First Field Day:

As a class:

- Build excel sheet with samples and metadata categories
- Determine the naming strategy of the samples
- Define sites *in-situ*
- Install gas collars into the soil and sediment
- Collect water and soil for Winogradsky columns

Winogradsky columns

In teams (2 groups):

- Collect soil and sediment in whirl-pack bags
  - Fill the bags completely up
  - decide on if you use forest soil, sediment, field soil, or a combination

- Collect stream and river water in plastic bottles
  - Fill the bottle up completely
  - Decide if you are using stream or canal water

- Collect leaf litter to use as a carbon source OR alternatively think about what other carbon sources you can use (e.g. recycling paper/cardboard).

Two sites total:

1 site in the forest along the river

1 site in the field along the canal

Sub-sites:

River water
Beach sediment
Forest soil
Canal water
Field soil

Measurements/samples:

Water samples (in 50 ml falcon tubes)
Probe readings (Conductivity)
pH paper
AQ4000 Colorimeter (PO4, ClO_2)

Sediment samples (in 50 ml falcon tubes)
pH probe
Gas flux (CH_4, CO_2, N_2O)

Soil samples (in 50 ml falcon tubes)
pH probe
Gas flux (CH_4, CO_2, N_2O)

- Find a partner –this will be for your laboratory work
- Split into two groups – one group in the forest site; one in the field site (you will switch midway for the first field day)

Build excel sheet with metadata categories

Should include things like:

- Date
- Temperature (of soil, water, sediment… air?)
- pH
- What else?

Moodle: DATA 2025 folder