



WHAT YOU CAN SEE DURING A TOTAL SOLAR ECLIPSE

- During the partial phase, observe the sun WITH PROPER EYE PROTECTION and see the moon slowly cover the sun.

- 10 to 15 minutes before totality observe your surroundings without eye protection. Shadows will become sharper. Landscape takes on a faint eerie steel-blue color. Animals may show confused behavior (dogs bark and howl, birds go to roost). A couple of minutes before totality, the western horizon will get dark.



- In the last seconds before totality WITH PROPER EYE PROTECTION try to catch a glimpse of Baily's Beads and the Diamond Ring Effect
- **Only** during totality your eye protection can be removed so that the sun's corona, stars and planets can be seen.

2017 Total Eclipse Orangeburg County



August 21, 2017

Sponsored by



Orangeburg County
Chamber of Commerce
155 Riverside Drive | P. O. 328
Orangeburg, SC 29115

Orangeburg, SC

"Solar 17"

Monday, August 21, 2017

South Carolina State University
Oliver C. Dawson Bulldog Stadium

Gates open
11:00 am - 4:00 pm

Vendors

Hands-On Activities

Performances by the Marching 101

Research Balloon Launch

For admission info email
eclipse@scsu.edu

Eclipse glasses available while
supplies last

Santee, SC

"Past to Present Santee History Tour"

Saturday, August 19, 2017

1:00 pm - 3:00 pm

Santee Cultural Center

"Eclipse on the Lawn"

Beginning at 8:00 am

Monday, August 21, 2017

Local band "Visions"

11:00 am—3:00 pm

Santee Town Hall Complex
194 Brooks Blvd
Santee, SC 29142

Bowman, SC

Yonderfield

"Solar Eclipse Festival"

Monday, August 21, 2017

The Great Inflatable Race
11:00 am

Eclipse Viewing
2:30 pm

Live Music 3:30 pm
Uncle Cracker
Corey Smith
Edwin McCain

For tickets and info visit
www.yonderfield.com
180 Log Cabin Road
Bowman, SC 29018

The Total Eclipse

August 21, 2017 some parts of the United States will experience a Total Eclipse. The Moon's umbral shadow will fly across the United States, from Oregon to South Carolina, in a little over 90 minutes. The path of this shadow, the path of totality, is where observers will see the Moon completely cover the Sun for about two and a half minutes.



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

Viewing the Eclipse Safely

To look at the Sun directly, except during the total phase of the eclipse, you need a good filter that can cut out not just its intense light, but also its ultraviolet and infrared waves.

Sunglasses or smoked glass are NOT OK! If you have access to welder's supplies #14 arc-welder's glass is an excellent filter (but it has to be #14 or higher and not lower numbers). Or you can use special black or aluminized polymer filters that are sold as eclipse glasses; but make sure you get them from a reliable source and that they are certified.

Eclipse shades or glasses are available locally at several stores and online from Amazon and Walmart. The eclipse can also be viewed safely using one of several easily constructed indirect methods such as pinhole projection, optical projection, or a sun funnel. These methods are great projects for children and adults to construct prior to the event and to use during the eclipse. Details of these methods and do-it-yourself instructions can be found at:

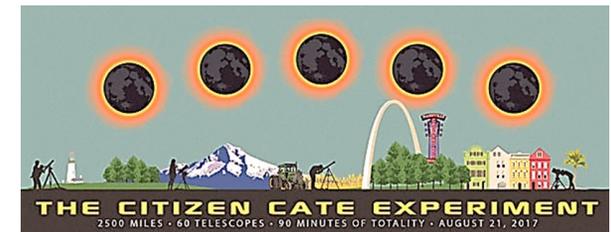
<https://eclipse.aas.org/eye-safety/projection>.

SC State University

SC State University & Orangeburg-Calhoun Technical College will host events in the Orangeburg Area to prepare for the August 21, 2017 Total Solar Eclipse. These events will include:

- Public Talks
- School Visits
- Teacher Training

On the day of the Eclipse, SCSU will host observing stations including glasses to safely view the sun. A research balloon launch will also take place on the campus to document atmospheric conditions during totality.



As part of the national Citizen CATE Experiment SCSU will also coordinate research observing sites across the state with the following partners:

- Clemson University
- Lander University
- Coker College
- Orangeburg-Calhoun Technical College



SC State University Contact:
Dr. Donald K. Walter
803-533-3733
eclipse@scsu.edu
www.scsu.edu/eclipse

Orangeburg, SC will experience this from 2:43 pm - 2:45 pm.

The last total solar eclipse that crossed the US with a nationwide band of totality was on June 8, 1918 and it crossed the United States from Washington State to Florida.



2017 Path across South Carolina