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.

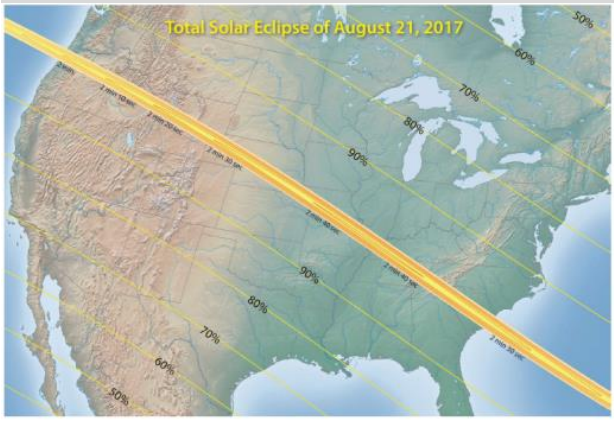
LINKS AND RESOURCES

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 21st, 2017 eclipse.
PBS Teach about the 2017 Solar Eclipse: http://tinyurl.com/kvktmne	Check out the *Teacher Toolkit*, and all of the other incredible resources for educators on this website.

Instructions for entering GLOBE data

1. To enter data, go to www.globe.gov. You will need to get an account and get trained before Aug. 21.
2. Enter the **Site Definition** for an Atmosphere Site. The **Sheet** is here https://tinyurl.com/m6ezvtn.
3. Use the data table on the reverse of this page to record clouds, air and surface temperature data.
4. 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**.
5. You can also enter your clouds data using the **GLOBE Observer App** (http://observer.globe.gov).

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)

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: @globemissionear
YouTube: http:tinyurl.com/globemissionearth

For assistance & more information, contact:

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Sponsored by: NASA

The material in this document is based upon work supported by NASA under grant award No. NNX16AC54A. Any opinions, findings, and conclusions or recommendations expressed in this material are those of author(s) and do not necessarily reflect the views of the National Aeronautics and Space Administration.

RECORDING YOUR DATA FOR THE TOTAL SOLAR ECLIPSE

Date: August 21st, 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/ybgzvkmp
- PBS Educational Resources: http://bit.ly/TeachEclipse2017
- NSTA Solar Eclipse/Learning Center: https://learningcenter.nsta.org/products/online_courses/VC_161015.aspx

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