

BIOGEOMON 2026 - Schedule



Sunday 07 June 2026

15:00-19:00 **Registration**, Skogis Kårhus

17:00-21:00 **Reception**, Skogis Kårhus

Monday 08 June 2026

07:45-08:15 **Registration**, Universum

08:15-08:30 **Opening Remarks**, Aula Nordica

08:15-16:15 **Poster and Networking Session 3 (Universum)**, Universum

- 1 What is in the atmosphere? Insights from co-located ACTRIS and ICOS stations at Svartberget
Natalia Kozii; Matthias Peichl; Eric Larmanou; Fabio Boschetti; Per Marklund; Pernilla Lofvenius; Jan Hildebrandt; Hjalmar Laudon
- 2 Forestry, streams and wetlands – building capacity through research, best practice management and communication
Elisabet Andersson; Virginia Mosquera; Eliza Maher Hasselquist
- 3 The Krycklan Catchment Study – A unique Field Infrastructure for Forest, Soil and Water Research
JOHANNES TIWARI; Kim Lindgren; Hjalmar Laudon
- 4 Long-term forest field experiments in Sweden
Maria Martell; JOHANNES TIWARI; Fredrik Sjödin; Kim Lindgren; Ulf Johansson; Martin Goude; Charotta Erefur
- 5 A field-based research platform for studying forest growth, carbon stocks and biodiversity in a managed forest landscape
Johannes Larson; Hjalmar Laudon

08:30-09:15 **Plenary - How hydrological connectivity drives biogeochemical interactions in intermittent streams**, Aula Nordica
Doerthe Tetzlaff; Songjun Wu; Chris Soulsby

09:15-09:35 **Coffee Break**, Aula Nordica

09:35-10:35 **5:1 Land-use transformation as a driver of catchment fluxes for water, nutrients, and carbon**, Aula Nordica

09:35-10:05 Memory and Management: Competing Controls on Long- Term Nitrate Trajectories in U.S. Rivers
Nandita Basu; Kim Van Meter; Danyka Byrnes

10:05-10:35 Nitrogen and phosphorus from land to sea: A biogeochemical tale of (land) uses and (dietary) customs
Estela Romero; Ana Linares; Marina Muñiz

09:35-10:35 **11:1 Land-atmosphere feedbacks: greenhouse gases, VOCs, particles and water**, BIO.E.203 - Aula Biologica
Chair: Ilona Riipinen, Stockholm University

09:35-10:05 Forests make it rain: quantifying the local and regional climate benefits of forests
Dominick Spracklen;

10:05-10:20 Atmospheric dust is a global nutrient source for plants via foliar uptake

Anton Lokshin; Daniel Palchan; Marcelo Sternberg; Tom Goren; Mahdi (André) Nakhavali; Avner Gross

10:20-10:35 Cloud regimes and tree water use: distinct global patterns for low- and high-altitude clouds

Radovan Krejci; Sini Talvinen; Yann Salmon; Jose Gutierrez Lopez; Maj-Lena Finnander Linderson; Štěpánka Řehořková; Ladislav Šigut; Abhay Devasthale; Ilona Ylivinkka; Caroline Greiser; Ekaterina Ezhova; Johannes Quaas; Natalia Kowalska; Marian Pavelka; Stanislav Juráň; Eric Larmanou; Teemu Paljakka; Claudia Mohr; Ilona Riipinen, Stockholm University

09:35-10:35 **20:1 Biogeochemistry and Ecology of Agriculture**, BIO.A.206 - Aula Anatomica

09:35-10:05 Rivers as nutrient transporters & transformers: the role of nutrient processing in shaping watershed eutrophication risk
Helen Jarvie;

10:05-10:20 High resolution monitoring of NO₃ and N₂O from a cultivated peatland – process insights and monitoring challenges
Miika Läpikivi; Maarit Liimatainen; Hermanni Aaltonen; Bjørn Kløve; Hannu Marttila

- 10:20-10:35 Risk assessment of phosphorus leaching from agricultural land: A study of phosphorus release under reducing conditions
Sara Sandström; Pia Geranmayeh
- 09:35-10:35 4:1 Insects, Wind and Fire: Disturbance effects on biogeochemistry**, *KBC301-Lilla hörsalen*
- 09:35-10:05 Emerging perspectives on forested critical zone susceptibility to and biogeochemical response following disturbance
Paul Brooks; Adrian Harpold; Sara Goeking; Naomi Tague
- 10:05-10:20 Wildfire amplifies spatial heterogeneities in the biogeochemical structure of a headwater stream network
Alex Webster; Matthew D. Hurteau
- 10:20-10:35 Wildfire influence on concentration-discharge relationships of streams in arid catchments
Tamara Harms; Ashley Cale; Xialoi Dong; Stevan Earl; Nancy Grimm; Heili Lowman; Shanthini Ode; Alex Webster; Ara Winter
- 09:35-10:35 18:1 Biodiversity trade-offs and co-benefits in ecosystem restoration**, *KBC303-Stora hörsalen*
- 09:35-10:05 Restoration with Limits: Biodiversity Trade-offs, Co-benefits, and Irreplaceable Habitats
Jörgen Sjögren;
- 10:05-10:20 Carbon balance and biodiversity trade-offs in boreal rotation forests during 200 years of stand development
Vishwal Madhav Puthenveetil; Therese Löfroth; Arne Pommerening; Matthias Peichl
- 10:20-10:35 Grassland disturbance drive trade-offs and co-benefits between biodiversity conservation and soil carbon storage.
Yves Theoneste Murindangabo; Ondřej Mudrák; Martin Bartuška; Jaroslavá Frouzova; Jan Frouz
- 09:35-10:35 14:1 Critical zone processes in a changing climate**, *Hörsal NAT.D.320*
- 09:35-09:50 Spatial mapping of soil properties and soil classification in Czech forests
Jan Svoboda; Filip Ouhlehle; Tomáš Chuman
- 09:50-10:05 Initiation of Lateral Subsurface Flow at Soil Horizon Interfaces Under Hydraulic Non-Equilibrium
Annelie Ehrhardt; Kristian Berger; Hans-Jörg Vogel; Horst H. Gerke
- 10:05-10:20 Near-surface runoff generation in a pre-Alpine catchment
Ilja van Meerveld; Anna Leuteritz; Victor Gauthier
- 10:20-10:35 Constraining the transit time distribution of stream water with multiple tracers.
Palle Büttner; Ali Ameli; Kevin Bishop
- 09:35-10:35 16:1 Biogeochemistry of soil carbon stabilization**, *Hörsal NAT.D.440*
- 09:35-09:50 Turnover and persistence of fungal mycelia depends on life strategies and nutrient availability
Dimitrios Floudas; Roos-Marie van Bokhoven; Kristin Aleklett
- 09:50-10:05 Compound climate extremes reorganise soil microbial communities and alter carbon processing
Nicholas Ofiti; Itzel Lopez-Montoya; Adrien Mestrot; Ludovico Formenti; Madhav Thakur
- 10:05-10:20 Small root-induced changes in soil carbon storage but altered microbial communities in a long-term irrigated dry forest
Claudia Guidi; Beat Frey; Konstantin Gavazov; Xingguo Han; Martina Peter; Mathias Mayer; Yueqi Zhang; Beat Stierli; Ivano Brunner; Frank Hagedorn
- 10:20-10:35 Patterns of soil and sediment microbial carbon processing along a salinity gradient
Joan Ferriol-Ciurana; Joan Pere Casas-Ruiz; Yolanda García-de Fuentes; Maria Gispert; Anna M. Romání
- 10:35-10:45 Break**, *Aula Nordica*
- 10:45-11:45 6:1 Carbon linkages between terrestrial and aquatic systems**, *Aula Nordica*
Ashley Helton; Alaina Bisson; Eric Moore; Martin Briggs
- 10:45-11:15 The role of preferential groundwater discharge in riverine greenhouse gas dynamics
Ashley Helton; Alaina Bisson; Eric Moore; Martin Briggs
- 11:15-11:45 Reconciling riparian conceptual models for terrestrial–aquatic linkages: differences, overlaps, and how to apply them
J.L. José Ledesma;
- 10:45-11:45 11:2 Land-atmosphere feedbacks: greenhouse gases, VOCs, particles and water**, *BIO.E.203 - Aula Biologica*
Chair: Ilona Riipinen, Stockholm University
- 10:45-11:00 Insect herbivore outbreak: plant volatile emissions in the subarctic mountain birch forest
Jolanta Rieksta, University of Copenhagen; Amy Samantha Smart; Cleo Lisa Davie-Martin; Annika Engroff; Yue Gao; Yi Jiao; Jing Tang; Rosa Maria Picon Garcia; Simon Nyboe Laursen; Shunan Feng; Andreas Westergaard-Nielsen; Tao Li; Wanying Zhang; Reza Wali; Riikka Rinnan, University of Copenhagen
- 11:00-11:15 Plant traits connect soil carbon and water, trees that transpire more promote formation of soil that store more water.
Jan Frouz;

- 11:15-11:30 Large Variability in Soil Hydrogen Uptake Between Soil Types in 1-year UK-wide Field Study
Ove Meisel; Josh Dean
- 11:30-11:45 BVOC-climate feedback in past, present and future conditions
Iiona Riipinen, Stockholm University; Simo Hakala; Sara Blichner; Radovan Krejci; Annica M. L. Ekman
- 10:45-11:45 5:2 Land-use transformation as a driver of catchment fluxes for water, nutrients, and carbon, Hörsal MIT.A.121**
- 10:45-11:00 ARE THE WORLD'S RIVERS GETTING OLDER DUE TO LAND USE TRANSFORMATION?
Yuliya Vystavna; Leo Chavanne; Astrid Harjung; David Soto; Andrew Watson; Jodie Miller; Johannes Cullmann
- 11:00-11:15 Land Use and Hydrogeologic Connectivity Controls on Dissolved Oxygen in Florida's Groundwater
Katie Glodzik; Katherine Wardinski; Madison Flint; Matthew Cohen
- 11:15-11:30 Impacts of acid sulfate soils on surface and groundwater in the hemiboreal zone
Liubov Kononova; Anders Johnson; Mark Dopson; Mats Åström
- 11:30-11:45 Agricultural ditches as sources of atmospheric greenhouse gas emissions
Khadija Aziz; Joachim Audet; Pia Geranmayeh; Katarina Kyllmar; Michael Peacock; Sebastian Sobek; Marcus Wallin
- 10:45-11:45 20:2 Biogeochemistry and Ecology of Agriculture, BIO.A.206 - Aula Anatomica**
- 10:45-11:00 Arctic Agriculture: From Hay Meadows to Mixed Forests—Research Gaps in the Arctic's Ecological Legacy
Anneli Ågren; Camilla Sandström; Corrine Noel Knapp
- 11:00-11:15 A test of the Nutrient Transfer Continuum to pollution-sensitive diatoms in intensively managed agricultural catchments
Jean Ortega; Golnaz Ezzati; Rebecca Hall; Bridget Lynch; Per-Erik Mellander
- 11:15-11:30 Nitrogen in mineral-associated organic matter: from biogeochemical processes to farmer outreach opportunities
Angela Possinger; Sophia Nicholacos
- 11:30-11:45 ASSESSING THE EFFECTIVENESS OF AGRICULTURAL PRACTICES OF RIPARIAN BUFFERS TO IMPROVE MULTIPLE SOCIO-ECOLOGICAL FUNCTIONS
Isabel Rojas Viada;
- 10:45-11:45 4:2 Insects, Wind and Fire: Disturbance effects on biogeochemistry, KBC301-Lilla hörsalen**
- 10:45-11:00 Solute partitioning and mobilization before and after wildfire in montane catchments
Jon Chorover; Thomas Meixner; Rodrigo Andres Sanchez
- 11:00-11:15 Nitrate driven acidification of streamwater in a burned Central European forest catchment
Jakub Hruška; David Zumr; Anna Lamačová; Tomáš Navrátil; Miloslav Devetter
- 11:15-11:30 Disturbance effects on water, organic matter, and nutrient fluxes in lime- and sandstone-dominated landscapes in Germany
Beate Michalzik; Karin Potthast; Alexander Tischer; Marie Cecile Gruselle
- 11:30-11:45 Assessing post-fire disturbance effects on carbon pools and soil nutrient cycling in Mediterranean semi-arid woodland
Daniel D. Cohen; Noga Ancis; Anton Lokshin; Avner Gross
- 10:45-11:45 18:2 Biodiversity trade-offs and co-benefits in ecosystem restoration, KBC303-Stora hörsalen**
- 10:45-11:15 Forest Clearing and Renewal: Field-Based Insights on Forest Restoration
Julia Smachylo;
- 11:15-11:30 Building "Restoration Futures": From Ecological Repair to Creative Transformations
Harry Fischer;
- 11:30-11:45 Voices from the forest sector: Identifying opportunities for upscaling forest restoration for biodiversity around water
Irina Mancheva; Eliza Maher Hasselquist; Harry Fischer
- 10:45-11:45 14:2 Critical zone processes in a changing climate, Hörsal NAT.D.320**
- 10:45-11:00 Rock fracture characteristics regulate water storage and seasonal tree water uptake in karst
Xiuqiang Liu; Xi Chen; Jeffrey J. McDonnell
- 11:00-11:15 The role of climate, lithology, hydrology, and aspect in controlling forest growth and stress in a sub-alpine catchment
Holly Barnard; Holly Barnard; Rahila Yilangai; Keira Johnson; Pamela Sullivan
- 11:15-11:30 Linking Catchment Landscape Heterogeneity to Freshwater & Solute Export Across a High-Elevation Headwater Stream Network
William Mejía García; Manuela Londoño; Alex J. Webster
- 11:30-11:45 Magnesium and calcium isotope dynamics in small Central European catchments along lithological and pollution gradients
Martin Novak; Chris Holmden; Alexandre V. Andronikov; Yulia V. Erban Kochergina; Jakub Hruška; Frantisek Veselovsky; Vaclav Kachlik; Tomas Paces; Marketa Stepanova; Ondrej Sebek; Jan Curik; Eva Prechova

- 10:45-11:45 16:2 Biogeochemistry of soil carbon stabilization**, Hörsal NAT.D.440
- 10:45-11:00 Non-photosynthetic CO₂ fixation: Roles of plant-soil interactions, soil depth, pre-incubation, and fertilization
Melanie Brunn; Wolfgang Wilcke
- 11:00-11:15 Do forest tree species influence soil aggregate and microaggregate stability through plant-derived soil organic matter?
Jean-Baptiste Colon; Anne Poszwa; Laurence Mansuy-Huault; Catherine Lorgeoux; Céline Caillet; Jérôme F.L. Duval; Guillaume Grosjean; Fabien Lachaud; Hervé Marmier; Valérie Goncalves; Christophe Gauthier; Amandine Zahm; Emmanuelle Montargès-Pelletier
- 11:15-11:30 Influence of tree species and soil age on carbon partitioning among soil organic matter fractions
Lucie Hübllová; Jan Frouz
- 11:30-11:45 The effect of tree species composition on forest soil properties in relation to potential natural vegetation
Luboš Borůvka; Lenka Pavlů; Radim Vašát; Vit Sramek; Katerina Neudertova Hellebrandova; Vera Fadrhonsova; Karel Němeček
- 11:45-13:00 Lunch**, Aula Nordica
- 13:00-13:45 Plenary - Interacting Effects of Climate, Air Pollution and Biotic Change on the Structure and Function of the Northern Forest**, Aula Nordica
Charles Driscoll;
- 13:45-13:55 Break**, Aula Nordica
- 13:55-14:55 7:1 Natural and restored peatland - effects on carbon cycling, hydrology, greenhouse gases and biogeochemistry**, Aula Nordica
- 13:55-14:25 Carbon cycling in temperate wetlands across New York State, USA
Meredith Holgerson; Rachael Tomasko; Anthony Stewart; Abigail Bar; Kathryn Gannon; Stephen Langdon; Timothy Howard
- 14:25-14:40 Integrating Permafrost into the Canadian Model for Peatlands and Application to the Hudson Bay Lowlands
Kara Webster; Kelly Bona; Madeleine Garibaldi; Oleksandra Hararuk; Yu Zhang; Alison Cassidy; Hongxing He; Erik Emilson; Gary Zhang
- 14:40-14:55 Mountain Sphagnum ecosystems of La Réunion Island: dynamics and potential environmental archives
Gaël Le Roux; XIANNONG SONG; Claudine Ah-Peng; Maëva Vigneras Ozier-Lafontaine; Laurent Bremond; Romain Darnajoux; Sandra Domingues Gomes; Solene Duperray; Laure Gandois; Sophia V. Hansson; Terry Hedderson; Henar Margenat; Michelle McKeown; Thierry Otto; Corinne Pautot; Jeroen Sonke; Marc Souhault; Dominique Strasberg; Pieter Van Beek; Nicholas Wilding; Thomas Zambardi; David Beilman
- 13:55-14:55 6:2 Carbon linkages between terrestrial and aquatic systems**, BIO.E.203 - Aula Biologica
- 13:55-14:07 Links between macronutrient stoichiometry and heterotrophic bacterial respiration in aquatic ecosystems.
Dolly Kothawala; Michael Peacock; Martyn Futter; Sara Jutterström; Filip Moldan; Mayra Rulli; Johanna Stadmark; Chris Evans
- 14:07-14:19 The role of DOC for the redox state of iron exported from catchments
Stefan Peiffer; Burkhard Beudert; Angelika Kölbl; Laura Kahle; Oliver Lechtenfeld; Luisa Hopp
- 14:19-14:31 High Spatial Resolution DOC Concentration and Composition Identify Distinct Carbon Sources in Arctic Catchments
Abigail Rec; Jonathan O'Donnell; Donna Rizzo; Julia Perdrial; Ana Morales; Ariel Shogren; Jay Zarnetske; Amelia Grose; Benjamin Abbott; William Bowden
- 14:31-14:43 Controls on dissolved mercury–organic carbon ratios during runoff: insights from isotopes and molecular DOM
Ruolan Li;
- 14:43-14:55 Soil moisture controls on dissolved organic carbon in riparian soil water in a temperate headwater catchment
Paul David Burkhardt; Andreas Musolff; José L. J. Ledesma
- 13:55-14:55 5:3 Land-use transformation as a driver of catchment fluxes for water, nutrients, and carbon**, Hörsal MIT.A.121
- 13:55-14:10 Longitudinal changes in DOC yield and DOM character with increasing scale and shifting land use
James B. Shanley; Ami L. Riscassi; Kevin Ryan; Serena Matt; Jenn H. Fair; Joseph W. Martin; Sasha Wagner; James Saiers; Jacob D. Hosen; Aron Stubbins; Peter Raymond
- 14:10-14:25 Continental gradients and cross-scale interactions shape urban stream dissolved organic matter
Rebecca Hale; Krista Capps; Kristina Hopkins; John Kominoski; Jen Morse; Allison Roy; Shuo Chen; Annika Quick; Jacob Rudolph; Liz Ortiz Munoz; Andrew Blinn; Stephen Plont; Jennifer Follstad Shah; Carey Pelc; Jessie Ribera; Christopher Rizzie
- 14:25-14:40 Varying impacts of urban beaver and stormwater ponds on nitrogen and carbon cycling
Sarah Ledford; Diego Riveros-Iregui; Sandra Clinton; Elizabeth Sudduth; Luke Pangle; Julian Sheppy; Keridwen Whitmore

- 14:40-14:55 Assessing spatial patterns of nutrient processing and storage in a beaver-created ecosystem
Skylar Ross; Lev Becker; Beth Lawrence; Ashley Helton
- 13:55-14:55 20:3 Biogeochemistry and Ecology of Agriculture**, *BIO.A.206 - Aula Anatomica*
- 13:55-14:25 From legacy to leverage: mapping wetland memory to guide restoration
Kimberly Van Meter; Nandita Basu
- 14:25-14:40 An empirical catchment-scale phosphorus impact risk model based on high-frequency hydrochemical data
Per-Erik Mellander; Phil Jordan; Rachel Cassidy; Golnaz Ezzati; Jean Ortega; Marc Stutter; Richard McDowell; Jian Liu; William Ford; Michael Rode; Magdalena Bieroza; Remi Dupas; Adrian Collins; Kevin Hiscock; Richard Cooper; Russell Adams; Philip M. Haygarth
- 14:40-14:55 Future- proof, localized, agricultural best management practices targeting phosphorus loading in Lake Simcoe, Canada
Camilla Negri; Sarah Delima; Bill Thompson; Christa Sharp; Melisa Luymes; Merrin L. Macrae; Christopher Wellen
- 13:55-14:55 4:3 Insects, Wind and Fire: Disturbance effects on biogeochemistry**, *KBC301-Lilla hörsalen*
- 13:55-14:10 Wildland fire impacts on temporal and spatial patterns of trace elements in smelter-affected semiarid soils
Vojtech Ettler; Martin Mihajljevic; Marek Tuhy; Bohdan Kribek; Ben Mapani
- 14:10-14:25 Simulating Bark Beetle Stress Induced BVOC Emissions and its Effects on Ozone and Secondary Organic Aerosol
Jana Wackermann; Hanna Wiedenhaus; Marie Luise Luttkus; Roland Schrödner; Ralf Wolke
- 14:25-14:40 Soil Fauna as Disturbance Agents: Earthworm-Driven Change in hydrology and soil biogeochemistry
Jonatan Klaminder;
- 14:40-14:55 Recovering of soil organic matter and nitrogen pools in spruce mountain forest after bark beetle outbreaks
Bartłomiej Woś; Marcin Chodak; Piotr Gruba; Agnieszka Józefowska; Justyna Likus-Cieślak; Marcin Pietrzykowski
- 13:55-14:55 18:3 Biodiversity trade-offs and co-benefits in ecosystem restoration**, *KBC303-Stora hörsalen*
- 13:55-14:10 Biodiversity of Small Waterways: Rethinking the Ecological Role of Streams, Modified Waterways, and Forest Ditches
Eliza Maher Hasselquist; Peta Zivec; Robert Spitzer; Therese Löfroth; Ryan Sponseller; Hjalmar Laudon; Lenka Kuglerová
- 14:10-14:25 Assessing the effects of peat extraction site restoration on downstream aquatic ecosystems
Kaisa-Riikka Mustonen; Aleksii Isoaho; Minna Kuoppala; Wille-Pekka Lepo; Timo Muotka; Jarno Turunen; Ronja Vesa; Annika Vilmi; Mirikka Visuri
- 14:25-14:40 To block or not to block – development of a decision support tool for ditch management in drained peatland forests
Olivia Anderson; William Lidberg; Anneli Ågren; Hjalmar Laudon; Eliza Maher Hasselquist
- 14:40-14:55 Headwater stream macroinvertebrate community responses to novel riparian buffer design under forestry clear cutting
Bridget White; Eliza Maher Hasselquist; Brendan McKie; Lenka Kuglerová
- 13:55-14:55 14:3 Critical zone processes in a changing climate**, *Hörsal NAT.D.320*
- 13:55-14:10 Change at the Riparian Reactive Interface: project synthesis of biogeochemical functioning across scales and climates
Sara Trojahn; Allan Lilly; Helen Watson; David Riach; Carol Taylor; Zisis Gagkas; Nikki Baggaley; Philip M. Haygarth; Jess Davies; Johanna Pihlblad; Victoria Janes-Bassett; Hjalmar Laudon; Andreas Musolf; Anna Lupon; Marc Stutter
- 14:10-14:25 Climate effects on water chemistry in acid sensitive catchments
Rolf D. Vogt; Marianne Stave Sekkenes; Magnus Norling; Kari Austnes; Heleen de Wit; Øyvind Kaste
- 14:25-14:40 Where and when do river temperatures reach their limits?
Christa Kelleher; Ashley McElroy; Jordan Sigal
- 14:40-14:55 Long-term trends in dissolved oxygen and dissolved organic carbon in the Floridan Aquifer System
Katherine Wardinski; Katie Glodzik; Lindsey Cromwell; Madison Flint; Darlene Saindon Velez; Jonathan Martin; Matthew Cohen
- 13:55-14:55 16:3 Biogeochemistry of soil carbon stabilization**, *Hörsal NAT.D.440*
- 13:55-14:10 Non-linear responses of litter decomposition to climate warming across biomes
Anna Doménech-Pascual; Joan Pere Casas-Ruiz; Jonathan Donhauser; Xingguo Han; Karen Jordaan; Aline Frossard; Anders Prieme; Jean-Baptiste Ramond; Anna M. Romaní
- 14:10-14:25 Tree Species Influence on Glomalin-Related Soil Protein and Organic Carbon Fractions in Reclaimed Coal Post-Mining Site
Amisalu Milkias Misebo; Wojciech Bierza; Marcin Pietrzykowski
- 14:25-14:40 Carbon sequestration and soil organic matter composition along a vegetation successional gradient in the Gorce Mountains
Sascha Nijdam; Łukasz Musielok; Boris Jansen; Elly Morriën; Ellen Desie; Bart Muys; Karen Vancampenhout

- 14:40-14:55 How is soil carbon stability affected by earthworm colonization in the arctic Fennoscandia?
Camille D'Hervilly; *Eveline Krab; Péter Garamszegi; Jonatan Klaminder; Gesche Blume-Werry*
- 13:55-14:55 19:1 Paleo Perspectives on anthropocene challenges**, Hörsal NAT.D.450
- 13:55-14:15 Reconstruction of Hg deposition and isotope signatures from tropical peatlands on Réunion Island since 25,000 BP
XIANNONG SONG; *Gaël Le Roux; Jeroen Sonke; Romain Darnajoux; Claudine Ah-Peng; Sophia V. Hansson; Rongqin Liu; Natalia Piotrowska; Corinne Pautot; Pieter Van Beek; Thomas Zambardi; Marc Souhault; François De Vleeschouwer; Laurent Bremond; Fabien Arnaud; Alice Molard; Pierre Sabatier; Dominique Strasberg; David Beilman; Olivier Magand; Laurent Michon*
- 14:15-14:35 Constraining pre-historic Swedish mercury pollution using peatlands as a natural archive: opportunities and challenges
Jenny Sjöström; *Antonio Martínez Cortizas; Olalla López-Costas*
- 14:35-14:55 Evidence for the African Anthropocene in lake sediments from a global emissions hotspot
Chris Curtis; *Neil Rose; Handong Yang; Simon Turner; Kristy Langerman; Jennifer Fitchett; Alice Milner*
- 14:55-15:15 Coffee**, Aula Nordica
- 15:15-16:15 13:1 Cold (high latitude/altitude) ecosystems in transition**, Aula Nordica
- 15:15-15:45 Impact of climate change upon inorganic nitrogen export from glacial and periglacial watersheds in Svalbard
Andrew Hodson; *Marjolaine Verret; Leah A. Jackson-Blake; Amanda Poste*
- 15:45-16:15 Linking terrestrial and aquatic carbon cycling in Greenland tundra catchments
Cheristy Jones; *Efrén López-Blanco; McKenzie Kuhn; Jeff Chanton; Ruth Varner*
- 15:15-16:15 6:3 Carbon linkages between terrestrial and aquatic systems**, BIO.E.203 - Aula Biologica
- 15:15-15:27 Climate Shapes the Nitrate Cycling in Riparian Soils across Biomes
Anna Lupon; *Stefan Gerber; Susana Bernal*
- 15:27-15:39 Forest harvest as the dominant impact on habitat conditions of small forest waterways across a ditch to stream gradient
Cedric Bagheri Åkermark; *Eliza Maher Hasselquist; Lenka Kuglerová*
- 15:39-15:51 Impacts of redox conditions on the molecular composition of dissolved organic matter in riparian wetlands
Anja Hortmann; *Hjalmar Laudon; Benny Selle; Oliver Lechtenfeld; Klaus-Holger Knorr*
- 15:51-16:03 From water isotopes to carbon uptake: Assessing Gross Primary Production in Mediterranean catchments
Lucas Bouché; *Emilie GAREL; Pierre-Alain Guisiano; Sebastien SANTONI; Frederic HUNEAU*
- 16:03-16:15 Riparian ecosystems in transition: Anthropogenic alteration of riparian environment and processes
Shreeram Inamdar; *Marc Peipoch; Jinjun Kan; Arthur Gold; Peter Groffman; Dorothy Merritts; Robert Walter; Ellen Wohl; Erin Peck; Matthew Sena; Bisesh Joshi; Moklesur Rahman; Eric Moore*
- 15:15-16:15 5:4 Land-use transformation as a driver of catchment fluxes for water, nutrients, and carbon**, Hörsal MIT.A.121
- 15:15-15:30 Variable response in riverine nitrogen exports to historical changes in watershed inputs
Roxane Maranger; *Stephanie Shousha*
- 15:30-15:45 The transformations we don't see: importance of past land use on contemporary nutrients and carbon in 'remote' lakes
Richard Bindler; *Johan Rydberg; Sofia Nannes*
- 15:45-16:00 Anthropogenic land use drives decoupling of nutrient regimes
Keira Johnson; *Lienna Sethna; Abra Atwood; Jessica Corman; Kathi Jo Jankowski; Joanna Carey; Daniel Conley; Elizabeth Elmstrom; Nicole Fernandez; Marcia Macedo; Bryn Stewart; Zanchenling Wang; Tao Wen; Pamela Sullivan*
- 16:00-16:15 Exploring Multiscale Variation in Concentration-Discharge Patterns Across Land Use Gradients
Jon Duncan; *Melinda Marsh; Peter Groffman; Tony Buda*
- 15:15-16:15 20:4 Biogeochemistry and Ecology of Agriculture**, BIO.A.206 - Aula Anatomica
- 15:15-15:30 Multifunctional wetlands - synergies or trade-offs?
Pia Geranmayeh; *Michael Peacock; Joachim Audet; Faruk Djodjic; Brendan McKie; Martyn Futter; Emma Lannergård*
- 15:30-15:45 Disentangling the impact of management and climate on soil carbon and nitrogen dynamics across grasslands globally
Eduardo Vázquez; *Camille Rousset; Marta Alfaro; Javier Almorox; Jacobo Arango; Natalia Banegas; Mike Bastidas; Marta Benito; Klaus Butterbach-Bahl; Luis Colcombet; Batnyambuu Dashpurev; Mike Dodd; Anina Gilgen; Sonja Leitner; Luis Mendes; Lutz Merbold; Felix Ngetich; Winnie Ntinyari; Julián Esteban Rivera; Julián Chará*
- 15:45-16:00 Pesticide residues and soil carbon fractions: the influence of fractionation method
Evy De Nijs; *Patricia Aguilar Alarcon; Elly Morriën; Boris Jansen*
- 16:00-16:15 Biochar used in cascade: the link between circular horticulture, peat replacement and soil improvement on arable land
Bart Vandecasteele; *Dieth Peeters; Maarten Hofkens; Simon Craeye*

- 15:15-16:15 4:4 Insects, Wind and Fire: Disturbance effects on biogeochemistry**, KBC301-Lilla hörsalen
- 15:15-15:30 Managing forests with frequent fire promotes nutrient cycling and persistent soil organic matter
Nina Wurzbarger; *Angie Romano; Rick Lankau; Caitlin Hicks Pries*
- 15:30-15:45 Fire severity shapes methane sink strength in European boreal forest soils under changing disturbance regimes
Nicola Kokkonen; *Kajar Köster*
- 15:45-16:00 Boreal forest carbon sequestration under climate change: impacts of fire, wind and insect outbreaks
Virpi Junntila; *Anu Akujärvi; Stefan Fronzek; Jonathan Holder; Francesco Minunno; Nina Pirttioja; Timothy R. Carter; Annikki Mäkelä*
- 15:15-16:15 18:4 Biodiversity trade-offs and co-benefits in ecosystem restoration**, KBC303-Stora hörsalen
- 15:15-15:30 Potential of flood pulses to restore and maintain biodiverse riparian forests
Roland Jansson; *Whitney Cleopatra Vlahakis; Marie Therese Ridoff; Birgitta Malm Renöfält*
- 15:30-15:45 Interstitial Water Hydrochemistry in Natural and Replanted Mangroves: Implications for Coastal Management in Guyana
Seon Hamer; *Temitope Oyedotun; Marianela Cobos*
- 15:15-16:15 14:4 Critical zone processes in a changing climate**, Hörsal NAT.D.320
- 15:15-15:30 Catchment structure versus antecedent conditions as drivers of stream chemistry across a hydroclimatic gradient
Lauren Giggly; *Eve Tipps; Jazzmyn Luna; William Mejía García; Manuela Londoño; Zacharie Loveless; Andrew Ali; Deandre Presswood; Kathleen Cutting; Karessa De La Paz; Juan Pesántez; Ariel Shogren; Joanna Blaszczyk; Shannon Speir; Alex Webster; Adam Wymore*
- 15:30-15:45 Ecosystems in transition: A mess of scales and processes and how to deal with it
Gunnar Lischeid; *Jenny Kröcher; Kenneth Gutiérrez García; Michael Rode*
- 15:45-16:15 The Global Critical Zone in a Changing Climate: The Role of Connectivity and Collaboration
Jeffrey Munroe;
- 15:15-16:15 16:4 Biogeochemistry of soil carbon stabilization**, Hörsal NAT.D.440
- 15:15-15:35 Optical monitoring of dissolved organic matter in soil solution reveals a browning driven by spruce decline
Adrien Saphy; *Marie-Noëlle Pons; Jérémy Masbou; Sophie Rihs; Emilie Beaulieu; Marie-claire Pierret*
- 15:35-15:55 Not only surface area but also pore size distribution of clay minerals drive carbon storage
Jan Frouz; *Saliha Irshad*
- 15:55-16:15 The impact of saltwater intrusion and sea level rise on carbon dynamics diverges between short and long-term exposure
Spencer Rhea;
- 15:15-16:15 19:2 Paleo Perspectives on anthropocene challenges**, Hörsal NAT.D.450
- 15:15-15:35 From Source to Sink: Tracking Organic Matter Across the Terrestrial-Aquatic Continuum with ATR-FTIR Spectroscopy
Andreas Nylund; *Johan Rydberg; Antonio Martínez Cortizas; Richard Bindler*
- 15:35-15:55 Paleolimnological perspectives on anthropogenic drivers of change in lake ecosystems
Liene Sethna; *Adam Heathcote; Hailey Sauer; Amelia Wilson-Jackson; Mark Edlund; Michelle Anderson; Joshua Jones; Shane Bowe; Savannah Worne; David Burge*
- 15:55-16:15 Vanished! Drastic erosion of the soils covering a marlstone plateau in the southern alps
Etienne Dambrine; *Nicolas Bonfanti; Fred Guiter; Cécile Miramont; Elodie Brisset*
- 16:15-17:15 Poster and Networking Session 1A (Skogis Kårhuset)**, Skogis Kårhus
- 1 Long-term effects of nitrogen fertilisation on forest production, climate benefits and sustainability in a boreal forest
Felicia Dahlgren Lidman; *Monika Strömgren; Raul Fernandez-Lacruz; Emelie Fredriksson; Kari Hyll; Delphine Lariviere; Eva Ring*
 - 2 Effect of Phosphorus Fertilization and Vegetation on Nitrogen Gas Emissions from Boreal Agricultural Peat Soils
Saara Tallbacka; *Heidi Stellberg; Eliezer Khaling; Arja Louhisuo; Marja Maljanen*
 - 3 Testing an electrochemical sensor system for soil solution nitrate monitoring.
Safi Ullah; *Sandra Skoop; Han Shao; Nivedha Surendran; Iris Vogeler; Lukas Kohl*
 - 4 Greenhouse Gas Emission from Flooded Depressions in Cropland: A Systematic Literature Review and Meta-Analysis
Po-Ting Pan; *Diego Abalos; Dominik Zak; Claire Treat*
 - 5 Evolution of lead isotopic ratios in the soil-plant-air continuum after wildfires
Aubin Yettou; *Eva Schreck; Rémi Freyrier; Léa Causse; Jérôme Viers*
 - 6 The impact of clearcut management on the soil organic matter and potential mobilisation of risk elements
Lenka Pavlů; *Václav Tejnecký; Luboš Borůvka; Ondřej Drábek; Radek Novotný*
 - 7 Modelling of the impact of climate and land use changes on total organic carbon loading to inland waters
Inese Huttunen; *Marie Korppoo; Markus Huttunen; Martin Forsius*

- 8 Senti'N: residual soil nitrogen storage combining subsurface drained area and French national hydrological databases
Julien Tournebize; Maxime Bignon; Hocine Henine; Cédric Chaumont; Alban Delavenne; Aaron Bluche; Olivier Delaigue; Arnaud Blanchouin; Bruno Lemaire
- 9 Climate Mitigation through Land-Use Policy: Integrated Assessment of GHG Reductions and Terrestrial Carbon Sequestration
Veronika Kronnäs; Oskar Waara; Tage Vowles; Jane Ihrfors; Sofie Hellsten; Eskil Mattsson; Raquel Gallego Medina; Daniel García Yustos; Margarita Mediavilla Pascual; Paola López Muñoz; Laura Bartolomé Quevedo; Ignacio de Blas Sanz; Mohamed Lifi; Luis Javier Miguel González
- 10 Impact of the ecological continuum and mesological conditions on the biodegradation of DOC in surface waters.
Baptiste Alran; Liudmila S. Shirokova; Edith Parlanti; Jérôme Viers; Oleg S Pokrovsky; Franck Poitrasson; Keila Cristina Aniceto; Rémy Berrabah; Eva Shreck
- 11 Five years of dissolved oxygen data reveals seasonal and inter-annual controls on metabolic processes in an arctic river
Keridwen Whitmore; Gerard Rocher-Ros; Ryan Sponseller
- 12 Soil moisture triggers greenhouse gas emissions in Mediterranean riparian soils.
Susana Bernal; Aitana Izquierdo; Edén Ramírez-Vandenhenden; Xavier Peñarroya; Francesc Sabater; Anna Lupon; Silvia Poblador
- 13 Streams in forested headwater catchments: Sources of dissolved organic carbon
Erik Nestler; Tobias Houska; Tobias Krause; Pia Nietzold; Annelie Ehrhardt; Livia Vieira Carlini Charamba; Ingo Müller; Anne Stephani; Laura Degenkolb; Klaus Kaiser; Klaus-Holger Knorr; Maximilian Lau; Conrad Jackisch; Karsten Kalbitz
- 14 Year-Round Net Ecosystem Carbon Balance in a Northern Boreal Fen: Integrating Vertical and Lateral Carbon Fluxes
Karoliina Särkelä; Hannu Marttila; Efrén López-Blanco; Torben R. Christensen
- 15 The Future Role of Boreal Peatland Ecosystems in a Changing Climate: Oil Sands Mining and Global Warming
Melanie Vile; Kelman Wieder; Kimberli Scott
- 16 Evaluating methane oxidation in peatlands by using stable isotope techniques
Mohadeseh Ramezanalagheband; Lukas Kohl
- 17 Vegetation, land use, and water quality controls on greenhouse gas fluxes in tropical wetlands
Oswald Omuron; Samuel Ssemyalo Mwesigwa; Janefranicis Babiry; Dominik Zak; Frank Kansiiime; Rasmus Jes Petersen; Gretchen Gettel
- 18 An integrative modeling approach to trace and predict essential elements in Fennoscandian lakes under global change
Mohanad Abdelgadir; Ann-Kristin Bergström; Irena F. Creed
- 19 Estimation of net geochemical release of base cations based on mass balance
Nikola Broschardt; Filip Ouhlehle; Jakub Hruška; Pavel Krám; Tomáš Chuman
- 20 Hierarchical Machine Learning for Predicting Forest Disturbance Types and Intensity in Romanian Forests
Ionut Silviu Pascu; Avram Cicsa; Alexandru Claudiu Dobre; Gheorghe Tudoran
- 21 Biological N₂-fixation in polluted peatlands: Spatial and temporal variability based on ¹⁵N₂ incubation experiments
Martin Novak; Bohuslava Cejkova; Ivana Jackova; Marketa Stepanova; Frantisek Buzek; Jan Curik; Frantisek Veselovsky
- 22 Iron- and manganese-amended constructed wetlands for the removal of organic micropollutants from greywater
Mayang Christy Perdana; Adam Sochacki; Mikk ESPENBERG; Ramita Khanongnuch; Jaroslav Vacula; Sylvie Kříženecká; Ulo Mander; Jan Vymazal
- 23 Effects of roots on nitrogen availability in boreal forest soils under fertilization and elevated atmospheric CO₂
Anne Braunroth; Andreas Schneider; Torgny Näsholm; Sandra Jämtgård
- 24 Improving model representation of isoprene emissions from Swedish boreal forests
Constanza Urbina Guerra; Annica M. L. Ekman; Simo Hakala; Ilona Riipinen, Stockholm University; Manuel Bettineschi; Giancarlo Ciarelli
- 25 Modelling CO₂ production rates in forest soil with stable isotope ratios
Outi Kurri; Aku Ursin; Jukka Pumpanen; Lukas Kohl
- 26 SERVICO₂: Evaluating Greenhouse Gas Regulation in Headwater Catchments
Lluís Camarero; Gianluca Botter; Jordi Fonollosa; Jan Karlsson; Pavel Krám; Jukka Pumpanen; Carlos Palacin-Lizarbe
- 27 Climatic and lithologic controls on differing streamflow and material export regimes in adjacent non-perennial streams
Margaret Zimmer; Samantha Motz; Lauren Giggy; Emilio Grande; Amanda Donaldson; Adam Price; Ciaran Harman; Ate Visser

- 28 Nitrate in Arctic river systems: Insights from a new biogeochemical model
Leah A. Jackson-Blake; *Amanda Poste; Marjolaine Verret; Andrew Hodson*
- 29 Dissolved organic carbon dynamics within ice-wedge polygon hydrological capillary systems
Claire Griffin; *Emily Longano; Owen Werkeiser; Torre Jorgensen; David Kofranek; Anna Liljedahl*
- 30 Clay and iron and aluminium oxyhydroxides control of soil organic matter stabilization during pedogenesis
Marie Plasova; *Tomáš Chuman*
- 31 Natural and anthropogenic factors control peat nutrient levels in peat in boreal and hemi-boreal Sweden
Lorenzo Veglio; *Betty Ehnvall; Joss Ratcliffe; Anneli Ågren*
- 32 SHIFTS IN SOIL CARBON STORAGE WITH LAND USE CHANGE IN ESTONIA
Karmel Kikas; *Karmel Kikas; Ivika Ostonen-Märtin; Ain Kull; Evelin Pihlap*
- 33 Effects of intensive versus regenerative agriculture on soil water-extractable organic matter and soil enzyme activity
Miriam Florit-Pons; *Pablo Martin-Osta; Laura Camps; Jose Schreckinger; Miguel Ángel Salinas-García; Lluís Bañeras; Laura Guerrero-Latorre; Xavier Domene; Aline Frossard; Arina Corli Hitzeroth; Anders Prieme; Jean-Baptiste Ramond; Anna M. Romani*
- 34 River alkalinity enhancement as a carbon dioxide removal strategy: a Norwegian case study
Benjamin Trueman; *Isaac Bahler; Catherine Brenan; Jessie Dale; Patrick Duke; Edmund Halfyard; Andy Lam; Nicholas Nelson; Jarrett Sather; Alix Broughton; Jack Tucker; Rolf D. Vogt; Shannon Sterling*
- 35 Mapping Dead Wood in Riparian Forest Edge Zones Using High-Resolution Unmanned Aerial Vehicle Data
Oscar Andersson; *Lars Östlund; William Lidberg*
- 36 Evaluating downcore mobility of 210Pb from the current surfaces of mined Sphagnum bogs: How reliable is 210Pb dating?
Martin Novak; *Eva Prechova; Marketa Stepanova; Eva Brizova; Jan Curik; Frantisek Veselovsky*
- 37 Rethinking Agricultural Plastics: Recycling, Microplastics, and Sustainable Land Management
Aaqib Mohammad; *Johanna Yliskylä-Peuralahti*

17:15-18:15 Poster and Networking Session 1B (Skogis Kårhuset), Skogis Kårthus

- 1 Small Waters, Big Winter Effects: Ice-Driven Biogeochemical Processing in Peatland Ponds and Puddles
Baptiste Emery; *Adrien Scamacca; Liudmila S. Shirokova; Jan Karlsson; Oleg S Pokrovsky*
- 2 Beyond mosses: expanding the view of nitrogen fixation in boreal forests
Kazi Samiul Islam; *Stefan Hupperts; Michael Gundale; Marie-Charlotte Nilsson; Caitlin Petro*
- 3 Element flows before and after silvicultural intervention in riparian hemiboreal forests
Arta Bārdule; *Ivars Kļaviņš; Zane Kļaviņa; Toms Artūrs Štāls; Līga Pentjuša; Zane Lībiete*
- 4 Beyond Climate: Nutrient Status and Tree Structure Control Carbon–Water Trade-Offs in Temperate Forest Trees
Filip Ouhlehle; *Otmar Urban; Michal Rybníček*
- 5 Climate-Driven Hydrological Shifts in Červík Catchment (1954–2024)
Katerina Neudertova Hellebrandova;
- 6 Wildfire ash contributions to marine and terrestrial phosphorus nutrition under current and future conditions
Avner Gross; *Anton Lokshin; Noa Naiman; Nina Kamenaya; Gilad Antler; Daniel Palchan*
- 7 Examining Rainfall–Runoff Response Under Changing Land Cover Using Stable Isotopes of Water
Kaitlyn Hogarth; *Johnny Boggs; Matthias Sprenger*
- 8 Hydrochemical dynamics in headwater catchments with varying forest management influence downstream nutrient loading
Colin Fuss; *Alexander Amann; Mark Lesser*
- 9 Surface Water Quality Responses to Felling and Forest Road Construction in a Managed Forested Catchment
Zane Kļaviņa; *Ivars Kļaviņš; Arta Bārdule; Zane Lībiete*
- 10 Before the Flood: Managing Legacy Phosphorus in Former Agricultural Soils
Annemette Ballhorn Petersen; *Emma Polauke; Benedicte Wiemann Olsen; Theis Kragh*
- 11 Watershed Transport of Chronic Wasting Disease Prions
Diana Karwan; *Anu Li; Stuart Lichtenberg; Isabella Callery; Lucy Rose; Marc Schwabenlander; Peter Larsen; Tiffany Wolf*
- 12 Changes in acidity of dissolved organic carbon since 1990 revealed by modeling of 42,000 pH titrations from 110 streams
Carin Sjöstedt; *Anna Lackner; Rolf D. Vogt; Jon Petter Gustafsson; Kevin Bishop*
- 13 Soil morphological, physicochemical, and nutrient biogeochemistry data from 12 selected riparian sites
Sara Trojahn; *Allan Lilly; Zisis Gagkas; Nikki Baggaley; Philip M. Haygarth; Jess Davies; Johanna Pihlblad; Victoria Janes-Bassett; Hjalmar Laudon; Andreas Musolf; Marc Stutter*
- 14 Working Towards a Global River Greenhouse Gas Isotope Database
Elizabeth Flint;
- 15 Carbon cycling in tropical streams: from the clouds through the mountain and to the sea
Bianca Rodriguez-Cardona; *Tamara Heartsill-Scalley; William McDowell*

- 16 Carbon Accumulation and Degradation Following the Restoration of Natural Hydrology in Two Ecosystems.
Benedichte Wiemann Olsen; Emma Polauke; Annemette Ballhorn Petersen; Jonas Stage Sø; Kaj Sand-Jensen; Theis Kragh
- 17 Streams in forested headwater catchments: Drivers of brownification
Laura Degenkolb; Tobias Houska; Ralf Sudbrack; Rainer Petzold; Ingo Müller; Conrad Jackisch; Karsten Kalbitz
- 18 Iron as a Key Predictor of Water Colour in Wetlands Across Southern Sweden
Henric Djerf; Amelie Lindgren; Heather Reese
- 19 From peat to gases - a WETSCAPES2.0 project
Helene Felsmann; Renske Vroom; Helena Osterholz; Gerald Jurasinski; Dominik Zak
- 20 Effect of peatland restoration on methane oxidation and production potentials on selected sites in Finland
Marja Maljanen; Anna M Laine; Teemu Paljakka; Eeva-Stiina Tuittila
- 21 Predictive power of plants: Trait–methane flux relationships in three sedge species of a boreal fen
Eeva Järvi-Laturi; Johannes Cunow; Aino Korrensalo; Eero Koskinen; Hannu Marttila; Mikhail Mastepanov; Kaisa Säkkinen; Maria Väisänen; Torben R. Christensen
- 22 Peat properties and water quality in reforested cutover peatlands
Lassi Pääkkilä; Hannu Marttila; Nella Hietanen; Maisha Ahmed; Petra Korhonen; Kari Laasasenaho; Risto Lauhanen; Liisa Jokelainen; Gopal Adhikari; Roosa Hautala; Kari Minkkinen; Paaavo Ojanen; Ahmed Hasan Shahriyer; Tuula Aalto; Maarit Raivonen; Alexander Buzacott; Annalea Lohila
- 23 Leaf; Litter; Soil: Vertical Air Measurements reveal Seasonal Mercury Dynamics in Changing Temperate Forests
Lina Oskamp; Harald Biester
- 24 Effects of liming on soil and calcium and magnesium balance at highly acidified sites with differing characteristics
Nikola Broschardt; Simon Tresch; Sabine Braun; Daniel Kurz; Gert Jan Reinds; Salim Belyazid; Tomáš Chuman
- 25 INTEGRATING GROUND-BASED AND REMOTE SENSING MONITORING FOR FOREST DISTURBANCE DETECTION: ICP FORESTS MEETS EFDA
Ionut Silviu Pascu; Alexandru Claudiu Dobre
- 26 COMPARISON OF 5-YEARS DEPOSITION CYCLES IN CONIFEROUS IN TURKEY(2017-2022)
SEYFETTIN KINIS;
- 27 Linking Snow Regimes, Vegetation Shifts, and Soil Microbial Communities in Arctic Tundra
Leah Kirchhoff; Jan Dietrich; Karina E. Clemmensen; Ellen Dorrepaal; Sara Hallin; Johan Olofsson
- 28 Contrasting N and P retention in alpine soils: the role of soil microbiome in scree and meadow environments
Michal Choma; Eva Kaštovská; Petr Čapek; Jiří Kaňa; Karolina Tahovská; Lenka Čapková; Jiří Kopáček
- 29 Tree–Microbe Interactions in Methane Exchange Across Forest Tree Tissues
Krishnapriya Thiyagarasaiyar; Dhiraj Paul; Johanna Kerttula; Milja Keski-Karhu; Kaido Soosaar; Ulo Mander; Katerina MACHACOVA; Jukka Pumpanen; Henri Siljanen
- 30 Assessment of Biomass and Soil CO₂ Fluxes in a Deciduous Plantation on Agricultural Land in Latvia
Kristaps Makovskis; Arta Bārdule; Dagnija Lazdiņa
- 31 Flow or no-flow: what citizens tell us about temporary stream dynamics
Jan Seibert; Mirjam Scheller; Ilja van Meerveld
- 32 Hydroclimatic controls of snowmelt-derived streamflow timing in a boreal catchment
Nicolas Finkler; Tejshree Tiwari; Hjalmar Laudon
- 33 Microplastic sinks, sources and activation events in a semi natural boreal catchment.
Lee Haverson; Uwe Schneidewind; Hjalmar Laudon; JOHANNES TIWARI; Lisa Mignanelli; Stefan Krause
- 34 Afforestation shifts soil carbon from mineral associated to particulate pools while maintaining microbial necromass
Ming Yu; Gerrit Angst; Carsten W. Mueller; Lars Vesterdal
- 35 Comparison of analytical approaches for assessing soil organic carbon stability
Lucie Hüblová; Olga Vindušková; David Sebag; Jan Frouz
- 36 Land use controls on soil water composition delivered to drainage ditches
Anne Eberle; Jeffrey Paulo H. Perez; Marco Ajmar; Helen Feord; Sigurður R. Gíslason; Liane G. Benning
- 37 Enhanced rock weathering in deciduous hardwood forests: organic carbon source or sink?
Christine Goodale; Alana Margerum; Sachi Srivastava; Matthew Hecking
- 38 Feeling the “pulse”: long-term studies are key to understanding organic carbon dynamics in bio-weathering
Sara Vicca; Lucilla Boito; Laura Steinwider; Arthur Vienne; Jet Rijnders; Jasper Roussard
- 39 Modelling the effects of wide riparian buffers under Alternative Forest Management along Swedish freshwaters
Alejandro Gándara; Anneli Ågren; Lenka Kuglerová; Lundström Lundström; William Lidberg; Elijah Ourth; Eliza Maher Hasselquist

- 40 An Ecosystem Services–Based Approach to Characterising Riparian Forests and Developing Management Solutions
Sille Rebane; *Floortje Vodde*; *Kalev Jõgiste*
- 41 Paleolimnological evidence of forest fires and peatland drainage shaping mercury loading to a boreal lake ecosystem
Chuxian Li; *Anneli Poska*; *Kevin Bishop*; *Simon Belle*
- 42 35 years of water quality data in agricultural runoff: Insights on trends and hydrological limitations in a cold climate
Moritz Herrmann; *Ryan Sponseller*; *Marcus Wallin*; *Lisbet Norberg*

18:15-20:15 **Early Career Researches Mingle (Students, PostDocs, PhD) at Skogish Kårhuset, Skogis Kårhus**

Tuesday 09 June 2026

07:45-08:15 **Registration** , *Aula Nordica*

08:15-08:30 **Opening Remarks** , *Aula Nordica*

08:15-16:15 **Poster and Networking Session 3 (Universum)**, *Universum*

- 2 LWA 2 - What is in the atmosphere? Insights from co-located ACTRIS and ICOS stations at Svartberget
Nataliia Kozii;
- 3 LWA 37 - Forestry, streams and wetlands – building capacity through research, best practice management and communication
Elisabet Andersson;
- 4 RI 1 - The Krycklan Catchment Study – A unique Field Infrastructure for Forest, Soil and Water Research
JOHANNES TIWARI;
- 5 RI 29 - Long-term forest field experiments in Sweden
Maria Martell;
- 6 RI 3 - A field-based research platform for studying forest growth, carbon stocks and biodiversity in a managed forest landscape
Johannes Larson;

08:30-09:15 **Plenary - Long term drivers of aboveground-belowground linkages and ecosystem functioning**,
Aula Nordica
David Wardle;

09:15-09:35 **Coffee Break** , *Aula Nordica*

09:35-10:35 **19:3 Paleo Perspectives on anthropocene challenges** , *Aula Nordica*

09:35-10:05 Fire, Insects, and Acid Rain: Paleo Perspectives on Long-Term Lake Biogeochemical Change
Carsten Meyer-Jacob;

10:05-10:35 Anthropogenic mercury in environmental archives: the crucial role of signal formation
Marta Pérez-Rodríguez;

09:35-10:35 **6:4 Carbon linkages between terrestrial and aquatic systems**, *BIO.E.203 - Aula Biologica*

09:35-09:47 Does catchment greening strengthen (or weaken) lake total organic carbon and chlorophyll responses?
Michael Dallosch; *Irena F. Creed*; *Ann-Kristin Bergström*

09:47-09:59 Colloidal forms of organic carbon, major and trace elements along a gradient of thawing permafrost mire in early spring
Baptiste Emery; *Adrien Scamacca*; *Liudmila S. Shirokova*; *Jan Karlsson*; *Oleg S Pokrovsky*

09:59-10:11 Photochemical Triggering of Fe–Organic Carbon Aggregation: A Driver for Terrestrial Carbon Sedimentation in Lakes
Roberto Conti; *Caroline Björnerås*; *Emma Kritzberg*

10:11-10:23 The fate of terrestrially derived organic carbon in a boreal lake – the role of iron mediated sedimentation
Caroline Björnerås; *Roberto Conti*; *Emma Kritzberg*

10:23-10:35 Greenhouse gas fluxes from the littoral zones of north-boreal lakes
Jack Chapman; *Samuel Haverinen*; *Henriikka Rokkonen*; *Mika Aurela*; *Kaisa-Riikka Mustonen*; *Annalea Lohila*; *Eeva-Stiina Tuittila*; *Sari Juutinen*

09:35-10:35 **5:5 Land-use transformation as a driver of catchment fluxes for water, nutrients, and carbon** , *Hörsal MIT.A.121*

09:35-09:50 The fluxes, reactivity, and age of particulate organic carbon in the Mackenzie River catchment
Leonardo Mena-Rivera; *Peter Webster*; *Callum Smith*; *Sabina Sulikova*; *Robert Hilton*

09:50-10:05 Riparian buffering and hydrological connectivity: Explaining divergent nitrate and DOC responses to forest dieback
Andreas Musolff; *Paul David Burkhardt*; *Lea Telsch*; *J.L. José Ledesma*

- 10:05-10:20 Increased export of nitrate and base cations in runoff from a harvested Norway spruce forest in southwest Sweden
Sofie Hellsten; Per Erik Karlsson; Cecilia Akselsson; Veronika Kronnäs; Gunilla Pihl Karlsson; Viktor Klemetz
- 10:20-10:35 Geochemical dynamics and colloidal transfer of major and trace elements in a small agricultural watershed.
Baptiste Alran; Eva Shreck; Rémy Berrabah; Oleg S Pokrovsky; Aubin Yettou; Jérôme Viers
- 09:35-10:35 20:5 Biogeochemistry and Ecology of Agriculture**, BIO.A.206 - Aula Anatomica
- 09:35-09:50 Time-integrated monitoring of nutrients and carbon in aquatic systems, using the novel TIMFIE-sampler
Emma Lannergård; Sara Sandström; Ove Jonsson
- 09:50-10:05 Seasonal Uptake of ¹⁵N-Labelled Inorganic versus ¹³C¹⁵N-Dual-Labelled Organic Nutrient Compounds by Freshwater Biota
Ana T. Castro-Castellon; Penny J. Johnes; Sydney J. Enns
- 10:05-10:20 Tracing the fate of fully ¹⁵N labelled organic fertiliser over a full growing season in 27 grassland plots
Julia Kepp; Ralf Kiese; Narda L. Pacay-Barrientos; Rudi Schäufele; Michael Schloter; Stefanie Schulz; Steffen A. Schweizer; C. Florian Stange; Michael Dannenmann
- 10:20-10:35 Enhancing soil methane uptake by “steering” the soil microbiome
Paul Bodelier; Stijn van den Bergh; Iris Chardon; Gerard Korthals; Wietse de Boer
- 09:35-10:35 4:5 Insects, Wind and Fire: Disturbance effects on biogeochemistry**, KBC301-Lilla hörsalen
- 09:35-09:50 Effect of wildfire on mercury soil pools in National Park Bohemian-Saxon Switzerland, central Europe
Tomáš Navrátil; Michal Roll; Jan Rohovec; Miloslav Devetter; Marek Tuhy; Vojtech Ettl
- 09:50-10:05 Disturbance-Driven Increases in Soil Water Nitrate Following Clear-Cutting, Storms, and Insect Outbreaks
Veronika Kronnäs; Sofie Hellsten; Cecilia Akselsson; Per Erik Karlsson; Gunilla Pihl Karlsson; Viktor Klemetz
- 10:05-10:20 Forest Decline Reshapes the Composition and Chemodiversity of Dissolved Organic Matter in Aquatic System
Wenrui Yao; Ronald Krieg; Paul David Burkhardt; Andreas Musolff; Oliver Lechtenfeld
- 10:20-10:35 Molecular trends of dissolved organic matter in a forested catchment from 40 years of integrated stream water monitoring
Laura Kahle; Angelika Kölbl; Burkhard Beudert; Benny Selle; Oliver Lechtenfeld
- 09:35-10:35 17:1 Biogeochemistry of enhanced mineral weathering and other natural climate solutions**, KBC303-Stora hörsalen
- 09:35-10:05 How biota shapes the rates and effects of enhanced mineral weathering
Mathilde Hagens;
- 10:05-10:35 The mineral players and their roles in Enhanced Rock Weathering
David Manning;
- 09:35-10:35 13:2 Cold (high latitude/altitude) ecosystems in transition**, Hörsal NAT.D.410
- 09:35-09:50 Early biogeochemical and vegetation indicators of methane cycling change during permafrost thaw in a subarctic peatland
Hannah DeFelice; Sam Bratsman; Piper Cobak; Jessica DelGrecco; Cal Distecamp; Evelyn Kent; Maizy Wilcox; Jessica G. Ernakovich; Maria Florencia Fahnstock; Michael W. Palace; Ruth Varner; Carmody McCalley
- 09:50-10:05 Geospatial assessment of methane emissions from degrading permafrost across the Arctic
Holly Dancer; Doreen Boyd; Vasudha Chaturvedi; Betsabe de la Barreda-Bautista; Matthias Siewert; Sofie Sjögersten; Stuart Marsh
- 10:05-10:20 Permafrost Thaw-Driven Transitions Control Mercury Storage in a Sub-Arctic Peatland
Maria Florencia Fahnstock; Yuleny Gomez Rodriguez; Mireya Sarai Ortega; Marlo Wilcox; Elijah Atley; Sam Bratsman; Julia G. Bryce; Hannah DeFelice; Jessica G. Ernakovich; Claudia Guillot-Wallace; Axel J. Leon-Rodriguez; Carmody McCalley; Michael W. Palace; Ruth Varner
- 10:20-10:35 Strontium Isotopes Trace Hydrological Connectivity in a Peatland Ecosystem Undergoing Permafrost Thaw
Claudia Guillot-Wallace; Maria Florencia Fahnstock; Darlyn Chavez; Jillian Jezior; Leah Fleming; Torin Scalora; Kyla Drum; Kitty Becker; Mireya Sarai Ortega; Yuleny Gomez Rodriguez; Elijah Atley; Marlo Wilcox; Bailey Mullins; Axel J. Leon-Rodriguez; Carmody McCalley; Kainani Tacazon; Brayden King; Dennise M. Serra Cordero; April Mendoza Mangaña; Cal Distecamp; Evelyn Kent; Alanna Nenadich Alvarez; Hannah DeFelice; Erik Froburg; Sam Bratsman; Jessica G. Ernakovich; McKenzie Kuhn; Kaetlyn Patnaude; Michael W. Palace; Cheristy Jones; Julia G. Bryce; Ruth Varner
- 09:35-10:35 2:1 Nitrogen biogeochemistry - links to other elements and biodiversity**, Hörsal NAT.D.440
- 09:35-10:05 Untangling the potential of reactive nitrogen loading to shift both productivity and redox cycling across ecosystems
Naomi Wells;
- 10:05-10:20 Decoupling microbial community structure and N cycling functional potential along a salinity gradient
Yolanda García-de Fuentes; Rosa Gómez; María Isabel Arce; Nicolás Valiente; Andreas Richter; Joan Ferriol-Ciurana; Frederic Gich

- 10:20-10:35 Nitrate and carbon differentially control microbial communities and N₂O emissions under anoxic conditions
Grace Pold; Martina Putz; Lea Wittorf; Arpita Maheshwari; Christopher M. Jones; Sara Hallin
- 09:35-10:35 9:1 Long-term forest health and extreme events**, Hörsal NAT.D.450
- 09:35-10:05 Managing Ecosystem Legacies to Enhance Forest Resilience under Changing Disturbance Regimes
Kalev Jõgiste; Sille Rebane; Floortje Vodde
- 10:05-10:20 Impact of droughts on forest health in western Central Europe using defoliation, tree-ring, and remote-sensing data
Emile Neimry; Mathieu Jonard; Hugues Goosse
- 10:20-10:35 Element dynamics in the soil-plant continuum after wildfires: Mechanisms involved in two pine ecosystems of Europe
Aubin Yettou; Nicolas Malard; Jérôme Viers; Nell Devillers; Baptiste Alran; Stéphane Audry; José Darrozes; Ana Atienza Pérez; Roque Pérez Palazón; Eva Schreck
- 10:35-10:45 Break**, Aula Nordica
- 10:45-11:45 10:1 Plant-Soil-microbial interactions as drivers of ecosystem processes**, Aula Nordica
- 10:45-11:15 Can microbial symbiont associations aid in our predictions of future forest function?
Michelle Wong;
- 11:15-11:45 Soil Biota and Carbon turnover: The Impacts of Tree Establishment on Organic Soils
Thomas Parker;
- 10:45-11:45 6:5 Carbon linkages between terrestrial and aquatic systems**, BIO.E.203 - Aula Biologica
- 10:45-10:57 Methane oxidation mitigates emissions from climate sensitive aquatic ecosystems
Ruth Varner; Rachel Younge; Cheristy Jones; Chelsea Oti; Samantha Bosman; Jeffrey Chanton; McKenzie Kuhn; Maria Florencia Fahnestock; Heyu Lin; Simon McIlroy; Tamara Marcus; Malak Tfaily; Gene Tyson; Virginia Rich
- 10:57-11:09 Waterpans as significant, new sources of greenhouse gas emissions in semi-arid landscapes in East Africa
Gretchen Gettel; Oswald Omuron; Collins Muhadia; Sonja Leitner; Klaus Butterbach-Bahl
- 11:09-11:21 Rising dissolved inorganic carbon in Alpine rivers over decades evidence increased soil respiration by climate warming
Frank Hagedorn; Timo Rhyner; Florian Storck; Alexander Brunmayr; Roman Flury; Luisa Minich; Juerg Zobrist; Annegret Udke; Tim Eglinton
- 11:21-11:33 Patterns and drivers of CO₂ and CH₄ concentrations and fluxes across 27 United States streams
Amanda DelVecchia; Yuseung Shin; Emily Bernhardt
- 11:33-11:45 Strong Aquatic Greenhouse Gas Gradients in a Glaciated, Stratovolcano Catchment of the Tropical Andes
Diego Riveros-Iregui; Braulio Lahuatte; Penelope Brocco; Ellis Clark; Dylan Martin; Jesse Williams; Weicheng Xu
- 10:45-11:45 5:6 Land-use transformation as a driver of catchment fluxes for water, nutrients, and carbon**, Hörsal MIT.A.121
- 10:45-11:00 Nitrate leaching from new forests on former cropland – surveys and long-term monitoring
Per Gundersen;
- 11:00-11:15 Woody encroachment strips soil carbonates, shifts organic carbon pools, and amplifies soil moisture whiplash
Pamela L. Sullivan; Jesse Nippert; Xander Takver; Karla Jarecke; Rachel Keen; Caitlin M. Mayernik; Kayalvizhi Sadayappan; Xi Zhang; Saranya Puthalath; Hoori Ajami; Alejandro Flores; Daniel R. Hirmas; Lixin Jin; Lin Ma; Kamini Singha; Matthew Kirk; Li Li; Sharon Billings
- 11:15-11:30 Soil and ecosystem carbon sequestration over 50 years in resampled oak and Norway spruce afforestation chronosequences
Lars Vesterdal; Yamina M. Rosas; Sebastian K. Rojas; Carsten W. Mueller; Gerrit Angst; Teresa Gómez de la Bárcena; Per Gundersen; Inger K. Schmidt; Ming Yu
- 11:30-11:45 Woodland creation scheme in the Yorkshire Dales successfully focuses tree planting on soils with lower carbon stock.
Francesca Darvill; Catherine Scott; Pippa Chapman; Tamba Komba; John Crawford; Robert Mills; Robyn Wrigley; Alec Pue
- 10:45-11:45 7:2 Natural and restored peatland - effects on carbon cycling, hydrology, greenhouse gases and biogeochemistry**, BIO.A.206 - Aula Anatomica
- 10:45-11:15 From drainage to recovery: understanding greenhouse gas dynamics in changing peatlands
Annalea Lohila;
- 11:15-11:30 GHG emissions from drainage ditches in peatland grasslands and croplands in Latvia
Raitis Melniks; Arta Bārdule; Andis Lazdiņš

- 11:30-11:45 Can nutrient status predict if rewetting of boreal and hemi-boreal drained peatlands lowers net greenhouse gas impact?
Irena F. Creed; Betty Ehnvall; Shizhou Ma; Marcus Wallin; George Arhonditsis; Koffi Dodji Noumonvi; Matthias Peichl; Cheuk Hei Marcus Tong; Järvi Järveoja; Amelie Lindgren; Per Weslien; Lorenzo Veglio; Anneli Ågren; William Lidberg
- 10:45-11:45 4:6 Insects, Wind and Fire: Disturbance effects on biogeochemistry**, KBC301-Lilla hörsalen
- 10:45-11:45 17:2 Biogeochemistry of enhanced mineral weathering and other natural climate solutions**, KBC303-Stora hörsalen
- 10:45-10:57 Catchment-Scale Solute Export Dynamics Following ERW Application
Robert A. Rioux; Fengcaho Sun; William Miller–Brown; Wyatt Tatge; Quinn C. Zacharias; Sarah B. DeSanto; Sam J. Sidders; James B. Shanley; Noah Planavsky; Peter Raymond; James Saiers
- 10:57-11:09 Towards Coupled Organic–Inorganic Modeling of Carbon Cycling In Enhanced Rock Weathering Soils
Charline Vandenhove; Tom Cox; Laura Steinwider; Arthur Vienne; Lucilla Boita; Ivan Janssens; Sara Vicca
- 11:09-11:21 River silica concentrations rise with warming temperatures: potential geochemical mechanisms
Sara Warix; Alexis Navarre-Sitchler
- 11:21-11:33 Stronger together: does the acid-buffering capacity of biochar and compost affect the interaction with steel slags?
Bart Vandecasteele; Jasper Roussard
- 11:33-11:45 A watershed model for enhanced rock weathering in acidified ecosystems
Samuel Shaheen; Wyatt Tatge; Charles Driscoll; Sergi Molins; Peter Raymond; James Saiers
- 10:45-11:45 13:3 Cold (high latitude/altitude) ecosystems in transition**, Hörsal NAT.D.410
- 10:45-11:00 Catchment-scale patterns of soil development explain soil organic carbon distribution in alpine landscapes
Stella Braunschweig; Sebastian Doetterl; Katrin Meusburger; Sara Bonetti; Marijn Van de Broek
- 11:00-11:15 Natural Acid Rock Drainage in the Pyrenees: From Hydrogeological Sources to Stream Ecosystem Impacts
José Luis Guijosa-Ortega; Joan Ferriol-Ciurana; Mar Oliva-Albert; Estela Alemany-Sendra; Alba Bachs-Garriga; Nicolás Martyniuk; Anna M. Romaní; Ada Pastor
- 11:15-11:30 The sensitivity of β -glucosidase activity to temperature in alpine mat-forming cryptogams
Pablo Ragué; Nathan Christmas; Rebecca Yahr; Kathleen Buckeridge; Robert Mills
- 11:30-11:45 Evolving groundwater-surface water dynamics in the Upper Colorado River Basin
Olivia Miller; Matthew Miller; Patrick Longley; Noah Schmadel; Daniel Wise; Morgan McDonnell; Jay Alder
- 10:45-11:45 2:2 Nitrogen biogeochemistry - links to other elements and biodiversity**, Hörsal NAT.D.440
- 10:45-11:00 The role of the microbiome in the nitrogen cycle of a tropical peatland forest and an oil palm plantation in South Asia
Kien Yung Teo; Mikk ESPENBERG; Kärt Kanger; Jaan PÄRN; Elizabeth Gachibu Wangari; Sebastian Kalang William; Kaido Soosaar; Muhammad Kamil-Sardar; Lulie Melling; Ulo Mander
- 11:00-11:15 Long-term changes in the internal fluxes and stream water export from a montane tropical forest
William McDowell; Adam Wymore; Bianca Rodriguez-Cardona; Grizelle Gonzalez; Jody Potter
- 11:15-11:30 Investigating reactive nitrogen sources, concentrations, and biogeochemical cycling across South African ecosystems
Chris Curtis; Rebecca Garland; Mogesh Naidoo; Katye Altieri; Phesheya Dlamini; Gregor Feig; Kerneels Jaars; Lerato Sekhohola; Pelonomi Sakwe; Christiaan van Niekerk; Shaza Qalela; Doreen Tarimo; Koketso Ramabopa; Tamryn Hamilton; Cara La Grange; Pedro Bixirao Neto Marinho Lebre; Warren Joubert; Helga Knoetze; Amukelani Maluleke; Kathleen Smart; Pieter van Zyl; Nomsa Muthelo; Mulisa Mudau; Jabulile Leroko
- 10:45-11:45 9:2 Long-term forest health and extreme events**, Hörsal NAT.D.450
- 10:45-11:00 The First Line of Defence: How Stored Tree Water Mediates Boreal Forest Resilience to Extreme Weather
Jose Gutierrez Lopez; Hjalmar Laudon
- 11:00-11:15 Water, carbon, and light use efficiencies in an old hemiboreal forest: 9-year patterns under hydroclimatic variability
Svyatoslav Rogozin; Alisa Krasnova; Ulo Mander; Kaido Soosaar
- 11:15-11:30 Long-term soil chemistry at three forest sites as influenced by harvest intensity – HD-MINTEQ modelling
Jon Petter Gustafsson; Carin Sjöstedt; Therese Sahlén Zetterberg; Stefan Löfgren
- 11:45-13:00 Lunch**, Aula Nordica
- 12:00-12:45 WOMEN in STEM**, Hörsal NAT.D.410
- 13:00-13:45 Plenary - Abrupt ecological changes in the North Temperate Lakes Long-Term Ecological Research site lakes**, Aula Nordica
Emily Stanley;
- 13:45-13:55 Break**, Aula Nordica
- 13:55-14:55 6:6 Carbon linkages between terrestrial and aquatic systems**, BIO.E.203 - Aula Biologica

- 13:55-14:07 Integration of terrestrial and aquatic carbon fluxes in a boreal headwater catchment
Heleen de Wit; Elisabeth-Christina Wörner; Xiang Lu; Areti Balkoni; Leah A. Jackson-Blake; Terje K. Berntsen; Holger Lange; Dag O Hessen
- 14:07-14:19 Lakes Amplify Carbon Emissions Relative to Downstream Export in Aquatic Networks
Fredrik Alriksson; Gerard Rocher-Ros; Marcus Klaus; Cristian Gudas; Vaclava Hazukova; Dominic Vachon; Lina Polvi; Martin Rosvall; Jan Karlsson
- 14:19-14:31 Streams in forested headwater catchments: Enhanced monitoring with machine learning
Tobias Houska; Laura Degenkolb; Erik Nestler; Annelie Ehrhardt; Livia Vieira Carlini Charamba; Conrad Jackisch; Maximilian Lau; Klaus Kaiser; Karsten Kalbitz
- 14:31-14:43 Illuminating interconnected lateral and vertical carbon fluxes in an alpine headwater catchment under climate extremes
Valerie Smykalov; Ben Bond-Lamberty; Rodrigo Vargas; Li Li
- 14:43-14:55 Quantifying aquatic carbon evasion losses from temperate hardwood forest catchments within the Turkey Lakes Watershed
Kara Webster; Erik Emilson; Jason Leach
- 13:55-14:55 5:7 Land-use transformation as a driver of catchment fluxes for water, nutrients, and carbon**, Hörsal MIT.A.121
- 13:55-14:10 Coupled Iron–Silicon–Carbon Cycling in Boreal Rivers: Effects of Damming and Colloidal Transport
Antonia C. Schell; Carl-Magnus Mörth; Jotis Baronas; Wen-Hsuan Liao; Wei-Li Hong
- 14:10-14:25 The Hypholoma effect: Linking wood decomposing fungi to mobilization of organic matter from ditched peatlands
Antonios Myridakis; Johanna Gaber; Håkan Wallander; Emma Kritzbeg; Dimitrios Floudas
- 14:25-14:40 Soil CO₂ and CH₄ effluxes in powerline rights-of-way and their adjacent forests
Antoine Harel; Evelyne Thiffault; David Paré; Renée Hudon; Maude Larochelle; Yann Chavaillaz
- 14:40-14:55 Soil legacies of Indigenous forest gardening in the patchwork mosaic landscape of Xsi Madii Lii
Jean-Thomas Cornelis; Chelsey Armstrong; Alyssa Robinson; David Lefebvre
- 13:55-14:55 7:3 Natural and restored peatland - effects on carbon cycling, hydrology, greenhouse gases and biogeochemistry**, BIO.A.206 - Aula Anatomica
- 13:55-14:10 Impacts on methane biogeochemistry following rewetting of drained boreal peatlands
Mats Öquist; Tong Liu; Jacob Smeds; Stefan Bertilsson
- 14:10-14:25 The role of plant phenology in regulating methane emissions in a boreal peatland
Antonia Hartmann; Sandra Jämtgård; Mats Öquist; Järvi Järveoja; Madhavi L. Gandla; Stefan Stagge; Matthias Peichl
- 14:25-14:40 Seasonality of Root-Mediated Methane Emissions in Peatlands
Johannes Cunow; Eeva Järvi-Laturi; Maria Väisänen; Johan Olofsson; Torben Christensen; Gesche Blume-Werry
- 14:40-14:55 Shift from Sphagnum to shrub-dominated peatlands under long-term warming alters the carbon balance of peatlands
Nina Overtoom; Ben Keane; James Moir; Peter Levy; Justin Lyons; Sylvia Toet; Simon Caporn; Nancy Dise
- 13:55-14:55 10:2 Plant-Soil-microbial interactions as drivers of ecosystem processes**, KBC303-Stora hörsalen
- 13:55-14:15 Ubiquitous priming of soil organic matter in situ driven by mycorrhizosphere processes across arctic vegetation types.
Louis Mielke; Thomas Parker; Mark Garnett; Andy Taylor; Lorna Street; Philip Wookey
- 14:15-14:35 A carbon utilization and nitrogen acquisition trait spectrum for ectomycorrhizal fungi
Karolina Jörgensen; Karina E. Clemmensen; Petra Fransson; Stefano Manzoni; Håkan Wallander; Björn Lindahl
- 14:35-14:55 The hunger games: Carbon allocation trade-offs between plants and ectomycorrhizal fungi make trees vulnerable to drought
Ylva Lekberg; Mary Ellyn DuPre; Alex Goke; Roger Koide; Gerard Sapés; Johannes Rousk; Philip Ramsey; Anna Sala
- 13:55-14:55 13:4 Cold (high latitude/altitude) ecosystems in transition**, Hörsal NAT.D.410
- 13:55-14:15 Effects of experimental stream bed drying on decomposition and chlorophyll-a accrual in boreal headwater stream
Ruben Baan Hofman; Ryan Sponseller; Brendan McKie; Lenka Kuglerová
- 14:15-14:35 Small buffers, large effects: Riparian microclimate in boreal headwaters under forest disturbance
Lenka Kuglerová; Bridget White; Eliza Maher Hasselquist; Caroline Greiser
- 14:35-14:55 Climate mismatch alters above- and belowground carbon dynamics in Scots pine forests
Theresa S. Ibáñez; Michael Gundale; M. Rosario García Gil; Radim Sarlej; E. Petter Axelsson
- 13:55-14:55 2:3 Nitrogen biogeochemistry - links to other elements and biodiversity**, Hörsal NAT.D.440

- 13:55-14:10 Rising atmospheric CO₂ reduces nitrogen availability in boreal forests
Michael Gundale; Kelley Bassett; Sandra Jämtgård; Stefan Hupperts; Steve Perakis; Lars Östlund; Jonas Fridman
- 14:10-14:25 Nitrogen fingerprints in European forest vegetation
Thomas Dirnböck; Pieter Sanzduk
- 14:25-14:40 Plant species richness response to atmospheric nitrogen deposition as controlled by bedrock in the US and Czechia
Tomáš Chuman; Christopher Clark
- 14:40-14:55 Biogeochemical legacy and reversibility of conifer expansion in semi-arid grasslands and savannas
Jack Brookshire; Justin Gay; Dave McWethy; Karolyn Hilquist
- 13:55-14:55 9:3 Long-term forest health and extreme events**, Hörsal NAT.D.450
- 13:55-14:25 Drought-induced attenuation of vertical leaves $\Delta\delta^{13}\text{C}$ gradients in temperate tree canopies
Emily F. Solly; Felix Pohl; Flavio Bastos Campos; Peter Dietrich; Daniel Doktor; Laura Dienstbach; Corinna Rebmann; Anke Hildebrandt
- 14:25-14:40 Shifting seasonal water availability in Krycklan: high-frequency runoff inference and isotope endmember splitting
Niek Jesse Speetjens; Wouter Berghuijs; James Kirchner; Hjalmar Laudon
- 14:40-14:55 Growth and Species Dynamics in Temperate Forests Reflect Physiological Resilience to Atmospheric Change
Filip Ouhlehle; Pavel Šamonil; Otmar Urban; Rudolf Brázdil
- 14:55-15:15 Coffee**, Aula Nordica
- 15:15-16:15 8:1 Catchment biogeochemistry perspectives on decadal trends in air pollution; sulfate, nitrogen and mercury**, Aula Nordica
- 15:15-15:45 Are declines in atmospheric deposition of mercury, lead and cadmium reflected in trends in surface water concentrations?
Karin Eklöf; Claudia von Brömssen; Brian Huser; Staffan Åkerblom; Algirdas Augustaitis; Hans Fredrik Veiteberg Braaten; Heleen de Wit; Thomas Dirnböck; David Elustondo; Ulf Grandin; Adéla Holubová; Sirpa Kleemola; Pavel Krám; Veronika Kronnäs; Lars Lundin; Stefan Löfgren; Hampus Markensten; Filip Moldan; Gunilla Pihl Karlsson; Pernilla Rönnback; Salar Valinia; Jussi Vuorenmaa
- 15:45-16:00 The end of acidification?
Filip Moldan; Sara Jutterström; Chris Evans; Michael Peacock; Martyn Futter; Hans Hultberg; Bernard J. Cosby; Richard F. Wright
- 16:00-16:15 Half a Century of Changes in Soil Mercury Dynamics at the Hubbard Brook Experimental Forest
Connor Olson; Benjamin Geyman; Ju Hyeon Lee; Sophie Von Fromm; Colin Thackray; Chris Johnson; Elsie Sunderland; Charles Driscoll
- 15:15-16:15 6:7 Carbon linkages between terrestrial and aquatic systems**, BIO.E.203 - Aula Biologica
- 15:15-15:30 Fate of groundwater-derived CO₂ in a boreal stream: dominance of downstream export
Carolina Olid; Demian Hauptmann; Jan Karlsson; Marcus Klaus
- 15:30-15:45 Greenhouse gas and terpenoid emissions from subarctic rivers
Jukka Pumpanen; Taija Saarela; Wasi Hashmi; Huizhong Zhang-Turpeinen; Niko Kinnunen; Carlos Palacin-Lizarbe; Lukas Kohl; Maija Marushchak; Henri Siljanen; Xudan Zhu; Anne Ojala; Janne Rinne; Frank Berninger
- 15:45-16:00 Effects of microbubble abundance on carbon dioxide and methane exchange between inland waters and the atmosphere
Marcus Klaus; Philipp Steffen Keller; Georgiy Kirillin; Mats Öquist; Hans-Peter Grossart; Martin Lienenlücke; Stella Angela Berger; Jens Christian Nejtgaard; Mohammad Atif Khan
- 16:00-16:15 Quantifying DOC, CO₂, and CH₄ concentration-discharge relationships in regulated rivers
Kulangana Theivendrarajah; Megan Klaar; Lee E. Brown; Taylor Maavara
- 15:15-16:15 7:4 Natural and restored peatland - effects on carbon cycling, hydrology, greenhouse gases and biogeochemistry**, BIO.A.206 - Aula Anatomica
- 15:15-15:30 Could rewetting peatlands mobilize legacy pollutants from atmospheric deposition?
Virginia Mosquera; Hjalmar Laudon
- 15:30-15:45 From atmosphere to fish: Mercury cycling across a boreal terrestrial-aquatic continuum
Liisa Ukonmaanaho; Katriina Kyllönen; Tero Tuomivirta; Tuula Larmola
- 15:45-16:00 Evaluating impacts of peatland rewetting on methylmercury in surface water
Mengxi Wang; Karin Eklöf; Marcus Wallin; Gustaf Granath
- 16:00-16:15 Impacts on ecosystem C pools, GHG fluxes and soil biogeochemistry after willow shrub encroachment in a drained peatland
Annelie Skov Nielsen; Klaus Steenberg Larsen; Jesper Riis Christiansen
- 15:15-16:15 12:1 What do ephemeral flow systems mean for the catchment approach to understanding ecosystems**, KBC301-Lilla hörsalen

- 15:15-15:45 Dynamic River Networks and the Geometry of Catchment Response
Gianluca Botter; Alessandro Cenzon; Francesca Barone; Nicola Durighetto
- 15:45-16:00 Origins of Wetted Extent-Discharge Hysteresis: The Roles of Hillslope Storage, Network Hydraulic Scaling, and Climate
David Dralle; W. Jesse Hahm; Dana Lapidés
- 16:00-16:15 Stream Seeding: Integrating Deep Learning and Topographically Based Flow Routing from Learned Features
William Lidberg;
- 15:15-16:15 10:3 Plant-Soil-microbial interactions as drivers of ecosystem processes**, KBC303-Stora hörsalen
- 15:15-15:35 Peatland ditching alters plant communities and enhances peat carbon mobilisation via ericoid mycorrhizae
Alice Gredeby; Antonios Myridakis; Dimitrios Floudas; Håkan Wallander; Emma Kritzberg
- 15:35-15:55 Evidence for increased internal nitrogen cycling and retention under plant species mixtures
Ashley D. Keiser; Neda Nikpour Rashidabad; Hannah Naughton; Masoud Hashemi
- 15:55-16:15 How has a century of forest management affected soil fungal communities in boreal forests?
Vincent Buness; Tamlyn Gangiah; Björn Lindahl; Maja Sundqvist; Torbjörn Josefsson; Daniel Metcalfe; Marie-Charlotte Nilsson; Michael Gundale
- 15:15-16:15 2:4 Nitrogen biogeochemistry - links to other elements and biodiversity**, Hörsal NAT.D.440
- 15:15-15:30 Old organic matter of temperate forest soils is very rich in nitrogen
Marie Spohn; Carina Josefsson Ortiz; Carlos Sierra
- 15:30-15:45 Legacy effects of anthropogenic nitrogen deposition on microbial mechanisms mediating soil carbon storage
Brooke Propson; Annalisa Stevenson; Aimée Classen; Andrew Burton; Donald Zak; Zachary Freedman
- 15:45-16:00 Nitrogen additions reduce plant belowground carbon allocation and the C cost of N uptake in a longterm N x pH experiment
Christine Goodale; David Frey; Stephanie Freund; Matthew Hecking; Eden Kebede; Timothy Fahey; Evan Perkowski; Nicholas Smith; Benjamin Hafner; William King; Taryn Bauerle; Alyssa de Villiers; C. Enid Martinez
- 16:00-16:15 Nitrogen budgets and the link to carbon sequestration in Nordic forests
Filip Moldan; Sara Jutterström; Johanna Stadmark; Anu Akujärvi; Martin Forsius; Kari Austnes; Heleen de Wit; Jesper Leth Bak
- 15:15-16:15 9:4 Long-term forest health and extreme events**, Hörsal NAT.D.450
- 15:15-15:30 Comparing estimates of gross primary production in a mature Norway spruce plantation in hemiboreal Sweden
John Marshall; Tobias Rütting; Maj-Lena Finnander Linderson; Per Weslien; Lasse Tarvainen
- 15:30-15:45 Assessing future trajectories of Quebec forests with the EFISCEN-Space model
Evelyne Thiffault; Sara Filipek; Silke Jacobs; Gert-Jan Nabuurs; Mart-Jan Schelhaas
- 15:45-16:00 Deposition of base cations to Norway spruce forests in Sweden estimated with two different methods
Veronika Kronnäs; Andreas Schmitz; Per Erik Karlsson; Gunilla Pihl Karlsson; Sofie Hellsten; Cecilia Akselsson; Viktor Klemetz
- 16:15-17:15 Poster session and networking Session 2A (Skogis Kårhuset)**, Skogis Kårhus
- 1 Comparison of sources of reactive nitrogen in fog and rain based on isotope ratios and Bayesian modeling
Marketa Stepanova; Martin Novak; Iva Hunova; Bohuslava Cejkova; Frantisek Buzek; Ivana Jackova; Radim Seibert; Daniel Hladky; Blanka Krejci; Jakub Hruška; Frantisek Veselovsky; Jan Curik
 - 2 What is the role of water table in the ash fertilization growth response?
Anni Palvi; Paul Szejner; Eduardo Martínez-García; Hannu Hökkä; Annamari Lauren; Marjo Palviainen; Elina Sahlstedt; Päivi Väänänen; Sakari Sarkkola; Juha Heikkinen; Raisa Mäkipää; Aleksi Lehtonen
 - 3 Fertilization-induced shifts in hemiboreal forest ground vegetation: short- to mid-term patterns, environmental drivers
Guna Petaja;
 - 4 How does CH₄ and N₂O land-atmosphere exchange compare between polders and restored salt marshes at the Wadden Sea Coast?
Fay Lexmond; Peter Müller; Klaus-Holger Knorr
 - 5 Carbon sequestration during early forest establishment on abandoned agricultural land across a latitudinal gradient
Felicia Dahlgren Lidman; Monika Strömgren; Nils Fahlvik
 - 6 Connection of small Mediterranean coastal lagoons to surface and ground water at the watershed scale, impact on ecology
Frederic HUNEAU; Wassef BEN NASR; Emilie GAREL; Sebastien SANTONI; Viviana LIGORINI; Vanina PASQUALINI; Kay KNOELLER

- 7 Assessing Sources of Carbon and Disinfection Byproduct Precursors in Watersheds Supplying New York City Drinking Water
Kevin Ryan; Madelyne Bates; Gabrielle Black; Maanal Chowdhury; Ally Doolittle; Michelle Hladik; Ann Olsson; Angela Rienzo; Benjamin Reimer; Durelle Scott; Katherine Wardinski
- 8 From Farmland to Wetland: Insights from 15 Years of Continuous Monitoring of the Reestablished Lake Fil
Emma Polauke; Annemette Ballhorn Petersen; Benedicte Wiemann Olsen; Theis Kragh
- 9 The influence of deciduous vegetation cover on boreal riparian soils
Malgorzata Winkowska; Eliza Maher Hasselquist; Andreas Nylund; Ryan Sponseller
- 10 Rare Earth Elements in Riparian Wetlands – The influence of redox chemistry and dissolved organic matter composition
Anja Hortmann; Benny Selle; Hjalmar Laudon; Oliver Lechtenfeld; Harald Biester; Klaus-Holger Knorr
- 11 From widespread recovery to site-specific dynamics: changing drivers of organic carbon in high-latitude lakes
Anna Lackner; Claudia von Brömssen; Jens Fölster; Kevin Bishop; Karin Eklöf
- 12 Riparian Unit typologies can help inform assessments of soil macronutrient pools across geoclimatic gradients
Sara Trojahn; Zisis Gagkas; Allan Lilly; Philip M. Haygarth; Jess Davies; Johanna Pihlblad; Victoria Janes-Bassett; Andreas Musolff; Hjalmar Laudon; Marc Stutter
- 13 Tracing versus transformation: Exploring hillslope-stream connectivity across riparian zones in headwater catchments
Luisa Hopp; Alexey Kuleshov; Natasha Gariremo; Theresa Blume
- 14 Terrestrial–aquatic coupling controls Volatile Organic Compound emissions across subarctic river–riparian interfaces
Huizhong Zhang-Turpeinen; Niko Kinnunen; Carlos Palacin-Lizarbe; Anu Tiermas; Anne Ojala; Riikka Rinnan, University of Copenhagen; Janne Rinne; Jukka Pumpanen
- 15 Leveraging synoptic CO₂ and O₂ measurements in stream networks to quantify the lateral carbon transport from land
Gerard Rocher-Ros; Enrico Bertuzzo; Anna Lupon; Emma Lannergård; Hjalmar Laudon; Susana Bernal
- 16 Wetland Restoration in Europe – Four approaches
Liisa Ukonmaanaho; Tuula Larmola; Shubiao Wu; Fransisco Lopez; Ana Lillebø
- 17 Quantification of greenhouse gas fluxes in peatlands using ground-based and drone-based sensors
Valentin Heinzelmann; Elena Mierau; Mareike Kretschmar; Franziska Roßocha; Klaus-Holger Knorr
- 18 Methane flux dynamics in a northern boreal catchment during snow season
Milja Männikkö; Sari Juutinen; Anna Kontu; Sami Suopajärvi; Juha Hatakka; Mika Aurela
- 19 Influence of functional plant group richness on methane emissions from (rewetted) peatlands
Veronique Boon; Pascal Wintjen; Alexander Buzacott; Ype van der Velde
- 20 Long-Term Changes in Precipitation Chemistry: A Central European Perspective
Iva Hunova; Marek Brabec; Marek Maly; Hana Skachova
- 21 Tracing mercury in tropical trees – wood Hg concentrations across two contrasting forests in Costa Rica
Marta Pérez-Rodríguez; Antonia Schmidke; Juan Francisco Morales Arteaga; Harald Biester
- 22 Altered soil chemistry as a legacy of historic charcoal burning
Hana Johanis; Václav Tejnecký; Ondřej Drábek; Michaela Jiráčková; Šárka Heřmánková; Markéta Marečková; Jan Kopecký; Jakub Horák; Jiří Vaníček; Lukáš Vlček; Luděk Šefrna; Přemysl Bobek; Miroslav Dejmal; Peter Szabo; Roman Brejcha; Jakub Houška
- 23 Effectiveness and long-term performance of protective spirals in mitigating cervid damage to young forest stands.
Kārlis Dūmiņš; Toms Artūrs Štāls; Dagnija Lazdiņa; Austra Zuševica
- 24 Long-term monitoring of soil solution chemistry on the ICP Forests plots in Central Europe
Vera Fadrhonsova; Vit Sramek; Katerina Neudertova Hellebrandova; Radek Novotný
- 25 Activity and abundance of nitrous oxide reducing bacteria in epiphytic lichen *Platismatia glauca* of spruce forest
Vincenzo Abagnale; Carlos Palacin-Lizarbe; Dhiraj Paul; Johanna Kerttula; Jussi Ronkainen; Henri Siljanen
- 26 Active microbial nitrous oxide consumption captures nitrogen for plant tissues
Henri Siljanen; Krishnapriya Thiyagarasaiyar; Dhiraj Paul; Milja Keski-Karhu; Kaido Soosaar; Ulo Mander; Katerina MACHACOVA; Marja Tirola; Lukas Kohl; Henri Siljanen
- 27 Investigating the feedback between climate warming and productivity in Arctic lakes
Johan van Snippenberg; Katherine Stenehjelm; Vaclava Hazukova; Cristian Gudas; Jan Karlsson
- 28 ABOVEGROUND CARBON SEQUESTRATION IN HEMIBOREAL SILVER BIRCH AND NORWAY SPRUCE MIXED STANDS CHRONOSEQUENCE
Agnès Sepaste; Kristiina Aun; Mats Varik; Marek Uri; Aris Jansons; Veiko Uri

- 29 Spatio-temporal dynamics of GHG fluxes in a constructed wetland: comparison of automatic and manual static chambers
Tom Saade; *Rady Jean-Bart; Soren François; Kaido Soosaar; Ulo Mander; Cédric Chaumont; Sophie Guillon; Julien Tournebize*
- 30 The impact of permafrost thaw on carbon emissions and mineralisation of previously frozen peat
Arwen Henz; *Werner Borken; Hanna Lee; Serafina Anzinger; Lena Kaiser; Felix Schübler; Ricardo Soler-Salgado; Anna Vollmer; Cristian Estop-Aragonés*
- 31 Diverse Altitudinal Patterns and Drivers of Greenhouse Gas Dynamics in Southwest China Alpine Streams and Rivers
Ying Wang; *Chunlin Song; Yuhao Li; Genxu Wang; Yang Li; Xiangyang Sun; Wenzhi Wang; Gerard Rocher-Ros*
- 32 Spatial variation of carbon, root, plant residues and active aluminum in a Japanese cypress stand on the volcanic soil
Nanae Hosokawa; *Naoyuki Yamashita; Akihiro Imaya*
- 33 Deciphering weather vs. climatic controls on litter decomposition in Arctic ecosystems
Nicolas Bonfanti; *Judith Sarneel; Gesche Blume-Werry; Maja Sundqvist*
- 34 The fate of soil organic carbon after two years of Enhanced Rock Weathering on a temperate soil
Favour Etinkumoh; *Xavier Dupla; Emma Bonvin; Benjamin Möller; Jens S. Hammes; Tim Sweere; Jordon Hemingway; Sebastian Doetterl*
- 35 Natural tree regeneration after prescribed burning with tree retention in the European boreal forest
Nicola Kokkonen; *Jari Kouki*
- 36 Assessing depositional and post-depositional factors controlling Pb and Hg accumulation in Holocene peat records through PLS modelling
Noemí Silva-Sánchez; *Antonio Martínez Cortizas; Xosé Lois Armada; Raúl Pérez Torrado; Stephan Guedron; Olalla López-Costas*
- 37 Field and controlled study reveal scale-dependent effects of legume-digestate treatment in agroforestry on organic soils
Austra Zuševica; *Andis Bārdulis; Viktorija Vendiņa; Dagnija Lazdiņa; Kārlis Dūmiņš; Toms Artūrs Štāls*

17:15-18:15 Poster and Networking Session 2B (Skogis Kårhuset), Skogis Kårhus

- 1 Ecological impact of Oxygenation on Phosphorus Release and Accumulation in Lake Fure
Sofie Kamlarczyk; *Theis Kragh*
- 2 Hydrological and biogeochemical responses to drought and deforestation in two Central European headwater catchments
Anna Lamačová; *Leona Bohdálková; Filip Ouhlehle; Jakub Hruška*
- 3 Nitrogen stocks, budgets and fluxes of a hemiboreal Norway spruce forest
Tobias Rütting;
- 4 STANDARD HYDROCHEMISTRY ISN'T ENOUGH: AN INTEGRATED FRAMEWORK FOR NITROGEN BIOGEOCHEMISTRY STUDY AND SOURCE APPOINTMENT
Yuliya Vystavna; *Astrid Harjung; Bradley McGuire; Saira Butt; Dmitro Diadin; Frederic HUNEAU; Inaki Vadillo; Llamas Dios Marta; Ioannis Matiatos; Suzanne Ngo Boum Epse Nkot Biket; Bertil Nlend; Issoufou Ouedraogo; Seng Chee Poh; Viviana Re; Asunción Romanelli; Pekka Rossi; Tomas Vitvar; Wei Wen Wong; Johanna Zambrano*
- 5 Buffering Mechanisms Underlying Variable Lag Times of Biogeochemical Process Rate Responses to Inundation
Terry Loecke; *Amy Burgin*
- 6 Fire-induced redistribution of potentially toxic elements in soils of the Bohemian Switzerland National Park, Czechia
Marek Tuhy; *Vojtech Ettler; Tomáš Navrátil; Jan Rohovec; Vít Penížek; Martin Mihaljevic*
- 7 Effect of climate and land use on changes in water quality in forested headwater catchments in Finland
Katri Rankinen; *Tuija Mattsson; Martin Forsius*
- 8 The effect of Arctic wildfires on catchment hydrology: A paired catchment analysis on permafrost catchments
Luis Jose Fernando; *Johanna Mård*
- 9 Land-Use Change Through Ditching and Afforestation Increases Iron Mobilization in a temperate mire
Emmy Nilsson; *Antonios Myridakis; Alice Gredeby; Emma Kritzberg*
- 10 Removal of pharmaceuticals and PFAS in a full-scale constructed wetland system and its on-site intensified models
Adam Sochacki; *Jan Vymazal; Natalia Carolina Donoso Pantoja; Filip Mercl*
- 11 Understanding Controls on Lateral Carbon Export from Permafrost Peatlands Using an Ecosystem Model Sensitivity Analysis
Ian Shirley; *Zhen Li; Zelalem Mekonnen; Robert F. Grant; William J. Riley; Carolina Olid*
- 12 Unseen drivers of reservoir water quality
Catherine Moody; *Nicholle Bell; Josh Greenwood; Thorunn Helgason; Claire Moulton-Brown; Joe Taylor*

- 13 Streams in forested headwater catchments: Availability of organic nutrients
Livia Vieira Carlini Charamba; Tobias Houska; Klaus Kaiser; Tobias Krause; Gabriela Fontenla Razzetto; Pavel Krám; Jakub Hruška; Karsten Kalbitz
- 14 Seasonal shifts in aquatic microbial communities and connection to greenhouse gas dynamics in a subarctic stream network
Jonna Tauriainen; Samuel Haverinen; Sari Juutinen; Jeffrey Welker; Anna-Maria Pirttilä; Kaisa Lehosmaa; Janne Koskimäki; Kaisa-Riikka Mustonen
- 15 Impact of Forest harvesting methods on lake food webs
Laura Kettunen; Sami Taipale; Minna Hiltunen; Katja Pulkkinen
- 16 Assessing the suitability of environmental conditions for biological N₂-fixation in peatlands – N:P ratios in bog water
Martin Novak; Jiří Kopáček; Josef Hejzlar; Marketa Stepanova; Jan Curik; Frantisek Veselovsky
- 17 Summer temperatures largely drive annual methane emissions of a northern peatland fen
Angelika Kübert; Annalea Lohila; Henriikka Vekuri; Juha Hatakka; Tuomas Laurila; Timo Mäkela; Juuso Rainne; Sami Suopajärvi; Juha-Pekka Tuovinen; Mika Aurela
- 18 Documenting and developing methods for linking hydrology and dissolved organic carbon movements in a northern peatland
Petra Korhonen; Pertti Ala-Aho; Bjørn Kløve; Hannu Marttila
- 19 Deriving representative emission factors for vegetation types of moist and wet peatlands in central Europe
Lukas Guth; Arndt Piayda; Gerald Jurasinski; Bärbel Tiemeyer
- 20 Monitoring of Environmental Impact after Rewetting of Peat Extraction Area
Hannu Marttila; Annalea Lohila; Maarit Liimatainen; Anna-Kaisa Ronkanen; Heini Postila
- 21 Legacy soil lead and dissolved organic carbon control streamwater lead despite declining deposition
Leona Bohdálková; Anna Lamačová; Filip Ouhlehle; Jakub Hruška; Pavel Krám
- 22 Understanding the drivers of boreal forest growth from an eco-physiological perspective
Pedro Rosero; Hyungwoo Lim; Oskar Franklin
- 23 Mechanisms underlying divergent forest response to stand-replacing wildfire across climatic and topographic gradients
Hannah R Miller; Jinyun Tang; Zelalem Mekonnen; Nicholas Bouskill
- 24 Long-term monitoring of soil solutions in the Strengbach watershed: from acid rain to pests and drought issues.
Marie-claire Pierret; Adrien Saphy; Colin Fournet; Nina Amanou; Solenn Cotel
- 25 Investigating effects of declining sulfur deposition on methane cycling in lakes
Charlotta Hagström; Tong Liu; Anna Székely; David Bastviken; Stefan Bertilsson
- 26 The soil microbiome as a key to carbon drawdown in afforestation – Silva Nova and MycoForest concepts
Claus Beier; Per Gundersen
- 27 Soil heterotrophic respiration in a mixed hemiboreal Norway spruce-silver birch chronosequence
Mai Kukumägi; Agnes Sepaste
- 28 A trait-based framework for modeling microbial production and consumption of volatile organic compounds
Jonathan Donhauser; Steven Allison; Riikka Rinnan, University of Copenhagen; Jing Tang
- 29 Decade-long trend in decreasing carbon uptake in two mature boreal forests driven by divergent ecosystem responses
Koffi Dodji Noumonvi; Alisa Krasnova; Peng Zhao; Torgny Näsholm; Hjalmar Laudon; Matthias Peichl
- 30 Freeze-thaw events outpace warming in enhancing winter respiration of alpine soils
Petr Čapek; Eva Kaštovská; Michal Choma; Jiří Kubásek; Jiří Kopáček
- 31 Stable H and O isotope signals of DOM along salinity and oxygen gradients in the Mediterranean Sea
Karelys Umbria-Salinas; Astolfo Valero; Constantine Parinos; Ester Skylaki; Alexandra Gogou; Travis B. Meador
- 32 Biochar from wood, bone, and post-harvest residues: Impacts on soil health under variable moisture regimes
Martina Vítková; Niluka Wickramasinghe; Zuzana Vaňková; Petr Ouředníček; Lukáš Trakal
- 33 Aggregate-protected soil organic matter dominates mountain ecosystems
Anna Cibulková; Eva Kaštovská; Tomáš Hájek; Jiří Kopáček
- 34 Coupling hydrogen and oxygen stable isotope ratios as a proxy for unravelling organo-mineral interactions
Astolfo Valero; Daniel A. Petrash; Travis B. Meador
- 35 Phytolith-occluded organic carbon – an overlooked CO₂ removal pathway in Enhanced Rock Weathering?
Benjamin Möller; Xavier Dupla; Emma Bonvin; Favour Etinkumoh; Jens S. Hammes; Ingrid Smet; Sebastian Doetterl
- 36 To graze or not to graze: Soil carbon and nitrogen storage and cycling under grazing, grazer exclusion and mowing
Joanne A. O'Keefe; Frederik Nygaard Philipsen; Jesper Riis Christiansen; Klaus Steenberg Larsen; Sebastian K. Rojas; Yamina M. Rosas; Jeppe A. Kristensen; Elizabeth le Roux; Yue Cheng; Carsten W. Mueller; Lars Vesterdal

- 37 Nitrous oxide emissions from pigeon pea - maize rotation in response to conservation agriculture and biochar amendments

Talent Namatsheve; Vegard Martinsen; Jan Mulder; Alfred Obia; Peter Dörsch

19:00-22:00 **Conference dinner (Väven)**, *Aula Nordica*

Wednesday 10 June 2026

08:00-17:00 **Field Excursions**, *Field excursions*

Thursday 11 June 2026

07:45-08:15 **Registration**, *Aula Nordica*

08:15-08:30 **BIOGEOMON 13 and Poster Prize**, *Aula Nordica*

08:15-16:15 **Poster and Networking Session 3 (Universum)**, *Universum*

- 2 LWA 2 - What is in the atmosphere? Insights from co-located ACTRIS and ICOS stations at Svartberget
Nataliia Kozii;
- 3 LWA 37 - Forestry, streams and wetlands – building capacity through research, best practice management and communication
Elisabet Andersson;
- 4 RI 1 - The Krycklan Catchment Study – A unique Field Infrastructure for Forest, Soil and Water Research
JOHANNES TIWARI;
- 5 RI 29 - Long-term forest field experiments in Sweden
Maria Martell;
- 6 RI 3 - A field-based research platform for studying forest growth, carbon stocks and biodiversity in a managed forest landscape
Johannes Larson;

08:30-09:15 **Plenary - Place-based ecosystem research in the era of big data and machine learning**, *Aula Nordica*
James Kirchner;

09:15-09:35 **Coffee Break**, *Aula Nordica*

09:35-10:35 **1:1 Field Research Infrastructures for critical zone and aquatic ecosystems in transition**, *Aula Nordica*

09:35-10:05 The complementary power of extensive environmental monitoring and intensively instrumented observatories for understanding Earth systems in the Anthropocene
Kevin Bishop;

10:05-10:20 From Research Infrastructures to Living Labs: Linking Research, Society, and Climate Adaptation in Northern Landscapes
Tejshree Tiwari; Camilla Sandström; Hjalmar Laudon

10:20-10:35 ICOS-Sweden Research infrastructure stations Svartberget and Degerö
Fabio Boschetti; Eric Larmanou; Pernilla Lofvenius; Nataliia Kozii; Per Marklund; Matthias Peichl

09:35-10:35 **2:5 Nitrogen biogeochemistry - links to other elements and biodiversity**, *BIO.E.203 - Aula Biologica*

09:35-10:05 Global role of vanadium for cryptogamic nitrogen fixation in extratropical forests
Romain Darnajoux; Shannon Haynes; Marie Renaudin; Nicolas Magain; Sessina Dani; Spencer Koonin; Jolanta Miadlikowska; Yoshitaka Uchida; Takamitsu Ohigashi; Diane Haughland; François Lutzoni; Jean-Philippe Bellenger; Xinning Zhang

10:05-10:20 Moss-associated nitrogen fixation along a coastal dune gradient
Mingyue Yuan; Kathrine Raaschou; Kathrin Rousk

10:20-10:35 Microorganisms in the phyllosphere of Norway spruce controlling nitrous oxide dynamics
Henri Siljanen; Inga Paasisalo; Anuliina Putkinen; Christopher M. Jones; Lukas Kohl; Sara Hallin; Mari Pihlatie; Dhiraj Paul

09:35-10:35 **3:1 Biogeochemical responses to hydrological extremes - flood and drought**, *Hörsal MIT.A.121*

09:35-10:05 How do droughts affect water quality in large heavily managed catchments?
Chris Soulsby; Hanwu Zheng; Christian Marx; Maria Warter; Doerthe Tetzlaff

10:05-10:20 Solute and sediment responses to hydrologic extremes in human-impacted headwater streams
Magdalena Bieroza;

10:20-10:35 Hydrometeorological Extremes Drive Nutrient Decoupling Across Contrasting Catchments
Aleksandra Chamera; Paweł Jarosiewicz; Katarzyna Izydorczyk

- 09:35-10:35 7:5 Natural and restored peatland - effects on carbon cycling, hydrology, greenhouse gases and biogeochemistry** , *BIO.A.206 - Aula Anatomica*
- 09:35-09:50 How natural peatlands buffer floods and droughts
Jelmer Nijp; *Reinert Huseby Karlsen; Mats B. Nilsson; Kevin Bishop*
- 09:50-10:05 Integrated Evaluation of Hydrology, Vegetation and Carbon in Peatlands Using Remote Sensing and Water-Table Indicators
Lauri Ikkala; *Elina Lindsberg; Kirsti Korkka-Niemi; Lassi Pääkkilä; Hannu Marttila; Santtu Kareksela; Maija Lampela; Liisa Maanavilja*
- 10:05-10:20 Restoration of peatlands: flood regulation and carbon sinks - The new project ANTIPASTI
Stefano Basso; *Heleen de Wit; Enrico Bertuzzo*
- 10:20-10:35 Shallow Peatlands as Ecohydrological and Biogeochemical Sentinels of Climate Change
Mike Waddington; *Owen Sutton*
- 09:35-10:35 12:2 What do ephemeral flow systems mean for the catchment approach to understanding ecosystems** , *KBC301-Lilla hörsalen*
- 09:35-10:05 Hydrologic connectivity drives dissolved oxygen dynamics in headwater streams
Erin Seybold; *Connor Brown; Alexi Sommerville; Amy Burgin; Sam Zipper; Stephen Plont; Jonathan Benstead; Rebecca Hale; Delaney Peterson; Michelle Busch; C. Nathan Jones; Kristen Underwood; Donna Rizzo*
- 10:05-10:20 Flow or no-flow: does discharge regulate water chemistry in intermittent streams?
Li Li; *Kayalvizhi Sadayappan; Karla Jarecke; Rachel Keen; Saranya Puthalath; Walter Dodds; Matthew Kirk; Pamela Sullivan; Jesse Nippert; Erin Seybold*
- 10:20-10:35 Hydrology and biogeochemistry of non-perennial streams in humid, lowland headwaters of the southeastern US
C. Nathan Jones; *Delaney M Peterson; Kaci Zarek*
- 09:35-10:35 11:3 Land-atmosphere feedbacks: greenhouse gases, VOCs, particles and water** , *Hörsal NAT.D.320*
Chairs: Riikka Rinnan, University of Copenhagen; Jolanta Rieksta, University of Copenhagen
- 09:35-10:05 Unraveling Ecosystem Fluxes Under Climate Change tracing Spatiotemporal Dynamics and Soil–Plant–Atmosphere Interactions
ECOSENSE Team; *ECOSENSE Team*
- 10:05-10:20 Intra and interannual dynamics of carbon dioxide flux on a constructed wetland : An Eddy Covariance approach
Tom Saade; *Erwan Personne; Cédric Chaumont; Carmen Kalalian; Laura Bignotti; Kaido Soosaar; Ulo Mander; Julien Tournebize*
- 10:20-10:35 Ditch cleaning impacts on the spatial variability and partitioning of carbon fluxes in a boreal forest clear-cut
Alexander Pinkwart; *Matthias Peichl; Hjalmar Laudon; Järvi Järveoja*
- 09:35-10:35 8:2 Catchment biogeochemistry perspectives on decadal trends in air pollution; sulfate, nitrogen and mercury** , *Hörsal NAT.D.440*
- 09:35-09:50 Forty years of studying effects of sulphur and nitrogen deposition in freshwaters in Europe and North America
Kari Austnes; *Heleen de Wit; Rolf D. Vogt; Jens Arle; Areti Balkoni; Louise Franssen; Jens Fölster; Martyn Futter; Cathrine B. Gundersen; Scott Higgins; Dag Ø. Hjermann; Daniel Houle; Jakub Hruška; Sara Jutterström; Øyvind Kaste; Agnieszka Kolada; Filip Moldan; Don Monteith; Magnus Norling; Filip Ouhlehl; Andrew Paterson; Michela Rogora; Robert Sabo; James E. Sample; Sandra Steingruber; Jussi Vuorenmaa*
- 09:50-10:05 Past and future of an anthropogenically acidified spruce catchment with a vulnerable substrate
Pavel Krám; *Jakub Hruška; Katherine X. Pérez Rivera; Jan Curik; Frantisek Veselovsky; Oldřich Myška*
- 10:05-10:20 Four decades of hydrochemical response by UK upland waters to air pollution controls and trends in other stressors
Don Monteith; *Iwan Jones; John Murphy; Ewan Shilland; Rick Battarbee; Chris Evans*
- 10:20-10:35 Temporal trends in S and N deposition: effects on mountain Pyrenean aquatic systems and interactions with climate change
Carlos Palacin-Lizarbe; *Lluís Gómez-Gener; Lluís Camarero*
- 09:35-10:35 13:5 Cold (high latitude/altitude) ecosystems in transition** , *Hörsal NAT.D.450*
- 09:35-09:55 Abrupt Seasonal Changes in Stream Chemistry and Discharge in Discontinuous Permafrost Catchments
Anna Wright; *Tamara Harms*
- 09:55-10:15 CATCHMENT-SCALE CARBON BUDGETS ACROSS A RANGE OF HYDROCLIMATIC CONDITIONS IN THE ARCTIC
Vaclava Hazukova; *Fredrik Alriksson; Jean-François Boily; Amanda Gavin; Cristian Gudasz; Carolina Olid; Suzanne McGowan; Jasmine Saros; Jan Karlsson*
- 10:15-10:35 Freezing and flowing: Stories of Groundwater-Surface Water Exchange Impacts on Arctic Stream Chemistry
Jay Zarnetske; *Amelia Grose; Arsh Grewal*
- 09:40-10:25 10:4 Plant-Soil-microbial interactions as drivers of ecosystem processes** , *KBC303-Stora hörsalen*

- 09:40-09:55 Pulses of metabolites leached from forest floor mosses alter soil functioning and microbial community structure
Marianne Koranda; Sören Risse; Clara Priemer; Martin Brenner; Harald Zechmeister; Wolfgang Wanek
- 09:55-10:10 Contrasting responses of forest soils to tree harvesting along a gradient of carbon content
Petr Baldrian; Tijana Martinovic; Sandra Awokunle Hollá; Alexandre Raimbault; Raisa Mäkipää; Claus Bässler; Jörg Müller; Vendula Brabcová
- 10:10-10:25 Boreal moss and soil microbial communities show contrasting responses to transplantation across fertility gradients
Kathrin Rousk; Danillo Alvarenga; Aya Permin; Anders Prieme
- 10:35-10:45 Break**, Aula Nordica
- 10:45-11:45 1:2 Field Research Infrastructures for critical zone and aquatic ecosystems in transition (copy)**, Aula Nordica
- 10:45-11:15 eLTER RI as collaborative framework enabling transdisciplinary research on multiple environmental stressors
Michael Mirtl; Steffen Zacharias; Thomas Dirnböck
- 11:15-11:30 Swedish Infrastructure for Ecosystem Science (SITES): national hub for critical zone and aquatic science and open data
Blaize Denfeld; Marcus Wallin; SITES Community
- 11:30-11:45 Contribution of carbon from terrestrial ecosystems to climate change mitigation: The French program FairCarboN
Patricia Garnier; Pierre Barré
- 10:45-11:45 2:6 Nitrogen biogeochemistry - links to other elements and biodiversity**, BIO.E.203 - Aula Biologica
- 10:45-11:00 Deposition fluxes of mercury and major nutrients through litterfall of *Acacia dealbata* and *Quercus robur*
Andrea Parente Sendín; Lara Acemel Míguez; Anxo Castro Prado; Flora Alonso Vega; Juan Carlos Novoa Muñoz
- 11:00-11:15 Nutrient losses in a litter decomposition experiment: assessment among native and non-native species and Hg dynamics
Lara Acemel Míguez; Andrea Parente Sendín; Anxo Castro Prado; Juan Carlos Novoa Muñoz; Flora Alonso Vega
- 10:45-11:45 3:2 Biogeochemical responses to hydrological extremes - flood and drought**, Hörsal MIT.A.121
- 10:45-11:00 High and dry: Stream microbial community structure and function in response to long-term warming and intense drought
Nina Keck; Ariel Shogren; Annabel Schreiber; Jacqueline Todd; Mia Berwick; Kieran Khamis; Mark Ledger; Alexander Huryn; Jonathan Benstead; Wyatt Cross
- 11:00-11:15 ALTERATION OF HYDROLOGICAL, THERMAL AND METABOLIC REGIMES BY HYDROPOWER DAMS IN MOUNTAIN STREAMS.
Raquel Zarauza; Francisco J. Peñas; Amaia A. Rodeles; José Barquín
- 11:15-11:30 Extreme flows mask in-stream metabolic signal in CO₂-O₂ dynamics
Carolina Jativa; Susana Bernal; Gerard Rocher-Ros; Xavier Peñarroya; J.L. José Ledesma; Anna Lupon
- 11:30-11:45 Modelling continental-scale river metabolism: Arid extremes suggest rivers may uptake more carbon than hypothesized
Taylor Maavara; Zimin Yuan; Andrew Johnson; Shuang Zhang; Kelly Aho; Craig Brinkerhoff; Laura Logozzo; Peter Raymond
- 10:45-11:45 7:6 Natural and restored peatland - effects on carbon cycling, hydrology, greenhouse gases and biogeochemistry**, BIO.A.206 - Aula Anatomica
- 10:45-11:00 FTIR Insights into Organic Matter Composition and Decomposition in Peatlands
Petra Straková;
- 11:00-11:15 Species and water levels shape above- and belowground biomass and decomposition in temperate fen mesocosms
Gesche Blume-Werry; Jannis Raatz; Stephen Oyedeji; Laurenz Teuber; Sarah Schwieger; Juergen Kreyling
- 11:15-11:30 Hydrological connectivity and redox control on element fluxes from a ditched boreal wetland to a headwater stream
Sarah Conrad; Fredrik Nordblad
- 11:30-11:45 Effects of peatland rewetting on greenhouse gas emissions and soil microbial communities
Simon David Herzog; Clara Aguilar Vilar; Jonas Stage Sør; Theis Kragh; Carla Cruz-Paredes
- 10:45-11:45 12:3 What do ephemeral flow systems mean for the catchment approach to understanding ecosystems**, KBC301-Lilla hörsalen
- 10:45-11:00 Rethinking Catchment-Scale Oxygen Frameworks in a Non-Perennial Headwater Stream
Jasmine Krause; Cassandra Knutson; Steve Wonzell; Adam Ward

- 11:00-11:15 Assessing the validity of the catchment concept for the cycling of elements in a dry and periglacial landscape
Johan Rydberg; Emma Lindborg; Tobias Lindborg; Ylva Sjöberg
- 11:15-11:30 Streams in forested headwater catchments: Loading subsurface pools and their dynamic connection driving DOC mobilization
Conrad Jackisch; Sophie M. Stephan; Lena Herzig; Tobias Houska; Laura Degenkolb; Annelie Ehrhardt; Ingo Müller; Karsten Kalbitz; Maximilian Lau
- 11:30-11:45 Team Science in Action: How AIMS Advanced Understanding of Intermittent Stream Ecology Across Regions
Amy Burgin; AIMS Team
- 10:45-11:15 10:5 Plant-Soil-microbial interactions as drivers of ecosystem processes**, KBC303-Stora hörsalen
- 10:45-10:55 Breathing Bedrock Hillslopes: Deep Rooting Drives Subsurface Gas Dynamics Under a Seasonally Dry Oak Savannah
W. Jesse Hahm; Maya Montalvo; Daniella Rempe; John Whiting; Kiley Hearst; Kevin Mazzocco; Dana Lapides; David Dralle
- 10:55-11:05 Spatiotemporal microbial community dynamics: CH₄ and N₂O fluxes under experimental flooding in riparian forest soils
Kristel Reiss; Ulo Mander; Maarja Öpik; Siim-Kaarel Sepp; Kärt Kanger; Thomas Schindler; Kaido Soosaar; Mari Pihlatie; Klaus Butterbach-Bahl; Anuliina Putkinen; Ülo NIINEMETS; Mikk ESPENBERG
- 11:05-11:15 Water limitation intensity alters nitrogen cycling at the tree-soil interface in Scots pine mesocosms
Emily F. Solly; Astrid C. H. Jaeger; Matti Barthel; Johan Six; Ralf C. Mueller; Martin Hartmann
- 10:45-11:45 11:4 Land-atmosphere feedbacks: greenhouse gases, VOCs, particles and water**, Hörsal NAT.D.320
Chairs: Jolanta Rieksta, University of Copenhagen; Riikka Rinnan, University of Copenhagen
- 10:45-11:00 Tracing the Effects of Carbon, Water and Energy Cycle Interactions on the Climate
David Ellison; Sarah R Worden
- 11:00-11:15 Linking water quality and emissions of greenhouse gases from contrasting water bodies in a semi-arid, data-scarce region
Chris Curtis; Alexandra Carroll; Bridget Mukandiona; Nhlayiseko Maluleke; Brenton Faulds
- 11:15-11:30 Seasonal fluxes of VOCs, CH₄ and CO₂ in a Mediterranean saltmarsh
Yinghuan Qin; Riikka Rinnan, University of Copenhagen; Nuno Caiola; Pep Cabanes Vizcarro; Nil Alvarez Segura; Angèlica Busquets Rubiés; Sung-Ching Lee; Ariane Arias-Ortiz
- 11:30-11:45 Ebullitive methane in shallow agricultural reservoirs: rates, spatiotemporal variability, and drivers
Richard Helmle; Colin Whitfield; Nicholas Kinar
- 10:45-11:45 8:3 Catchment biogeochemistry perspectives on decadal trends in air pollution; sulfate, nitrogen and mercury**, Hörsal NAT.D.440
- 10:45-11:00 N-addition to the Alptal forest: some new results from an old paired-catchment experiment
Patrick Schleppi; Frank Hagedorn; Manfred Stähli; Peter Waldner; Ilja van Meerveld; Victor Gauthier; Marco Lehmann; James Kirchner
- 11:00-11:15 Climate change has led to increased weathering in subarctic lake catchments
Jens Fölster; Willem Goedkoop; Sven Adler; Danny C.P. Lau
- 11:15-11:30 Global change reshapes northern lakes towards browner, more nutrient-depleted and nitrogen-limited conditions
Ann-Kristin Bergström; Aleksey Paltsev; Dag O Hessen; Pirkko Kortelainen; Jussi Vuorenmaa; Heleen de Wit; Danny C.P. Lau; Tobias Vrede; Kristiina Vuorio; Peter D.F. Isles; Anders Jonsson; Erik Geibrink; Kimmo K. Kahilainen; Stina Drakare; Irena F. Creed
- 11:30-11:45 Are peatlands doomed to be Hg hotspots: Hg critical zone fate revealed with micromet, isotopes, genomics, and an ice-age
Kevin Bishop; Chuxian Li; Wei Zhu; Stefan Osterwalder
- 10:45-11:45 13:6 Cold (high latitude/altitude) ecosystems in transition**, Hörsal NAT.D.450
- 10:45-11:05 The ecology of river ice: Evaluating primary productivity under ice in a temperate river
Audrey Thellman; Tamlin Pavelisky; Emily Bernhardt
- 11:05-11:25 Identifying glacier and in-stream drivers of dissolved organic matter properties in global glacier-fed streams
Jingyi Hou; Hannes Peter; Nicola Deluigi; Matteo Tolosano; Tom Battin
- 11:25-11:45 Temperature sensitivity of extracellular enzymatic activity in cold-region streams: a global meta-analysis
Mar Oliva-Albert; Nuria Perujo; Sanja Böhringer; Anna Freixa; Giulia Gionchetta; Juanita Mora-Gómez; Joan Artigas; Anna M. Romani; Ada Pastor
- 11:45-13:00 Lunch**, Aula Nordica
- 13:00-13:45 Plenary - Exploring novel mechanisms behind surface water browning in northern landscapes**, Aula Nordica
Emma Kritzberg;
- 13:45-13:55 Break**, Aula Nordica

- 13:55-14:55 15:1 Source to Sea: The challenge of scaling catchment models for better water management**, *Aula Nordica*
- 13:55-14:15 Regional-Scale Assessment of Groundwater Effects on Surface Water Quality: A Use Case in the Upper Colorado River Basin
Matthew Miller; *Olivia Miller; Patrick Longley; Daniel Wise; Morgan McDonnell; Noah Schmadel; Jay Alder*
- 14:15-14:35 Many tools in the toolbox: Supporting water management across scales and disciplines
Andrea Brookfield;
- 14:35-14:55 Mechanisms regulating aquatic carbon across spatial and temporal scales in a boreal landscape
Hjalmar Laudon; *Jason Leach; Tejshree Tiwari; Ishi Buffam; Marcus Wallin; Anna Lupon; Martin Berggren; Kevin Bishop; Johannes Larson; Ryan Sponseller*
- 13:55-14:55 3:3 Biogeochemical responses to hydrological extremes - flood and drought**, *Hörsal MIT.A.121*
- 13:55-14:10 Interactions Between Vegetation, Flow and Nitrogen Biogeochemistry in Inundated Riparian Wetlands
Amy Hansen; *Bre Waterman; Erin Reinkemeyer*
- 14:10-14:25 Legacy effects of drought on solute exports and dissolved organic matter release from boreal riparian soils
Martin Škerlep; *Ryan Sponseller; Hjalmar Laudon*
- 14:25-14:40 Species and soil wetness shape tree growth responses to warming and drought in boreal old-growth forests
Hanna Axén; *Daniel Metcalfe; Anders Ahlström; Micael Jonsson*
- 14:40-14:55 Mixed Signals: Evaluating Wetland Influence on Stream Carbon and Nitrate During Storms in a Low-Relief Catchment
Jay Zarnetske; *Caroline Weidner; Arsh Grewal; Ariel Shogren*
- 13:55-14:55 7:7 Natural and restored peatland - effects on carbon cycling, hydrology, greenhouse gases and biogeochemistry**, *BIO.A.206 - Aula Anatomica*
- 13:55-14:10 Understanding the effect of ecosystem degradation and the effectiveness of restoration in tropical peatlands
Resti Salmayenti; *Dominick Spracklen; Joseph Holden; Andy Baird*
- 14:10-14:25 Microbial growth and carbon partitioning during peatland methane oxidation
Lukas Kohl; *Carlos Palacin-Lizarbe; Jonna Teikari; Dhiraj Paul; Nishadi Thalagahawatta Gam Acharige; Anuliina Putkinen; Mari Könönen; Henri Siljanen*
- 14:25-14:40 Vegetation recovery after peatland restoration and the associations with soil microbial communities
Aino Korrensalo; *Jenni Hultman; Tomáš Hájek; Ain Kull; Susanne Liebner; Jaak Truu; Marika Truu; Zuzana Urbanová; Tatjana Živković; Krista Peltoniemi*
- 14:40-14:55 Tree harvest decisions modulate the climate impact of rewetting in a low-productive peatland forest in boreal Sweden
Järvi Järveoja; *Alexander Pinkwart; Cheuk Hei Marcus Tong; Eduardo Martínez-García; Hjalmar Laudon; Matthias Peichl; Mats B. Nilsson*
- 13:55-14:55 1:3 Field Research Infrastructures for critical zone and aquatic ecosystems in transition**, *KBC303-Stora hörsalen*
- 13:55-14:10 Methane emissions from multi-biome lakes measured with comparable methodology within the SITES GHG flux program
Marcus Wallin; *David Bastviken; Blaize Denfeld; Holger Villwock; Jonathan Schenk; Leif Klemmedtsson; Hjalmar Laudon; Niels Aagard Jakobsen; Stefan Bertilsson; Kevin Bishop; William Colom Montero; Silke Langenheder; Amelie Lindgren; Erik Lundin; Niklas Rakos; JOHANNES TIWARI; Per Weslien*
- 14:10-14:25 Use of FALCON experimental catchments to evaluate restoration of critical zone in post mining ecosystem
Jimmi C. Oppong; *Jan Frouz*
- 14:25-14:40 National-scale evaluation of greenhouse gas emissions from surface waters: new concepts in LULUCF emission inventories
Martin Forsius; *Inese Huttunen; Markus Huttunen; Marie Korppoo; Antti Räike; Virpi Junttila; Pirkko Kortelainen; Katri Rankinen; Torsti Schulz*
- 13:55-14:55 11:5 Land-atmosphere feedbacks: greenhouse gases, VOCs, particles and water (Hörsal NAT.D.320)**, *Hörsal NAT.D.320*
- Chairs: Jolanta Rieksta, University of Copenhagen; Riikka Rinnan, University of Copenhagen*
- 13:55-14:10 Sustained carbon sequestration in deciduous riparian forest
Ulo Mander; *Mikk ESPENBERG; Alisa Krasnova; Thomas Schindler; Jordi ESCUER-GATIUS; Katerina MACHACOVA; Martin MADDISON; Jaan PÄRN; Ülo NIINEMETS; Valentina SAGRIS; Kaido Soosaar*
- 14:10-14:25 Elevated N₂O emissions from non-intervention forest compared to adjacent managed forest
Frederik Nygaard Philipsen; *Jesper Riis Christiansen; Klaus Steenberg Larsen; Per Gundersen*
- 14:25-14:40 Five-year dynamics of CO₂ and CH₄ exchange in a hemiboreal drained peatland forest
Alisa Krasnova; *Kaido Soosaar; Ulo Mander*
- 14:40-14:55 Cross-scale convergence in the carbon balance of managed boreal forests
Matthias Peichl; *Eduardo Martínez-García; Jinshu Chi; Natascha Kljun; Anne Klosterhalfen; Johannes Larson; Hjalmar Laudon; Guillaume Monteil; Anusha Sathyanadh; Marko Scholze; Jörgen Wallerman; Peng Zhao*

- 13:55-14:55 8:4 Catchment biogeochemistry perspectives on decadal trends in air pollution; sulfate, nitrogen and mercury** , Hörsal NAT.D.440
- 13:55-14:10 Hydrologic Controls on Mercury Speciation and Transport in a Beaver-Influenced Mountain Stream
Clifford Adamchak; Keira Johnson; John Christensen; Katherine Lininger; Eve-Lyn Hinckley
- 14:10-14:25 From sequestration to remobilization: Modeling the fate of mercury in soils under decadal environmental change
Laura Sereni; Bertrand Guenet; H  l  ne Angot
- 14:25-14:40 Assessing Agricultural Sulfur Applications as a Driver of Methylmercury Production
Jacqueline Gerson; Nettie Calvin; Douglas Castro; Casey Iwamoto; Jessica Rush; Peter Weiss-Penzias; Eve-Lyn Hinckley
- 14:40-14:55 Contrasting mercury sequestration dynamics in tropical dry and moist broadleaf forests
Marta P  rez-Rodr  guez; Juan Francisco Morales Arteaga; Grace Tatiana P  ez-Barrera; Matthias Beyer; Christian Birkel; Werner Huber; Mar  a Auxiliadora Z  niga Amador; Harald Biester
- 13:55-14:55 13:7 Cold (high latitude/altitude) ecosystems in transition** , H  rsal NAT.D.450
- 13:55-14:10 Ecogeochemistry in a changing Arctic – Can landscape geochemistry explain wildlife health and population demographics?
Sophia V. Hansson; Floris M. van Beest; Niels Martin Schmidt
- 14:10-14:25 Effects of open cage fish farming on northern lake nitrogen dynamics and plankton productivity
Maria Myrstener; Gunnar   hlund; Marcus, G.   sberg; Josefin Zentner; Hanna Carlberg; Karin, A. Nilsson
- 14:25-14:40 Tundra methane exchange under warming climate and changing herbivore pressure
Laura Cappelatti; Elina Kaarlej  rvi; Inka Tammisto; Anu Eskelinen; Henni Yl  nne
- 14:40-14:55 Optimize decision-making by integrating modelled carbon balance estimates and EO data in natural habitats
Kristin B  ttcher; Virpi Junttila; Saku Anttila; Martin Forsius; Torsti Schulz; Anu Akuj  rvi; Petteri Vihervaara
- 14:55-15:15 Coffee** , Aula Nordica
- 15:15-16:15 15:2 Source to Sea: The challenge of scaling catchment models for better water management**, Aula Nordica
- 15:15-15:30 Headwaters as hotspots? Revisiting the evidence for DOC reactivity declining with water retention time
Leah A. Jackson-Blake; James E. Sample
- 15:30-15:45 From river basins to continents: quantifying water and nutrient co-cycling with isotope-enabled ecohydrological modeling
Songjun Wu; Doerthe Tetzlaff; Chris Soulsby
- 15:45-16:00 Simulation of carbon cycling and CO2 emissions in/from the aquatic environment
Marie Korppoo; Inese Huttunen; Markus Huttunen; Martin Forsius
- 16:00-16:15 Hydrodynamic bypass and multi-gas decoupling in a tropical mega-delta: divergent greenhouse gas processing pathways
Truong-An Nguyen; Julien N  mery; Roberto Grilli; Tam T.M. Le; Viet Tran-Khac; Josette Garnier
- 15:15-16:15 3:4 Biogeochemical responses to hydrological extremes - flood and drought**, H  rsal MIT.A.121
- 15:15-15:35 Effects of summer droughts on nitrate retention and export from a mesoscale catchment in Germany
Jan Fleckenstein; Carolin Winter; Tam Nguyen; Andreas Musolff
- 15:35-15:55 Can stream warming trigger internal nutrient remobilisation from sediments
Ziwei Liao; Gabriele Weigelhofer; Gregor Laaha; Magdalena Bier
- 15:55-16:15 Excursions from predictability: Spatial scaling of solute mobilization and transport in a headwater watershed
Jazzmyn Luna; Alex Webster; Manuela Londo  o; Adam Wymore
- 15:15-16:15 7:8 Natural and restored peatland - effects on carbon cycling, hydrology, greenhouse gases and biogeochemistry** , BIO.A.206 - Aula Anatomica
- 15:15-15:30 Impact of afforestation on land-atmosphere exchange of greenhouse gases and energy at a peat extraction site
Alexander Buzacott; Kari Laasasenaho; Risto Lauhanen; Kari Minkkinen; Paavo Ojanen; Gopal Adhikari; Liisa Jokelainen; Lassi P  kkil  ; Hannu Marttila; Annalea Lohila
- 15:30-15:45 Peatland forest management and restoration for enhanced carbon sequestration, biodiversity and water quality
Tuula Larmola; Jyrki Jauhiainen; Parvez Rana; Ashraf Al Alam; Liisa Ukonmaanaho
- 15:45-16:00 Tree stand mortality in rewetted boreal peatland forests
Otto Liutu; Paavo Ojanen; Topi Tanhuanp   ; Kari Minkkinen
- 15:15-16:15 1:4 Field Research Infrastructures for critical zone and aquatic ecosystems in transition**, KBC303-Stora h  rsalen
- 15:15-15:30 A comparative research infrastructure to study subsurface stormflow
Theresa Blume; Peter Chiffard; Stefan Achleitner; Andreas Hartmann; Stefan Hergarten; Luisa Hopp; Bernhard Kohl; Florian Leese; Christian Reinhardt-Imjela; Ilja van Meerveld; Markus Weiler

- 15:30-15:45 French National Network of Critical Zone Observatories OZCAR : from monitoring to sharing one common perception
Julien Tournebize; Damien Jougnot; Braud Isabelle; Heloise Benard; Brice Boudevillain; Agnès Rivière; Jean Marcais; Eliot Chatton; Sylvain Pasquet; Julien Bouchez; Jérôme Gaillardet
- 15:45-16:00 Leveraging Swedish agricultural long-term field experiments to understand agro-ecosystems in transition
Sabina Braun; Johanna Wetterlind
- 16:00-16:15 The Northern Node with the Grazing Living Lab – a flexible and vital infrastructure for field research
Juana Chagas; Märten Hetta; Keni Ren; Karly Liffen; Julianne Oliveira; Laurens Post; David Parsons
- 15:15-16:15 13:8 Cold (high latitude/altitude) ecosystems in transition**, Hörsal NAT.D.450
- 15:15-15:30 Beyond climate and biomass: soil geochemistry drives soil organic carbon stocks in Arctic tundra ecosystems
Annina Maier; Moritz Mainka; Marijn Van de Broek; Aline Frossard; Sebastian Doetterl
- 15:30-15:45 Soil biochemistry differs with root and fungal hyphal growth or exclusion in shrub- and sedge- dominated tundra
Laura Turner; Larissa Frey; Rica Wegner; Lewis Sauerland; Birgit Wild
- 15:45-16:00 Warming Alters the Circum-Arctic Methane Balance
Jan Dietrich; Ellen Dorrepaal; Sybryn Maes; Judith Sarneel; Sarah Schwieger; Joel White; Mats Björkman
- 16:00-16:15 Iron traps link with phosphorus availability and microbial stoichiometry in tundra soils
Maria Väisänen; Tamara Harms; Gerard Rocher-Ros; Carl-Magnus Mörh; Reiner Giesler
- 16:15-18:15 **Poster Session and Networking (All sessions)**, Skogis Kårhus

Friday 12 June 2026

08:00-13:00 **Thematic Workshops day**,
Workshops