ME&B CONFERENCE
26 - 29 AUGUST 2024
HELSINKI, FINLAND
ME&B
MICROCLIMATE ECOLOGY & BIOGEOGRAPHY

Key

Foyer Sirén (4th floor)
Small hall, room F4050 (4th floor)
Tekla Hultin, room F3003 (3rd floor)
Agora, inner courtyard (1st floor)
Off-campus

Date	Start	End				
Mon 26.8.	9:00	16:00	Conference excursion to Nuuksio National Park			
	18:30	19:30	Welcome event at City Hall			
Tue 27.8.	8:00	8:30	Registration + uploading talk presentations			
	8:30	9:00	Welcome speech by organisers			
	9:00	10:00	Keynote talk by Timo Vesala: Carbon-water cycles with the micrometeorologist's eye			
	10:00	10:30	Coffee break + registration		Poster hanging	
	10:30	11:30	Keynote talk by Lauren Buckley: Interfacing microclimate and organismal traits to forecast insect ecological and evolutionary responses to climate change			
	11:30	12:30	Lunch break			
	12:30	12:45	Ecosystem processes: Tropical climates	Jinlin Jia: Forest microclimatic patterns and drivers along an elevational gradient in Mount Kenya	Plants: Tundra	Peter C. le Roux: Fine-scale variation in wind conditions affects plant communities: examples from the sub-Antarctic
	12:45	13:00		Kasper Coppieters: Lianas cool down tropical forest understories but increase light availability		Elise Gallois: The Tundra Summer: Does microclimate set the clock?
	13:00	13:15		Ma Zhimin: Exploring Microclimate Variability and Its Ecological Impacts in the Amazon Rainforest		Patrick Saccone: There is "snow" and "snow"! Does the duration of spring snow cover affect the plant's performances the following growing season?
	13:15	13:30		Emmanuel Akindele: Species Distribution Modeling of Freshwater Invertebrates in the Guineo-Congolian Region: A Predictive Conservation Approach		Kryštof Chytrý: What kind of temperature variables to use in species distribution models of alpine plants?
	13:30	13:45		Sara Alibakhshi: The Role of Deforestation in Tropical Temperature Dynamics		Jonathan von Oppen: Closing gaps in the alpine soil temperature data record to map microhabitats for mountain plant diversity
	13:45	14:00		Vivienne Groner: A Virtual Ecosystem to understand the resilience of tropical rainforests		Maximiliane M. Herberich: Effects of warming and microclimatic origin on seed regeneration of alpine plants
	14:00	14:30	Coffee break + registration			Poster hanging
	14:30	14:45	Plants: Grasslands and shrublands	Sonya Geange: Macro- vs micro-climate? Scaling insights from dwarf shrub heathlands in the field to land-surface models	Methods: Modelling	Ilya Maclean: Modelling microclimate across landscapes for application in ecology and biogeography
	14:45	15:00		Anna Orczewska: Do small woodlands in agricultural landscapes still act as microclimatic refugia for forest herb layer species?		Emma Van de Walle: Modelling and measuring forest microclimate at high spatiotemporal resolution
	15:00	15:15		Marie Finocchiaro: Refining species vulnerability assessment in the face of climate change: integrating microclimatic factors in a population-centric approach to forecast species persistence		Alexander Dyer: Thermal constraints on endotherm activity: mechanistic predictions of travel speed and aerobic scope
	15:15	15:30		Xavier Picó: Genetic kinship overrides microenvironmental variation in shaping phenotypic variation: lessons from the long-term monitoring of natural Arabidopsis thaliana populations		Johanna Lehtinen: Variability and drivers of microclimates in different synoptic conditions in a high latitude ecosystem
	15:30	15:45		Thomas Vanneste: Increasing functional and phylogenetic richness of mountaintop flora, despite stable taxonomic richness		Josef Brůna: Predicting future forest microclimate range with LANDIS-II simulation model
	15:45	16:00		TBA		Benjamin Deneu: Improving Microclimate Spatio-Temporal Modeling with Species-Informed Latent Climate variables
	16:00	18:00	Poster session + refreshments			
Wed 28.8.	8:00	8:30	Registration + uploading talk presentations			
	8:30	9:00	Introduction of a new SoilTemp subdivision: Arctic, Antarctic and alpine ecosystems			
	9:00	10:00	Keynote talk by Eduardo Maeda: New insights in the monitoring of microclimate in tropical regions			
	10:00	10:30	Coffee break + registration			
	10:30	11:30	Keynote talk by Michael Kearney: Microclimates for heat, water and activity budgets of organisms: problems and solutions			
	11:30	12:30	Lunch break			
	12:30	12:45	Applications: Conservation	Aino-Maija Määttänen: The role of geodiversity in ecological connectivity	Methods: Remote sensing	Katja Kowalski: Using Landsat to map sub-canopy temperature time series in a mountain forest ecosystem
	12:45	13:00		Patricio Pliscoff: Identifying microrefugia to complement a network of protection sites in a high conservation value area in the Mediterranean climate zone of central Chile.		Geerte Fälthammar de Jong: Time-lapse cameras can bridge the gap between remote sensing and human observation in the Arctic: an overview of benefits and downsides of a novel method.
	13:00	13:15		Leclerc Laureline: Microclimatic heterogeneity and mosaic of microrefugia : insights from a bioclimatic observatory in southeastern France.		Sini-Selina Salko: Hyperspectral characterization of vegetation in hemi-boreal, boreal and arctic peatlands using geographically extensive field dataset
	13:15	13:30		Cândida Gomes Vale: Combining Space and Time: Towards Microclimate Characterization for Cultural Heritage Conservation		Andreas Hanzl: Linking forest structural and microclimate variability using terrestrial laser scanning
	13:30	14:00	Coffee break + registration			
	14:00	14:15	Plants: Experiments	Charlotte Møller: A cross-continental common garden: A comparative analysis of intra-specific responses to microclimatic variation in Milium effusum	Ecosystem processes: Cold climates	Anna-Maria Virkkala: Changes in soil microclimate and its impacts on ecosystem carbon balance across Arctic-boreal flux sites: insights from a data synthesis
	14:15	14:30		Jorge Curiel Yuste: Growth patterns of a water-saving and a water-wasting tree species: Conclusions drawn from an improperly designed rain exclusion experiment		Caroline Greiser: Warmer waters: Riparian buffers protect boreal streams from heating up on clearcuts
	14:30	14:45		Mathieu Leclerc: The microclimate in thermogenic flowers: opportunity of behavioral thermoregulation for pollinators?		Eugenie Euskirchen: Persistent net release of carbon dioxide and methane from an Alaskan lowland boreal peatland complex
	14:45	15:00		Pieter De Frenne: Long-term forest understorey vegetation responses to combined microclimate warming and nitrogen deposition		Iris Starck: Forest age as an important driver of microclimate buffering in boreal forests
	15:00	15:15		Liesbeth van den Brink: Asymmetrical response in biomass production but not in diversity of water-limited plant communities to changes in soil humidity		Francesco Zignol: Controls on spatial and temporal variations in soil moisture in a boreal forest landscape
	15:15	15:30		Kerstin Pierick: The impact of forest structural complexity on microclimatic heterogeneity		TBA
	15:30	16:00	Coffee break + registration			Poster packing
	16:00	16:15	Methods: In situ	Jan Wild: Double shielding of TMS loggers. Does it matter?	Plants: Forests	Susanna Koivusaari: Microclimate as a mediator of forest change impacts on biodiversity: the case of an endangered old-growth forest indicator species Calypso bulbosa
	16:15	16:30		Rémy Beugnon: The SoilTemp Database - A global repository and open access point for microclimate data		Martin Macek: One Variable to Rule Them All? Unraveling the Microclimatic Drivers of the Forest Understory Vegetation
	16:30	16:45		Jonas J. Lembrechts: Microclimate change: the hidden driver of species redistributions		Helena Hespanhol: Microclimate implications for bryophyte species distribution
	19:00	21:00	Conference dinner at Mestaritalli			
Thu 29.8.	8:45	9:15	Registration + uploading talk presentations			
	9:15	10:15	Keynote talk by Kristoffer Hylander: Microclimate applications for biodiversity conservation in boreal forests and coffee agroforestry systems			
	10:15	10:45	Coffee break + registration			
	10:45	11:00	Applications: Urban microclimates	Karen De Pauw: Urban microclimates at understorey level: investigating plant responses in the city	Animals: Forests	Orsi Decker: Temperature buffering capacity of deadwood in temperate forests
	11:00	11:15		Stijn Van de Vondel: Mapping microclimate variability in gardens: implications for urban heat resilience		San Yin Leemans: Significant shifts towards warm-adapted carabid species in Belgian forests over the past 25 years.
	11:15	11:30		TBA		Thomas Ranius: The microclimate is important for *Osmoderma eremita* and other beetles inhabiting large old trees and dead wood
	11:30	12:30	Lunch break			
	12:30	12:45	Animals: Mountains and grasslands	Joséphine Couet: Altitudinal distribution and shifts of European mountain birds differ between slopes	Ecosystem processes: Temperate climates	Stef Haesen: Forest disturbances threaten decoupling of sub-canopy microclimates in European temperate forests
	12:45	13:00		Joseph Williamson: Too Hot to Handle: Can combining microclimate and thermal biology help predict biodiversity responses to global change?		Bence Kovács: Small oases below the canopy: the cooling effects of water-filled tree holes on the local microclimate in oak-dominated stands
	13:00	13:15		Andrea Simoncini: Joint effects of micro- and macro-climate on biotic colonization following glacier retreat		Nicolò Anselmetto: Natural forest expansion generates microclimate gradients in time and space in a mountain forest landscape of the Italian Alps
	13:15	13:30		Jérémy Monsimet: Exploring ant mound dynamics in the tundra ecotone: insights from UAV imagery and deep learning		Enrico Tomelleri: Forest structure effects on microclimate in beech forests: results from a multi-year monitoring transect across the Italian peninsula
	13:30	13:45		Lisa Geres: To the top or into the dark? Closed forests can partly compensate for upslope shifts in species tracking climate change in mountain forests		Kerstin Pierick (Martin Ehbrecht): Impacts of forest management on the spatiotemporal variability of forest microclimates
	13:45	14:00		Jonathan Bennie: The importance of microclimate at cool range margins: modelling and observing metapopulation dynamics over 36 years at the expanding edge of a thermally constrained butterfly		Martin Kopecký: Changes in forest microclimate buffering after canopy disturbance
	14:00	14:15	Closing speech by organisers + Awards for best poster and talk presentations			
	14:15	14:45	Coffee break and take-away coffee for workshop and meeting)			
	14:15	18:00	Workshop by keynote speaker Michael Kearney: NicheMapR		Meeting: SoilTemp subdivision: Arctic, Antarctic and alpine ecosystems	