

# Wouldn't It Be Fun to Have Access to the Hubble or Webb Telescope?

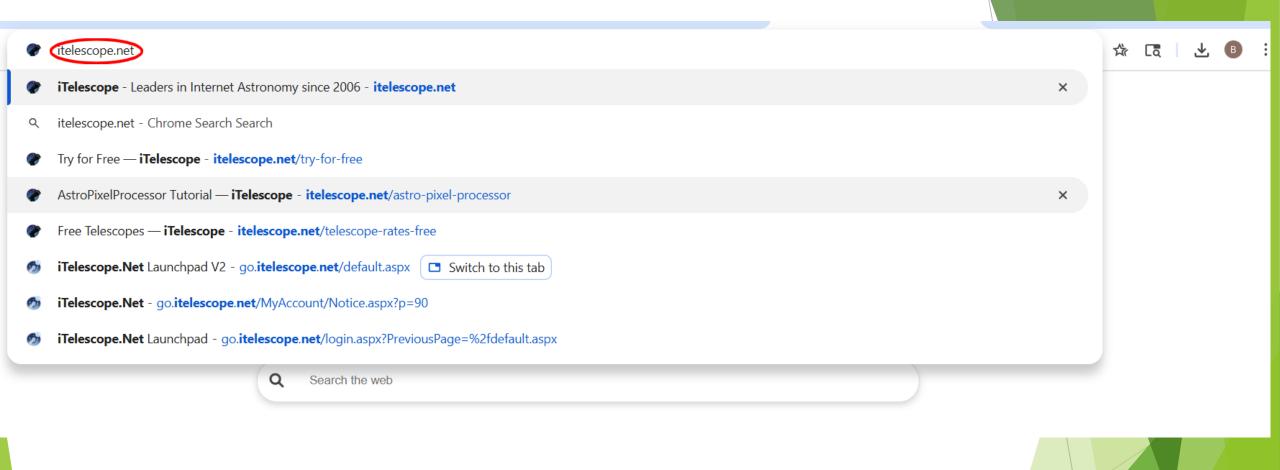
- Qualified principal investigators
- ▶ Proposals reviewed, selected, & scheduled
- Data (UV thru near-IR) is captured & stored
- Data is proprietary to PI for 1 year then typically released to the public
- Hubble Legacy Archive <a href="https://hla.stsci.edu/">https://hla.stsci.edu/</a> This site gives the public access to archived Hubble camera image data

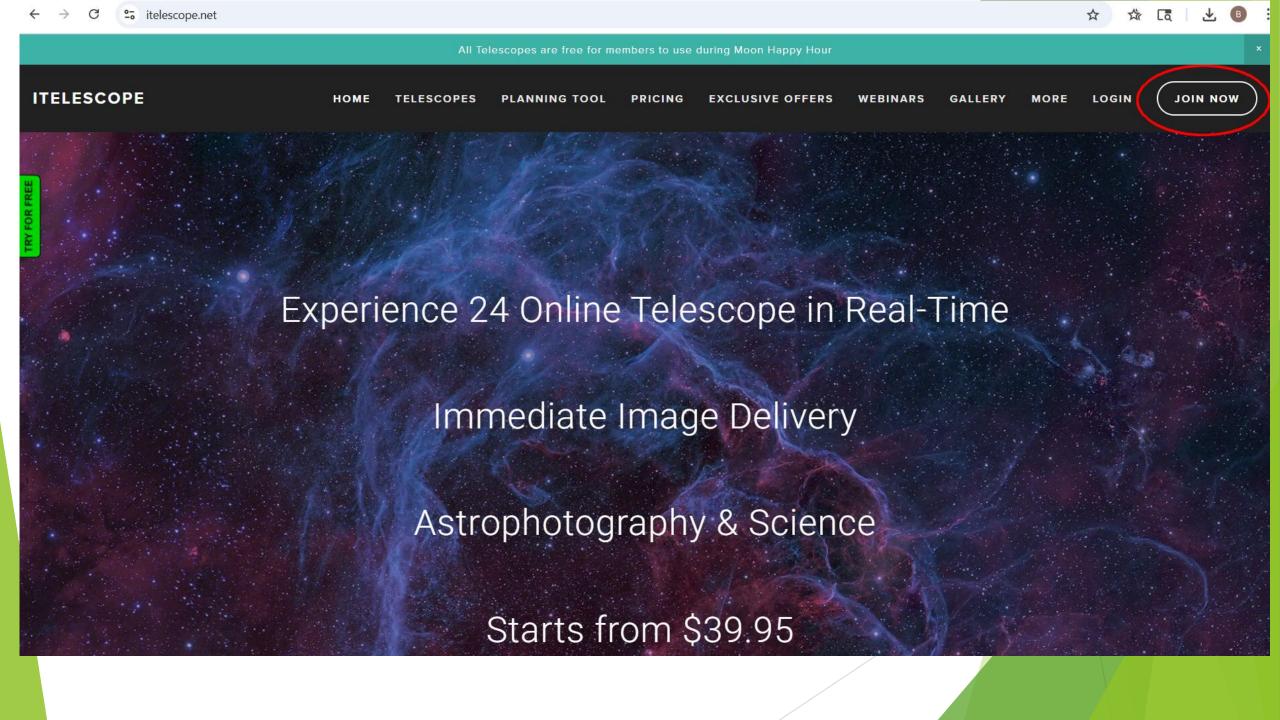
# You Do Have Access to Ground Based Professional Grade Telescopes!

- Public access to 24 telescopes at <a href="https://www.itelescope.net/">https://www.itelescope.net/</a>
- ► Telescopes located in U.S., Spain, Chile, & Australia
- Free trial access
- Monthly memberships from \$39.95
- Data stored on FTP server <a href="https://data.itelescope.net/">https://data.itelescope.net/</a>

# iTelescope Free Trial Access & Membership Access

- Register at iTelescope.net for ID & password, no credit card
- Gives 'limited view only' access to all telescopes
- ► Three free live demo telescope sessions on T68 (U.S.) & T33 (Australia)
- T68 is a Celestron 11" RASA with a One-Shot Color camera located in Beryl, UT
- ▶ T33 is a Star Instruments 12.5" RCOS with a monochrome camera located near Coonabarabran, AU
- Use T68 since OSC frames are easier & faster to prepare
- ▶ Become an iTelescope member for \$39.95 per month
- Members have access to all telescopes including unlimited access to T68





# Join our members at



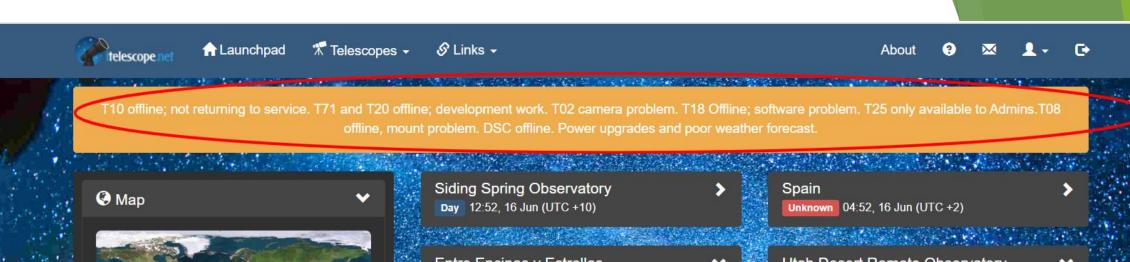
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Name: 📵	First Name Last Name
Email:	Email address
Password: 📵	Password
Confirm password:	Confirm password

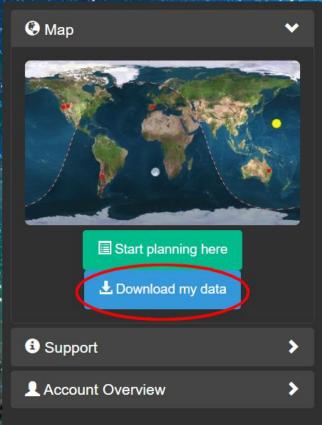
I'm not a robot

By joining iTelescope you agree to our terms of use and policies.

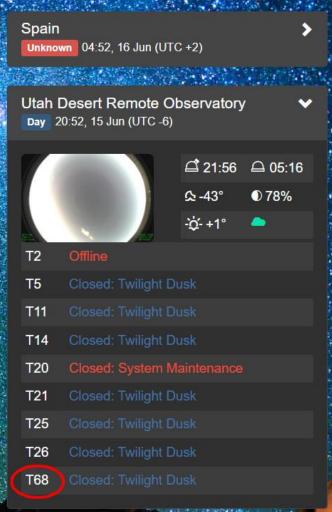
Join Now













Minimum Elevation: 15° Maximum Exposure: 240 seconds Filters: Color

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Telescopius

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#### Tools

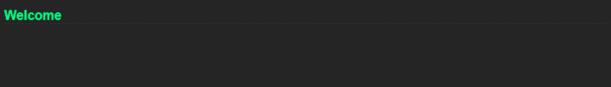
**AAVSO VPhot** 

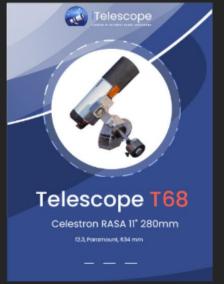
View Computer Desktop

Preview Last Image

Weather Data

All Sky Camera





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Designation	Sample Image	Common Name	RA	DEC	Azimuth	Elevation	Brightness		Sub- Exposure Time (Secs)	Total Exposure Time (Secs)	Start Exposure
NGC4565	/	None	12.605	25.983	249.569	65.008	**	3	120	360	SUBMIT

# **Other Celestial Objects**

Designation	Sample Image	Common Name	RA	DEC	Azimuth	Elevation	Brightness	Repeat		Total Exposure Time (Secs)	Start Exposure
М3		None	13.703	28.383	223.612	77.645	**	3	120	360	SUBMIT
M5		None	15.31	2.083	156.141	51.959	**	3	120	360	SUBMIT
M13		None	16.695	36.467	81.669	62.048	**	3	120	360	SUBMIT

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# **Other Celestial Objects**

Designation	Sample Image	Common Name	RA	DEC	Azimuth	Elevation	Brightness		Sub- Exposure Time (Secs)	Total Exposure Time (Secs)	Start Exposure
M3					fully. See S	System Stat	× tus for	3	120	360	SUBMIT
M5		ongoi	ng info.					3	120	360	SUBMIT
M13								3	120	360	SUBMIT
M40								3	120	360	SUBMIT
M49		None	12.497	8	232.268	48.609	**	3	120	360	SUBMIT
	A										

## Menu

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Telescopius

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Planet Imaging Guide

# **Imaging / Plan**

Moon

One Click Image

Deep Sky Objects

Comets/NEO

**Planets & Minor Planets** 

# One Click Image

## **Instructions**

- 1. Click on the SUBMIT button for the object you wish to image.
- 2. Click on System Status or View Observatory to view the status of your plan execution in real-time.
- 3. Once the exposure has finished, the image will be ready for download in approximately 5 minutes.

# **Astrophotography Parameters**

• Filter(s) in use: Color

• Bin: 2

#### **Notes**

- Astronomical objects listed below are at least 45 degrees above the horizon.
- If you are a beginner, start with the brightest targets first and work your way to the least bright.

# **Tonight's Finest Objects**

**Northern Skies** 

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**Live Control** 

Run a Saved Plan

# My Data

# **System Status**

Preview Last Image

Auto-Guider Preview

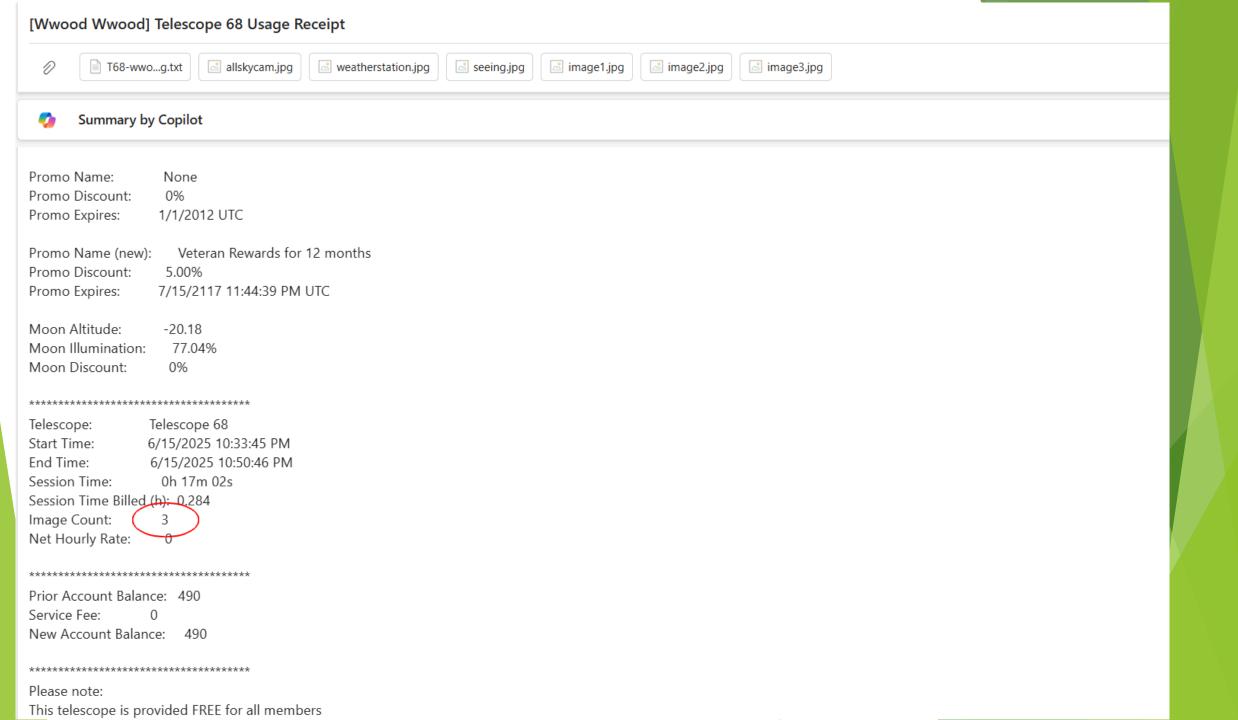
If the System Status page isn't refreshing correctly or seems to be hung, please hit the reload button on your browser.

0	bservatory		Telescope	lma	ger	Activity		
In use		Side	ereal Track	Autofoci	us Busy	AutoFocus		
UTC:	04:36:59					Target	Focus Star	
LST:	14:41:01	RA:	21:03:29.41	Filter	Color	RA	::	
Local:	22:36:59	Dec:	43°33'33.3"	Binning	1:1	Dec	°'	
Date:	15-06-25	Az:	050.5°	Cooler	-10°C	200		
Owner	Wwood Wwood	Alt:	21.0°					
Weather	n/a	Air:	2.8					
	ouse over links	RA/E	Dec local topo					

# Current Running Script Output:

```
Min/Max exp. setting = 0.10/5.00
Flux target = 387298
Using mean convergence: Steps = 15 Samples = 10
Move direction: Out
Filter = Color (slot 0)
Current position = 637935
NearFocus HFD: 12
```

# Refresh Image



[Wwo	ood Wwood] Teleso	cope 68 Usage R	Receipt				^
0	T68-wwog.txt	allskycam.jpg		seeing.jpg	image1.jpg	image2.jpg	image3.jpg
<b>9</b>	Summary by Copile	ot					×
https:/ url=ht JFbXB	•	ection.outlook.con v.itelescope.net%2 JsllYiOilwLjAuMDA	<u>n/?</u> ?Faup&data=05%7C029				%7C84df9e7fe9f640afb435aaaaaaaaaaa%7C1%7C0%7C638856463487027537%7CUnknown%7CTWFpbGZsb3d8ey C%7C%7C&sdata=DKW6%2BX8iOpsGeX0a38xi9Yi%2BzsqbCVR1M5d4sQabCNU%3D&reserved=0
If you https://pricing	lan was billed at sess would like to change //na01.safelinks.prote g&data=05%7C02% // ICISIIAiOiJXaW4zMils s Taken (First 15 Ima 1:T68-wwood-M3-20	e to exposure billir ection.outlook.con 7C%7Ce9dad40c1 sikFOljoiTWFpbCls *********** ges Only): 0250615-224215-0	n/?url=https%3A%2F%; dd240c45aff08ddac918	.74b%7C84df9e C0%7C%7C%7C	e7fe9f640afb435 C&sdata=QdgHl	aaaaaaaaaa%7	C1%7C0%7C638856463487052613%7CUnknown%7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsllYiOilwLjAuM GWcsXFjbTYVnfAWij6q1KKF461jvM%3D&reserved=0
Reque https:/ url=ht %7CU	st a session refund b //na01.safelinks.prote tps%3A%2F%2Fgo.it	oy clicking the link ection.outlook.con elescope.net%2Fa	n/? account%2Frefund.aspx	%3Fref%3D807	841&data=05%		dad 40c1dd 240c 45 aff 08ddac 91874 b% 7C84df 9e7fe9f 640 af b 435aaaaaaaaaaaa 87C1% 7C0% 7C638856463487060789 W Epb CIslld Uljoyf Q%3D%3D%7C0%7C%7C%7C% sdata = vJR3pt 4Dx6ozyg Gg6CVF1Wt6JBd 41xca0VI%2FNNZ3Fag%3
https:/ url=ht		.itelescope.net%2	F&data=05%7C02%7C9				44df9e7fe9f640afb435aaaaaaaaaa%7C1%7C0%7C638856463487068708%7CUnknown%7CTWFpbGZsb3d8eyJFbX C%7C&sdata=MELKqSCSyTMfK6Z4Ib3KUlOWTOYYoA1Ee9674jtT38k%3D&reserved=0





Download

Refresh

# Filename

	To <sub>2</sub>
	T18
	Tig
	T21
	T24
	T <sub>59</sub>
	T68
	Т70
	T <sub>72</sub>
	T <sub>75</sub>
	T8o
	calibration-library
	logs
	plans



Download Refresh

Filename

☐ ↑ One level up

□ **a** 20200613





Refresh

#### Filename

itelescope.net

☐ ↑ One level up



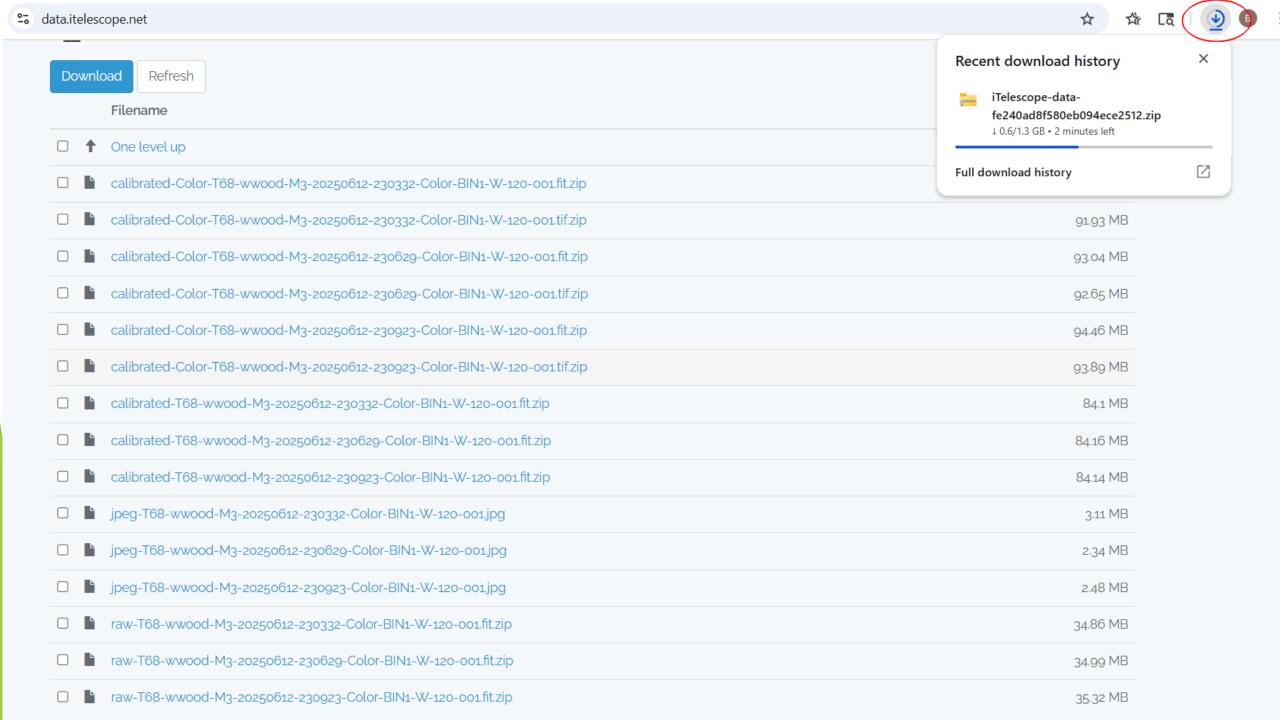
## Delete

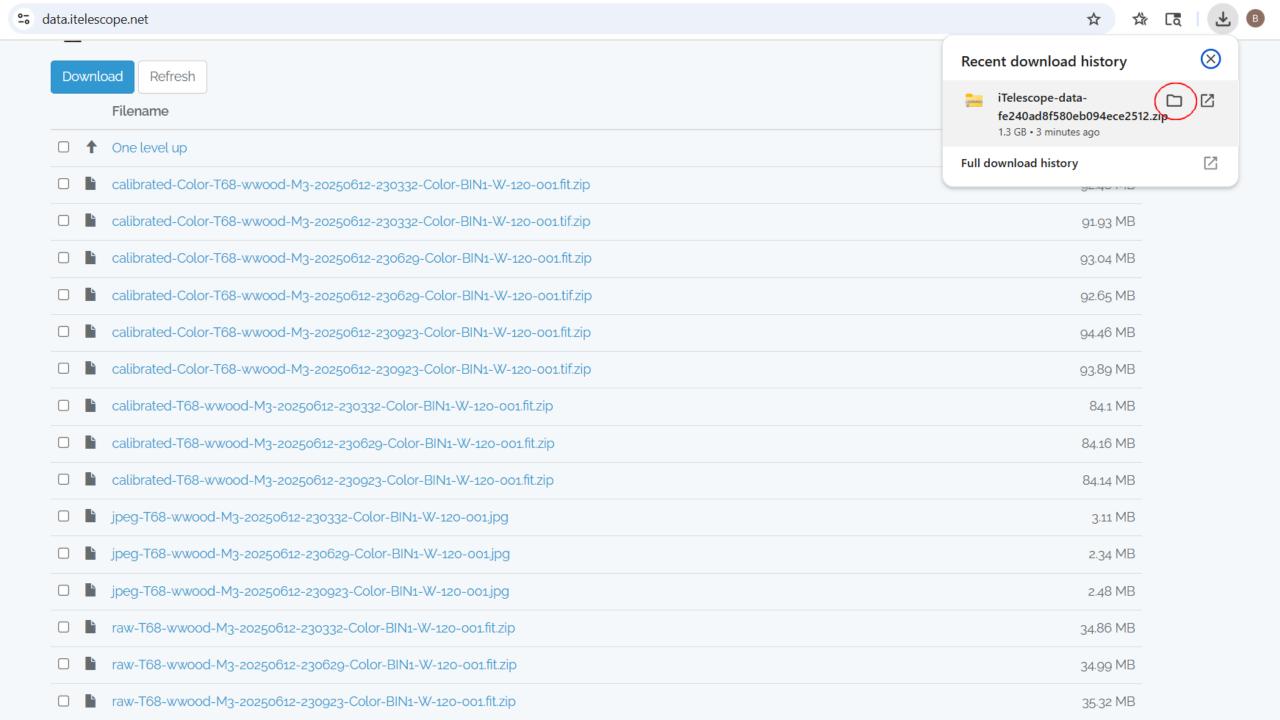
Filesize

#### Filename

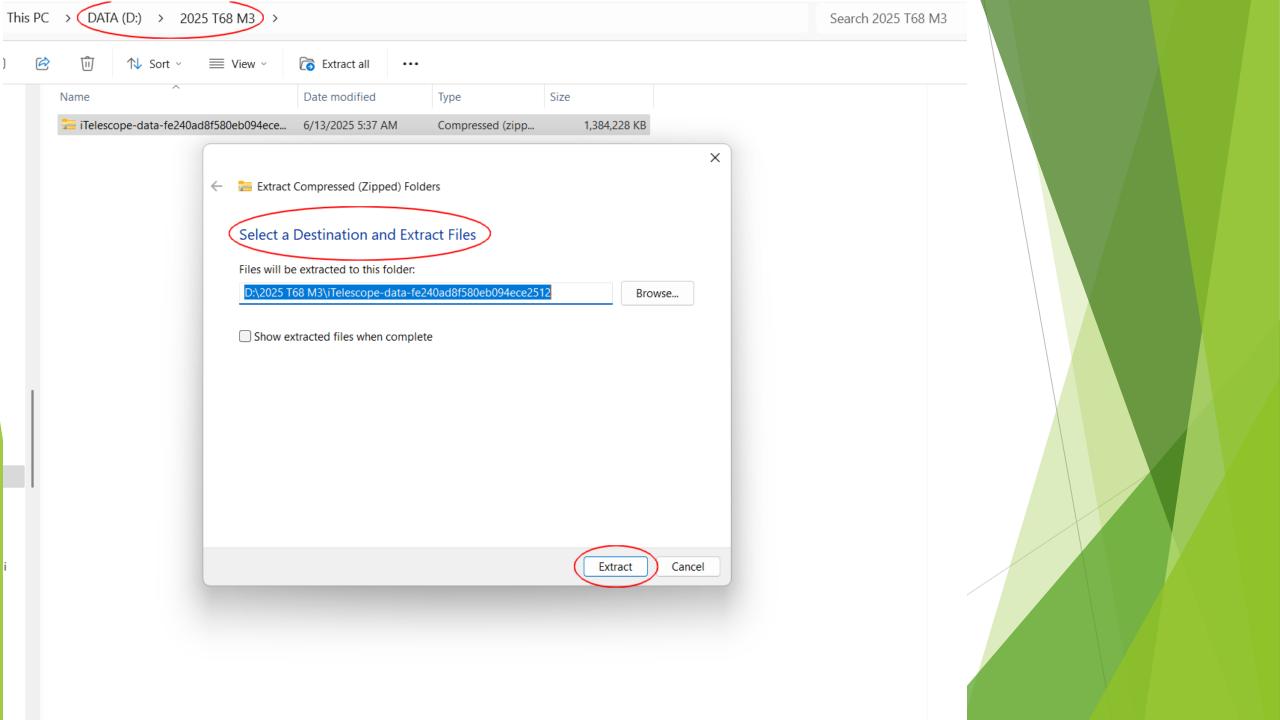
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calibrated-Color-T68-wwood-M3-20250612-230629-Color-BIN1-W-120-001.fit.zip	93.04 MB
calibrated-Color-T68-wwood-M3-20250612-230629-Color-BIN1-W-120-001.tif.zip	92.65 MB
calibrated-Color-T68-wwood-M3-20250612-230923-Color-BIN1-W-120-001.fit.zip	94.46 MB
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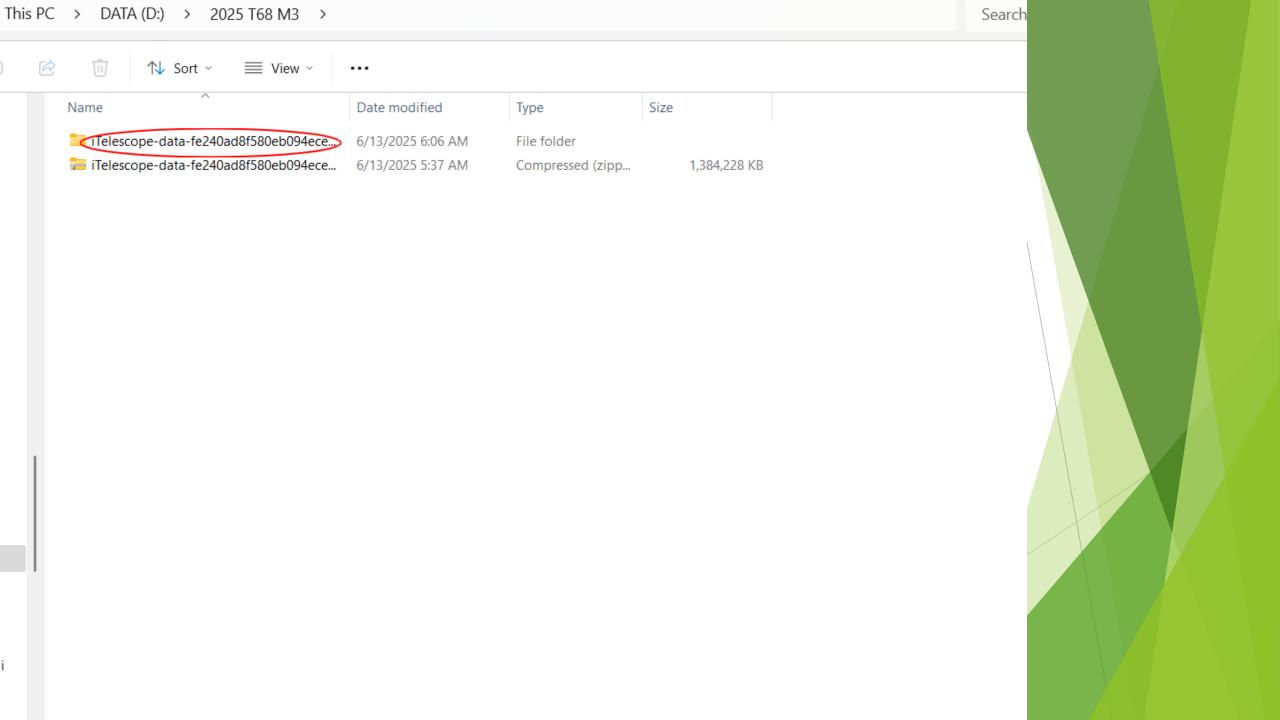
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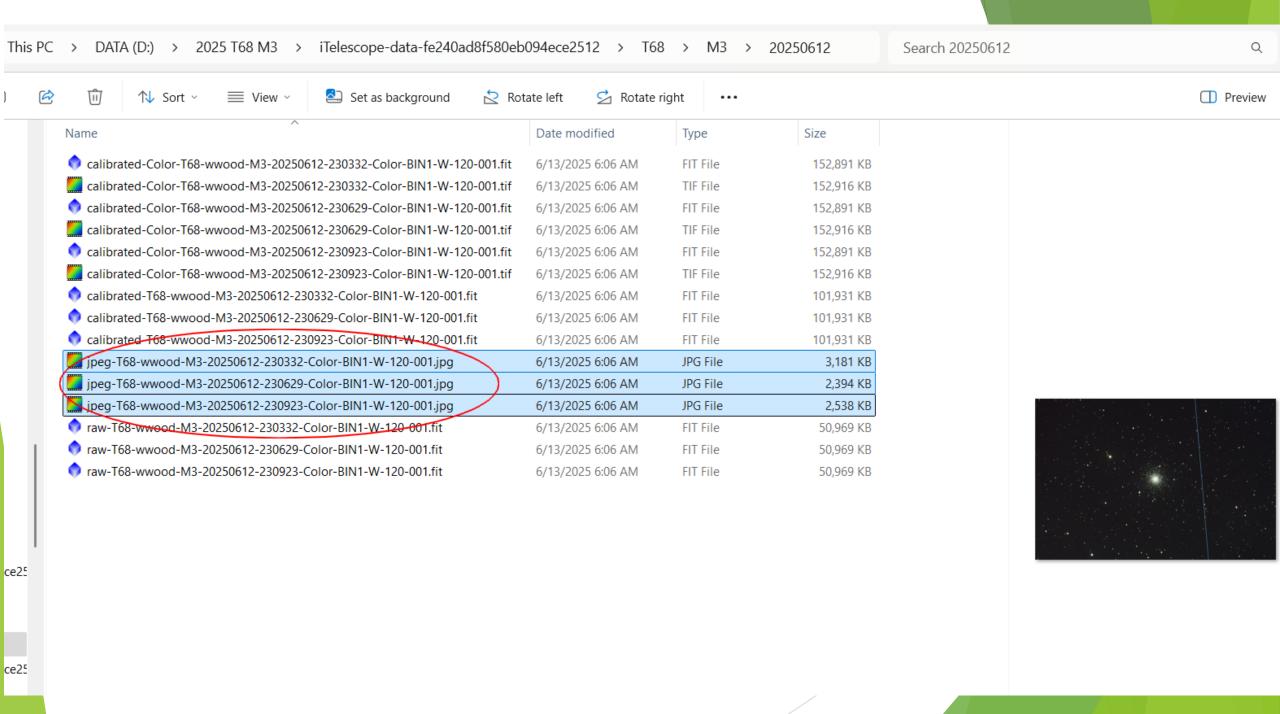




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images.zip	
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<b>Favorites</b> 6/10/2025 10:01 PM Microsoft 29 KB	
<b>Links</b> 6/10/2025 10:00 PM Microsoft 29 KB	







- Use any image editor to adjust gamma, contrast, color saturation, & sharpness to any one of the JPG astro images
- Adjust size of final JPG image to be less than 5M
- Share your astro photo
- ► There are number of alternative methods of taking astro photos

  Mount your cell fone camera on a tripod. set a 2 second delay. & take 10 second exposures with high ISO and no zoom

If you have a DSLR, use a wide-angle lens. set a 2 second delay, & take 10 second exposures with high ISO

Become a member of LCRV Astronomy Club (\$24/yr) & get free access to the WHO observatory for visual or imaging projects.



July 19, 2025 Presentation

An introduction to Pixinsight. How to register, integrate, & stretch multiple frame one-shot color images.