

Prospective Imaging Objects – October 02, 2024

Astronomical Data

Sunrise	Sunset	Astronomical Dusk	Astronomical Dawn	Imaging	New Moon
06:23am	06:09 pm	07:32 pm	05:00 am	09:28	October 02

Hardware Info

Configuration	FL	FOV	FOV°	FR	Image Scale (1 – 1.5) ideal
C11HD ZWO ASI-6200MC	2800 mm	45' x 30'	0.75° x 0.5°	10	0.280"/pix (Oversampled)
C11HD 0.7xReducer ASI-6200MC	1960 mm	60' x 45'	1.0° x 0.75°	7	0.393"/pix (Oversampled)
C11HD HS-v4 ZWO ASI-6200MC	540 mm	228' x 150'	3.8° x 2.5°	1.9	1.4"/pix (Undersampled)
C6 ZWO ASI-6200MC	1500 mm	83' x 55'	1.38° x 0.92°	10	0.52"/pix (Oversampled)
C6 0.63 Corrector ZWO ASI-6200MC	1220 mm	131' x 88'	2.18° x 1.46°	6.3	0.82"/pix (Oversampled)
C6 HS-v4 ZWO6200MC	300mm	412' x 275'	6.87° x 4.58°	2.0	2.59"/pix (Undersampled)

How to use this document


Sculptor Galaxy (NGC 253)
Config: C11 | LF Corr | 128c

Type: **Galaxy**
 Peak: **Oct 02**
 Constellation: **Sculptor**
 Coordinates:
00hr 47' 33"
-25° 17' 15"

Close Star: SAO-147420
 Catalog Objects: [NGC 253](#)

Imaging Window: *10:44 – 02:44
 Transit: **12:48**

Primary Focus



01: Background Fill Color - Items that I have previously images will have a fill color of grey, Images not yet imaged will have a white background color.

02: Object Name and catalog number – Common name long with one of the reference catalog numbers associated with this object.

03: Config – The optimal configuration to image this object, and the configuration the provided image is based on based on what hardware I own. Configuration will either be the Celestron C-11 Primary focus (with focal reducer) or C-11 with HyperStar.

04: Object Image – If this is an object I have already imaged, the thumbnail is my photo. It is hyperlinked to my website, so selecting the image should open a larger image in your browser. If the object has not yet been imaged by me the image displayed is for the identified configuration as obtained from <http://www.telescopious.com>.

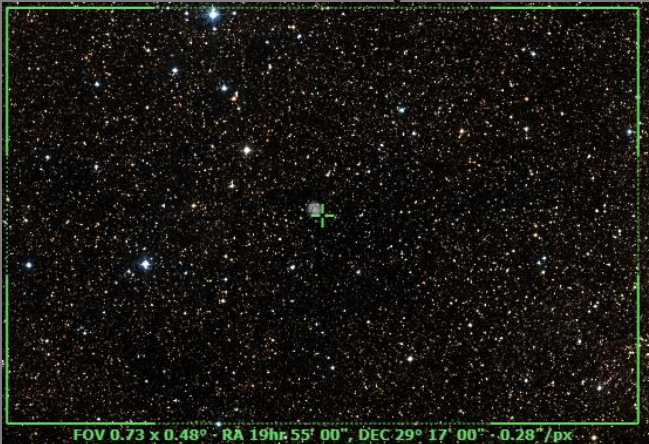
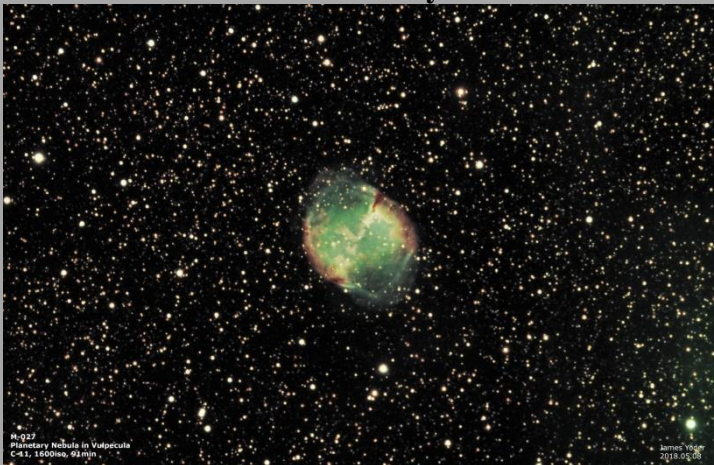
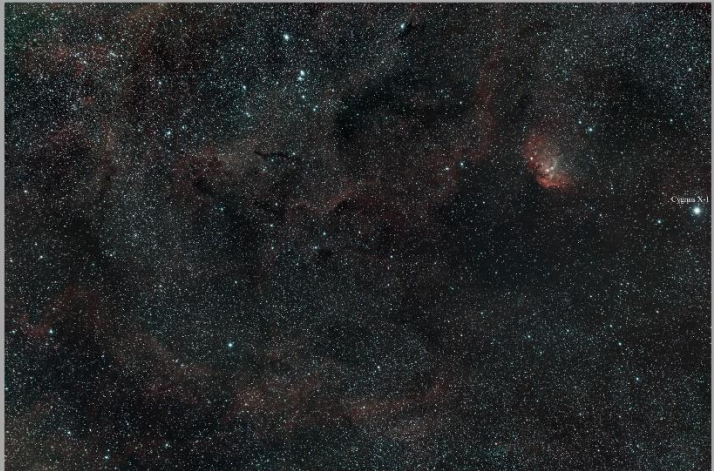
05: Close Star – A fairly bright star close to the target that can be used to check focus and sync the telescope before the imaging session begins.

06: Catalog Objects – List of objects that should appear in the field of view. When possible they are hyperlinked to <http://www.telescopious.com> where more information can be obtained.




07: Imaging Window – Ideally the time the object is 45° above the horizon. Southern objects with negative DEC that do not peak above 45° are indicated with a *. Imaging window for these objects may be based on 30° or even 25° above horizon for the imaging window.

08: Transit – When the object is at the highest point in the sky for the night. For equatorial mounts this is when the meridian flip will occur.




Prospective Imaging Objects – October 02, 2024

<p>NGC 6842 (PK 65+0.1) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Vulpecula Coordinates: 19h 55' 00" 29° 17' 00"</p> <p>Close Star: SAO-68637 (12 Cyg) Catalog Objects: NGC-6842/PK 65+0.1 Imaging Window: 07:32 – 11:05 Transit: 07:31 86°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center; font-size: small;">FOV 0.73 x 0.48° - RA 19hr 55' 00" - DEC 29° 17' 00" - 0.28"/px</p>
<p>Dumbbell Nebula (M-27, NGC-6853) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Vulpecula Coordinates: 19h 59' 36" 22° 43' 17"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: M-27/NGC-6853 Imaging Window: 07:32 – 10:58 Transit: 07:36 79°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: x-small;">M-27 Planetary Nebula in Vulpecula C-11, 1600iso, 92min</p> <p style="font-size: x-small; text-align: right;">James Yoder 2018.02.08</p>
<p>Fish on the Platter (B-144) Config: C11-HD HS ZWO6200MC</p> <p>Type: Dark Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 02' 28" 34° 57' 42"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: B-144, SH2-101 Imaging Window: 07:32 – 11:17 Transit: 07:34 89°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: x-small;">Fish On Platter (B-144, LDN-850) C-11 HyperStar v4, 1600iso, 92min</p> <p style="font-size: x-small; text-align: right;">James Yoder 2018.02.08</p>




Prospective Imaging Objects – October 02, 2024

<p>Tulip Nebula (SH2-101) Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 00' 58" 35° 16' 30"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: SH2-101 Imaging Window: 07:32 – 11:17 Transit: 07:34 89°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Tulip Nebula (SH2-101) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 00' 57" 35° 20' 11"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: B-144 Imaging Window: 07:32 – 11:17 Transit: 07:34 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-6852 (PK 42-14.1) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Aquila Coordinates: 20h 00' 39" 01° 43' 43"</p> <p>Close Star: SAO-144150 (65 Aql) Catalog Objects: NGC-6852/PK 42-14.1 Imaging Window: 07:32 – 09:56 Transit: 07:37 58°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 


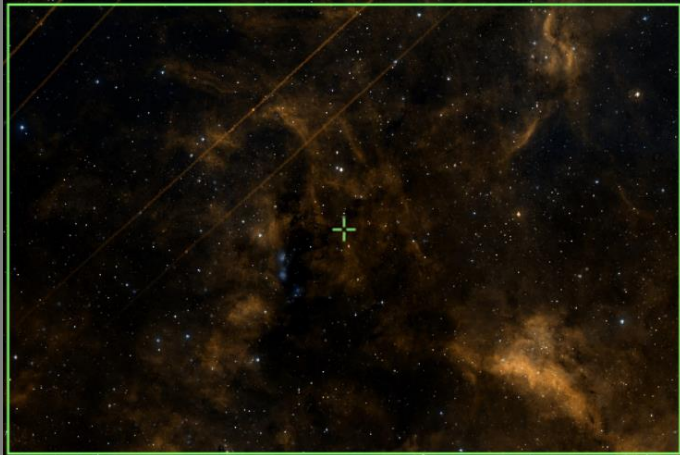
Prospective Imaging Objects – October 02, 2024

<p>M-75 (NGC-6864) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Sagittarius Coordinates: 20h 06' 05" -21° 55' 15"</p> <p>Close Star: SAO-191524 (Formalhaut) Catalog Objects: M-75/NGC-6864 Imaging Window: *07:32 – 09:26 Transit: 07:42 35°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Crescent Nebula (NGC-6888) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 12' 06" 38° 21' 00"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: NGC-6888/Sh2-105 Imaging Window: 07:32 – 11:39 Transit: 07:50 85°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Propeller Nebula (DWB-111) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 16' 09" 43° 41' 47"</p> <p>Close Ref Object: LDN 891 Close Star: SAO-048796 (Al Fawaris) Catalog Objects: Simeis-57/DWB-111 Imaging Window: 07:32 – 11:39 Transit: 07:50 79°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Propeller Nebula (DWB 111) Constellation: Cygnus the Swan</p> <p style="font-size: x-small; text-align: right;">Image Size: 2048x2112 Location: Cygnus, 43° Config: C11 Starizona LF Camera Astrocam 6.3x4.5 QHY170 Exposure Info: 230x30x15min Gain: 3000 Offset: 100</p>




Prospective Imaging Objects – October 02, 2024

<p>NGC 6891 (PK 54-12.1) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Delphinus Coordinates: 20h 15' 09" 12° 42' 17"</p> <p>Close Star: SAO-106230 (2 Del) Catalog Objects: NGC-6991 Imaging Window: 07:32 – 10:49 Transit: 07:51 77°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;">FOV 0.73 x 0.48° · RA 20hr 15' 09", DEC 12° 42' 17" · 0.28"/px</p>
<p>Little Ring Nebula (NGC-6894) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 16' 24" 30° 33' 57"</p> <p>Close Star: SAO-71070 (64 Cyg) Catalog Objects: NGC-6894 Imaging Window: 07:32 – 11:29 Transit: 07:53 87°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;">FOV 0.73 x 0.48° · RA 20hr 16' 24", DEC 30° 33' 57" · 0.28"/px</p>
<p>IC-4997 (PK 58-10.1) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Sagitta Coordinates: 20h 20' 09" 16° 43' 56"</p> <p>Close Star: SAO-106316 (Rotanev) Catalog Objects: IC-4997 Imaging Window: 07:32 – 11:05 Transit: 07:56 87°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;">FOV 0.73 x 0.48° · RA 20hr 20' 09", DEC 16° 43' 56" · 0.28"/px</p>


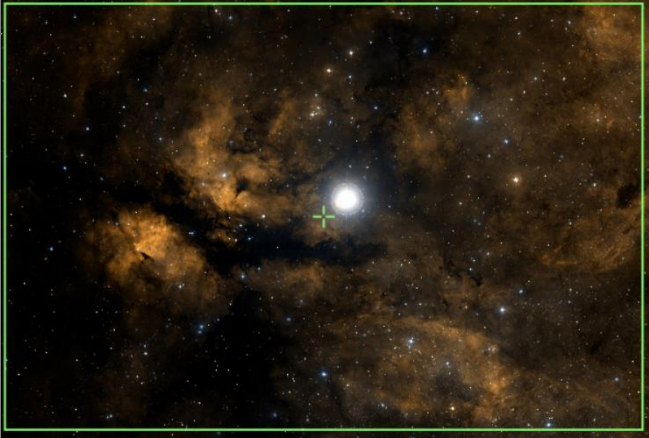
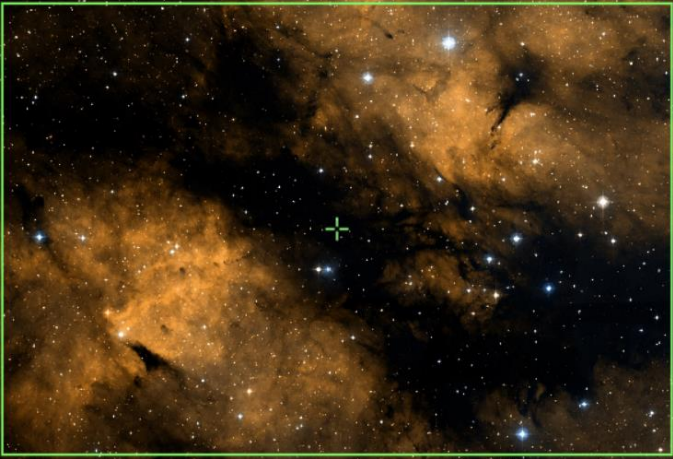
Prospective Imaging Objects – October 02, 2024

<p>Gamma Cygni Nebula (IC-1318 A&B) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: Frame 1: RA=20hr 18' 27" DEC=41°12'10" Frame 2: RA=20hr 18' 38" DEC=38°55'33"</p> <p>Close Star: SAO-49941 (Deneb) Catalog Objects: IC-1318 Imaging Window: 07:32 – 11:42 Transit: 07:53 81°</p>	<p>C-11 HD: HyperStar v4 Composite!</p>  <p><small>Gamma Cygni Nebula (IC-1318) Constellation: Cygnus IC-1318A IC-1318B IC-1318C IC-1318D IC-1318E IC-1318F IC-1318G IC-1318H IC-1318I IC-1318J IC-1318K IC-1318L IC-1318M IC-1318N IC-1318O IC-1318P IC-1318Q IC-1318R IC-1318S IC-1318T IC-1318U IC-1318V IC-1318W IC-1318X IC-1318Y IC-1318Z</small></p>
<p>IC-1318A</p> <p>Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 22' 52" 42° 38' 53"</p> <p>Close Star: SAO-49941 (Deneb) Catalog Objects: IC-1318A Imaging Window: 07:32 – 11:42 Transit: 07:53 81°</p>	<p>C-11 HD: HyperStar v4</p> 



Prospective Imaging Objects – October 02, 2024

<p>Blue Flash Nebula (NGC-6905) Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Delphinus Coordinates: 20h 22' 24" 20° 06' 18"</p> <p>Close Star: SAO-108378 (Markab) Catalog Objects: NGC-6905 Imaging Window: 07:32 – 11:15 Transit: 07:59 77°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-29 (NGC-6913) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Cygnus Coordinates: 20h 24' 06" 38° 29' 36"</p> <p>Close Star: SAO-90981 (Scheat) Catalog Objects: M-29/NGC-6913 Imaging Window: 07:32 – 11:46 Transit: 08:00 85°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>IC-1318 Region-1 Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 24' 48" 42° 29' 00"</p> <p>Close Star: SAO-49941 (Deneb) Catalog Objects: NGC-6914 Imaging Window: 07:32 – 11:51 Transit: 08:01 81°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 

Prospective Imaging Objects – October 02, 2024

<p>IC-1318 Region-1 Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 25' 07" 42° 24' 34"</p> <p>Close Star: SAO-49941 (Deneb) Catalog Objects: NGC-6914 Imaging Window: 07:32 – 11:51 Transit: 08:01 81°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>IC-1318B Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 22' 57" 40° 09' 33"</p> <p>Close Star: SAO-67174 (Vega) Catalog Objects: IC-1318B Imaging Window: 07:32 – 11:52 Transit: 08:04 80°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>IC-1318B Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 26' 59" 40° 06' 52"</p> <p>Close Star: SAO-67174 (Vega) Catalog Objects: IC-1318B Imaging Window: 07:32 – 11:52 Transit: 08:04 80°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 

Prospective Imaging Objects – October 02, 2024

<p>IC-1318B Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 25' 40" 40° 17' 34"</p> <p>Close Star: SAO-67174 (Vega) Catalog Objects: IC-1318B Imaging Window: 07:32 – 11:52 Transit: 08:04 80°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p><small>Butterfly Nebula (IC-1318) Constellation: Cygnus the Swan (RA = 20h 25m 39.35s DEC = +40deg 17' 01.4") Size = 42.3 x 28.5 arcmin Observation: 0.15Mag f of N1 (Focal ratio = 9.44) area (sq): 11.279min Date: 2024-07-23 08:04:00 UTC Location: Chandler, AZ CCD: ZWO ASI 6200MM Pro (16.0um) Filter: 6nm Exposure: 100 (1000000) Gain: 1000 (1000000)</small></p>
<p>Fireworks Galaxy(NGC-6946) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Cepheus Coordinates: 20° 34' 54" 60° 08' 60"</p> <p>Close Star: SAO-19302 (Alderamin) Catalog Objects: NGC-6946 Imaging Window: 07:32 – 11:58 Transit: 08:11 63°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

Prospective Imaging Objects – October 02, 2024

Pelican & N. America Nebula (IC-5070)

Config: C11-HD | HS | ZWO6200MC

Type: **Bright Nebula**

Constellation: **Cygnus**

Coordinates:

Frame 1:

RA=20hr56'10" DEC=44°55'07"

Frame 2:

RA=20hr56'10" DEC=42°37'57"

Close Star: **SAO-50180** (57 Cygni)

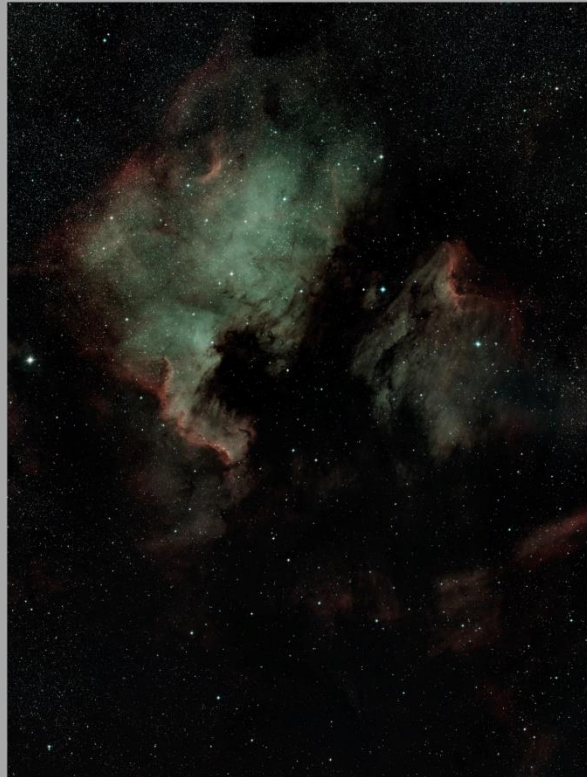
Catalog Objects: [IC5070](#)

Imaging Window: **07:32 – 12:18**

Transit: **08:27 | 79°**

C-11 HD: HyperStar v4

Composite!



North America (NGC-7000) and Pelican (IC-5070) Nebula
Constellation: Cygnus the Swan
RA: 20h 56m 10s DEC: 44° 55' 07" Size: 200 x 270 arcmin Orientation: 0:deg E of N (True) scale = 1:411 arcmin/pixel (F0.5-filter)

James Volder (Data) | 2022.08.26-2022.09.06 Location: Chandler, AZ
Config: (C-11HD) HyperStar-V4 (OPT Radfan Total Ultra) ZWO6200MC
Exposure Info: (Music: 101 & 121 Imagi.Star) Gain: 100 (Offset: 50)

Pelican & N. America Nebula (IC-5070)

Config: C11-HD | HS | ZWO6200MC

Type: **Bright Nebula**

Constellation: **Cygnus**

Coordinates:

20h 57' 29"

44° 10' 10"

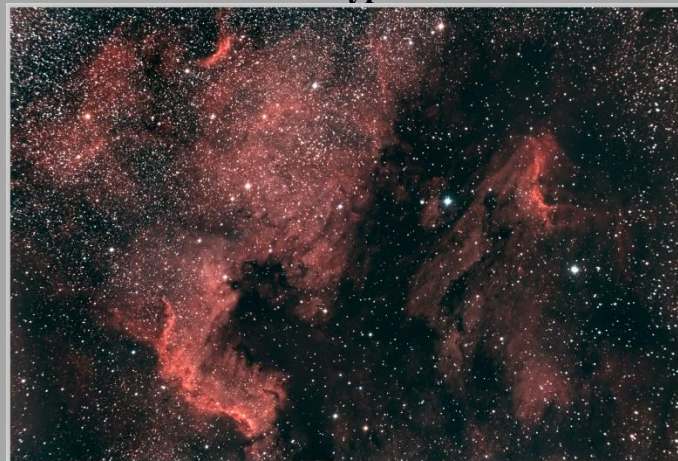
Close Star: **SAO-50180** (57 Cygni)

Catalog Objects: [IC5070](#)

Imaging Window: **07:32 – 12:18**

Transit: **08:27 | 79°**

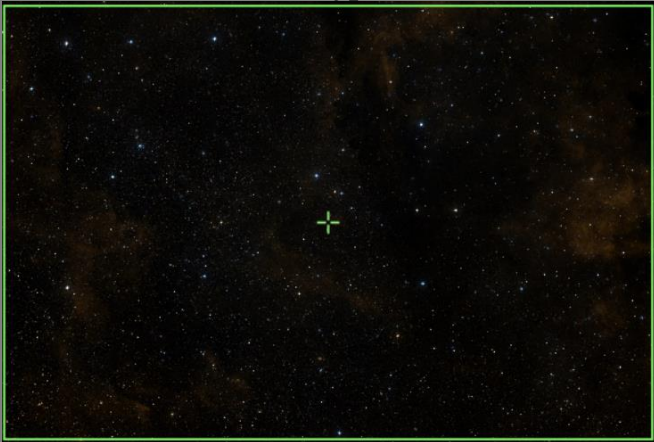
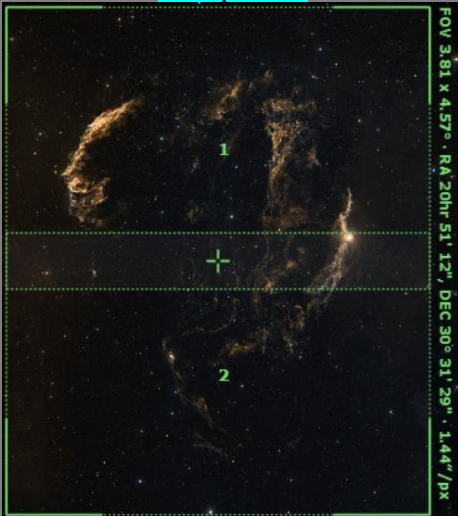
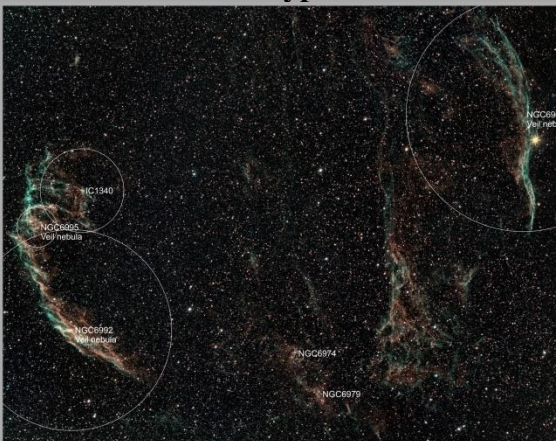
C-11 HD: HyperStar v4




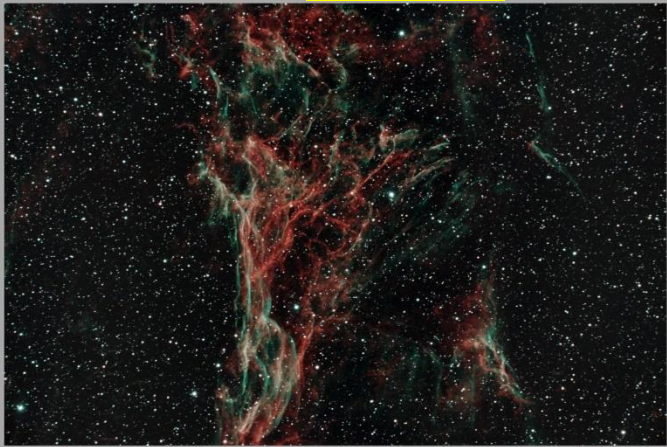

North American Nebula (NGC 7000) Pelican Nebula (IC 5070) and Open Star Cluster (NGC 6997)
Constellation: Cygnus the Swan

James Volder | 2019.02.20
Config: (C11) HyperStar / Astromech C15-CCD / DSI158L
Exposure Info: (55Struc)Gain: Gain: 3200 (Offset: 148)

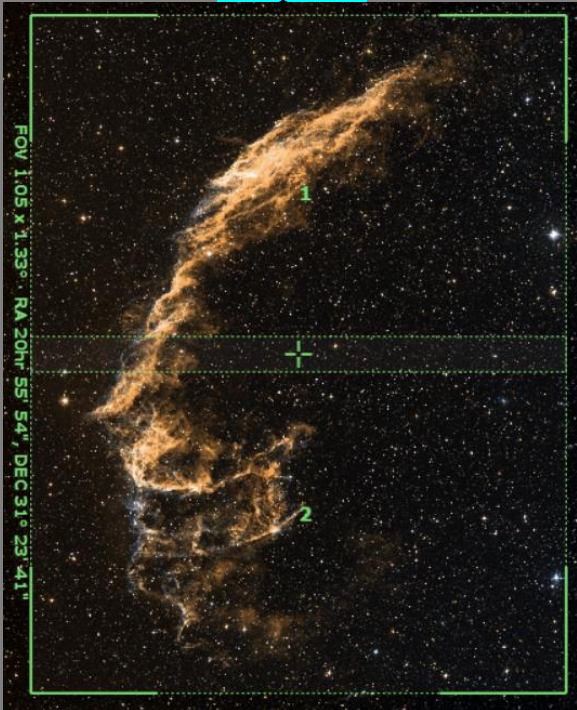

Prospective Imaging Objects – October 02, 2024

<p>Northern Coal Sack (LDN-904) Config: C11-HD HS ZWO6200MC</p> <p>Type: Dark Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 51' 52" 39° 13' 34"</p> <p>Close Star: SAO-49941 (Deneb) Catalog Objects: LDN-904 Imaging Window: 07:32 – 12:16 Transit: 08:29 84°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>Veil Nebula (NGC-6960) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: P1: RA: 20h51'12" DEC: 31°32'26" P2: RA: 20h51'12" DEC: 29°30'31"</p> <p>Close Star: SAO-70467 (52 Cygni) Catalog Objects: NGC-6960, 6992, 6995 Imaging Window: 07:32 – 12:06 Transit: 08:29 80°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4 Composite!</p> 
<p>Veil Nebula (NGC-6960) Config: C11-HD HS ZWO6200MC</p> <p>Type: Supernova Remnant</p> <p>Constellation: Cygnus Coordinates: 20h 51' 15" 31° 03' 60"</p> <p>Close Star: SAO-70467 (52 Cygni) Catalog Objects: NGC-6960, 6992, 6995 Imaging Window: 07:32 – 12:06 Transit: 08:29 80°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">Veil Nebula Complex Constellation: Cygnus the Swan</p> <p style="font-size: x-small; text-align: right;">Image credit: James Storer Location: Chandler, AZ 2019-08-29 Config: C11 HyperStar Astrocam, ZWO 6200MC, QHY 128C Exposure time: 3 Transmissions @ 1200 @ f/8.0</p>




Prospective Imaging Objects – October 02, 2024

<p>Witch's Broom (NGC-6960) Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: P1: RA=20hr 46' 20" DEC=30° 54' 54" P2: RA=20hr 46' 20" DEC=30° 17' 06"</p> <p>Close Star: SAO-70467 (52 Cygni) Catalog Objects: NGC-6960</p> <p>Imaging Window: 07:32 – 12:06 Transit: 08:29 80°</p>	<p>C-11 HD: Focal Reducer Composite!</p> 
<p>Pickering's Triangular Wisp Config: C11-HD FR ZWO6200MC </p> <p>Type: Supernova Remnant</p> <p>Constellation: Cygnus Coordinates: 20h 48' 16" 31° 37' 17"</p> <p>Close Star: SAO-70467 (52 Cygni) Catalog Objects: NGC-6960</p> <p>Imaging Window: 07:32 – 12:06 Transit: 08:29 80°</p>	<p>C-11 HD: Focal Reducer</p> 
<p>M-72 (NGC-6981) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Aquarius Coordinates: 20h 53' 28" -12° 32' 11"</p> <p>Close Star: SAO-108378 (Markab) Catalog Objects: M-72/NGC-6981 Imaging Window: *07:32 – 11:11 Transit: 08:30 44°</p>	<p>C-11 HD: Primary Focus</p> 


Prospective Imaging Objects – October 02, 2024

<p>Network Nebula (NGC-6992) Config: C11-HD FR ZWO6200MC </p> <p>Type: Supernova Remnant</p> <p>Constellation: Cygnus Coordinates: P1: RA= 20hr 55' 54" DEC= 31° 42' 35" P2: RA= 20hr 55' 54" DEC= 31° 04' 47"</p> <p>Close Star: SAO-70474 (Gienah) Catalog Objects: NGC-6992 Imaging Window: 07:32 – 12:10 Transit: 08:32 88°</p>	<p>C-11 HD: Focal Reducer Composite!</p> 
<p>M-73 (NGC-6994) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Aquarius Coordinates: 20h 59' 00" -12° 37' 60"</p> <p>Close Star: SAO-108378 (Markab) Catalog Objects: M-73/NGC-6994 Imaging Window: *07:32 – 11:18 Transit: 08:35 44°</p>	<p>C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – October 02, 2024

<p>Fetus Nebula (NGC-7008) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Cygnus Coordinates: 21h 00' 33" 54° 32' 38"</p> <p>Close Star: SAO-49941 (Deneb) Catalog Objects: NGC-7008 Imaging Window: 07:32 – 12:29 Transit: 08:37 69°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Planetary Nebula NGC-7008 Constellation: Deneb RA = 21h 00m 33.00s DEC = 54° 32' 38.00" (J2000) Observation: 9/24/21 (1h) Filter: none = 8.000 min (100%) (8x300mm) James Yoder - Deneb 2023-09-27 20:17:00 (100%) - Cygnus - 10 Config: C-11 HD: Kase T-RAM 7500 0100K Focal Reducer: 2x ImageSharp - 1.0x 100 - 100%</p>
<p>Iris Nebula (NGC 7023) Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cepheus Coordinates: 21h 01' 36" 68° 10' 00"</p> <p>Close Star: SAO-19302 (Alderamin) Catalog Objects: NGC-7023 Imaging Window: 07:32 – 12:02 Transit: 08:38 55°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Iris Nebula (NGC 7023) Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cepheus Coordinates: 21h 01' 36" 68° 10' 00"</p> <p>Close Star: SAO-19302 (Alderamin) Catalog Objects: NGC-7023 Imaging Window: 07:32 – 12:02 Transit: 08:38 55°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: x-small;">NGC-7023 Iris Nebula in Cepheus James Yoder 2018.03.04</p>

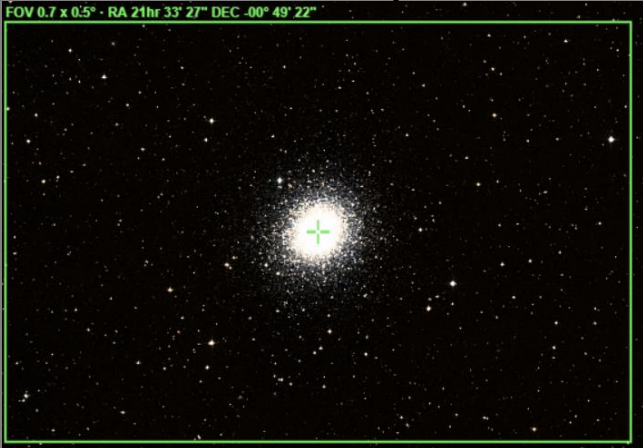
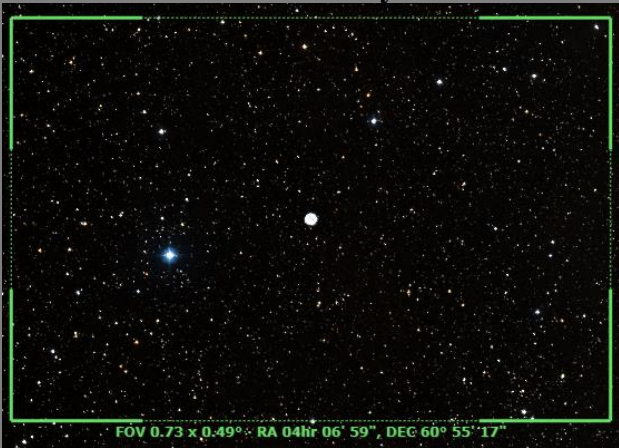
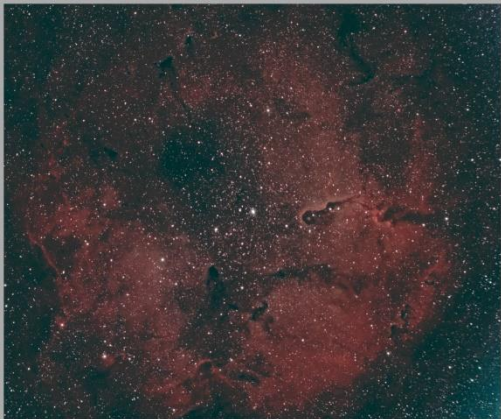
Prospective Imaging Objects – October 02, 2024

<p>Saturn Nebula (NGC-7009) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Aquarius Coordinates: 21h 04' 11" -11° 21' 47"</p> <p>Close Star: SAO-191524 (Fomalhaut) Catalog Objects: NGC-7009 Imaging Window: *07:32 – 11:30 Transit: 08:40 45°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-7026 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Cygnus Coordinates: 21h 06' 19" 47° 51' 10"</p> <p>Close Star: SAO-50456 Catalog Objects: NGC-7026 Imaging Window: 07:32 – 12:35 Transit: 08:42 45°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-7027 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Cygnus Coordinates: 21h 07' 02" 42° 14' 12"</p> <p>Close Star: SAO-50456 Catalog Objects: NGC-7027 Imaging Window: 07:32 – 12:33 Transit: 08:43 45°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 


Prospective Imaging Objects – October 02, 2024

<p>NGC-7048 (PK 88-1.1) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Cygnus Coordinates: 21h 14' 15" 46° 17' 21"</p> <p>Close Star: SAO-49941 (Deneb) Catalog Objects: NGC-7048 Imaging Window: 07:32 – 12:42 Transit: 08:50 77°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Pegasus Cluster (M-15) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Pegasus Coordinates: 21h 29' 58" 12° 10' 03"</p> <p>Close Star: SAO-127029 (Enif) Catalog Objects: M-15/NGC-7078 Imaging Window: 07:32 – 12:03 Transit: 09:06 69°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-39 (NGC-7092) Config: C11-HD FR ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Cygnus Coordinates: 21h 31' 56" 48° 26' 46"</p> <p>Close Star: SAO-49941 (Deneb) Catalog Objects: M-39/NGC-7092 Imaging Window: 07:32 – 01:00 Transit: 09:08 75°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 


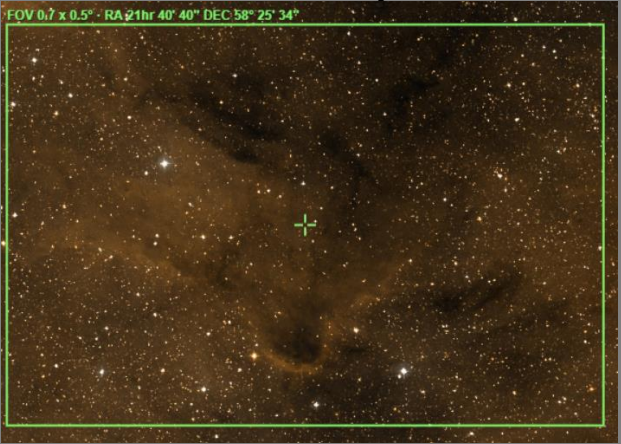

Prospective Imaging Objects – October 02, 2024

<p>M-2 (NGC-7089) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Aquarius Coordinates: 21h 33' 27" 00° 49' 22"</p> <p>Close Star: SAO-127029 (Enif) Catalog Objects: M-2/NGC-7089 Imaging Window: 07:32 – 11:16 Transit: 09:09 56°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-7094 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Pegasus Coordinates: 21h 36' 53" 12° 47' 22"</p> <p>Close Star: SAO-127029 (Enif) Catalog Objects: NGC-7094 Imaging Window: 07:32 – 12:11 Transit: 09:13 69°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Elephant Trunk (IC-1396) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula</p> <p>Constellation: Cepheus Coordinates: 21h 39' 58" 57° 33' 34"</p> <p>Close Star: SAO-19302 (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: 07:32 – 01:06 Transit: 09:15 66°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">Elephant Trunk Nebula (IC-1396) Constellation: Cepheus</p>


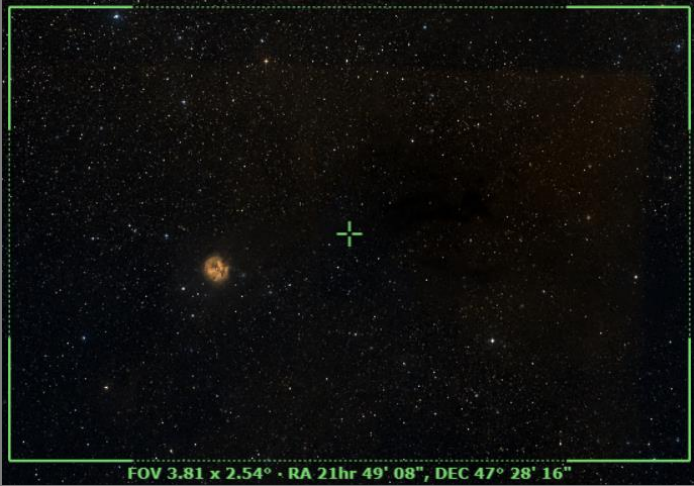

Prospective Imaging Objects – October 02, 2024

<p>Elephant Trunk (IC-1396) Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus Coordinates: 21h 40' 00" 58° 03' 31"</p> <p>Close Star: SAO-19302 (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: 07:32 – 01:06 Transit: 09:15 66°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Elephant Trunk (IC-1396) Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cepheus Coordinates: 21h 34' 39" 57° 29' 02"</p> <p>Close Star: SAO-19302 (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: 07:32 – 01:06 Transit: 09:15 66°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Elephant Trunk (IC-1396) Config: C11HD ZWO6200MC </p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus Coordinates: 21h 41' 50" 56° 43' 48"</p> <p>Close Star: SAO-19302 (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: 07:32 – 01:06 Transit: 09:15 66°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – October 02, 2024

<p>Elephant Trunk (IC-1396) Config: C11HD ZWO6200MC </p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus Coordinates: 21h 34' 44" 57° 28' 44"</p> <p>Close Star: SAO-19302 (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: 07:32 – 01:06 Transit: 09:15 66°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p>FOV 0.7 x 0.5° - RA 21hr 34' 44" DEC 57° 28' 44"</p> <p>This image shows the Elephant Trunk nebula, a complex of bright and dark regions in Cepheus. The nebula is centered in the frame, with a green crosshair marking the center. The field of view is 0.7 x 0.5 degrees, and the coordinates are RA 21h 34m 44s and DEC 57° 28' 44".</p>
<p>Elephant Trunk (IC-1396) Config: C11HD ZWO6200MC </p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus Coordinates: 21h 40' 40" 58° 25' 34"</p> <p>Close Star: SAO-19302 (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: 07:32 – 01:06 Transit: 09:15 66°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p>FOV 0.7 x 0.5° - RA 21hr 40' 40" DEC 58° 25' 34"</p> <p>This image shows the Elephant Trunk nebula, a complex of bright and dark regions in Cepheus. The nebula is centered in the frame, with a green crosshair marking the center. The field of view is 0.7 x 0.5 degrees, and the coordinates are RA 21h 40m 40s and DEC 58° 25' 34".</p>
<p>M-30 (NGC-7099) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Capricornus Coordinates: 21h 40' 22" -23° 10' 43"</p> <p>Close Star: SAO-164644 (Scheddi) Catalog Objects: M-30/NGC-7099 Imaging Window: *07:32 – 11:33 Transit: 09:16 34°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p>FOV 0.7 x 0.5° - RA 21hr 40' 22" DEC -23° 10' 43"</p> <p>This image shows the Globular Cluster M-30, a dense collection of stars in Capricornus. The cluster is centered in the frame, with a green crosshair marking the center. The field of view is 0.7 x 0.5 degrees, and the coordinates are RA 21h 40m 22s and DEC -23° 10' 43".</p>

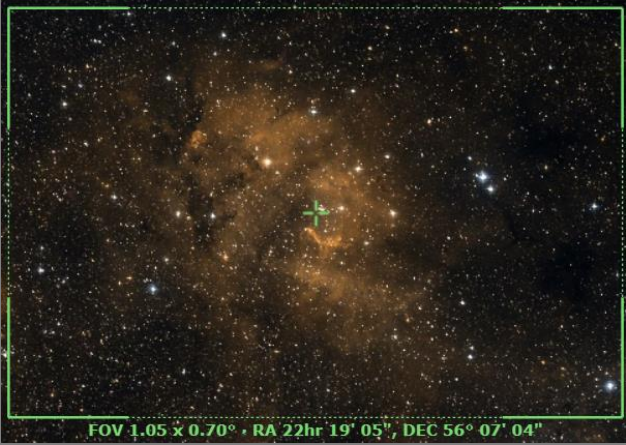
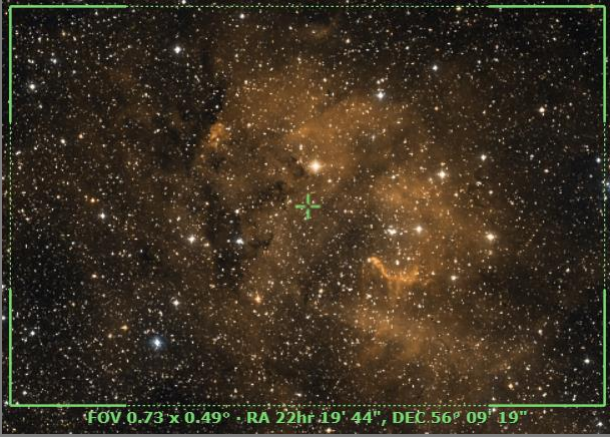

Prospective Imaging Objects – October 02, 2024

<p>NGC 7139 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Cepheus Coordinates: 21h 46' 07" +63° 47' 54"</p> <p>Close Star: SAO-019302 (Alderamin) Catalog Objects: NGC-7139 Imaging Window: 07:32 – 01:02 Transit: 09:22 60°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small; text-align: center;">NGC-7139 Constellation: Cepheus RA = 21h 46m 07.2s, DEC = +63deg 47' 54.0" Size = 18.5 x 13.9 arcmin Orientation = 0.7deg E of N Pixel scale = 0.277 arcsec/pixel FL = 2900mm</p> <p style="font-size: x-small; text-align: right;">James Yoder Date: 2022-12-19 Location: Chandler, AZ Config: C-11 HD ZWO6200MC Exposure Info: 27 Bins@2min Gain: 100 Offset: 50 </p>
<p>Dark Cocoon (B-168, IC 5146) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cygnus Coordinates: 21h 49' 08" 47° 28' 16"</p> <p>Close Star: SAO-5105 (Rho Cygni) Catalog Objects: B-168, IC-5146 Imaging Window: 07:32 – 01:22 Transit: 09:29 76°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small; text-align: center;">FOV 3.81 x 2.54° · RA 21hr 49' 08", DEC 47° 28' 16"</p>
<p>Cocoon Nebula (IC-5146) Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: 21h 52' 00" 47° 22' 37"</p> <p>Close Star: SAO-5105 (Rho Cygni) Catalog Objects: IC-5146 Imaging Window: 07:32 – 01:22 Transit: 09:29 76°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="font-size: small; text-align: center;">FOV 1.05 x 0.70° · RA 21hr 52' 00", DEC 47° 22' 37"</p>

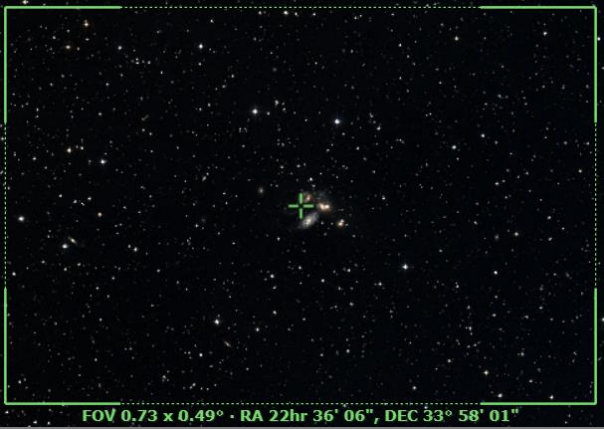


Prospective Imaging Objects – October 02, 2024

<p>Cocoon Nebula (IC-5146) Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: 21h 53' 24" 47° 16' 00"</p> <p>Close Star: SAO-5105 (Rho Cygni) Catalog Objects: IC-5146 Imaging Window: 07:32 – 01:22 Transit: 09:29 76°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Dark Shark (LDN 1235) Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus Coordinates: 22h 11' 49" 73° 12' 16"</p> <p>Close Star: SAO-20268 (Iota Cephei) Catalog Objects: LDN-1235 Imaging Window: 07:32 – 12:36 Transit: 09:51 50°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Helix Nebula (NGC-7293) Config: C11HD ZWO6200MC </p> <p>Type: Planetary nebula</p> <p>Constellation: Aquarius Coordinates: 22h 29' 39" -20° 48' 36"</p> <p>Close Star: SAO-164644 (Delta Cap) Catalog Objects: NGC-7293 Imaging Window: *08:15 – 11:52 Transit: 10:06 36°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 



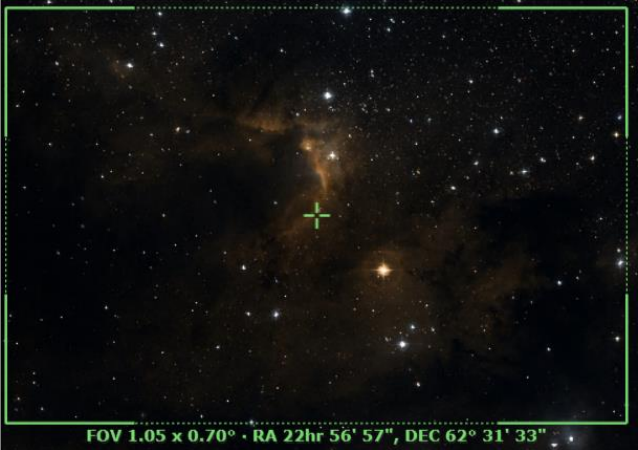
Prospective Imaging Objects – October 02, 2024

<p>SH2-132 Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cepheus Coordinates: 22h 19' 05" 56° 07' 04"</p> <p>Close Star: SAO-20268 (Iota Cephei) Catalog Objects: SH2-132 Imaging Window: 07:32 – 01:47 Transit: 09:55 67°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="text-align: center;">FOV 1.05 x 0.70° · RA 22hr 19' 05", DEC 56° 07' 04"</p>
<p>SH2-132 Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cepheus Coordinates: 22h 19' 44" 56° 09' 19"</p> <p>Close Star: SAO-20268 (Iota Cephei) Catalog Objects: SH2-132 Imaging Window: 07:32 – 01:47 Transit: 09:55 67°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;">FOV 0.73 x 0.49° · RA 22hr 19' 44", DEC 56° 09' 19"</p>
<p>Stephan's Quintet & NGC 7331 (NGC 7317, 7331) Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Pegasus Coordinates: 22h 36' 40" 34° 13' 25" Camera Rotation = 115° East (-245)</p> <p>Close Star: SAO-72191 (1 Lacertae) Catalog Objects: NGC7317, NGC7331</p> <p>Imaging Window: 07:32 – 01:53 Transit: 10:12 89°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="text-align: center;">FOV 1.05 x 0.70° · RA 22hr 36' 40", DEC 34° 13' 25"</p>




Prospective Imaging Objects – October 02, 2024

<p>Stephan's Quintet Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Pegasus Coordinates: 22h 36' 06" 33° 58' 01"</p> <p>Close Star: SAO-72191 (1 Lacertae) Catalog Objects: NGC7317 Imaging Window: 07:32 – 01:53 Transit: 10:12 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;">FOV 0.73 x 0.49° · RA 22hr 36' 06", DEC 33° 58' 01"</p>
<p>NGC-7331 Group (NGC-7331) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Cluster</p> <p>Constellation: Pegasus Coordinates: 22h 37' 15" 34° 24' 51"</p> <p>Close Star: SAO-72191 (1 Lacertae) Catalog Objects: NGC-7331 Imaging Window: 07:32 – 01:55 Transit: 10:13 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;">NGC 7331, NGC 7335, NGC 7337 Galaxy Group</p> <p style="text-align: right;">James W. Smith 2015.09.11</p>
<p>Wizard Nebula (SH 2-142)</p> <p>Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cepheus Coordinates: 22h 47' 26" 58° 03' 03"</p> <p>Close Star: SAO-20268 (Iota Cephei) Catalog Objects: SH2-142 Imaging Window: 07:32 – 02:14 Transit: 10:23 89°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="text-align: center;">FOV 1.05 x 0.70° · RA 22hr 47' 26", DEC 58° 03' 03"</p>

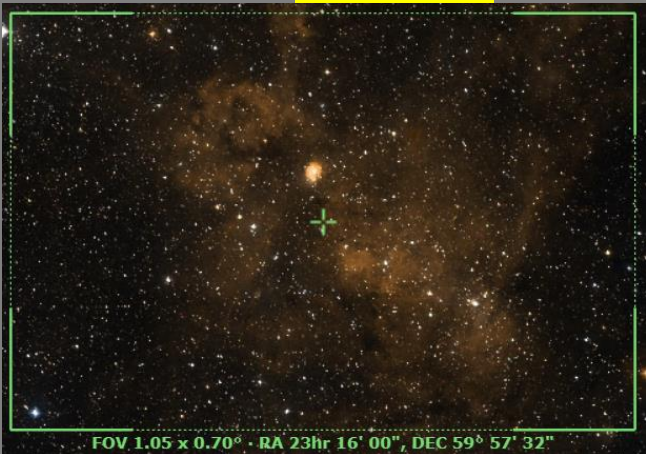


Prospective Imaging Objects – October 02, 2024

<p>Wizard Nebula (SH 2-142)</p> <p>Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cepheus</p> <p>Coordinates: 22h 47' 26" 58° 03' 03"</p> <p>Close Star: SAO-20268 (Iota Cephei)</p> <p>Catalog Objects: SH2-142</p> <p>Imaging Window: 07:32 – 02:14</p> <p>Transit: 10:23 89°</p>	<p>C-11 HD: Primary Focus</p>  <p><small>Wizard Nebula (NGC-7380) Constellation: Cepheus RA: 22h 47m 26s, DEC: 58° 03' 03" Size: 40.8 x 27.2 arcmin Orientation: 9.2deg E of N Pixel scale: 0.441 arcsec/pixel F1.200mm James Votaw (Sheddy) 2013 F1.25, 2020 03 04 Location: Chandler, AZ E-quip: C-11 HD, APM6400, T1.5, C11, ZWO 6200MC Exposure: 100 x 300sec @ Gain: 1200 Offset: 100</small></p>
<p>Cave Nebula (SH2-155)</p> <p>Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus</p> <p>Coordinates: 23h 00' 57" 62° 04' 09"</p> <p>Close Star: SAO-20268 (Iota Cephei)</p> <p>Catalog Objects: SH2-155</p> <p>Imaging Window: 07:32 – 02:16</p> <p>Transit: 10:33 61°</p>	<p>C-11 HD: HyperStar v4</p>  <p><small>SH2-155 (Cave Nebula) Constellation: Cepheus RA: 23h 00m 57s, DEC: 62° 04' 09" Size: 15.0 x 10.0 arcmin Orientation: 0.0deg E of N Pixel scale: 0.441 arcsec/pixel F1.200mm James Votaw (Sheddy) 2013 F1.25, 2020 03 04 Location: Chandler, AZ E-quip: C-11 HD, HyperStar v4, APM6400, T1.5, C11, ZWO 6200MC Exposure: 100 x 300sec @ Gain: 1200 Offset: 100</small></p>
<p>Cave Nebula (SH2-155)</p> <p>Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus</p> <p>Coordinates: 22h 56' 57" 62° 31' 33"</p> <p>Close Star: SAO-20268 (Iota Cephei)</p> <p>Catalog Objects: SH2-155</p> <p>Imaging Window: 07:32 – 02:16</p> <p>Transit: 10:33 61°</p>	<p>C-11 HD: Focal Reducer</p>  <p>FOV 1.05 x 0.70° · RA 22hr 56' 57", DEC 62° 31' 33"</p>




Prospective Imaging Objects – October 02, 2024

<p>Cave Nebula (SH2-155) Config: C11HD ZWO6200MC </p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus Coordinates: 22h 56' 57" 62° 31' 33"</p> <p>Close Star: SAO-20268 (Iota Cephei) Catalog Objects: SH2-155 Imaging Window: 07:32 – 02:16 Transit: 10:33 61°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Cave Nebula (SH2-155) James Yoder Location: Maunakea Ground, (2020-10-19), AZ Config: C-11 HD ZWO6200MC Exposure Info: 1600ms@5min Gain: 3200 OIBSet: 180</p>
<p>NGC-7479 (PGC-70419) Config: C11HD ZWO6200MC </p> <p>Type: Barred Spiral Galaxy</p> <p>Constellation: Pegasus Coordinates: 23h 04' 58" 12° 18' 37"</p> <p>Close Star: SAO-127340 (Baham) Catalog Objects: NGC-7479 Imaging Window: 07:49 – 01:38 Transit: 10:41 62°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">NGC-7479 Constellation: Pegasus RA = 23h 04m 58.2s DEC = +12deg 18' 37.3" Size = 31.4 x 21.0 arcmin Orientation: 0.0 deg E of N Pixel scale = 0.446 arcsec/pixel FL=2100mm James Yoder Location: Maunakea Ground, (2020-10-19), AZ Config: C-11 HD ZWO6200MC Exposure Info: 1600ms@5min Gain: 3200 OIBSet: 180</p>
<p>Lobster Claw and Bubble Nebula (SH2-157) Config: C11-HD HS ZWO6200MC</p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cassiopeia Coordinates: 23h 18' 25.8" 60° 31' 17.8"</p> <p>Close Star: SAO-21133 (Caph) Catalog Objects: SH2-157, NGC-7635 Imaging Window: 07:32 – 02:40 Transit: 10:52 63°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">Lobster Claw and Bubble Nebula (NGC-7635) Constellation: Cassiopeia RA = 23h 18m 25.8s DEC = +60deg 31' 17.8" Size = 2.68 x 1.79 deg Orientation: 0deg E of N Pixel scale = 2.28 arcsec/pixel FL=540mm James Yoder Date: (2020-10-21) Location: Chandler, AZ Config: C-11 HD HyperStar V4 Astrocam: C11-S4-CDD OIBV: 126 Exposure Info: 260ms@3min Gain: 3200 OIBSet: 180</p>




Prospective Imaging Objects – October 02, 2024

<p>Lobster Claw (SH2-157) Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cassiopeia Coordinates: 23h 16' 00" 59° 57' 32"</p> <p>Close Star: SAO-21133 (Caph) Catalog Objects: SH2-157 Imaging Window: 07:32 – 02:40 Transit: 10:52 63°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="text-align: center;">FOV 1.05 x 0.70° - RA 23hr 16' 00", DEC 59° 57' 32"</p>
<p>Bubble Nebula (NGC-7635) Config: C11HD ZWO6200MC </p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus Coordinates: 23h 20' 12" 61° 11' 00"</p> <p>Close Star: SAO-21133 (Caph) Catalog Objects: NGC-7635, SH2-162 Imaging Window: 07:32 – 02:42 Transit: 10:57 62°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;">Bubble Nebula (NGC-7635) Constellation: Cassiopeia</p>
<p>Pegasus Cluster (NGC-7619) Config: C11-HD FR ZWO6200MC </p> <p>Type: Cluster of Galaxies</p> <p>Constellation: Pegasus Coordinates: 23h 20' 13" 08° 11' 08"</p> <p>Close Star: SAO-128085 (g Piscium) Catalog Objects: NGC-7619 Imaging Window: 08:17 – 01:42 Transit: 10:56 65°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="text-align: center;">FOV 1.05 x 0.70° - RA 23hr 20' 13", DEC 08° 11' 08"</p>


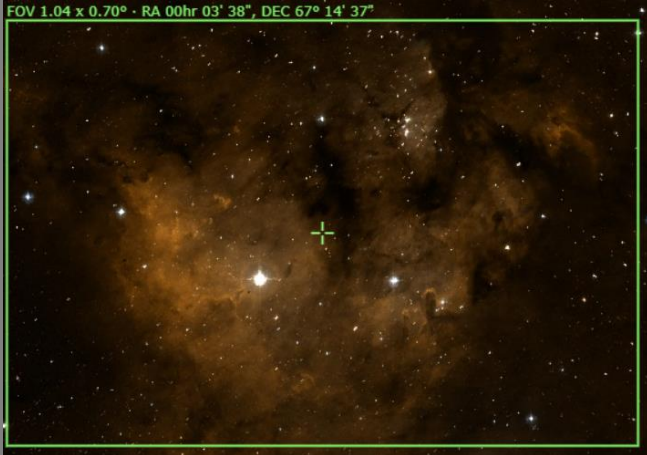

Prospective Imaging Objects – October 02, 2024

<p>Pegasus Cluster (NGC-7619) Config: C11HD ZWO6200MC </p> <p>Type: Cluster of Galaxies</p> <p>Constellation: Pegasus Coordinates: 23h 20' 13" 08° 10' 57"</p> <p>Close Star: SAO-128085 (g Piscium) Catalog Objects: NGC-7619 Imaging Window: 08:17 – 01:42 Transit: 10:56 65°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;">FOV 0.73 x 0.49° · RA 23hr 20' 13", DEC 08° 10' 57"</p>
<p>M-52 (NGC-7654) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Cassiopeia Coordinates: 23h 24' 48" 61° 36' 00"</p> <p>Close Star: SAO-21133 (Caph) Catalog Objects: M-52 Imaging Window: 07:32 – 02:46 Transit: 11:00 62°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;">FOV 0.73 x 0.49° · RA 23hr 24' 48", DEC 61° 36' 00"</p>
<p>Blue Snowball (NGC-7662) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Andromeda Coordinates: 23h 25' 54" 42° 32' 06"</p> <p>Close Star: SAO-53216 (Iota And) Catalog Objects: NGC-7662 Imaging Window: 07:32 – 02:52 Transit: 11:02 81°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;">FOV 0.73 x 0.49° · RA 23hr 25' 54", DEC 42° 32' 06"</p>

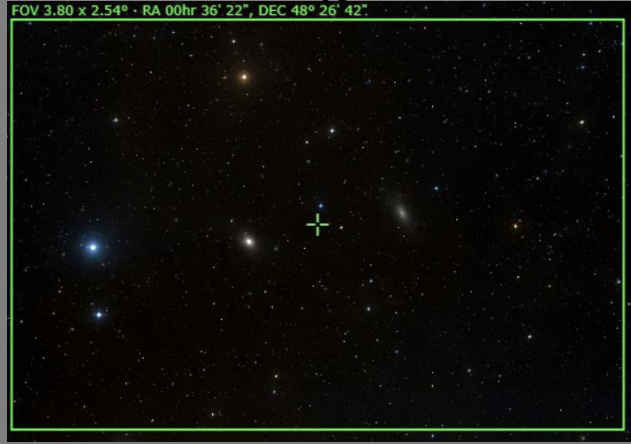
Prospective Imaging Objects – October 02, 2024

<p>Blue Match Nebula (SH2-155) Config: C11-HD HS ZWO6200MC</p> <p>Type: Reflection Nebula</p> <p>Constellation: Andromeda Coordinates: 23h 39' 24" 48° 51' 37" Nearby: NGC-7686 Close Star: SAO-73765 (Alpheratz) Catalog Objects: VdB 158/LBN 534 Imaging Window: 07:32 – 02:59 Transit: 11:05 81°</p>	<p>C-11 HD: HyperStar v4</p>  <p>FOV 3.81 x 2.54° · RA 23hr 39' 35" · DEC 48° 54' 43"</p>
<p>Caroline's Rose (NGC-7789) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Cassiopeia Coordinates: 23h 57' 37" 56° 42' 21"</p> <p>Close Star: SAO-21607 (Shedar) Catalog Objects: NGC-7789 Imaging Window: 07:48 – 03:25 Transit: 11:33 65°</p>	<p>C-11 HD: Primary Focus</p>  <p>FOV 0.73 x 0.49° · RA 23hr 57' 37" · DEC 56° 42' 21"</p>
<p>NGC-7822 (Ced-214) Config: C11-HD HS ZWO6200MC</p> <p>Type: Emission Nebula Constellation: Cepheus</p> <p>Coordinates: Frame 01 RA: 00hr 03' 42" DEC: 67° 41' 45" Frame 02 RA: 00hr 03' 42" DEC: 65° 35' 15"</p> <p>Close Star: SAO-10818 Catalog Objects: Ced 214, NGC 7822, SH2-171</p> <p>Imaging Window: 08:15 – 03:05 Transit: 11:37 56°</p>	<p>C-11 HD: HyperStar v4 Composite!</p>  <p>NGC-7822 Region</p>



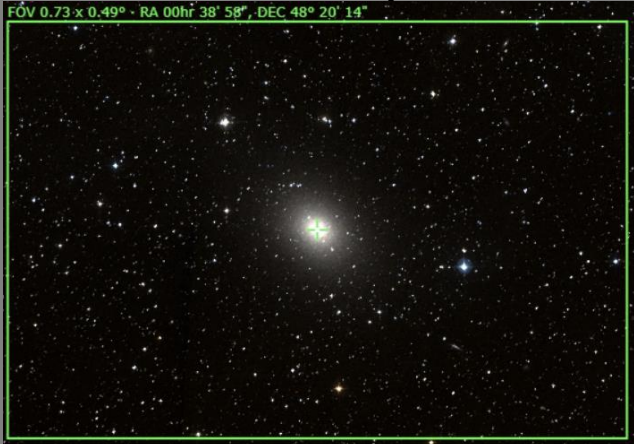
Prospective Imaging Objects – October 02, 2024

<p>NGC-7822 (CED-214) Config: C11-HD HS ZWO6200MC</p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cepheus Coordinates: 00h 01' 27" 67° 28' 37"</p> <p>Close Star: SAO-20268 Catalog Objects: NGC-7822/CED-214 Imaging Window: 08:15 – 03:05 Transit: 11:37 56°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">NGC-7822 Constellation: Cepheus</p> <p style="font-size: x-small; text-align: right;">Image Name: 2024_09_12_C11HD_HyperStar_v4 Location: Chantrelle, NJ Config: C11 HD HyperStar v4 HS ZWO6200MC Exposure Info: 20 Images/Frame Gain: 1300 Offset: 170</p>
<p>NGC-7822 (CED-214) Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cepheus Coordinates: 00h 03' 38" 67° 14' 37"</p> <p>Close Star: SAO-20268 Catalog Objects: NGC-7822/CED-214 Imaging Window: 08:15 – 03:05 Transit: 11:37 56°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="font-size: small;">FOV 1.04 x 0.70° - RA 00hr 03' 38", DEC 67° 14' 37"</p>
<p>NGC-7822 (CED-214) Config: C11HD ZWO6200MC </p> <p>Type: Emission Nebula Constellation: Cepheus Coordinates: 00h 01' 56" 67° 23' 05"</p> <p>Close Star: SAO-10818 Catalog Objects: Ced 214, NGC 7822, SH2-171 Imaging Window: 08:15 – 03:05 Transit: 11:37 56°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: x-small;">Bright Nebula NGC-7822 (Ced 214) Constellation: Cepheus RA = 00h 01m 43.300s, DEC = +67deg 23' 05.210" Size = 42.8 x 28.9 arcmin. Field angle = 0.847 arcmin/px</p> <p style="font-size: x-small; text-align: right;">Image Name: 2024_09_12_C11HD_PrimaryFocus Location: Chantrelle, NJ Config: C11 HD Astronomik C11 HD ZWO6200MC Exposure Info: 20 Images/Frame Gain: 1300 Offset: 180</p>


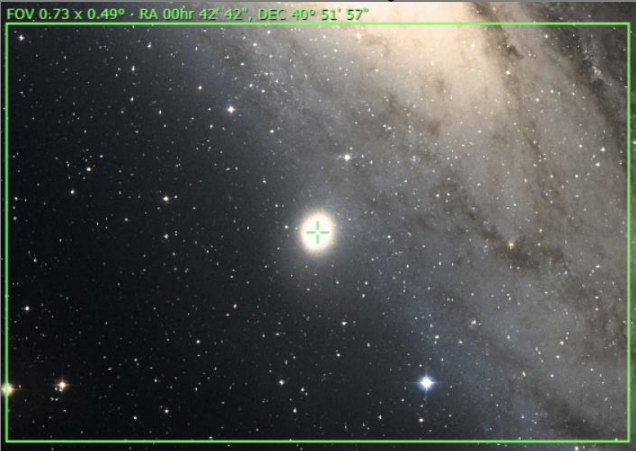

Prospective Imaging Objects – October 02, 2024

<p>Bow-Tie Nebula (NGC-40) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Cepheus Coordinates: 00h 13' 01" 72° 31' 21"</p> <p>Close Star: SAO-20268 Catalog Objects: NGC-40 Imaging Window: 09:00 – 02:44 Transit: 11:49 51°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Andromeda Galaxy Group Config: C11HD ZWO6200MC </p> <p>Type: Cluster of dim galaxies Peak:</p> <p>Constellation: Andromeda Coordinates: 00h 17' 58" 30° 03' 03"</p> <p>Close Star: SAO-73765 (Alpheratz) Catalog Objects: NGC 67-72 et. El.</p> <p>Imaging Window: 08:24 – 03:30 Transit: 11:54 87°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-147 & NGC-185 Config: C11-HD HS ZWO6200MC</p> <p>Type: Galaxy Pair</p> <p>Constellation: Cassiopeia Coordinates: 00h 36' 22" 48° 26' 42"</p> <p>Close Star: SAO-21609 (Shedar) Catalog Objects: NGC-147, NGC-185 Imaging Window: 08:22 – 04:02 Transit: 12:09 75°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 



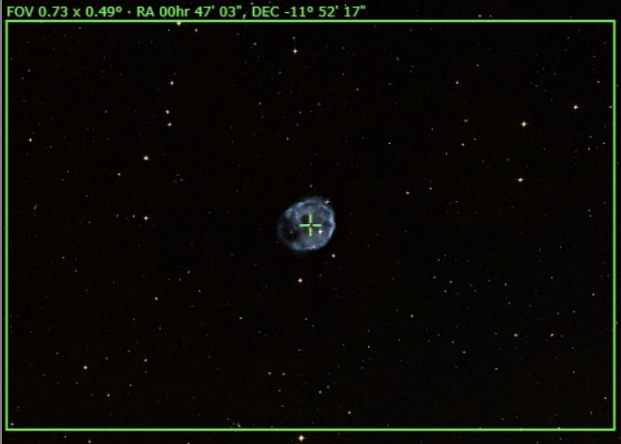
Prospective Imaging Objects – October 02, 2024

<p>NGC-147 & NGC-185 Config: C11-HD FR ZWO6200MC</p> <p>Type: Galaxy Pair</p> <p>Constellation: Cassiopeia Coordinates: Frame 01 RA: 00hr 38' 33" DEC: 48° 25' 44" Frame 02 RA: 00hr 33' 21" DEC: 48° 25' 44"</p> <p>Close Star: SAO-21609 (Shedar) Catalog Objects: NGC-147, NGC-185 Imaging Window: 08:22 – 04:02 Transit: 12:09 75°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer Composite!</p>  <p style="font-size: small;">Dwarf Galaxies NGC-185, NGC-147 Constellation: Cassiopeia RA = 00h 33m 08s DEC = 48deg 25' 44.7" Size = 12.1 x 9.2 arcmin (Observed - 0.84Mag @ 7") Pixel scale = 0.87 arcsec/pixel James Van Der Kuylen - 2013.09.27 Location: Andover Crossroads, Northfield, VT Config: C-11 HD Focal Reducer Filter: Baader Skyglow Filter QHY128K Exposure Info: 344img/Frame Gain: 3200 Offset: 100</p>
<p>NGC-147 Config: ZWO6200MC </p> <p>Type: Galaxy Peak: Constellation: Cassiopeia Coordinates: 00h 33' 07.245" 48° 30' 18.030"</p> <p>Close Star: SAO-37375 Catalog Objects: NGC-147</p> <p>Imaging Window: 08:22 – 04:02 Transit: 12:09 75°</p>	<p style="text-align: center;">Primary Focus</p>  <p style="font-size: small;">Dwarf Galaxy NGC-147 Constellation: Cassiopeia RA = 00h 33m 07.245s DEC = 48deg 30' 18.030" Size = 49.7 x 33.5 arcmin (Pixel scale = 0.579 arcsec/pixel) James Van Der Kuylen - 2013.09.27 Location: Andover Crossroads, Northfield, VT Config: C-11 LF Corrector Baader Skyglow Filter QHY128K Exposure Info: 344img/Frame Gain: 3200 Offset: 100</p>
<p>NGC-185 Config: C11-HD ZWO6200MC</p> <p>Type: Dwarf Spheroidal Galaxy</p> <p>Constellation: Cassiopeia Coordinates: 00h 38' 58" 48° 20' 14"</p> <p>Close Star: SAO-21609 (Shedar) Catalog Objects: NGC-185 Imaging Window: 08:27 – 04:08 Transit: 12:14 75°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> <p style="text-align: center; color: green;">FOV 0.73 x 0.49° - RA 00hr 38' 58", DEC 48° 20' 14"</p> 




Prospective Imaging Objects – October 02, 2024

<p>M-110 Config: C11-HD ZWO6200MC</p> <p>Type: Elliptical Galaxy</p> <p>Constellation: Andromeda Coordinates: 00h 40' 22" 41° 41' 07"</p> <p>Close Star: SAO-73765 (Sirrah) Catalog Objects: M-110 Imaging Window: 08:33 – 04:06 Transit: 12:16 82°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">M-110 (NGC-205) Constellation: Andromeda RA = 00h 40m 21.0s, DEC = +41d 41' 07.0" (Star = +41.2 27.7 arcsec / Orientation: N, Mag. of N: (Pixel scale = 0.446 arcsec/pixel) (F/5.762mm) Image taken: 08/08/2024 01:11:20:00 (4x12) Location: Clouds, AZ Camera: C-11 HD, Filter: None, Gain: 1000, ISO: 1600 Exposure: 120s, Filter: None, Gain: 1000, ISO: 1600</p>
<p>M-32 Config: C11-HD ZWO6200MC</p> <p>Type: Elliptical Galaxy</p> <p>Constellation: Andromeda Coordinates: 00h 42' 42" 40° 51' 57"</p> <p>Close Star: SAO-73765 (Sirrah) Catalog Objects: M-32 Imaging Window: 08:36 – 04:07 Transit: 12:18 83°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">FOV 0.73 x 0.49° - RA 00hr 42m 42", DEC 40° 51' 57"</p>
<p>Andromeda Galaxy (M 31) Config: C11 HS ZWO6200MCc </p> <p>Type: Galaxy Peak: Oct 1 Constellation: Andromeda Coordinates: 00h 43' 03.089" 41° 18' 37.05"</p> <p>Close Star: SAO-54281 Catalog Objects: M-31, M-32, M-110, NGC-224, NGC-206</p> <p>Imaging Window: 10:30 – 04:38 Transit: 12:18 82°</p>	<p style="text-align: center;">Hyperstar</p>  <p style="font-size: small;">The Great Andromeda Galaxy (M-31 & M32) Constellation: Andromeda Image taken: 2024-10-01 Location: Mountain View, California, AZ Camera: C-11 HD, Filter: None, Gain: 1000, ISO: 1600 Exposure: 120s, Filter: None, Gain: 1000, ISO: 1600</p>

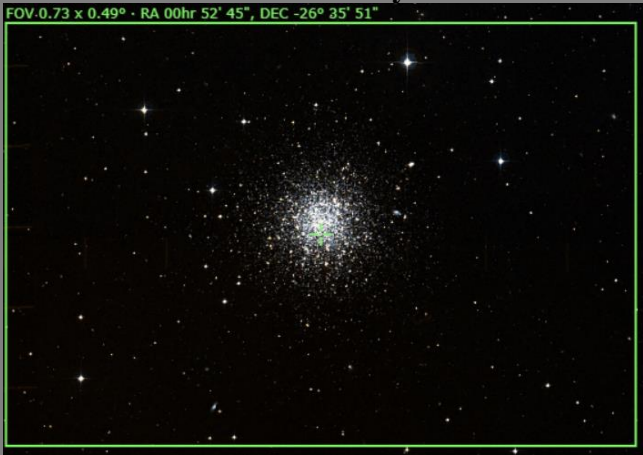


Prospective Imaging Objects – October 02, 2024

<p>M-31, M-32 Config: C11-HD HS ZWO6200MC</p> <p>Type: Andromeda Galaxy</p> <p>Constellation: Andromeda Coordinates: 00h 42' 44" 41° 16' 08" Angle: 133° East</p> <p>Close Star: SAO-73765 (Sirrah) Catalog Objects: M-31, M-32 Imaging Window: 10:30 – 04:38 Transit: 12:18 82°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small; text-align: center;">The Andromeda Galaxy (M-31, M-32, NGC-224) Constellation: Andromeda RA = 00h 42m 44s, DEC = +41° 16' 08" (J2000.0) Orientation: 00deg E of N (Pixel scale = 0.47 arcsec/pixel) F1.11900mm</p> <p style="font-size: x-small; text-align: right;">Image taken: 2024-07-23 21:01:00 Location: Chanhassen, FL Config: C11-HD HyperStar v4 ZWO6200MC Exposure time: 1200 seconds (1200 frames) Gain: 100 (Offset: 0)</p>
<p>NGC246, NGC255, PGC 2689 Config: C11-HD HS ZWO6200MC</p> <p>Type: Planetary Nebula, 2 Galaxies</p> <p>Constellation: Cetus Coordinates: 00h 47' 00" -11° 40' 40"</p> <p>Close Star: SAO-147420 (Diphda) Catalog Objects: NGC-246 Imaging Window: *09:37 – 03:10 Transit: 12:23 45°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="font-size: small; text-align: center;">Skull Nebula (NGC-246) and Galaxy NGC-255 Constellation: Cetus the Whale RA = 00h 47m 00s, DEC = -11deg 40' 40" (J2000.0) Orientation: 150deg E of N (Pixel scale = 0.579 arcsec/pixel) F1.11900mm</p> <p style="font-size: x-small; text-align: right;">Image taken: 2024-07-23 Location: Chanhassen, FL Config: C11-HD 0.7 Focal Reducer FWHR 8x8x8 Camera: QHY128C Exposure time: 30000 frames Gain: 2000 (Offset: 100)</p>
<p>Skull Nebula (NGC-246) Config: C11-HD ZWO6200MC</p> <p>Type: Planetary Nebula</p> <p>Constellation: Cetus Coordinates: 00h 47' 03" -11° 52' 17"</p> <p>Close Star: SAO-147420 (Diphda) Catalog Objects: NGC-246 Imaging Window: *09:37 – 03:10 Transit: 12:23 45°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: x-small; text-align: center;">FOV 0.73 x 0.49° - RA 00hr 47' 03", DEC -11° 52' 17"</p>



Prospective Imaging Objects – October 02, 2024

<p>Needle's Eye Galaxy (NGC 247) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Peak: Constellation: Cetus Coordinates: 00hr 47' 12" -20° 44' 38"</p> <p>Close Star: SAO-147420 Catalog Objects: NGC 247</p> <p>Imaging Window: *09:56 – 02:55 Transit: 12:23 36°</p>	<p>C-11 HD: Primary Focus</p>  <p><small>Needle's Eye Galaxy (NGC-247) Constellation: Cetus RA = 00h 47m 12s, DEC = -20deg 44' 38" Size = 41 x 1,377 pixels Orientation: 0.65deg E of N Pixel scale = 0.448 arcsec/pixel FL = 2000mm</small></p> <p><small>James Yoder Date: 2024-04-11 Location: Chandler, AZ Config: C-11 HD Shadur Riggle QHY128K Exposure Info: 1000x30sec Gain: 3200 Offset: 180</small></p>
<p>NGC-288, NGC-253 Config: C11-HD HS ZWO6200MC</p> <p>Type: Globular and Galaxy</p> <p>Constellation: Sculptor Coordinates: 00h 50' 03" -25° 54' 37"</p> <p>Close Star: SAO-147420 (Diphda) Catalog Objects: NGC-288, NGC-253 Imaging Window: *10:26 – 02:25 Transit: 12:23 31°</p>	<p>C-11 HD: HyperStar v4</p>  <p><small>Sculptor galaxy (NGC-253) and Globular Cluster (NGC-288) Constellation: Sculptor RA = 00h 50m 03s, DEC = -25deg 54' 37" Size = 3.14 x 2.09 deg Orientation: 0deg E of N Pixel scale = 1.226 arcsec/pixel FL = 540mm</small></p> <p><small>James Yoder Date: 2020-12-14 Location: Maricopa Central Trailhead, AZ Config: C-11HD HyperStar V4 Shadur Riggle QHY128K Exposure Info: 2100x30sec Gain: 3200 Offset: 180</small></p>
<p>Sculptor Galaxy (NGC-253) Config: C11-HD ZWO6200MC</p> <p>Type: Spiral Galaxy</p> <p>Constellation: Sculptor Coordinates: 00h 47' 33" -25° 17' 15"</p> <p>Close Star: SAO-147420 (Diphda) Catalog Objects: NGC-253 Imaging Window: *10:26 – 02:25 Transit: 12:23 31°</p>	<p>C-11 HD: Primary Focus</p>  <p><small>Sculptor Galaxy (NGC 253) Constellation: Sculptor</small></p> <p><small>James Yoder Date: 2024-08-21 Location: Chandler, AZ Config: C11 Shadur LF Corrector Shadur Moon Filter QHY128K Exposure Info: 1000x30sec Gain: 3200 Offset: 180</small></p>

Prospective Imaging Objects – October 02, 2024

<p>NGC-288 Config: C11-HD ZWO6200MC</p> <p>Type: Globular Cluster</p> <p>Constellation: Sculptor Coordinates: 00h 52' 45" -26° 35' 51"</p> <p>Close Star: SAO-147420 (Diphda) Catalog Objects: NGC-288 Imaging Window: *10:45 – 02:14 Transit: 12:28 31°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-188 Config: C11-HD FR ZWO6200MC</p> <p>Type: Open Cluster</p> <p>Constellation: Cepheus Coordinates: 00h 47' 30" 85° 15' 30"</p> <p>Close Star: SAO-308 (Polaris) Catalog Objects: NGC-188 Imaging Window: *07:32 – 05:00 Transit: 12:23 38°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>NGC-281 Config: C11-HD FR ZWO6200MC</p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cassiopeia Coordinates: 00h 53' 00" 56° 37' 00"</p> <p>Close Star: SAO-11482 (Navi) Catalog Objects: NGC-281 Imaging Window: 08:43 – 04:20 Transit: 12:28 67°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 




Prospective Imaging Objects – October 02, 2024

<p>Gamma Cassiopeiae Nebula (SH2-185) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula</p> <p>Constellation: Cassiopeia Coordinates: 01h 03' 11" 60° 42' 24"</p> <p>Close Star: SAO-11482 (Navi) Catalog Objects: SH2-185 Imaging Window: 08:55 – 04:22 Transit: 12:35 62°</p>	<p>C-11 HD: HyperStar v4</p>  <p><small>Gamma Cassiopeiae Nebula (SH2-185, IRLN-620, IC-59 & IC-163) Constellation: Cassiopeia RA: 01h 03m 11.82s, DEC: 60° 42' 24.10"</small></p>
<p>Gamma Cassiopeiae Nebula (SH2-185) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula</p> <p>Constellation: Cassiopeia Coordinates: 00h 58' 48" 61° 04' 02"</p> <p>Close Star: SAO-11482 (Navi) Catalog Objects: SH2-185 Imaging Window: 08:55 – 04:22 Transit: 12:35 62°</p>	<p>C-11 HD: Primary Focus</p> <p>FOV 0.73 x 0.49° - RA, 00hr 58' 48", DEC 61° 04' 02"</p> 
<p>IC-1613 Config: C11-HD ZWO6200MC</p> <p>Type: Irregular Dwarf Galaxy</p> <p>Constellation: Cetus Coordinates: 01h 04' 48" 02° 07' 07"</p> <p>Close Star: SAO-75151 (Hamal) Catalog Objects: IC-1613 Imaging Window: 10:25 – 03:02 Transit: 12:40 59°</p>	<p>C-11 HD: Primary Focus</p> <p>FOV 0.73 x 0.49° - RA 01hr 04' 48", DEC 02° 07' 07"</p> 

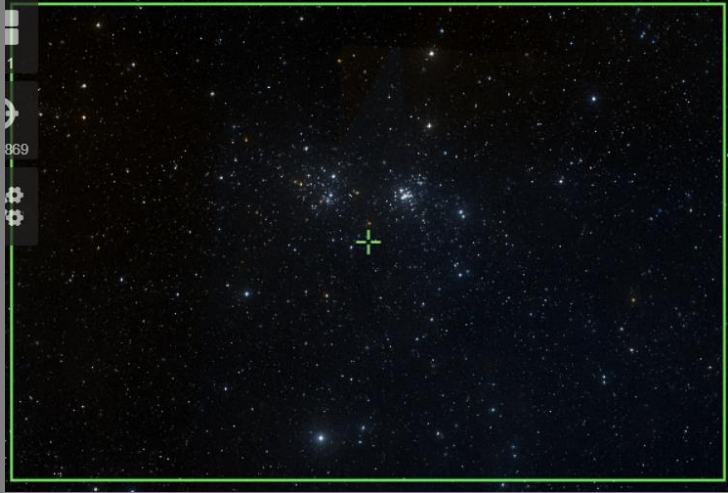


Prospective Imaging Objects – October 02, 2024

<p>Minkowski's Object (Arp-133) Config: C11-HD HS ZWO6200MC</p> <p>Type: Galaxy Cluster Constellation: Cetus Coordinates: 01h 25' 27" -01° 29' 03"</p> <p>Close Star: SAO-75151 (Hamal) Catalog Objects: ARP-133 Imaging Window: 11:03 – 03:06 Transit: 01:01 55°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Firefox Nebula (Sh 2-188) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Cassiopeia Coordinates: 01h 31' 37" 58° 21' 22"</p> <p>Close Star: SAO-22268 (Ruchbah) Catalog Objects: Sh 2-188</p> <p>Imaging Window: 09:22 – 04:56 Transit: 01:06 65°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-103 (NGC-581) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster Constellation: Cassiopeia Coordinates: 01h 33' 31" 60° 39' 44"</p> <p>Close Star: ISO-22268 (Ruchbah) Catalog Objects: M-103/NGC-581</p> <p>Imaging Window: 09:28 – 04:56 Transit: 01:09 63°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 


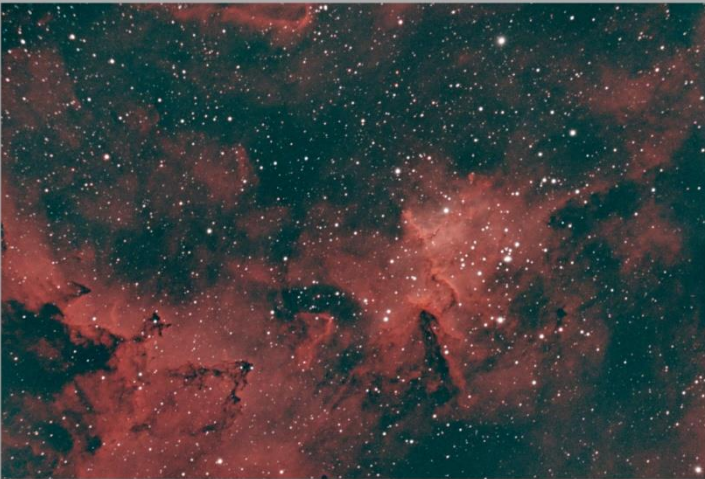

Prospective Imaging Objects – October 02, 2024

<p>M-74 Config: C11HD ZWO6200MC </p> <p>Type: Spiral Galaxy Peak: Constellation: Pisces Coordinates: 01h 36' 42" 15° 46' 60"</p> <p>Close Star: ISO-91781 (Algenib) Catalog Objects: M-74</p> <p>Imaging Window: 10:12 – 04:19 Transit: 01:12 72°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Spiral Galaxy M-74 (NGC-628) Constellation: Pisces RA = 01h 36m 42.25s DEC = +15deg 46' 58.03" Size = 42.1 x 28.1 arcmin. (Pixel scale = 0.441 arcsecond) James VanDyke Location: Messier ground Truthed, AZ Config: C-11 HD (SPT) [100] Exposure Info: 480000000 (Gain: 2300) (Offset: 180)</p>
<p>Little Dumbbell Nebula (M-76) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Peak: Constellation: Perseus Coordinates: 01h 42' 18" 51° 34' 17"</p> <p>Close Star: ISO-37375 Catalog Objects: M-76/ NGC-650 Imaging Window: 09:31 – 05:00 Transit: 01:18 72°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Little Dumbbell Nebula (M-76, NGC-650) Constellation: Perseus RA = 01h 42m 18.25s DEC = +51deg 34' 17.03" Size = 36.8 x 24.5 arcmin. (Orientation: 0 deg E of N) (Pixel scale = 0.440 arcsecond) (FL = 2000mm) James VanDyke Location(s): Messier Ground Truthed, AZ Config: C-11 HD (SPT) [100] Exposure Info: 480000000 (Gain: 2300) (Offset: 180)</p>
<p>Nautilus Galaxy (NGC-772) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Peak: Constellation: Aries Coordinates: 01h 59' 19" 19° 00' 27"</p> <p>Close Star: ISO-75012 (Sheratan) Catalog Objects: NGC-772</p> <p>Imaging Window: 10:26 – 04:50 Transit: 01:35 76°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Nautilus Galaxy (NGC-772) Constellation: Aries RA = 01h 59m 19.25s DEC = +19deg 00' 27.03" Size = 36.8 x 24.5 arcmin. (Orientation: 0 deg E of N) (Pixel scale = 0.440 arcsecond) (FL = 2000mm) James VanDyke Location(s): Messier Ground Truthed, AZ Config: C-11 HD (SPT) [100] Exposure Info: 480000000 (Gain: 2300) (Offset: 180)</p>

Prospective Imaging Objects – October 02, 2024

<p>Hand chi Persei (NGC 869, 884) Config: C11-HD HS ZWO6200MC</p> <p>Type: Double Open Cluster Peak: October 28 Constellation: Perseus Coordinates: 02hr 20' 31" 56° 54' 05"</p> <p>Close Star: SAO-22258 (Ruchbah) Catalog Objects: NGC 869, 884</p> <p>Imaging Window: 10:13 – 05:00 Transit: 01:58 66°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>Edge On Galaxy (NGC 891) Config: C1 LF ZWO6200MC </p> <p>Type: Galaxy Peak: Oct 27 Constellation: Andromeda Coordinates: 02h 23' 43.29" 42° 25' 46.4"</p> <p>Close Star: SAO-37734 Catalog Objects: NGC891</p> <p>Imaging Window: 10:14 – 05:00 Transit: 01:58 81°</p>	<p style="text-align: center;">Primary Focus</p>  <p><small>Edge On Spiral Galaxy NGC 891</small></p>
<p>NGC-925 (PGC 9332) Config: C11-HD ZWO6200MC </p> <p>Type: Galaxy Constellation: Triangulum Coordinates: 02h 27' 17" 33° 34' 44"</p> <p>Close Star: SAO-55306 (Beta Trianguli) Catalog Objects: NGC925/PGC9332</p> <p>Imaging Window: 10:28 – 05:00 Transit: 02:03 90°</p>	<p style="text-align: center;">Primary Focus</p>  <p><small>NGC-925 Primary Focus Galaxy in Triangulum</small></p>




Prospective Imaging Objects – October 02, 2024

<p>Heart Nebula (IC 1805) Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula Constellation: Cassiopeia Coordinates: 02hr 26' 36" 62° 06' 53"</p> <p>Close Star: SAO-12031 Catalog Objects: IC 1805</p> <p>Imaging Window: 10:29 – 05:00 Transit: 02:08 62°</p>	<p style="text-align: center;">CH11-HD Focal Reducer</p>  <p style="font-size: small;">Heart Nebula core (IC-1805) Constellation: Cassiopeia RA = 02h 26m 36.50s DEC = +62deg 06' 53.00" Date = 2024-07-23 13:44:44 Camera: Focal Reducer Pixel scale = 0.927 arc/pixel James VanDer... 2024-07-23 Location: Chandler, AZ Config: C11-HD 0.7 Reducer Astromaster CLS-CCD ORV128C Exposure Info: 300img/5min Gain: 3000 Offset: 100</p>
<p>Heart Nebula (IC-1805) Config: C1 LF ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: October 31 Constellation: Cassiopeia Coordinates: 02hr 32' 42" 61° 27' 00"</p> <p>Close Star: SAO-12031 Catalog Objects: IC 1805</p> <p>Imaging Window: 10:29 – 05:00 Transit: 02:08 62°</p>	<p style="text-align: center;">Primary Focus</p>  <p style="font-size: small;">Heart Nebula Core (IC-1805) Constellation: Cassiopeia James VanDer... 2024-09-14 Location: Chandler, AZ Config: C1 Starline LF Reducer OPT Trail Filter ORV128C Exposure Info: 200img/5min Gain: 3100 Offset: 170</p>
<p>M-77, NGC 1055 Config: C11-HD FR ZWO6200MC </p> <p>Type: Galaxy Peak: Constellation: Cetus Coordinates: 02hr 42' 14" 00° 14' 28" Angle: 90°</p> <p>Close Star: SAO-110665 Catalog Objects: M-77, NGC-1055, NGC-1068</p> <p>Imaging Window: 12:10 – 04:31 Transit: 02:17 57°</p>	<p style="text-align: center;">CH11-HD Focal Reducer</p>  <p style="font-size: small;">Galaxies NGC-1055, M-77, NGC-1072 Constellation: Cetus RA = 02h 42m 21.5s DEC = +00deg 14' 13.5" Size = 55.2 x 39.3 arcmin Orientation: -90. Mag E of N Pixel scale = 0.579 arcsec/pixel FL=145mm James VanDer... 2024-12-26 21:22 Location: Chandler, AZ Config: C11-HD 0.7 Reducer Filters: Baader Skyglow, CLS-CCD, IDAS LPS-42 Camera: ORV128C Exposure Info: 340img/5min Gain: 3200 Offset: 100</p>


Prospective Imaging Objects – October 02, 2024

<p>NGC-1055 Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Peak: Constellation: Cetus Coordinates: 02hr 41' 50" 00° 29' 48"</p> <p>Close Star: SAO-110665 Catalog Objects: NGC-1055</p> <p>Imaging Window: 12:10 – 04:31 Transit: 02:17 57°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-34 (NGC-1039) Config: C11-HD ZWO6200MC </p> <p>Type: Open Cluster Constellation: Perseus Coordinates: 02h 42' 05" 42° 45' 42"</p> <p>Close Star: SAO-38592 (Algol) Catalog Objects: M-34/NGC-1039</p> <p>Imaging Window: 10:34 – 05:00 Transit: 02:17 81°</p>	<p style="text-align: center;">Primary Focus</p> 
<p>M 77 (NGC 1068) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Peak: Constellation: Cetus Coordinates: 02hr 42' 34" 00° 02' 07"</p> <p>Close Star: SAO-110665 Catalog Objects: M 77, NGC-1068</p> <p>Imaging Window: 12:13 – 04:30 Transit: 02:18 57°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

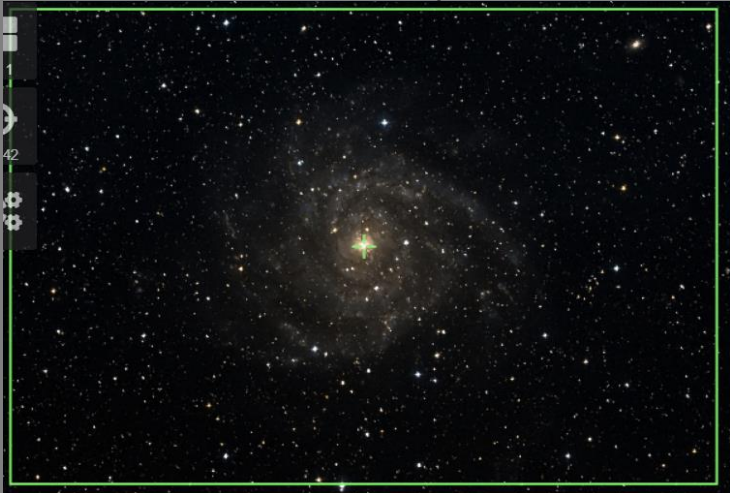


Prospective Imaging Objects – October 02, 2024

<p>Soul Nebula (IC-1848) Config: C11-HD HS ZWO6200MC</p> <p>Type: Diffuse Nebula Peak: Constellation: Cassiopeia Coordinates: 02hr 57' 16" 60° 37' 37"</p> <p>Close Star: SAO-38787 (Mirfak) Catalog Objects: IC 1848</p> <p>Imaging Window: 10:46 – 05:00 Transit: 02:27 63°</p>	<p>C-11 HD: HyperStar v4</p>  <p><small>Soul Nebula (IC-1848) Constellation: Cassiopeia</small></p> <p><small>James Yule - 2018-08-20 Location: Chandler, AZ Config: C11 HyperStar Apm200mm LRGB 1200x1280 Exposure Info: 240mins@5min (Gain: 3200) Offset: 180</small></p>
<p>Soul Nebula (IC-1848) Config: C1 LF ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Cassiopeia Coordinates: 02hr 57' 16" 60° 37' 37"</p> <p>Close Star: SAO-38787 (Mirfak) Catalog Objects: IC 1848</p> <p>Imaging Window: 10:46 – 05:00 Transit: 02:27 63°</p>	<p>Primary Focus</p>  <p><small>Soul Nebula (IC-1848) Constellation: Cassiopeia</small></p> <p><small>James Yule - 2018-12-09 Location: Chandler, AZ Config: C11 Stronova LF Redox D1600 Blue QHY170C Exposure Info: 270mins@5min Gain: 3000 Offset: 180</small></p>
<p>Perseus Galaxy Cluster Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Cluster Peak: Constellation: Perseus Coordinates: 03hr 19' 58" 41° 29' 13"</p> <p>Close Star: SAO-38592 (Algol) Catalog Objects: Abell-426, NGC1275, 1278, 1272, Et. El.</p> <p>Imaging Window: 11:12 – 05:00 Transit: 02:55 82°</p>	<p>C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – October 02, 2024

<p>NGC-1333 Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula Peak: November 13 Constellation: Perseus Coordinates: 03hr 29' 15" 31° 20' 12"</p> <p>Close Star: SAO-56799 Catalog Objects: NGC 1333</p> <p>Imaging Window: 11:33 – 05:00 Transit: 03:04 88°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-1360 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Peak: Constellation: Fornax Coordinates: 03hr 33' 15" -25° 52' 16"</p> <p>Close Star: SAO-168460 Catalog Objects: NGC-1360</p> <p>Imaging Window: *01:14 – 04:59 Transit: 03:08 31°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>IC-348 Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Perseus Coordinates: 03hr 44' 26" 32° 10' 54"</p> <p>Close Star: SAO-147420 Catalog Objects: IC-348</p> <p>Imaging Window: 11:47 – 05:00 Transit: 03:20 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

Prospective Imaging Objects – October 02, 2024

<p>IC-342 Config: C11HD ZWO6200MC </p> <p>Type: Barred Spiral Galaxy Peak: Constellation: Camelopardalis Coordinates: 03hr 46' 48" 68° 05' 44"</p> <p>Close Star: SAO-12031 (Segin) Catalog Objects: IC-342</p> <p>Imaging Window: 11:47 – 05:00 Transit: 03:20 55°</p>	<p>C-11 HD: Primary Focus</p> 
<p>Pleiades (M 45) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula Peak: November 16 Constellation: Taurus Coordinates: 03hr 46' 07" 24° 11' 18"</p> <p>Close Star: SAO-56799 Catalog Objects: M45</p> <p>Imaging Window: 12:03 – 05:00 Transit: 03:21 81°</p>	<p>C-11 HD: HyperStar v4</p>  <p><small>The Pleiades (M-45) Constellation: Taurus</small></p> <p><small>James VanDerKam 2018-10-05 Location: Mesaona, Colorado, US Config: C11 HyperStar (QHY12K) Exposure Info: 200img/Star (Gain: 3184) (Offset: 170)</small></p>
<p>Pleiades (M-45) Config: C1 LF ZWO6200MC </p> <p>Type: Bright Nebula Peak: November 16 Constellation: Taurus Coordinates: 03hr 46' 15.932" 24° 12' 07.154"</p> <p>Close Star: SAO-56799 Catalog Objects: M45</p> <p>Imaging Window: 12:03 – 05:00 Transit: 03:21 81°</p>	<p>Primary Focus</p>  <p><small>The Pleiades (M-45) Constellation: Taurus</small></p> <p><small>James VanDerKam 2019-09-27 Location: Mesaona, Colorado, US Config: C11 LF Coronado Starwave (QHY12K) Exposure Info: 200img/Star (Gain: 3200) (Offset: 180)</small></p>

Prospective Imaging Objects – October 02, 2024

<p>California Nebula (NGC 1499) Config: C11-HD HS ZWO6200MC</p> <p>Type: Diffuse Nebula Peak: November 22 Constellation: Perseus Coordinates: 04hr 01' 22" 36° 21' 19"</p> <p>Close Star: SAO-56840 Catalog Objects: NGC 1499</p> <p>Imaging Window: 12:01 – 05:00 Transit: 03:38 87°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">California Nebula (NGC-1499) Constellation: Perseus</p> <p style="font-size: x-small; text-align: right;">James Voder 2019.08.31 Location: Chandler, AZ Config: C11 HyperStar Astronomik U.S.A.-CCD C11HD Exposure Info: 220img/5min Gain: 3200 Offset: 180</p>
<p>Oyster Nebula (NGC 1501) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Constellation: Camelopardalis Coordinates: 04hr 06' 58" 60° 55' 3.5"</p> <p>Close Star: SAO-038787 (Mirfak) Catalog Objects: NGC-1501</p> <p>Imaging Window: 12:02 – 05:00 Transit: 03:42 62°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: x-small;">NGC-1501 (Oyster Nebula) Constellation: Camelopardalis [RA = 04h 06m 58.2s, DEC = +60deg 55' 03.5"] Size = 18.5 x 13.9 arcmin Orientation: -0.5deg E of N Pixel scale = 0.277 arcsecond FL = 2000mm</p> <p style="font-size: x-small; text-align: right;">James Voder Datas 2021.12.19 Location: Chandler, AZ Config: C-11 HD FPI Triad Radon Ultra ZWO 6200MC Exposure Info: 12.7img/20min Gain: 100 Offset: 50</p>
<p>Crystal Ball Nebula (NGC 1514) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Constellation: Taurus Coordinates: 04hr 09' 17" 30° 46' 35"</p> <p>Close Star: SAO-56799 Catalog Objects: NGC-1514</p> <p>Imaging Window: 12:14 – 05:00 Transit: 03:44 87°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: x-small;">NGC-1514 (Crystal Ball Nebula) Constellation: Taurus [RA = 04h 09m 17.6s, DEC = +30deg 46' 36.0"] Size = 18.5 x 13.9 arcmin Orientation: 0.4deg E of N Pixel scale = 0.278 arcsecond FL = 2000mm</p> <p style="font-size: x-small; text-align: right;">James Voder Datas 2020.12.09 Location: Chandler, AZ Config: C-11 HD FPI Triad Ultra ZWO 6200MC Exposure Info: 44.8img/20min Gain: 100 Offset: 50</p>




Prospective Imaging Objects – October 02, 2024

<p>Cleopatra's Eye (NGC 1535) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Constellation: Eridanus Coordinates: 04hr 14' 16" -12° 44' 20"</p> <p>Close Star: SAO-131907 (Rigel) Catalog Objects: NGC-1535</p> <p>Imaging Window: *01:11 – 05:00 Transit: 03:49 44°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Planetary Nebula NGC-1535 (Cleopatra's Eye) Date/Time: 2024-07-25 01:10:25.00 Location: Abasco, AZ Constellation: Eridanus Config: C-11 HD (Foc: 1800) (ZWO6200MC) [RA=04:14:16.15 DEC=-12:44:20.0] Size=22.4 x 15.1 Distance: 0.6 kly [C11HD] Filter: None [F1.0] [F1.0] [F1.0] Exposure: 300.00sec Gain: 100.00e ADU</p>
<p>Hind's Variable Nebula (NGC 1555) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Constellation: Taurus Coordinates: 04hr 21' 54" 19° 32' 00"</p> <p>Close Star: SAO-94027 (Aldebaran) Catalog Objects: NGC-1555</p> <p>Imaging Window: 12:48 – 05:00 Transit: 03:57 76°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> <p style="text-align: center; color: green; font-weight: bold;">FOV 0.73 x 0.48° · RA 04hr 21' 54", DEC 19° 32' 00"</p> 
<p>Hyades (Mel 25) Config: C11-HD HS ZWO6200MC</p> <p>Type: Open Cluster Constellation: Taurus Coordinates: 04hr 26' 34" 15° 31' 39"</p> <p>Close Star: SAO-56840 Catalog Objects: Mel 25</p> <p>Imaging Window: 01:02 – 05:00 Transit: 04:05 73°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 




Prospective Imaging Objects – October 02, 2024

<p>Trifid of the North (NGC 1579) Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Perseus Coordinates: 04hr 30' 12" 35° 16' 60"</p> <p>Close Star: SAO-56799 Catalog Objects: NGC-1579</p> <p>Imaging Window: 12:29 – 05:00 Transit: 04:05 88°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Witch Head Nebula (IC 2118) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula Peak: Constellation: Eridanus Coordinates: 05hr 05' 19.872" -06° 56' 00.365"</p> <p>Close Star: SAO-131794 Catalog Objects: IC 2118</p> <p>Imaging Window: *01:37 – 05:00 Transit: 04:37 49°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">Witch Head Nebula (IC-2118) Constellation: Eridanus RA = 05h 05m 19.872s DEC = -06deg 56' 00.365" Size = 2.66 x 1.78 deg Pixel scale = 2.27 arcsec/pixel</p> <p style="font-size: x-small; text-align: right;">James Yoder 2019-09-28 Location: Chandler, AZ Config: C11 HyperStar Baader Skyglow CDDV 126s Exposure Info: 54frames@90s Gain: 3200 Offset: 180 </p>
<p>Witch Head Nebula (IC 2118) Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Eridanus Coordinates: 05hr 07' 07" -06° 20' 07"</p> <p>Close Star: SAO-131794 Catalog Objects: IC 2118</p> <p>Imaging Window: *01:37 – 05:00 Transit: 04:37 49°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – October 02, 2024

<p>Foxface Nebula (NGC 1788) Config: C11 HS ZWO6200MCc Type: Bright Nebula Peak: Constellation: Orion Coordinates: 05hr 06' 10" -04° 04' 26"</p> <p>Close Star: SAO-131794 Catalog Objects: NGC 1788</p> <p>Imaging Window: 02:55 – 05:00 Transit: 04:42</p>	<p style="text-align: center;">Hyperstar</p>  <p>FOV 3.80 x 2.54° · RA 05hr 06' 10", DEC -04° 04' 26"</p> <p>A Hyperstar image showing the Foxface Nebula in Orion. The image is a wide-field view with a green crosshair marking the peak of the nebula. The field of view is 3.80 x 2.54 degrees. The coordinates are RA 05hr 06' 10" and DEC -04° 04' 26".</p>
<p>Foxface Nebula (NGC 1788) Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Orion Coordinates: 05hr 05' 52" -03° 22' 22"</p> <p>Close Star: SAO-131794 Catalog Objects: NGC 1788</p> <p>Imaging Window: 02:55 – 05:00 Transit: 04:42</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p>A C-11 HD telescope with a focal reducer showing the Foxface Nebula. The image shows a wider field of view than the Hyperstar image, with the nebula appearing more diffuse. A green crosshair marks the peak. The background is filled with stars.</p>
<p>Foxface Nebula (NGC 1788) Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Orion Coordinates: 05hr 06' 26" -03° 20' 13"</p> <p>Close Star: SAO-131794 Catalog Objects: NGC 1788</p> <p>Imaging Window: 02:55 – 05:00 Transit: 04:42</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p>A C-11 HD telescope at primary focus showing the Foxface Nebula. The image shows a very bright and detailed view of the nebula's structure. A green crosshair marks the peak. The background is filled with stars.</p>

Prospective Imaging Objects – October 02, 2024

<p>Flaming Star Nebula (IC-405) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula Peak: Constellation: Auriga Coordinates: 05hr 19' 38" 33° 49' 10"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: IC 405, IC 410</p> <p>Imaging Window: 01:17 – 05:00 Transit: 04:52 89°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">Flaming Star Nebula (IC-405, IC-410, IC-417) Constellation: Auriga</p> <p style="font-size: x-small; text-align: right;"> Config: C-11HD HyperStar v4 HyperStar C11-C12 01/1/24 RA = 05h 19m 35.62s DEC = +33deg 49' 17.22" Size = 13.8 x 21.56 deg. Field scale = 2.26 arc/pixel Exposure: 16s @ 7800000 Gain: 2000 (Offset: 100) </p>
<p>Flaming Star Nebula (IC 405) Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Auriga Coordinates: 05hr 15' 55" 34° 29' 08"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: IC 405</p> <p>Imaging Window: 01:17 – 05:00 Transit: 04:52 89°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="font-size: small;">Flaming Star Nebula (IC-405) Constellation: Auriga</p> <p style="font-size: x-small; text-align: right;"> James Webb Details: 2024-07-23 Location: Chandler, AZ Config: C11-HD (8.7 Focuser) Filter: OpenStair 4-Color Camera: QHY128C Exposure: 16s @ 7800000 Gain: 2000 (Offset: 100) </p>
<p>Flaming Star Nebula (IC 405) Config: C11-HD ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Auriga Coordinates: 05hr 16' 37" 34° 23' 47"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: IC 405</p> <p>Imaging Window: 01:17 – 05:00 Transit: 04:52 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Flaming Star Nebula (IC-405) Constellation: Auriga</p> <p style="font-size: x-small; text-align: right;"> James Webb Details: 2024-07-23 Location: Chandler, AZ Config: C11-HD (8.7 Focuser) Filter: OpenStair 4-Color Camera: QHY128C Exposure: 16s @ 7800000 Gain: 2000 (Offset: 100) </p>

Prospective Imaging Objects – October 02, 2024

<p>Tadpoles (IC 410) Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Auriga Coordinates: 05hr 22' 54" 33° 23' 31"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: IC 410</p> <p>Imaging Window: 01:23 – 05:00 Transit: 04:57 90°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="font-size: small;">Tadpole Nebula (IC-410) <small>Constellation: Auriga RA: 05h 22m 51.55s, DEC: +33deg 23' 31.80" - 13 May 27 22:48" Size: 18.5 x 18.8 arcmin (Obsession: Mag 5. of N. Focal scale: 0.63 arcsec/pix) F5-105mm</small></p>
<p>Tadpoles (IC 410) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Auriga Coordinates: 05hr 22' 37" 33° 23' 03"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: IC 410</p> <p>Imaging Window: 01:23 – 05:00 Transit: 04:57 90°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Tadpole Nebula (IC-410) <small>Constellation: Auriga RA: 05h 22m 35.61s, DEC: +33deg 23' 03.18" - 13 May 27 00:18" Size: 42 x 28.6 arcmin (Focal scale: 0.642 arcsec/pix)</small></p>
<p>M-79 (NGC-1904) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster Peak: Constellation: Lepus Coordinates: 05hr 24' 11" -24° 31' 25"</p> <p>Close Star: SAO-170457 Catalog Objects: M 79</p> <p>Imaging Window: *02:53 – 05:00 Transit: 04:59 32°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

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Prospective Imaging Objects – October 02, 2024

Imaging Summary October 02, 2024

Astronomical Dusk = 07:32

Astronomical Dawn = 05:00

HyperStar: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Nebula	Nebula	B-144	07:32 – 11:17	07:34	02	Cygnus: Fish on the Platter Region
HyperStar	Nebula	Nebula	IC-1318 A & B	07:32 – 11:42	07:53	06	Comp2! Cygnus: Gama Cygni Nebula
HyperStar	Nebula	Nebula	IC-1318A	07:32 – 11:42	07:53	06	Cygnus: Bright Nebula Region of Interest
HyperStar	Nebula	Nebula	IC-1318B	07:32 – 11:52	08:04	08	Cygnus: Bright Nebula Region of Interest
HyperStar	Nebula	Nebula	IC-5070	07:32 – 12:18	08:27	10	Comp2! Cygnus: Pelican & N. American Nebula
HyperStar	Nebula	Nebula	IC-5070	07:32 – 12:18	08:27	10	Cygnus: Pelican & N. American Nebula
HyperStar	Nebula	DN	LDN-904	07:32 – 12:16	08:29	11	Cygnus: Northern Coal Sack
HyperStar	Nebula	Nebula	NGC-6960	07:32 - 12:06	08:29	11	Comp2! Cygnus: Veil Nebula
HyperStar	Nebula	Nebula	NGC-6960	07:32 - 12:06	08:29	11	Cygnus: Veil Nebula
HyperStar	Nebula	Nebula	IC-1396	07:32 – 01:06	09:15	17	Cepheus: Elephant Trunk
HyperStar	Nebula	DN, BN	B-168	07:32 – 01:22	09:29	20	Cygnus: Dark Cocoon
HyperStar	Nebula	Nebula	SH2-132	07:32 – 01:47	09:55	22	Cepheus: SH2-132
HyperStar	Nebula	Nebula	SH2-155	07:32 – 02:16	10:33	25	Cepheus: Cave Nebula
HyperStar	Nebula	Nebula	SH2-157	07:32 – 02:40	10:52	26	Cassiopeia: Lobster Claw and Bubble Nebula
HyperStar	Nebula	Nebula	LBN 534	07:32 – 02:59	1:05	29	Andromeda: Blue Match Nebula
HyperStar	Nebula	Nebula	NGC-7822	08:15 – 03:05	11:37	29	Comp2! Cepheus: NGC-7822 region
HyperStar	Nebula	Nebula	NGC-7822	08:15 – 03:05	11:37	30	Cepheus CED-214
HyperStar	Nebula	Nebula	SH2-185	08:55 – 04:22	12:35	37	Cassiopeia: Gamma Cassiopeiae Nebula
HyperStar	Nebula	Neb, OC	NGC-457	11:06 – 04:38	02:49	38	Cassiopeia: Open Cluster and Nebula
HyperStar	Nebula	Nebula	IC-1848	10:46 – 05:00	02:27	43	Comp4! Cassiopeia: Heart & Soul Nebula
HyperStar	Nebula	Nebula	IC-1805	10:29 – 05:00	02:08	43	Cassiopeia: Heart Nebula
HyperStar	Nebula	Nebula	IC-1848	10:46 – 05:00	02:27	46	Cassiopeia: Soul Nebula
HyperStar	Nebula	Nebula	NGC-1499	12:01 – 05:00	03:38	49	Perseus: California Nebula
HyperStar	Nebula	Nebula	IC-405	01:17 – 05:00	04:52	53	Auriga: Flaming Star Nebula

Prospective Imaging Objects – October 02, 2024

Imaging Summary October 02, 2024

Astronomical Dusk = 07:32

Astronomical Dawn = 05:00

HyperStar: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Broad Spectrum	DN	B-168	07:32 – 01:22	09:29	22	Cepheus: Wolf Cave
HyperStar	Broad Spectrum	Galaxies	NGC-147	08:22 – 04:02	12:09	31	Cassiopeia: Galaxy Pair
HyperStar	Broad Spectrum	Galaxy	M-31	10:30 – 04:38	12:18	33	Andromeda: Andromeda Galaxy
HyperStar	Broad Spectrum	Gal, GC	NGC-288	*10:26-02:25	12:23	35	Sculptor: NGC-288 & NGC-253
HyperStar	Broad Spectrum	Galaxy	M-33	09:39 -04:46	01:09	40	Triangulum: Triangulum Galaxy
HyperStar	Broad Spectrum	OC	NGC-869	10:13 – 05:00	01:58	42	Perseus: Hand chi Persei
HyperStar	Broad Spectrum	OC, BN	M-45	12:03 – 05:00	03:21	48	Taurus: Pleiades
HyperStar	Broad Spectrum	OC	Mel-25	01:02 – 05:00	04:05	50	Taurus: Hyades
HyperStar	Broad Spectrum	DN	IC-2118	*01:37-05:00	04:37	51	Eridanus: Witch Head Nebula
HyperStar	Broad Spectrum	DN	NGC-1788	02:55 – 05:00	04:42	52	Orion: Foxface Nebula

Prospective Imaging Objects – October 02, 2024

Imaging Summary October 02, 2024

Astronomical Dusk = 07:32

Astronomical Dawn = 05:00

Focal Reducer: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Nebula	Nebula	SH2-101	07:34 – 11:17	07:34	03	Cygnus: Tulip Nebula
Focal Reducer	Nebula	Nebula	IC-1318 R1	07:32 – 11:51	08:01	07	Cygnus: IC-1318 Region of Interest
Focal Reducer	Nebula	Nebula	IC-1318B	07:32 – 11:52	08:04	08	Cygnus: IC-1318B Region of Interest
Focal Reducer	Nebula	Nebula	NGC-6960	07:32 – 12:06	08:29	12	Comp2! Cygnus: Witch's Broom
Focal Reducer	Nebula	Nebula	NGC-6960B	07:32 – 12:06	08:29	12	Cygnus: Pickering's Triangular Wisp
Focal Reducer	Nebula	Nebula	NGC-6992	07:32 – 12:10	08:32	13	Comp2! Cygnus: Network Nebula
Focal Reducer	Nebula	Nebula	IC-1396-1	07:32 – 01:06	09:15	18	Cepheus: Elephant Trunk ROI
Focal Reducer	Nebula	Nebula	IC-1396-2	07:32 – 01:06	09:15	18	Cepheus: Elephant Trunk ROI
Focal Reducer	Nebula	Nebula	IC-5146	07:32 – 01:22	09:29	20	Cygnus: Cocoon Nebula
Focal Reducer	Nebula	Nebula	SH2-132	07:32 – 01:47	09:55	23	Cepheus: Bright Nebula
Focal Reducer	Nebula	Nebula	SH2-142	07:32 – 02:14	10:23	24	Cepheus: Wizard Nebula
Focal Reducer	Nebula	Nebula	SH2-155	07:32 – 02:16	10:33	25	Cepheus: Cave Nebula
Focal Reducer	Nebula	Nebula	SH2-157	07:32 – 02:40	10:52	27	Cassiopeia: Lobster Claw
Focal Reducer	Nebula	Nebula	NGC-7822	08:15 – 03:05	11:37	30	Cepheus: NGC 7822 (CED-214)
Focal Reducer	Nebula	Neb, Gx	NGC-246	*09:37-03:10	12:23	34	Cetus: Planetary and two Galaxies
Focal Reducer	Nebula	Nebula	NGC-281	08:43 – 04:20	12:28	36	Cassiopeia: Pack Man Nebula
Focal Reducer	Nebula	Nebula	IC-1795	10:23 – 05:00	02:01	43	Cassiopeia: Fish Head Nebula
Focal Reducer	Nebula	Nebula	IC-1805	10:29 – 05:00	02:08	44	Cassiopeia: Heart Nebula
Focal Reducer	Nebula	Nebula	IC-405	01:17 – 05:00	04:52	53	Auriga: Flaming Star Nebula
Focal Reducer	Nebula	Nebula	IC-410	01:23 – 05:00	04:57	54	Auriga: Tadpoles

Prospective Imaging Objects – October 02, 2024

Imaging Summary October 02, 2024

Astronomical Dusk = 07:32

Astronomical Dawn = 05:00

Focal Reducer: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Broad Spectrum	RN	NGC-7023	07:32 – 12:02	08:38	14	Cepheus: Iris Nebula
Focal Reducer	Broad Spectrum	OC	M-39	07:32 – 01:00	09:08	16	Cygnus: Open Cluster NGC-7092
Focal Reducer	Broad Spectrum	DN	LDN-1235	07:32 – 12:36	09:51	21	Cepheus: Dark Shark
Focal Reducer	Broad Spectrum	DN	B-168	07:32 – 01:22	09:29	22	Rot90 Cepheus: Wolf's Cave
Focal Reducer	Broad Spectrum	Galaxies	NGC7317	07:32 – 01:53	10:12	23	Rot 115 Pegasus: Stephan's Quintent & NGC-7331
Focal Reducer	Broad Spectrum	Galaxies	NGC-7619	08:17 – 01:42	10:56	27	Pegasus: Pegasus Cluster
Focal Reducer	Broad Spectrum	Galaxies	NGC-147	08:22 – 04:02	12:09	32	Cassiopeia: Galaxy Pair NGC-147 & NGC 185
Focal Reducer	Broad Spectrum	OC	NGC-188	*07:32-05:00	12:23	36	Cepheus: Open Cluster NGC-188
Focal Reducer	Broad Spectrum	Galaxy	M-33	09:39 – 04:46	01:09	40	Rot90 Triangulum: Triangulum Galaxy
Focal Reducer	Broad Spectrum	Galaxies	M-77	12:10 – 04:31	02:17	44	Cetus: Galaxies M-77 & NGC-1055
Focal Reducer	Broad Spectrum	DN, BN	NGC-1788	02:55 – 05:00	04:42	52	Orion: Foxface Nebula

Prospective Imaging Objects – October 02, 2024

Imaging Summary October 02, 2024

Astronomical Dusk = 07:32

Astronomical Dawn = 05:00

Primary Focus: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	PN	NGC-6842	07:32 – 11:05	07:31	02	Vulpecula: Sm-Med Planetary Nebula
Primary Focus	Nebula	PN	M-27	07:32 – 10:58	07:36	02	Vulpecula: Dumbbell Nebula
Primary Focus	Nebula	Nebula	SH2-101	07:32 – 11:17	07:34	03	Cygnus: Tulip Nebula
Primary Focus	Nebula	PN	NGC-6852	07:32 – 09:56	07:37	03	Aquila: Small Planetary Nebula
Primary Focus	Nebula	Nebula	NGC-6888	07:32 – 11:39	07:50	04	Cygnus: Crescent Nebula
Primary Focus	Nebula	Nebula	DWB-111	07:32 – 11:39	07:50	04	Cygnus: Propeller Nebula
Primary Focus	Nebula	PN	NGC-6891	07:32 – 10:49	07:51	05	Delphinus: Small Planetary Nebula
Primary Focus	Nebula	PN	NGC-6894	07:32 – 11:29	07:53	05	Cygnus: Little Ring Nebula (Sm-Med)
Primary Focus	Nebula	PN	IC-4997	07:32 – 11:05	07:56	05	Sagitta: Small PN
Primary Focus	Nebula	PN	NGC-6905	07:32 – 11:15	07:59	07	Delphinus: Blue Flash Nebula
Primary Focus	Nebula	BN	IC-1318-1	07:32 – 11:51	08:01	08	Cygnus: Region of interest in IC-1318
Primary Focus	Nebula	BN	IC-1318B	07:32 – 11:52	08:04	09	Cygnus: Region of interest in IC-1318B
Primary Focus	Nebula	PN	NGC-7008	07:32 – 12:29	08:37	14	Cygnus: Fetus Nebula
Primary Focus	Nebula	PN	NGC-7009	*07:32-11:30	08:40	15	Aquarius: Saturn Nebula
Primary Focus	Nebula	PN	NGC-7026	07:32 – 12:35	08:42	15	Cygnus: Small PN
Primary Focus	Nebula	PN	NGC-7027	07:32 – 12:33	08:43	15	Cygnus: Small PN
Primary Focus	Nebula	PN	NGC-7048	07:32 – 12:42	08:50	16	Cygnus: Med PN
Primary Focus	Nebula	PN	NGC-7094	07:32 – 12:11	09:13	17	Pegasus: Med PN
Primary Focus	Nebula	DN	IC-1396-1	07:32 – 01:06	09:15	19	Cepheus: Elephant Trunk ROI
Primary Focus	Nebula	BN	IC-1396-2	07:32 – 01:06	09:15	19	Cepheus: Elephant Trunk RIO
Primary Focus	Nebula	BN	IC-1396-3	07:32 – 01:06	09:15	19	Cepheus: Elephant Trunk RIO
Primary Focus	Nebula	PN	NGC-7139	07:32 – 01:02	09:22	20	Cepheus: Med/Lrg Planetary
Primary Focus	Nebula	BN	IC-5146	07:32 – 01:22	09:29	21	Cygnus: Cocoon Nebula

Prospective Imaging Objects – October 02, 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	PN	NGC-7293	*08:15-11:52	10:06	21	Aquarius: Helix Nebula
Primary Focus	Nebula	Nebula	SH2-132	07:32 – 01:47	09:55	23	Cepheus: Bright Nebula
Primary Focus	Nebula	Nebula	SH2-142	07:32 – 02:14	10:23	25	Cepheus: Wizard Nebula
Primary Focus	Nebula	Nebula	SH2-155	07:32 – 02:16	10:33	26	Cepheus: Cave Nebula
Primary Focus	Nebula	Nebula	NGC-7635	07:32 – 02:42	10:57	27	Cepheus: Bubble Nebula
Primary Focus	Nebula	Nebula	NGC-7662	07:32 – 02:52	11:02	28	Andromeda: Blue Snowball
Primary Focus	Nebula	Nebula	NGC-7822	08:15 – 03:05	11:37	30	Cepheus: Emission Nebula Ced 214
Primary Focus	Nebula	PN	NGC-40	09:00 – 02:44	11:49	31	Cepheus: Bow-Tie Nebula
Primary Focus	Nebula	PN	NGC-246	*09:37-03:10	12:23	34	Cetus: Skull Nebula
Primary Focus	Nebula	Nebula	SH2-185	08:55 – 04:22	12:35	37	Cassiopeia: Gamma Cassiopeiae Nebula
Primary Focus	Nebula	Nebula	SH2-188	09:22 – 04:56	01:06	39	Cassiopeia: Firefox Nebula
Primary Focus	Nebula	PN	M-76	09:31 – 05:00	01:18	41	Perseus: Little Dumbbell Nebula
Primary Focus	Nebula	Nebula	IC-1805	10:29 – 05:00	02:08	44	Cassiopeia: Heart Nebula Core
Primary Focus	Nebula	Nebula	IC-1848	10:46 – 05:00	02:27	46	Cassiopeia: Soul Nebula
Primary Focus	Nebula	Nebula	IC-1848	10:46 – 05:00	02:27	46	Cassiopeia: Soul Nebula Core
Primary Focus	Nebula	Nebula	NGC-1333	11:33 – 05:00	03:04	47	Perseus: Bright Nebula
Primary Focus	Nebula	Nebula	NGC-1360	*01:14-04:59	03:08	47	Fornax: Egg shaped Nebula
Primary Focus	Nebula	Nebula	IC-348	11:47 – 05:00	03:20	47	Perseus: Bright Nebula
Primary Focus	Nebula	Nebula	M-45	12:03 – 05:00	03:21	48	Taurus: Pleiades
Primary Focus	Nebula	Nebula	NGC-1501	12:02 – 05:00	03:42	49	Camelopardalis: Oyster Nebula
Primary Focus	Nebula	Nebula	NGC-1514	12:14 – 05:00	03:44	49	Taurus: Crystal Ball Nebula
Primary Focus	Nebula	Nebula	NGC-1535	*01:11-05:00	03:49	50	Eridanus: Cleopatra's Eye
Primary Focus	Nebula	Nebula	NGC-1555	12:48 – 05:00	03:57	50	Taurus: Hind's Variable Nebula
Primary Focus	Nebula	Nebula	NGC-1579	12:29 – 05:00	04:05	51	Perseus: Trifid of the North
Primary Focus	Nebula	Nebula	IC-2118	*01:37-05:00	04:37	51	Eridanus: Witch Head Nebula
Primary Focus	Nebula	Nebula	NGC-1788	02:55 – 05:00	04:42	52	Orion: Foxface Nebula
Primary Focus	Nebula	Nebula	IC-405	01:17 – 05:00	04:52	53	Auriga: Flaming Star Nebula
Primary Focus	Nebula	Nebula	IC-410	01:23 – 05:00	04:57	54	Auriga: Tadpoles

Prospective Imaging Objects – October 02, 2024

Imaging Summary October 02, 2024

Astronomical Dusk = 07:32

Astronomical Dawn = 05:00

Primary Focus: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	GC	M-75	*07:32-09:26	07:42	04	Sagittarius: Med Globular
Primary Focus	Broad Spectrum	OC	M-29	07:32 – 11:46	08:00	07	Cygnus: Open Cluster in Cygnus
Primary Focus	Broad Spectrum	Galaxy	NGC-6946	07:32 – 11:58	08:11	09	Cepheus: Fireworks Galaxy (Large Face On)
Primary Focus	Broad Spectrum	GC	M-72	*07:32-11:11	08:30	12	Aquarius: Medium Globular
Primary Focus	Broad Spectrum	OC	M-73	*07:32-11:18	08:35	13	Aquarius: Open Cluster NGC-6994
Primary Focus	Broad Spectrum	RN	NGC-7023	07:32 – 12:02	08:38	14	Cepheus: Iris Nebula
Primary Focus	Broad Spectrum	GC	M-15	07:32 – 12:03	09:06	16	Pegasus: Pegasus Cluster
Primary Focus	Broad Spectrum	GC	M-2	07:32 – 11:16	09:09	17	Aquarius: Large Globular
Primary Focus	Broad Spectrum	GC	M-30	*07:32-11:33	09:16	19	Capricornus: Med Globular
Primary Focus	Broad Spectrum	Galaxies	NGC-7317	07:32 – 01:53	10:12	24	Pegasus: Stephan's Quintet
Primary Focus	Broad Spectrum	Galaxies	NGC-7331	07:32 – 01:55	10:13	24	Pegasus: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	NGC-7479	07:49 – 01:38	10:41	26	Pegasus: Face on Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-7619	08:17 – 01:42	10:56	28	Pegasus: Pegasus Cluster
Primary Focus	Broad Spectrum	OC	M-52	07:32 – 02:46	11:00	28	Cassiopeia: Open Cluster NGC-7654
Primary Focus	Broad Spectrum	OC	NGC-7789	07:48 – 03:25	11:33	29	Cassiopeia: Caroline's Rose
Primary Focus	Broad Spectrum	Galaxies	NGC 67-72	08:24 – 03:30	11:54	31	Andromeda: Andromeda Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	NGC-147	08:22 – 04:02	12:09	32	Cassiopeia: Dwarf Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-185	08:27 – 04:08	12:14	32	Cassiopeia: Dwarf Spheroidal Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-110	08:33 – 04:06	12:16	33	Andromeda: Elliptical Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-32	08:36 – 04:07	12:18	33	Andromeda: Companion to M-31
Primary Focus	Broad Spectrum	Galaxy	NGC-247	*09:56-02:55	12:23	35	Cetus: Needle's Eye Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-253	*10:26-02:25	12:23	35	Sculptor: Sculptor Galaxy
Primary Focus	Broad Spectrum	Globular	NGC-288	*10:45-02:14	12:28	36	Sculptor: Med Globular Cluster
Primary Focus	Broad Spectrum	Galaxy	IC-1613	10:25 – 03:02	12:40	37	Cetus: Irregular Dwarf Galaxy

Prospective Imaging Objects – October 02, 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	NGC-404	09:11 – 04:45	12:55	38	Andromeda: Mirachs Ghost
Primary Focus	Broad Spectrum	OC	NGC-457	09:11 – 04:45	12:55	38	Cassiopeia: Owl Cluster
Primary Focus	Broad Spectrum	Galaxies	Arp-133	11:03 – 03:06	01:01	39	Cetus: Minkowski's Object
Primary Focus	Broad Spectrum	OC	M-103	09:28 – 04:56	01:09	39	Cassiopeia: Open Cluster NGC-581
Primary Focus	Broad Spectrum	Galaxy	M-33	09:39 – 04:46	01:09	40	Triangulum: Triangulum Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-74	10:12 – 04:19	01:12	41	Pisces: Med Face On Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-772	10:26 – 04:50	01:35	41	Aries: Nautilus Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-891	10:14 - 05:00	01:58	42	Andromeda: Edge On Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-925	10:28 – 05:00	02:03	42	Triangulum: Face on Galaxy PGC-9332
Primary Focus	Broad Spectrum	Galaxy	NGC-1055	12:10 – 04:31	02:17	45	Cetus: Edge On galaxy
Primary Focus	Broad Spectrum	OC	M-34	10:34 – 05:00	02:17	45	Perseus: Open Cluster NGC-1039
Primary Focus	Broad Spectrum	Galaxy	M-77	12:13 – 04:30	02:18	45	Cetus: Galaxy NGC-1068
Primary Focus	Broad Spectrum	Galaxies	Abell-426	11:12 – 05:00	02:55	46	Perseus: Perseus Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxy	IC-342	11:47 – 05:00	03:20	48	Camelopardalis: Large Face-On
Primary Focus	Broad Spectrum	Globular	M-79	*02:53-05:00	04:59	54	Lepus: Med Globular

Prospective Imaging Objects – October 02, 2024

Imaging Summary October 02, 2024

Astronomical Dusk = 07:32

Astronomical Dawn = 05:00

Primary Prospects

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	HyperStar	Nebula	Nebula	IC-1318A	07:32 – 11:42	07:53	06	Cygnus: Cygnus ROI
	HyperStar	Nebula	Nebula	IC-1318B	07:32 – 11:52	08:04	08	Cygnus: Cygnus ROI
	HyperStar	Nebula	Nebula	NGC-5960	07:32 – 12:06	08:29	11	Comp2! Cygnus: Veil Nebula
	HyperStar	Nebula	BN & DN	B-168	07:32 – 01:22	09:29	20	Cygnus: Dark Cocoon
	HyperStar	Nebula	Nebula	SH2-132	07:32 – 01:47	09:55	22	Cepheus: Bright Nebula
	HyperStar	Nebula	Nebula	SH2-155	07:32 – 02:59	11:05	29	Andromeda: Blue Match Nebula
	HyperStar	Broadband	Galaxies	NGC-147 & NGC-185	08:22 – 04:02	12:09	31	Cassiopeia: Galaxy Pair
	HyperStar	Broadband	Galaxy	M-33	09:39 – 04:46	01:09	40	Triangulum: Triangulum Galaxy
	HyperStar	Broadband	OC	NGC-869, 884	10:13 – 05:00	01:58	42	Perseus: Hand Chi Persei
	HyperStar	Nebula	Nebula	IC-1848	10:46 – 05:00	02:27	43	Comp4! Cassiopeia: Heart and Soul Nebula
	HyperStar	Broadband	OC	Mel-25	01:02 – 05:00	04:05	50	Taurus: Hayades Cluster
	HyperStar	Nebula	BN, DN	NGC-1788	02:55 – 05:00	04:42	52	Orion: Foxface Nebula
	HyperStar	Nebula						
	HyperStar	Nebula						
	HyperStar	Nebula						
	HyperStar	Nebula						
	Focal Reducer	Nebula	Nebula	SH2-101	07:32 – 11:17			Cygnus: Tulip Nebula
	Focal Reducer	Nebula	Nebula	IC-1318 R1	07:32 – 11:51	08:01	07	Cygnus: ROI
	Focal Reducer	Nebula	Nebula	NGC-6992	07:32 – 12:10	08:32	13	Comp2! Cygnus: Network Nebula
	Focal Reducer	Nebula	RN	NGC-7023	07:32 – 12:02	08:38	14	Cepheus: Iris Nebula
	Focal Reducer	Broadband	OC	M-39	07:32 – 01:00	09:08	16	Cygnus: Open Cluster NGC-7092
	Focal Reducer	Nebula	Nebula	IC-1396	07:32 – 01:06	09:15	18	Cepheus: Elephant Trunk RIO1
	Focal Reducer	Nebula	Nebula	IC-1396	07:32 – 01:06	09:15	18	Cepheus: Elephant Trunk RIO2

Prospective Imaging Objects – October 02, 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Focal Reducer	Nebula	BN & DN	IC-5146	07:32 – 01:22	09:29	20	Cygnus: Cocoon Nebula
	Focal Reducer	Nebula	Nebula	SH2-132	07:32 – 01:47	09:55	23	Cepheus: Bright Nebula
	Focal Reducer	Broadband	Galaxies	NGC7331 et. El.	07:32 – 01:53	10:12	23	Rot! Peg: Stephan's Quintet & NGC7331
	Focal Reducer	Nebula	Nebula	SH2-142	07:32 – 02:14	10:23	24	Cepheus: Wizard Nebula
	Focal Reducer	Nebula	Nebula	SH2-155	07:32 – 02:16	10:33	25	Cepheus: Cave Nebula
	Focal Reducer	Nebula	Nebula	SH2-157	07:342 – 02:40	10:52	27	Cassiopeia: Lobster Claw ROI
	Focal Reducer	Broadband	Galaxies	NGC-7619	08:17 – 01:42	10:56	27	Pegasus: Pegasus Cluster
	Focal Reducer	Nebula	Nebula	NGC-7822	08:15 – 03:05	11:37	30	Cepheus: CED-214
	Focal Reducer	Broadband	OC	NGC-188	*07:32-05:00	12:23	36	Cepheus: Open Cluster
	Focal Reducer	Nebula	BN, DN	NGC-1788	02:55 – 05:00	04:42	52	Orion: Foxface Nebula
	Primary Focus	Nebula	PN	NGC-6842	07:32 – 11:05	07:31	02	Vulpecula: Sm/Med Planetary Nebula
	Primary Focus	Nebula	Nebula	Sh2-101	07:32 – 11:17	07:34	03	Cygnus: Tulip Nebula
	Primary Focus	Broadband	GC	M-75	*07:32-09:26	07:42	04	Sagittarius: Med Globular
	Primary Focus	Nebula	Nebula	NGC-6888	07:32 – 11:39	07:50	04	Cygnus: Crescent Nebula
	Primary Focus	Nebula	Nebula	NGC-6894	07:32 – 11:29	07:53	05	Cygnus: Sm/Med Planetary Nebula
	Primary Focus	Broadband	Galaxy	NGC-6946	07:32 – 11:58	08:11	09	Cepheus: Fireworks Galaxy
	Primary Focus	Broadband	Globular	M-72	*07:32-11:11	08:30	12	Aquarius: Med Globular NGC-6981
	Primary Focus	Nebula	PN	NGC-7009	*07:32-11:30	08:40	15	Aquarius: Saturn Nebula
	Primary Focus	Nebula	PN	NGC-7027	07:32 – 12:33	08:43	15	Cygnus: Small PN
	Primary Focus	Nebula	PN	NGC-7048	07:32 – 12:42	08:50	16	Cygnus: Sm/med PN
	Primary Focus	Broadband	Globular	M-2	07:32 – 11:16	09:09	17	Aquarius: Large GC NGC-7089
	Primary Focus	Nebula	PN	NGC-7094	07:32 – 12:11	09:13	17	Pegasus: sm/med PN
	Primary Focus	Nebula	DN	IC-1396	07:32 – 01:06	09:15	18	Cepheus: Dark Nebula
	Primary Focus	Nebula	Nebula	IC-1396	07:32 – 01:06	09:15	18	Cepheus: Elephant Trunk RIO 1
	Primary Focus	Nebula	Nebula	IC-1396	07:32 – 01:06	09:15	18	Cepheus: Elephant Trunk RIO 2
	Primary Focus	Broadband	Globular	M-30	*07:32-11:33	09:16	19	Capricornus: Med Globular NGC-7099
	Primary Focus	Nebula	Nebula	SH2-132	07:32 – 01:47	09:55	23	Cepheus: Bright Nebula

Prospective Imaging Objects – October 02, 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Primary Focus	Broadband	Galaxies	NGC-7317	07:32 – 01:53	10:12	24	Pegasus: Stephan's Quintet
	Primary Focus	Broadband	Galaxies	NGC-7619	08:17 – 01:42	10:56	28	Pegasus: Pegasus Cluster
	Primary Focus	Nebula	PN	NGC-7662	07:32 – 02:52	11:02	28	Andromeda: Blue Snowball
	Primary Focus	Broadband	OC	NGC-7789	07:48 – 03:25	11:33	29	Cassiopeia: Caroline's Rose
	Primary Focus	Nebula	PN	NGC-40	09:00 – 02:44	11:49	31	Cepheus: Bow-Tie Nebula
	Primary Focus	Broadband	Galaxies	NGC 67-72	08:24 – 03:30	11:54	31	Andromeda: Andromeda Galaxy Group
	Primary Focus	Broadband	Galaxy	M-32	08:36 – 04:07	12:18	33	Andromeda: Elliptical Galaxy
	Primary Focus	Nebula	PN	NGC-246	*09:37-03:10	12:23	34	Cetus: Skull Nebula
	Primary Focus	Broadband	Globular	NGC-288	*10:45-02:14	12:28	36	Sculptor: Med Globular Cluster
	Primary Focus	Nebula	Nebula	SH2-185	08:55 – 04:22	12:35	37	Cassiopeia: Gamma Cassiopeiae Nebula
	Primary Focus	Broadband	Galaxy	IC-1613	10:25 – 03:02	12:40	37	Cetus: Irregular Dwarf Galaxy
	Primary Focus	Broadband	Galaxy	NGC-404	09:11 – 04:45	12:55	38	Andromeda: Mirachs Ghost
	Primary Focus	Broadband	Galaxies	Arp-133	11:03 – 03:06	01:01	39	Cetus: Minkowski's Object
	Primary Focus	Nebula	Nebula	SH2-188	09:22 – 04:56	01:06	39	Cassiopeia: Firefox Nebula
	Primary Focus	Broadband	OC	M-103	09:28 – 04:56	01:09	39	Cassiopeia: Open Cluster
	Primary Focus	Broadband	Galaxy	NGC-772	10:26 – 04:50	01:35	41	Aries: Nautilus Galaxy
	Primary Focus	Broadband	Galaxy	NGC-1055	12:10 – 04:31	02:17	45	Cetus: Edge On Galaxy
	Primary Focus	Broadband	OC	M-34	10:34 – 05:00	02:17	45	Perseus: Open Cluster NGC-1039
	Primary Focus	Broadband	Galaxy	M-77	12:13 – 04:30	02:18	45	Cetus: Galaxy
	Primary Focus	Broadband	Galaxies	Abell-426	11:12 – 05:00	02:55	46	Perseus: Perseus Galaxy Cluster
	Primary Focus	Nebula	BN	NGC-1333	11:33 – 05:00	03:04	47	Perseus: Bright Nebula
	Primary Focus	Nebula	PN	NGC-1360	*01:14-04:59	03:08	47	Fornax: Blue Egg Nebula
	Primary Focus	Nebula	BN	IC-348	11:47 – 05:00	03:20	47	Perseus: Bright Nebula in Starfield
	Primary Focus	Broadband	Galaxy	IC-342	11:47 – 05:00	03:20	48	Camelopardalis: Large Face-On Galaxy
	Primary Focus	Nebula	PN	NGC-1555	12:48 – 05:00	03:57	50	Taurus: Hind's Variable Nebula
	Primary Focus	Nebula	BN	NGC-1579	12:29 – 05:00	04:05	51	Perseus: Trifid of the North
	Primary Focus	Broadband	DN	IC-2118	*01:37-05:00	04:37	51	Eridanus: Witch Head Nebula
	Primary Focus	Broadband	GC	M-79	*02:53-05:00	04:59	54	Lepus: Med Globular

Prospective Imaging Objects – October 02, 2024

Imaging Summary October 02, 2024

Astronomical Dusk = 07:32

Astronomical Dawn = 05:00

Imaging Plans

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Imaging Schedule
	HyperStar	Nebula	Nebula	SH2-240				
	HyperStar	Nebula	Nebula	IC-2162				
	HyperStar	Nebula	Nebula	NGC-1499				
	HyperStar	Broadband	Galaxies	M-106 et. El.				
	Focal Reducer	Nebula	Nebula	IC-443				
	Focal Reducer	Broadband	Galaxies	M-84 et. El.				
	Focal Reducer	Nebula	Nebula	IC-1805				
	Focal Reducer	Nebula	Nebula	NGC-2174				
	Focal Reducer	Broadband	Galaxies					
	Primary Focus	Nebula	PN	NGC-1360				
	Primary Focus	Nebula	PN	NGC-2440				
	Primary Focus	Nebula	PN	NGC-2610				
	Primary Focus	Broad Spectrum	Globular	M-68				
	Primary Focus	Nebula	Nebula					
	Primary Focus	Nebula	Nebula					
	Primary Focus	Broad Spectrum	Galaxy					
	Primary Focus	Broad Spectrum	Galaxy					
	Primary Focus	Broad Spectrum	Galaxy					

Prospective Imaging Objects – October 02, 2024