AAS Eclipse Conference

30 Sep 2023 – San Antonio, TX

What do we do AFTER...

The Opening Act!

Saturday, 14 October, 2023

The Main Event!

Monday, 8 April, 2024



Legal Stuff

The statements made herein reflect the best effort of Dan McGlaun, the presenter of this presentation (the "Presenter") to offer in good faith, suggestions for event planners and scientists in organizing, planning, educating, and otherwise hosting eclipse-viewing activities for the annular solar eclipse of October 14, 2023 and the total solar eclipse of 8 April 2024 (collectively, the "Events"); these statements are intended to be anecdotal rather than consultative, based on the Presenter's actual experience in having successfully observed a large number of solar eclipses. The Presenter, and eclipse2024.org, along with their sponsors, business partners, vendors and suppliers, and heirs and assigns, cannot be held liable for weather, or for actions of any third party, and will therefore not accept responsibility for personal injury, property damage, lost revenue or any other damage or alleged damage, resulting from the actions or inactions of any person or organization with regard to the Events. Persons participating in the Events are advised that this participation, as well as planning for the Events (including the acquisition of knowledge through this presentation or from the Presenter at any time) requires that they agree to hold harmless both the Presenter and Eclipse2024.org, and their sponsors, vendors and suppliers, heirs and assigns, from any and all legal action and/or claim for damages of any kind, which result or are alleged to result from such participation and/or preparation.

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Presented by

Dan McGlaun

Clayton IN, USA



ECLIPSE Organia



ECIPSE2024.019 All the features from Eclipse2017.org, plus "MUCH MORE FOR '24"! Everything is available in English, Spanish and French.





Detailed eclipse information for:

Educators • Local Governments • General Public Eclipse Chasers • Media • Chambers of Commerce







Eclipse2024.org has all the standard eclipse education and eye safety information, PLUS these unique features:



ECLIPSE VIEWING INFORMATION

Eclipse viewing blogs

- Available for 75 major regions along the path
- · Answers the questions "Where? When? What? How?"
- Eve safety
- · Travel considerations
- · Select local viewing locations
- · Interactive map showing eclipse times and phases

The perfect place for everyone to plan eclipse viewing!







ECLIPSE SIMULATOR

Incredibly realistic eclipse simulation

- · Shows the 2023 / 2024 eclipses from any location
- · Realistic prominences and chromosphere
- Full-disk Baily's Beads (generated with LRO data)
- · Sun / Moon outlines · Stars and Planets
- · Sunrise / Sunset effects · Eye Safety warning
- · Library of foregrounds and coronas
- · Many other realistic details! (Contact Dan for a personal tour of all the features)
- * 2023 Annular-Total eclipse now also available! *
- eclipse2024.org/eclipse-simulator/?lang=en



ECLIPSE SIMULATION VIDEOS

The easiest way to preview the eclipse!

- · Extracted from the Eclipse Simulator
- >2,200 cities in North and Central America!
- · 2023 and 2024 eclipses are included
- · Now available for viewing on YouTube

Eclipse sequence videos are available for official use by Educators / Tourism / Government / Media (Attribution requested)

Search directly in YouTube -OR -

Visit the Eclipse2024.org video landing page

· Searchable city list / Detailed selection map



eclipse2024.org/eclipsevideos/video.html?lang=en

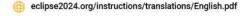




ECLIPSE VIEWING INSTRUCTIONS

Simple eclipse viewing instruction booklet

- · Great resource for everyone
- · FREE to download and use
- Perfect for eclipse outreach Easy-to-understand style
- · Accurate and detailed
- · Available in English, French and Spanish



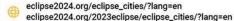


LOCAL ECLIPSE CIRCUMSTANCES

Collection of location-specific eclipse information

Celebrating the eclipse viewing experience of EVERY locality in North America!

- Complete 2023 and 2024 eclipse circumstances
- · >140,000 cities in North / Central / South America
- · Links to maps, blog posts, simulator, videos and community information.





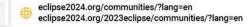


FREE resources for official community plans

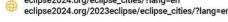
- ALL 140,000 communities have a community page!
- Back by popular demand from 2017

COMMUNITY PAGES

- Communities can host eclipse-weekend plans COMPLETELY FREE!
- · 2023 and 2024 eclipse sections
- · NOT just for cities in the path!







All of the above resources are summarized for your community in one convenient location! Visit EclipseResources. Solar to find YOUR community's information and resources!

ECLIPSE2024.ORG'S **ECLIPSE SIMULATOR**

WHAT WILL THE ECLIPSE LOOK LIKE FOR YOUR

PATRONS / VISITORS / MEMBERS STUDENTS / AUDIENCE?



Show them with the FANTASTIC

Eclipse Simulator

from Eclipse2024.org!

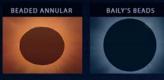








(Featured in leading publications!)



Accurate, Ultra-Realistic Simulation of the

Annular Eclipse of October 14, 2023

and the

Total Eclipse of April 8, 2024

See all the great effects that occur during totality and annularity! Preview the eclipses from any location, to help you plan for eclipse day! Shows the eclipse experience from inside, outside, or at the edge of the path! Comprehensive instructions help you learn (or teach) about eclipses!







Eclipse circumstances are calculated for any location Accurate eclipse times are displayed in local time or user-selectable time zone Baily's Beads preview uses LRO LOLA data for complete realism Calculations are performed using latest values of Besselian Elements and ΔT Eye protection requirements are prominently displayed Real-time clock shows the eclipse's progress with user-selectable speeds

Atmospheric refraction and sunrise/sunset effects Chromosphere, diamond ring, and accurate full-limb Baily's Beads Stars and Planets displayed during totality User-selectable coronas and foregrounds Limb darkening, solar glare, prominences and orange horizon glow Aerial shadow preview and eclipse shadow outline map







EclipseSimulator.Solar

Update Requests

Weather
USB fan :-)
Crowd noise
Animals / Insects



Most Likely

360° view
Double Diamonds
Movable center (zenith)
LRO data manipulation



Nice to Have

Solar radius
Oblateness
Calculations Mentee

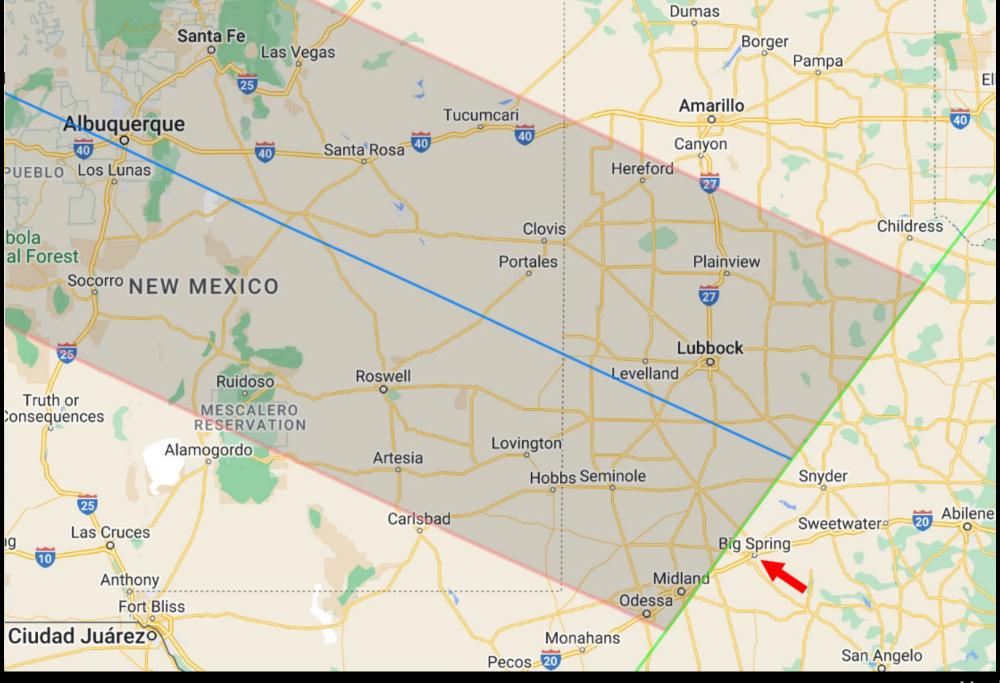


Comments on Oz and 2045



May 20, 2012







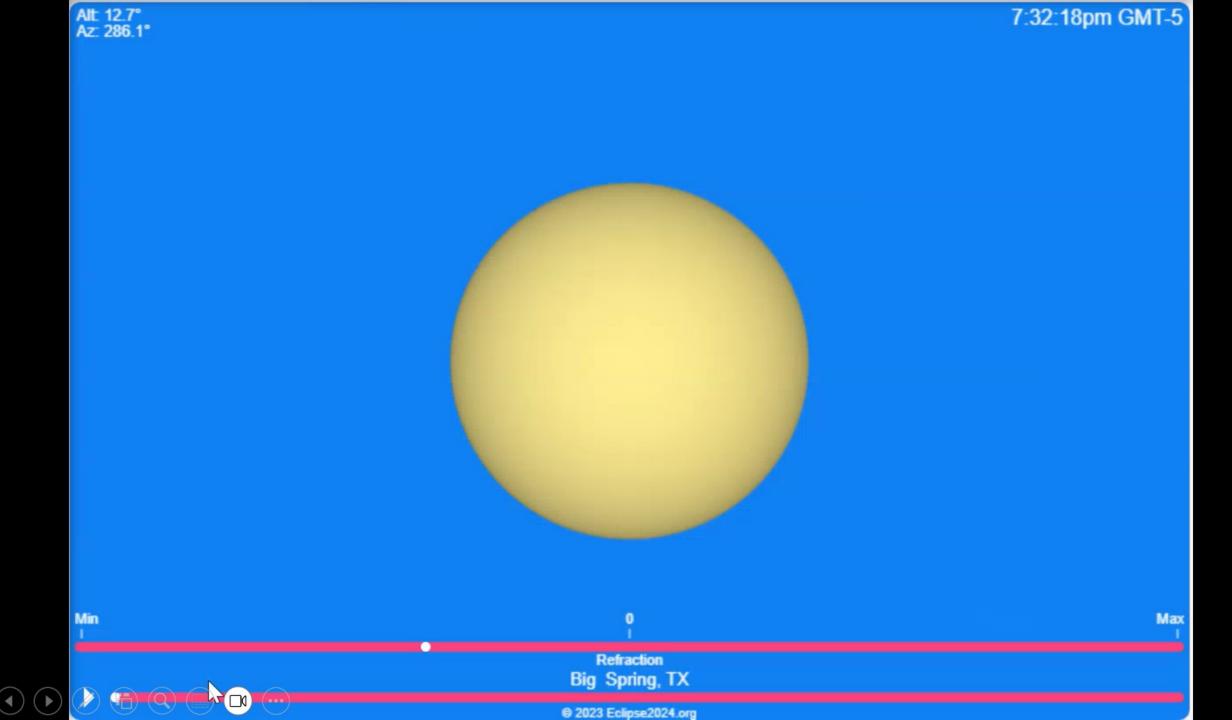


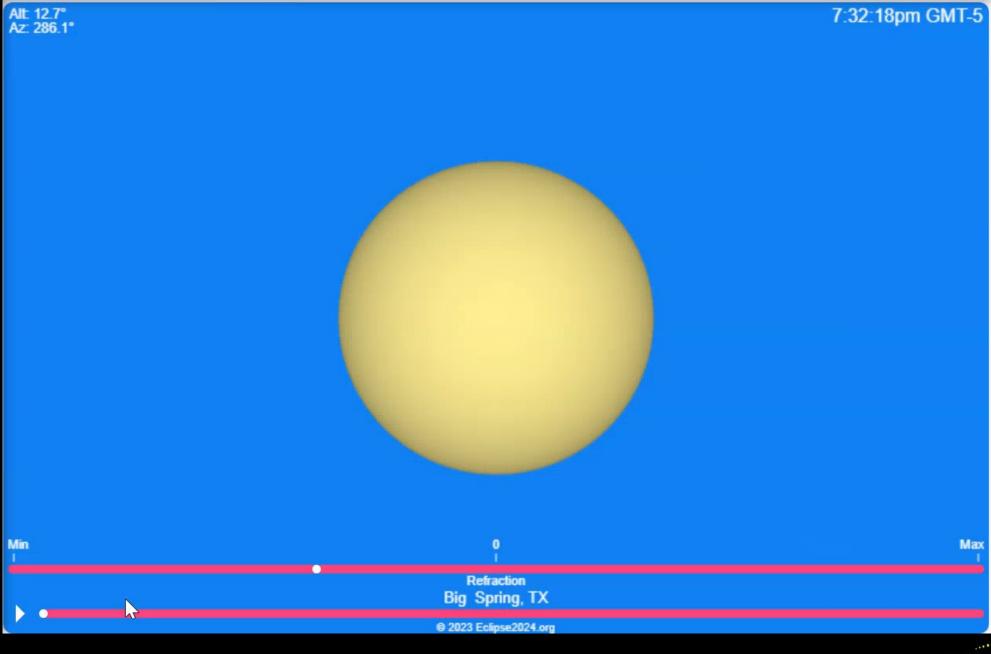


How to Predict...

Refraction!





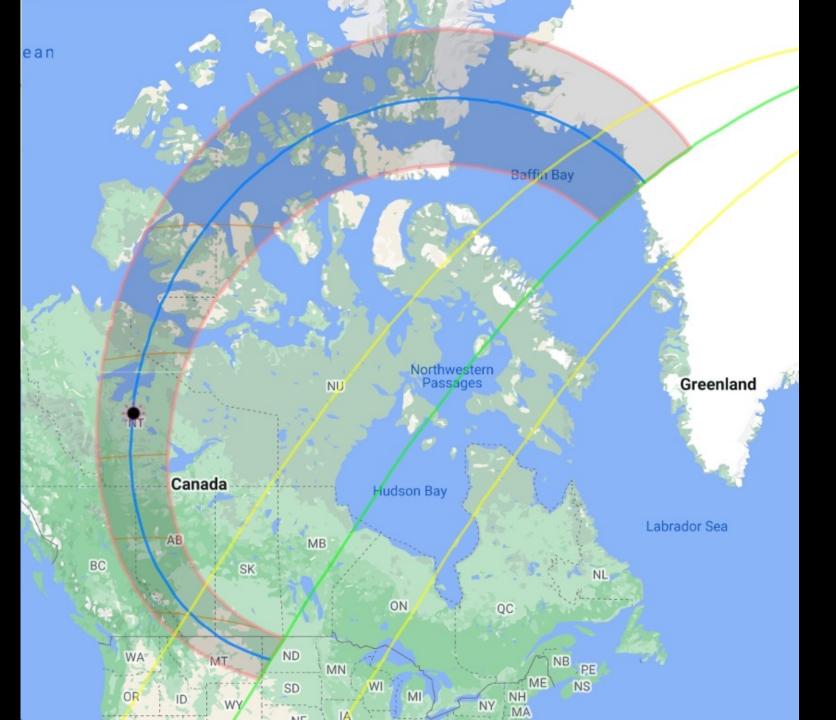


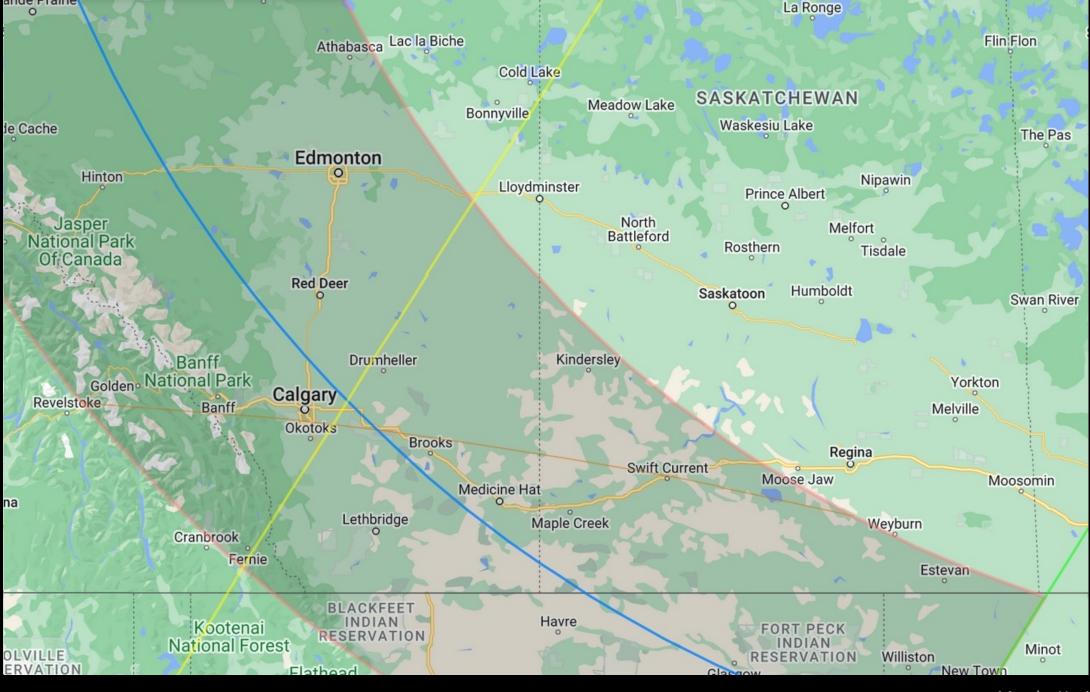


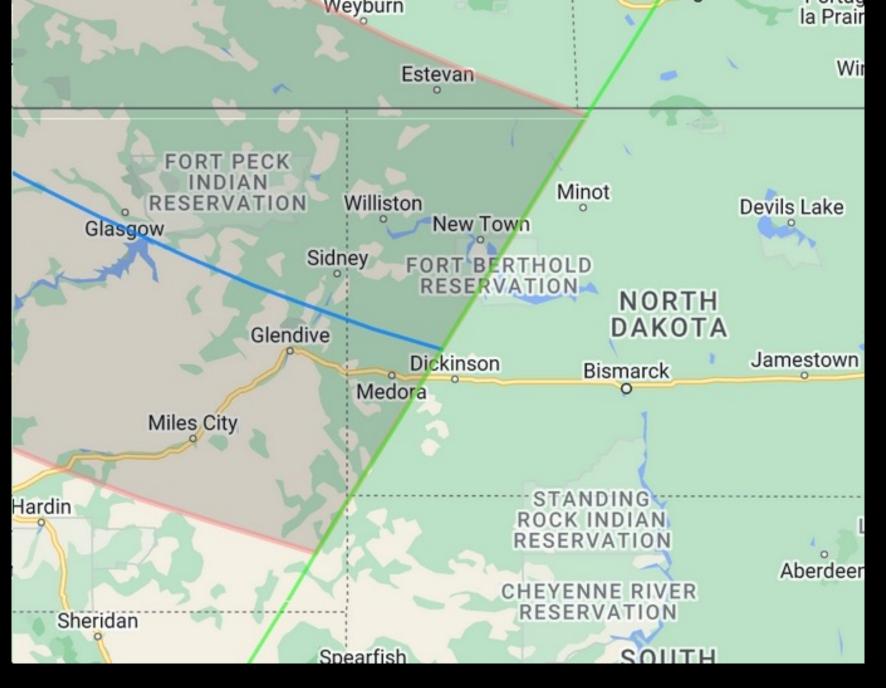


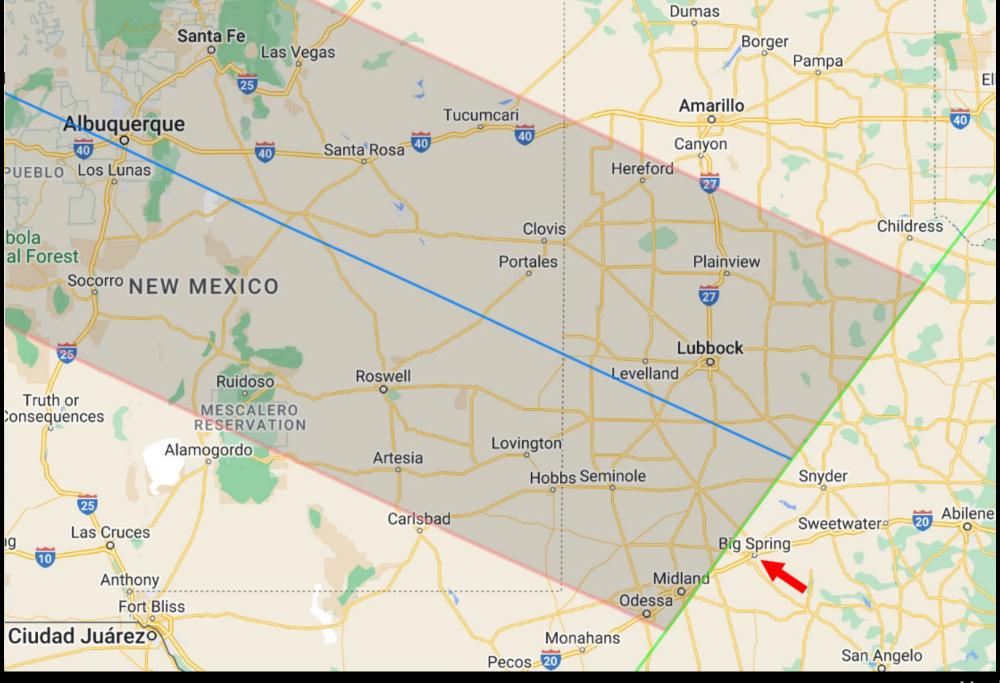


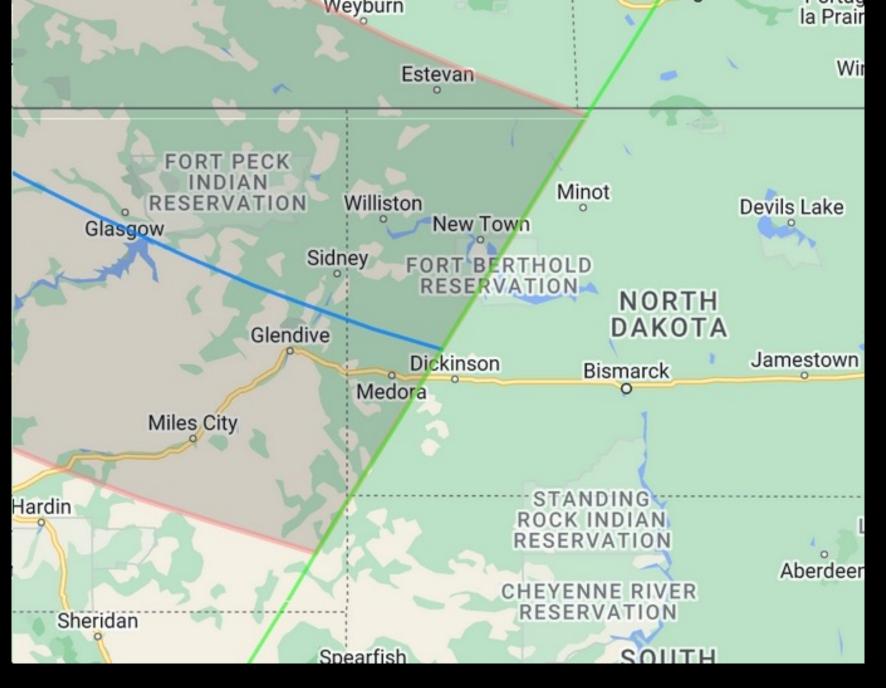




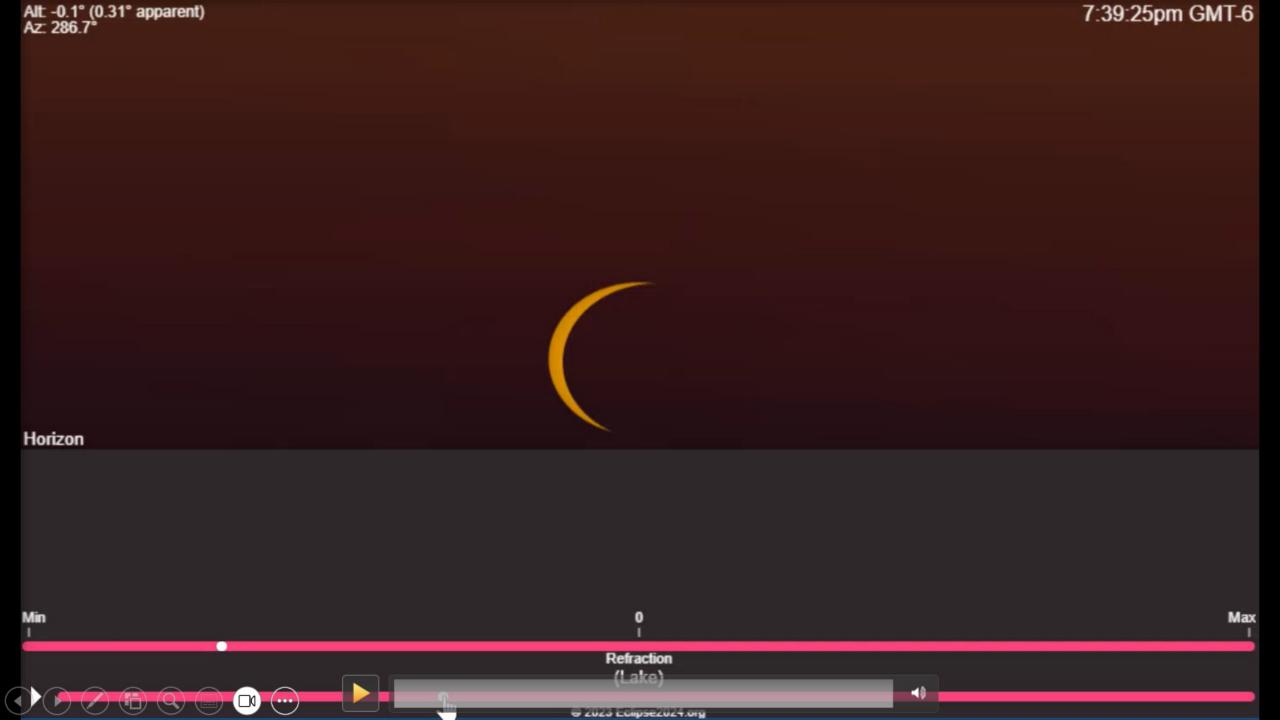


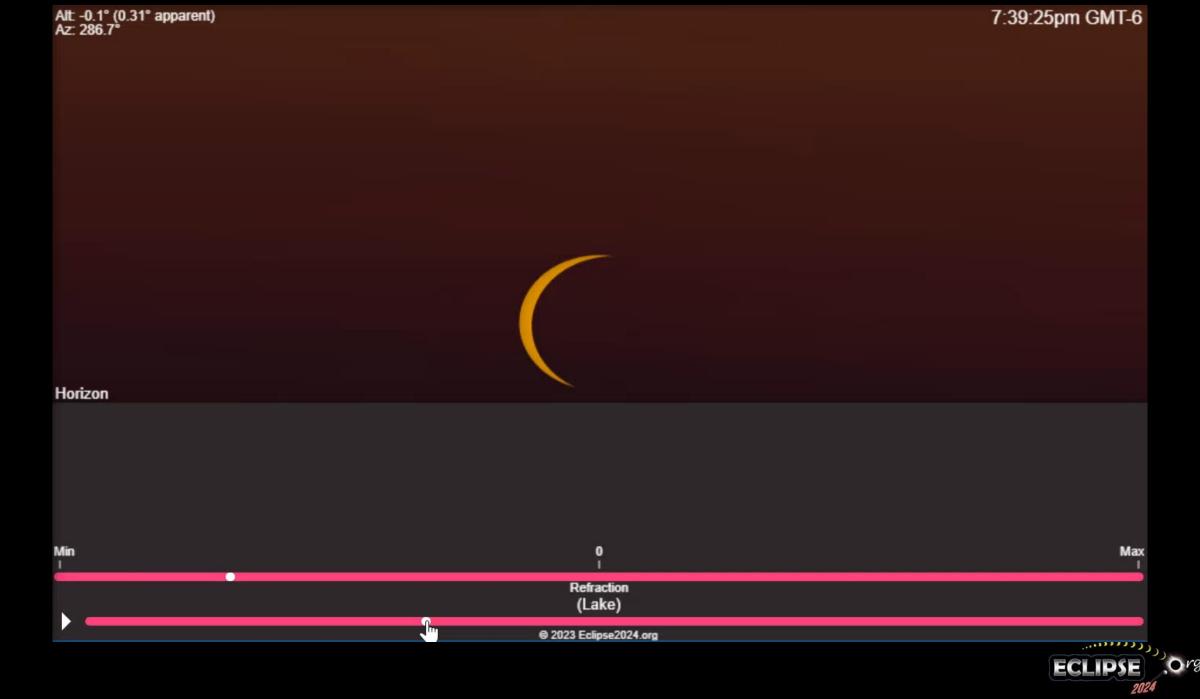






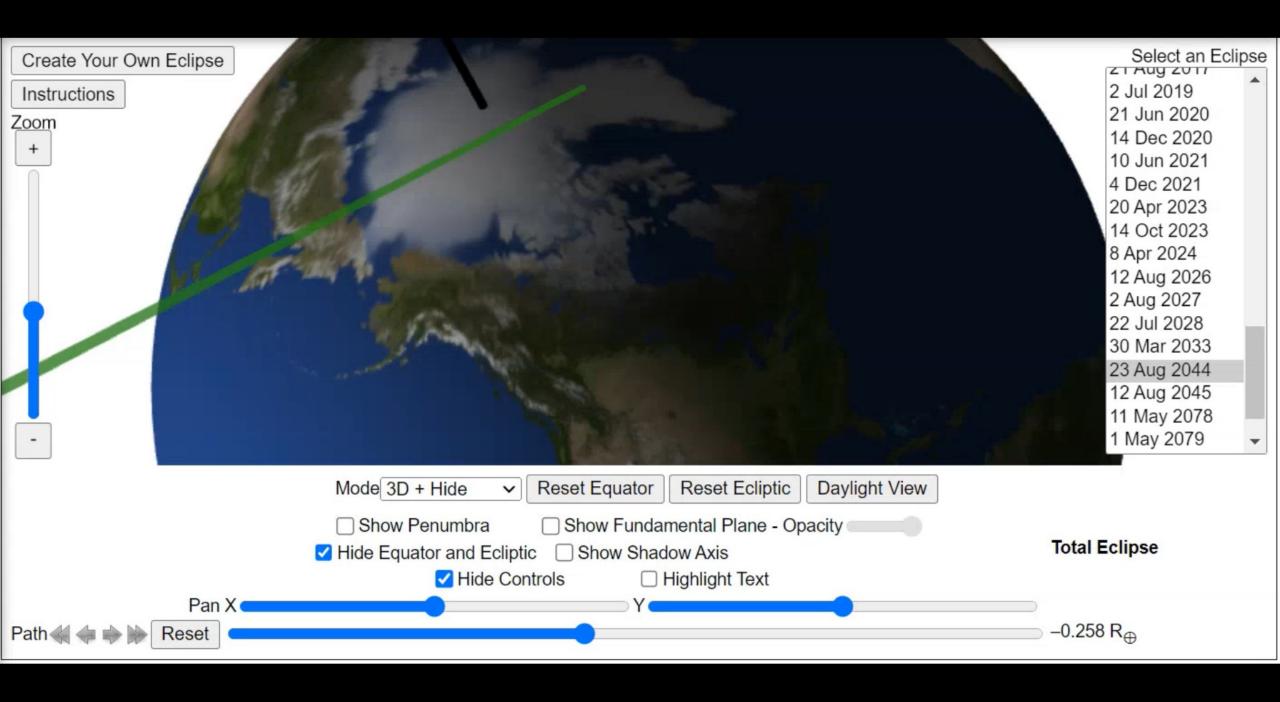


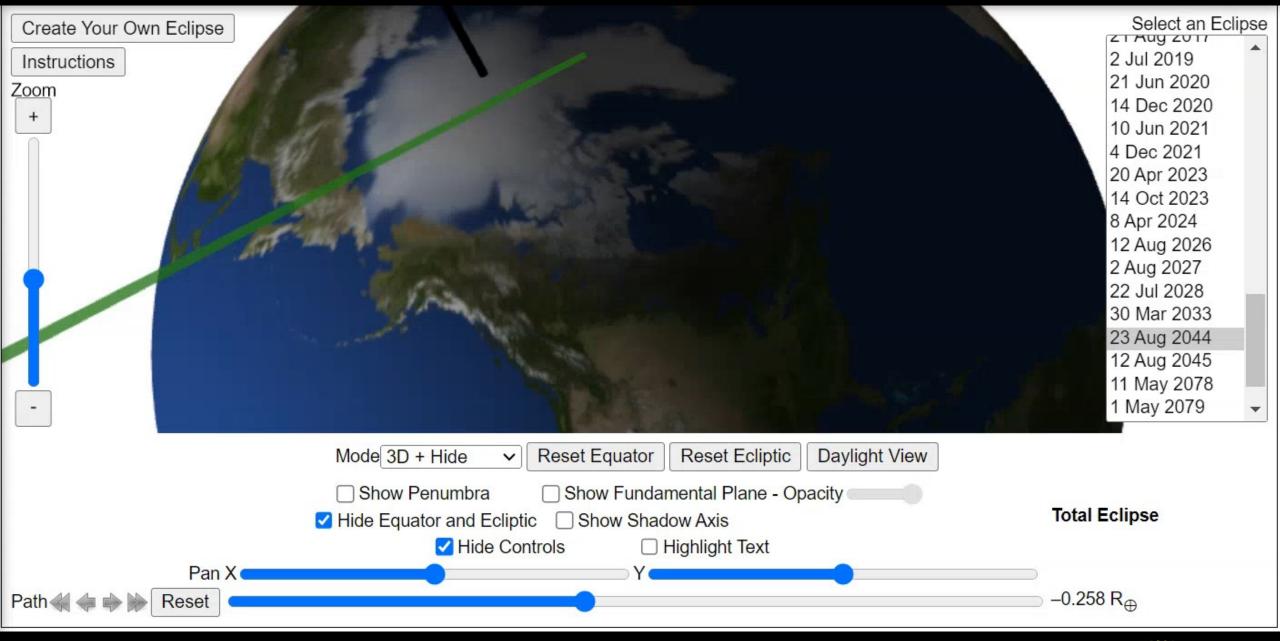




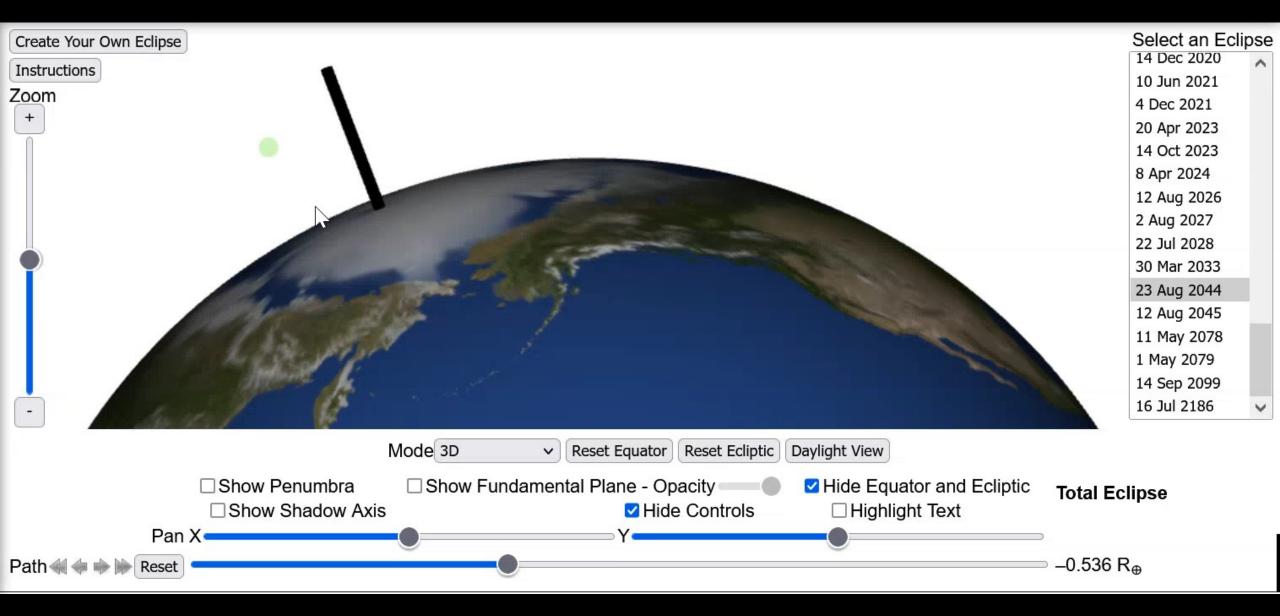
One more view













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EclipseSimulator.Solar

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Videos. Eclipse 2024. org