

TUESDAY 17.15 to 18.30 Tampere Talo Park Foyer

poster wall number	title	session	author
1	eLTER Cyberinfrastructure Architecture - the technical backbone of the Research Infrastructure	Innovative methods for integrating and exploring heterogeneous environmental data	Martin Abbrent, Tomáš Rebok
2	Integrated monitoring in the tropical lowland forest of Mare Langue, Réunion Island	Integrated monitoring of long-term changes in vegetation	Claudine Ah-Peng
3	Integrating Carbon Sequestration and Biodiversity Impacts in Forest Ecosystems: Concepts, Case Studies, and Policy Strategies	Long-term ecosystem observations and manipulations to understand the effects of global change on forest ecosystems	Syed Ashraful Alam
4	Bridging Water–Carbon Flux Uncertainties in eCLM: Constraining Ecosystem Dynamics using Ensemble Smoother	Combining observational data with modelling approaches for ecosystems	Fernand B. Eloundou
5	Long-term environmental observation for understanding the Earth system in the Anthropocene	Long-term ecosystem observations and manipulations to understand the effects of global change on forest ecosystems	Kevin Bishop
6	The Interactive Effects of Experimental Warming and Nitrogen Deposition on Plant Community Structure, Biomass, and Soil Chemistry in an Alpine Grassland Ecosystem	Integrated monitoring of long-term changes in vegetation	Jana Borovská
7	How the Theia/OZCAR information system make data from the French OZCAR critical observatory network more FAIR ?	Innovative methods for integrating and exploring heterogeneous environmental data	Isabelle Braud
8	Constraining the water budget of a small agricultural headwater catchment using flux tower and soil data, satellite-based evapotranspiration, and semi-distributed hydrological modelling	Greenhouse gases and carbon, water, and nitrogen cycles	Pauline Buysse
9	Assessing the impact of meteorological drivers and within-footprint spatial heterogeneity on fluxes at a forest ecosystem site	Greenhouse gases and carbon, water, and nitrogen cycles	Anna Candotti
10	Global change experiments in mountain ecosystems: A systematic review	Integrated monitoring of long-term changes in vegetation	Harald Crepaz
11	Six years of high-resolution climatic data collected along an elevation gradient in the Italian Alps	Innovative methods for integrating and exploring heterogeneous environmental data	Harald Crepaz
12	Dynamics of carbon and nitrogen in soils and european beech (<i>Fagus Sylvatica</i> L.) saplings after the stand's canopy opening	Integrated monitoring of long-term changes in vegetation	Sonya Damyanova
13	Bridging ecological concepts, policy needs, data science and digital innovation with Essential Biodiversity Variables (EBVs)	Harnessing Data Science for Environmental Resilience: Bridging the Gap Between Big Data and Local Monitoring for Policy	W. Daniel Kissling
14	Functional Restoration of Desertified Ecosystems: Insights from Isreal Negev Desert Experience	Integrating long-term ecological research and adaptive management	Shayli Dor - Haim
15	Arctic fox conservation in northern Norway as an example of integrating management with long-term ecological research	Integrating long-term ecological research and adaptive management	Dorothee Ehrich
16	Investigating the Water Sources of Urban Trees	Nature based Solutions (incl. Carbon Farming): implementation, monitoring and modelling	Sophie Emberger
17	Isolation of beneficial soil microbes with stress tolerance traits and establishment of microbial consortia to improve legume productivity and adaptation to harsh environments	Integrating Knowledge for Mediterranean Ecosystem Restoration: Challenges and Collaborative Solutions from a Socio-Ecological Perspective	Mariangela Fotelli
18	Exploring litter decomposition dynamics in Mediterranean pine forests	Integrating long-term ecological research and adaptive management	Mariangela N. Fotelli
19	Weak evidence of improvement in ecological indicators of water quality following country-wide mitigation measures of intensively managed agriculture catchments	Integrating long-term ecological research and adaptive management	Jean Carlo Gonçalves Ortega
20	Biodiversity monitoring of island ecosystems (BioMonI)	Integrated monitoring of long-term changes in vegetation	Nathaly Guerrero-Ramírez
21	Simulating urban biogenic carbon sinks and their sensitivity to environmental conditions	Combining observational data with modelling approaches for ecosystems	Minttu Havu
22	Easy access to (Dutch) Wadden Data & information	The scientific and societal benefits of creating digital twins of an eLTER-site	Sander Holthuijsen

23	Variability and trends of atmospheric deposition, climate conditions, and radial tree growth in Romanian eLTER Sites	Long-term ecosystem observations and manipulations to understand the effects of global change on forest ecosystems	Cosmin Ilie Cuciurean
24	Integrated Remote Sensing for Mapping and Monitoring Srebarna Lake Ecosystem, Bulgaria.	Drone opportunities for monitoring the Critical Zone: variables, synergies, validation and protocols	Tsvetelina Isheva
25	Hemi-boreal forest ecosystem under the pressures of global environmental changes	Long-term ecosystem observations and manipulations to understand the effects of global change on forest ecosystems	Donatas Jonikavičius
26	How does microclimatic variability link to fine-scale spatial variation in soil respiration? A field campaign in urban green space	Greenhouse gases and carbon, water, and nitrogen cycles	Esko Karvinen
27	N ₂ O soil fluxes as impacted by chambers and measurement technique	Greenhouse gases and carbon, water, and nitrogen cycles	Janne Korhonen
28	UAV-Based Sampling of Volatile Organic Compounds (VOCs) for Atmospheric Monitoring: from Estonia to Cyprus	Drone opportunities for monitoring the Critical Zone: variables, synergies, validation and protocols	Dmitrii Krasnov
29	Can seasonal waterlogging alter carbon stability in boreal mineral soils?	Greenhouse gases and carbon, water, and nitrogen cycles	Reija Kronberg
30	Dynamics of carbon fluxes after natural disturbances in the Tatra Mts., Slovakia	Greenhouse gases and carbon, water, and nitrogen cycles	Martin Kubov
31	Expansion of nutrient-demanding plant species in high mountains as a consequence of Climate Change: recent evidence in the N-Apennines, Italy (SENTINEL PRIN-MUR project).	Integrated monitoring of long-term changes in vegetation	Silvano Lodetti
32	Development of grassland plant diversity and composition through eight years of experimentally managed access of large herbivores.	Integrated monitoring of long-term changes in vegetation	Bjarke Madsen
33	Temporal variability in zooplankton abundance and community composition in the eLTER site Promontory of Portofino: 20 years of sampling	Combining observational data with modelling approaches for ecosystems	Sarah Magozzi
34	Forest 4.0 – Research Infrastructure to Support the Operationalization of Digitalization in Maintenance and Management of Forest Ecosystems	Innovative methods for integrating and exploring heterogeneous environmental data	Gintautas Mozgeris
35	Causal Xwildfire: Causality-instilled fire spread modelling for extreme events	Harnessing Data Science for Environmental Resilience: Bridging the Gap Between Big Data and Local Monitoring for Policy	Carolina Natel
36	Bab forest phenological assessment by using GCC based on RGB bands of Phenocams imagery	Integrated monitoring of long-term changes in vegetation	Sabica Naz
37	A software package for exploratory time series analysis of environmental data.	Harnessing Data Science for Environmental Resilience: Bridging the Gap Between Big Data and Local Monitoring for Policy	Alessandro Oggioni
38	A socio-ecological study on a citizen-based initiative to transform urban lawns into meadows within the Helsinki metropolitan area	Transdisciplinary Research Approaches for Socio-Ecological Transformations	Beñat Olascoaga
39	Changes in biodiversity and species composition of meso- and eutrophic broadleaved forests in southern Poland over 30 years: a resurvey study based on semi-permanent plots	Integrated monitoring of long-term changes in vegetation	Anna Orczewska
40	The ITINERIS Catalogue: a case study for exploring heterogeneous environmental resources	Innovative methods for integrating and exploring heterogeneous environmental data	Quinzia Palazzo
41	Can we trust multispectral drone datasets for eLTER variables monitoring? Sensors sensitivity and applications.	Drone opportunities for monitoring the Critical Zone: variables, synergies, validation and protocols	Thibaut Peres
42	Ecosystem Services provided by streams to adjacent agricultural terrestrial ecosystems	Transdisciplinary Research Approaches for Socio-Ecological Transformations	Christophe Piscart
43	Mixed coniferous hemi-boreal forest understory vegetation long-term monitoring data analysis. Similarities versus peculiarities.	Integrated monitoring of long-term changes in vegetation	Ainis Pivoras
44	What a peaty contribution to global warming! An interdisciplinary study of atmospheric and hydrologic carbon fluxes in a temperate peatland in the Jura Mountains, eastern France	Greenhouse gases and carbon, water, and nitrogen cycles	Noémie Poteaux

45	The role of academic mentoring in empowering new-generation scientists for a sustainable future	Transdisciplinary Research Approaches for Socio-Ecological Transformations	Paulina Rajewicz
46	Considering air quality in the long-term ecological monitoring of the Spanish National Parks network	Integrated monitoring of long-term changes in vegetation	Raquel Ruiz
47	Investigating the temporal Alpha, Beta and Gamma plant diversity on 22 years monitoring approach at the LTER site "Montagna di Torricchio" (Central Apennines, Italy)	Integrated monitoring of long-term changes in vegetation	Leonardo Salvatori
48	The colours of CO2 fluxes: enhancing public understanding of the "breathing" of ecosystems	Transdisciplinary Research Approaches for Socio-Ecological Transformations	Liliana Scapucci
49	Towards an eLTER and ICOS scientific dialogue and cooperation - a contribution from the basis	Greenhouse gases and carbon, water, and nitrogen cycles	Marcus Schumacher
50	The Harz Mountain Observatory: a hydro-ecological observatory for long-term effects of large-scale forest change	Integrated monitoring of long-term changes in vegetation	Christian Siebert
51	Long-term hydrobiological monitoring importance for sustainable management of a shallow coastal macrophyte lake in the Baltic Ecoregion	Integrating long-term ecological research and adaptive management	Agnija Skuja
52	Education Earth in Mind: Integrating Environmental Themes in the Philosophy Classroom	Transdisciplinary Research Approaches for Socio-Ecological Transformations	Alexandra Tzvetkova
53	Zöbelboden Forwards: Towards an observatory for the resilience of European forests	Long-term ecosystem observations and manipulations to understand the effects of global change on forest ecosystems	Sarah Venier
54	Biodiversity Digital Twin Project: Grassland biodiversity dynamics	The scientific and societal benefits of creating digital twins of an eLTER-site	Sarah Venier
55	RiViVe: A Transdisciplinary Residential Laboratory for Reimagining the Diversity of Life	Transdisciplinary Research Approaches for Socio-Ecological Transformations	Nicola Vuolo
56	Developing the First Airborne Tree Carbon Stock Inventory for Cyprus: Using AI and High-Resolution Remote Sensing to Estimate Carbon Stocks	Long-term ecosystem observations and manipulations to understand the effects of global change on forest ecosystems	Anna Zenonos
57	Assessing thermal comfort during summer: Open land vs. stand measurements	Nature based Solutions (incl. Carbon Farming): implementation, monitoring and modelling	Anita Zolles

WEDNESDAY 16.00 to 17.30 Tampere Talo Park Foyer

poster wall number	title	session	author
1	A Centralized Web Platform for eLTER Romania: Connecting Observations, Research, and DecisionMaking	Advances in instrumentation to support a whole-system approach to socio-ecosystem research	Mihai Adamescu
2	Revealing the fate of industrial-era mercury in peatlands with micrometeorology, isotopes, paleoecology, genomics, and an ice-age	Critical Interfaces in the Critical Zone, from instrumental to modeling approaches	Kevin Bishop
3	Ecosystem routing of rock- and dust-derived nutrients	Catchments as integrators of water quality, ecosystem and critical zone processes	Julien Bouchez
4	Assessing biogeochemical anomalies in 2024 at an eLTER Site in the Northern Adriatic Sea: the Senigallia-Susak transect and TeleSenigallia pylon	Understanding dynamics of aquatic systems along the freshwater marine continuum	Alessandra Campanelli
5	Seasonal dynamics of C and N along the soil-mycorrhiza-plant continuum in a Pinus sylvestris boreal forest	Integrated observations in the atmosphere-biosphere continuum	Ettore D'Andrea
6	Seasonal variations in diversity and abundance of macroalgal assemblages over a 13-year period in the eLTER site "Mar Piccolo of Taranto"	Understanding dynamics of aquatic systems along the freshwater marine continuum	Giuseppe Denti
7	Assessing bird biodiversity using LifePlan audio recording	Integrating novel technologies in long-term ecological monitoring	Ricardo Díaz-Delgado
8	Evaluation of the petrogenic source of nitrogen in an alpine watershed	Critical Interfaces in the Critical Zone, from instrumental to modeling approaches	Jil d'Erceville
9	Contribution of emerging aquatic insects to lateral transfers of Carbon and Nutrients: significance for the integrated landscape budget along a gradient of agricultural pressure	Catchments as integrators of water quality, ecosystem and critical zone processes	Ophelie Fovet
10	Study of the relationship between human and aquatic ecosystems in a 'one health' perspective, inputs of a spatial approach in the 'Mental'eau' projet	Transdisciplinary Research Approaches for Socio-Ecological Transformations	Cécile Fries Paiola
11	From canopy to bedrock: a 3D critical zone dataset to advance ecohydrological research in the Weierbach Experimental Catchment, Luxembourg	Critical Interfaces in the Critical Zone, from instrumental to modeling approaches	Laurent Gourdol
12	Introducing LTER-DK and SITES Denmark - Infrastructure for long-term ecosystem research in Denmark	Integrated monitoring of long-term changes in vegetation	Sascha Hellmann Hansen
13	Oracle-Orgeval, Long-term Research observatory of the critical zone	Critical Interfaces in the Critical Zone, from instrumental to modeling approaches	Hocine Henine
14	Flux map on tall towers: a study over heterogeneous landscapes	Catchments as integrators of water quality, ecosystem and critical zone processes	Pedro Henrique Herig Coimbra
15	Hydrological control on groundwater electrical conductivity, pH, dissolved oxygen and oxidation reduction potential in a forested Critical Zone observatory: the Weierbach Experimental Catchment, Luxembourg.	Catchments as integrators of water quality, ecosystem and critical zone processes	Christophe Hissler
16	Integrated Remote Sensing for Mapping and Monitoring Srebarna Lake Ecosystem, Bulgaria.	Recent advances and technical solutions for wetland restoration	Tsvetelina Isheva
17	Single tree health monitoring using uav-based lidar data	Drone opportunities for monitoring the Critical Zone: variables, synergies, validation and protocols	Donatas Jonikavičius
18	What can passive electrical signals tell us about tree transpiration? One year of self-potential observation at three test sites in a Mediterranean Climate	Critical Interfaces in the Critical Zone, from instrumental to modeling approaches	Damien Jougnot
19	GTK's HYGLO WOLL stations - A Living Lab for Groundwater Research	Unravelling the mysterious role of groundwater in Ecosystem Dynamics	Tiina Kaipainen
20	Can high-resolution monitoring provide a better understanding of the hyporheic zone in Groundwater Dependent Ecosystems?	Unravelling the mysterious role of groundwater in Ecosystem Dynamics	Konstantina Katsanou
21	Explainable machine learning for modeling of net ecosystem exchange in boreal forests	Greenhouse gases and carbon, water, and nitrogen cycles	Topi Laanti

22	REWET (REstoration of WETlands to minimise emissions and maximise carbon uptake – a strategy for long term climate mitigation) – Water level and quality in a minerotrophic open mire Ylpässuo in Kiuruvesi, Finland	Recent advances and technical solutions for wetland restoration	Tiina Leiviskä
23	Identification and Classification of Non-Perennial Rivers Using Integrated Remote Sensing and Hydrological Modeling Approaches	Understanding dynamics of aquatic systems along the freshwater marine continuum	Maria A. Lilli
24	Towards Globally Harmonized Environmental Data: A Proof of Concept Using Ecological Drought and the GERI Framework	Innovative methods for integrating and exploring heterogeneous environmental data	Henry W. Loescher
25	A Use Case Approach to Integrate Ecological Research Networks and Infrastructures to Advance Macrosystem Science	Integrated observations in the atmosphere-biosphere continuum	Henry W. Loescher
26	Development and testing of a hyperspectral camera network to monitor plant canopies and sediment transport dynamics	Advances in instrumentation to support a whole-system approach to socio-ecosystem research	Laurent Longuevergne
27	Soil microbiome diversity in selected broadleaf forests of Belasitsa Mountain: A High-Throughput Sequencing approach	Integrating novel technologies in long-term ecological monitoring	Lyudmila Lozanova
28	Environmental impacts of peat extraction site rewetting – Establishing of new intensive monitoring site	Recent advances and technical solutions for wetland restoration	Xiao Lu
29	The ecological importance of temporary ponds, especially vernal pools for waterfowl breeding success	Understanding dynamics of aquatic systems along the freshwater marine continuum	Basile Marteau
30	Climate changes modulate deep seepage under forests – a long-term observation at a north-eastern German lysimeter site	Long-term ecosystem observations and manipulations to understand the effects of global change on forest ecosystems	Marco Natkhin
31	Intercropping in Europe: a meta-analysis	Harnessing Data Science for Environmental Resilience: Bridging the Gap Between Big Data and Local Monitoring for Policy	Madhuri Paul
32	A low-cost dissolved organic matter probe for aquatic ecosystems	Advances in instrumentation to support a whole-system approach to socio-ecosystem research	Marie-Noëlle Pons
33	Intra-annual tree growth patterns in eLTER sites in Romania based on dendrometer data	Long-term ecosystem observations and manipulations to understand the effects of global change on forest ecosystems	Andrei Popa
34	neptoon: An extensible software tool for CRNS data processing	Critical Interfaces in the Critical Zone, from instrumental to modeling approaches	Daniel Power
35	Estimating tree biomass using UAV Lidar in Braila Islands LTSEr site	Drone opportunities for monitoring the Critical Zone: variables, synergies, validation and protocols	Tudor Racoviceanu
36	Behind the Spatio-Temporal Variation in Spectral Chlorophyll Fluorescence of Boreal Species	Long-term ecosystem observations and manipulations to understand the effects of global change on forest ecosystems	Paulina Rajewicz
37	Continuous cover forestry in drained peatland forests: Effects of harvesting on CO2 balance at two nutrient-rich sites	Greenhouse gases and carbon, water, and nitrogen cycles	Helena Rautakoski
38	A Decade of Monitoring: Insights into Israel's Biodiversity and Conservation Challenges	Integrating long-term ecological research and adaptive management	Ittai Renan
39	Precipitation shifting plant community assembly drivers multitrophic interactions in a semiarid ecosystem	Integrating long-term ecological research and adaptive management	Liu Rentao
40	Integrating Data into Hydrogeophysical Models to Unveil Fluxes and River Interactions: Insights from the Orgeval Critical Zone Observatory	Unravelling the mysterious role of groundwater in Ecosystem Dynamics	Agnès Rivière
41	Sources and sinks of methane and carbon-dioxide in oligotrophic lakes: a case study from Lake Maggiore, Italy	Understanding dynamics of aquatic systems along the freshwater marine continuum	Michela Rogora
42	Restoration of former peat extraction areas is a key measure to enhance biodiversity and mitigate climate change.	Nature based Solutions (incl. Carbon Farming): implementation, monitoring and modelling	Anna-Kaisa Ronkanen
43	Development of ecosystem processes, functions and biodiversity in new forests on post-agricultural land	Integrating novel technologies in long-term ecological monitoring	Yamina Micaela Rosas

44	Assessing soil moisture using cosmic-ray neutrons in three boreal forest stands in Northern Europe	Critical Interfaces in the Critical Zone, from instrumental to modeling approaches	Kira Ryhti-Laine
45	30 years of measurements at SMEAR II station – practical work at a field station and how it has changed during decades	Integrated observations in the atmosphere-biosphere continuum	Pauliina Schiestl-Aalto
46	Multi-scale analysis of Loktak wetlandscape using Earth Observation datasets	Recent advances and technical solutions for wetland restoration	Rajiv Sinha
47	Interacting with environmental data through web applications: case studies from the Biodiversity Digital Twin	Innovative methods for integrating and exploring heterogeneous environmental data	Allan T. Souza
48	Nitrogen deposition effects in Austrian forests	Long-term ecosystem observations and manipulations to understand the effects of global change on forest ecosystems	Matthias Steinparzer
49	Cluster analysis on Eddy covariance flux footprint data from SMEAR Estonia	Integrated observations in the atmosphere-biosphere continuum	Anuj Thapa Magar
50	Integrating Spectral Indices and Climate Data to Monitor Ecological Changes in Protected Areas	Long-term ecosystem observations and manipulations to understand the effects of global change on forest ecosystems	Elena Todorova
51	Are we fertilizing crops to the point of reduced resilience to environmental stressors?	Long-term ecosystem observations and manipulations to understand the effects of global change on forest ecosystems	Flavian Tschurr
52	An open system for CO2 and CH4 flux tracking at ICTS-Doñana	Advances in instrumentation to support a whole-system approach to socio-ecosystem research	Abel Valero
53	Changes of Biological Quality Elements during rehabilitation activities in LTER site Srebarna Lake, (LTER EU BG 007 "SREBARN")	Recent advances and technical solutions for wetland restoration	Yanka Vidinova
54	Integrating Phenological Data from observational networks, Citizen Science, and a Land Surface Model in Central European Forests	Long-term ecosystem observations and manipulations to understand the effects of global change on forest ecosystems	Midori Yajima
55	Interactive Effect of Nitrogen Deposition and Drought on Forest Carbon Sequestration	Long-term ecosystem observations and manipulations to understand the effects of global change on forest ecosystems	Yu Zhou
56	Effects of soil parameters on radial stem growth of four spruce stands in Austria	Long-term ecosystem observations and manipulations to understand the effects of global change on forest ecosystems	Anita Zolles