



2024 Total Solar Eclipse

What

An astounding celestial spectacle! A total solar eclipse occurs when a portion of the Earth is engulfed in a shadow cast by the Moon which fully blocks sunlight. Tens of thousands of people will travel to our area to see this eclipse.

When

Monday, April 8th, 2024 between 1 PM and 5 PM. The most impressive/important part happens between 3:15 and 3:30pm across New York State.

Where

New York State will be one of 11 states in the contiguous US which falls in the path of totality. Outside of the direct path (Fredonia, Buffalo, Rochester, Syracuse, the Adirondacks), the rest of New York will experience 88.5 - 99.9% totality.

Impact On	
The Wonderful Parts	<ul style="list-style-type: none"> ● Science - Witnesses of this eclipse will go home having a new experience that could spark a passion for science, STEM, and astronomy; potentially inspiring the next generation of scientists. ● Tourism - Past total solar eclipses in other cities have drawn hundreds of thousands, if not millions, of people. We expect the same turnout for New York State during the 2024 eclipse. ● The Economy - The eclipse has potential to bring hundreds of millions of dollars of revenue to the area through eclipse-driven tourism & programming ● Culture - The eclipse will touch every part of our lives from music, art, TV, movies, current events, news, podcasts, and more! ● Community Relations - The eclipse is a great opportunity for everyone to learn more about the Sun, Moon, Earth, and our shared skies. ALL of new york state will experience this eclipse
The Challenging Parts	<ul style="list-style-type: none"> ● Traffic - Traffic is exceptionally bad after totality (observed during 2017 eclipse). We expect heavy traffic throughout the state, especially heading west and south from the centerline of the eclipse path. ● Congestion - Increase in population in unprepared areas could lead to lack of food and gas, and could potentially lead to emergencies. ● Weather - April weather in New York State is a wildcard. It can be 32°F and snowy or 70°F and sunny. The eclipse will happen no matter what, but will not be visible (the awe-inspiring part) if the sun is not at least partially visible through clouds or rain. ● Safety - You need eclipse glasses to observe most of the eclipse. ● Busing - Nobody wants kids stuck on buses during or after the eclipse



27 Counties Will Experience Totality		
<ul style="list-style-type: none"> ● Chautauqua ● Cattaraugus ● Allegany ● Erie ● Niagara ● Orleans ● Genesee ● Wyoming ● Livingston 	<ul style="list-style-type: none"> ● Ontario ● Monroe ● Wayne ● Yates ● Seneca ● Cayuga ● Onondaga ● Oswego ● Oneida 	<ul style="list-style-type: none"> ● Lewis ● Jefferson ● Herkimer ● Hamilton ● Jefferson ● St. Lawrence ● Franklin ● Clinton ● Essex

Fredonia	Buffalo	Rochester	Syracuse
Partial Begins: 2:03 PM Totality Start: 3:17 PM Totality End: 3:21 PM Partial Ends: 4:31 PM Totality Duration: 3 min 41 sec	Partial Begins: 2:05 PM Totality Start: 3:18 PM Totality End: 3:22 PM Partial Ends: 4:32 PM Totality Duration: 3 min 46 sec	Partial Begins: 2:07 PM Totality Start: 3:20 PM Totality End: 3:23 PM Partial Ends: 4:33 PM Totality Duration: 3 min 39 sec	Partial Begins: 2:09 PM Totality Start: 3:23 PM Totality End: 3:24 PM Partial Ends: 4:34 PM Totality Duration: 1 min 27 sec

Watertown	Old Forge	Saranac Lake	Plattsburgh
Partial Begins: 2:10 PM Totality Start: 3:22 PM Totality End: 3:26 PM Partial Ends: 4:35 PM Totality Duration: 3 min 39 sec	Partial Begins: 2:11 PM Totality Start: 3:24 PM Totality End: 3:26 PM Partial Ends: 4:35 PM Totality Duration: 2 min 49 sec	Partial Begins: 2:12 PM Totality Start: 3:25 PM Totality End: 3:28 PM Partial Ends: 4:36 PM Totality Duration: 3 min 30 sec	Partial Begins: 2:14 PM Totality Start: 3:25 PM Totality End: 3:27 PM Partial Ends: 4:37 PM Totality Duration: 3 min 34 sec

Utica	Albany	NYC	Brookhaven
Partial Begins: 2:10 PM Max Coverage: 3:24 PM Partial Ends: 4:35 PM Partial Eclipse Visible: 99%	Partial Begins: 2:12 PM Max Coverage: 3:26 PM Partial Ends: 4:37 PM Partial Eclipse Visible: 96%	Partial Begins: 2:10 PM Max Coverage: 3:35 PM Partial Ends: 4:36 PM Partial Eclipse Visible: 89%	Partial Begins: 2:12 PM Max Coverage: 3:27 PM Partial Ends: 4:37 PM Partial Eclipse Visible: 88%

More information can be found at <https://rochestereclipse2024.org/>



Fun Facts	<ul style="list-style-type: none">● The last total solar eclipse in New York was in 1925.● The next total solar eclipse in the United States will be 2045.● The next total solar eclipses in New York will be in 2079 and 2144.● The Haudenosaunee Confederacy is believed to have been ratified during a total, or near total, eclipse.
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How School Districts Can Support the 2024 Eclipse?

We'd like to get all New York state school children home early (or keep them home entirely) on the day of the eclipse (Monday, April 8, 2024). Traffic between 3:15 and 3:45 has the potential to be an absolute nightmare, and kids who have been learning and hearing about the eclipse could be stuck on school buses for hours without educational adult supervision.

To help our young learners make the most of the eclipse, we'd like to get them to a safe viewing location early so they can be involved in the activities and programming around the eclipse, as well as witness the once-in-a-lifetime moment for themselves.

What is RMSC planning?

We are trying to decentralize eclipse learning and celebrations so that every person in every New York community can anticipate, understand, and safely enjoy an amazing natural phenomenon from where they are - in their own communities. We are also trying to spread the word early, and often, of the educational, economic, and community benefits of celebrating science together.

Places to Buy Eclipse Glasses/Solar Viewers

- <https://www.rainbowsymphony.com/>
- <https://thousandoaksoptical.com/products/eclipse/>
- <https://www.eclipseglasses.com/>

Activity Resources:

- <https://www.nisenet.org/solareclipse>
- <https://solarsystem.nasa.gov/eclipses/2024/apr-8-total/overview/>
- <https://eclipse.aas.org/>
- <https://astrosociety.org/education-outreach/amateur-astronomers/eclipse-ambassadors/program.html>
- https://eclipse2024.org/eclipse_cities/statemap.html

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