



SwissForestLab ScienceDay

16th January 2026

University of Berne

Event Program

08:00 - 09:00

Registration

Session 1 Chair: Bernhard, Fabian

09:00 - 09:05

1.0

Gessler, Arthur

Welcome by the Chairman of SwissForestLab

09:05 - 09:10

1.1

Bernhard, Fabian

Introduction to Geocomputation and Earth Observation (GECO) lab (Inst of Geography, University of Bern)

09:10 - 09:40

1.2

Luyssaert, Sebastiaan

Keynote: Continental scale forest management: think global, act local

09:40 - 09:55

1.3

Paul-Limoges, Eugenie

Managing Swiss forests towards net zero in a changing climate

09:55 - 10:10

1.4

Etzold, Sophia

Decreasing water availability reduces productivity in Swiss forests along an altitudinal gradient

10:10 - 10:25

1.5

Zhou, Yu

Atmospheric Deposition Outweighs Dryness in Regulating European Ecosystem Productivity

10:30 - 11:00

Coffee break

11:00 - 11:15

1.6

El-Mejjaouy, Yousra

Detecting physiological drought impacts on ecosystem physiology from multispectral, thermal, and meteorological remote sensing data

11:15 - 11:30

1.7

Rog, Ido

Increased belowground tree carbon allocation in a mature mixed forest in a dry vs. a wet year

11:30 - 11:45

1.8

Guidi, Claudia

Drivers of soil organic carbon from temperate to alpine forests: a model-based analysis of the Swiss forest soil inventory

11:45 - 12:00

1.9

de Jong, Philipp

Interactions between earthworm species enhance litter-derived carbon stabilization in the mineral soil

12:00 - 13:45

Lunch Break

Session 2 Chair: Lachat, Thibault

13:45 - 13:50	2.0	Lachat, Thibault	Introduction to Forest Ecology lab (Bern University of Applied Sciences BFH)
13:50 - 14:05	2.1	Buchmann, Nina	Soil, below-canopy and ecosystem CO2 and CH4 fluxes and their drivers in a subalpine spruce forest
14:05 - 14:20	2.2	Ehming, Merten	Four Decades of Forest Development in the Context of Nitrogen Eutrophication and Climate Change
14:20 - 14:35	2.3	Chen, Liangzhi	Multiyear droughts and ecosystem responses – A global look
14:35 - 15:00	Coffee break		
15:00 - 15:15	2.4	Gessler, Arthur	What if we could reconstruct tree metabolism and explore how environmental factors influence it through tree rings?
15:15 – 15:30	2.5	Lukovic, Mirko	Point dendrometer and climate data processing with temporal convolution networks

Poster Pitches

15:30 - 15:35	2.6	Wright-Osment, Nicholas	Measuring Carbonyl Sulfide Fluxes for Enhanced Insight into Carbon Dynamics in a Mixed Forest
15:35 - 15:40	2.7	Bernhard, Fabian	Model-data fusion of daily ecosystem fluxes and forest inventories with a dynamic vegetation model
15:40 - 15:45	2.8	Haoyu, Diao	Contrasting photosynthetic, stomatal, and mesophyll mechanisms drive common reductions in leaf water-use efficiency under blue light
15:45 - 15:50	2.9	Schneider, Pascal	Early Warning Signals for Tree Mortality: A Review of Indicators, Limitations, and Emerging Opportunities
15:50 - 17:00	Poster Session & Apéro		