LIVING LAB

CLIMATE – SOIL – WATER – PLANT | LOOKING FOR RESEARCH PARTNERS

UGT UMWELT GERÄTE TECHNIK

The Solutionists

MORE THAN STANDARD



ATMOSPHERE | PRECIPITATION | SOIL SURFACE | SOIL WATER
ROOT CAVITY | PLANT | EVAPOTRANSPIRATION

We establish a permanently operated measurement, development and demonstration platform at our site in Müncheberg, Germany. It brings together atmosphere, soil, water and plants in a real-world monitoring system.

Collaboration – Clearly Defined and Time-Limited

Master's & Thesis Projects

A clearly defined research question with access to real-world measurement data and field sites.

Measurement Campaigns & Pilot Projects

Joint experiments conducted over several weeks or several months.

Method & Technology Validation

Testing new sensors, measurement methods or control algorithms alongside established reference instrumentation.

Scientific Data Analysis

Joint analysis of soil hydrology, lysimetry, plant physiology, meteorological data and thermography.

What Is Available?

- Three large lysimeters with different lower boundary conditions
- Ready-To-Go and Easy-To-Go lysimeter
- Outdoor soil hydrology monitoring site
- Weather Station
- An instrumented Talking Tree
- Technical Support and Scientific Assistance

Measurement data are consolidated and visualized via our data management portal SVADSS.

SVADSS
Soil Vegetation Atmosphere Data Sensor Service

Potential Research Questions

- How do soil water balance and evapotranspiration respond to drought and precipitation?
- How do different lower boundary conditions affect processes in lysimeters?
- How does a newly planted tree develop in terms of water use, growth and cooling effects?
- How can sensor, lysimeter and thermal data be combined or scaled spatially?

Do You Have a Research Question, Master's Thesis or Time-Limited Project That Could Fit the Living Lab?

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