BG – Biogeosciences – Oral Sessions

Monday, 23 April	
MO1, 08:30–10:00	**BG4.3**, Integrating aquatic and terrestrial habitats for large-scale carbon and greenhouse gas balances - towards whole landscape assessments, **08:30–10:00** in **Room 23**
	NH7.3/AS4.3/BG2.25/ESSI1.8/NP4.6/SSS5.24, Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized), **08:30–17:00** in **Room D**
MO2, 10:30–12:00	**BG2.2**, Towards a full GHG balance from the biosphere. How important are N2O and CH4 emissions in different ecosystems? How difficult is it to measure and to model their emission?, **10:30–15:15** in **Room 23**
	NH7.3/AS4.3/BG2.25/ESSI1.8/NP4.6/SSS5.24, Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized), **08:30–17:00** in **Room D**
MO3, 13:30–15:00	**BG2.2**, Towards a full GHG balance from the biosphere. How important are N2O and CH4 emissions in different ecosystems? How difficult is it to measure and to model their emission?, **10:30–15:15** in **Room 23**
	PSD19.13, NH7.3/AS4.3/BG2.25/ESSI1.8/NP4.6/SSS5.24 - Spatial and temporal patterns of wildfires: models, theory, and reality, **14:30–15:15** in **Room 37**
	PSD20.8, BG2.3 - Patterns and drivers of GHG assimilation and release in natural and agricultural ecosystems, **14:30–15:15** in **Room SM2**
	SSS3.4/BG2.26/OS3.5, Stabilization of organic matter in soils, sediments and marine dissolved organic matter (co-organized), **13:30–15:00** in **Room 3**
MO4, 15:30–17:00	**BG2.3**, Patterns and drivers of GHG assimilation and release in natural and agricultural ecosystems, **15:30–17:00** in **Room 23**
	NH7.3/AS4.3/BG2.25/ESSI1.8/NP4.6/SSS5.24, Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized), **08:30–17:00** in **Room D**
	SSS6.2, Eco-engineering mitigations against natural hazards: Biological and Geophysical contributions to sustainable soil bioengineering in a changing world (co-listed), **15:30–17:00** in **Room 3**
Tuesday, 24 April	
TU1, 08:30–10:00	**BG1.2/IG13**, Application of stable isotopes in Biogeosciences (co-organized), **08:30–15:00** in **Room 23**
	BG5.2, Environmental, socio-economic and climatic changes in Northern Eurasia and their feedbacks to the Global Earth System, **08:30–15:00** in **Room 24**
	CL1.16/AS4.1/BG2.12/IG15, Biogeochemistry of Atmospheric Methane: Isotopes to Models (co-organized), **08:30–10:00** in **Room 13**
	OS4.5, SENSEnet: Marine sensor development for the 21st Century (co-listed), **08:30–12:00** in **Room 9**
TU2, 10:30–12:00	**BG1.2/IG13**, Application of stable isotopes in Biogeosciences (co-organized), **08:30–15:00** in **Room 23**
	BG5.2, Environmental, socio-economic and climatic changes in Northern Eurasia and their feedbacks to the Global Earth System, **08:30–15:00** in **Room 24**

	OS4.5, SENSEnet: Marine sensor development for the 21st Century (co-listed), **08:30–12:00** in **Room 9**
	PSD10.8, AS4.4/BG2.16 - Boreal forest chemistry and physics, **10:30–11:15** in **Room 37**
TU3, 13:30–15:00	**BG1.2/IG13**, Application of stable isotopes in Biogeosciences (co-organized), **08:30–15:00** in **Room 23**
	BG5.2, Environmental, socio-economic and climatic changes in Northern Eurasia and their feedbacks to the Global Earth System, **08:30–15:00** in **Room 24**
	PSD12.5, GM4.4/BG1.8 - Biophysical processes: from biological soil crusts to macro process, **14:30–15:15** in **Room 35**
TU4, 15:30–17:00	**AS4.4/BG2.16**, Boreal forest chemistry and physics (co-organized), **15:30–17:00** in **Room 8**
	BG1.4, Earth Observation for Land-Atmosphere Interaction Science, **15:30–17:00** in **Room 24**
	BG7.2, Nexus between microbes, metals and minerals in the environment (co-sponsored by the European Association of Geochemistry (EAG)), **15:30–17:00** in **Room 23**
TU5, 17:30–19:00	**PSD20.1**, BG2.15 - Biotic interactions and biogeochemical processes, **17:30–18:15** in **Room 35**
	PSD20.3, BG3.2 - Biogeochemistry of coastal seas and continental shelves (including Arne Richter Award for Outstanding Young Scientists Lecture), **17:30–18:15** in **Room 37**

Wednesday, 25 April

WE1, 08:30–10:00	**BG2.15**, Biotic interactions and biogeochemical processes, **08:30–12:00** in **Room 24**
	BG3.1, Oxygen depletion in land-locked, coastal and open ocean systems of the present and past – driving mechanisms, impacts and recovery, **08:30–10:00** in **Room 23**
	CL4.3, Mediterranean Climate: from past to future (co-listed), **08:30–15:15** in **Room 16**
	GM4.2, Organic matter export across landscapes: Understanding the rates and controls (co-listed), **08:30–10:00** in **Room 21**
	SSS7.3, Where does all the Pyrogenic Organic Matter go? Its Fate in Soils, Water and Sediments (co-listed), **08:30–12:00** in **Room 3**
WE2, 10:30–12:00	**BG2.15**, Biotic interactions and biogeochemical processes, **08:30–12:00** in **Room 24**
	BG3.2, Biogeochemistry of coastal seas and continental shelves (including Arne Richter Award for Outstanding Young Scientists Lecture), **10:30–12:30** in **Room 23**
	CL4.3, Mediterranean Climate: from past to future (co-listed), **08:30–15:15** in **Room 16**
	GM4.3, Sediment and carbon fluxes under human impact and climate changes (co-listed), **10:30–12:00** in **Room 21**
	PSD20.7, BG3.1 - Oxygen depletion in land-locked, coastal and open ocean systems of the present and past – driving mechanisms, impacts and recovery, **11:30–12:15** in **Room 37**
	SSS7.3, Where does all the Pyrogenic Organic Matter go? Its Fate in Soils, Water and Sediments (co-listed), **08:30–12:00** in **Room 3**
WE3, 13:30–15:00	**BG2.1**, Biogeochemistry and ecohydrology of arid and semi-arid ecosystems, **13:30–15:00** in **Room 24**
	BG7.1, Methane cycling in marine and terrestrial systems/ES0902 Pergamon COST ACTION, **13:30–17:00** in **Room 23**

	CL4.3, Mediterranean Climate: from past to future (co-listed), **08:30–15:15** in **Room 16**
	SSS3.6/BG2.24, Land use and land management impacts on soil organic carbon (SOC) dynamics: from the long term experiment to the national inventory (co-organized), **13:30–17:00** in **Room 3**
WE4, 15:30–17:00	**BG2.8**, Remote Sensing and data assimilation in the Biogeosciences (co-sponsored by iLEAPS), **15:30–17:00** in **Room 24**
	BG7.1, Methane cycling in marine and terrestrial systems/ES0902 Pergamon COST ACTION, **13:30–17:00** in **Room 23**
	CL5.7/AS4.22/BG6.4/GM2.6, Instrumental monitoring of caves: the key to understanding anthropogenic impacts and climate-proxy relationships in speleothems (co-organized), **15:30–17:00** in **Room 16**
	SSS2.3, Weathering and bioweathering: measurement techniques and implications in soil formation (co-listed), **15:30–17:00** in **Room 6**
	SSS3.6/BG2.24, Land use and land management impacts on soil organic carbon (SOC) dynamics: from the long term experiment to the national inventory (co-organized), **13:30–17:00** in **Room 3**
WE5, 17:30–19:00	**PSD20.5**, BG6.2 - Calcification in marine organisms: ocean-acidification and proxy-development studies (including Vladimir Ivanovich Vernadsky Medal Lecture), **17:30–18:15** in **Room 40**

Thursday, 26 April

TH1, 08:30–10:00	**AS4.5/BG2.17/CL2.6**, Vegetation-Atmosphere Interactions: From Emission to Atmospheric Particles and Climate (co-organized), **08:30–10:00** in **Room 14**
	BG2.5, Peatlands and the Carbon Cycle, **08:30–12:00** in **Room 24**
	BG6.2, Calcification in marine organisms: ocean-acidification and proxy-development studies (including Vladimir Ivanovich Vernadsky Medal Lecture), **08:30–15:00** in **Room 23**
	GM4.4/BG1.8, Biophysical processes: from biological soil crusts to macro process (co-organized), **08:30–12:00** in **Room 22**
	NP3.4/BG2.23/SSS1.7, Scaling, Nonlinearity, and Complexity in soils (co-organized), **08:30–12:15** in **Room 18**
TH2, 10:30–12:00	**BG2.5**, Peatlands and the Carbon Cycle, **08:30–12:00** in **Room 24**
	BG6.2, Calcification in marine organisms: ocean-acidification and proxy-development studies (including Vladimir Ivanovich Vernadsky Medal Lecture), **08:30–15:00** in **Room 23**
	GM4.4/BG1.8, Biophysical processes: from biological soil crusts to macro process (co-organized), **08:30–12:00** in **Room 22**
	NP3.4/BG2.23/SSS1.7, Scaling, Nonlinearity, and Complexity in soils (co-organized), **08:30–12:15** in **Room 18**
	PSD10.11, AS4.5/BG2.17/CL2.6 - Vegetation-Atmosphere Interactions: From Emission to Atmospheric Particles and Climate, **10:30–11:15** in **Room SM2**
TH3, 13:30–15:00	**BG6.2**, Calcification in marine organisms: ocean-acidification and proxy-development studies (including Vladimir Ivanovich Vernadsky Medal Lecture), **08:30–15:00** in **Room 23**
	SSP3.3, Reconstructing redox conditions from sedimentary records – an interdisciplinary approach (sponsored by IAS) (co-listed), **13:30–15:00** in **Room 41**

TH4, 15:30–17:00	**BG1.7**, Terrestrial organic matter dynamics during land-ocean transport in the Arctic., **15:30–17:00** in **Room 24**
	BG6.3/CL5.14/SSP5.4, Micropaleontology: a key to modern and ancient environments (co-organized), **15:30–17:00** in **Room 23**
Friday, 27 April	
FR1, 08:30–10:00	**BG2.6**, Earth observation for monitoring the global energy, water and carbon cycles over land, **08:30–12:00** in **Room 24**
	BG6.3/CL5.14/SSP5.4, Micropaleontology: a key to modern and ancient environments (co-organized), **15:30–17:00** in **Room 23**
FR2, 10:30–12:00	**BG2.6**, Earth observation for monitoring the global energy, water and carbon cycles over land, **08:30–12:00** in **Room 24**
	BG2.11, Enhanced Carbon Sequestration in the Terrestrial Biosphere, **10:30–12:00** in **Room 23**
	HS8.3.3, Trace gases emissions from soils: Sources, mechanisms and process rates (co-listed), **10:30–12:00** in **Room 39**
	PSD20.6, BG6.3/CL5.14/SSP5.4 - Micropaleontology: a key to modern and ancient environments, **11:30–12:15** in **Room 40**
FR3, 13:30–15:00	**BG1.6**, Climate extremes, ecosystems and biogeochemical cycles, **13:30–17:00** in **Room 23**
	BG2.4, Non-CO2 influences of land cover changes on climate, **13:30–15:00** in **Room 24**
	HS10.8/BG4.4, Environmental and anthropogenic change affecting catchments and groundwater-dependent ecosystems (co-organized), **13:30–15:00** in **Room 39**
FR4, 15:30–17:00	**BG1.6**, Climate extremes, ecosystems and biogeochemical cycles, **13:30–17:00** in **Room 23**
	BG8.1, Biosignatures and their applicability to astrobiology and primitive life, **15:30–17:00** in **Room 24**
	CL4.8/BG2.22, Climate Change: Carbon Cycle, Mortality, Growth, and Shift of Forests (co-organized), **15:30–17:15** in **Room 19**
	HS10.2/GM8.2, Estuarine processes (co-listed), **15:30–17:00** in **Room 39**
	SSS7.7, Molecular and isotopic techniques in terrestrial ecosystem studies (co-listed), **15:30–17:00** in **Room 6**
	SSS8.1, Ecology and Erosion (co-listed), **15:30–17:00** in **Room 3**

BG – Biogeosciences – Poster Sessions

Monday, 23 April	
MO3, 13:30–15:00	**PSD19.13**, NH7.3/AS4.3/BG2.25/ESSI1.8/NP4.6/SSS5.24 - Spatial and temporal patterns of wildfires: models, theory, and reality, **14:30–15:15** in **Room 37**
	PSD20.8, BG2.3 - Patterns and drivers of GHG assimilation and release in natural and agricultural ecosystems, **14:30–15:15** in **Room SM2**
MO5, 17:30–19:00	**BG1.1**, Open session on Biogeosciences (Posters only), in **Poster Area BG**, **BG1–BG13**
	BG2.2, Towards a full GHG balance from the biosphere. How important are N2O and CH4 emissions in different ecosystems? How difficult is it to measure and to model their emission?, in **Poster Area BG**, **BG14–BG35**
	BG2.3, Patterns and drivers of GHG assimilation and release in natural and agricultural ecosystems, in **Poster Area BG**, **BG36–BG56** | Related: PSD20.8, see MO3
	BG2.9, Bridging Ecosystem Science to Service and Stewardship, in **Poster Area BG**, **BG57–BG63**
	BG4.1, How interactions of recalcitrant and labile organic matter may drive carbon and nutrients balance in terrestrial and aquatic ecosystems, in **Poster Area BG**, **BG64–BG69**
	BG4.2, Glacial retreat: implications for microbial ecology and biogeochemistry, in **Poster Area BG**, **BG70–BG77**
	BG4.3, Integrating aquatic and terrestrial habitats for large-scale carbon and greenhouse gas balances - towards whole landscape assessments, in **Poster Area BG**, **BG78–BG93**
	BG5.1, Urbanisation process, its dynamics and complex interactions of urban land with the Biosphere: cycles of matter, energy and water., in **Poster Area BG**, **BG94–BG97**
	NH7.3/AS4.3/BG2.25/ESSI1.8/NP4.6/SSS5.24, Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized), in **Hall X/Y**, **XY281–XY309** | Related: PSD19.13, see MO3
	SSS3.4/BG2.26/OS3.5, Stabilization of organic matter in soils, sediments and marine dissolved organic matter (co-organized), in **Hall X/Y**, **XY565–XY582**
	SSS6.2, Eco-engineering mitigations against natural hazards: Biological and Geophysical contributions to sustainable soil bioengineering in a changing world (co-listed), in **Hall X/Y**, **XY596–XY608**
Tuesday, 24 April	
TU2, 10:30–12:00	**PSD10.8**, AS4.4/BG2.16 - Boreal forest chemistry and physics, **10:30–11:15** in **Room 37**
TU3, 13:30–15:00	**PSD12.5**, GM4.4/BG1.8 - Biophysical processes: from biological soil crusts to macro process, **14:30–15:15** in **Room 35**
TU5, 17:30–19:00	**AS4.4/BG2.16**, Boreal forest chemistry and physics (co-organized), in **Hall X/Y**, **XY122–XY137** | Related: PSD10.8, see TU2
	BG1.2/IG13, Application of stable isotopes in Biogeosciences (co-organized), in **Poster Area BG**, **BG1–BG32**
	BG1.4, Earth Observation for Land-Atmosphere Interaction Science, in **Poster Area BG**, **BG33–BG52**

	BG5.2, Environmental, socio-economic and climatic changes in Northern Eurasia and their feedbacks to the Global Earth System, in **Poster Area BG**, **BG53–BG82**
	CL1.16/AS4.1/BG2.12/IG15, Biogeochemistry of Atmospheric Methane: Isotopes to Models (co-organized), in **Hall Z**, **Z31–Z42**
	OS4.5, SENSEnet: Marine sensor development for the 21st Century (co-listed), in **Hall X/Y**, **XY389–XY406**
TU5, 17:30–19:00	**PSD20.1**, BG2.15 - Biotic interactions and biogeochemical processes, **17:30–18:15** in **Room 35**
	PSD20.3, BG3.2 - Biogeochemistry of coastal seas and continental shelves (including Arne Richter Award for Outstanding Young Scientists Lecture), **17:30–18:15** in **Room 37**

Wednesday, 25 April

WE2, 10:30–12:00	**PSD20.7**, BG3.1 - Oxygen depletion in land-locked, coastal and open ocean systems of the present and past – driving mechanisms, impacts and recovery, **11:30–12:15** in **Room 37**
WE5, 17:30–19:00	**BG2.1**, Biogeochemistry and ecohydrology of arid and semi-arid ecosystems, in **Poster Area BG**, **BG1–BG14**
	BG2.8, Remote Sensing and data assimilation in the Biogeosciences (co-sponsored by iLEAPS), in **Poster Area BG**, **BG15–BG29**
	BG2.15, Biotic interactions and biogeochemical processes, in **Poster Area BG**, **BG30–BG50** | Related: PSD20.1, see TU5
	BG3.1, Oxygen depletion in land-locked, coastal and open ocean systems of the present and past – driving mechanisms, impacts and recovery, in **Poster Area BG**, **BG51–BG63** | Related: PSD20.7, see WE2
	BG3.2, Biogeochemistry of coastal seas and continental shelves (including Arne Richter Award for Outstanding Young Scientists Lecture), in **Poster Area BG**, **BG64–BG75** | Related: PSD20.3, see TU5
	BG7.1, Methane cycling in marine and terrestrial systems/ES0902 Pergamon COST ACTION, in **Poster Area BG**, **BG76–BG105**
	CL4.3, Mediterranean Climate: from past to future (co-listed), in **Hall Z**, **Z106–Z135**
	CL5.7/AS4.22/BG6.4/GM2.6, Instrumental monitoring of caves: the key to understanding anthropogenic impacts and climate-proxy relationships in speleothems (co-organized), in **Hall Z**, **Z150–Z164**
	GM4.2, Organic matter export across landscapes: Understanding the rates and controls (co-listed), in **Hall XL**, **XL128–XL142**
	HS10.5/BG2.21, Geological and hydro-biogeochemical feedbacks shaping habitats and biodiversity in terrestrial systems (co-organized), in **Hall A**, **A356–A368**
	NP3.4/BG2.23/SSS1.7, Scaling, Nonlinearity, and Complexity in soils (co-organized), in **Hall X/Y**, **XY426–XY446**
	SSS2.3, Weathering and bioweathering: measurement techniques and implications in soil formation (co-listed), in **Hall X/Y**, **XY561–XY577**
	SSS3.6/BG2.24, Land use and land management impacts on soil organic carbon (SOC) dynamics: from the long term experiment to the national inventory (co-organized), in **Hall X/Y**, **XY578–XY603**
	SSS7.3, Where does all the Pyrogenic Organic Matter go? Its Fate in Soils, Water and Sediments (co-listed), in **Hall X/Y**, **XY619–XY638** | Related: PSD4.13, see WE3

WE5, 17:30–19:00	**PSD20.5**, BG6.2 - Calcification in marine organisms: ocean-acidification and proxy-development studies (including Vladimir Ivanovich Vernadsky Medal Lecture), **17:30–18:15** in **Room 40**
Thursday, 26 April	
TH2, 10:30–12:00	**AS4.5/BG2.17/CL2.6**, Vegetation-Atmosphere Interactions: From Emission to Atmospheric Particles and Climate (co-organized), in **Hall X/Y**, **XY56–XY67** | Related: PSD10.11, see TH2
	PSD10.11, AS4.5/BG2.17/CL2.6 - Vegetation-Atmosphere Interactions: From Emission to Atmospheric Particles and Climate, **10:30–11:15** in **Room SM2**
TH5, 17:30–19:00	**BG1.7**, Terrestrial organic matter dynamics during land-ocean transport in the Arctic., in **Poster Area BG**, **BG1–BG17**
	BG2.5, Peatlands and the Carbon Cycle, in **Poster Area BG**, **BG18–BG34**
	BG6.2, Calcification in marine organisms: ocean-acidification and proxy-development studies (including Vladimir Ivanovich Vernadsky Medal Lecture), in **Poster Area BG**, **BG35–BG50** | Related: PSD20.5, see WE5
	BG7.2, Nexus between microbes, metals and minerals in the environment (co-sponsored by the European Association of Geochemistry (EAG)), in **Poster Area BG**, **BG51–BG66**
	GM4.4/BG1.8, Biophysical processes: from biological soil crusts to macro process (co-organized), in **Hall XL**, **XL272–XL296** | Related: PSD12.5, see TU3
Friday, 27 April	
FR2, 10:30–12:00	**BG1.6**, Climate extremes, ecosystems and biogeochemical cycles, in **Poster Area BG**, **BG1–BG23**
	CL4.8/BG2.22, Climate Change: Carbon Cycle, Mortality, Growth, and Shift of Forests (co-organized), in **Hall Z**, **Z109–Z116**
	HS10.2/GM8.2, Estuarine processes (co-listed), in **Hall A**, **A257–A269**
	HS10.8/BG4.4, Environmental and anthropogenic change affecting catchments and groundwater-dependent ecosystems (co-organized), in **Hall A**, **A296–A312**
	PSD20.6, BG6.3/CL5.14/SSP5.4 - Micropaleontology: a key to modern and ancient environments, **11:30–12:15** in **Room 40**
FR3, 13:30–15:00	**BG2.6**, Earth observation for monitoring the global energy, water and carbon cycles over land, in **Poster Area BG**, **BG32–BG53**
	BG2.11, Enhanced Carbon Sequestration in the Terrestrial Biosphere, in **Poster Area BG**, **BG54–BG67**
	BG8.1, Biosignatures and their applicability to astrobiology and primitive life, in **Poster Area BG**, **BG90–BG96**
	HS8.3.3, Trace gases emissions from soils: Sources, mechanisms and process rates (co-listed), in **Hall A**, **A227–A241**
	SSS7.7, Molecular and isotopic techniques in terrestrial ecosystem studies (co-listed), in **Hall X/Y**, **XY556–XY571**
	SSS8.1, Ecology and Erosion (co-listed), in **Hall X/Y**, **XY572–XY586**
FR4, 15:30–17:00	**BG2.4**, Non-CO2 influences of land cover changes on climate, in **Poster Area BG**, **BG24–BG31**

	BG6.3/CL5.14/SSP5.4, Micropaleontology: a key to modern and ancient environments (co-organized), in **Poster Area BG**, **BG68–BG89** | Related: PSD20.6, see FR2
	SSP3.3, Reconstructing redox conditions from sedimentary records – an interdisciplinary approach (sponsored by IAS) (co-listed), in **Hall A**, **A342–A355**