

NASA invites you to become a citizen scientist during U.S. total solar eclipse

July 21 2017, by Rani Gran And Kelsey Wright

NASA invites eclipse viewers around the country to participate in a nationwide science experiment by collecting cloud and air temperature data and reporting it via their phones.

The Global Learning and Observations to Benefit the Environment, or GLOBE, Program is a NASA-supported research and education program that encourages students and citizen scientists to collect and analyze environmental observations. GLOBE Observer is a free, easy-to-use app that guides citizen scientists through data collection.

On Aug. 21, a [total solar eclipse](#) will occur across the entire continental United States. Crossing the country from Oregon to South Carolina over the course of an hour and a half, 14 states will experience night-like darkness for approximately two minutes in the middle of the day. The eclipse enters the U.S. at 10:15 a.m. PDT off the coast of Oregon and leaves U.S. shores at approximately 2:50 p.m. EDT in South Carolina.

All of North America will experience at least a [partial eclipse](#).

"No matter where you are in North America, whether it's cloudy, clear or rainy, NASA wants as many people as possible to help with this [citizen science project](#)," said Kristen Weaver, deputy coordinator for the project. "We want to inspire a million eclipse viewers to become eclipse scientists."

In order to participate, first download the GLOBE Observer app and

register to become a citizen scientist. The app will instruct you on how to make the observations. Second, you will need to obtain a thermometer to measure air temperature.

Observations will be recorded on an interactive map.

To join in the fun, download the GLOBE Observer app observer.globe.gov/about/get-the-app. After you log in, the app explains how to make eclipse observations.

More information: To learn more about how NASA researchers will be studying the Earth during the eclipse visit eclipse2017.nasa.gov/earth

Provided by NASA

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