

National Aeronautics and  
Space Administration



# Solar Eclipse 2024

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# What are eclipses?

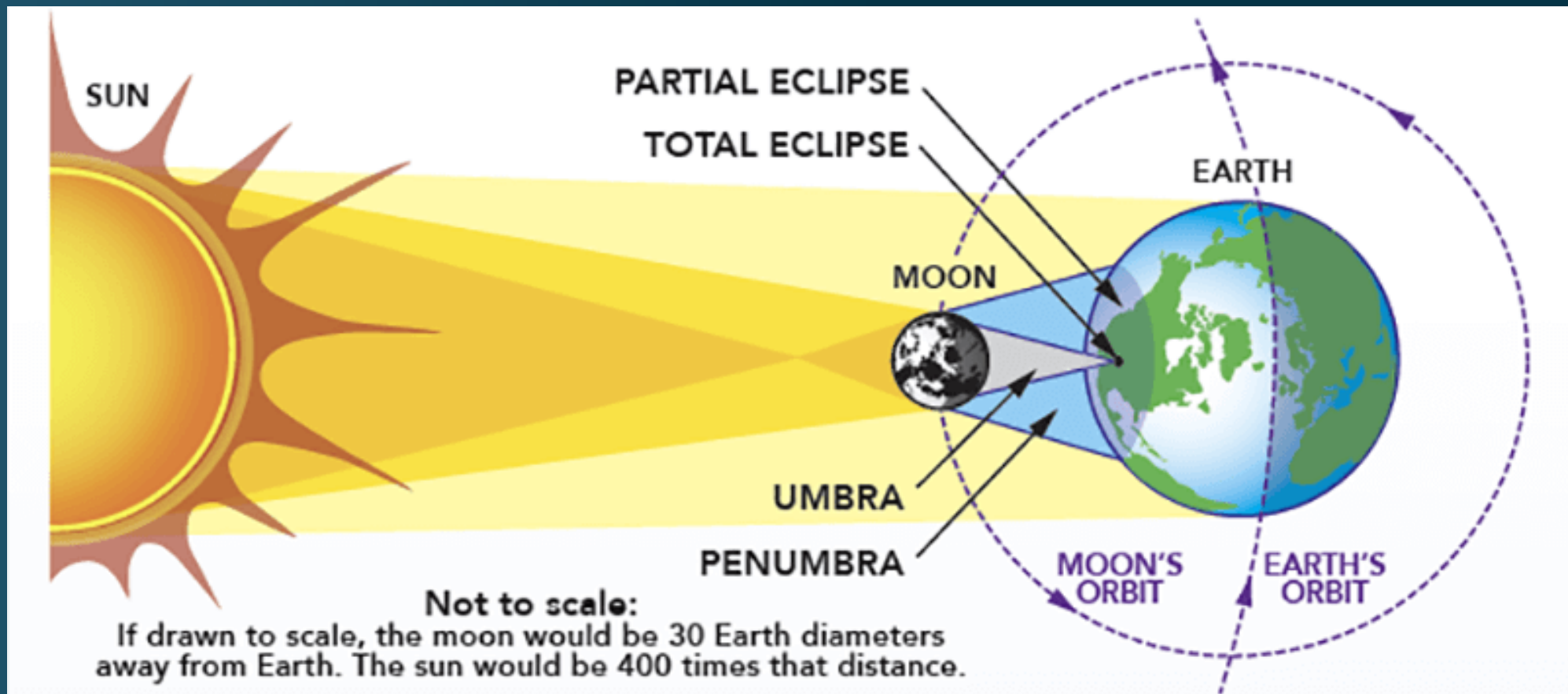






Image Credit: S. Habbal, M. Druckmüller and P. Aniol





A vertical banner on the left side of the slide features a space-themed illustration. It includes a bright yellow sun at the bottom, a blue and white Earth horizon, a grey crescent moon, a reddish-brown Mars, and a yellow Saturn with its rings at the top, all set against a starry blue and green cosmic background.

# NASA Involvement in the 2024 Total Solar Eclipse

**Safety**- *NASA's #1 core value and the #1 priority during any event*

**Science** - *Awareness of missions, research, and new discoveries*

**Public Engagement** - *Unique opportunity to participate in a celestial event*

**Science Activation** - *Learners experience "doing" science*

**Citizen Science** - *Citizens gathering data for scientific analysis*

# SAFELY observing THE SUN

**WARNING!** Never look directly at the sun without proper eye protection. You can seriously injure your eyes.



Check with local science museums, schools and astronomy clubs for eclipse glasses—or purchase an ISO 12312-2 compliant pair of these special shades!



View the eclipse with special eclipse glasses.



Regular sunglasses are not safe to view the eclipse.

**SUN  
FUNNEL**



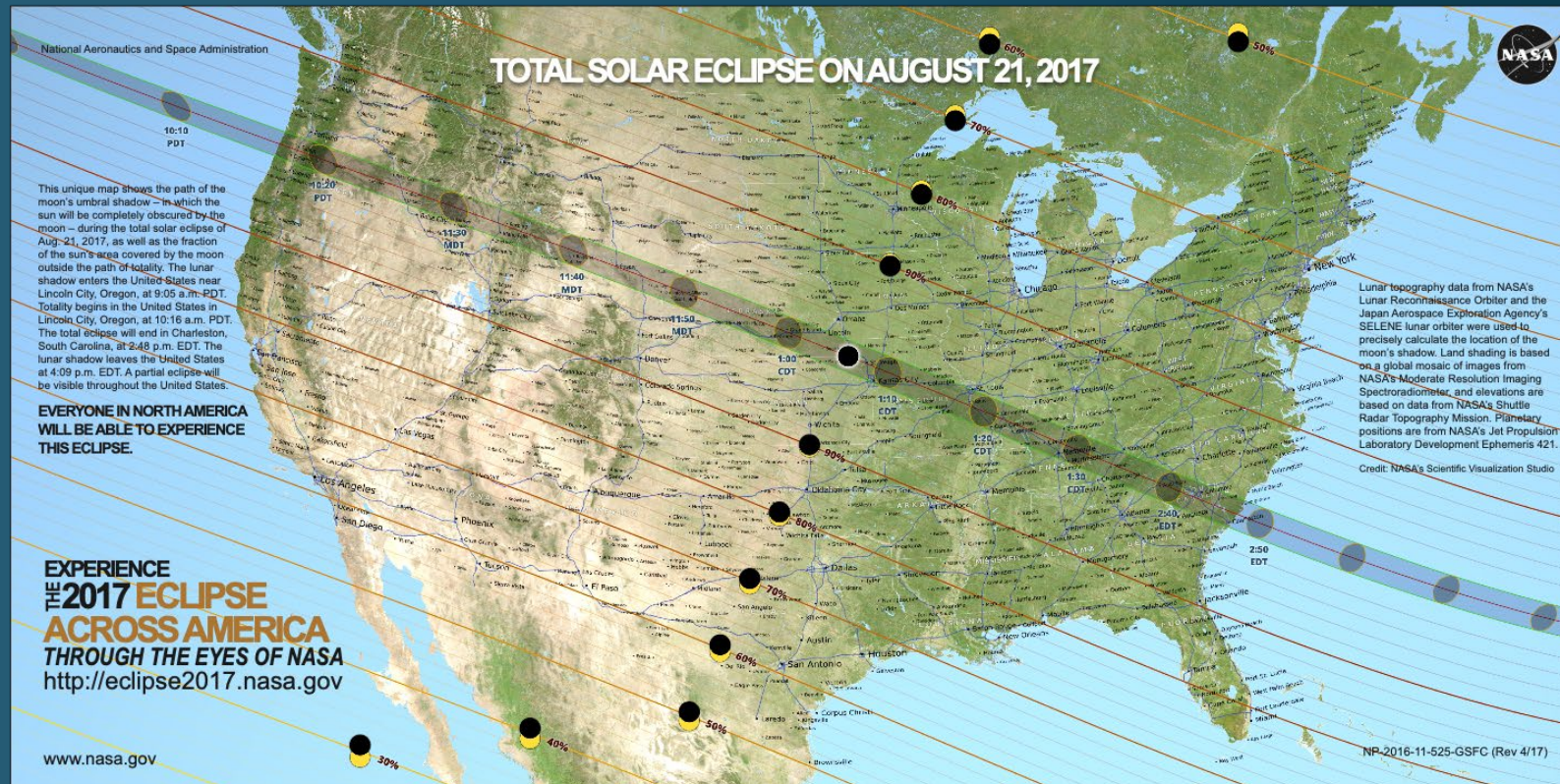
Inexpensive and easy to build, the sun funnel is a device that completely encloses the light coming from a telescope and projects a magnified image of the sun, large enough for many people to view at once.

<http://eclipse2017.nasa.gov/make-sun-funnel>

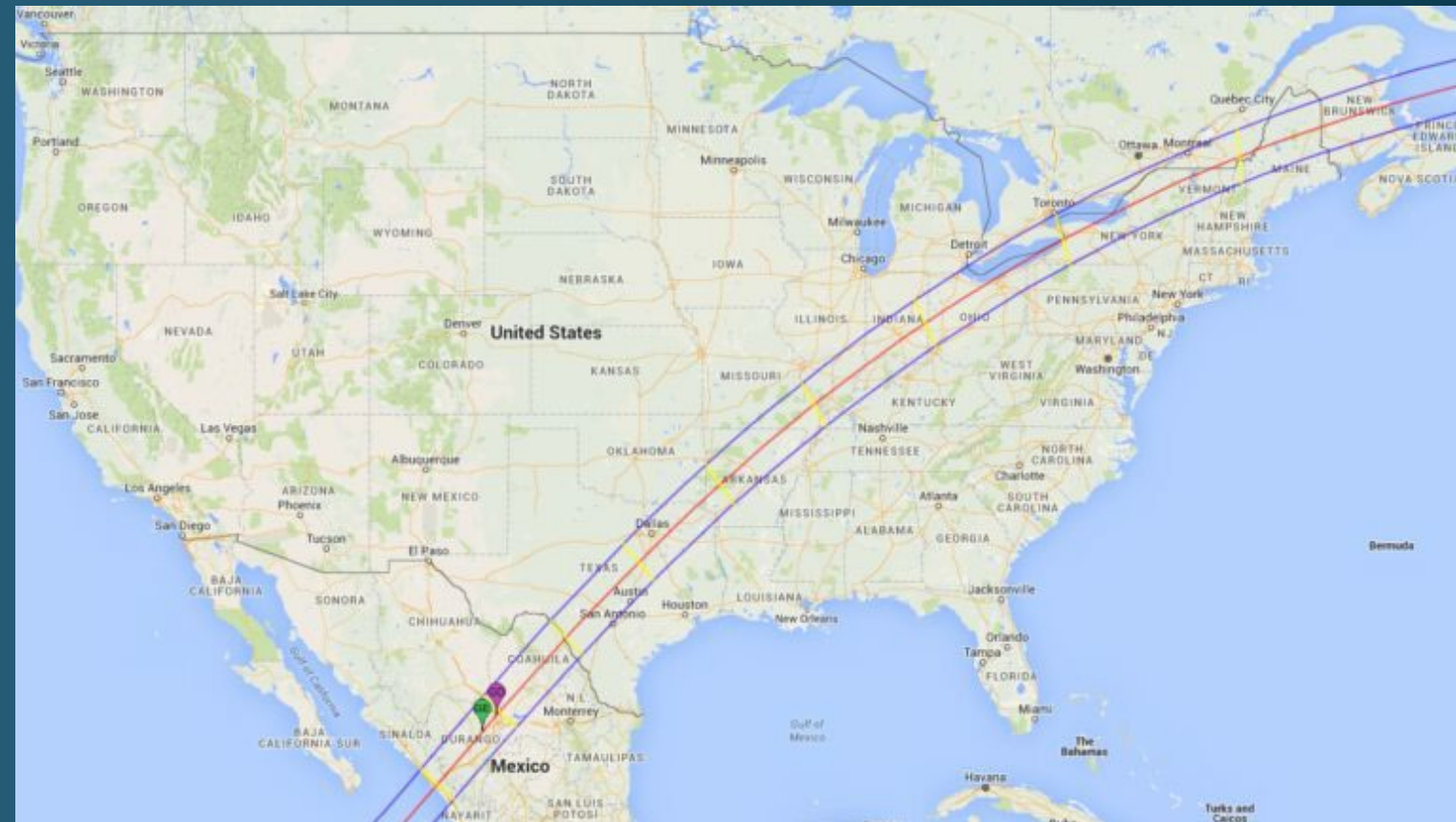


# Total Solar Eclipse 2017 by the numbers

- *Monday, August 21, 2017*
- 70 miles wide path of totality
- Maximum duration of totality 2 minutes 40 seconds
- Sweeping from Oregon to South Carolina
- 12.2 Million Americans lives within the path of the total solar eclipse
  - Estimated that 215 Million Americans saw the 2017 event either partial or full eclipse



# Total Solar Eclipse 2024 by the numbers



- *Monday, April 8, 2024*
- 115 miles wide path of totality
- Maximum duration of totality 4 minutes 26 seconds
- Sweeping from Mexico through 13 states into Canada.
- 31.5 million people live in the path-  
2.5x that of the 2017 eclipse!
  - Estimates are around 40-50 million people could see the total eclipse.

Next total eclipse is 2045!