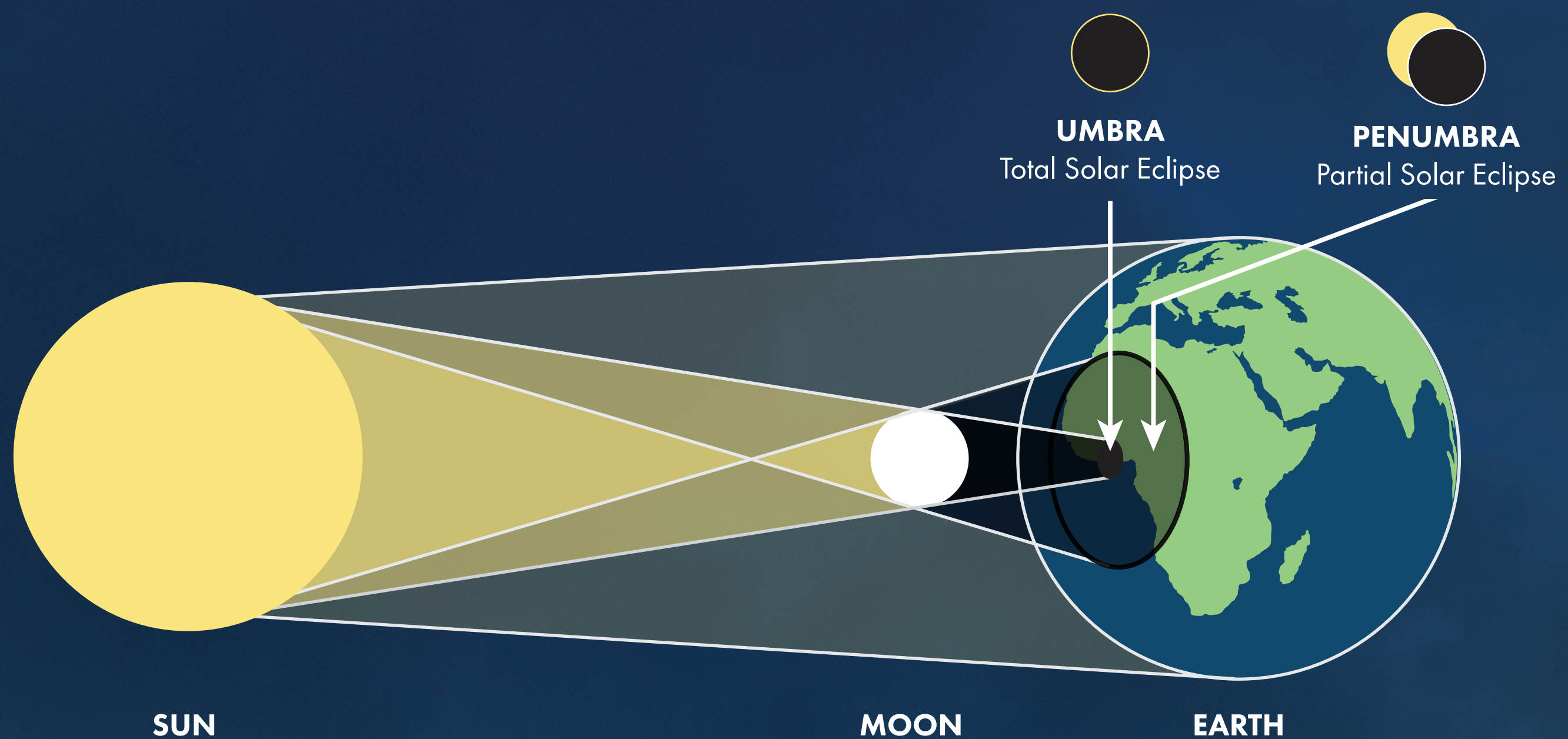


ECLIPSE PATHS



Only the areas on Earth that fall in the path of the Moon's shadow experience a solar eclipse.

Illustration adapted from Nandalal Sarkar/Shutterstock.

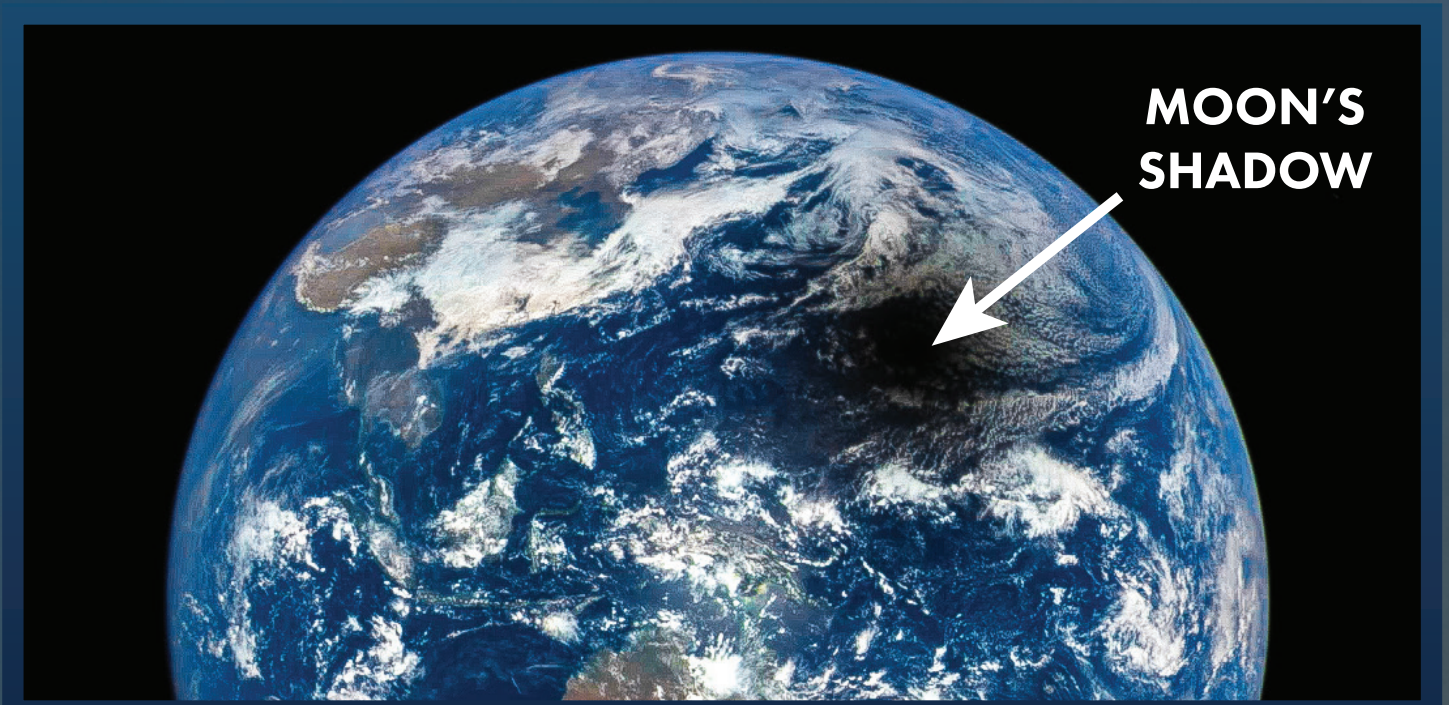
IN AND OUT OF THE PATH OF TOTALITY

The center of the Moon's shadow, or umbra, is its darkest part. There, the Sun is completely obscured by the Moon, and viewers experience a total eclipse.

The penumbra is an extended part of the shadow that is slightly lighter than the umbra. There, the Sun is only partially obscured, and viewers experience only a partial eclipse.

HOW OLD WILL YOU BE DURING THE NEXT TOTAL SOLAR ECLIPSE?

Total solar eclipses occur somewhere on Earth about every 18 months. Partial solar eclipses are more common and occur two to five times per year. The next total solar eclipse that can be viewed from the contiguous United States won't be until 2044. And the next one to cross Vermont won't be until 2079!



NASA, courtesy of DISCOVER ERIC Team. Label added.

The Moon's shadow will race across Vermont at approximately 2,700 miles per hour during the April eclipse.