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.

Times and places

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

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!)

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

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

NORTH OF THE PATH OF TOTALITY

SOUTH OF THE PATH OF TOTALITY

1½ hours

2½ minutes

1½ hours

Partial

eclipse begins

Totality

LENGTH

PARTIAL

eclipse begins

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

Partial

eclipse

2m 30 s

4:13 pm

...but enjoy this part by viewing directly
(it is no brighter than the full moon)