

Research Unit Forest Dynamics - colloquium

Date: 14.01.2025
Time: 10:30
Room: Engler-Saal
Duration: 25 minutes
Author: Dr. Simone Maria Pieber, RG Ecosystem Ecology

Chairs: Yann Vitasse

Title: **Biogenic Volatile Organic Compound (BVOC) emissions of coniferous and broadleaf tree seedlings under basal and abiotic stress**

Abstract:

Aerosol load and chemical composition are crucial in defining the Earth's radiative balance and negatively impact air-quality standards. Atmospheric BVOC oxidation modulates atmospheric trace gases and aerosol. BVOCs are emitted by plants to fight herbivores and attract pollinators and comprise a large and chemically complex emission source into the atmosphere. Biotic stressors are known to change plants' BVOC emissions. The impact of abiotic stress (e.g., warmer and dryer climate, frost, etc.) needs, however, to be better understood. I will talk about experiments conducted at WSL to contribute to these research gaps and present experimental design, analytical methods, and first results.