

# Howard Astronomical League

November 17, 2022



# Astro Humor





# Welcoming Old and New Stars to HAL



## HAL Officers/Positions 2022

<b>President</b>	Phil Whitebloom	president@howardastro.org
<b>1st Vice President</b>	Victor Sanchez	1stvp@howardastro.org
<b>2nd Vice President</b>	Jim Tomney	2ndvp@howardastro.org
<b>Treasurer</b>	Joel Goodman	hal_treasurer@howardastro.org
<b>Secretary</b>	Yvonne Chiarelli	secretary@howardastro.org
<b>Event Coordinator</b>	Richard Ren	events@howardastro.org
<b>Publicity Chair +</b>	Hannah Broder	publicity@howardastro.org
<b>Social Media +</b>	Hannah Broder	socialmedia@howardastro.org
<b>Observatory Director *</b>	Victor Sanchez	observatory@howardastro.org
<b>Librarian +</b>	Bob Dutilly	librarian@howardastro.org
<b>ALCor +</b>	Steve Jaworiwsky	halcor@howardastro.org
<b>Webmaster *</b>	Ken Sall	Use "Contact Us" Page

\* Appointed as voting officers of the board of directors by President with board approval

+ Appointed non-voting member of the board except when position filled by an elected officer





# 2023 Board of Directors

## Nominations are Open

**Election Committee Chairperson: Jim Johnson**

If you are interested in a position, send an email to [election@howardastro.org](mailto:election@howardastro.org)

President  
First Vice President  
Second Vice President  
Treasurer  
Secretary  
Event Coordinator





# HAL Public and Members Only Star Parties



November

19

Members





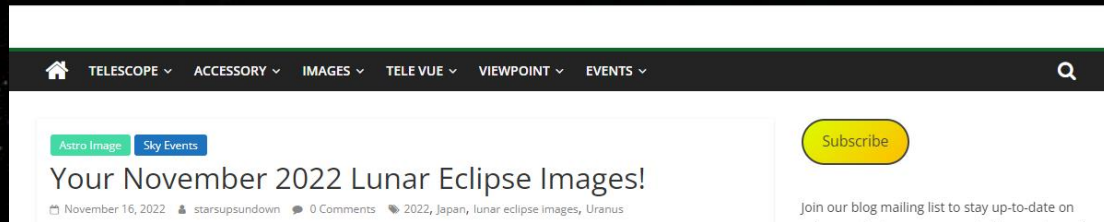
# Discord Group Image of the Month October 2022

**Congratulations  
Brad Martin**



Object: NGC 7380, the Wizard Nebula  
Imaged by: **Brad Martin**  
Image capture/processing details: 130mm refractor telescope on a monochrome camera with Hydrogen Alpha, Oxygen III and Sulphur II filters, total integration time is 30 hours  
Location: New Market, MD  
Date: October 2022





# Congratulations! Jim Johnson

On the other side of the world, while the Uranus occultation was not visible, the lunar eclipse was still a big draw for imagers. *Jim Johnson* in Ashton, MD captured this sharp image of totality with a Tele Vue-NP101is APO refractor using a Tele Vue 2x Powermate amplifier and Canon DSLR camera.



Beaver Blood Moon by flickr user Jim Johnson. All rights reserved. Used by permission. Great capture using Tele Vue-NP101is with Tele Vue 2x Powermate image amplifier and Canon EOS 60Da DSLR on Losmandy G11 mount. Exposure was 0.3-sec at ISO 3200 from Ashton, MD.



# HAL Congratulates the Artemis I Team





# James Webb Space Telescope



The protostar within the dark cloud L1527, shown in this image from NASA's James Webb Space Telescope Near-Infrared Camera (NIRCam), is embedded within a cloud of material feeding its growth. Ejections from the star have cleared out cavities above and below it, whose boundaries glow orange and blue in this infrared view. The upper central region displays bubble-like shapes due to stellar "burps," or sporadic ejections.

***Credits: NASA, ESA, CSA, and STScI. Image processing: J. DePasquale, A. Pagan, and A. Koekemoer (STScI)***

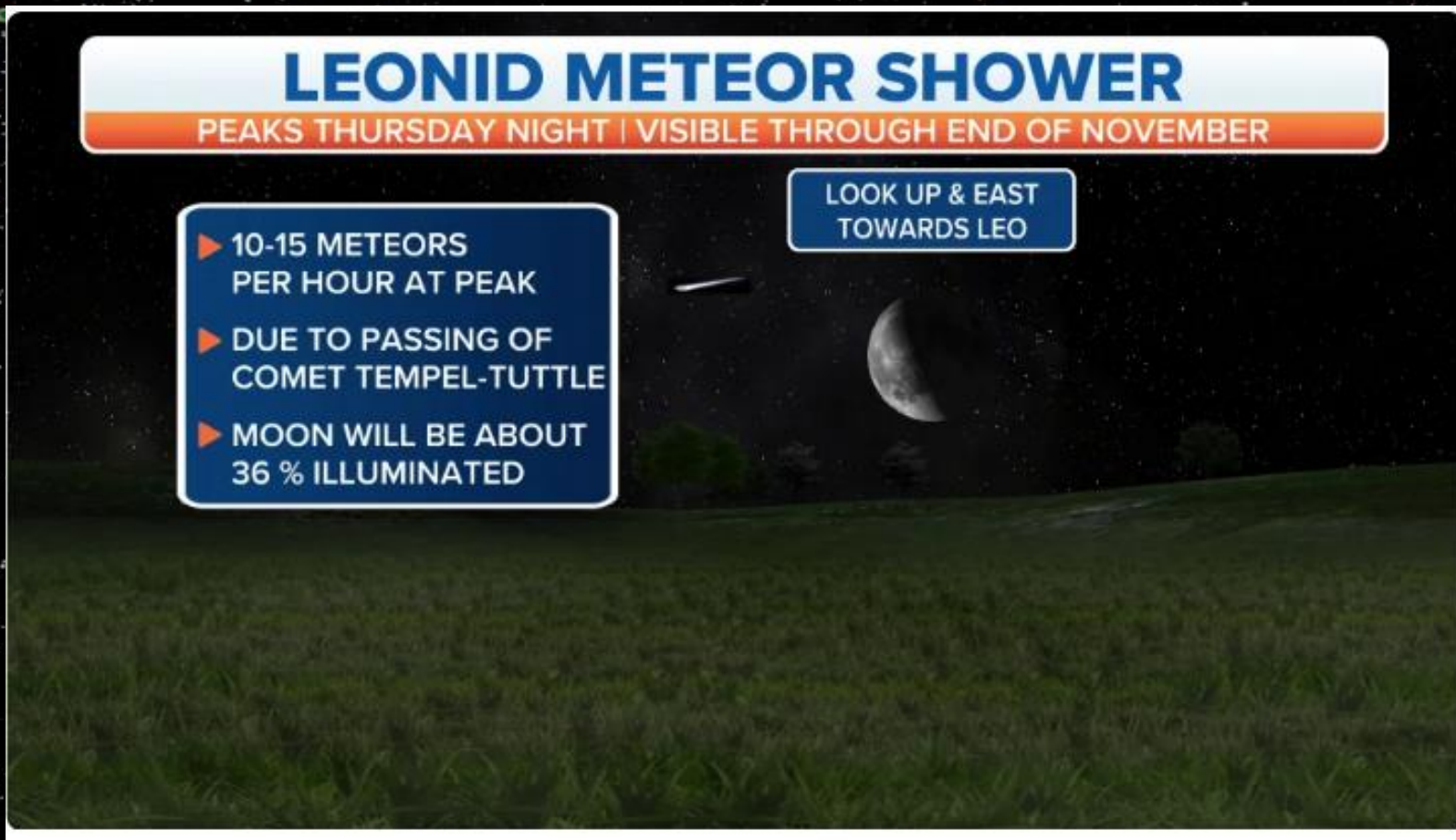


# LEONID METEOR SHOWER

PEAKS THURSDAY NIGHT | VISIBLE THROUGH END OF NOVEMBER

- ▶ 10-15 METEORS PER HOUR AT PEAK
- ▶ DUE TO PASSING OF COMET TEMPEL-TUTTLE
- ▶ MOON WILL BE ABOUT 36 % ILLUMINATED

LOOK UP & EAST  
TOWARDS LEO







astronomybasics • Follow



astronomybasics "Devils Horns" sunrise captured in Qatar, during a partial eclipse during sunrise. Have you seen this before? Mention someone who would love this! 🤖

Follow my page?

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@astronomybasics

Why you should consider follow our page.

Our page is about research and educational purposes only, we promote, advance, and educate about space science, which includes: astronomy, astrophysics, cosmology, astrobiology, physics, and more!

Please consider following our page to



254,582 likes

1 DAY AGO



Add a comment...

Post



# Cometary DUIs: Detected Under the Influence (of the Sun, that is)

**Dr. Lori Feaga**

**Research Professor at University of Maryland**

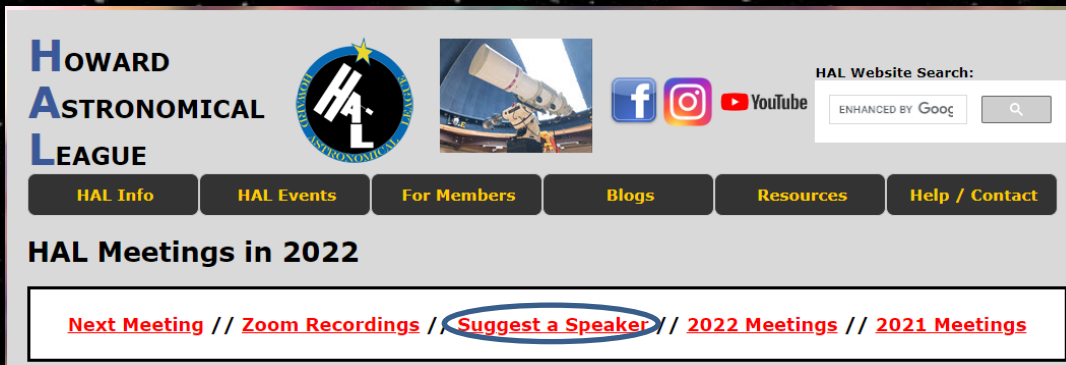









# Do you know a future HAL Presenter?

Let us know:  
<https://bit.ly/HALspeaker>

You can also find the link on  
the HAL website under HAL Events  
In the Our Meetings section



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HAL Meetings in 2022

[Next Meeting](#) // [Zoom Recordings](#) // [Suggest a Speaker](#) // [2022 Meetings](#) // [2021 Meetings](#)

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## HAL Speaker Suggestion Form

For HAL members or public to recommend an astronomy-related speaker for a future General Meeting (third Thursday every month).

NOTE: Only a few fields below are required, as denoted by a red asterisk.

[Sign in to Google](#) to save your progress. [Learn more](#)

\* Required

Your Name \*

Your answer

Your Email \*

Your answer

Suggested Speaker's Name \*

Your answer



# Your WebMaster Ken Sall



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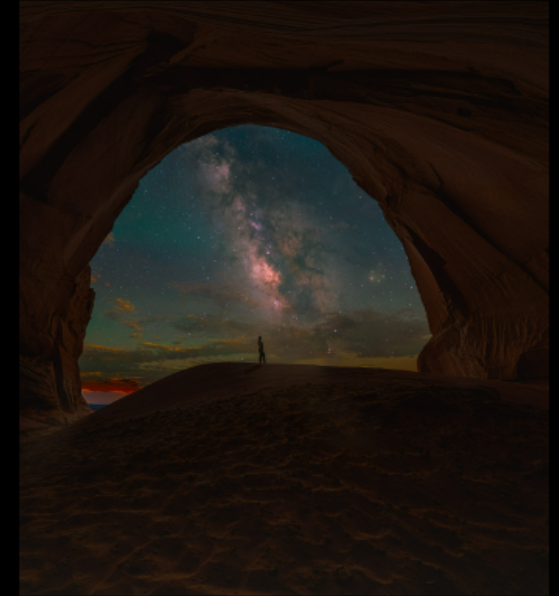
Help / Contact

## Featured:

- September's winning [Object of the Month](#) as selected by our Discord users
- [Recent Star Party Reports](#)
- [Presentation and Video Recording](#) from our September General Meeting: [Al Nagler, Tele Vue Optics - I Thank My Lucky Stars](#)
- [September Public Star Party Report and Photos](#)
- [2022 Star Party Schedule](#)
- Updated [HAL Covid Policy](#) a la Howard County
- Links for [HAL's Instagram](#) account
- HAL's [YouTube](#) channel.

## Upcoming HAL and Non-HAL Events

- **October 20:** HAL General Meeting at 7pm (open to the public). Topic: [What Is The Best Telescope For You?](#) See below for [Zoom info for General Meeting](#).
- **October 22:** HAL Members-only Star Party [\[Read more...\]](#)
- **November 5:** HAL Public Star Party (last public SP this year) [\[Read more...\]](#)
- **November 7:** HAL Planning Meeting (members welcome) [Login for Zoom link](#) (available early November)
- **November 17:** HAL General Meeting at 7pm (open to the public). Topic: [Cometary DUIs: Detected Under the Influence \(of the Sun, that is\)](#)
- **November 19:** HAL Members-only Star Party



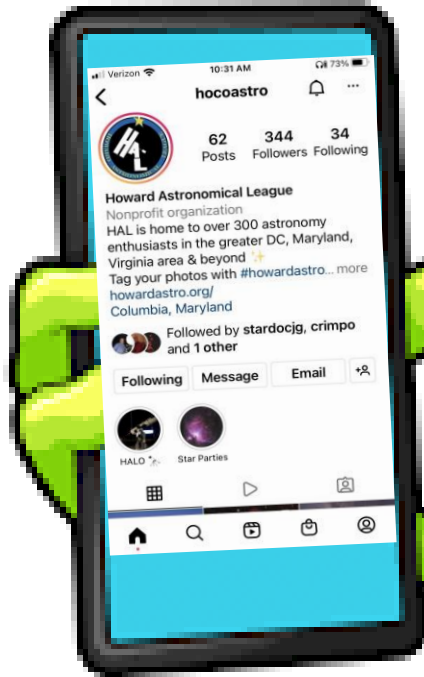
- [JWST Blog](#)
- [Cosmic Targets for Webb Telescope's First Images](#)
- [Comparison: Webb vs Hubble Telescope](#)
- [FAQ Lite Webb Telescope](#)







Disclaimer: Any resemblance to a current or past member of HAL is strictly coincidental.



Instagram

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## HAL Instagram Submission Form

Make sure to fill out the necessary fields for your image(s) to be featured on the Howard Astronomical League Instagram account! Contact Hannah Broder at [hannaharb36@gmail.com](mailto:hannaharb36@gmail.com) with any questions.

Your\_account.com

[Switch account](#)



The name and photo associated with your Google account will be recorded when you upload files and submit this form. Only the email you enter is part of your response.

\* Required

Email \*

Your email

Name \*

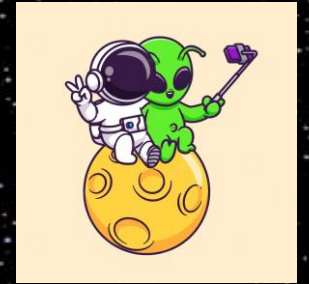
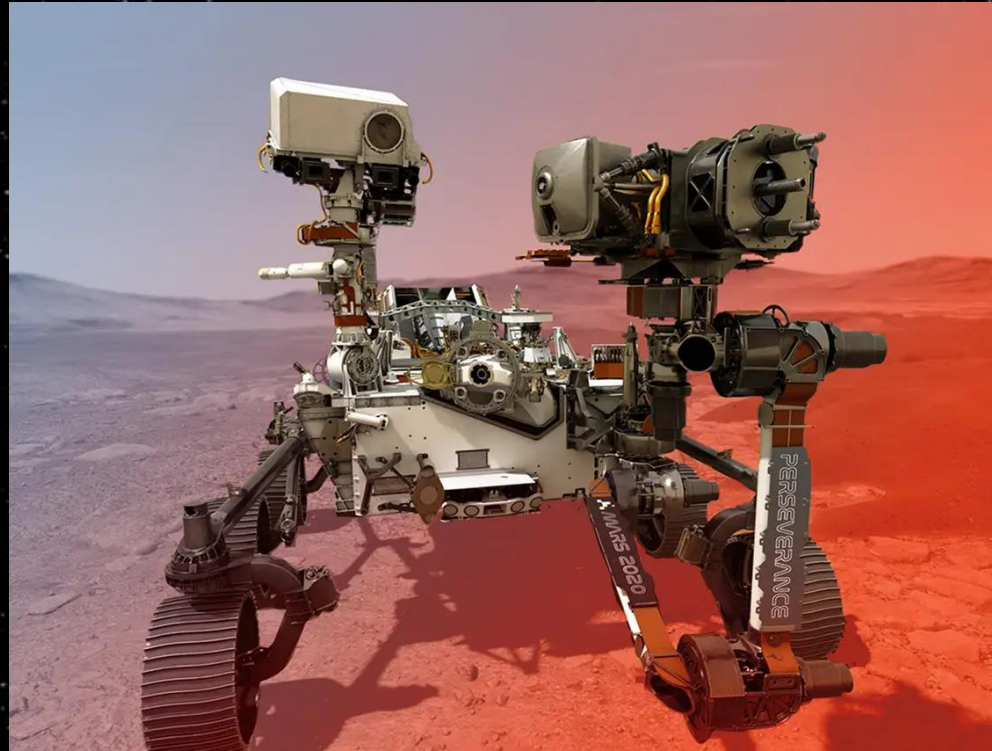
Your answer

Upload your image below \*

[Add file](#)



# HAL Astro-Images, Sketches, and More







Uranus (5.6)

HD 18357 (6.9)

HD 17918 (6.3)

40 Ari (5.8)

Pi Ari (5.3)

HD 18144 (7.4)



36 Ari (6.4)

Sigma Ari (5.5)

HD 17176 (7.2)

HD 17414 (6.7)

HD 17369 (7.5)

Omicron Ari (5.8)



Arjun Meenashi Sundar



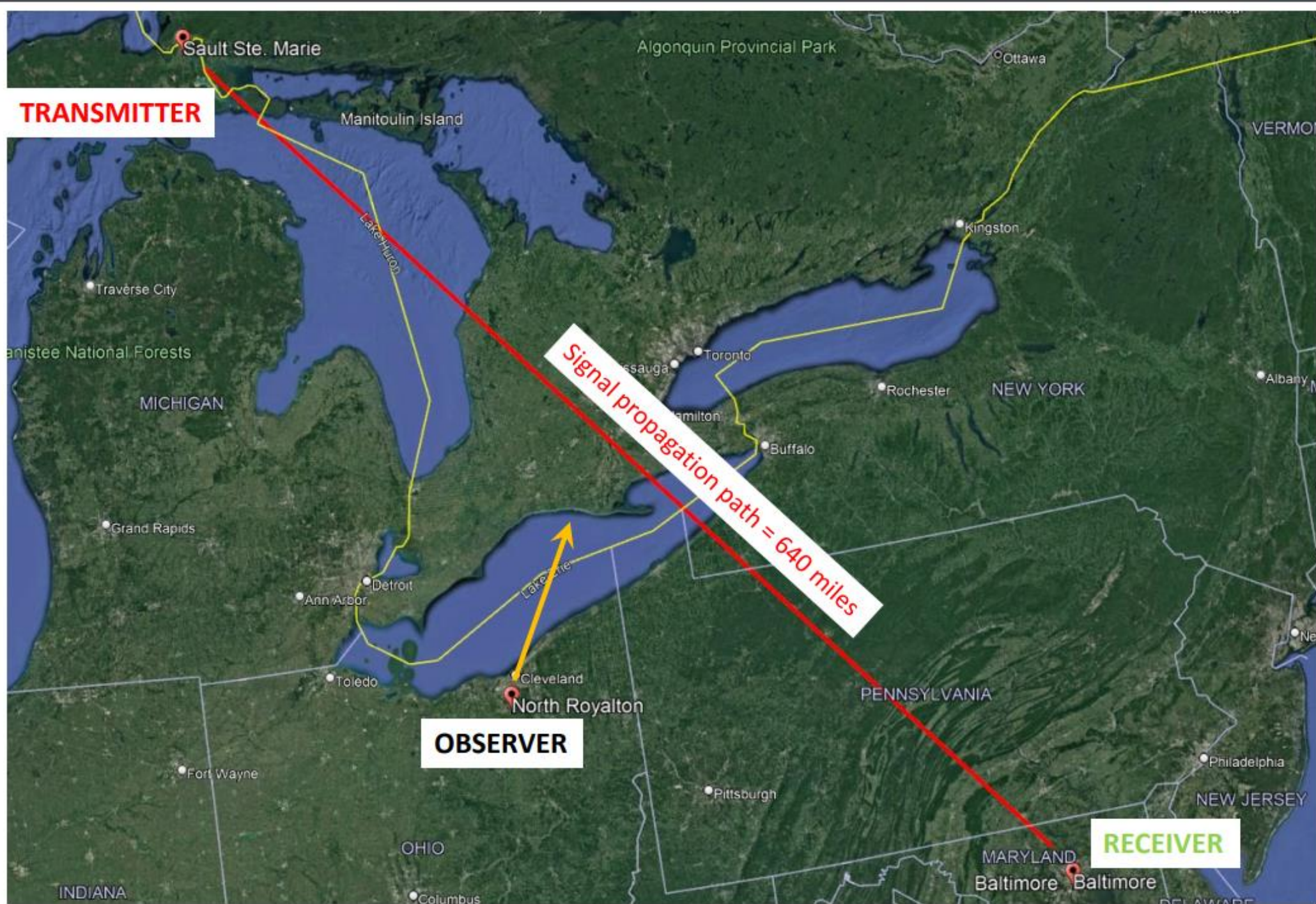
# International Meteor Organization | Event #2022-7659

Visual observation | North Royalton, Ohio | 2022-10-25 04:52:00 EDT | Duration = 3 seconds | Azimuth = 30 deg





# Path Profile

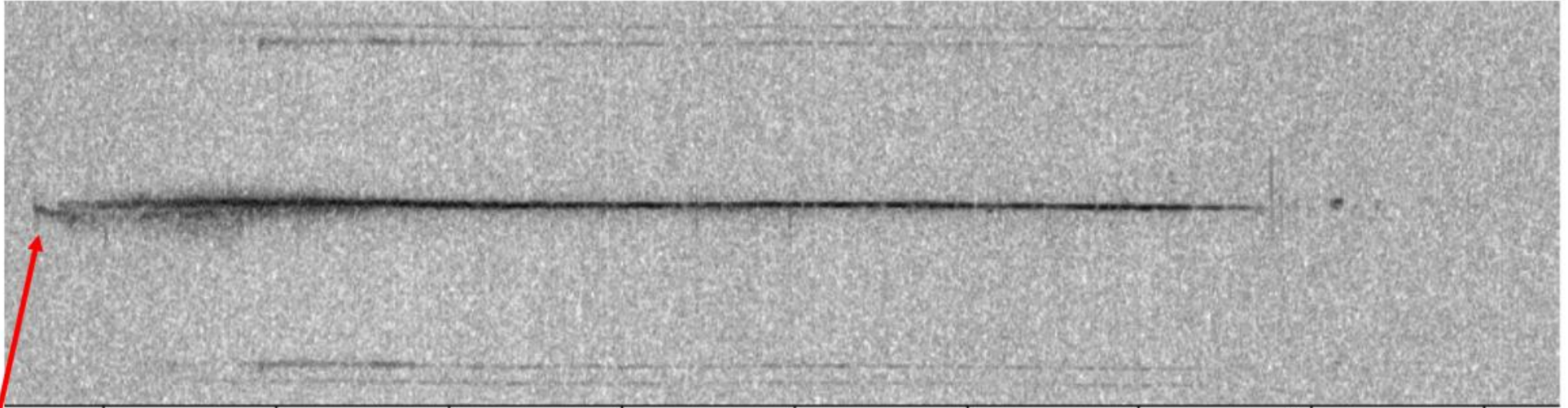




# Analog TV video carrier reception

Transmitter = Station CHBX | 55.240 MHz | Sault Ste. Marie, Ontario, Canada

Receiver = Anne Arundel County, Maryland



2022-10-25 5:01:26 Centre 740 Hz Width 150 Hz Frequency 55.240 MHz R7000 SSB Advantage60 330az

2022-10-25 04:52:30 EDT

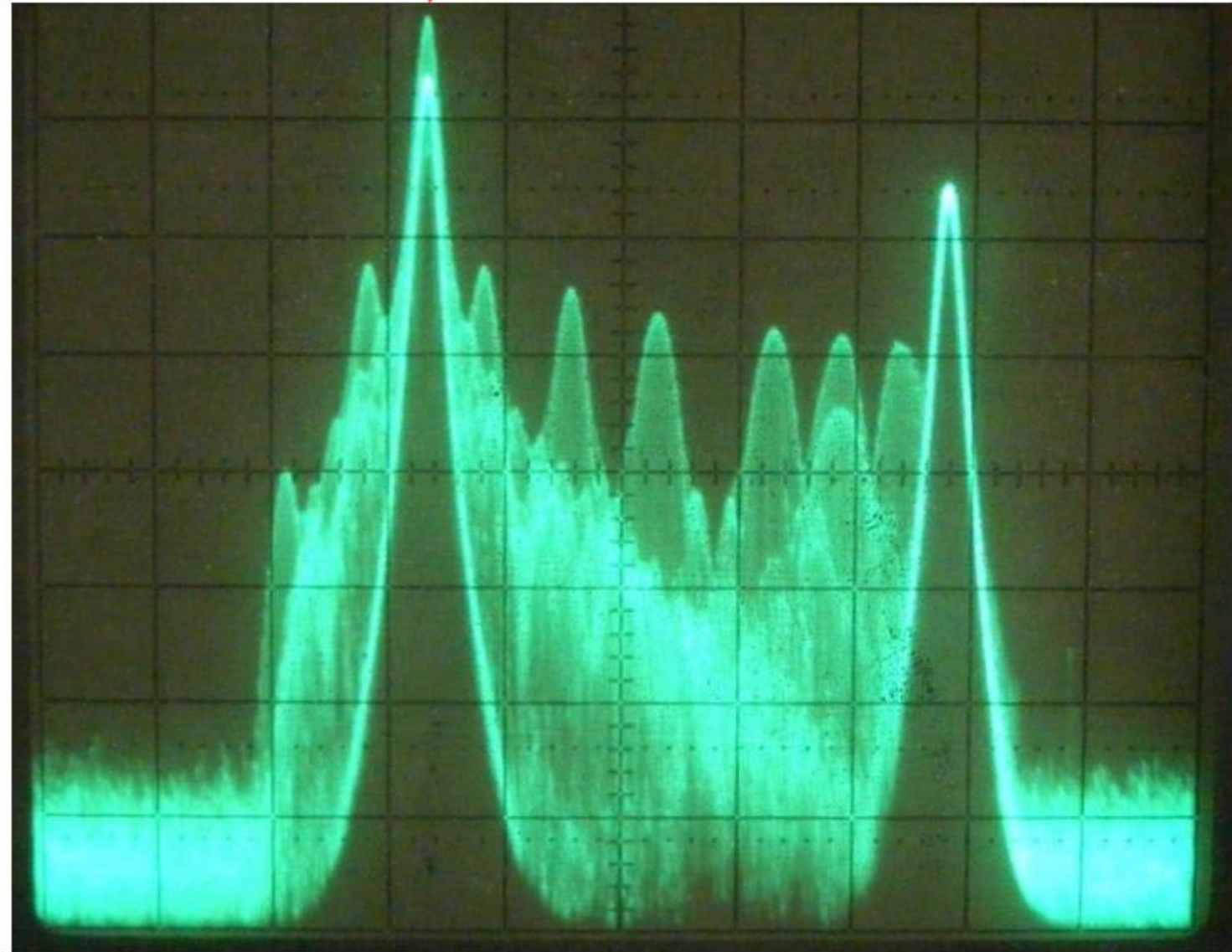
Duration = 7 minutes

Video carrier



Analog TV Signal

The video carrier is received from distant station



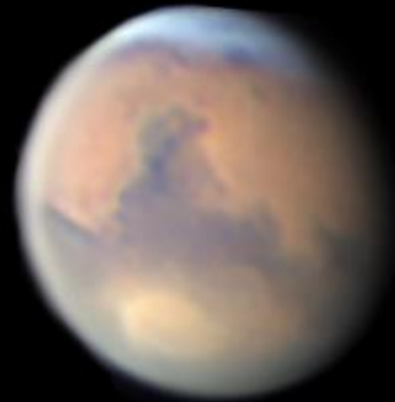




**WinJupos Simulation**

**Ganymede November 10th @213.2UT**

**@JamesWillinghan**



CM  
Elev: CM: 274.0  
Elk: Elevation: 75 Degrees  
Elkridge, Maryland USA/Meade 12" LX200/ ASI 174MM

October 30th 2022 @0811.1UT  
@JamesWillinghan

November 10th 2022 @0537.3UT  
@JamesWillinghan



14 November 2022 03:05 UT



$$L_s = 339^\circ$$

$$D_e = -0.8^\circ$$

$$D_s = -8.9^\circ$$

$$C_M = 55^\circ$$

$$\text{Dia} = 16.5''$$

$$\text{Seeing} = 7$$

25w

20-inch f/6.4  
Bowie, MD  
Bob Bunge

280x  
340x  
680x

# Flame & Horsehead

## Emission & Dark Nebulae

Constellation: Orion

Date: 02-November-2022

Time: 01:45 to 03:15 EDT

Location: Deck of House

Drawing by: Richard Orr

Telescope: 155mm refractor

Eyepiece: 55mm Plossl converted to 67mm (16x)

Night Vision: TNVC-Tele Vue System

Filter: Hydrogen-Alpha (6nm)

Field of View: 2.5 degrees

Orientation: Diagonal View







*Soul Nebula (SH2-199) - 2 Hrs HaQIII RGB - 8" f/4 - QHY268*

Gene Handler



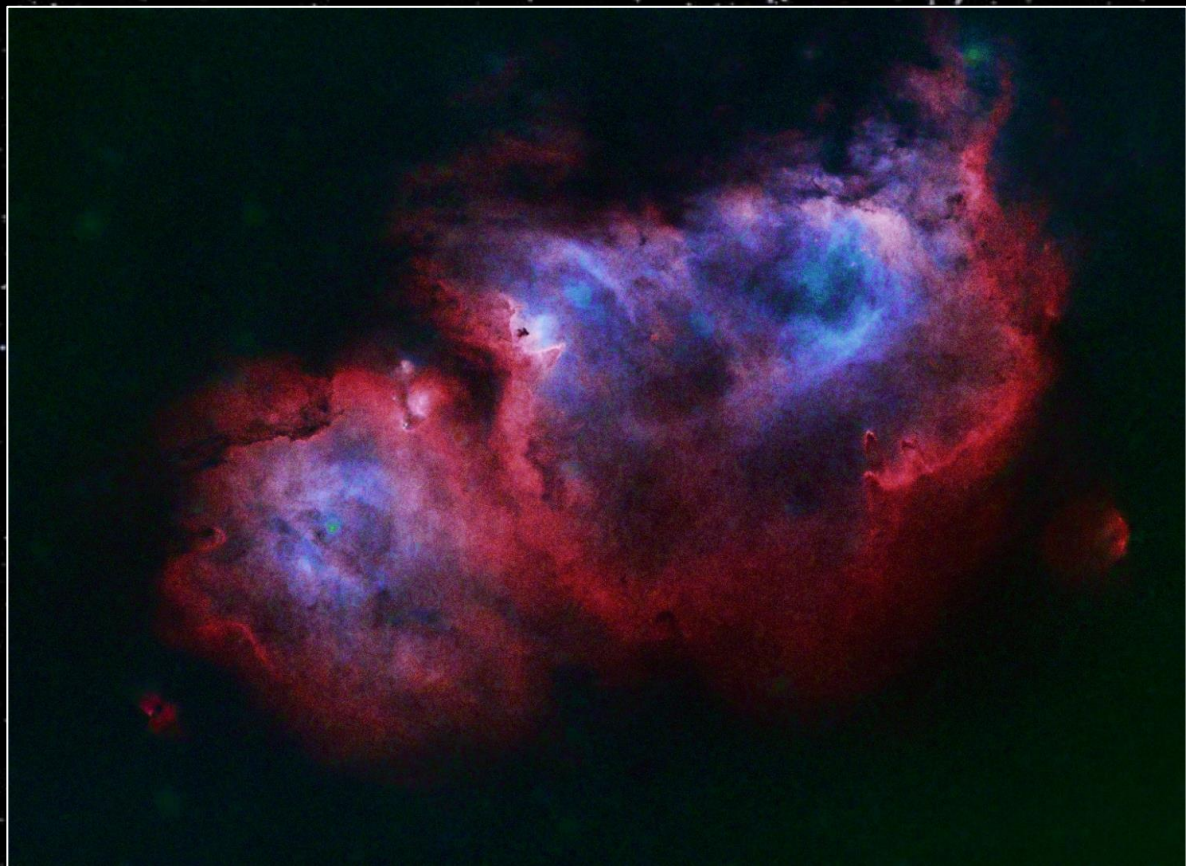




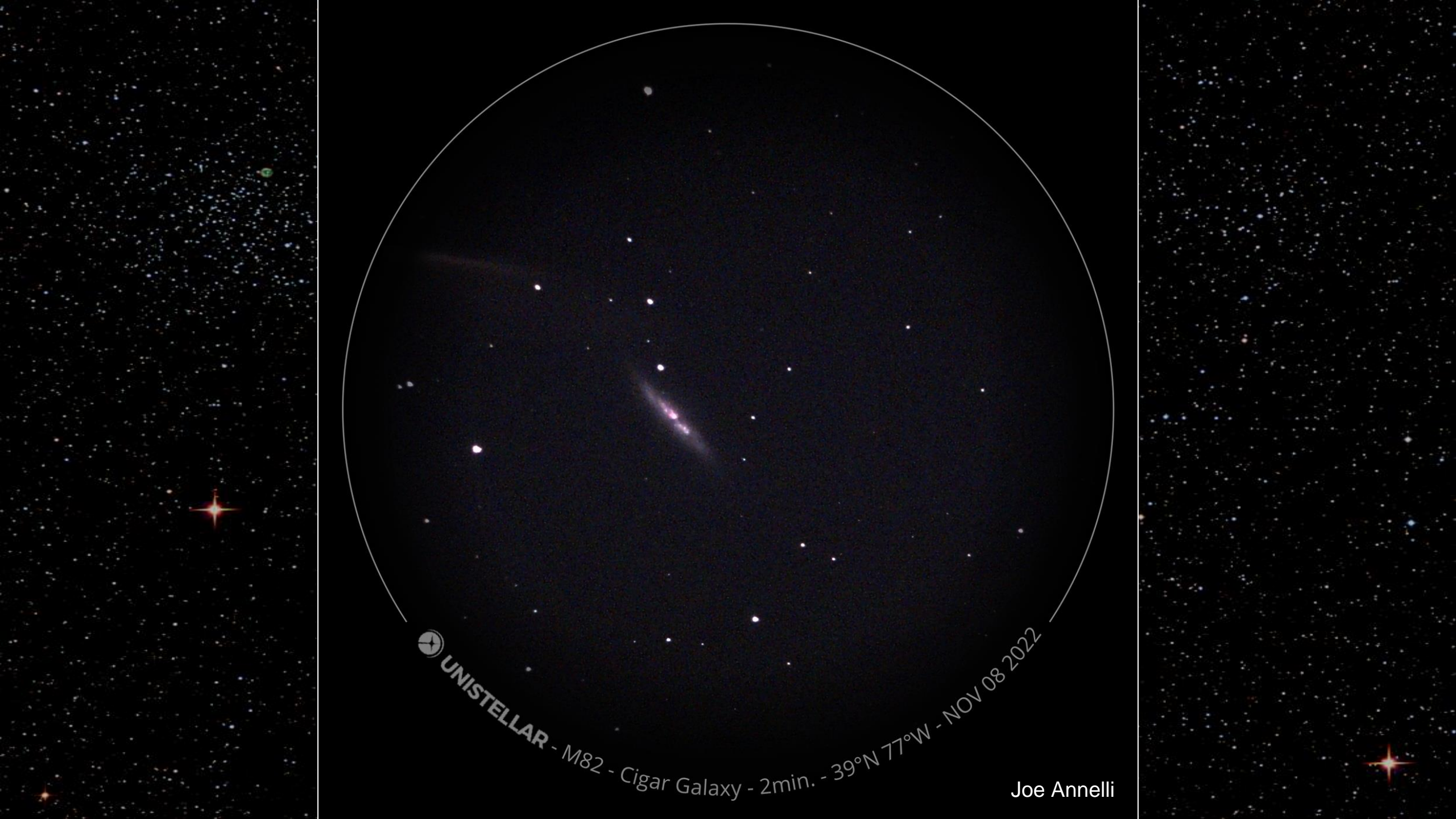
*NGC 7293 - Helix Nebula - 4.9 Hrs HaOIII RGB - 8" f/4 - QHY268 - Staunton River State Park, VA*

Gene Handler









 UNISTELLAR - M82 - Cigar Galaxy - 2min. - 39°N 77°W - NOV 08 2022

Joe Anelli

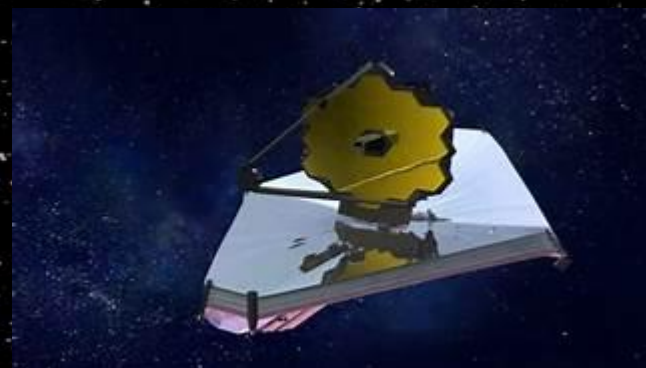




UNISTELLAR - 2h 47m 47.22s/+16° 7' 32.9" - 17.56ms - 39°N 77°W - NOV 08 2022

Joe Anelli

# Thank You



# CLEAR SKIES!