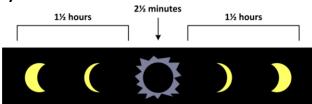
The Solar Eclipse of August 21, 2017 in Kentucky and Tennessee

Michael A. Covington, Senior Research Scientist Emeritus, The University of Georgia www.covingtoninnovations.com/eclipse 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.



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.

Path of totality

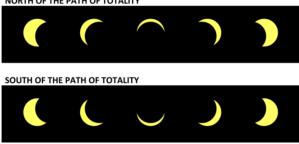
The eclipse will be TOTAL -> for about 2 ½ minutes along a narrow track from Oregon to South Carolina

and PARTIAL at all other times and places.



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

NORTH OF THE PATH OF TOTALITY





Totality is around 1:25 p.m. CDT, 2:25 p.m. EDT. Check www.eclipse2017.org for exact time at your site.

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.

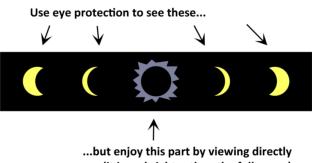
Method 1: Safety-certified filters or eclipse glasses



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.



(it is no brighter than the full moon)

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!)