

TSE2024

April 8 2024

Successful 2017 Eclipse Trip to Wyoming, USA

Preparations started in 2023 -
- Member Meeting mentions
1000 RASC Eclipse Glasses ordered, Summer 2023
Media interviews by Garry Dymond, Randy Dodge
started late Fall'23
Public presentations to various groups, distributed
free e-glasses to attendees.
Additional Eclipse glasses ordered



2017 Centre Eclipse Trip

Eclipse trip to Douglas, Wy USA
Via Denver, Co

In August 2017, Centre members
travelled to Denver, Colorado to
join a Bus Tour to Douglas, Wy
to experience the Total Solar Eclipse

Randy Dodge
Garry Dymond
Robert Babb
Dave Newbury

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Member Meetings

May 2023



Meeting Program

- Welcome, Acknowledgement
- Presentation: Blake Nancarrow - RASC Observing Certificate Programs
- Announcements, News
- Report on International Astronomy Day (May 6, 2023)
- Observation Reports
- Members' presentations
 - Jim Stacey – Adapting the Canon FD800 lens for astrophotography
 - Randy Dodge – Solar Eclipse, April 8, 2024
 - Hilding Neilson – Plans for the Gander 2024 Solar Eclipse Event
- Observing Chair: The Sky Next Month
- Questions (on new equipment, etc.) from members and visitors
- Post-meeting chat, social coffee

Jan 2024



Meeting Program

- Welcome, Acknowledgement
- St. John's Centre AstroImaging Contest
- Presentation: Randy Dodge
 - 2024 Newfoundland Total Solar Eclipse
- Announcements, News
- Observation Reports
- Observing Chair: The Sky Next Month
- Questions (on new equipment, etc.) from members and visitors
- Post-meeting chat, social coffee

Feb 2024



Meeting Program

- Welcome, Acknowledgement
- Presentation: Nikolay Damyanov - Weather & Climate for the 2024 Newfoundland Total Solar Eclipse
- Announcements, News
- Observation Reports
- Observing Chair: The Sky Next Month
- Questions (on new equipment, etc.) from members and visitors
- Post-meeting chat, social coffee

Mar 2024



Meeting Program

- Welcome, Acknowledgement
- Presentation: Garry Dymond,
 - March 2024 Southern Hemisphere Trip
- Announcements, News
- Observation Reports, Photos
- Final 2024 Eclipse Q & A
- Observing Chair: The Sky Next Month
- Questions (on new equipment, etc.) from members and visitors
- Post-meeting chat, social coffee

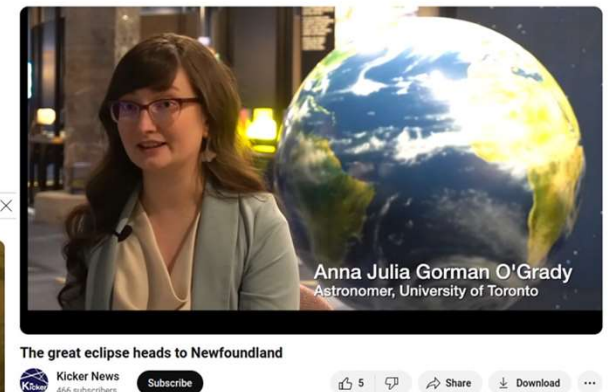
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Public Lectures

- Johnson Geo Centre
- MUN Pensioners Group (+ Zoom)
- Manuel's River Interpretation Centre
- RASC Meetings May '23, Jan-Mar '24
- RASC Eclipse Wrap-Up Apr '24
- Anna O'Grady Lecture, Geo Centre

Media Interviews

- Garry Dymond
- Randy Dodge
- Anna O'Grady



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St. John's Centre Pamphlet, Collaborative Member Input

- Meant to inform and provide map of event
- Distributed with glasses and at events, meetings

Notes

Safety



Clouds, sunglasses, photo-film are not safe to use for viewing an eclipse

Never look at the Partial Eclipse without proper certified filter

Photo tips

Don't sacrifice viewing the eclipse to get the perfect picture

Buy solar filters early and test before eclipse day

Where / When

The closer you are to the centre of the shadow path, the longer will be the totality. Outside the path of totality will be a partial eclipse of varying amounts.

Eclipse will be late in the afternoon and the Sun will be low in the sky.

The next NL Total Solar Eclipse after 2024 will be May 01, 2079

Preparations

Prepare for cold weather. May need to drive on the day of the eclipse.

 St. John's Centre
Royal Astronomical Society of Canada
www.stjohnsrasc.ca @rascNL

4:08 PM

**Monday
April 8 2024**

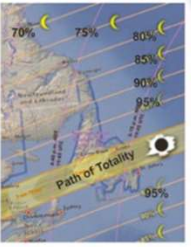


5:13 PM



Perhaps the most beautiful sight in the sky

6:17 PM



Times are approximate for Terra Nova Park, West coast times 4-5 minutes earlier
**Total eclipse over portion of Newfoundland
Partial eclipse over the whole Province**

Filters required for all partial phases of the Eclipse



Version 2.4 - April 2023
Updates to come

Monday April 8 2024

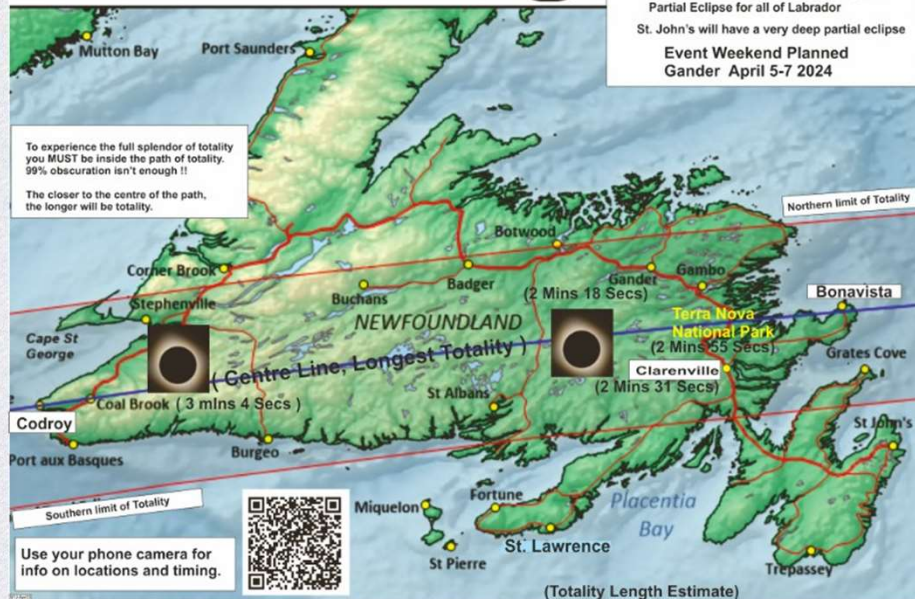
4:09PM - [5:15 PM] - 6:17 PM NDT Approx

Partial Eclipse for all of Labrador

St. John's will have a very deep partial eclipse

Event Weekend Planned

Gander April 5-7 2024



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Publicity



The Johnson Geo Centre

December 13, 2023 · 🌐

A total eclipse of the Sun April 8, 2024 is happening in Newfoundland/Labrador. Enjoy a free talk by Eclipse Chaser Randy Dodge about what to see during an eclipse. Happening tonight December 13th , 7pm at the Johnson Geo Centre



Monday, April 22, 2019 · Brandon, NB, Canada

Randy Dodge



Royal Astronomical Society of Canada - RASC - St. John's Centre

Intro

The St. John's Centre of the Royal Astronomical Society of Canada (RASC) is one of 28 such clubs across the country.

Page · Community Organization

info@stjohnsrasc.ca

stjohnsrasc.ca/index.html

Promote Website

Not yet rated (1 Review)

Posts



Royal Astronomical Society of Canada - RASC - St. John's Centre

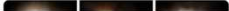
April 10 at 11:04 AM · 🌐

At our next public meeting on Wed Apr 17th (in-person and on Zoom) we'll have an Eclipse wrap-up with pictures and experiences. Check the website a day or so before for meeting details. In the meantime, here's a few pictures I have of the eclipse totality. International Astronomy Day is also coming up on May 18th at the Johnson Geo Centre where we'll be glad to interact about the Eclipse and Astronomy in general, hopefully with some viewing opportunity.



Photos

See all photos



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Local News

Space Enthusiasts to Gather on Fogo Island for Total Solar Eclipse

Jan 15, 2024 · 8:02 AM



Space enthusiasts from around the globe are converging on Fogo Island in April for the total solar eclipse, with Newfoundland and Labrador's central region poised directly on the path of totality for the event on April 8.

Bethany Downer, Chief Science Communications Officer for the Hubble and James Webb Space Telescopes, explains that those directly on the path of totality will see a ring of light around the moon, a unique phenomenon starting late in the

WEATHER

January 17, 2024, 10:45pm · 12 years

0°
LOW -3°

THU -3° FRI -4° SAT -2°

Forecast

How We Can Help the People of Ukraine

CONCERTS & EVENTS



The Johnson Geo Centre

★ Rating · 4.6 (229 Reviews)

Photos

See all photos



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During a total eclipse, it gets much darker and colder, so animals and plants can also get confused and get ready to sleep. Nighty-night!

19 · 5 comments · 4 shares

Like

Comment

Share

View more comments

Mark Patrick

Eclipse fact #9 If once upon a time you were falling in love, but now your only falling apart, there's nothing you can do. This a different type of eclipse.

1w · Like · Reply

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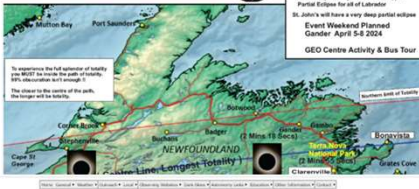
St. John's Centre Eclipse Webpage

Not secure stjohrasc.ca/eclipse24/eclipse2024.shtml

Total Solar Eclipse Newfoundland and Labrador April 8th 2024

Home Pamphlet Where/When Safety What You Will See Special Events

Filters required for all partial
phases of the Eclipse



Version 2.6 - Mar 2024

Monday April 8 2024
Eclipse: 1:10 PM - 4:17 PM
Partial Eclipse: 10:40 AM - 4:40 PM
St. John's will have a very deep partial eclipse
Event Weekend Planned
Gander: April 5-8 2024
GEO Centre Activity & Bus Tour

Newfoundland and Labrador Total Solar Eclipse Special Events April 2024

**Solar Eclipse Soiree
Gander 2024**

Friday April 5th - "Astronomy on Tap" - Elks Club, Caldwell Street - Doors open 6:30, event runs 7-10 pm. Must be 19+.

Sat April 6th - GEO Centre's giant inflatable "Planetarium" - "Let's Talk Science" live podcast - CNA Gander, Magpie Road - 1 - 4 pm.

Sat April 6th - "Astro-Talk" - Legends Bar, Elizabeth Dr - 6 - 8 pm (minors must be accompanied by an adult) / "Outer Space Trivia" - 8 - 10 pm (19+ only).

Sun April 7th - GEO Centre's giant inflatable "Planetarium" - "Let's Talk Science" live podcast - CNA Gander, Magpie Rd - 1-4 pm.

Monday April 8th - **The Big Day!** - CNA Gander Campus - Public access begins at 3:30 pm - Sky will begin to darken about 4:10 - Total sky darkness about 5:10.

Partners/Sponsors:

TOWN OF GANDER
WWW.GANDERCANADA.COM

All activities are FREE. For info, contact Brian at bwilliams@gandercanada.com or 709-651-5914.

Total Solar Eclipse Newfoundland and Labrador April 8th 2024

Home Pamphlet Where/When Safety What You Will See Special Events

USEFUL LINKS TO WHERE AND WHEN THE ECLIPSE WILL OCCUR.

11 days

[A zoomable, clickable map with all the eclipse details for the province.](#)

Clicking on any location of interest will bring up a window with detailed timing, azimuth and direction of the eclipse.

[A zoomable, clickable map for local eclipse information and an animated eclipse experience.](#)
[Change your location for local visual experience](#)

The solar eclipse will stretch from Mazatlan, Mexico, through major population centers such as Dallas, Indianapolis, Cleveland, Buffalo and Montreal. Cities like St. John's are outside the path of totality and will experience a partial eclipse. If you are in Newfoundland/Labrador but outside of the Totality Path, then you will see a partial eclipse.

Newfoundland and Labrador Total Solar Eclipse Special Events April 2024

Home Solar Eclipse Soiree Eclipse Bus Tour Sun Block Party

8

MONDAY, APRIL 8, 2024 AT 9 AM

Solar Eclipse in Gander - Bus Tour

175 Signal Hill Road, St. John's, Newfoundland and Labrador, NL, Canada, Newfoundland and L

[Check this link for further details.](#)

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**The
Royal Astronomical Society
of Canada
St. John's Centre**

- Next Meeting
- **2024 Total Solar Eclipse **UPDATED****
- Planetarium Shows
- Astroimaging Contest Entries & Winners
- Member Photos!
- Report a Meteor Sighting!

Photo: Samantha Smith

Join the University with:
THE ROYAL ASTRONOMICAL SOCIETY OF CANADA RASC

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Newfoundland and Labrador Total Solar Eclipse Special Events April 2024

Home Solar Eclipse Soiree Eclipse Bus Tour Sun Block Party

The Johnson Geo Centre created an event

11m

SUN BLOCK PARTY

Monday, April 8, 3:00-7:00pm
Johnson Geo Centre
Solar Eclipse Viewing on Signal Hill

MON, APR 8 AT 3 PM

Sun Block Party: Solar Eclipse 2024

175 Signal Hill Road, St. John's, Newfoundland and Labrador, NL, Canada, Newfoundland and...

Interested

[Check this link for further details.](#)

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Eclipse Glasses - Very Popular

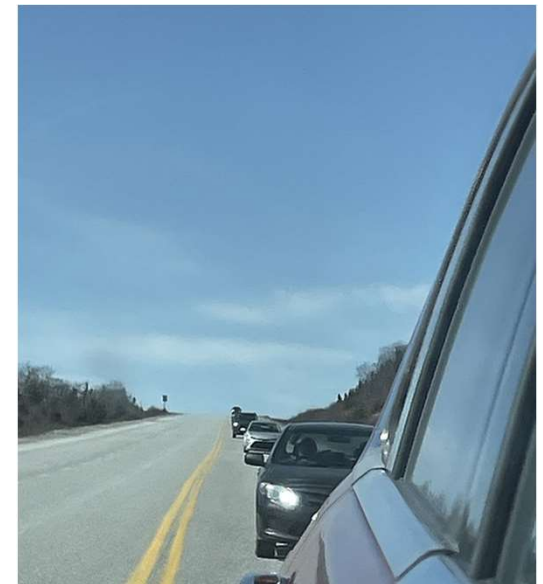
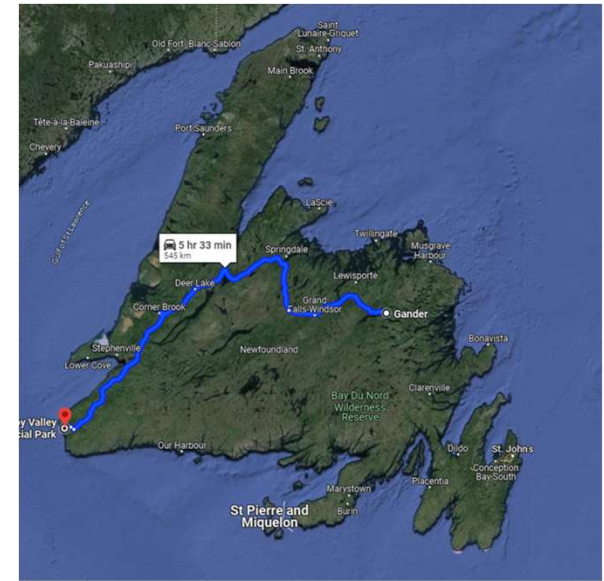
- Vendors sold out
- “Fake” / uncertified glasses appeared
- Centre & Members distributed ~1500 glasses
- Downtown merchant sold 5000+ glasses



TSE2024

April 8 - Gander and Beyond !

- Many of us decided to use Gander as a base
- Decide on Sunday if travel needed
- Start “Convoy Chase” on Monday at 7:30 AM
- Some to West Coast, some to Bay d’Espoir Hwy
- Members also went to other locations



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Eclipse Prep - Equipment, redundancy where possible

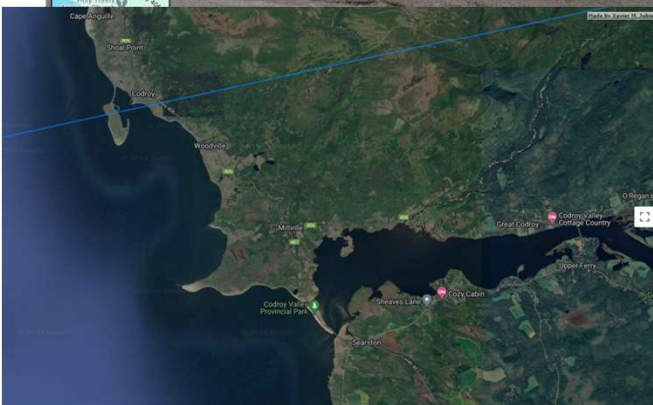
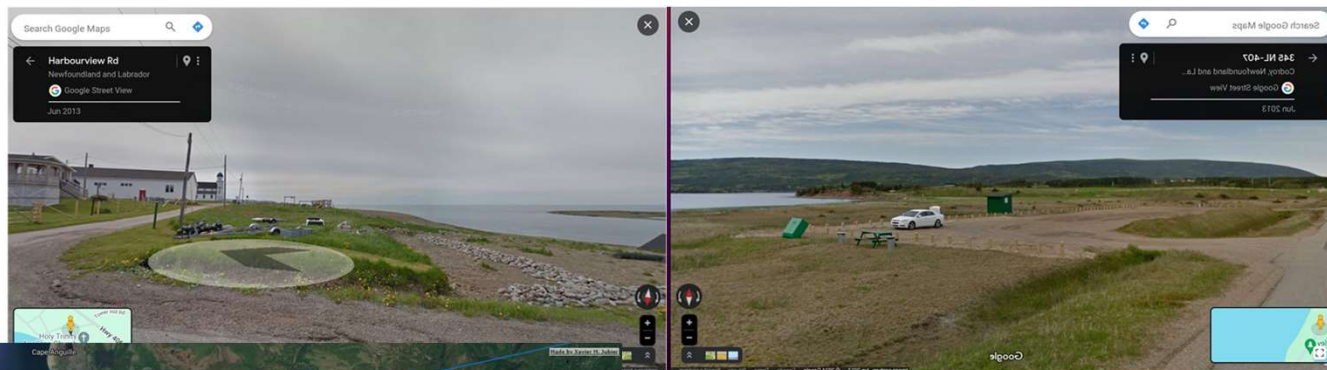


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Chaser Convoy - 11 decided to head West, ultimate destination unknown

Stops in Springdale, Stephenville Crossing, Codroy area

Glorious blue sky heading to Codroy



47° 49' 47.77" N ↔ 47.82994°	3m 04.5s (total solar eclipse)
59° 19' 58.25" W ↔ -59.33285°	3m 05.9s (lunar limb corrected)
12.0m (39ft)	
Umbral depth : 92.40% (76.5km)	
6.3km (3.9mi)	
Path width : 165.5km (102.9mi)	Magnitude at maximum : 1.02200
Obscuration : 100.00%	Moon/Sun size ratio : 1.04761
	Umbral vel. : 1.724km/s (3856 mph)
Event (ΔT=69.1s; alt=12m)	
Event	Date
Time (UT)	Alt
Azi	P
V	LC
Start of partial eclipse (C1) :	2024/04/08
Start of total eclipse (C2) :	2024/04/08
Maximum eclipse (MAX) :	2024/04/08
End of total eclipse (C3) :	2024/04/08
End of partial eclipse (C4) :	2024/04/08

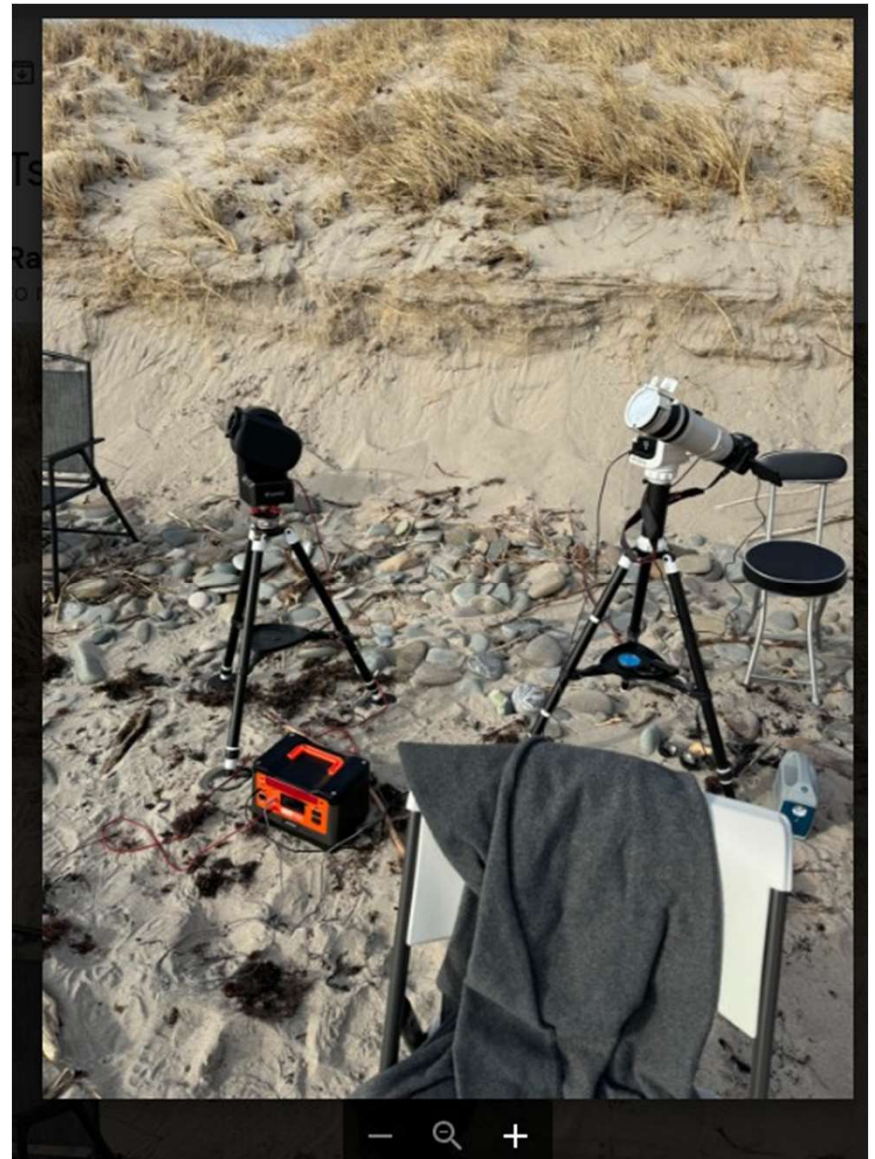


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Codroy Valley Provincial Park

Lovely Beach, warm for Early-April

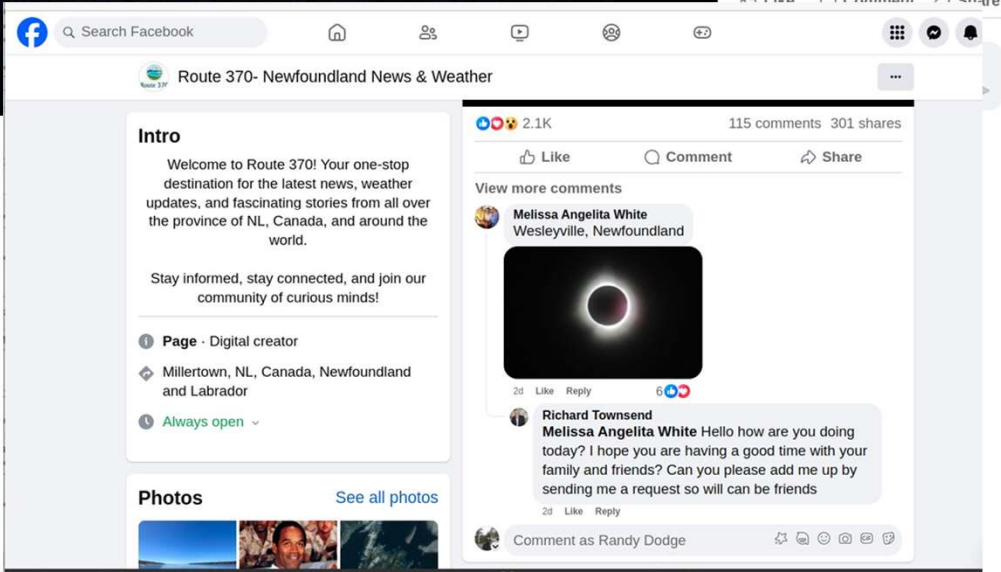
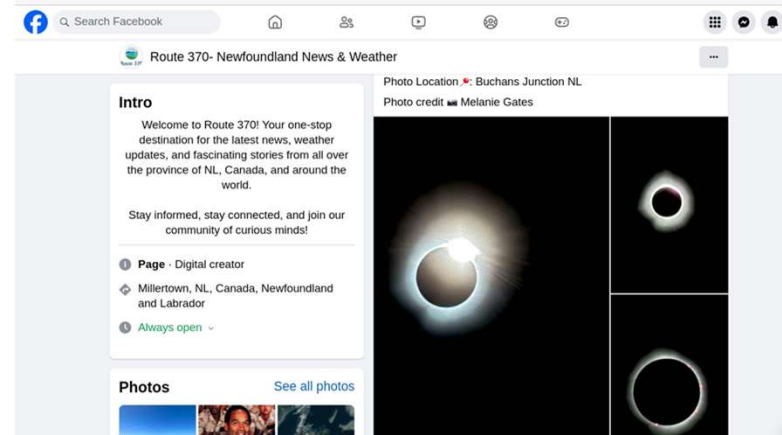
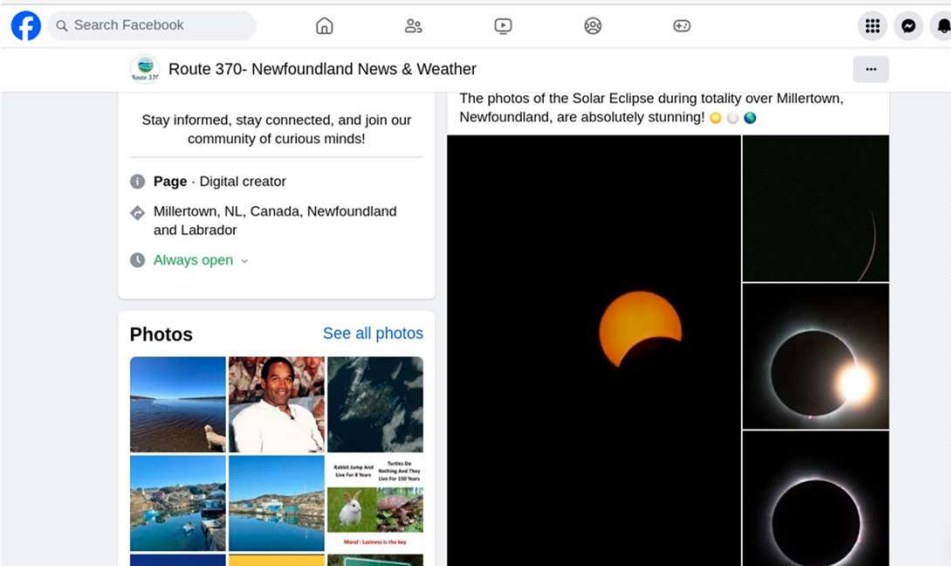
Glad I had tripod “pads”



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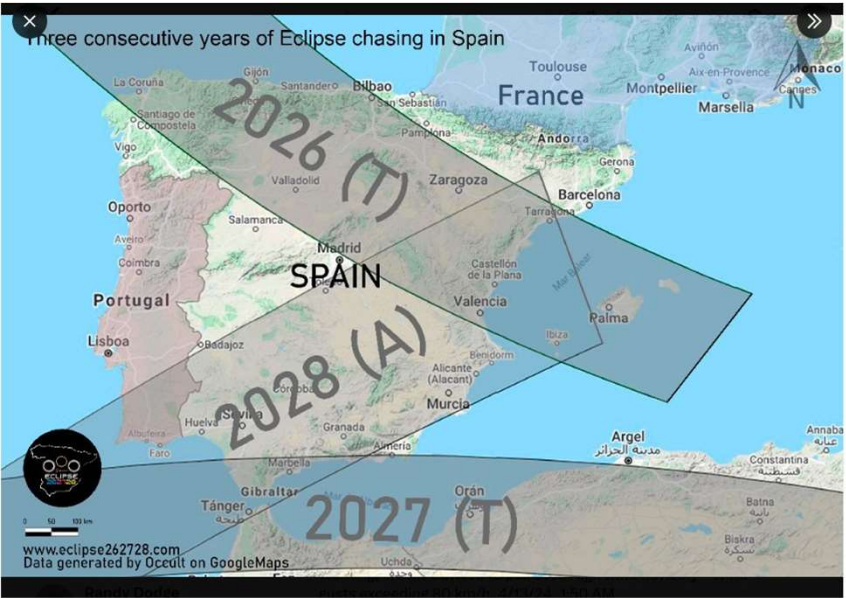


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What's Next ?



Three consecutive years of Eclipse chasing in Spain

Spain is set to become 'solar eclipse central' in the coming years, with the next total solar eclipse crossing N. Spain on August 12, 2026, another total solar eclipse on August 2, 2027 crossing the Strait of Gibraltar, and a sunset annular solar eclipse on January 26, 2028.

11:23 AM · Apr 12, 2024 · 182.4K Views

21 434 2.2K 616

Post your Reply

Lydia @lydianmodal · 4h
Wow

Samuel M @SamuelL · 10h
Also on Spain's antipode in the