

Solar Eclipse

Monday, April 8, 2024

[Staff Information Link](#)

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Solar Eclipse Information:

Best US Cities to See the 2024 Total Eclipse

April 8th, 2024



Monday, April 8, 2024-

Solar Eclipse Information



Local Type:	<u>Partial Solar Eclipse</u> in Highland, <u>Illinois</u>
Eclipse Begins:	<u>12:43 PM</u>
Maximum Eclipse:	2:01 PM
Ends:	3:18 PM
Duration:	2 hours, 34 minutes

WHAT WILL ILLINOIS SEE?

A map of Illinois showing the path of the total solar eclipse on August 21, 2017. The map is dark blue with white outlines of the state and city locations. A solid yellow line represents the center line of the total eclipse, flanked by two dashed white lines representing the northern and southern limits of the total eclipse. Cities marked with black circles and labeled include Rockford, Chicago, East Moline, Peoria, Quincy, Springfield, Champaign, Mt Vernon, Mt Carmel, Carbondale, and Metropolis. The path enters the state near Quincy, passes through Springfield and Champaign, and exits near Metropolis.

Map of Illinois showing the path of the total solar eclipse on April 8, 2024. The map includes major cities like Chicago, Springfield, and St. Louis. The eclipse path is marked with a red line, and the duration of totality is indicated by yellow and orange bands along the path. The map also shows the northern and southern limits of the total solar eclipse.



The logo for the Great American Eclipse, featuring a stylized sun with rays and the text "Great American Eclipse" in a blue circle.

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Map © 2023 Michael Zeiler, GreatAmericanEclipse.com
Eclipse calculations by Xavier Jubier, xjubier.free.fr
Eclipse predictions by Fred Espenak, eclipsewise.com

April 8, 2024-HMS Solar Eclipse Schedule

Hours 1-7 Regular Classes	7:35-1:35 pm
-Eclipse Intercom Safety Announcement	1:35-1:45 pm
-Release for Eclipse Viewing Outdoors	1:45-2:10 pm
-Students return to 8th Hour	2:15-2:35 pm

Total Solar Eclipse Safety (NASA)

How to Safely Watch a Total Solar Eclipse

Total Solar Eclipse FAQ

SAFETY TIPS

- Do not look at the un-eclipsed or partially eclipsed sun through an unfiltered camera, telescope, binoculars, or other optical device.
- Do not look at the sun through a camera, a telescope, binoculars, or any other optical device while using your eclipse glasses or hand-held solar viewer — the concentrated solar rays will damage the filter and enter your eye(s), causing serious injury.
- Outside the path of totality, you must always use a safe solar filter to view the sun directly.

- Always inspect your solar filter before use; if scratched or damaged, discard it. Read and follow any instructions printed on or packaged with the filter.
- Always supervise children using solar filters.
 - Stand still and cover your eyes with your eclipse glasses or solar viewer before looking up at the bright sun. After looking at the sun, turn away and remove your filter — do not remove it while looking at the sun.
- If you normally wear eyeglasses, keep them on. Put your eclipse glasses on over them, or hold your handheld viewer in front of them.

What you will see!

The exception #4:- Highland is not in the path of Totality so it is not safe to remove your glasses at any time while viewing the eclipse.

You will see 99.3% of the eclipse.

ALWAYS keep safety glasses on when viewing the sun!

EYE SAFETY DURING AN ECLIPSE



It's **NEVER** safe to look directly at the sun, except when the sun is completely blocked during the period of a total eclipse known as **TOTALITY**.



1

PARTIAL ECLIPSE • GLASSES ON

The eclipse begins when the sun's disk is partially blocked by the moon. This partial eclipse phase can last over an hour.



2

DIAMOND RING • GLASSES ON

Shortly before totality, the crescent sun converges into a single brilliant "diamond" of sunlight as the last bit of the sun's bright disk shines along the edge of the moon, while the first glimpses of the faint corona create a "ring" around the moon.



3

BAILY'S BEADS • GLASSES ON

In the last little moment before totality, you may see the "diamond ring" break up into "beads" created as the sun's light shines through the low-lying valleys along the edge of the moon. These are called Baily's Beads.



4

TOTALITY • GLASSES ON

Keep glasses on during totality. It is not safe to remove them to view the eclipse.



5

FINAL STAGES • GLASSES ON

A crescent will begin to grow on the opposite side of the sun from where the diamond ring appeared at the beginning. This crescent is the lower atmosphere of the sun, beginning to peek out from behind the moon and it is your signal to stop looking directly at the eclipse. *Make sure you have safety glasses back on—or are otherwise watching the eclipse through a safe, indirect method—before the first flash of sunlight appears around the edges of the moon.*

Additional Resources

[Eclipse America 2024](#) (American Astronomical Association)

[2024 Total Solar Eclipse](#) (NASA)

Live Stream of Solar Eclipse from NASA

[2024 Total Solar Eclipse Broadcast](#)

Solar Eclipse Viewing Location

Students report to Advisory Teacher

