

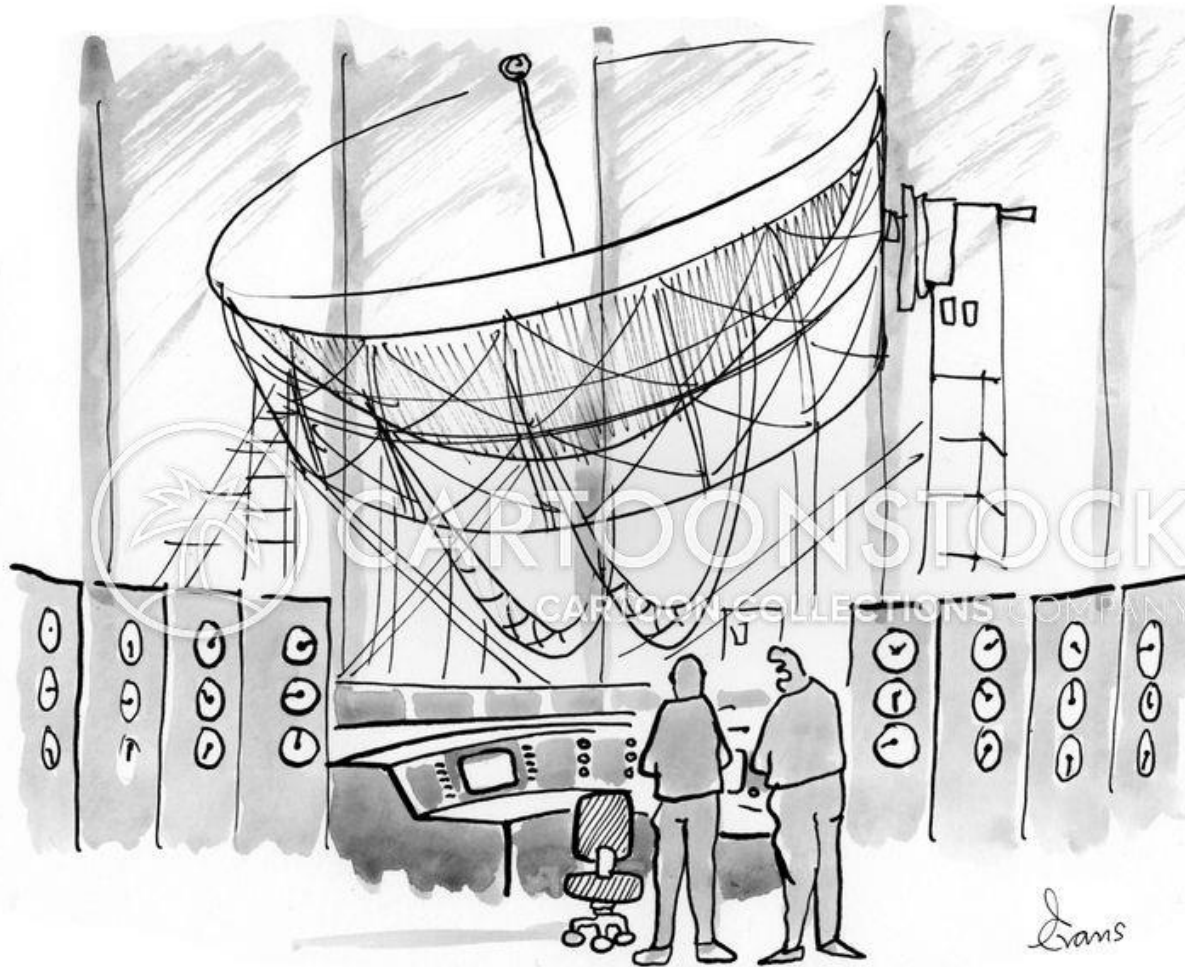
# Howard Astronomical League



April 15, 2021

# Astro Humor

CS354633

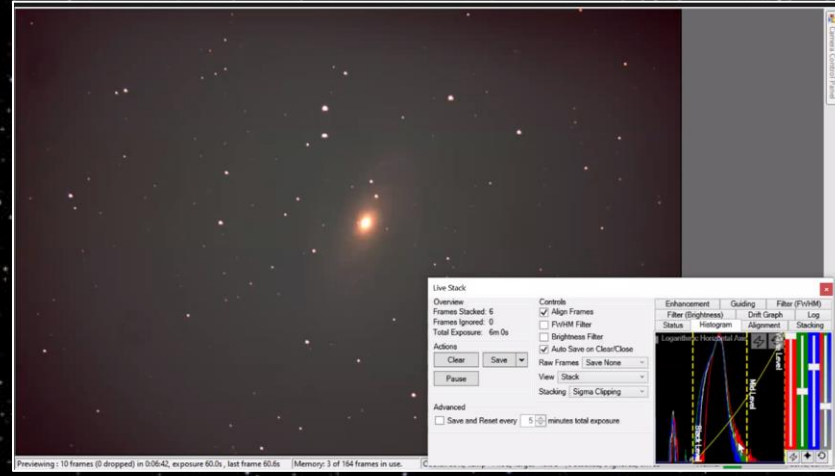
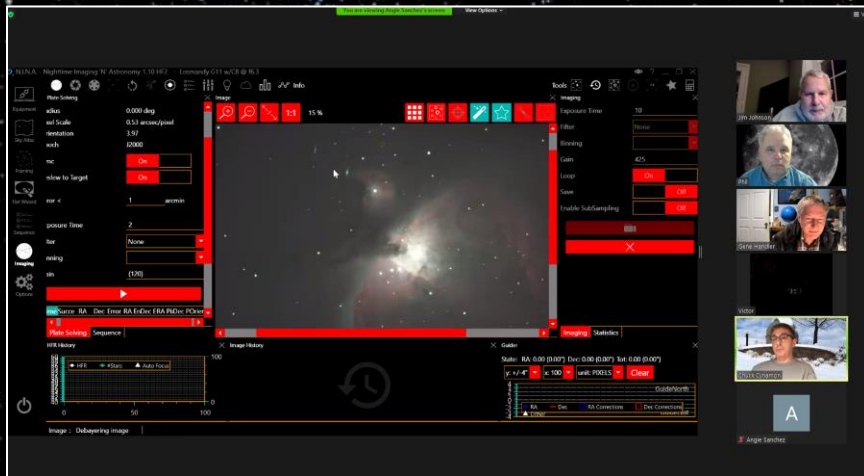


“What d’you say to a massive Szechuan-style wok fry-up before we start?”

# Welcome New Members and Guests



# Public Star Party - Virtual



**This Saturday Night  
8:00PM**

**Starring  
Gene Handler  
Chuck Cynamon  
Brad Martin  
Jim Johnson  
Corey Koval**

# HAL Public Star Parties

(Virtual and hopefully soon in-person)

Month	Date	Invitees
March	13	Members
March	20	Public
April	10	Members
April	17	Public
May	8	Members
May	22	Public
June	5	Members
June	19	Public
July	3	Members
July	17	Public
August	7	Members
August	14	Public
September	4	Members
September	11	Public
October	2	Members
October	16	Public
October	30	Members
November	13	Public



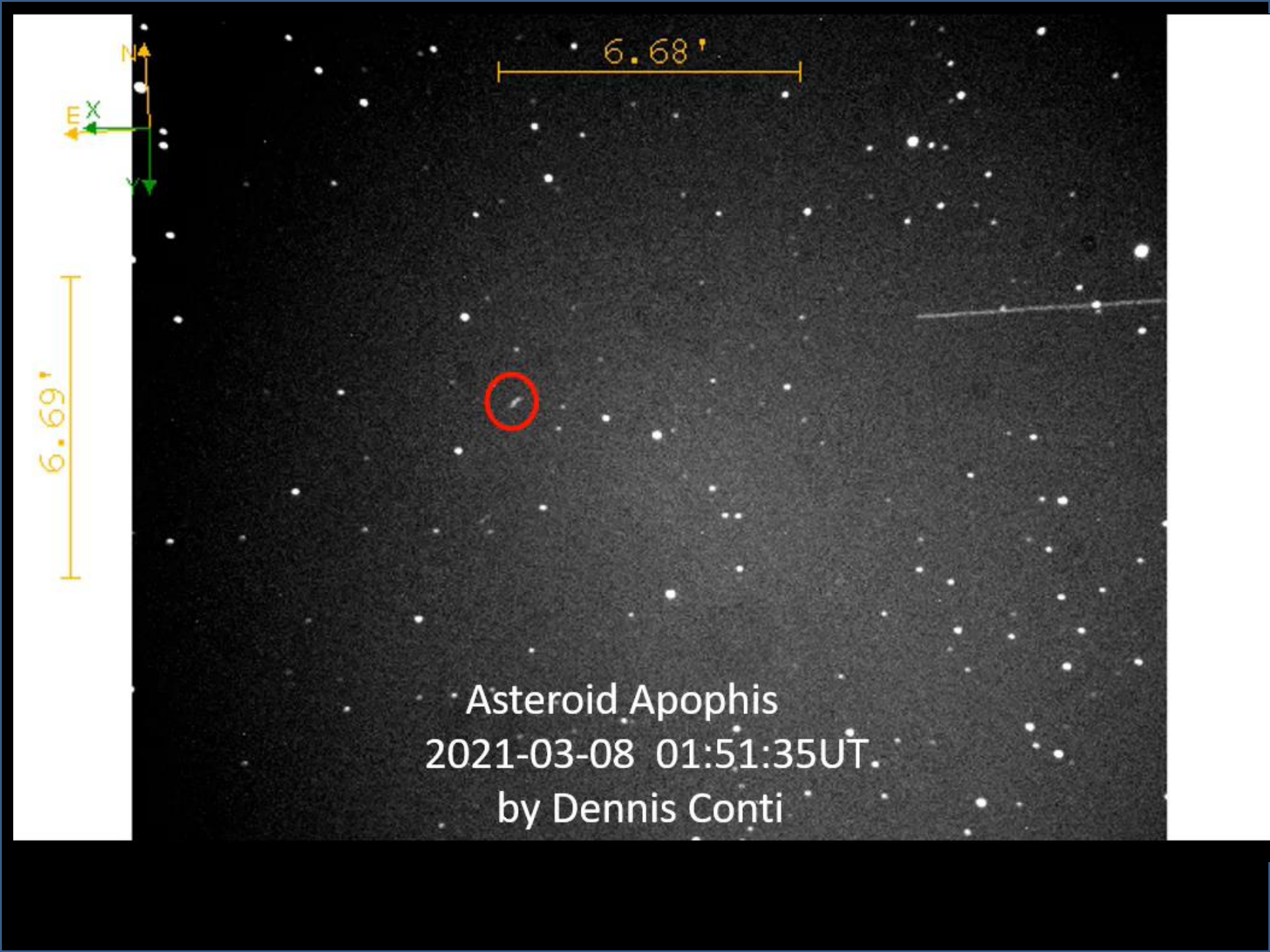
# Impromptu Star Parties

Alpha Ridge is open for a keyholder to call an Impromptu with the following provisions:

- 1) HALO will remain closed, except to the keyholder to turn off/on the parking lot and restroom lights and to turn on power to the exterior SE corner of HALO.
- 2) The restrooms are open.
- 3) The keyholder is responsible for closing the gate after entering and keeping lock separately until locking up at the end of the observing session.
- 4) Members will be informed that the gate is being left closed except for entry and exit. Members will be asked to open the gate inwards and close the gate behind them upon arrival and to repeat the routine upon departure.
- 5) Members will be reminded that all social distancing protocols currently called for in Howard County will be in effect.

# HALO Maintenance





Asteroid Apophis  
2021-03-08 01:51:35UT  
by Dennis Conti

# Tonight's Guest Presenter



Sue Ann Heatherly  
Senior Education Officer  
Green Bank Observatory



Topic: Green Bank Telescope  
and Radio Astronomy

# May HAL Meeting

## May 20th



# Officer Reports

## HAL Officers/Positions 2021

<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>	David Stein	events@howardastro.org
<b>Publicity Chair +</b>	Joel Goodman	halpublicity@howardastro.org
<b>Observatory Director *</b>	Dale Ghent	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

# HAL Members Astro Art And Projects





*Heart & Soul Nebula (3-frame mosaic)  
4" refractor & SX-46 CCD camera (~55 hours total)  
narrowband, modified Hubble palette  
Brad Sheard, Ellicott City, MD*



## **The Moon - Crater Thales**

Jim Johnson, Ashton MD

2021-03-23 0015 UTC

ZWO ASI290MM

Losmandy G11

Meade LX850



Victor Sanchez – M51



*IC 405 - Flaming Star Nebula in Auriga - 2.5 Hrs H $\alpha$  RGB - 8" f/4 - 8300*



*NGC 2359 - Thor's Helmet - 7.7 Hrs. Ha RGB - 8" f/4 - 8300*



*NGC 2903 - Galaxy in Leo - 8.5 Hrs LRGB - 8" f/4 - 8300*

M81 - Bode's Galaxy  
March, 2021



© Steve Rifkin, 2021



## M35 and NGC 2158, Open Clusters in Gemini

M35 is a young cluster (100-200 million years old) that checks in at magnitude 5.3, spanning about size of full Moon and lying 3,870 ly out.

NGC 2158 is a smaller, older open cluster ~2 billion years old. It's a background object lying about another 9K ly farther out. It's easy to see why it was at first thought to be a globular cluster.

Just shy of 20 minutes worth of subs taken  
March 29, 2021 from Towson, MD (Bortle 8)

- ✓ Vixen 80mm f7.5 refractor on CGX-L Mount
- ✓ Canon Rebel t6s camera
- ✓ Processing:
  - DeepSkyStacker
  - PixInsight
  - Topaz AI DeNoise
  - StarSpikes Pro

*Jim Tomney*



Brad Martin – M13



Brad Martin – M101



Brad Martin – M51



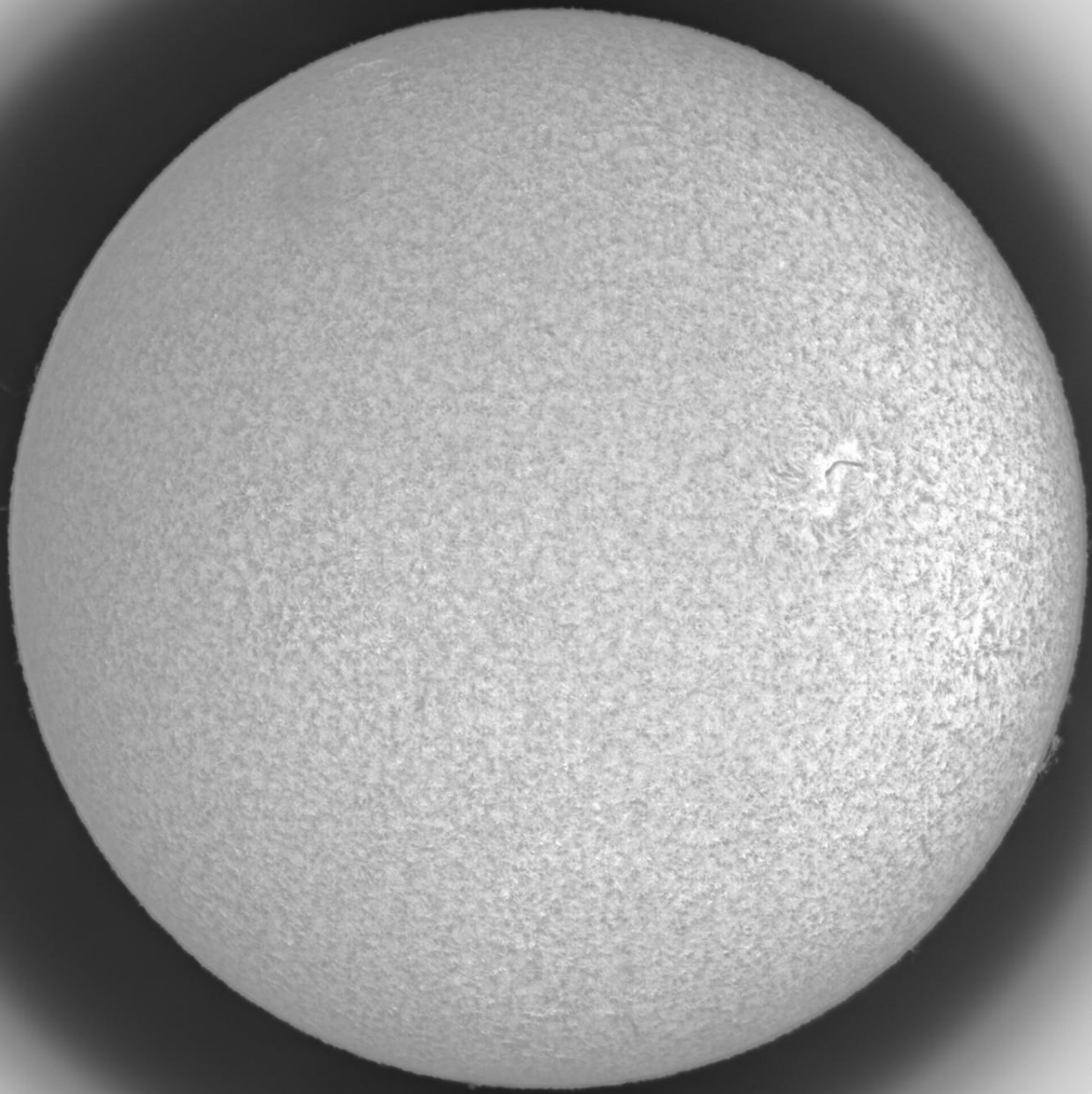
Brad Martin – Mons Hansteen



Brad Martin – Moon

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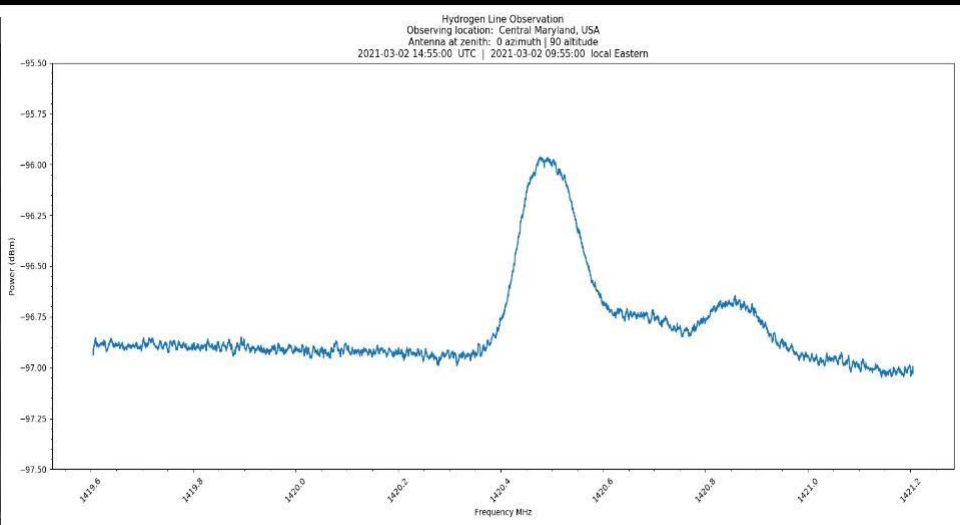
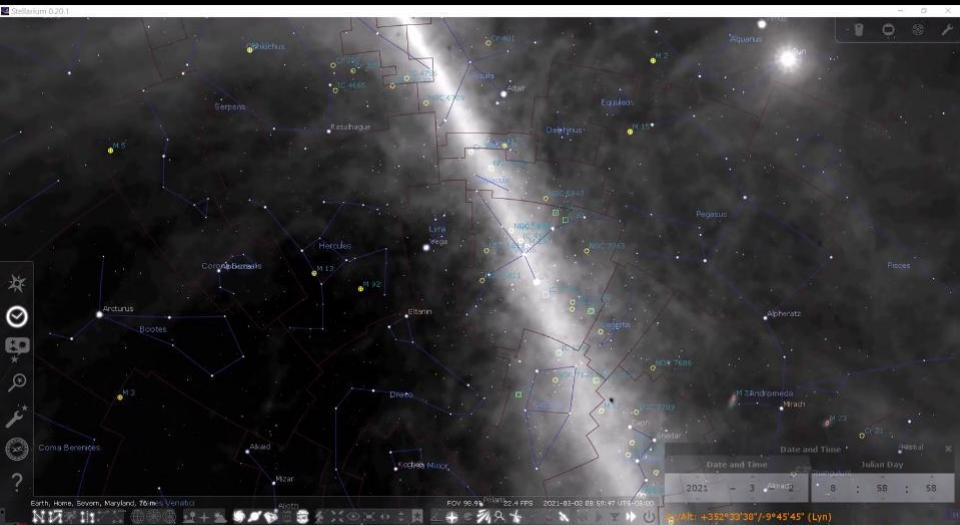
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Our Sun  
March 20th, 2021  
*by Phil Whitebloom.*



Phil Whitebloom



Thank You

CLEAR SKIES!  
STAY HEALTHY!