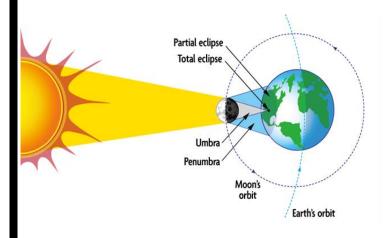


Great North American Eclipse April 8th 2024

What is an Eclipse? A solar eclipse happens when the Moon passes in front of the Sun and casts a shadow on to the Earth.



Frederick County will be in the penumbra, that is why we will see a partial eclipse.

How to Safely Observe an Eclipse

Frederick County will observe a partial eclipse, which means there



will be **no** time that will be safe to view the Sun without protective solar viewing glasses, called "Eclipse Glasses."

- Eclipse glasses are not like regular sunglasses, no sunglasses, no matter how dark, are safe for viewing the Sun.
- If you purchase eclipse glasses make sure they have ISO 12312-2 international standard certification.
- Children should always be closely monitored during eclipse viewing.
- There are ways to indirectly observe the eclipse • safely with pinhole viewers and projectors.
- Never look through binoculars, camera lens, or telescope without specialized solar filters when observing the eclipse.

Viewing Details for Frederick County Maryland

Begin time: 2:04 PM (Moon First Contact)

Maximum Coverage: 3:20 PM Sun is at its most hidden at 91 % coverage.

End time: 4:32 PM Edge of Moon leaves the edge of Sun.



This is what the Sun will look like at its greatest coverage (91%). During this time, animals and plants will react to the fallen levels of light.

Want to Learn More?

NASA Eclipse Page background information, eclipse animations, eclipse maps, and citizen science



Frederick, MD Eclipse Statistics start and end times, animations







AAS Eye Safety and Optical Projection

NASA Space Place: What is a Solar Eclipse video



