

Weather Station Tipping Bucket Rain Gauge Calibration

Field Guide

Task

Record a rain event (of 2 cm or more) with a rain gauge and then compare the rainfall measured with this rain gauge to the rainfall recorded by the tipping bucket of your weather station.

What You Need

- A rain gauge that meets GLOBE specifications
- Weather Station Calibration Data Sheet*

In the Field

1. Hang the plastic rain gauge in an open area within 15 m of and at the same height as the tipping bucket of your weather station. Take caution to ensure that the plastic rain gauge is placed so that it will not interfere with, or be affected by, the weather station.
2. Wait for a rain event to occur and then take your reading for rainfall from the rain gauge, following the *Rainfall Protocol Field Guide*. If the rainfall reading is more than 2 cm, record it on your *Weather Station Calibration Data Sheet* and continue.
3. Add all the rainfall values recorded by your weather station for this rain event. Record this sum on your *Weather Station Calibration Data Sheet*.
4. Repeat this process for two other rain events.
5. Report your calibration data to the GLOBE Web site.