

Time**Tuesday 2nd**

09:00 – 09:30

OPENING (*Amphi 5.03*)

09:30 – 10:30

Keynote Session – Soil Ecology (*Amphi 5.03*) : Experimental Interaction Ecology group
Nico Eisenhauer, Simone Cesarz, Pia Loeffke

10:30 – 11:00

BREAK**Soil in Forest Ecology** (*Amphi 5.03*)**Methods & Microclimate** (*SC1.01*)

Tobias Käcks

Tree species richness and shrub presence shape near-surface microclimates across spatio-temporal scales

Lucas Chojnacki

The use of drone based remote sensing for modelling microclimate buffering and biodiversity of hedgerows

11:00 – 12:00

Yuanyuan Huang

Plant diversity stabilizes near-surface hydroclimate by decoupling soil water and atmospheric humidity

Ilya Maclean

SurveyTag: A New Air Temperature Logger for Sun Exposed Microhabitats

Jokin Belmonte

Soil conditions alter the effect of microclimate on the proportion of forest plant specialists

Rafael Schouten

Microclimate.jl: a new package and software ecosystem for microclimate modelling

Daniel Harnisch

Scale Matters: How Ground Cover Type Shapes Near-Ground Forest Microclimate

Mariana García Criado

Microclimate and cryptogam diversity dynamics in the Arctic and Antarctic poles

12:00 – 13:30

LUNCH BREAK

13:30 – 14:30

Keynote Session - Forest & Tropical Ecology (*Amphi 5.03*): Belén Fadrique

14:30 – 14:40

BREAK

14:40 – 15:55

Forest in Tropical Ecology (*Amphi 5.03*)

Animal & Insect Ecology (*SC1.01*)

Fabien Spicher	From the ground to the roof: 3D microclimate modelling in a tropical forest
Laura Chevaux	Managing forest density alters the microclimatic buffering capacity
Pieter de Frenne	Tree-based solutions for climate adaptation
Nina Ferrari	Canopy structure influences vertical microclimate in a temperate montane forest
Francesco di Pietro	From coppice to old forests: management-driven microclimatic filtering shapes plant communities in mediterranean oak forests

Daniel Agea-Plaza	Altitudinal response of arthropods in biogenic refuges in Mediterranean mountains
Jelena Bujan	Microclimatic variation in space and time shapes ant thermal tolerance
Marko Bračić	Drone thermal mapping reveals fine-scale microclimatic heterogeneity in ant habitats
Gwenaëlle Deconninck	Behavioural thermoregulation strategies in insects
Orsi Decker	Forest microclimate similarity shapes inhabiting arthropod communities

15:55 – 16:15

BREAK

16:15 – 17:30

Forest in Tropical Ecology (Amphi 5.03)

- Amelia Fitch: Forests decouple microclimates from regional climate warming
- Tomma Feltgen: Seasonal dynamics of forest microclimate buffering across a species richness gradient
- Vivienne Groner: Life under the canopy: Linking microclimate and forest ecology in the heart of Borneo
- Petri Manninen: Seasonal variation in microclimate–macroclimate offsets and their drivers in boreal forests

Animal & Insect Ecology (SC1.01)

- Gabrielle Ednie: Ideal temperature resolutions for insect microclimate studies
- Henry Fell: Vector development and plague seasonality in Madagascar: toward burrow-scale early-warning systems
- Marianne Stoessel: When it becomes too hot to eat: climate warming limits reindeer grazing in the mountain tundra
- Evan Tanner: In the heat of the night: Temperature and vegetation structure disparity in habitat suitability for scaled quail
- Mika Lemoine: Soil life at the interface between microhabitat and microclimate

Time**Wednesday 3rd**

09:00 – 10:00

Keynote Session – Marine Ecology (Amphi 5.03) : Fernando Lima's group
 Fernando Lima & Rita da Silva

10:00 – 10:30

BREAK**Marine & Freshwater Ecology** (*Amphi 5.03*)**Forest Ecology** (*SC1.01*)

Johanneke Siljee

Warming deltas: exploration of accelerated microclimatic change in global river deltas

Hannah Sachs

How wildfire reshapes understory temperature in Oregon's temperate forests: insights from a paired pre- versus post-fire study

Joseph McGovern

Validation of a Microclimate Model for Predicting short-term, Near-surface Temperatures in Semi-aquatic Systems Across Central North America

Capucine Moncassin

Changes in forest canopy effects on understory plant and litter decomposition along a rainfall continentality gradient in two bedrock conditions

10:30 – 12:00

Yuna Le Gouëf

50 years of change: a multi-scale approach to the relationship between river temperature and air temperature

Caspar Jobsky

Quantifying the impact of disturbances on forest microclimates using a nationwide logger network

Jerome Ogee

Attenuation of summer climate extremes within riparian forest corridors: from observations and physics-based modelling to practical applications

Bence Kovács

Cooler gaps, stronger starts: How forest matrix and initial regeneration shape within-gap microclimate

Victoria Delannoy

Multiple facets of marine heatwaves along the coasts of the Mediterranean Sea.

Soroor Rahmanian

Tree diversity and mycorrhizal associations regulate forest canopy temperature: insights from drone observations

João Nunes

From in situ loggers to satellite grids: Can large-scale climate products capture intertidal microclimates?

Lydia Soifer

Microclimate ecology and biogeography: A chess board or a Rubik's cube

12:00 – 13:30

LUNCH BREAK

13:30 – 14:30	Keynote Session – Urban Ecology (<i>Amphi 5.03</i>): Karen de Pauw’s lab Karen de Pauw, Suzanne Bulckaert, Fien Vander Meulen			
14:30 – 15:00	BREAK			
14:40 – 16:30	Urban Ecology (<i>Amphi 5.03</i>)		Forest Ecology (<i>SC1.01</i>)	
	Cameron Grodhead	The impacts of rewilding on the microclimate space of landscapes	Birgitta Putzenlechner	Post-disturbance forest management effects on thermal extremes
	Jan Lenc	Urban heat islands act as thermal stepping-stones for tropical ectotherm invasions into otherwise unsuitable regions	Ewout Duhamel	Canopy opening provides favorable conditions for generalist strategies in temperate understory plant communities
	Stijn Van de Vondel	Data you can’t collect alone: lessons from a large-scale IoT microclimate network	Alexia Favaro	Drone-based LiDAR reveals dynamic links between forest structure and microclimate during phenological transitions
	Anita Zolles	Microclimatic Buffering in Small Forest Patches within Agricultural Landscapes	Nathan Corroyez	Integrating LiDAR-Derived Vegetation Structural Attributes into the MUSICA Model to Map and Explain Fine-Scale Forest Microclimate Variability
	Cleo Bertelsmeier	Microclimates as thermal refugia: behavioral plasticity in wood ants under climate change	Kerstin Pierick	Multi-taxon forest biodiversity increased with reduced canopy cover and warmer microclimate
	Liesbeth van den Brink	Dryland plant communities change after seven years of induced mega-drought	Andreas Hanzl	Spatially explicit Modelling of Forest Floor Temperature Offsets from Terrestrial Laser Scanning
16:30 – 18:00	POSTER SESSION			

Time**Thursday 4th**

09:00 – 09:30

OPENING (*Amphi 5.03*)

09:30 – 10:30

Keynote Session – Forest Ecology & Methodes (*Amphi 5.03*) : Yansun Su's lab
Yansun Su, Xiaoyong Wu, Haoen Xu

10:30 – 11:00

BREAK**Forest Ecology & Methods** (*Amphi 5.03*)**Soil Ecology** (*SC1.01*)

Caroline Greiser

Microclimate change - Mechanisms leading to different trends of warming

Emily Cooledge

Extreme heat-stress events rapidly alter soil microbial carbon use efficiency and nutrient cycling

Jan Wild

Combining microclimate loggers and standard weather stations for national-scale high-resolution microclimate modelling

Benjamin Deneu

Integrating plant community indicators with climate data for high-resolution daily soil moisture prediction

11:00 – 12:00

Emma Van de Walle

ForEdgeClim: a 3D process-based microclimate model incorporating vertical and lateral energy fluxes to simulate forest edge-to-core transitions

Micaela Mafla-Endara

Linking microclimate and soil properties to microbial community patterns along a latitudinal gradient in Swedish boreal forests

Andrea Maamary

Scale Matters: How Ground Cover Type Shapes Near-Ground Forest Microclimate

Andreas Dietzel

Canopy structure drives fine-scale soil moisture dynamics in Swiss forests

Sylvain Schmitt

Using Fourier's transform to model forest microclimates by playing the partition of temperature harmonics: an analysis of fine-scale spatial and temporal variation in a tropical forest in French Guiana

Jacob Cook

Understanding microclimate impacts on the biotic drivers of the soil carbon cycle within the Virtual Ecosystem

Germán Cabrera Carrillo

Analyzing continuous measurements of soil respiration in a Mediterranean reforested pine forest: evaluating differences between bare soil and soil covered with pruning residues

12:00 – 13:30

LUNCH BREAK

13:30 – 14:30	Keynote Session - Extreme Environments (<i>Amphi 5.03</i>): Angélica Casanova Katny's lab			
14:30 – 14:40	BREAK			
	Extreme Environments (<i>Amphi 5.03</i>)		Methods & Microclimate (<i>SC1.01</i>)	
	Philips Akinwole	Urban microclimates decouple cyanogenesis variation from regional climate in white clover (<i>Trifolium repens</i> L.)	Marie Finocchiaro	Hindcast and forecast climate–vegetation dynamics: the challenge of validating mechanistic microclimate models
14:40 – 15:55	Ditte Marie Christiansen	Micro-topography mirrors large-scale elevational plant trait variation	Stef Haesen	Model emulation as the next step forward within microclimate modeling
	Christophe Metsu	Microclimate in open ecosystems: a comparison between thermal, statistical, and mechanistic approaches using UAVs	Martin Kopecký	Vapor Pressure Deficit: a neglected, but important, microclimate variable
	Kelly Theunissen	How does it feel to be a bryophyte on alpine summits?	Jonas Lembrechts	How to slow down accelerating microclimate change?
15:55 – 16:15	BREAK			
	Extreme Environments (<i>Amphi 5.03</i>)		Methods & Microclimate (<i>SC1.01</i>)	
	Pekka Nittyinen	The disappearing cold: uncovering local-scale climate amplification	Vilna Tyystjärvi	Horizon Scan of microclimate ecology and biogeography – novel topics, challenges and opportunities
16:15 – 17:30	Sharon Robinson	Mapping, Modelling and Predicting Future Antarctic Microclimates	Koenraad Van Meerbeek	Same Data, Many Modellers: Launching a Global Microclimate Modelling Challenge
	Adam Mahood	Diurnal temperature range sorts plant communities and affects diversity at fine scales	Beatriz P. Cazorla	Validating near-ground snow detection with multi-sensor satellite observations in a Mediterranean mountain (Sierra Nevada, Spain)
	Pablo Guerrero	Radiative and thermal microclimates of rare and endangered cacti in the hyper-arid Atacama Desert		

Time

Friday 5th

09:00 - 10:00

MEB Network update (*Amphi 5.03*)

10:00 - 10:30

BREAK

10:30 - 11:30

CLOSING WORDS (*Amphi 5.03*)

11:30 - 13:00

LUNCH BREAK

13:00 - 16:00

Mechanistic modeling of microclimate

**theRmalUAV: Processing thermal UAV data
in R**

**Untangling tropical microclimate ecology
from colonial heritage**