

## Soil Sampling

### Canopy Soils:

#### Field Supplies

- Field notebook
- Pencil, pen sharpie
- Bulb corer
- Meter tape
- Pre-numbered plastic bags
- Paper towels or towel (to clean bulb core between sampling)

1. Collect a total of four cores per tree. Two cores on each of two branches. The first core is in the inner-crown, near the trunk. The second core is ~2m from trunk.
2. For each core, insert corer as far as it will go. Measure depth with a caliper and record depth. Repeat this until ~100g of soil are collected. Make sure to remove the litter layer before taking core.
3. Place soil core into a pre-numbered plastic bag.
4. Record tree species, tree #, CAN, core location (inner or outer), volume (C for corer), transect (branch 1 or 2) and bag # in field notebook.
5. Clean corer off with paper towels or rag.
6. Repeat this same soil collection procedure for each branch.

### Terrestrial Soils:

#### Field Supplies

- Field notebook
- Pencil, pen sharpie
- Bulb corer
- Meter tape
- Pre-numbered plastic bags
- Paper towels or towel (to clean bulb core between sampling)

7. Collect a total of four cores per tree. Two cores under each of two branches.
8. Run meter tape under first branch starting from trunk.
9. At 2 meters (inner) from trunk, remove first core down to 10cm using a bulb corer. Make sure to remove the litter layer before taking core.
10. Place soil core into a pre-numbered plastic bag.
11. Record tree species, tree #, FF (forest floor), core location (inner or outer), volume (C for corer), transect (branch 1 or 2) and bag # in field notebook.
12. Clean corer off with paper towels or rag. Take another core in the same manner as the first at the 10 meter (outer) mark.
13. Repeat this same soil collection procedure under the second branch.

Note: You may need to collect 2 cores right next to each other and combine in bag to get enough soil to process in the lab. If you do take more than 1 core make a note in the field notebook so that we can correctly calculate bulk density.