2024 Total Solar Eclipse Planning



Rochester Eclipse Task Force 2024 Transportation/Government Sector

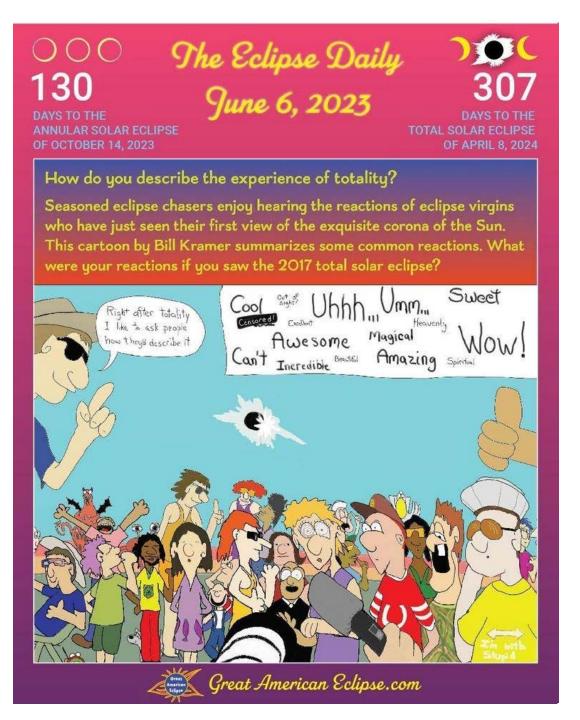
Health Emergency Preparedness Coalition June 15, 2023

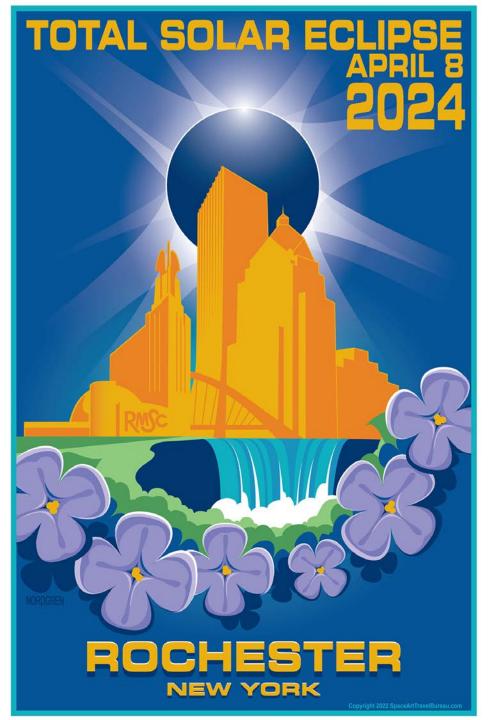
Jim Stack & Lori Maher Genesee Transportation Council, Rochester, NY

Single-biggest mass travel event in the USA!

An Experience People Will Travel to Witness

- 360-degree sunset
- Temperature drops ~ 10 degrees
- Animal and plant behavior changes
- Sharpening of shadows
- Planets and stars visible
- Diamond Ring Effect
- Sense of Wonder and Awe





GTC's Role

We don't own, operate or maintain transportation systems, but our member agencies do. As a planning agency, we hope to inform, convene, connect, share resources, and assist our member agencies and stakeholders. We want to be part of the success stories, not traffic-related horror stories.



Jim Stack Executive Director

Lori Maher Program Manager



Rochester Eclipse Task Force 2024



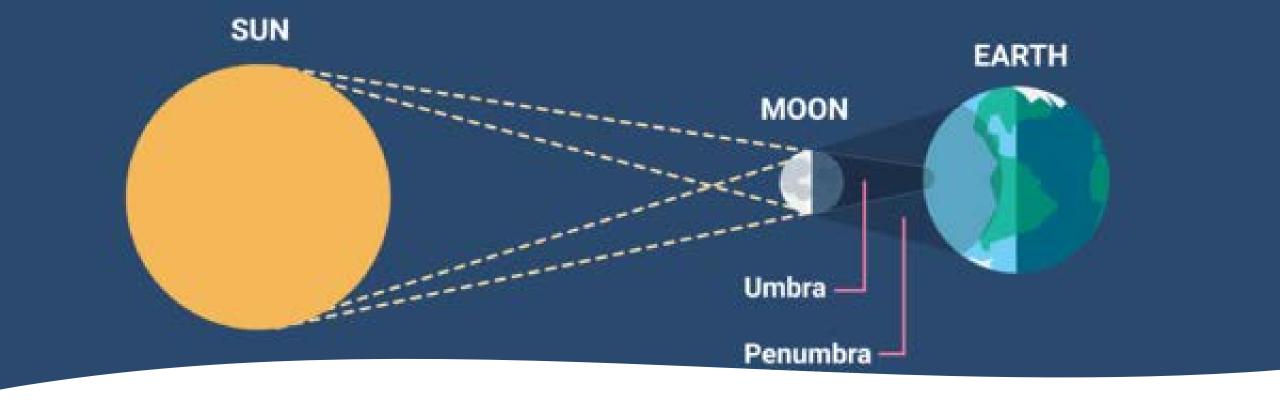




- Tourism:
- Arts & Culture
- Food & Beverage
- Lodging
- Marketing/Promotions
- Local and National Media
- Merchandise
- Etc.

- Public Outreach
- Science
- Education
- Pre-K 12
- Higher Education
- Eye Viewing Safety
- Science Events

- Traffic Management
- Emergency Preparedness
- Transit
- Public Safety
- Travel (rail, air, auto, boat)
- Highway Safety/ Education



Total Solar Eclipse Basics

Total Solar Eclipse to be visible from US on Monday, April 8, 2024.

Moon appears the same size and will be positioned directly in line with the sun, casting a shadow on Earth, creating darkness in the middle of the day.

Monday afternoon April 8, 2024

Note: In Rochester, NY

- Total solar eclipse begins at 2:07 p.m.
- Totality from 3:20 3:23 p.m.
 (3 minutes 38 seconds)
- Total solar eclipse ends at 4:33 p.m.

Less than 300 days to go!!!

129
DAYS TO THE
ANNULLAR SOLAR ECLIPSE

OF OCTOBER 14, 2023

The Eclipse Daily June 7, 2023

DAYS TO THE FOTAL SOLAR ECLIPSE OF APRIL 8, 2024

The Total Solar Eclipse of April 20, 2023

This is our composite photograph of the recent total solar eclipse from Australia. From begin to end, the eclipse lasts about 3 hours. We were rewarded with a fantastic view of an active corona near the maximum of the Sun's 11-year sunspot cycle.





Total Solar Eclipses Visible from the US A Rare & Unique Occurrence (Worth a Road Trip)

24 Jan. 1925

 Last Total Solar Eclipse in Rochester

12 Aug. 2045

Next Total Solar
 Eclipse in continental
 US (CA to FL, 21 years after 2024 Eclipse!)

• TODAY!

R









21 Aug. 2017

 Last Total Solar Eclipse in United States 8 April 2024

 Total Solar Eclipse to be visible in Rochester on April 8, 2024. 26 Oct. 2144

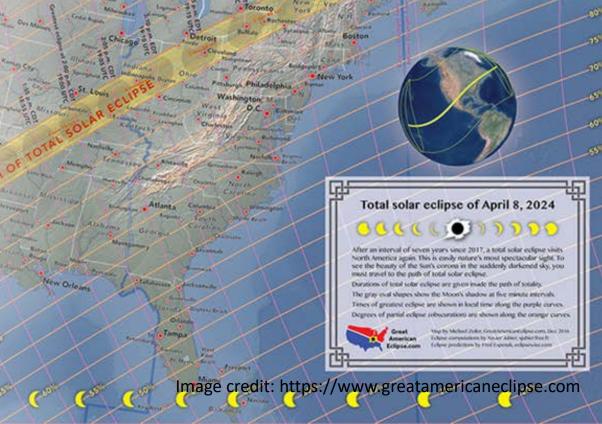
 Next Total Solar Eclipse in Rochester (120 years after 2024 Eclipse!)

Fort Severn Edmonton Vancouver Saskatoon Calgary Regina Seattle Winnipeg Thunder Bay Portland Helena Bismarck Boise Minneapolis Pierre Chicago New York Salt Lake City Philadelphia Washington, D.C. Half of the US Des Moines Cheyenne Omaha . Sacrament Denver Cincinnati population St. Louis Las Vegas lives within Path of totality Los Angeles Santa Fe 250 miles of Memphis Atlanta San Diego Phoenix the Path Dallas Jackson New Orleans Houston Chihuahua Tampa Miami Monterrey Havana Tampico Cancún Mérida Kingston Guadalajai Puebla
 Veracruz Mexico City Belmopan Tuxtla Gutiérrez Acapulco



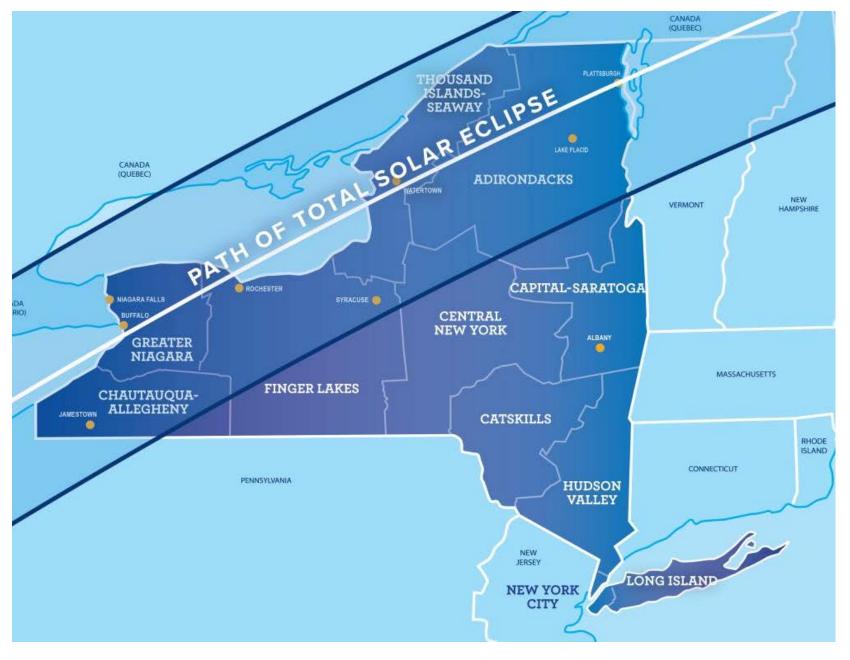
 Will attract people from around the world to the 120-mile Path of Totality.

• 32 million people live directly within the USA section of the path. Additional metropolitan areas such as St Louis, Cincinnati, Detroit, Toronto, and Quebec are very close to the path.





Much of Western and Northern NY is in the Path of Totality.



Travel Reports from August 2017



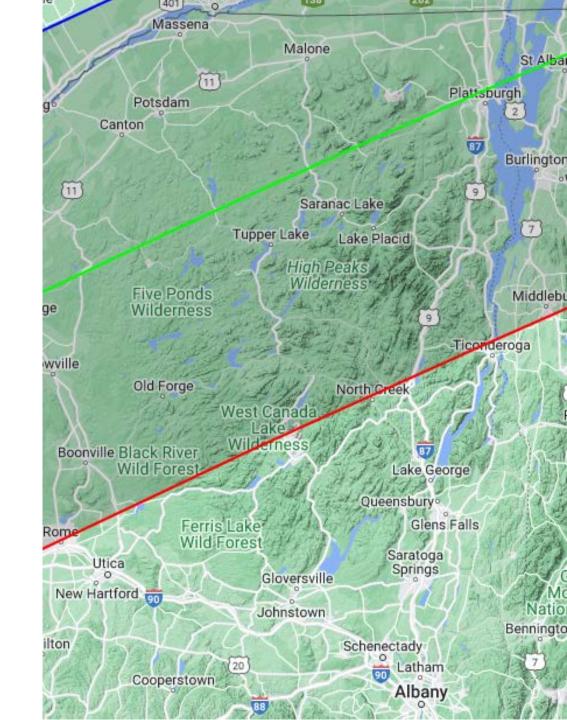
Illinois 2017, Chicago Tribune

- People will arrive over 1-4 days pre-eclipse
- Almost all viewers traveled to the path of totality by motor vehicle
- Majority leave within 2 hours of totality
- Most of these people will do so within the first 15 minutes after totality
- Traffic congestion on **rural interstate routes** lasted for up to **13 hours** after the eclipse
- Rural, non-freeway routes also experienced significant traffic congestion, slow speeds, and long travel times
- For hours after totality, almost every interstate route passing through the path of totality showed red on Google Traffic maps



Traffic Considerations

- The North Country has limited major roads
- Can EMS & Fire be pre-deployed?
- Likely to be increased crashes
- What if air ambulances can't fly?
- Will population centers be overwhelmed?
- Will motorists be stranded?



RMSC

Collecting Event Locations at https://rochestereclipse2024.org/events/



Arrive Early and Stay Late

Partnering with the full Rochester Task Force to share information about tourism, science education and community.

"Come for the sun, stay for the stars!"

#TakeTuesdayToo

But what if it's cloudy?



- The eclipse will still happen
- It will still get dark
- The temperature will still drop
- There is no rain delay

Image: Michael Zeiler GreatAmericanEclipse.com

But what if it's cloudy? Or NOT!



- The eclipse will still happen
- It will still get dark
- The temperature will still drop
- There is no rain delay

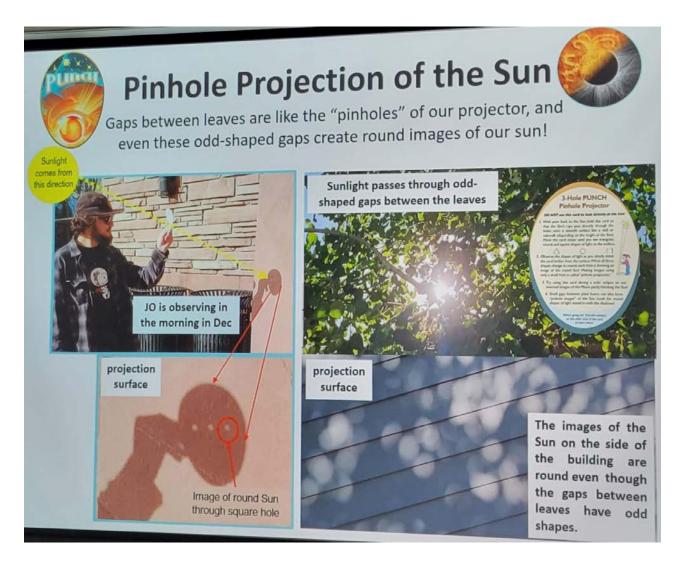
April 8, 2023 Cloud Cover worldview.earthdata.nasa.gov

Safety Considerations

- PR Campaigns to raise awareness
- Eye Safety is critical
 - MUST wear Solar viewing Glasses ("Eclipse glasses")
 - > Sunglasses do NOT work.
 - Never look directly at the sun!



Safety Considerations



- It is safe and to view an eclipse using proper techniques like:
 - > Pinhole viewers
 - > Colanders
 - > Sun spotters
 - > Shadows from Trees
 - > Projecting onto a surface
 - Solar viewing glasses

Mental Health Considerations

- Some people may be overstimulated
- Raise awareness: No one should be surprised
- Are there options for people with sensory sensitivities?
- Mental health crisis intervention



Inclusiveness

- Consider devices and apps for visually impaired
- Videos should have an ASL inset
- Be aware of cultural sensitivities































Emergency Management

- ✓ NYS Division of Homeland Security and Emergency Services (DHSES) -Office of Emergency Management
- ✓ County Emergency Management Offices
- ✓ Local Municipalities Emergency Management Offices
- ✓ Department of Transportation
- ✓ County Sheriffs
- ✓ State and Local Police Departments
- ✓ County Fire Coordinators
 - ✓ Fire Departments (paid)
 - ✓ Fire Districts (volunteer)
- ✓ Ambulance Services
 - ✓ Private (contracted)
 - √ Volunteer
- ✓ Incident Command System
- ✓ But how do we manage a Planned Event at multiple venues of different sizes in multiple counties?

New York State Mass Gathering Planning Guide

June 2018









CHECKLISTS ARE HANDY!

- PRE-EVENT PLANNING
 - ✓ Identify & Coordinate with Key Partners
 - ✓ Risk Assessment
 - ✓ Develop plan
 - ✓ Exercise plan
 - ✓ Implement Critical Infrastructure Protection & Other Mitigation Measures
 - ✓ Identify Personnel and Equipment
 - ✓ Trainings & Exercises and Protocol Reviews
 - ✓ Communication & Info. Management Protocols
 - ✓ Permits & Notifications
 - ✓ Mass Casualty Plan Review

New York State Mass Gathering Planning Guide

June 2018









CHECKLISTS ARE HANDY!

- OPERATIONAL CONSIDERATIONS
 - ✓ Maintain Situational Awareness
 - ✓ Maintain Incident Action Plans
 - ✓ Maintain Lines of Communications
 - ✓ Ingress/Egress/Parking
 - ✓ Screening & Security
 - ✓ Law Enforcement Operations
 - ✓ Fire Rescue/Hazmat Operations
 - ✓ Emergency Medical Services (EMS) Operations
 - ✓ Facility Lockdowns & Evacuations
 - ✓ Emergency Alerting/Public Information
 - ✓ Crowd Control
 - ✓ Monitor Cyber/Technological Threats

New York State Mass Gathering Planning Guide

June 2018







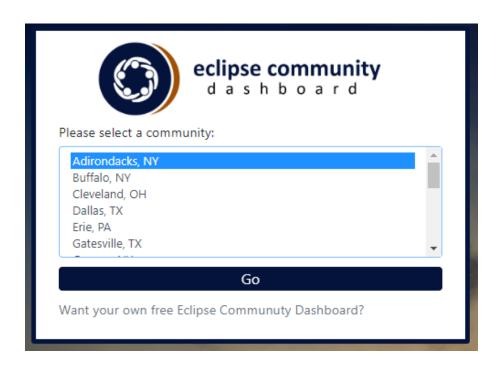


CHECKLISTS ARE HANDY!

- POST-EVENT ACTIVITIES
 - ✓ Debriefs
 - ✓ Demobilization
 - ✓ Review of Medical Incident Response Procedures
 - ✓ After-Action Review and Plan Development

Resources

- 511 NY
 - > Real-time traffic conditions
 - > Traffic camera feeds
- Eclipse Community Dashboard (https://eclipseweb.org)
 - ➤ Non-public platform for collaboration
 - > The Adirondacks is already established
 - > Cross sector connections
 - > Shared resources
- Solar Viewing Glasses
 - > www.rainbowsymphony.com
 - > www.thousandoaksoptical.com
 - > www.eclipseglasses.com



Resources

- Maps and Data, Illustrations, Videos, Simulations, etc.
- GreatAmericanEclipse.com
- NASA https://solarsystem.nasa.gov/eclipses/
- YouTube @RMSCVideo
- Lessons learned in 2017
- National Center for Excellence in Operations webinars
- Eclipse2024resources.com
- Dr. Kate Russo Community Planning White Paper and author
- TR News article (Transportation Research Board's magazine)
- References from across the country
- State of Ohio https://ema.ohio.gov/media-publications/ohio-total-solar-eclipse
- State of New Hampshire https://www.visitnh.gov/
- GTC
- www.publicinput.com/GTCEclipse

Rochester Eclipse Task Force 2024







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Contact Information



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