

## Shipping Informat on

Do you have the signed MTA?

Have you already contacted SoilBON?

German Center for Integrative Biodiversity









Food and Agriculture

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# SOI BON Field Sampling Protocol

For more information visit our website geobon.org/bons/thematic-bon/soil-bon/

# GED BON





### Why am I collect ng soil samples?

Soil organisms and ecosystem funct ons are poorly represented in macroecological analysis with extensive geographic and themat c gaps undermining our assessment of soil ecosystems worldwide. We aim to establish the first global soil biodiversity observat on network to not only reduce the geographic gaps in knowledge but also to provide support for the development of new monitoring systems and allow to assess trends in soil biodiversity and ecosystem funct ons. Const tuted as a global Soil Biodiversity Observat on Network (Soil BON), we are working in partnership with the Global Soil Biodiversity Init at ve (GSBI) and other global and regional partners to make available the soil biological and ecosystem observat ons needed to ensure living soil resources are sustainably conserved and managed and can support essent al human needs.

Soil BON partners represent a range of stakeholders, including researchers, educators, and policy advisors from academic, governmental, and private sectors. The goal is to further connect mult -nat onal partners and init at ves in a worldwide effort to understand soil biodiversity, document how it is changing, how these changes affect people who rely on soil living resources for their well-being and livelihoods. We aim to get two representat ve samples from one managed (typically farmland) and one conservat on area. For more informat on visit our website.



### Establish plot

Ident fy the correct locat on for your plot. Samples should be from a single habitat type, not a transit on.

Example 1: Sampling in boreal forest adjacent to grassland.



Example 2: Sampling in savannah adjacent to cropland.



**?** Define the central point of the plot and take GPS coordinates. Ensure LAND USE sample homogeneity across 9 subsamples.



### **Collect samples**

Please organize your sampling only when you are able to ship the soil within one week from sampling.

Start at the central point of your plot.



2 Put on gloves and remove loose lit er layer.



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Close the bag and rub it from the outside by hand. Mix the samples thoroughly but gently so soil becomes a homogenous mixture, but soil aggregates are maintained.



**3** Using the metal soil corer and/or a knife, hammer, or shovel, extract soil with volume 5 cm diameter and 10 cm depth.

**4** Place the soil in the plastic bag.

5 Repeat steps 2-4 at sampling points 2-5, then at points 6-9. Remember to use the same plastic bag each time. By the end of this step, you should have nine samples in one bag.

### Homogenize samples

Remove any aboveground vegetation (leaves, twigs, moss, grasses, etc.), big rocks and big animals (bigger than a thumb nail). Remember to leave roots in!















