



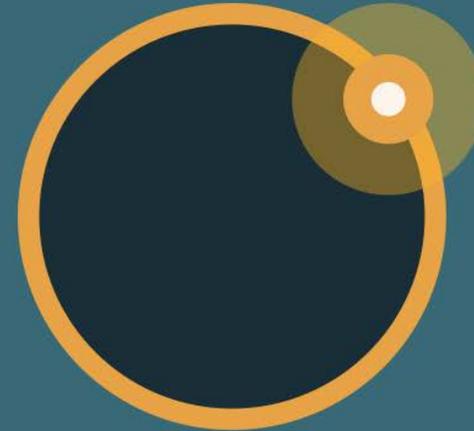
2024 ECLIPSE PLANNING

presented by N. Guttman



Total
Solar Eclipse

Apr 8, 2024
Buffalo



DLAN 6900

Total Solar Eclipses in the US

24 Jan. 1925

- Last Total Solar Eclipse in NYS



8 April 2024

- Total Solar Eclipse to be visible in NYS



26 Oct. 2144

- Next Total Solar Eclipse in NYS



21 Aug. 2017

- Last Total Solar Eclipse in United States

12 Aug. 2045

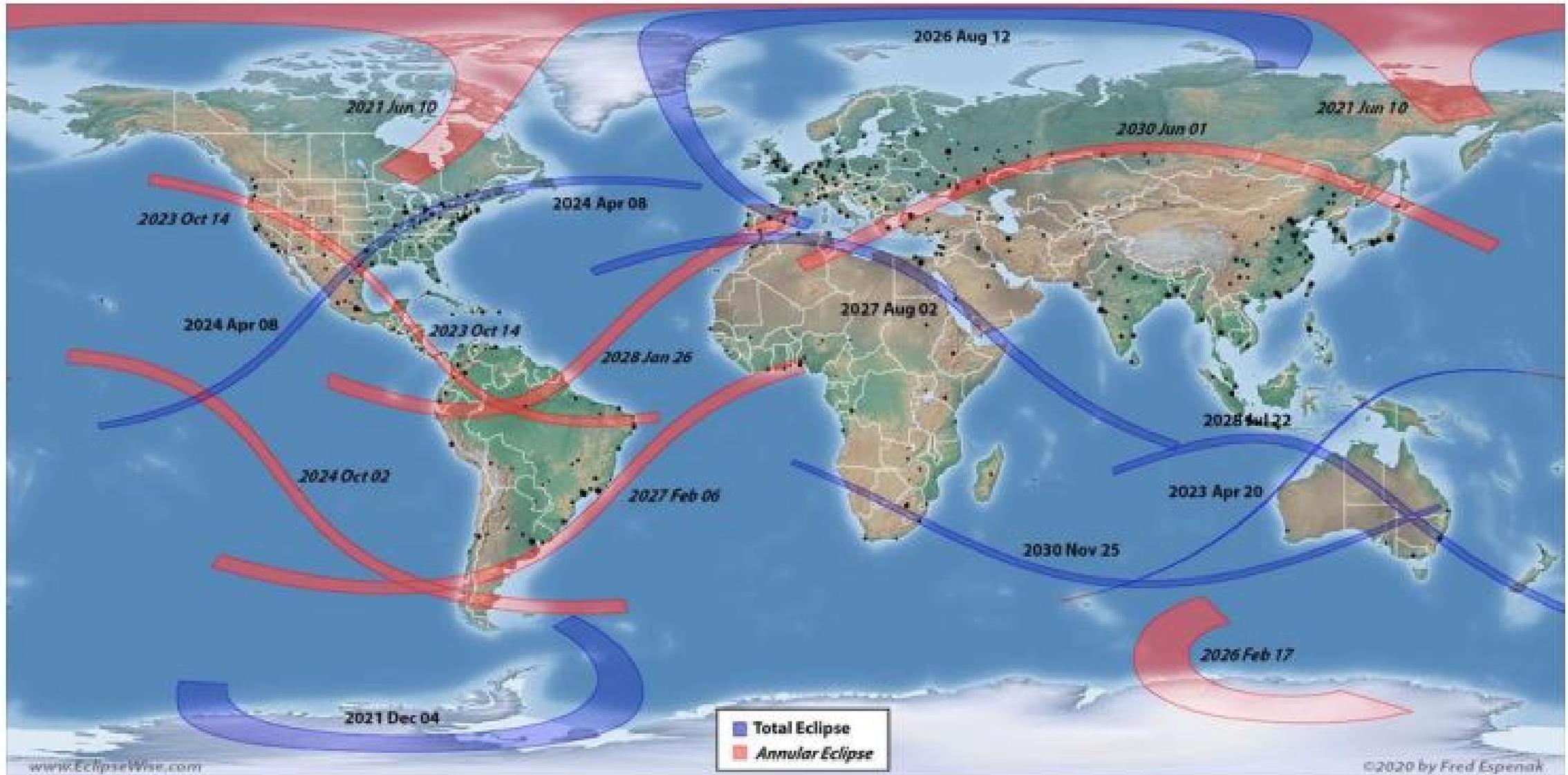
- Next Total Solar Eclipse in US (CA to FL)

Next Total Solar Eclipse in New York

October 26, 2144

(120 years from 2024 Eclipse)

SOLAR ECLIPSES 2021-30



Be prepared for the single-biggest mass travel event in the USA.

- 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.



Total solar eclipse of April 8, 2024

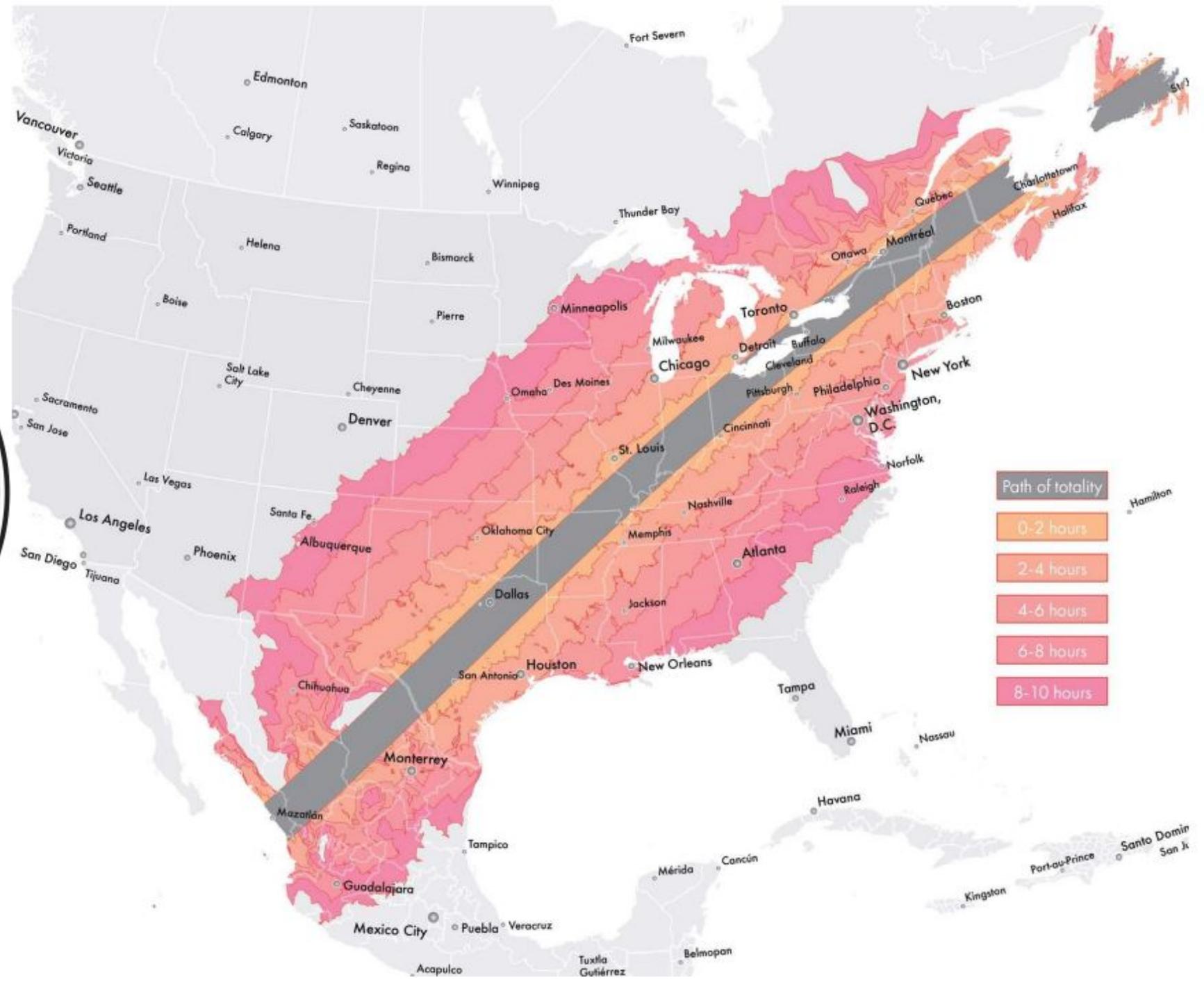
After an interval of seven years since 2017, a total solar eclipse visits North America again. This is easily nature's most spectacular sight. To see the beauty of the Sun's corona in the suddenly darkened sky, you must travel to the path of total solar eclipse.

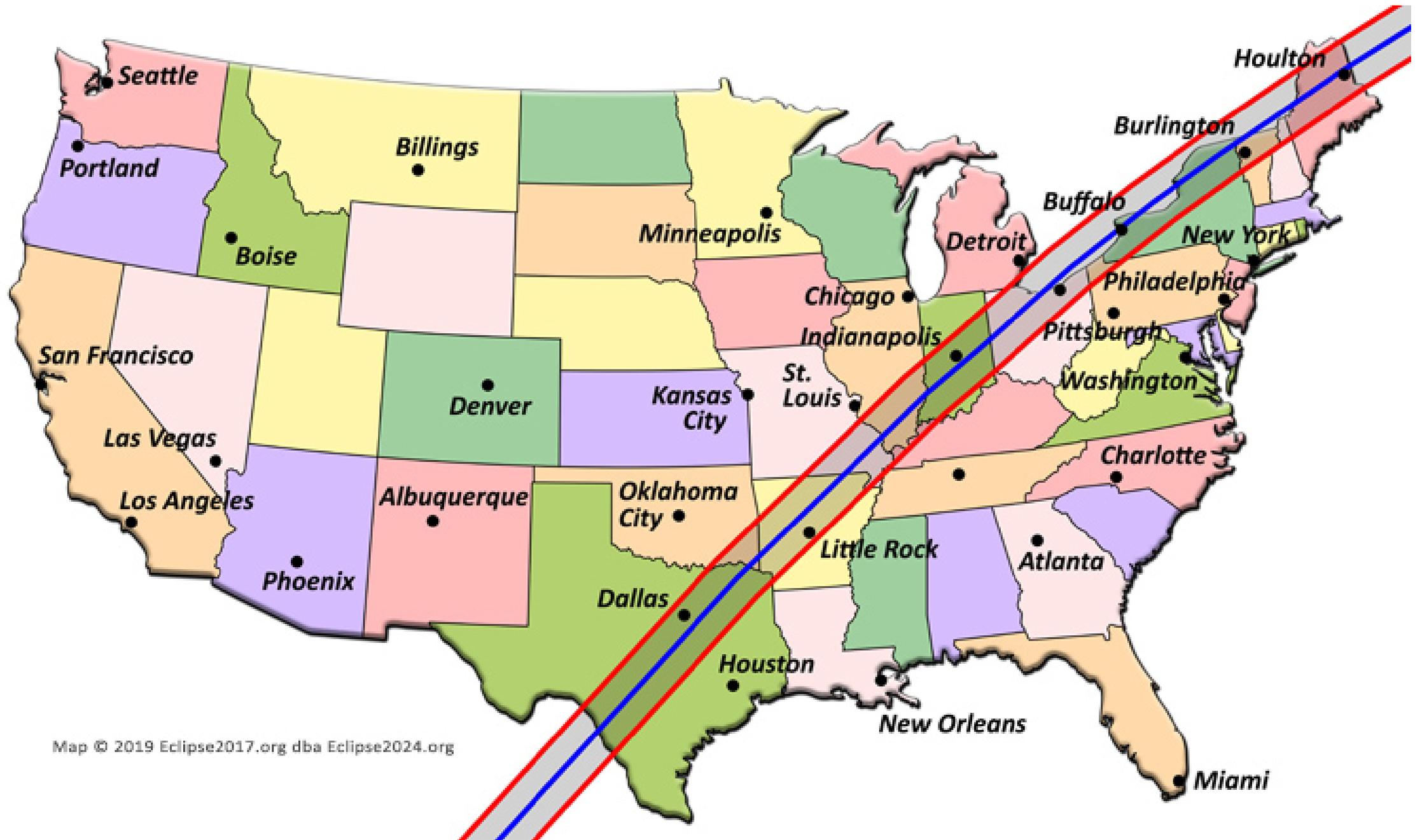
Durations of total solar eclipse are given inside the path of totality. The gray oval shapes show the Moon's shadow at five minute intervals. Times of greatest eclipse are shown in local time along the purple curves. Degrees of partial eclipse (obscuration) are shown along the orange curves.

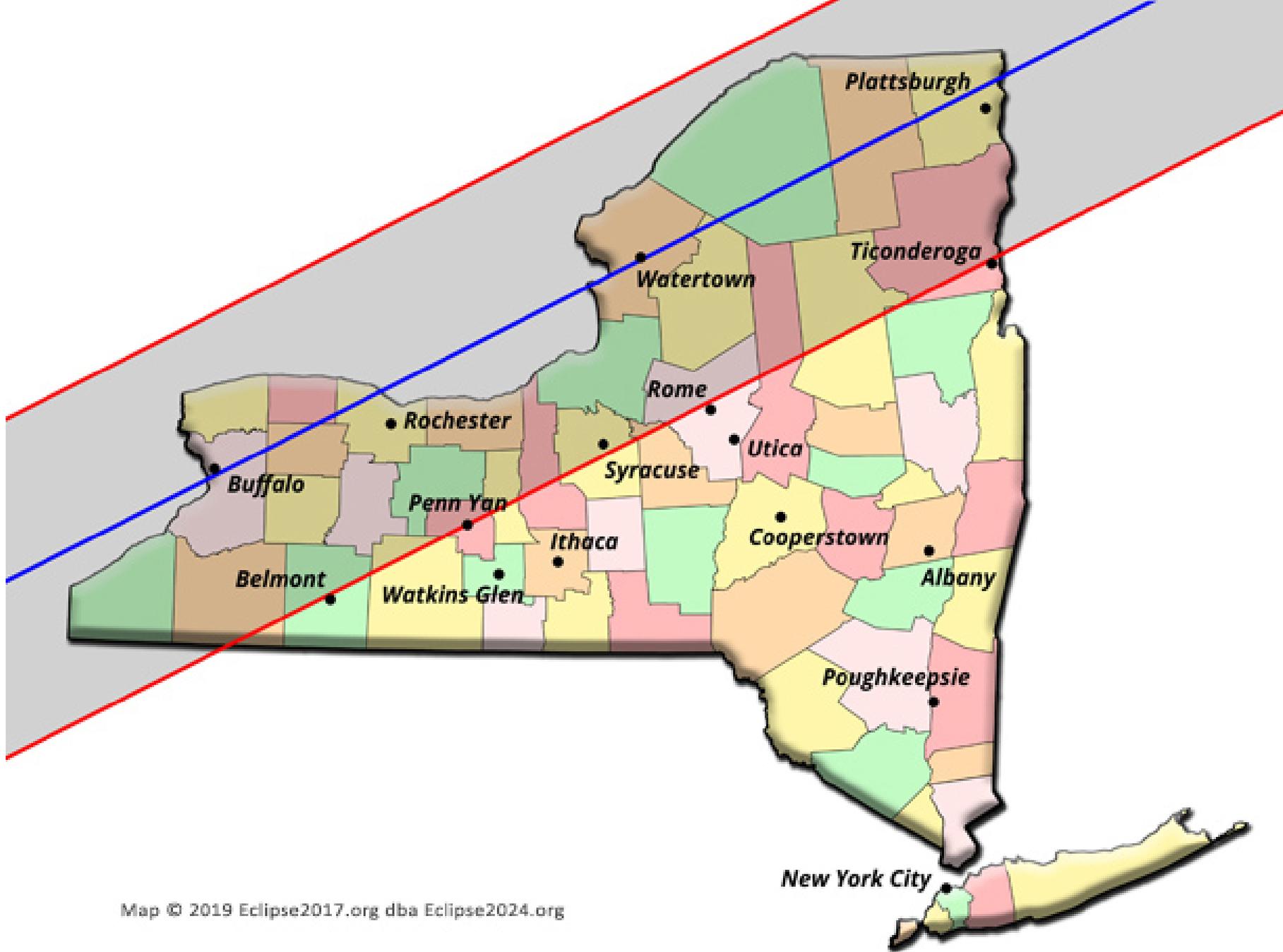
Great American Eclipse.com

Map by Michael Zoller, www.michaelzoller.com, Dec. 2016
Eclipse computations by Xavier Jubier, www.eclipses.org
Eclipse predictions by Fred Espenak, eclipse.gsfc.nasa.gov

Half of the US population lives within 250 miles of the Path







Map © 2019 Eclipse2017.org dba Eclipse2024.org

Path of the 2024 Eclipse-NYS



ASSUMPTIONS ABOUT THE EVENT

- This will be a five day event. April 5 – 9, 2024.
- Chautauqua County will see an influx of 50,000-250,000
- Possibility of 1,000,000 travelers through county in the weekend and day of event
- Visitors will trickle in over several days prior to the event
- Lodging (hotels, bread & breakfast, RV parks) will be sold out one year in advance
- Portable toilets, refuse containers and bottled water may need to be in place at sanctioned event locations (parks and recreation areas, etc.)
- Many observers will travel without planned lodging.
- Many observers will attend eclipse related events as well.
- Eclipse-chasers are not committed to view from any one location and will favor mobility, confirming their viewing plans the day before – or even the day of the eclipse - based on the weather forecast.
- Weather may impact last-minute travel, if a preferred viewing area experiences cloud cover, visitors may quickly disembark to an area with clear sky. There could be a last-minute influx (or exodus) of people. For the purpose of this planning effort, the day will be clear or mostly clear.
 - Note that historically in Buffalo on April 8, the average percentage of the sky covered by clouds does not show significant systematic variation over the course of the day, with the percentage of time that the sky is overcast or mostly cloudy remaining about 56% throughout the day.

Totality first touches New York state at 15:16:47EDT, at the state line on US20 just west of [Ripley](#) (3m40s just before 15:17EDT).

The shadow skates up the coast, engulfing Lake Erie along its entire length before hitting [Niagara Falls](#) and [Buffalo](#) almost simultaneously.

The Falls itself sees 3m30s of totality at 15:18:12EDT, while the lakefront of Buffalo enjoys 3m45s just 2 seconds later.

Why the big difference in duration? Buffalo lies almost exactly on the centerline, while the Falls are somewhat north of it!

If you want to be right on that centerline, then you need to be just a bit south of downtown Buffalo, perhaps at the Tiff Nature Preserve; there, you'll get another half-second or so of totality!

- Viewers will favor locations with no light pollution. Night lights will activate during the total eclipse, unless de-energized.
- Viewers will position themselves at any location they believe to be legal. Especially areas with long sight-lines:
 - Building roofs
 - Hilltops
 - Cliffs
 - Shorelines
 - Remote areas
 - State and local parks
 - Hiking trails and campsites
 - Lakes and open land
- A huge exodus of visitors may leave immediately at the end of totality or end of event and a significant number will wait until the following day.
 - 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!)
 - Post event congestion could last from 7 to 16 hours.
 - Transportation networks may see congestion including total stoppage
 - Highways
 - Local roads
 - Bike and footpath
- Cellular networks may be overloaded, consider small radios to help staff at events if you usually use cell phone
- Effective communications across all stakeholder agencies will allow for the coordination and deconfliction of requests for limited resources.
- Proper prevention and preparedness programs, such as public awareness of safe viewing methods, will reduce or prevent eclipse-related injuries.
- Emergency Services will be stressed. Medical emergencies may occur across numerous sites simultaneously requiring outside medical transportation assets to be requested. Hypothermia, eye injuries, strains and sprain and carbon monoxide poisoning are real threats.
- Public Information and education is required for safety considerations.
- Crisis communications are required to ensure adequate and timely warning to the public in the event of a potential threat or hazard.

Travel Reports from August 2017



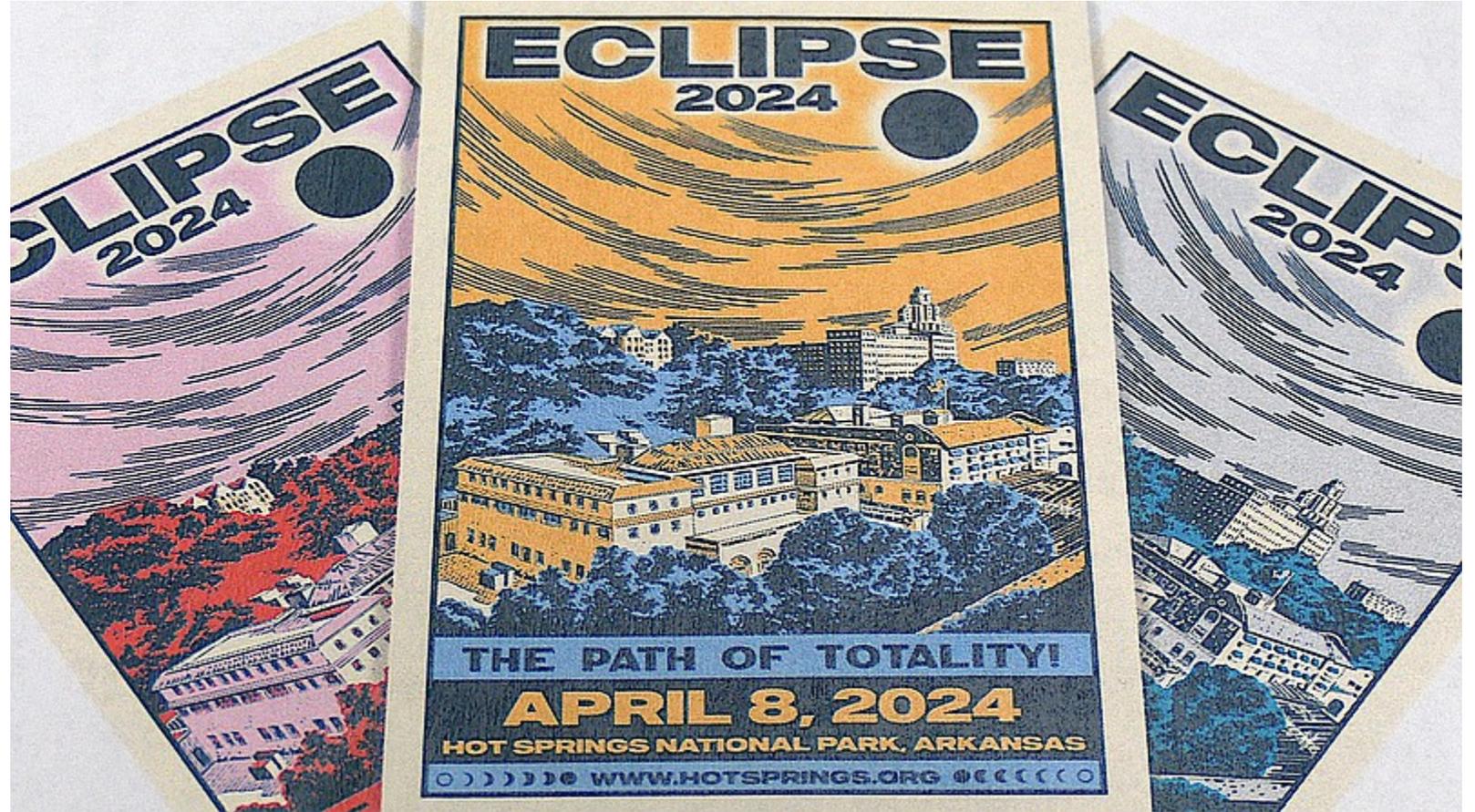
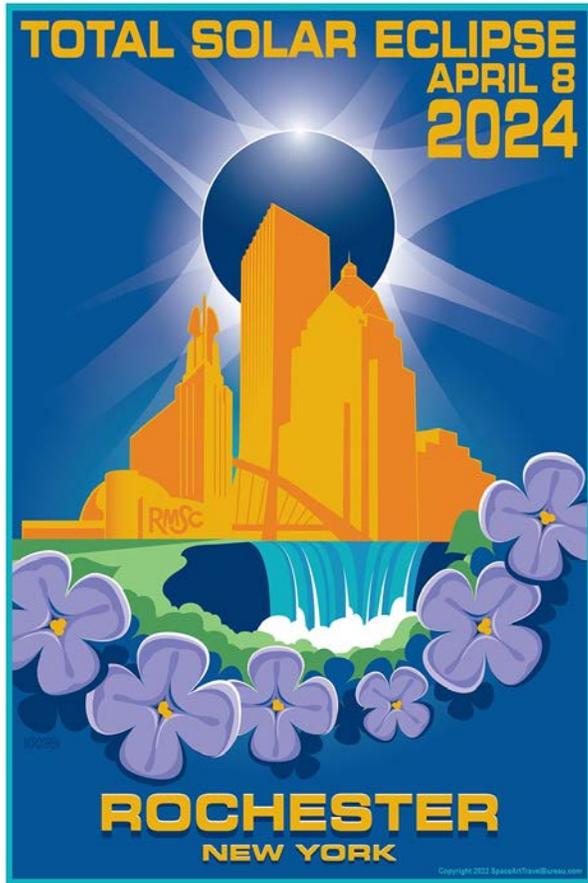
Illinois 2017, Chicago Tribune

- 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

What can business expect, based on previous after action reviews.

- Gas Station shortage
- Restaurant Shortages of food
- Grocery Store Shortages
- Large Volume of customers
- Extended delays due to traffic

ECLIPSE PROMOTIONS FOR TOURISM



GENESE^{EE} *the* ECLIPSE

TOTAL SOLAR ECLIPSE • APRIL 8, 2024 • GENESEE COUNTY, NY
SEE IT WHERE THE SKIES ARE DARKER



GeneSeeTheEclipse.com

ECLIPSE
2024

APRIL 8, 2024
HOT SPRINGS NATIONAL PARK, ARKANSAS
O))))))● **HOTSPRINGS.ORG** ●(((((((O



TOURISM QUESTIONS

- Satellite parking with shuttles?
- What eclipse viewing events (if any) are sanctioned within the County?
- How to warn squatters about potential crop damage (winter wheat)
- Advise guests about the need for warm clothes.
- Visitor pet emergencies – locations of veterinarian offices on tourism website
- Update websites to make it more eclipse friendly.

Opportunities

Tourism and Marketing

- Hotels, restaurants and other entertainment venues may benefit, and hotels may reach capacity far before April 2024 (GTC, 2023).
- Events planned before AND after eclipse viewing could generate revenue for local businesses and the state (Ohio, 2022).

Education

- The rare total eclipse is an opportunity to engage P-12 and higher education.

Emergency Management

- Unique opportunity to exercise many plans and annexes that are typically only able to be simulated.



Opportunities

Tourism and Marketing

- The August 21, 2017, eclipse drew nearly 20 million American adults to locations (other than their homes) to get a better view of the eclipse (NASA, 2023).
- Tourist-heavy locations like Niagara Falls and the Adirondacks could see a massive influx (RMSC, 2023).
- Economic benefits to affected areas could be significant with visitors likely to be driving from across NYS, and other cities in the Northeast not in the eclipse path (ex. Boston, Montreal, Philadelphia) (Rochester Visitors Association, 2022).
- Previous eclipse data suggests visitors may arrive in the days prior to eclipse day, especially if the eclipse is promoted as part of a larger trip to various regions of New York State (Buffalo, Niagara Falls, Finger Lakes, Adirondacks) (RMSC, 2023).



HOTELS AND AMMENITIES

- A CHECK OF LOCAL HOTELS ON 11/05/23 SHOWS THAT MANY CHAUTAUQUA COUNTY HOTELS ARE ALREADY BOOKED THAT WEEKEND WITH NO VACANCIES.
- “La Quinta” was almost \$800.00 for a single room for 04/07/23-04/08/23

How can I better prepare??

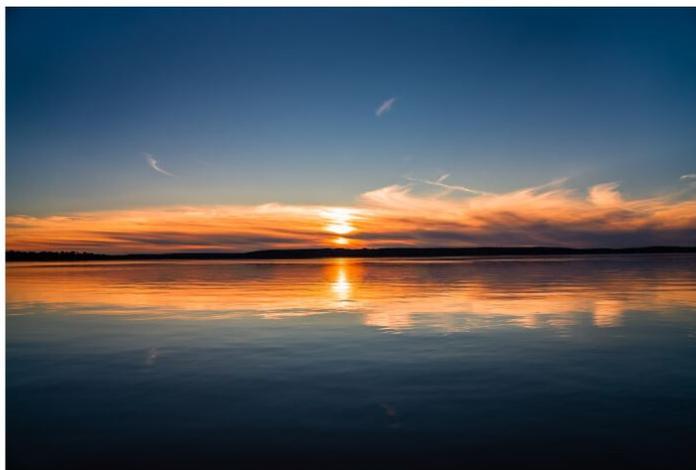
- Prepare like it's a winter storm coming.
- Look at supplies and inventories, plan ahead of what you normally do
- Business that may not be open normally on Sun/Mon, may want to reconsider
- Plan, Plan, Plan ahead for supplies, scheduling and personal needs



Experience the 2024 Eclipse in Chautauqua County, NY

Sep 6, 2023 | by Chautauqua County Visitors Bureau

For the first time in almost a century, a Total Solar Eclipse will take place in New York State and Chautauqua County will be in the path of 100% totality for viewing! The Eclipse will occur on Monday, April 8th, 2024 at 3:17 pm and will last approximately 4 minutes. With a total eclipse happening every hundred years or so, this is truly a once in a lifetime event! Learn more about all the ways to make the most of the upcoming eclipse in the Chautauqua Lake Erie Region below.



Categories

Events and Festivals (17)

Wine, Culinary and Craft Beverages (14)

Uncategorized (10)

Vacation Learning (10)

Lakes (26)

Nature and Environment (28)

Outdoors and Recreation (39)

Winter Activities (15)

Family Activities (39)

Groups (1)

Chautauqua Institution (15)

Colors of Chautauqua (7)

Featured (3)

Romantic Getaway (2)

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!



ECLIPSE GLASSES



Sponsored ⓘ

Solar Eclipse Glasses - CE and ISO Certified Safe Shades for Direct Sun Viewing - Made in the USA (10 Pack) by Soluna

4.7 ★★★★★ (2,173)
1K+ bought in past week

\$16⁶⁵

✓prime One-Day
FREE delivery **Tomorrow, Apr 10**

🏠 Small Business ▾



Sponsored ⓘ

Soluna Solar Eclipse Glasses - CE and ISO Certified Safe Shades for Direct Sun Viewing - Made in the USA (5 Pack)

4.5 ★★★★★ (86)
1K+ bought in past week

\$9⁶⁵ (\$1.93/Count)

Save more with Subscribe & Save

✓prime One-Day
FREE delivery **Tomorrow, Apr 10**

🏠 Small Business ▾



Sponsored ⓘ

Soluna Solar Eclipse Glasses - CE and ISO Certified Safe Shades for Direct Sun Viewing - Made in the USA (50 Pack)

4.7 ★★★★★ (42)
50+ bought in past week

\$59⁹⁹ (\$1.20/Count)

✓prime One-Day
FREE delivery **Tomorrow, Apr 10**

🏠 Small Business ▾



Sponsored ⓘ

Soluna Solar Eclipse Glasses - CE and ISO Certified Safe Shades for Direct Sun Viewing - Made in the USA (25 Pack)

4.6 ★★★★★ (35)
100+ bought in past week

\$34⁹⁹ (\$1.40/Count)

Save more with Subscribe & Save

✓prime Two-Day
FREE delivery **Tue, Apr 11**

🏠 Small Business ▾



Lunt Solar Systems Solar Eclipse Glasses - 5 Pack Premium CE & ISO Certified, Safe shades for Direct Sun Viewing - Protect Eyes from Harmfu...

4.6 ★★★★★ (4,523)
700+ bought in past week

\$9⁶⁵

✓prime One-Day
FREE delivery **Tomorrow, Apr 10**

🏠 Small Business ▾

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

Get Notified During an Emergency

Sign up for NY-Alert and receive emergency alerts for your area.

SIGN UP

LOGIN

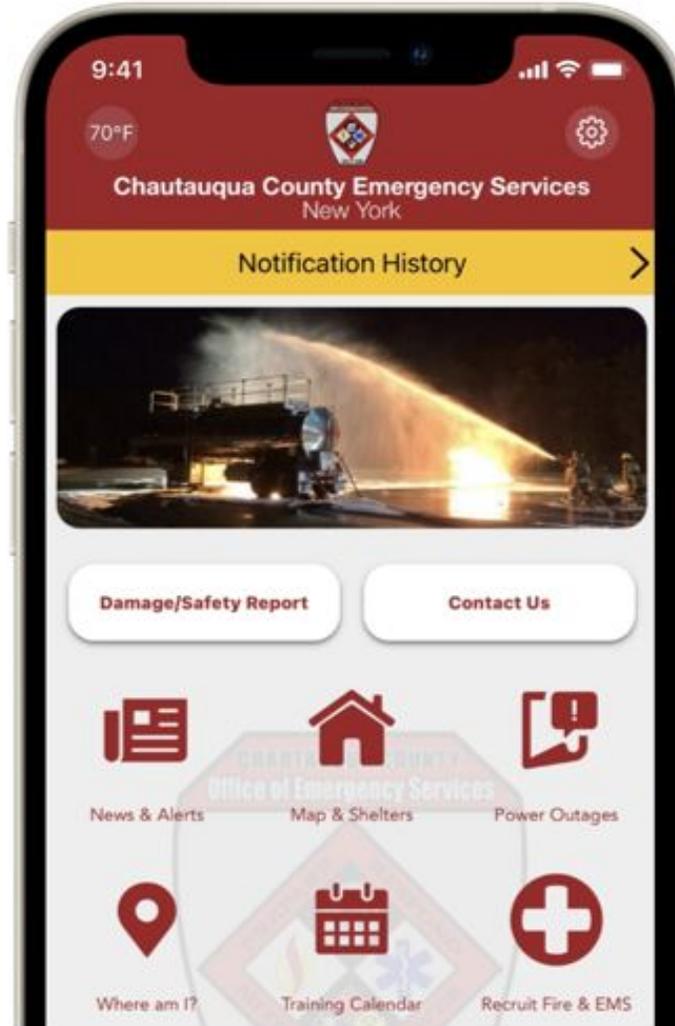
- <https://alert.ny.gov/sign-ny-alert-0>
- NY-Alert is New York State's Mass Notification System used to warn citizens of emergencies and critical information in a timely manner to help protect lives and keep New Yorkers safe. By signing up for NY-Alert, you can receive warnings and emergency information via the web, your cell phone, email and other technologies.

Download our app today!

Search: Chautauqua County Emergency Services, NY



SCAN
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