

Documenting Your Atmosphere Study Site

Field Guide

Task

To describe and locate your Atmosphere Study Site

What You Need

- [Site Definition Sheet](#)
- [GPS Protocol Field Guide](#)
- Compass
- Pen or pencil
- GPS Receiver
- 50-meter Tape
- Clinometer
- Camera

In the Field

1. Fill in the information on the top of your *Site Definition Sheet*.
2. Locate your Study Site following the *GPS Protocol Field Guide*.
3. Describe all obstacles surrounding your site. (A building, tree, etc. is an obstacle if when you sight its top through a clinometer, the angle is $> 14^\circ$.)
4. Describe any buildings or walls closer to your site than 10 meters.
5. If you recorded any trees or buildings in steps 3 or 4, take photographs of the surroundings of your site looking North, East, South, and West. Identify the number of the picture for each photograph on your *Site Definition Sheet*.
6. Choose a partner whose eyes are at the same height as yours.
7. Ask them to stand 5 meters away from you going up hill on the steepest slope at your site.
8. Look at their eyes through the clinometer and record the angle. This is the slope at your site.
9. Record the compass direction to your partner.
If you have installed a rain gauge, ozone measurement station, or instrument shelter at your site, do the following steps:
10. Measure the height of the top of the rain gauge above the ground in centimeters.
11. Measure the height of the bulb of the maximum-minimum thermometer above the ground in centimeters.
12. Measure the height of the clamp for the ozone strip above the ground in centimeters.
13. Record the type of ground cover that is under the instrument shelter.