

# PROGRAMME GROUP SCHEDULE

## BG – BIOGEOSCIENCES

**O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)**

**TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00**

| Session           | Title   | TB | MO | TU     | WE         | TH         | FR         |
|-------------------|---|----|----|--------|------------|------------|------------|
| BG0.1             | Presentation of poster only sessions  | 1  |    |        |            |            |            |
|                   |   | 2  |    |        |            |            |            |
|                   |   | 3  |    |        |            |            |            |
|                   |   | 4  |    |        |            |            |            |
|                   |   | 5  |    |        |            |            |            |
| BG0.2             | Biodiversity science in Europe: new tools and strategies (EuroDIVERSITY) (co-listed in ERE)   | 1  |    |        |            |            |            |
|                   |   | 2  |    |        | P (BG)     |            |            |
|                   |   | 3  |    |        | O (20 (N)) |            |            |
|                   |   | 4  |    |        |            |            |            |
|                   |   | 5  |    |        |            |            |            |
| BG1.01            | From biogenic primary exchange to atmospheric fluxes of reactive trace gases  | 1  |    |        |            |            | O (19)     |
|                   |   | 2  |    |        |            |            | O (19)     |
|                   |   | 3  |    |        |            |            | P (BG)     |
|                   |   | 4  |    |        |            |            |            |
|                   |   | 5  |    |        |            |            |            |
| BG1.02            | Methane fluxes from permafrost ecosystems in relation to climate change   | 1  |    |        |            |            |            |
|                   |   | 2  |    |        |            |            | O (20 (N)) |
|                   |   | 3  |    |        |            |            | P (BG)     |
|                   |   | 4  |    |        |            |            |            |
|                   |   | 5  |    |        |            |            |            |
| NH8.04/<br>BG1.04 | Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized by BG & NH)   | 1  |    |        |            |            |            |
|                   |   | 2  |    |        |            | P (XY)     |            |
|                   |   | 3  |    |        |            |            |            |
|                   |   | 4  |    |        | O (16 (L)) |            |            |
|                   |   | 5  |    |        | O (16 (L)) |            |            |
| BG1.05            | Analysis and Characterization of Black Carbon in the Environment (co-listed in AS, HS, OS & SSS)  | 1  |    |        |            |            |            |
|                   |   | 2  |    |        |            | P (BG)     |            |
|                   |   | 3  |    |        |            | O (19)     |            |
|                   |   | 4  |    |        |            | O (19)     |            |
|                   |   | 5  |    |        |            |            |            |
| NH8.02/<br>BG1.06 | Heavy-metal contamination of water, air, soil, and foodcrops (co-organized by NH and BG) (co-listed in SSS)   | 1  |    |        |            |            |            |
|                   |   | 2  |    |        |            | P (XY)     |            |
|                   |   | 3  |    |        |            |            |            |
|                   |   | 4  |    |        |            |            |            |
|                   |   | 5  |    |        |            |            |            |
| BG1.07            | Electron transfer processes in soils, sediments, and aquifers: concepts and cases (co-listed in SSS)  | 1  |    |        |            | O (20 (N)) |            |
|                   |   | 2  |    |        |            | P (BG)     |            |
|                   |   | 3  |    |        |            |            |            |
|                   |   | 4  |    |        |            |            |            |
|                   |   | 5  |    |        |            |            |            |
| BG1.08            | Biogeochemistry and ecohydrology of arid and semi-arid ecosystems (co-listed in HS)   | 1  |    |        |            |            |            |
|                   |   | 2  |    |        |            |            |            |
|                   |   | 3  |    |        |            |            | O (20 (N)) |
|                   |   | 4  |    |        |            |            | P (BG)     |
|                   |   | 5  |    |        |            |            |            |
| BG2.01            | DOM biogeochemistry and ecosystem function: from soils to oceans (co-listed in OS)  | 1  |    |        | O (19)     |            |            |
|                   |   | 2  |    |        | O (19)     |            |            |
|                   |   | 3  |    |        | P (BG)     |            |            |
|                   |   | 4  |    |        |            |            |            |
|                   |   | 5  |    |        |            |            |            |
| BG2.02            | Biogeochemistry of coastal seas and continental shelves (co-listed in OS)   | 1  |    |        |            |            |            |
|                   |   | 2  |    |        |            | P (BG)     |            |
|                   |   | 3  |    |        |            | O (19)     |            |
|                   |   | 4  |    |        |            | O (19)     |            |
|                   |   | 5  |    |        |            |            |            |
| BG3.03            | Fluvial networks and biogeochemistry (co-listed in HS)  | 1  |    |        |            |            |            |
|                   |   | 2  |    |        |            |            |            |
|                   |   | 3  |    | P (BG) |            |            |            |
|                   |   | 4  |    |        |            |            |            |
|                   |   | 5  |    |        |            |            |            |
| BG5.01/<br>CL48   | Calibration and validation of marine and terrestrial proxies: from empiricism towards a mechanistic understanding (co-organized by CL) (co-listed in SSP) | 1  |    |        |            |            | O (20 (N)) |
|                   |   | 2  |    |        |            |            |            |
|                   |   | 3  |    |        |            |            |            |
|                   |   | 4  |    |        |            |            | P (BG)     |
|                   |   | 5  |    |        |            |            |            |

| Session                    | Title   | TB | MO | TU         | WE         | TH         | FR         |
|----------------------------|---|----|----|------------|------------|------------|------------|
| BG5.02                     | ABC of biomarkers in biogeosciences: Abundance, Biosynthesis, and isotopic Composition (co-listed in IG & CL)   | 1  |    |            |            |            |            |
|                            |   | 2  |    |            |            |            |            |
|                            |   | 3  |    |            |            |            |            |
|                            |   | 4  |    |            |            |            |            |
|                            |   | 5  |    |            |            |            |            |
| BG5.03                     | Application of stable isotopes in biogeosciences (co-listed in IG)  | 1  |    |            | O (19)     |            |            |
|                            |   | 2  |    |            | O (19)     |            |            |
|                            |   | 3  |    |            | P (BG)     |            |            |
|                            |   | 4  |    |            |            |            |            |
|                            |   | 5  |    |            |            |            |            |
| BG5.05                     | Environmental Micropaleontology: microfossils as proxies of recent and past environmental change (co-listed in CL)  | 1  |    |            |            |            |            |
|                            |   | 2  |    |            |            | P (BG)     |            |
|                            |   | 3  |    |            |            |            | O (20 (N)) |
|                            |   | 4  |    |            |            |            | O (20 (N)) |
|                            |   | 5  |    |            |            |            |            |
| BG5.08                     | Natural and anthropogenic environmental change as evidenced in high-resolution continental archives (co-listed in CL)   | 1  |    |            |            |            |            |
|                            |   | 2  |    | P (BG)     |            |            |            |
|                            |   | 3  |    | O (20 (N)) |            |            |            |
|                            |   | 4  |    | O (20 (N)) |            |            |            |
|                            |   | 5  |    |            |            |            |            |
| BG5.09/<br>CL49            | Climate variability and the carbon cycle (past, present and future): The EuroCLIMATE Programme on multi-proxy reconstructions and coupled climate models at European and regional scales (co-organized by CL) (co-listed in CR & SSP) (including OYS Lecture) | 1  |    |            |            |            |            |
|                            |   | 2  |    |            | P (BG)     |            |            |
|                            |   | 3  |    |            | O (25)     |            |            |
|                            |   | 4  |    |            | O (25)     |            |            |
|                            |   | 5  |    |            | O (25)     |            |            |
| GMPV<br>20/<br>BG5.10      | Mineral properties and behaviour: the European Mineral Sciences Initiative (EuroMinSci) open session (including the EMU Research Excellence Medal Lecture) (co-organized by BG) (co-listed in CR, NP, SSP)  | 1  |    |            | P (A)      |            |            |
|                            |   | 2  |    |            | P (I)      |            |            |
|                            |   | 3  |    |            | O (20 (N)) |            |            |
|                            |   | 4  |    |            | O (20 (N)) |            |            |
|                            |   | 5  |    |            |            |            |            |
| BG6.0/<br>SSS24            | Geomicrobiology: mineralization, weathering and biofilms (co-organized by SSS)  | 1  |    |            |            |            |            |
|                            |   | 2  |    | P (BG)     |            |            |            |
|                            |   | 3  |    | O (19)     |            |            |            |
|                            |   | 4  |    | O (19)     |            |            |            |
|                            |   | 5  |    |            |            |            |            |
| BG6.02                     | Molecular Geomicrobiology: Linking geochemical processes to community structure, genomic and evolutionary biology (co-sponsored by ISME)  | 1  |    | O (19)     |            |            |            |
|                            |   | 2  |    | O (19)     |            |            |            |
|                            |   | 3  |    | P (BG)     |            |            |            |
|                            |   | 4  |    |            |            |            |            |
|                            |   | 5  |    |            |            |            |            |
| BG6.03                     | Ecosystems of the deep sea-floor and their geological drivers (co-listed in SSP, OS & CL)   | 1  |    |            |            |            |            |
|                            |   | 2  |    |            | P (BG)     |            |            |
|                            |   | 3  |    |            |            |            |            |
|                            |   | 4  |    |            |            |            | O (19)     |
|                            |   | 5  |    |            |            |            |            |
| BG6.04                     | Methane fluxes on continental margins: ecosystems, drivers and controls (co-listed in CL)   | 1  |    |            |            | O (19)     |            |
|                            |   | 2  |    |            |            | O (19)     |            |
|                            |   | 3  |    |            |            |            | O (19)     |
|                            |   | 4  |    |            |            |            | P (BG)     |
|                            |   | 5  |    |            |            |            |            |
| BG6.05                     | Biogeochemical interactions in chemosynthetic deep-sea ecosystems: methods, tools and strategies (co-listed in OS)  | 1  |    |            |            |            | O (20 (N)) |
|                            |   | 2  |    |            |            |            | P (BG)     |
|                            |   | 3  |    |            |            |            |            |
|                            |   | 4  |    |            |            |            |            |
|                            |   | 5  |    |            |            |            |            |
| BG6.06/<br>NP6.09          | Coupling biogeochemistry and ecology to fluid dynamics in aquatic ecosystems (co-organized by NP) (co-listed in OS)   | 1  |    |            |            |            |            |
|                            |   | 2  |    |            |            | O (20 (N)) |            |
|                            |   | 3  |    |            |            |            |            |
|                            |   | 4  |    |            | P (BG)     |            |            |
|                            |   | 5  |    |            |            |            |            |
| BG7.01/<br>PS7.3/<br>PS1.1 | Astrobiology, Mars and robotic exploration (co-organized by PS)   | 1  |    |            |            |            |            |
|                            |   | 2  |    |            |            |            | P (BG)     |
|                            |   | 3  |    |            |            |            | O (19)     |
|                            |   | 4  |    |            |            |            | O (19)     |
|                            |   | 5  |    |            |            |            |            |
| NP3.02                     | Scale, Scaling, nonlinear variability and turbulent structures in oceans, atmosphere and the climate (co-listed in AS, BG, CL & OS)   | 1  |    | O (22)     |            |            |            |
|                            |   | 2  |    | O (22)     |            |            |            |
|                            |   | 3  |    |            |            |            |            |
|                            |   | 4  |    |            | P (XY)     |            |            |
|                            |   | 5  |    |            |            |            |            |
| NP3.01                     | Scale, scaling and nonlinear variability in aquatic biogeosystems (co-listed in BG & OS)  | 1  |    | O (22)     |            |            |            |
|                            |   | 2  |    |            |            |            |            |
|                            |   | 3  |    |            |            |            |            |
|                            |   | 4  |    |            | P (XY)     |            |            |
|                            |   | 5  |    |            |            |            |            |

| Session                 | Title  | TB | MO     | TU | WE     | TH         | FR     |        |
|-------------------------|--|----|--------|----|--------|------------|--------|--------|
| HS45                    | Modelling and observation of hydrological and biological processes in West Africa (co-listed in BG)  | 1  |        |    |        |            |        |        |
|                         |  | 2  |        |    |        |            | P (A)  |        |
|                         |  | 3  |        |    |        |            |        |        |
|                         |  | 4  |        |    |        |            |        | O (31) |
|                         |  | 5  |        |    |        |            |        |        |
| HS28                    | Catchment structure and connectivity (co-listed in GM, BG & SSS)   | 1  |        |    |        |            |        |        |
|                         |  | 2  |        |    |        |            | P (A)  |        |
|                         |  | 3  |        |    |        |            | O (31) |        |
|                         |  | 4  |        |    |        |            | O (31) |        |
|                         |  | 5  |        |    |        |            |        |        |
| OS14                    | Turbulent mixing in aquatic ecosystems - physical processes and ecosystem responses (co-listed in BG)  | 1  |        |    |        |            |        |        |
|                         |  | 2  |        |    |        |            |        |        |
|                         |  | 3  | O (7)  |    |        |            |        |        |
|                         |  | 4  |        |    |        |            |        |        |
|                         |  | 5  |        |    |        | P (XY)     |        |        |
| SSS4                    | Organic soils, processes, mechanisms and utilization (co-listed in BG)   | 1  |        |    |        |            | O (33) |        |
|                         |  | 2  |        |    |        |            |        |        |
|                         |  | 3  |        |    |        |            |        |        |
|                         |  | 4  |        |    |        |            |        |        |
|                         |  | 5  |        |    |        |            | P (A)  |        |
| SSS8                    | The mechanisms, especially diffusion, by which soil organic matter influences chemical fate: Chromium as a case study (co-listed in BG)                                    | 1  |        |    |        |            |        |        |
|                         |  | 2  |        |    |        |            |        |        |
|                         |  | 3  |        |    |        |            | O (33) |        |
|                         |  | 4  |        |    |        |            |        |        |
|                         |  | 5  |        |    |        |            | P (A)  |        |
| SSS19                   | Soil remediation processes: New insights into the role of mineral surfaces and bioaccessibility of residues (co-listed in BG) (including Philippe Duchafour Medal Lecture) | 1  |        |    |        |            |        |        |
|                         |  | 2  |        |    |        |            |        |        |
|                         |  | 3  |        |    |        | O (33)     |        |        |
|                         |  | 4  |        |    |        |            |        |        |
|                         |  | 5  |        |    |        | P (A)      |        |        |
| SSS22                   | Ants in the Soil System. A hydrological, chemical and biological approach (co-listed in BG)  | 1  |        |    |        |            |        |        |
|                         |  | 2  |        |    |        |            | O (33) |        |
|                         |  | 3  |        |    |        |            | P (A)  |        |
|                         |  | 4  |        |    |        |            |        |        |
|                         |  | 5  |        |    |        |            |        |        |
| GI4                     | Instrumentation related to polar regions and the IPY (co-listed in AS, BG, CR & OS)  | 1  |        |    |        |            |        |        |
|                         |  | 2  |        |    |        |            |        |        |
|                         |  | 3  |        |    |        |            |        |        |
|                         |  | 4  |        |    | O (2)  |            |        |        |
|                         |  | 5  |        |    | O (2)  | P (XY)     |        |        |
| OS15                    | Fate of riverine matter in marine environments: pathways, feedbacks, characterization and quantification (co-listed in BG)   | 1  |        |    |        | O (7)      |        |        |
|                         |  | 2  |        |    |        |            |        |        |
|                         |  | 3  |        |    |        |            |        |        |
|                         |  | 4  |        |    |        |            |        |        |
|                         |  | 5  | P (XY) |    |        |            |        |        |
| CL1                     | Organic Carbon-Rich Marine Sediments Past, Present and Future : Oceans and Climate Feedbacks (co-listed in BG & SSP)   | 1  |        |    | O (25) |            |        |        |
|                         |  | 2  |        |    | O (25) |            |        |        |
|                         |  | 3  |        |    |        |            |        |        |
|                         |  | 4  |        |    |        |            |        |        |
|                         |  | 5  |        |    |        | P (XY)     |        |        |
| CL15                    | Physical and Biogeochemical feedbacks in the Climate System (co-listed in BG)  | 1  |        |    |        |            |        |        |
|                         |  | 2  |        |    |        |            | P (XY) |        |
|                         |  | 3  |        |    |        |            | O (14) |        |
|                         |  | 4  |        |    |        |            | O (14) |        |
|                         |  | 5  |        |    |        |            |        |        |
| SSP5/<br>BG8            | Microbial Carbonates (co-sponsored by IAS and co-organized by BG)  | 1  |        |    |        |            | P (A)  |        |
|                         |  | 2  |        |    |        |            |        |        |
|                         |  | 3  |        |    |        |            |        |        |
|                         |  | 4  |        |    |        |            | O (32) |        |
|                         |  | 5  |        |    |        |            |        |        |
| SSP12/<br>BG9           | New proxies in sedimentary geochemistry (co-organized by BG, co-listed in IG & CL)   | 1  |        |    |        |            |        |        |
|                         |  | 2  |        |    |        | O (20 (N)) |        |        |
|                         |  | 3  |        |    |        |            | P (A)  |        |
|                         |  | 4  |        |    |        |            |        |        |
|                         |  | 5  |        |    |        |            |        |        |
| SSP15/<br>BG10          | Environmental Micropaleontology: microfossils as proxies of recent and past environmental change (co-organized by BG)  | 1  |        |    |        |            |        |        |
|                         |  | 2  |        |    |        |            |        |        |
|                         |  | 3  |        |    |        |            |        |        |
|                         |  | 4  |        |    |        |            |        |        |
|                         |  | 5  |        |    |        |            |        |        |
| SSP17/<br>BG11/<br>CL47 | Environmental perturbations during the Palaeozoic-Mesozoic interval: Organic geochemical and palynological proxies (co-organized by BG & CL)                               | 1  |        |    |        |            |        |        |
|                         |  | 2  |        |    |        |            |        |        |
|                         |  | 3  |        |    |        |            | O (32) |        |
|                         |  | 4  |        |    |        |            |        |        |
|                         |  | 5  |        |    |        |            | P (A)  |        |

| Session         | Title   | TB | MO     | TU     | WE         | TH     | FR          |
|-----------------|---|----|--------|--------|------------|--------|-------------|
| OS3             | Ocean Tracers and Anthropogenic CO2 (co-listed in BG & CL)  | 1  |        |        |            | O (D)  |             |
|                 |   | 2  |        |        |            | O (D)  |             |
|                 |   | 3  |        |        |            |        |             |
|                 |   | 4  |        |        |            |        |             |
|                 |   | 5  | P (XY) |        |            |        |             |
| OS6             | IMBER/SOLAS Special Session (co-listed in AS, BG, CL & NP)  | 1  |        |        |            |        |             |
|                 |   | 2  |        |        |            |        |             |
|                 |   | 3  |        |        |            |        | O (D)       |
|                 |   | 4  |        |        |            |        | O (D)       |
|                 |   | 5  |        |        | P (XY)     |        |             |
| HS15            | Colloids, microorganisms and coupled hydrological, biological and chemical processes in the unsaturated zone                                      | 1  |        |        |            |        |             |
|                 |   | 2  |        |        |            |        |             |
|                 |   | 3  |        |        | O (31)     |        |             |
|                 |   | 4  |        |        | P (A)      |        |             |
|                 |   | 5  |        |        |            |        |             |
| HS16            | Coupled hydrological, biological and chemical processes in the unsaturated zone   | 1  |        |        |            |        |             |
|                 |   | 2  |        |        |            |        |             |
|                 |   | 3  |        |        |            |        |             |
|                 |   | 4  |        |        |            |        |             |
|                 |   | 5  |        |        |            |        |             |
| HS19            | Monitoring and modelling for soil and ecohydrological processes across landscape elements   | 1  |        |        |            |        |             |
|                 |   | 2  |        |        |            |        | P (A)       |
|                 |   | 3  |        |        |            |        | O (28 (B))  |
|                 |   | 4  |        |        |            |        | O (28 (B))  |
|                 |   | 5  |        |        |            |        |             |
| HS22            | River and stream temperature: dynamics, processes, models and implications  | 1  |        |        |            |        |             |
|                 |   | 2  |        |        |            |        |             |
|                 |   | 3  |        |        |            |        |             |
|                 |   | 4  |        | O (31) | P (A)      |        |             |
|                 |   | 5  |        |        |            |        |             |
| HS23            | Hydrological, chemical and biological processes in rivers and riparian zones (co-listed in BG & GM)   | 1  |        |        |            |        |             |
|                 |   | 2  |        |        | O (30 (C)) |        |             |
|                 |   | 3  |        |        | O (30 (C)) | P (A)  |             |
|                 |   | 4  |        |        | O (30 (C)) |        |             |
|                 |   | 5  |        |        |            |        |             |
| SSS3            | Soil genesis, soil quality, biological indicators and soil functions, including education (co-listed in BG)                                       | 1  |        |        |            | O (33) |             |
|                 |   | 2  |        |        |            | O (33) |             |
|                 |   | 3  |        |        |            |        |             |
|                 |   | 4  |        |        |            |        |             |
|                 |   | 5  |        |        |            |        | P (A)       |
| OS1             | Open session on large scale ocean circulation variability (co-listed CL, BG) (including Fridjof Nansen Medal Lecture)                             | 1  | O (D)  |        |            |        |             |
|                 |   | 2  | O (D)  |        |            |        |             |
|                 |   | 3  | O (D)  |        |            |        |             |
|                 |   | 4  | O (D)  |        |            |        |             |
|                 |   | 5  | P (XY) |        |            |        |             |
| OS2             | Open session on coastal and shelf oceanography (co-listed BG)   | 1  |        |        | O (D)      |        |             |
|                 |   | 2  |        |        | O (D)      |        |             |
|                 |   | 3  |        |        | O (D)      |        |             |
|                 |   | 4  |        |        |            |        |             |
|                 |   | 5  |        |        | P (XY)     |        |             |
| AS1.14          | African Monsoon Multidisciplinary Analysis (AMMA) (co-listed in OS, BG, CL & SSS)   | 1  |        |        |            |        | O (10 (E1)) |
|                 |   | 2  |        |        |            |        | O (10 (E1)) |
|                 |   | 3  |        |        |            | P (XY) | O (10 (E1)) |
|                 |   | 4  |        |        |            | P (I)  | O (10 (E1)) |
|                 |   | 5  |        |        |            |        |             |
| TS5.2/<br>SSP24 | Processes of rifting, sediment transport, fluid flow and biogenic activity: EUROMARGINS open session (co-organized by SSP) (co-listed in BG & CL) | 1  |        |        | O (3)      |        | P (XY)      |
|                 |   | 2  |        |        | O (3)      |        |             |
|                 |   | 3  |        |        |            |        |             |
|                 |   | 4  |        |        |            |        |             |
|                 |   | 5  |        |        |            |        |             |
| OS17            | Biodiversity Science in the deep sea: EuroDEEP open session (co-listed BG)  | 1  |        |        |            |        |             |
|                 |   | 2  |        |        |            |        |             |
|                 |   | 3  |        |        |            |        |             |
|                 |   | 4  |        |        |            |        |             |
|                 |   | 5  |        |        |            |        |             |