The Solar Eclipse of August 21, 2017 in Georgia and the Carolinas

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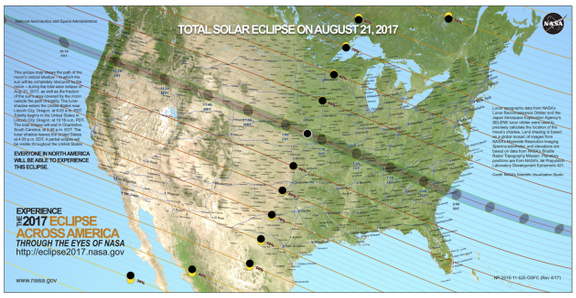
With thanks to NASA, Amer. Astronomical Socy.(AAS), and Richard Dasher for maps and pictures used by permission

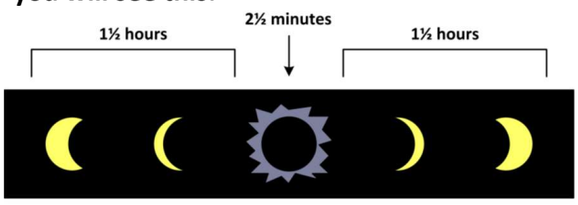
On August 21, 2017, all of North America will see an eclipse of the sun.



The eclipse will be TOTAL → for about 2 ½ minutes along a narrow track from Oregon to South Carolina

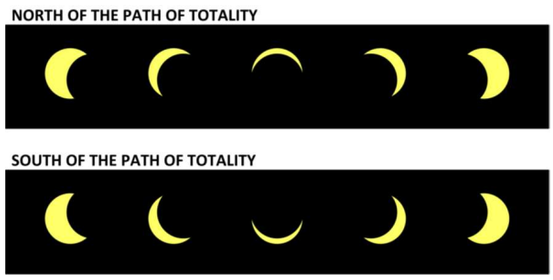
and PARTIAL → at all other times and places.

In the middle of the path of totality, you will see this:



Near the edges of the path, you get less than 2½ minutes, so get in the middle if possible.

Outside of the path, you ONLY see a PARTIAL eclipse. So get in the path if possible.



Times and places

	Partial eclipse begins	Totality begins	LENGTH OF TOTALITY	Partial eclipse ends
Hiawassee, GA	1:06 pm	2:35:01 pm	2m 27s	4:06 pm
Franklin, NC	1:07 pm	2:35:24 pm	2m 30s	4:07 pm
Clayton, GA	1:07 pm	2:35:46 pm	2m 35s	4:07 pm
Anderson, SC	1:09 pm	2:37:50 pm	2m 34s	4:09 pm
Columbia, SC	1:13 pm	2:41:50 pm	2m 30s	4:13 pm

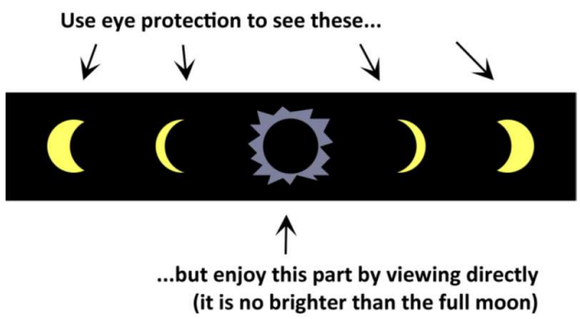
How to see it safely

Why safety matters

It is always dangerous to look directly at the sun. Eclipse eye injury can be painless and permanent.

Sunlight is the same during the eclipse as at any other time. The eclipse doesn't make the sun emit dangerous rays; the sun already does that. The eclipse makes people look.

Protect your eyes WHENEVER ANY PART of the bright surface of the sun is visible.



Method 1: Safety-certified filters or eclipse glasses

New for 2017, these have an ISO safety certification.

Approved by Amer. Acad. of Ophthalmology
https://www.aao.org/eye-health/tips-prevention/solar-eclipse-eye-safety

WHAT'S NOT SAFE: sunglasses, smoked glass, photographic filters not certified for solar astronomy, silvery plastic not certified as safe, ANY filter used at the EYEPIECE of a telescope.

Method 2: Projection through a small hole

Make a hole in a piece of paper; look at the shadow. It will show you the shape of the eclipsed sun.
(It's easy to supervise school groups doing this; all the children face away from the sun!)