

Alternative Text

Slide 1

Help NASA study the Sun-Earth connection during the total solar eclipse! All you need to participate is a smartphone or tablet and a thermometer. Share your observations of air temperature and clouds with the GLOBE Observer app's Eclipse tool.

Slide 2

When you first arrive, document your observation site with the Land Cover tool. Every 15 to 30 minutes, or anytime you notice a change in the clouds, submit a Clouds observation. Every 5 to 10 minutes, enter air temperature measurements in the Eclipse tool.

Slide 3

As the Moon blocks the Sun, it will get darker, the air temperature will drop, and some clouds may begin to dissipate.

Slide 4

You can use a digital or liquid-filled thermometer. However, the weather app on your phone is not a substitute for a separate thermometer.

Slide 5

Place your thermometer in a shaded, but well-ventilated area. It should not be in direct sunlight. For example, you can hang your thermometer under a chair or umbrella or hold it in your own shadow.

Slide 6

Your observations are most useful to scientists if you collect temperature data through all phases of the eclipse. The temperature will likely drop as the Moon covers the Sun, reaching the lowest temperature shortly after maximum eclipse. As the Moon moves away from the Sun, the temperature will rise again.

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GLOBE Observer, the app of the GLOBE Program, is available on the Apple App Store and Google Play. To download the app, go to [observer dot globe dot gov slash get hyphen the hyphen app](https://observer.globe.gov/get-hyphen-app).