

Master thesis in Agroecology

Research question: **How stable is stable soil C?**

Mineral-associated organic matter (MAOM) is assumed to have long turnover times in the soil, stabilizing C for centuries. However, this long-held view is increasingly being questioned, highlighting the urgent need for **innovative studies on the stability of MAOM**.

Embedded in a larger experiment, we want to analyze the stability of isotopically labeled MAOM formed from fungal residues, a major contributor to stabilized C in soil.

You will learn:

- Use of **stable isotopes** to trace the fate of ^{15}N and ^{13}C released from MAOM
- Continuous CO_2 measurements with innovative **laser technologies**
- Analysis of **soil fractions** (MAOM, and particulate organic matter (POM))

Start:

- Upon Agreement

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