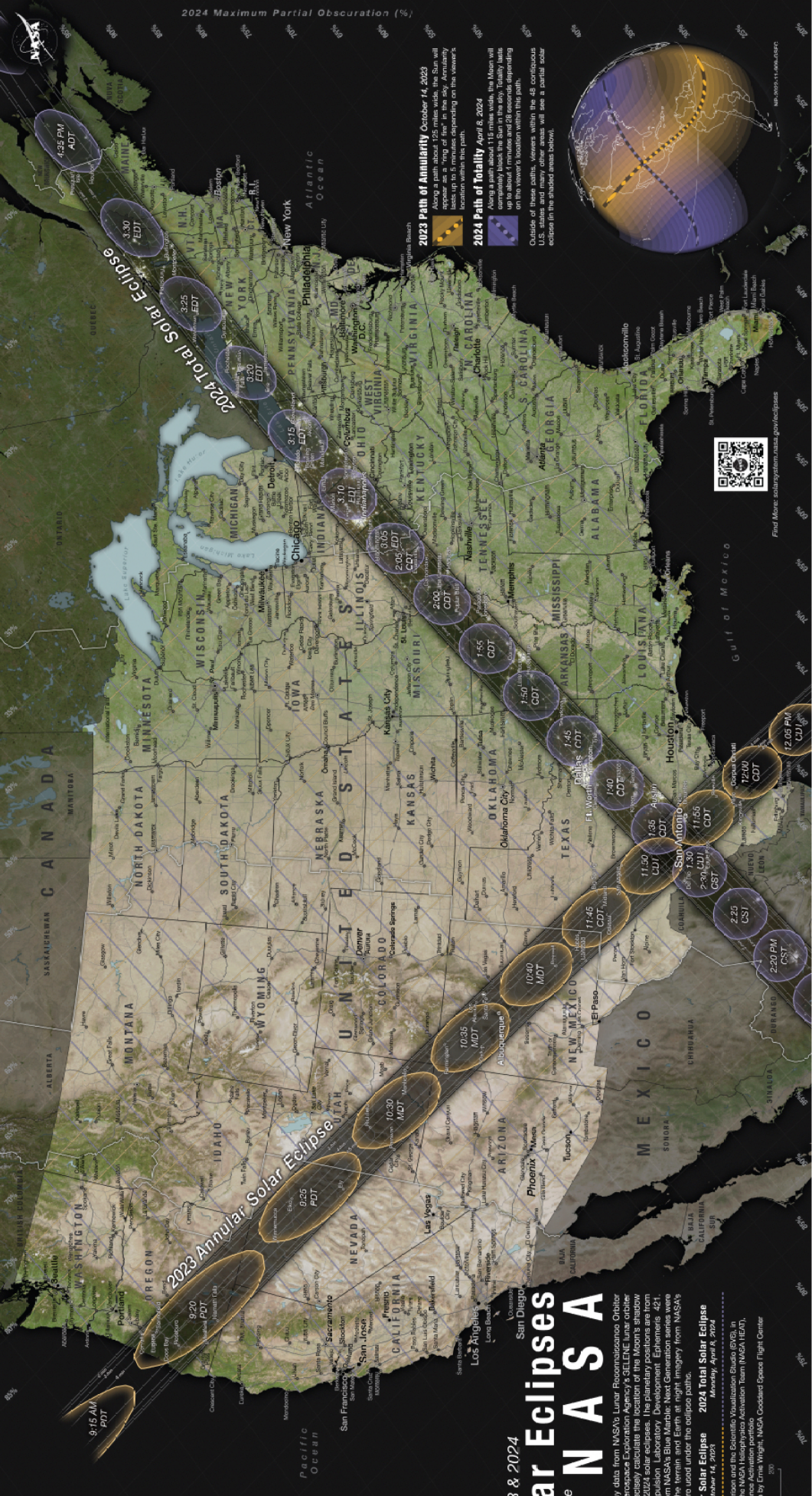




The 2023 & 2024 Solar Eclipses through the eyes of NASA

Lunar topography data from NASA's Lunar Reconnaissance Orbiter (LRO) and the Moon Mineralogy Mapper (M²) were used to precisely calculate the location of the Moon's shadow for the 2023 and 2024 solar eclipses. The planetary positions are from NASA's Jet Propulsion Laboratory Development Ephemeris 421. Earth imagery from NASA's Blue Marble Next Generation series were used to create the terrain and Earth at night imagery from NASA's Earth Observing satellite series were used to create the eclipse paths.

2023 Annular Solar Eclipse - Saturday, April 8, 2023
2024 Total Solar Eclipse - Monday, October 14, 2023

Credit: Michael Carrasco and the Scientific Visualization Studio (SVS), in collaboration with the NASA Heliophysics Activation Team (NASA HAT), Part of NASA's Science Activation Program (NASA SAP), and the NASA Science Mission Directorate (NSM), NASA Goddard Space Flight Center

2023 Path of Annularity October 14, 2023
Along a path about 195 miles wide, the Sun will be completely blocked by the Moon. Annularity occurs up to 5 minutes in the day. Annularity occurs up to 5 minutes in the day. Annularity occurs up to 5 minutes in the day.

2024 Path of Totality April 8, 2024
Along a path about 115 miles wide, the Moon will completely block the Sun in the day. Totality lasts up to about 4 minutes and 28 seconds depending on the viewer's location within this path.

Outside of these paths, viewers within the 48 contiguous United States and many other locations will see a partial solar eclipse from the shaded areas below.



Find More: solarsystem.nasa.gov/eclipses