



Kids using certified eclipse glasses. (Credit: Rainbow Symphony)

SOLAR ECLIPSE 2017 LINKS AND RESOURCES

Courtesy of: *GLOBE Mission EARTH*



Wherever you are in North America on August 21st, 2017 (whether in the path of totality or outside of it), YOU can help NASA by collecting GLOBE data before and after the eclipse, even if it's cloudy! Use the links and resources below for ideas on possible lesson plans, activities and additional information.

LINKS AND RESOURCES

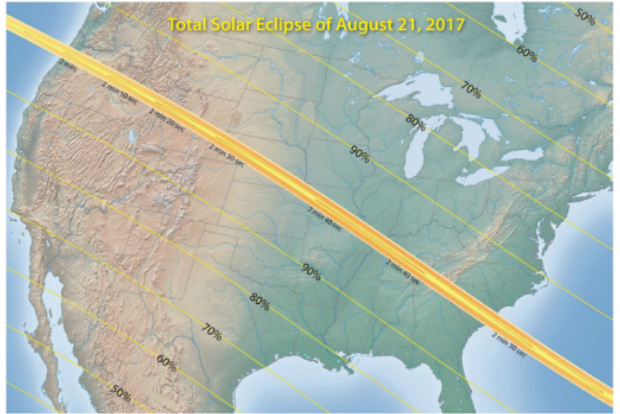
Website/Resource	Details
GLOBE's Eyes on the Great American Eclipse: https://www.globe.gov/web/eclipse/overview	This is GLOBE's go-to page for all things 2017 Solar Eclipse. Includes research ideas, learning activities, demos & more.
Download the GLOBE Observer App at: http://observer.globe.gov/	Use this app to quickly and easily collect clouds data for GLOBE, during the eclipse and at any other time!
NASA Total Eclipse EDUCATION Website: https://eclipse2017.nasa.gov/education	Click on the K-12 link, and you will find links to activities for elementary, middle and high school levels.
National Solar Observatory's Educator Page: http://eclipse2017.nso.edu/educators/	Scroll down for a wide variety of resources. Ex. check out the animation called "Shadow moving across the USA".
NSTA's Solar Science Observer's Guide: http://static.nsta.org/extras/solarscience/SolarScienceInsert.pdf	This is an 8-page color, printable guide on the basics of what a solar eclipse is, how to safely observe it, and information specific to the August 21 st , 2017 eclipse.
PBS Teach about the 2017 Solar Eclipse: http://tinyurl.com/kvktmne	Check out the <i>Teacher Toolkit</i> , and all of the other incredible resources for educators on this website.

Instructions for entering GLOBE data

- To enter data, go to www.globe.gov. You will need to get an account and get trained before Aug. 21.
- Enter the **Site Definition** for an Atmosphere Site. The **Sheet** is here <https://tinyurl.com/m6ezvtn>.
- Use the data table on the reverse of this page to record clouds, air and surface temperature data.
- Enter the data you collect onto the GLOBE website! Go to: <https://www.globe.gov/globe-data/data-entry> and choose **Data Entry – Desktop Forms**.
- You can also enter your clouds data using the **GLOBE Observer App** (<http://observer.globe.gov>).

Connect with GLOBE Mission EARTH!
 Webpage: <https://www.globe.gov/web/mission-earth/overview>
 Email: globe.mission.earth@gmail.com
 Facebook: www.facebook.com/globemissionearth
 Twitter: [@globemissioner](https://twitter.com/globemissioner)
 YouTube: <http://tinyurl.com/globemissionearth>

North American Eclipse 8-21-17



Map showing where the eclipse will be partial. Each diagonal line indicates how much of the Sun's area will be covered (Credit: Michael Zeiler and GreatAmericanEclipse.com)

For assistance & more information, contact:
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 GLOBE Mission EARTH
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 Sponsored by:

RECORDING YOUR DATA FOR THE TOTAL SOLAR ECLIPSE

Date: August 21 st , 2017		City/State:		Ground Cover Type (ex. Grass, Asphalt):		Latitude/Longitude:	
TIME	% Cloud Cover	Cloud Type(s) (list all, including type and number of contrails)		Air Temperature	Surface Temperature (collect 3 random readings and average)		
60 minutes before maximum obscuration							
50 minutes before maximum obscuration							
40 minutes before maximum obscuration							
30 minutes before maximum obscuration							
20 minutes before maximum obscuration							
10 minutes before maximum obscuration							
During Maximum Obscuration – no need to collect any data, just enjoy the view!							
10 minutes after maximum obscuration							
20 minutes after maximum obscuration							
30 minutes after maximum obscuration							
40 minutes after maximum obscuration							
50 minutes after maximum obscuration							
60 minutes after maximum obscuration							

NOTE: all units should be metric for use in GLOBE.

FOR FURTHER INFORMATION:

- GLOBE Teacher's Guide (Atmosphere Protocols): <https://www.globe.gov/do-globe/globe-teachers-guide/atmosphere>
- How COOL is the Eclipse? <https://observer.globe.gov/science-connections/eclipse2017>
- Get Ready for the Eclipse with GLOBE Observer App: <https://tinyurl.com/ybuehauv>
- GLOBE Observer Clouds Training: <https://observer.globe.gov/training/clouds>
- NASA – Resources for Informal Education on Total Solar Eclipse 2017: <https://informal.jpl.nasa.gov/museum/content/eclipse-2017>
- Sky & Telescope Solar Eclipse page: <https://tinyurl.com/ybgzvkmv>
- PBS Educational Resources: <http://bit.ly/TeachEclipse2017>
- NSTA Solar Eclipse/Learning Center: https://learningcenter.nsta.org/products/online_courses/VC_161015.aspx

