

TreeNet Annual Meeting 2024

WSL, 12 November 2024

09:15 Welcome coffee

09:40 Introduction & Overview

Roman Zweifel
& Micah Wilhelm (WSL)

Who and What is TreeNet today?

Sites and Partner
The TreeNet standard
TreeNet data processing platform
Recent Output
Nowcasting Products

10:30 National drought warning

Yannick Barton, BAFU

The new national drought warning and information platform

11:00 Science with TreeNet (I)

Arthur Gessler, WSL
Nina Buchmann, ETHZ
Marius Floriancic, ETHZ
Lorenz Walthert, WSL
Andreas Rigling, ETHZ

Recent scientific results (Chair: Sophia Etzold)

Linking ground based analysis of forest functioning with models and remote sensing products
Ecosystem greenhouse gas fluxes in a changing climate
Water dynamics across the soil-plant-atmosphere continuum
Coordination between degree of isohydricity and root water uptake in trees
How to reshape an irrigated forest?

12:15 Discussion/Questions

12:30 LUNCH

13:30 Nowcasting 2.0

Mirko Lukovic, WSL
Jan Svoboda, WSL
William Aeberhard, SDSC
Frank Sterck, Wageningen Uni

TreeNet's machine learning approaches (Chair: Valentina Vitali)

Virtual trees
How much rain fills a TWD?
From point data to smooth maps
Disentangling VPD and SWP effects on growth

14:30 Science with TreeNet (II)

David Basler, Uni Basel
Richard Peters, TUM
Colin Bloom, WSL
Julian Schoch, ETHZ

Recent scientific results (Chair: Petra D'Odorico)

Phenological phases from dendrometer data
Relative tree water deficit: An automated dendrometer signal to quantify drought stress in trees
Can we measure TWD from space?
The night is not long enough: Nighttime root water uptake limits drought stress in oak

15:30 Discussion/Wrap up

15:45 Coffee break / End of scientific part

16:00 TreeNet Partner Board Meeting

Budget 25
Data policy and code of conduct

16:30 End of meeting

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