

# Frost Tube Site Definition

## Field Guide

### **Task**

To describe the site where the frost tube is located.

### **What You Need**

- GPS receiver
- GPS Field Guide*
- GPS Data Sheet*
- Frost Tube Site Definition Sheet*
- Pen or pencil
- Meter stick
- Compass
- Clinometer
- Camera

### **In the Field**

1. Fill out the top part of the Frost Tube Site Definition Sheet.
2. Use the GPS receiver and *GPS Field Guide* and *GPS Data Sheet* to identify the latitude, longitude and elevation.
3. Note if there is a GLOBE Atmosphere Site nearby and the distance and direction to it.
4. Provide the date the Frost Tube was installed (This may be different than the date you define the site).
5. Record the height of the Frost Tube above ground, its depth below ground and its total length.
6. If known, note whether or not permafrost is present and whether its distribution in the area is continuous, discontinuous or unknown. If present, measure and record the depth to permafrost.
7. Fill in the type of topography. If your site is located on a slope, use the clinometer, to calculate the slope angle and the compass to calculate slope aspect.
8. Describe the type of vegetation and, if forest is present, note the type of forest floor.
9. Note whether there are any water bodies within 100 m of the Frost Tube site and the distance to it.
10. Note whether there is human activity or structures within 100 m of the Frost Tube site and the distance to it.
11. Standing by the Frost Tube, take four photographs in the four cardinal directions, North, South, East, and West.
12. Describe any other information you think is important and enter as metadata.