



# GLOBE

## Air Temperature

## Data Sheets

**Print the appropriate Air Temperature Data Sheet:**

- [Air Temperature: Current Temperature or Single Day Max/Min](#)
- [Air Temperature: Multi-Day Max/Min](#)

**Or select an alternative data sheet option below:**

- Air Temperature: New Site (use this the first time you visit a sampling site to record site definition data)
  - [New Site: Current or Single Day Max/Min New Site](#) (2 pages)
  - [New Site: Multi-Day Max/Min New Site](#) (2 pages)
- [Air Temperature: Multi-Day Current Temperature](#)
- Air Temperature with field guide incorporated:
  - [Current Temperature with field guide](#)
  - [Single-Day Max/Min with field guide](#)
  - [Multi-Day Max/Min with field guide](#) (2 pages)
- [Air Temperature for youth](#)

**Note:** In order to upload max/min temperatures to the GLOBE database, you must have entered a current temperature for the day *prior* to your max/min observation.

# GLOBE Air Temperature Data Sheet: Current or Single-Day Max/Min

Name: \_\_\_\_\_ Site Name: \_\_\_\_\_

Date: \_\_\_\_\_ Time (local): \_\_\_\_\_

## Current Air Temperature Measurement

Record temperature to  
the nearest 0.5°C (liquid)  
or 0.1°C (digital).

Current Temperature: \_\_\_\_\_ °C

## Maximum and Minimum Air Temperature Measurement

Last Thermometer Reset Date: \_\_\_\_\_

Last Thermometer Reset Time: \_\_\_\_\_

Was the reset due to a battery change?  Yes  No

Collect max/min  
data within one  
hour of local  
solar noon!

Maximum Temperature: \_\_\_\_\_ °C

Minimum Temperature: \_\_\_\_\_ °C

Comments :

# GLOBE Air Temperature Data Sheet: Multi-day Max/Min

Name: \_\_\_\_\_ Site Name: \_\_\_\_\_

Date: \_\_\_\_\_ Time (local): \_\_\_\_\_

Last Reset Date: \_\_\_\_\_ Last Reset Time: \_\_\_\_\_

Was the reset due to a battery change?  Yes  No

## Air (and Soil) Temperature Measurements

Current Air Temperature: \_\_\_\_\_ °C

Current Soil Temperature: \_\_\_\_\_ °C

**Note.** If max/min air or soil temperatures are being collected:

- **After** your time of reset (for example, at 12:15 after resetting the thermometer at 12:00), then D1 will be the same date you are reading the thermometer.
- **Before** your time of reset (for example, at 11:50 before a 12:00 reset) then D1 will be the date prior to the date you are reading the thermometer.

Display Label	Corresponding Date	Maximum Air Temperature (°C)	Minimum Air Temperature (°C)	Maximum Soil Temperature (°C)	Minimum Soil Temperature (°C)
D1					
D2					
D3					
D4					
D5					
D6					

Comments :

# GLOBE Air Temperature Data Sheet: New Site (page 1)

## Current or Single-Day Max/Min

Name: \_\_\_\_\_ Site Name: \_\_\_\_\_

Date: \_\_\_\_\_ Time (local): \_\_\_\_\_

### Site Definition

Thermometer Type:  Liquid-Filled, Current Temp only  Other, Soil or Air  
 Digital Single-Day Max/Min  Unknown

### Current Air Temperature Measurement

Current Temperature: \_\_\_\_\_ °C

Record temperature to  
the nearest 0.5°C  
(liquid) or 0.1°C (digital).

### Maximum and Minimum Air Temperature Measurement

Last Thermometer Reset Date: \_\_\_\_\_

Collect max/min  
data within one hour  
of local solar noon!

Last Thermometer Reset Time: \_\_\_\_\_

Was the reset due to a battery change?  Yes  No

Maximum Temperature: \_\_\_\_\_ °C

Minimum Temperature: \_\_\_\_\_ °C

Comments :

# GLOBE Air Temperature Data Sheet: New Site (page 2)

## Current or Single-Day Max/Min

### OPTIONAL Site Definition Information:

Thermometer height: \_\_\_\_\_ cm

Steepest slope: \_\_\_\_\_

Compass angle (facing up slope): \_\_\_\_\_

Obstacles (trees, buildings, etc. that appear above 14° elevation viewed from the site):  
\_\_\_\_\_  
\_\_\_\_\_

Buildings (within 10 meters of the instrument shelter):  
\_\_\_\_\_  
\_\_\_\_\_

Surface Cover Description:

<input type="checkbox"/> Bare ground	<input type="checkbox"/> Artificial Turf	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Concrete
<input type="checkbox"/> Leaf litter	<input type="checkbox"/> Moss	<input type="checkbox"/> Muddy	<input type="checkbox"/> Mulch
<input type="checkbox"/> Open Water	<input type="checkbox"/> Peat	<input type="checkbox"/> Permafrost	<input type="checkbox"/> Permeable Pavers
<input type="checkbox"/> Rocks	<input type="checkbox"/> Roof	<input type="checkbox"/> Sand	<input type="checkbox"/> Snow/Ice
<input type="checkbox"/> Short grass (< 10 cm)	<input type="checkbox"/> Tall grass (> 10 cm)		<input type="checkbox"/> Other

Describe “Other”: \_\_\_\_\_

Other site comments (metadata): \_\_\_\_\_

# GLOBE Air Temperature Data Sheet: New Site, Multi-Day Max/Min (page 1)

Data sheet for a  
Digital Multi-Day  
Max/Min thermometer

Name: \_\_\_\_\_ Site Name: \_\_\_\_\_

Date: \_\_\_\_\_ Time (local): \_\_\_\_\_

Last Reset Date: \_\_\_\_\_ Last Reset Time: \_\_\_\_\_

Was the reset due to a battery change?  Yes  No

## Air (and Soil) Temperature Measurements

Current Air Temperature: \_\_\_\_\_ °C Current Soil Temperature: \_\_\_\_\_ °C

**Note.** If max/min air or soil temperatures are being collected:

- **After** your time of reset (for example, at 12:15 after resetting the thermometer at 12:00), then D1 will be the same date you are reading the thermometer.
- **Before** your time of reset (for example, at 11:50 before a 12:00 reset) then D1 will be the date prior to the date you are reading the thermometer.

Display Label	Date	Maximum Air Temperature (°C)	Minimum Air Temperature (°C)	Maximum Soil Temperature (°C)	Minimum Soil Temperature (°C)
D1					
D2					
D3					
D4					
D5					
D6					

# GLOBE Air Temperature Data Sheet: New Site (page 2)

## Multi-Day Max/Min

### OPTIONAL Site Definition Information:

Thermometer height: \_\_\_\_\_ cm

Steepest slope: \_\_\_\_\_

Compass angle (facing up slope): \_\_\_\_\_

Obstacles (trees, buildings, etc. that appear above 14° elevation viewed from the site):  
\_\_\_\_\_  
\_\_\_\_\_

Buildings (within 10 meters of the instrument shelter):  
\_\_\_\_\_  
\_\_\_\_\_

Surface Cover Description:

<input type="checkbox"/> Bare ground	<input type="checkbox"/> Artificial Turf	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Concrete
<input type="checkbox"/> Leaf litter	<input type="checkbox"/> Moss	<input type="checkbox"/> Muddy	<input type="checkbox"/> Mulch
<input type="checkbox"/> Open Water	<input type="checkbox"/> Peat	<input type="checkbox"/> Permafrost	<input type="checkbox"/> Permeable Pavers
<input type="checkbox"/> Rocks	<input type="checkbox"/> Roof	<input type="checkbox"/> Sand	<input type="checkbox"/> Snow/Ice
<input type="checkbox"/> Short grass (< 10 cm)	<input type="checkbox"/> Tall grass (> 10 cm)		<input type="checkbox"/> Other

Describe “Other”: \_\_\_\_\_

Other site comments (metadata): \_\_\_\_\_

# GLOBE Air Temperature Data Sheet: Multi-day Current

Name: \_\_\_\_\_ Site Name: \_\_\_\_\_

## Air Temperature Measurements

Record temperature to  
the nearest 0.5°C  
(liquid) or 0.1°C (digital).

Date	Time (local)	Current Temperature (°C)

Comments : \_\_\_\_\_

# GLOBE Air Temperature Data Sheet and Field Guide: Current

Name: \_\_\_\_\_ Site Name: \_\_\_\_\_

Date: \_\_\_\_\_ Time (local): \_\_\_\_\_

## Air Temperature Measurement

Record temperature to  
the nearest 0.5°C  
(liquid) or 0.1°C (digital).

1. Secure your thermometer:
  - a. Tie one end of a piece of string securely to the end of the thermometer and the other end to a rubber band.
  - b. Slip the rubber band around your wrist.
2. Hold the thermometer at chest height, in the shade, and away from your body for three minutes.
3. Record the temperature here: \_\_\_\_\_ °C
4. Hold the thermometer the same way for another minute.
5. Record the temperature here: \_\_\_\_\_ °C
6. Are the two temperatures within 0.5°C? If so, write the second temperature in the grey box below labeled “Current Temperature.”
7. If not, repeat steps 4-6.
8. If two consecutive temperature readings are not within 0.5°C after 7 minutes, record the last measurement in the grey box below, and report the other four measurements in the comments section, along with a note that your reading was not stable after 7 minutes.

Current Temperature: \_\_\_\_\_ °C

Comments :

# GLOBE Air Temperature Data Sheet and Field Guide: Single-Day Max/Min

Name: \_\_\_\_\_ Site Name: \_\_\_\_\_

Date: \_\_\_\_\_ Time (local): \_\_\_\_\_

Last Reset Date: \_\_\_\_\_ Last Reset Time: \_\_\_\_\_

Was the reset due to a battery change?  Yes  No

## Air Temperature Measurements

1. Within one hour of local solar noon, open the instrument shelter. Do not breathe on the thermometer.
2. Make sure that your thermometer is displaying the current temperature (no MAX or MIN symbols are on the screen. If they are, press MAX/MIN until they disappear).
3. Record the current temperature.

Current Temperature : \_\_\_\_\_ °C

4. Press the MAX/MIN button once. Record the maximum temperature.

Maximum Temperature : \_\_\_\_\_ °C

5. Press the MAX/MIN button again. Record the minimum temperature.

Minimum Temperature : \_\_\_\_\_ °C

6. Press and hold the MAX/MIN button for one second. This will reset the thermometer.
7. Close the instrument shelter.

Comments :

# GLOBE Air Temperature Data Sheet and Field Guide: Multi-Day Max/Min (page 1)

Name: \_\_\_\_\_ Site Name: \_\_\_\_\_

Date: \_\_\_\_\_ Time (local): \_\_\_\_\_

Last Reset Date: \_\_\_\_\_ Last Reset Time: \_\_\_\_\_

Was the reset due to a battery change?  Yes  No

## Air Temperature Measurements (wait at least 5 minutes from reset to record)

1. Within one hour of local solar noon, open the instrument shelter and cover flap of the digital thermometer. Do not breathe on the thermometer.
2. Turn on the air temperature display. Record the current temperature.

Current Temperature : \_\_\_\_\_ °C

3. Press the air sensor MAX button (**twice**. Note: The reading that appears after you press the MAX button once is the highest temperature that has occurred since the last time of reset and is not for a full 24-hour period. It should not be recorded.
4. You should see the MAX symbol and D.1 symbol displayed on the screen. Record this temperature below and on the data table on page 2.

D.1 MAX Temperature : \_\_\_\_\_ °C

5. Press the air sensor MAX button again. The symbol D.2 should now be displayed in place of D.1. Record this temperature in the data table on page 2. Repeat this procedure to record data the past 6 days (D.1–D.6).
6. To record minimum air temperatures, repeat steps 3–5 pressing the air sensor MIN button (bottom left button labeled MIN) instead of the MAX button.
7. For the soil temperatures, repeat the above steps using the soil buttons on the right side and reading from the lower section of the display screen.
8. After all measurements have been taken, close the cover flap of the instrument.

# GLOBE Air Temperature Data Sheet and Field Guide: Multi-Day Max/Min (page 2)

**Note.** If max/min air or soil temperatures are being collected:

- **After** your time of reset (for example, at 12:15 after resetting the thermometer at 12:00), then D1 will be the same date you are reading the thermometer.
- **Before** your time of reset (for example, at 11:50 before a 12:00 reset) then D1 will be the date prior to the date you are reading the thermometer.

Display Label	Corresponding Date	Maximum Air Temperature (°C)	Minimum Air Temperature (°C)	Maximum Soil Temperature (°C)	Minimum Soil Temperature (°C)
D1					
D2					
D3					
D4					
D5					
D6					

Comments :

# GLOBE Air Temperature Data Sheet: Youth

Name: \_\_\_\_\_

Site Name: \_\_\_\_\_

Date: \_\_\_\_\_ Time (local): \_\_\_\_\_

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## Temperature Measurement

For a **liquid** thermometer,  
record to the nearest 0.5°C.

For a **digital** thermometer,  
record to the nearest 0.1°C.

Air Temperature: \_\_\_\_\_ . \_\_\_\_\_ °C

It feels (circle one):



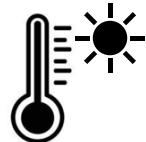
Cold



Cool



Warm



Hot

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Notes: