

# Weather Station Atmospheric Sensors Installation

## Field Guide

### **Task**

Install the atmospheric sensors for your weather station.

### **What You Need**

- The sensors that you are going to install
- Manufacturer's instructions
- The tools necessary to make the installation
- Compass
- [GLOBE Site Definition Sheet](#)

Note: Actual installation may vary significantly depending on which sensors you are using and the location where you are installing them.

### **In the Field**

1. Scout for a location(s) for the placement of your instrument shelter. If you are using an anemometer (to measure wind) that can be mounted separately from the rest of the sensor suite, consider mounting it in a different location. If the anemometer is attached to the rest of the sensors, then preferably mount them in a location most appropriate for the thermometer (step 4). If you are using wireless sensors, make sure that they are mounted close enough to your station console to allow for proper communication.
2. If possible, mount your sensor suite so that the temperature sensor is at a height of 1.5 meters above the ground (or 60 cm above average maximum snow depth), preferably in a flat open area with a natural surface (grassy in most places). Try to avoid having buildings within 10 meters.
3. If possible, mount the anemometer where it is above the height of nearby trees and buildings. If you mount it on top of a building, try to keep it at least 1.2 meters above the roofline.
4. Report your site definition data to the GLOBE Website as an atmosphere site with Davis Weather Station selected for thermometer type.