

# Solar Eclipse 2024

April 8, 2024

## What?

A total solar eclipse occurs when the moon crosses directly in front of the daytime sun .

Thirty-one million people living in the path stretching from Texas to Maine to will be able to see the **total eclipse** . This happens when the moon completely covers up the sun. Those outside the path of totality will see a partial eclipse. The time when the moon blocks a small portion to almost all of the sun is considered a **partial eclipse**.

NASA estimates that 99% of people living in the U.S. will be able to see a partial or total eclipse next month.

During totality, nocturnal wildlife sometimes wakes up thinking it's nighttime. Non-nocturnal wildlife might head to sleep.

## When?

The Solar Eclipse visits North America on **April 8, 2024**. The duration of totality will be up to 4 minutes and 27 seconds.

The last solar eclipse occurred on August 21, 2017 and its totality lasted for 2 minutes and 40 seconds. Twenty million people from Oregon to South Carolina saw its totality.

The next total solar eclipse visible in the United States will be on August 23, 2044. That's twenty years from now!

The longest duration of totality during the 2024 eclipse will last up to 4 minutes and 26 seconds over central Texas.

## Who?

People living in these 13 states will be able to see the total eclipse:

- Texas
- Oklahoma
- Arkansas
- Missouri
- Kentucky
- Illinois
- Indiana
- Ohio
- Pennsylvania
- New York
- Vermont
- New Hampshire
- Maine

Planets and stars can be seen during the daytime with the naked eye during a total solar eclipse.

## Why?

***Wearing proper eclipse viewing glasses is very important.***



Looking directly at the Sun is unsafe except during the brief total phase of totality when the Moon entirely blocks the Sun's bright light.

Total solar eclipses recur in the same place roughly once every 360 years.