emerging constraints of photosynthesis and respiration at ecosystem to global scales, <b>Hall A, A.405–A.416</b>
	<b>BG2.15</b> , Greenhouse gases balance and management in natural and anthropogenic boreal landscapes, <b>Hall A, A.417–A.430</b>
<b>TU5</b> , 17:30–19:00	<b>BG1.3</b> , Mercury cycling in the environment – sources, processes, impacts, and archives from local to global scales, <b>Hall A, A.304–A.323</b>
	<b>BG1.6</b> , Interdisciplinary session on the global Phosphorus cycle, <b>Hall A, A.324–A.336</b>
	<b>BG1.7/CL4.28</b> , Soil stocks and atmospheric fluxes of carbon and nitrogen in high-latitude ecosystems (co-organized), <b>Hall A, A.337–A.349</b>
	<b>BG1.23/GI2.15</b> , Remote Sensing for forest applications (co-organized), <b>Hall A, A.350–A.382</b>
	<b>BG3.1/OS3.6</b> , Biogeochemistry of coastal seas and continental shelves (including Vladimir Ivanovich Vernadsky Medal Lecture) (co-organized), <b>Hall A, A.431–A.462</b>



	<b>IE2.7/AS3.6/BG1.10/CL2.24/CR8.7</b> , Atmosphere – Cryosphere interaction with focus on transport, deposition and effects of dust, black carbon, and other aerosols (co-organized), <b>Hall X5, X5.100–X5.124</b>
	<b>AS3.17/BG1.28</b> , Global Carbon Observations and their Use for Research and Decision-Making (co-organized), <b>Hall X5, X5.165–X5.190</b>
	<b>OS3.4/BG1.39</b> , Effects of Anthropogenic Pressure on Marine Ecosystems (co-organized), <b>Hall X4, X4.93–X4.118</b>
	<b>GM3.3/BG2.8/CL4.27/SSS3.4</b> , Chemical weathering, soil formation, and organic carbon mobilization across spatial and temporal scales (co-organized), <b>Hall X2, X2.93–X2.109</b>
	<b>SSS4.3/BG2.36</b> , Soil biota – habitat interactions across scales: consequences for biotic communities and soil functionality (co-organized), <b>Hall X3, X3.157–X3.176</b>
	<b>SSS4.1/BG2.38</b> , Spatial and temporal distribution of biodiversity, functions and activity of soil organisms in terrestrial ecosystems (co-organized), <b>Hall X3, X3.122–X3.156</b>
	<b>GM1.2/BG4.5/HS11.15/SSS13.17/TS1.4</b> , Beyond the case study: The essential role of concepts and history in Earth Sciences (co-organized), <b>Hall X2, X2.1–X2.15</b>
	<b>GMPV3.3/BG5.4/TS10.5</b> , From hydrothermal systems to mud volcanoes: structure, evolution and monitoring of active and fossil piercements (co-organized), <b>Hall X2, X2.353–X2.377</b>

### Wednesday, 11 April

<b>WE4</b> , 15:30–17:00	<b>BG2.16</b> , Surface exchange and distribution of reactive trace gases and aerosols, <b>Hall A, A.252–A.267</b>
	<b>BG2.17</b> , Nitrous oxide and dinitrogen fluxes from soils - Advances in small scale resolution, quantification, controlling factors and process-based modelling, <b>Hall A, A.273–A.289</b>
	<b>BG2.29</b> , Peatlands under pressure, <b>Hall A, A.301–A.316</b>
	<b>BG4.11</b> , Carbon Cascades from Land to Ocean in the Anthropocene: Processes, Budgets, Variability, and Trends, <b>Hall A, A.353–A.372</b>
<b>WE5</b> , 17:30–19:00	<b>BG2.10/SSS13.10</b> , Transport processes of greenhouse and reactive gases in soils: measurements and modelling (co-organized), <b>Hall A, A.219–A.235</b>
	<b>BG2.12/SSS13.5</b> , Controls and management of C sequestration in top- and subsoil horizons (co-organized), <b>Hall A, A.236–A.251</b>
	<b>BG2.23</b> , Forests under pressure: current knowledge and future science directions, <b>Hall A, A.290–A.300</b>
	<b>BG2.31</b> , Peatlands and the Carbon Cycle, <b>Hall A, A.317–A.334</b>
	<b>BG2.32/SSS13.8</b> , Ecosystem modeling, biogeochemical cycles and earth observations of changing tropical systems (co-organized), <b>Hall A, A.335–A.352</b>
	<b>IE2.2/GMPV1.4/BG1.11/CL4.29/ERE1.6/GD3.6/PS1.1/SSP1.10</b> , Terrestrial Planet Evolution: deep carbon cycle and interior/exterior coupling (co-organized), <b>Hall X2, X2.345–X2.361</b>
	<b>GMPV1.7/BG1.34</b> , Micro- and nanoscale Geosciences (co-organized), <b>Hall X2, X2.362–X2.370</b>

	<b>OS3.1/BG3.3</b> , Ocean, coastal and freshwater biogeochemistry, climate and ecosystems: recent advances and novel approaches to synthesis and predictions (co-organized), <b>Hall X4, X4.24–X4.53</b>
	<b>OS1.2/BG3.6</b> , Southern Ocean physical and biogeochemical processes from continental shelves to the open ocean (co-organized), <b>Hall X4, X4.1–X4.23</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>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>

## Thursday, 12 April

<b>TH5, 17:30–19:00</b>	<b>BG2.2</b> , Carbon allocation in plants and ecosystems: mechanisms, responses and biogeochemical implications, <b>Hall A, A.409–A.437</b>
	<b>BG4.2</b> , Interactions between fire, the Earth system and humans across time and space, <b>Hall A, A.438–A.461</b>
	<b>BG4.3</b> , Biogeochemistry, ecohydrology, and land-use in the tropics and subtropics, <b>Hall A, A.462–A.469</b>
	<b>BG4.12/GI2.26</b> , Global Earth observation and in-situ data for improved understanding of terrestrial ecosystem dynamics (co-organized), <b>Hall A, A.470–A.495</b>
	<b>IE2.9/BG1.5/CL3.07/SSS13.73</b> , Nitrogen-transformation processes in terrestrial and aquatic ecosystems under global change (co-organized), <b>Hall A, A.395–A.408</b>
	<b>IE2.8/CL4.02/AS1.7/BG1.40/NP2.6/OS1.22</b> , Constraining climate sensitivity from various lines of evidence (co-organized), <b>Hall X5, X5.373–X5.395</b>
	<b>GI1.3/AS5.15/BG1.30/CL5.10/EMRP4.5/ESS11.6/HS11.12/SM5.03</b> , Environmental sensor network (co-organized), <b>Hall X1, X1.59–X1.66</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>SSS9.8/BG2.44/GM5.6/HS11.53</b> , Coevolution of soils, landforms and vegetation: patterns, feedbacks and ecosystem stability thresholds (co-organized), <b>Hall X3, X3.155–X3.173</b>
	<b>OS4.7/BG3.9</b> , Marine Pollution Assessment, Predictions and Risk Mapping (co-organized), <b>Hall X4, X4.50–X4.66</b>
	<b>CL1.33/BG3.11/CR8.11/GM9.8/OS2.15</b> , Polar continental margins and fjords – climate, oceanography, tectonics and geohazards (co-organized), <b>Hall X5, X5.323–X5.339</b>
	<b>SSP3.12/BG6.2/GMPV3.10/HS11.47</b> , Sedimentary and diagenetic minerals: nucleation, growth mechanisms, and reactions that build Earth's geological archive (co-organized), <b>Hall X1, X1.346–X1.365</b>
<b>HS10.9/BG7.4/GM8.6</b> , Linking river ecology, hydrology, geomorphology and biogeochemistry to understand stressor responses (co-organized), <b>Hall A, A.362–A.380</b>	

## Friday, 13 April

<b>FR1, 08:30–10:00</b>	<b>OS1.9/AS1.24/BG3.5/CL4.07</b> , The Indian Ocean's past, present, and future (co-organized), <b>Hall X4, X4.55–X4.69</b>
<b>FR4, 15:30–17:00</b>	<b>BG2.27/CL3.08/SSS13.7</b> , The role of trees and understories in controlling forest dynamics in current and future environments (co-organized), <b>Hall A, A.434–A.458</b>

<b>FR5, 17:30–19:00</b>	<b>BG2.14</b> , Terrestrial ecosystem responses to global change: integrating carbon, nutrient, and water cycles in experiments and models, <b>Hall A, A.359–A.382</b>
	<b>BG2.19/CL2.17</b> , Land use and land cover change effects on surface biogeophysics, biogeochemistry and climate (co-organized), <b>Hall A, A.383–A.402</b>
	<b>BG2.20</b> , Agricultural management in ecosystem models for biogeochemical and agricultural assessments, <b>Hall A, A.403–A.422</b>
	<b>BG2.23</b> , Forests under pressure: current knowledge and future science directions, <b>Hall A, A.423–A.433</b>
	<b>IE1.3/GM5.1/BG1.18</b> , Biogeomorphology: conceptualising and quantifying processes, rates and feedbacks (co-organized), <b>Hall X1, X1.319–X1.337</b>
	<b>IE1.5/BG1.41/GMPV6.13/SSS13.71</b> , Medical Geology: an interdisciplinary field of science for the benefit of the society (co-organized), <b>Hall A, A.344–A.358</b>
	<b>AS5.10/BG1.13/CL5.08/HS3.6/OS1.18</b> , High resolution weather and climate models on large supercomputers (co-organized), <b>Hall X5, X5.321–X5.344</b>
	<b>AS4.1/BG1.14/OS3.3</b> , Air-sea exchanges: Impacts on Biogeochemistry and Climate (co-organized), <b>Hall X5, X5.223–X5.235</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>HS10.5/BG2.1/SSS13.40</b> , Stable isotopes to study water dynamics in the soil-plant-atmosphere continuum (co-organized), <b>Hall A, A.329–A.343</b>
	<b>AS5.6/BG4.14/CL5.09/OS1.14</b> , Recent Developments in Numerical Earth System Modelling (co-organized), <b>Hall X5, X5.301–X5.320</b>
	<b>SSP3.10/BG6.3/GMPV3.6</b> , Formation and diagenetic pathways of carbonate archives: From ACC to dolomite (co-organized), <b>Hall X1, X1.287–X1.303</b>
<b>GM11.2/BG7.8/HS9.13/OS2.8/SSP3.15</b> , Rivers, Deltas and Their Receiving Basins: Measurements, Modelling and Management (co-organized), <b>Hall X2, X2.60–X2.81</b>	