

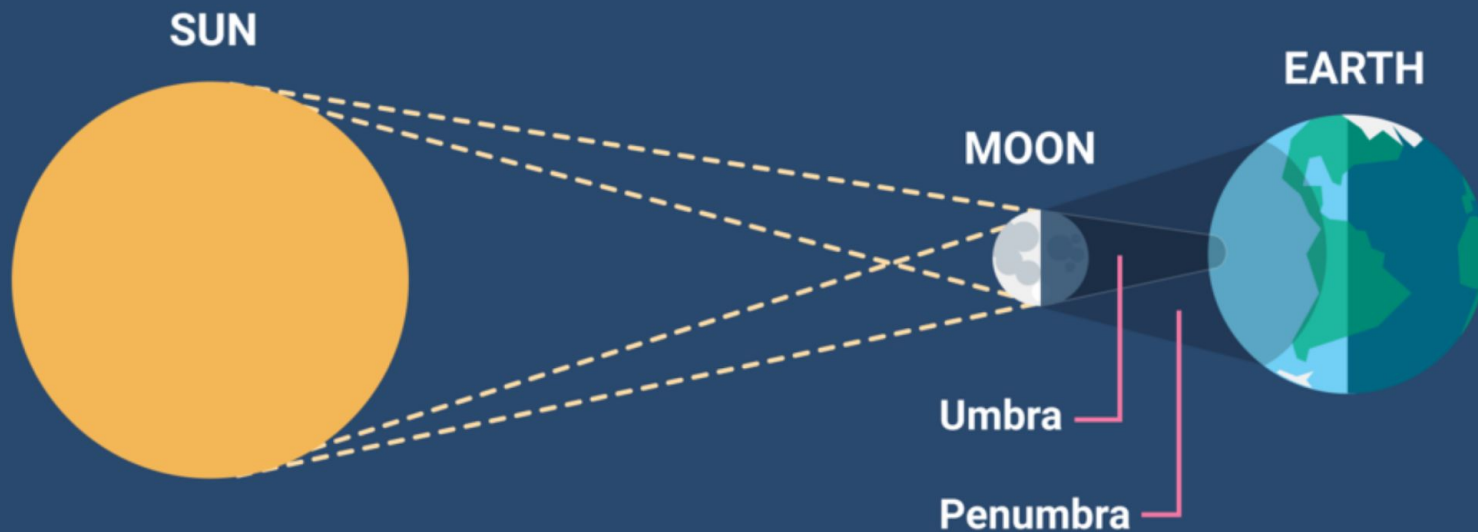


# 2024 TOTAL SOLAR ECLIPSE

Dan Schneiderman - Eclipse Partnership Coordinator



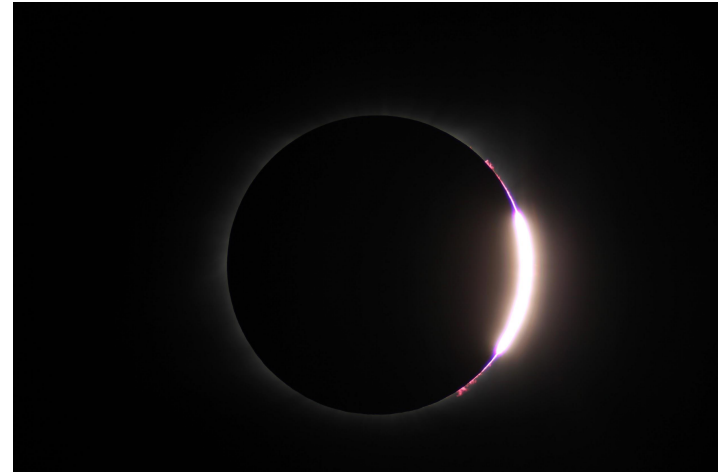
# Eclipse Basics





# What Will You Experience During Eclipse

- Temperature drops ~10 degrees Fahrenheit
- Animal and plant behavior acts if it was nightfall
- Sharpening of shadows
- Planets and stars visible
- Diamond Ring Effect
- 360 degree sunset
- Baily's Beads

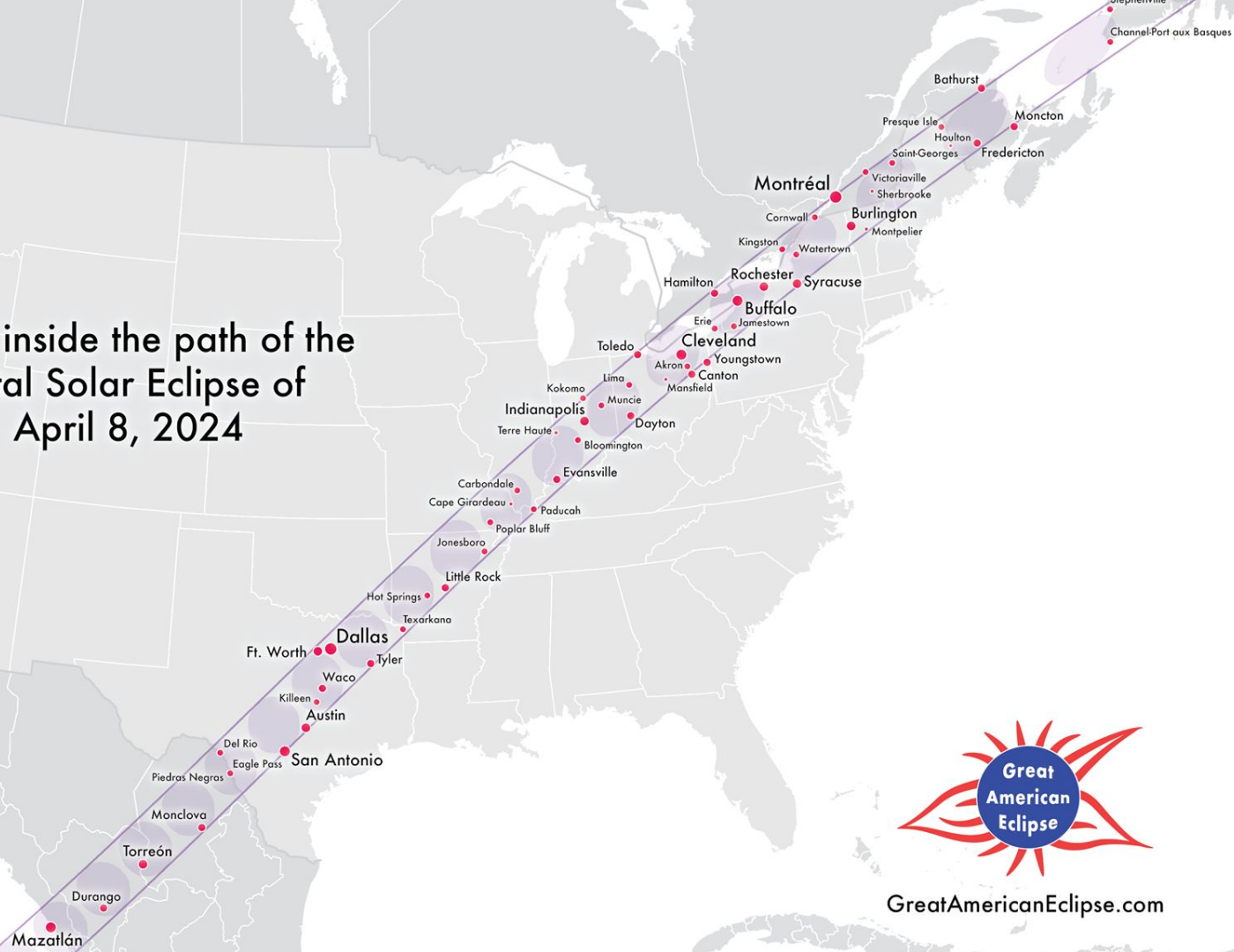


## What Happens if it is Cloudy?

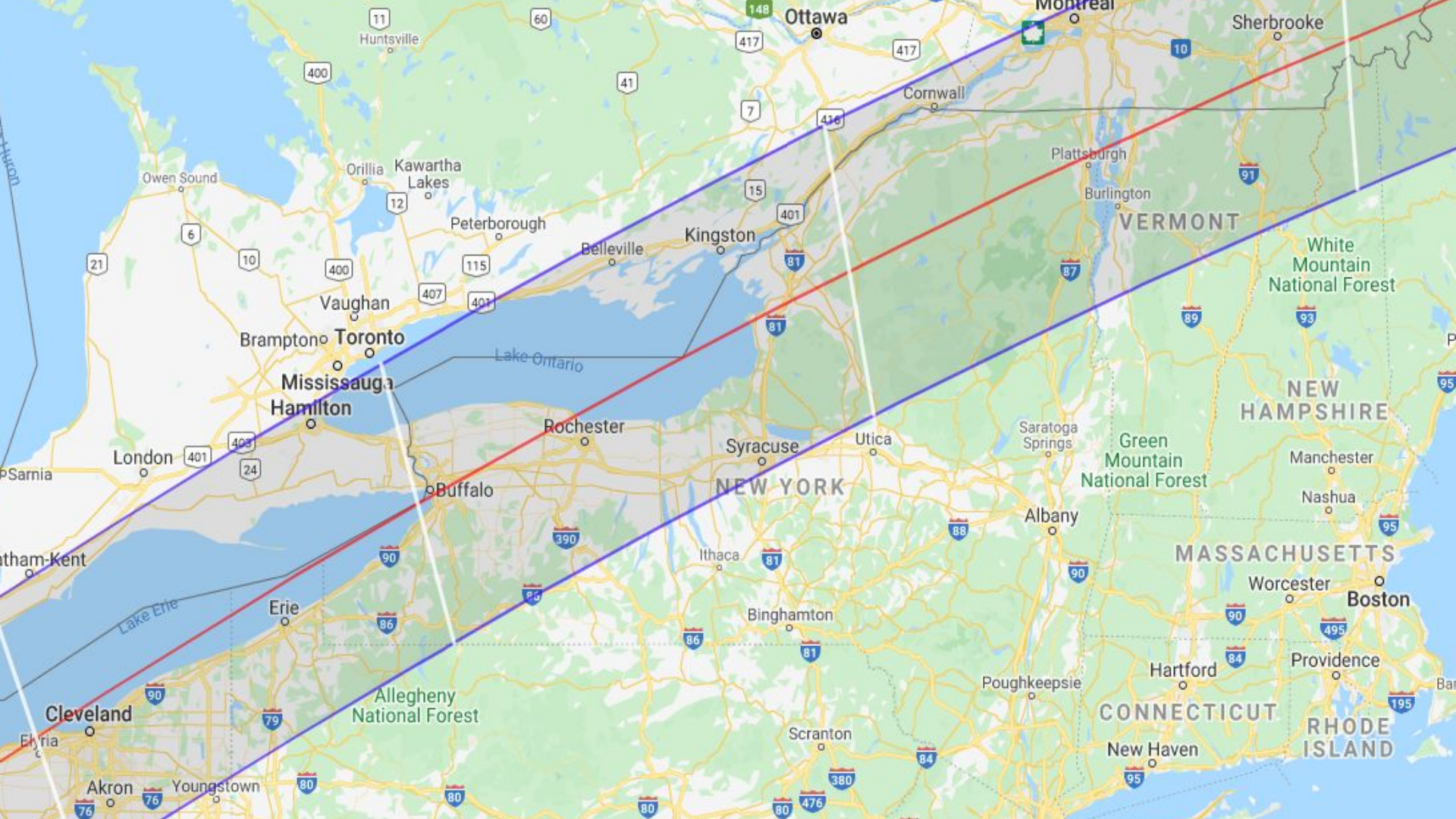
**What Happens if it is Cloudy?**

**It will still get dark!**

# Cities inside the path of the Total Solar Eclipse of April 8, 2024

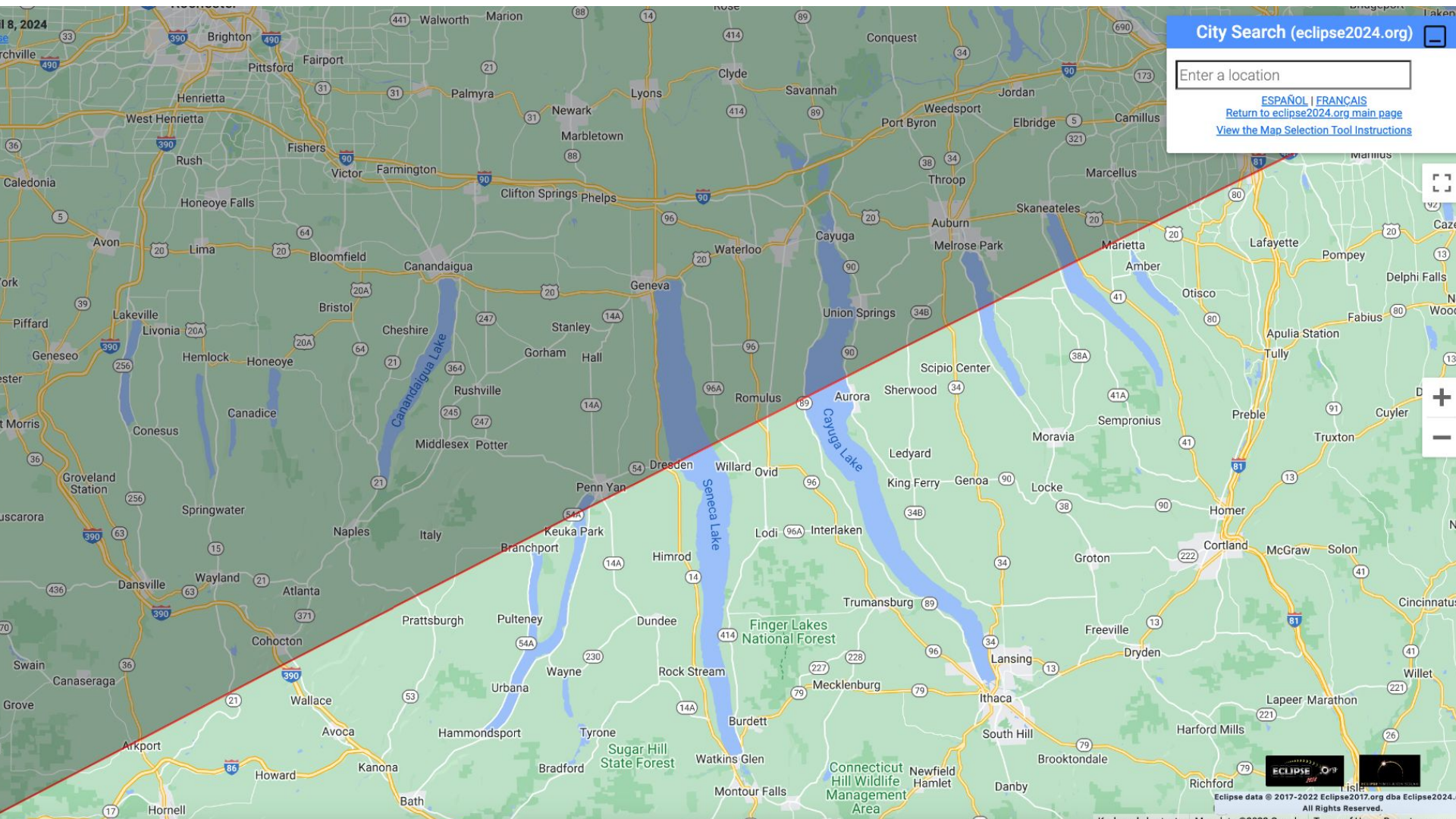


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Enter a location

[ESPAÑOL | FRANÇAIS](#)  
[Return to eclipse2024.org main page](#)  
[View the Map Selection Tool Instructions](#)



# April 8, 2024 - Eclipse of the Sun Right Here!

**Begins:** 2:07pm\*

**Totality:** 3:22:06 PM\* (39-44 seconds)

**Ends:** 4:34pm\*

\* 14527 Zipcode

## April 8, 2024 - Total Eclipse of the Sun in Rochester!

**Begins:** 2:07pm\*

**Totality:** 3:20-3:23pm\* (3 minutes 40 seconds)

**Ends:** 4:33pm\*

\*Zip 14607

**99.9% Coverage of the  
Sun is NOT Totality**



The Moon covers 95% of the Sun's diameter and about 94% of its area. Credit: Rick Fienberg

# Why is this important now?

## Learning from August, 2017

- Huge tourism opportunity
- Huge public infrastructure and planning effort
- In 2017, there were fewer big cities in the path.
- It had been 38 years since last total solar eclipse in US.

## Carrying forward to 2024

- Many big cities in path.
- Many opportunities for In- and out-of-state visitors to travel across NYS.
- These folks will need hotels, gas, food, bathrooms, and Wifi



## **Last Total Solar Eclipse in Rochester**

January 24, 1925

## **Last Total Solar Eclipse in United States**

August 21, 2017

69.72% coverage of Sun

## **Next Total Solar Eclipse in US**

August 12, 2045

(21 years from 2024 Eclipse)

50.34% of the Sun Covered

## **Next Total Solar Eclipse in NYS**

May 1, 2079

(55 years from 2024 Eclipse)

**EXPECTING CONSERVATIVELY  
375K-500K VISITORS TO GREATER  
ROCHESTER REGION**

**4 MILLION NYS RESIDENTS IN  
PATH**

# Crowds and Traffic

## Expect huge crowds coming from the east and south will be driving

- People from NYC, Washington DC, Binghamton, etc.
- **390, 86, and 90** will see heavy traffic
- People will arrive over 1-4 days pre-eclipse
- If 2017 is a guide, most people will want to depart in the 2 hours post-totality,
- **Majority leave right after the first 15 minutes post totality**
- **THIS** is the biggest issue!
- Traffic jams should be expected on all roads leading out of the region – particularly East and South – **Can't go NORTH!**



Wyoming 2017, Denver Post

# Safety

## Eye Wear

- You MUST wear Eclipse Glasses to directly view the eclipse.
- Sun glasses do NOT work.
- Never look directly at the sun!
- There are other methods to observe the eclipse while not looking at the sun (pinhole projectors, shadows)
- ISO 12312-2:2015
- Counterfeit glasses from Amazon were a big issue back in 2017



2017 Total Solar Eclipse, AAS

# Other safety considerations

- Activate Emergency Operations Centers?
- Mass gathering/crowds
  - Distributed sites
  - Multiple sites in each County
  - Sanctioned and unofficial gatherings
- Closed streets and bridges (event related)
- Construction/Lane Closures
- Planned emergency routes for Police, Fire, EMS
- Unsafe driver behavior
  - Distracted driving
  - People stopping in travel lanes
  - Pulling over in non designated areas
- Pre-deployed assets such as Ambulances, HELP vehicles, and Tow Trucks
- Trucks and Oversized loads
- Increased GA airport traffic
- Active Shooters, bomb threat, terrorist activity
- Overloaded cell towers impact on emergency communications
  - Use of COWs (Cell on Wheels)
- Weather/environmental related issues
  - Wind, heat, cold
  - Flooding
  - Mud related issues (cars and/or people stuck)
- **Misinformation will occur!**

# Schools

- April 8th, 2024 is the Monday after what is typically Spring Break
- Working towards getting school canceled that day
  - Superintendent's Day
- Don't want kids to miss experience due to being on bus
- Worried about kids getting stuck after totality

NATION NOW

## What will the solar eclipse mean for drivers? A coast-to-coast traffic nightmare

**Ashley May** USA TODAY

Published 3:45 p.m. ET Aug. 18, 2017 | Updated 3:53 p.m. ET Aug. 18, 2017



### Solar eclipse could be tricky for drivers

The Federal Highway Administration is calling the event one of the largest driver distractions in years. Video provided by Newsy Newslook

# Tips for Run Your Own Eclipse Viewing Event!

- Have Solar Viewing Glasses available
- **Turn off your automatic lights** (building, parking lot, etc)
- Hands on-activities
  - Create your own pinhole viewer
  - Moon phase calendar
  - String art
  - Button Making
- Telescope with solar filter for viewing
- “Expert” to answer questions about the eclipse
- Facilities
- Speakers related to space
- Area dedicated to those photographing the eclipse
- Projectors/TVs to watch livestream of eclipse locations before Rochester
- **Backup plans for multiple weather possibilities**
- Space themed music playlist

**Think about the experience you personally want!**

# Other Possible Events

- Stargazing evenings
- “Dark” meals
- Concerts with space music
- Glasses distribution events
- 1 year out celebrations
- 5K marathons
- Fundraisers
- Eclipse themed wine tasting events
- Art contests
- Info sessions
- Movie nights (movies or tv shows that include eclipses in them)



# Eclipse Swag

- Sun/Moon/Earth themed items
- Food
  - Moon Pies
  - Sunny-D
  - Oreos (recreate eclipse phases)
  - Starburst
  - Milky Way Bars
- Eclipse themed drinks
  - Wine, Beer, Whisky
- Swag
  - Patches
  - Posters
  - Hats
  - Patches
  - Jackets



# Who is Currently Involved

- Rochester Eclipse Taskforce
  - Co-Chairs - RMSC, Genesee Transportation Council, Visit Rochester, and Kids Out and About
- Museums & Galleries
- Wineries, Breweries, Distilleries
- Parks & Rec
- Restaurants
- Universities
- Event Organizers
- Gov Orgs
- Over 250+ active stakeholders - ever growing
- **Everyone under the sun is a stakeholder**

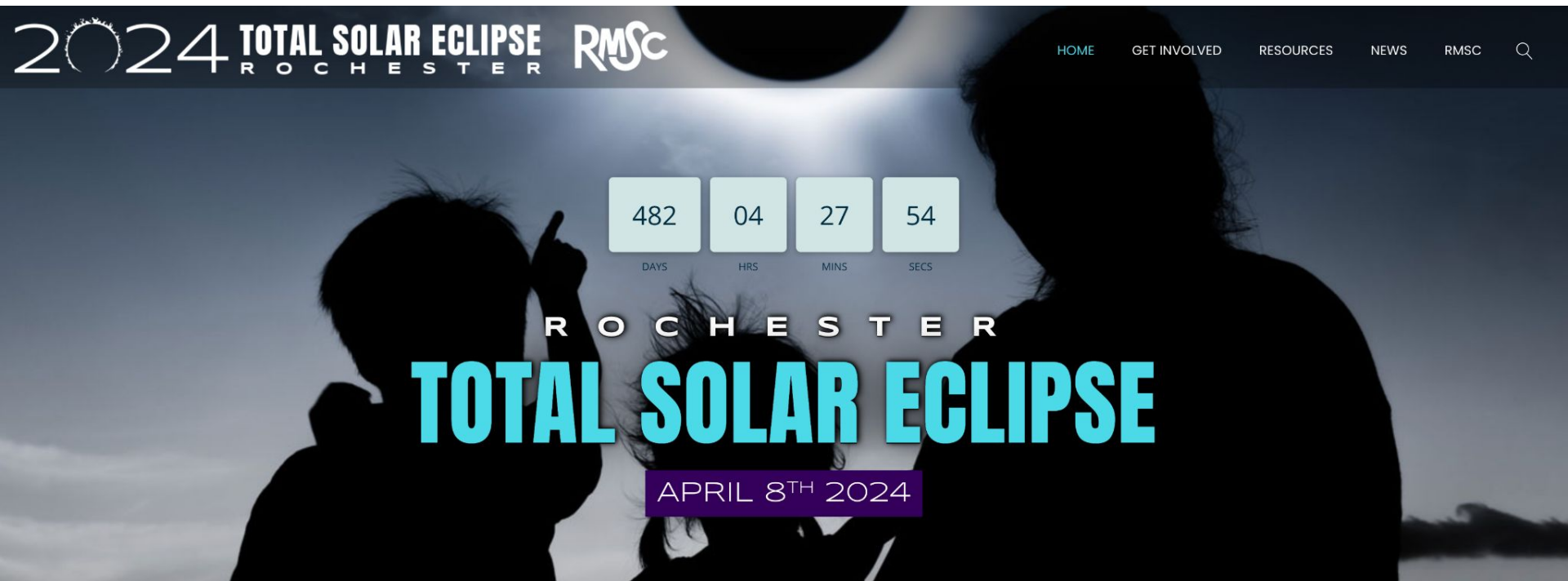


**Everyone Under the Sun  
is a Stakeholder!**

# Rochester's Eclipse Poster

Created by Tyler Nordgren  
Ithaca Resident  
[www.tylernordgren.com](http://www.tylernordgren.com)





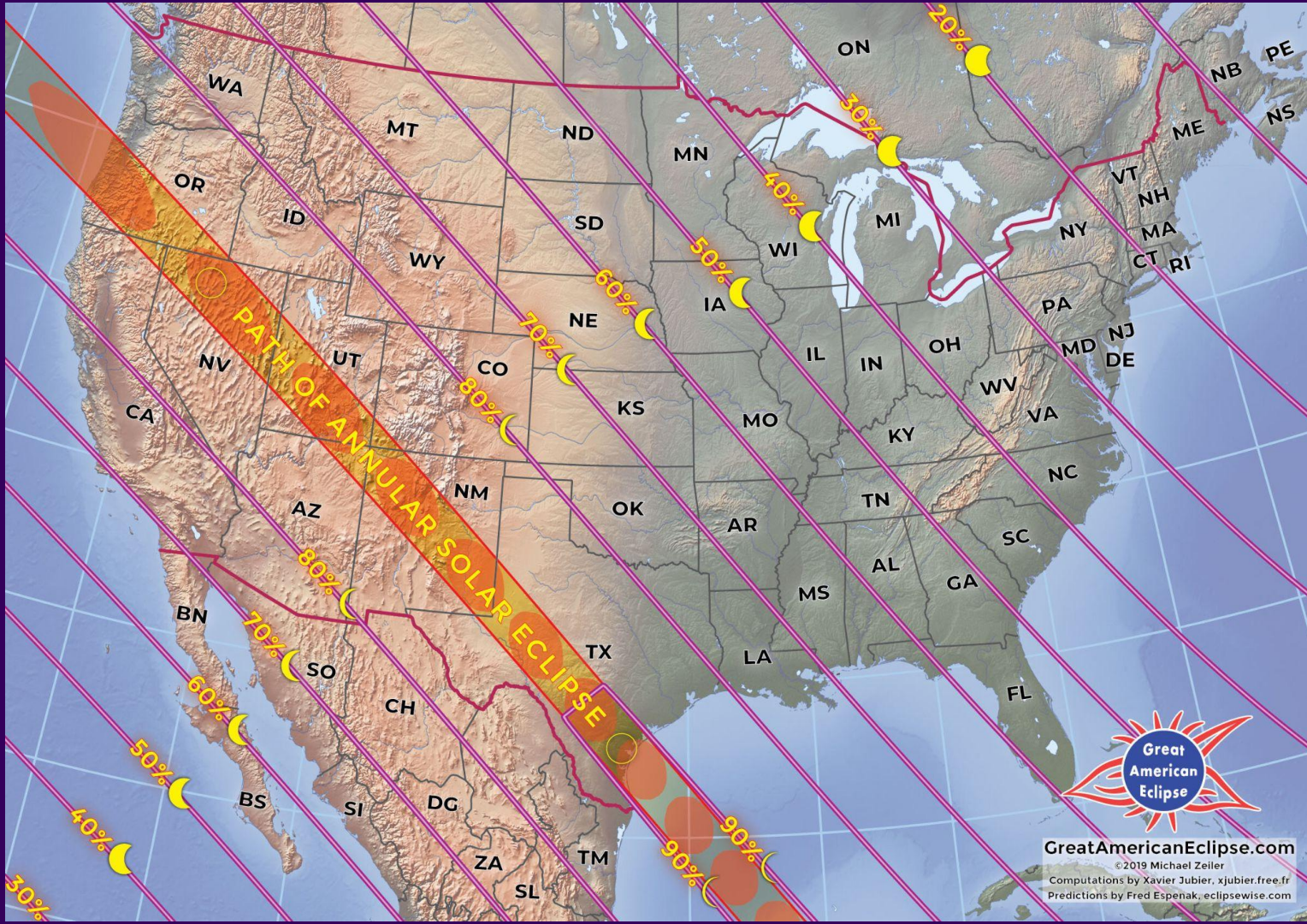
[rochestereclipse2024.org](https://rochestereclipse2024.org)



**WARNING!**  
DO NOT LOOK AT THE SUN  
THROUGH THIS TELESCOPE.  
PERMANENT EYE DAMAGE WILL  
RESULT FROM LOOKING AT THE  
SUN THROUGH ANY TELESCOPE!

**ODYSSEY 8**

**Save the Date**  
**Partial Solar Eclipse**  
**October 14th, 2023**  
**1:15 PM**



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 Computations by Xavier Jubier, xjubier.free.fr  
 Predictions by Fred Espenak, eclipsewise.com

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## Follow us on Social:



Rochester Eclipse 2024



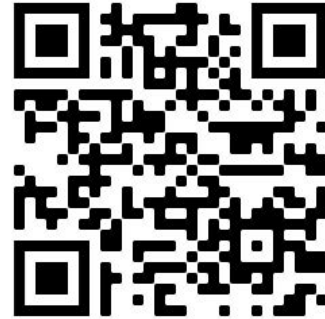
ROCSolarEclipse



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#RocEclipse2024

## Sign up for our Newsletter



# Questions?

Contact Us

**Dan Schneiderman:** [dschneiderman@rmsc.org](mailto:dschneiderman@rmsc.org)