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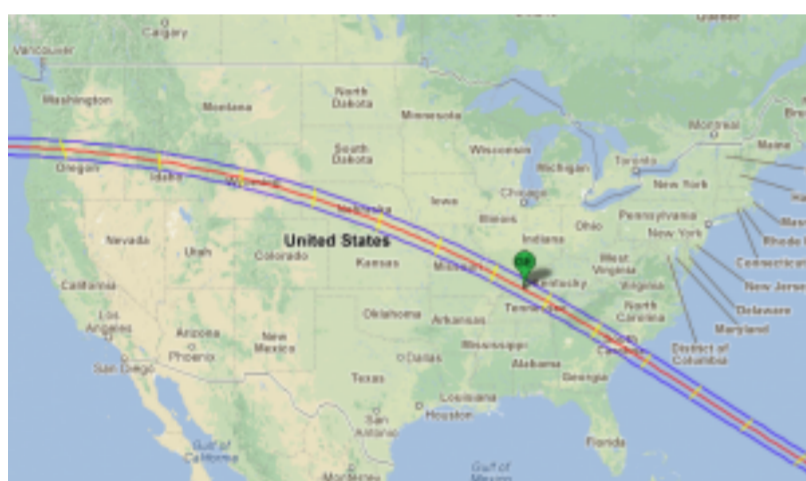
$E=mc^2$

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Blog

2017 Total Solar Eclipse

Posted by admin on November 12, 2012



Totality cometh. On Monday, August 21, 2017, a solar eclipse occurs across all of North America, with *totality* bedazzling a narrow swath spanning Oregon to South Carolina. Prepare thyself for one of nature's grandest spectacles!

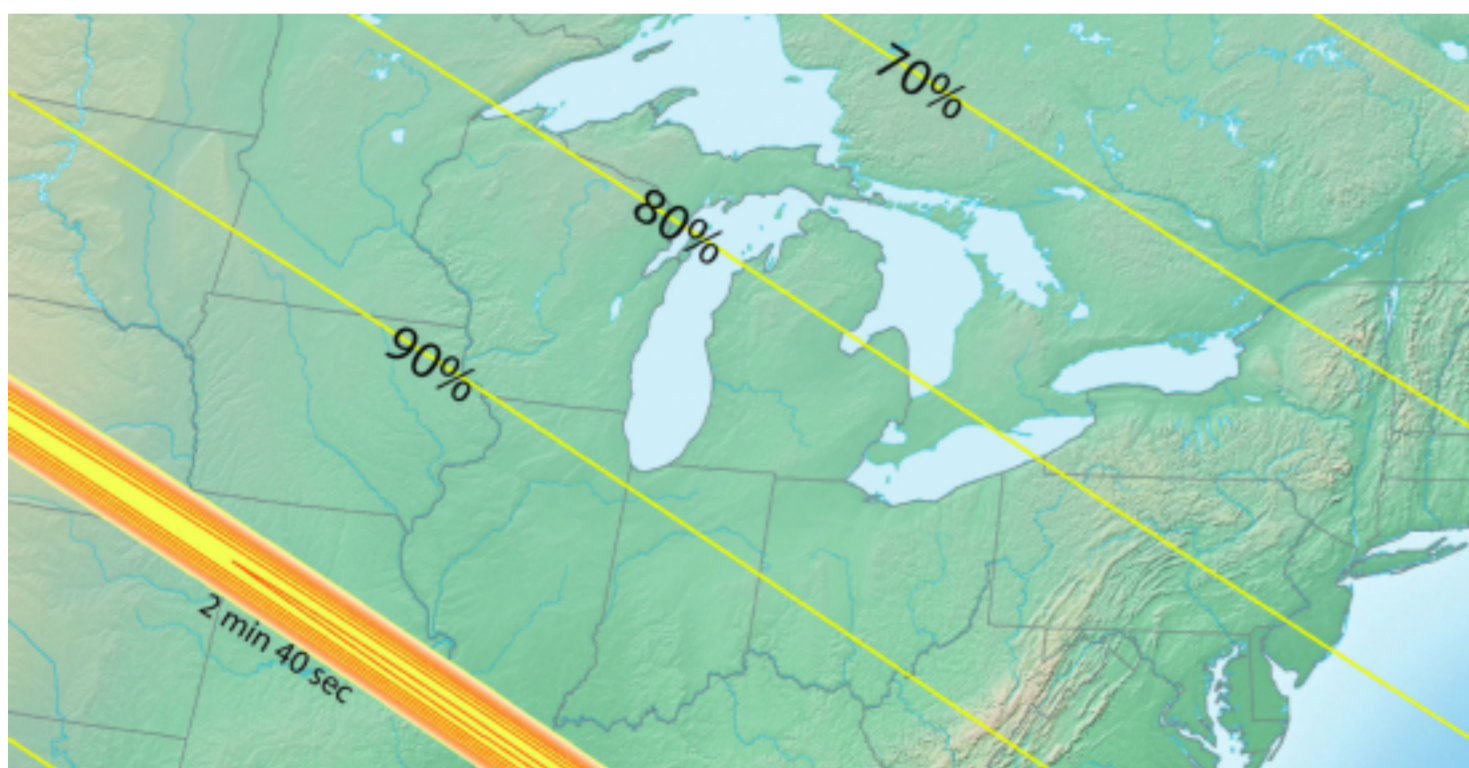
[Detailed maps here.](#)

It's not too early to anticipate the event and where you plan to observe it. See [interactive map](#) by Fred Espenak, NASA GSFC, or visit <http://eclipse-maps.com> for eclipse maps (past, present, and future) published by Michael Zeiler.

Observers along the central line could see over two minutes of totality, whereas outside the swath observers will see a partial eclipse. Because a solar eclipse occurs when the moon passes directly in front of the sun, you have to use proper eye protection to view the sun during the entire partial eclipse. Only during totality when direct sunlight is unquestionably and completely obscured by the intervening moon can anyone look without protective eyewear.

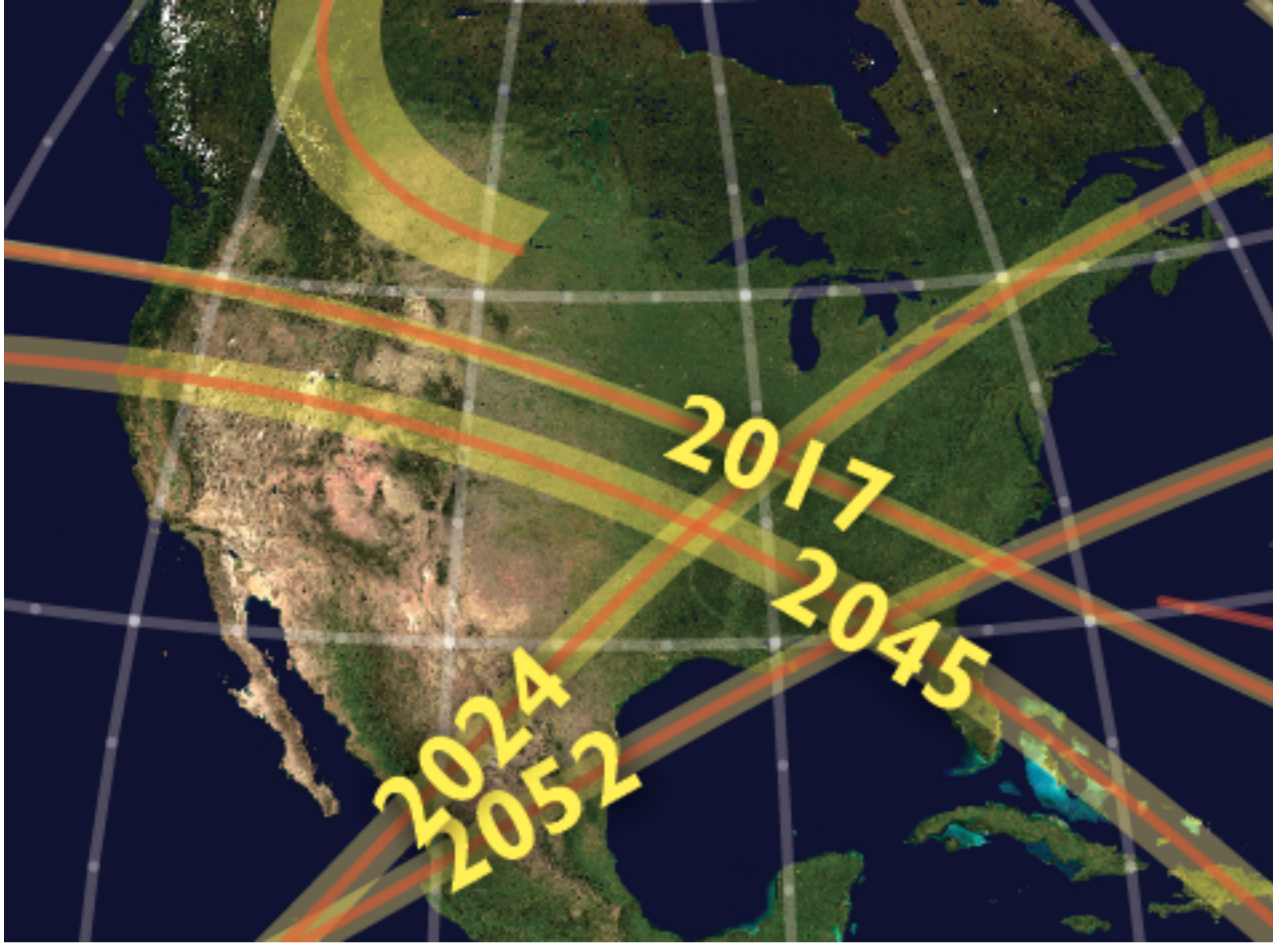
One preferred method for a crowd to view the solar event concurrently is with a Sun Funnel. Instructions for making the rear projection device are online at http://www.transitofvenus.org/docs/Build_a_Sun_Funnel.pdf.

More about the 2017 total solar eclipse will certainly follow. For now, heads up on Monday, August 21.



Above: Eclipse map by Michael Zeiler shows percentage of totality for the Midwest, with a swath across the US experiencing 100% total solar eclipse. Proper eye protection is required for all observers.

Below: Eclipse map by Michael Zeiler shows Fifty Years of Solar Eclipses.



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