

Prospective Imaging Objects – November 13 2023

Astronomical Data

Sunrise	Sunset	Astronomical Dusk	Astronomical Dawn	Imaging	New Moon
06:57am	05:26 pm	06:52 pm	05:31 am	10:39	November 13

Hardware Info

Configuration	FL	FOV	FOV°	Image Scale (1 – 1.5) ideal
C11HD ZWO ASI-6200 mono Pro	2800mm	45' x 30'	0.75° x 0.5°	0.280"/pix (Oversampled)
C11HD 0.7xReducer ZWO6200MCc	1960mm	60' x 45'	1.0° x 0.75°	0.393"/pix (Oversampled)
C11HD HS-v4 ZWO6200MCc	540mm	228' x 150'	3.8° x 2.5°	1.4"/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



Sculptor Galaxy (NGC 253)
 Constellation: Sculptor

01 ← Background Fill Color

02 ← Object Name and catalog number

03 ← Config

04 ← Object Image

05 ← Close Star




06 ← Catalog Objects

07 ← Imaging Window

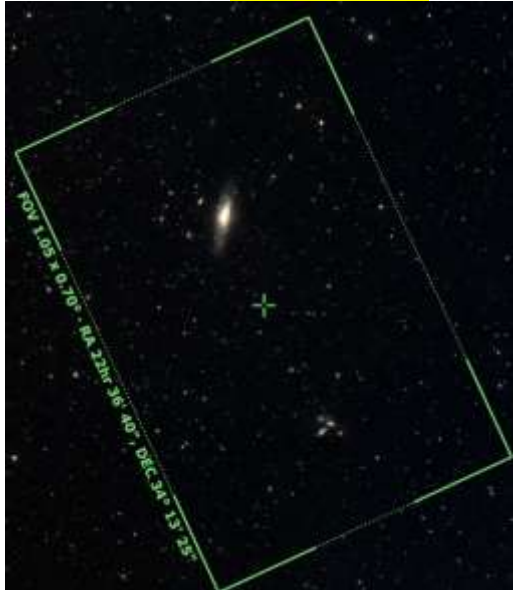
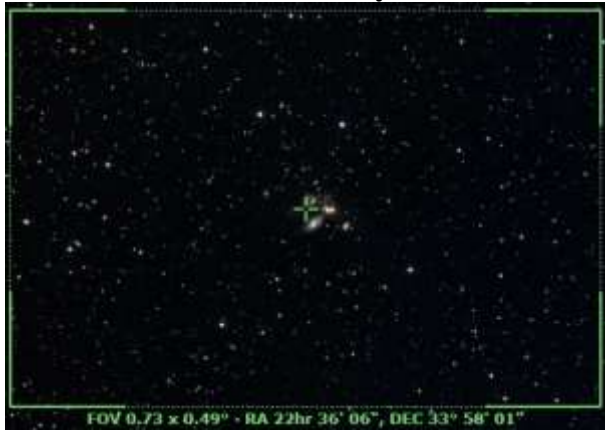
08 ← Transit

- 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 – November 13 2023

<p>SH2-132 Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula</p> <p>Constellation: Cepheus Coordinates: 22h 22' 39" 55° 38' 22"</p> <p>Close Star: SAO-20268 (Iota Cephei) Catalog Objects: SH2-132 Imaging Window: 06:52 – 11:05 Transit: 07:16 67°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="text-align: center;">FOV 3.81 x 2.54° · RA 22hr 22' 39", DEC 55° 38' 22"</p>
<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: 06:52 – 11:05 Transit: 07:16 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: 06:52 – 11:05 Transit: 07:16 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>




Prospective Imaging Objects – November 13 2023

<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: 06:52 – 11:11 Transit: 07:33 89°</p>	<p>C-11 HD: Focal Reducer</p> 
<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</p> <p>Imaging Window: 06:52 – 11:11 Transit: 07:33 89°</p>	<p>C-11 HD: Primary Focus</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</p> <p>Imaging Window: 06:52 – 11:13 Transit: 07:34 89°</p>	<p>C-11 HD: Primary Focus</p>




Prospective Imaging Objects – November 13 2023

<p>Wizard Nebula (SH 2-142)</p> <p>Config: C11-HD FR 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: 06:52 – 11:30</p> <p>Transit: 07:42 89°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<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: 06:52 – 11:30</p> <p>Transit: 07:42 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</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: 06:52 – 11:34</p> <p>Transit: 07:54 61°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 


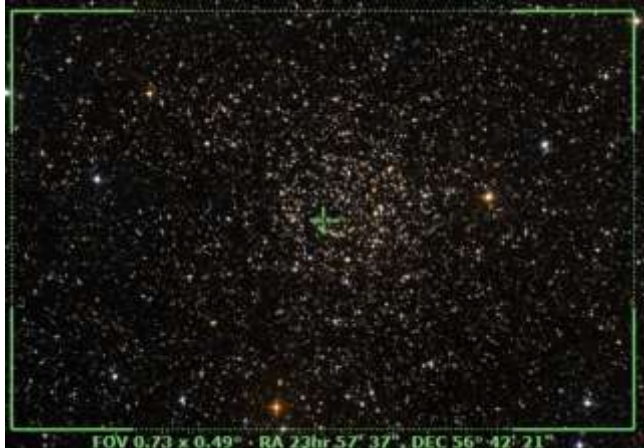

Prospective Imaging Objects – November 13 2023

<p>Cave Nebula (SH2-155) Config: C11-HD FR 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: 06:52 – 11:34 Transit: 07:54 61°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<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: 06:52 – 11:34 Transit: 07:54 61°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</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: 06:52 – 10:56 Transit: 08:02 62°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – November 13 2023

<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: 06:52 – 10:59 Transit: 08:17 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>
<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: 06:52 – 10:59 Transit: 08:17 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: 06:52 – 12:04 Transit: 08:22 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>




Prospective Imaging Objects – November 13 2023

<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: 06:52 – 12:18 Transit: 08:27 81°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</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: 06:52 – 12:43 Transit: 08:54 65°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</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: 06:52 – 12:24 Transit: 08:59 56°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4 Composite!</p> 




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<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: 06:52 – 12:24 Transit: 08:59 56°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="text-align: center;"><small>NGC-7822 Constellation: Cepheus</small></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: 06:52 – 12:24 Transit: 08:59 56°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="text-align: center;"><small>FOV 1.04 x 0.70" - RA 00hr 03' 38" - DEC 67° 14' 37"</small></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: 06:52 – 12:24 Transit: 08:59 56°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;"><small>Hubble: Nebula NGC-7822 (Ced 214) Constellation: Cepheus</small></p>




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<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: 06:52 – 12:02 Transit: 09:10 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: 06:52 – 12:48 Transit: 09:15 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: 06:52 – 01:20 Transit: 09:30 75°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 




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<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: 06:52 – 01:20 Transit: 09:30 75°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer Composite!</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: 06:52 – 01:20 Transit: 09:30 75°</p>	<p style="text-align: center;">Primary Focus</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: 06:52 – 01:26 Transit: 09:36 75°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – November 13 2023

<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: 06:52 – 01:26 Transit: 09:40 82°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</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: *07:28 – 11:54 Transit: 09:44 45°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</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: *07:28 – 11:54 Transit: 09:44 45°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




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<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: *07:11 – 12:11 Transit: 09:44 36°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Needle's Eye Galaxy (NGC 247) Constellation: Cetus Coordinates: 00h 47m 12.00s, -20d 44m 38.00s Date: 2023-09-11 21:11:11 Time: 21:11:11 Filter: ZWO6200MC Exposure: 15s Gain: 1000 Offset: 0 Scale: 0.25 arcsec/pixel Resolution: 0.5 arcsec</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: *08:01 – 11:37 Transit: 09:50 31°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">Sculptor galaxy (NGC 253) and Globular Cluster (NGC 288) Constellation: Sculptor Coordinates: 00h 50m 03.00s, -25d 54m 37.00s Date: 2023-09-11 21:11:11 Time: 21:11:11 Filter: ZWO6200MC Exposure: 15s Gain: 1000 Offset: 0 Scale: 0.25 arcsec/pixel Resolution: 0.5 arcsec</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: *07:45 – 11:43 Transit: 09:44 30°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Sculptor Galaxy (NGC 253) Constellation: Sculptor Coordinates: 00h 47m 33.00s, -25d 17m 15.00s Date: 2023-09-11 21:11:11 Time: 21:11:11 Filter: ZWO6200MC Exposure: 15s Gain: 1000 Offset: 0 Scale: 0.25 arcsec/pixel Resolution: 0.5 arcsec</p>

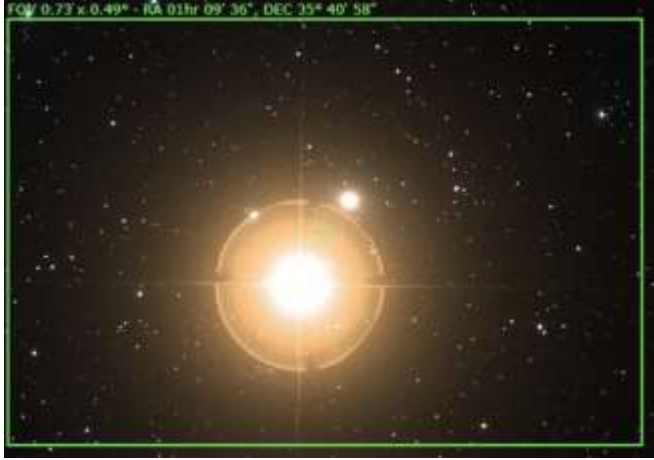


Prospective Imaging Objects – November 13 2023

<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: *08:01 – 11:37 Transit: 09:50 31°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p>FOV 0.73 x 0.49° - RA 00h 52' 45" - DEC -26° 35' 51"</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: *06:52 – 02:29 Transit: 09:44 38°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p>FOV 1.04 x 0.70° - RA 00h 47' 30" - DEC 85° 15' 30"</p>
<p>Packman Nebula (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: 06:52 – 01:38 Transit: 09:50 67°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p>NGC-281 Packman Nebula 2023-09-11</p>




Prospective Imaging Objects – November 13 2023

<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: 11:50 – 04:22 Transit: 03:36 62°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>Gamma Cassiopeiae Nebula (IC-59, IC-63) 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: 11:50 – 04:22 Transit: 03:36 62°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</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: 06:52 – 12:20 Transit: 10:02 59°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




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<p>Mirachs Ghost (NGC-404) Config: C11-HD ZWO6200MC</p> <p>Type: Elliptical Galaxy</p> <p>Constellation: Andromeda Coordinates: 01h 09' 36" 35° 40' 58"</p> <p>Close Star: SAO-544471 (Mirach) Catalog Objects: NGC-404 Imaging Window: 06:52 – 01:47 Transit: 10:06 88°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-457 & Dolphin Nebula Config: C11-HD HS ZWO6200MC</p> <p>Type: Open Cluster & Nebula</p> <p>Constellation: Cassiopeia Coordinates: 01° 23' 38" 58° 12' 54"</p> <p>Close Star: SAO-22268 (Ruchbah) Catalog Objects: NGC-457 Imaging Window: 06:52 – 02:03 Transit: 10:16 65°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>Owl Cluster (NGC-457) Config: C11-HD ZWO6200MC</p> <p>Type: Open Cluster & Nebula</p> <p>Constellation: Cassiopeia Coordinates: 01h 23' 38" 58° 12' 54"</p> <p>Close Star: SAO-22268 (Ruchbah) Catalog Objects: NGC-457 Imaging Window: 06:52 – 02:03 Transit: 10:16 65°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




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<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: 08:21 – 12:24 Transit: 10:22 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: 06:52 – 02:14 Transit: 10:27 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: 06:52 – 02:14 Transit: 10:30 63°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – November 13 2023

<p>Triangulum Galaxy (M-33) Config: C11 HS ZWO6200MC</p> <p>Type: Galaxy Constellation: Triangulum Coordinates: 01h 33' 52" 30° 39' 29"</p> <p>Close Star: SAO-74996 Catalog Objects: M33, NGC598</p> <p>Imaging Window: 06:57 – 02:04 Transit: 10:31 87°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>Triangulum Galaxy (M-33) Config: C11-HD FR ZWO6200MC </p> <p>Type: Galaxy Peak: Oct 14 Constellation: Triangulum</p> <p>Camera Rotation - 90°</p> <p>Coordinates: 01h 33' 52" 30° 39' 29"</p> <p>Close Star: SAO-74996 Catalog Objects: M33, NGC598</p> <p>Imaging Window: 06:57 – 02:04 Transit: 10:31 87°</p>	<p style="text-align: center;">CH11-HD Focal Reducer 90° Rotation</p> 
<p>Triangulum Galaxy (M-33) Config: ZWO6200MC </p> <p>Type: Galaxy Peak: Oct 14 Constellation: Triangulum Coordinates: 01° 34' 53.37" 30° 45' 11.2"</p> <p>Close Star: SAO-74996 Catalog Objects: M33, NGC598</p> <p>Imaging Window: 06:57 – 02:04 Transit: 10:31 87°</p>	<p style="text-align: center;">Primary Focus</p> 


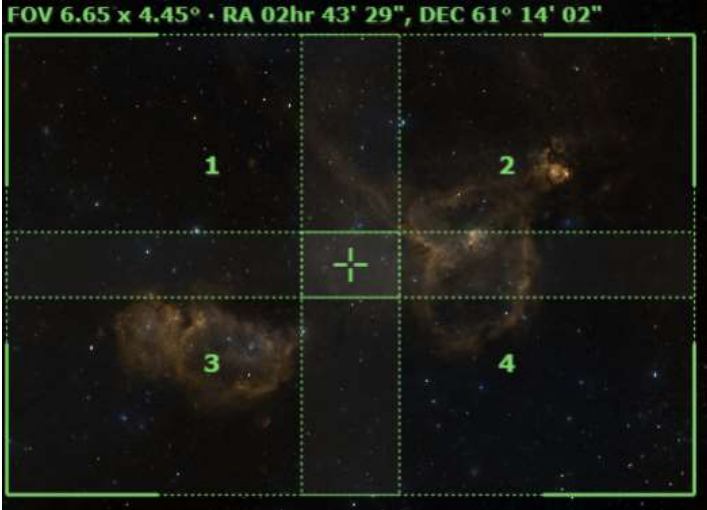

Prospective Imaging Objects – November 13 2023

<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: 07:30 – 01:37 Transit: 10:33 72°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;"><small>Spiral Galaxy M-74 (NGC-628)</small></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</p> <p>Imaging Window: 06:52 – 10:39 Transit: 10:39 72°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;"><small>Little Dumbbell Nebula (M-76, NGC-650)</small></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: 07:44 – 02:08 Transit: 10:56 76°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – November 13 2023

<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: 07:31 – 03:07 Transit: 11:19 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: 07:32 – 03:06 Transit: 11:19 81°</p>	<p style="text-align: center;">Primary Focus</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: 07:46 – 03:02 Transit: 11:24 90°</p>	<p style="text-align: center;">Primary Focus</p> 

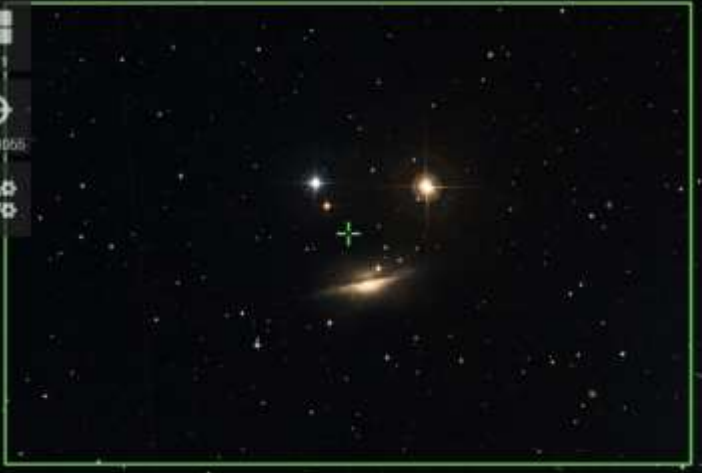


Prospective Imaging Objects – November 13 2023

<p>Fish Head Nebula (IC-1795) Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula Constellation: Cassiopeia</p> <p>Coordinates: 02h 27' 03" 62° 02' 31"</p> <p>Close Star: SAO-38787 (Mirfak) Catalog Objects: IC-1795</p> <p>Imaging Window: 07:41 – 03:04 Transit: 11:22 61°</p>	<p>CH11-HD Focal Reducer</p> 
<p>Heart and Soul Nebulas Config: C11 HS ZWO6200MC</p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cassiopeia Coordinates (RA, DEC): Pane 1: 02hr 55' 41", 62° 09' 11" Pane 2, 02hr 31' 16", 62° 09' 11" Pane 3, 02hr 54' 58", 60° 15' 00" Pane 4, 02hr 31' 59", 60° 15' 00"</p> <p>Close Star: SAO-38787 (Mirfak) Catalog Objects: IC-1848</p> <p>Imaging Window: 07:47 – 03:12 Transit: 11:29 63°</p>	<p>C-11 HD: HyperStar v4 SUPER-4 Composite!</p> <p>FOV 6.65 x 4.45° • RA 02hr 43' 29", DEC 61° 14' 02"</p> 
<p>Heart Nebula (IC 1805) Config: C11-HD HS ZWO6200MC</p> <p>Type: Diffuse Nebula Peak: October 31 Constellation: Cassiopeia Coordinates: 02hr 31' 16" 61° 21' 36"</p> <p>Close Star: SAO-12031 Catalog Objects: IC 1805</p> <p>Imaging Window: 07:47 – 03:12 Transit: 11:29 63°</p>	<p>C-11 HD: HyperStar v4</p>  <p>Heart Nebula (IC 1805) Constellation: Cassiopeia</p>




Prospective Imaging Objects – November 13 2023

<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: 07:47 – 03:12 Transit: 11:29 63°</p>	<p>CH11-HD Focal Reducer</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: 07:47 – 03:12 Transit: 11:29 63°</p>	<p>Primary Focus</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: 09:28 – 01:49 Transit: 11:38 57°</p>	<p>CH11-HD Focal Reducer</p> 




Prospective Imaging Objects – November 13 2023

<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: 09:28 – 01:49 Transit: 11:38 57°</p>	<p style="text-align: center;">C-11 HD: 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: 09:31 – 01:48 Transit: 11:39 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: 07:51 – 03:26 Transit: 11:39 81°</p>	<p style="text-align: center;">Primary Focus</p> 




Prospective Imaging Objects – November 13 2023

<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: 08:04 – 03:32 Transit: 11:48 63°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">Soul Nebula (IC-1848) Constellation: Cassiopeia</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: 08:04 – 03:32 Transit: 11:48 63°</p>	<p style="text-align: center;">Primary Focus</p>  <p style="font-size: small;">Soul Nebula (IC-1848) Constellation: Cassiopeia</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: 08:30 – 04:02 Transit: 12:16 82°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 



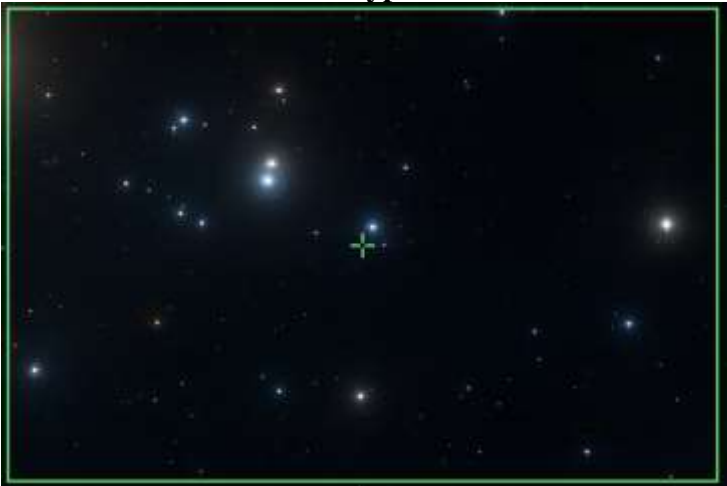
Prospective Imaging Objects – November 13 2023

<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: 08:51 – 04:00 Transit: 12:26 88°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Robins Egg Nebula (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: NCC-1360</p> <p>Imaging Window: *10:36 – 02:23 Transit: 12:30 31°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center; font-size: small;">FOV 0.73 x 0.49" - RA 03hr 33' 15", DEC -25° 52' 16"</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: 09:05 – 04:17 Transit: 12:41 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – November 13 2023

<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: 09:21 – 04:05 Transit: 12:43 55°</p>	<p style="text-align: center;">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: 09:21 – 04:06 Transit: 12:43 81°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</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: 09:21 – 04:06 Transit: 12:43 81°</p>	<p style="text-align: center;">Primary Focus</p> 




Prospective Imaging Objects – November 13 2023

<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: *11:43 – 02:29 Transit: 01:10 44°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;"><small>Planetary Nebula NGC-1535 (Cleopatra's Eye) Constellation: Eridanus RA: 04h 14m 16.00s DEC: -12d 44m 20.00s Date: 2023-09-13 01:10:44 Filter: H-alpha</small></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: 10:05 – 04:31 Transit: 01:18 76°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;"><small>FOV 0.73 x 0.48° - RA 04hr 21' 54", DEC 19° 32' 00"</small></p>
<p>Hyades (C 41, 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: 10:19 – 04:28 Transit: 01:23 73°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 




Prospective Imaging Objects – November 13 2023

<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: 09:46 – 05:06 Transit: 01:26 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: *12:00 – 04:03 Transit: 02:01 49°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">Witch Head Nebula (IC-2118) Epoch: 2023-09-22 Exposure: 21200000 Camera: QHY6000 Filter: H-alpha 6nm Filter Wheel: 1 Filter: H-alpha 6nm Filter Wheel: 1 Filter: H-alpha 6nm Filter Wheel: 1</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: *12:00 – 04:03 Transit: 02:01 49°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – November 13 2023

<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: 12:13 – 03:53 Transit: 02:03 53°</p>	<p style="text-align: center;">Hyperstar</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: 12:13 – 03:53 Transit: 02:03 53°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</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: 12:13 – 03:53 Transit: 02:03 53°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – November 13 2023

<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: 10:34 – 05:31 Transit: 02:13 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>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: 10:34 – 05:31 Transit: 02:13 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>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: 10:34 – 05:31 Transit: 02:13 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 


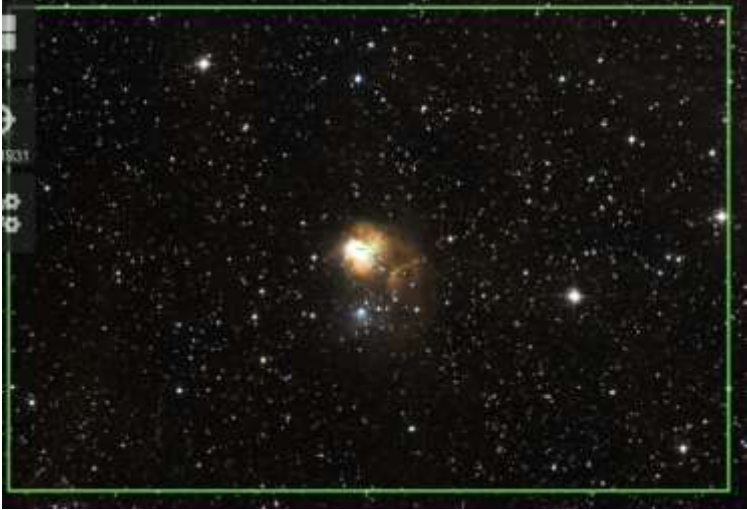

Prospective Imaging Objects – November 13 2023

<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: 10:41 – 05:31 Transit: 02:19 90°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="text-align: center;"><small>Tadpoles Nebula (IC-410) Copyright © 2023</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: 10:41 – 05:31 Transit: 02:19 90°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;"><small>Tadpoles Nebula (IC-410) Copyright © 2023</small></p>
<p>M-79 (NGC-1904) Config: C11HD Barlow x2 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: *12:16 – 04:25 Transit: 02:20 32°</p>	<p style="text-align: center;">C-11 HD: Primary Focus *x2</p> 

Prospective Imaging Objects – November 13 2023

<p>Spirograph Nebula (IC 418) Config: C11HD Barlow x2 ZWO6200MC </p> <p>Type: Planetary Nebula Constellation: Lepus Coordinates: 05hr 27' 28" -12° 41' 48"</p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: IC 418</p> <p>Imaging Window: *12:16 – 04:25 Transit: 02:23 44°</p>	<p style="text-align: center;">C-11 HD: Primary Focus *x2</p> 
<p>The Spider and the Fly (M-77, NGC-1055, NGC-1931) Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Auriga</p> <p>Camera Rotation - 90° Frame 01 RA: 05hr 30' 44"DEC: 34° 20' 41" Frame 02 RA: 05hr 27' 55"DEC: 34° 20' 41"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: IC-417, NGC-1931</p> <p>Imaging Window: 10:45 – 05:31 Transit: 02:24 89°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer Composite!</p> 
<p>The Spider (IC 417) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Auriga Coordinates: 05hr 28' 03" 34° 22' 58"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: IC 417</p> <p>Imaging Window: 10:45 – 05:31 Transit: 02:24 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

Prospective Imaging Objects – November 13 2023

<p>Starfish Cluster (M-38) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster Constellation: Auriga Coordinates: 05hr 28' 43" 35° 51' 18"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: M-38</p> <p>Imaging Window: 10:44 – 05:31 Transit: 02:25 88°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>The Fly (NGC 1931) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Auriga Coordinates: 05hr 31' 24" 34° 15' 00"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: NGC 1931</p> <p>Imaging Window: 10:49 – 05:31 Transit: 02:27 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Crab Nebula (M 1) Config: C1 LF ZWO6200MC </p> <p>Type: Planetary Nebula Peak: Constellation: Taurus Coordinates: 05hr 34' 30" 22° 00' 59.9"</p> <p>Close Star: SAO-77336 Catalog Objects: M 1</p> <p>Imaging Window: 11:12 – 05:31 Transit: 02:31 79°</p>	<p style="text-align: center;">Primary Focus</p>  <p><small>Crab Nebula (Messier-1) Constellation: Taurus 05h 34m 31.9s 22° 00' 59.9" (J2000) (11.3 x 7.0 arcmin) (13.0 mag) (Red: 1.5 Blue: 1.5 Green: 1.5) (100%) Date: 2023-09-13 21:00:00 (UTC) (05h 34m 31.9s 22° 00' 59.9" (J2000) (11.3 x 7.0 arcmin) (13.0 mag) (Red: 1.5 Blue: 1.5 Green: 1.5) (100%)</small></p>

Prospective Imaging Objects – November 13 2023

The Orion Complex

Config: C11 | HS | ZWO6200MC

Type: **Diffuse Nebula**

Peak:

Constellation: **Orion**

Coordinates:

Frame 01

RA: 05hr 43' 42" DEC: -01° 01' 06"

Frame 02

RA: 05hr 31' 05" DEC: -01° 01' 06"

Frame 03

RA: 05hr 43' 42" DEC: -03° 07' 35"

Frame 04

RA: 05hr 31' 04" DEC: -03° 07' 35"

Frame 05

RA: 05hr 43' 43" DEC: -05° 14' 05"

Frame 06

RA: 05hr 31' 04" DEC: -05° 14' 05"

Close Star: SAO-132542 (Saiph)

Catalog Objects: [M-42](#)

Imaging Window: 12:51 – 04:12

Transit: 02:31 | 52°

C-11 HD: HyperStar v4

SUPER-6 Composite!



The Orion Nebula (M 42)

Config: C11-HD | HS |

ZWO6200MC

Type: **Diffuse Nebula**

Peak:

Constellation: **Orion**

Coordinates:

05hr 35' 46"

-05° 15' 34"

Close Star: SAO-132542 (Saiph)

Catalog Objects: [M 42](#)




Imaging Window: 12:51 – 04:12

Transit: 02:31 | 52°

C-11 HD: HyperStar v4






Prospective Imaging Objects – November 13 2023

<p>The Orion Nebula (M 42) Config: C1 LF ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Orion Coordinates: 05hr 35' 09" -05° 24' 32"</p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: M 42</p> <p>Imaging Window: 12:51 – 04:12 Transit: 02:31 52°</p>	<p style="text-align: center;">Primary Focus</p>  <p style="font-size: small;">Orion Nebula (M-42) Constellation: Orion</p>
<p>Running Man Nebula (NGC 1977) Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Orion Coordinates: 05hr 35' 16" -04° 41' 47"</p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: NGC 1977</p> <p>Imaging Window: 12:51 – 04:12 Transit: 02:31 52°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Pinwheel Cluster (M-36) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster Constellation: Auriga Coordinates: 05hr 36' 18" 34° 08' 27"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: M-36/NGC-1960</p> <p>Imaging Window: 10:54 – 05:31 Transit: 02:32 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – November 13 2023

<p>Simeis 147 (SH2-240) Config: C11-HD HS ZWO6200MC</p> <p>Type: Diffuse Nebula Constellation: Taurus</p> <p>Camera Rotation - 90° Coordinates: Frame 01 RA: 05hr 45' 38" DEC: 27° 56' 31" Frame 02 RA: 05hr 36' 28" DEC: 27° 56' 31"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects:SH2-240</p> <p>Imaging Window: 11:06 – 05:31 Transit: 02:35 85°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4 Composite-2</p>
<p>Simeis 147 (SH2-240) Config: C11-HD HS ZWO6200MC</p> <p>Type: Diffuse Nebula Constellation: Taurus Coordinates: 05hr 39' 04" 28° 00' 00"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects:SH2-240</p> <p>Imaging Window: 11:06 – 05:31 Transit: 02:35 85°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>




Prospective Imaging Objects – November 13 2023

<p>Flame and Horsehead Nebula (NGC 2024, B 33) Config: C11-HD HS ZWO6200MC</p> <p>Type: Diffuse/Dark Nebula Peak: Constellation: Orion Coordinates: 05hr 40' 04" -02° 28' 13"</p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: NGC 2024, B 33</p> <p>Imaging Window: 12:39 – 04:36 Transit: 02:38 54°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="text-align: center;"><small>Flame and Horsehead Nebula Constellation: Orion</small></p>
<p>Flame Nebula (NGC 2024) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Orion Coordinates: 05hr 41' 45.843" -01° 49' 31.401"</p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: NGC 2024</p> <p>Imaging Window: 12:39 – 04:36 Transit: 02:38 54°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;"><small>Flame Nebula (NGC 2024) Constellation: Orion</small></p>
<p>Horsehead Nebula (B 33) Config: C1 LF ZWO6200MC </p> <p>Type: Dark Nebula Peak: Constellation: Orion Coordinates: 05hr 40' 59" -02° 31' 47"</p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: B 33</p> <p>Imaging Window: 12:42 – 04:32 Transit: 02:37 54°</p>	<p style="text-align: center;">Primary Focus</p>  <p style="text-align: center;"><small>Horsehead Nebula (B 33) Constellation: Orion</small></p>

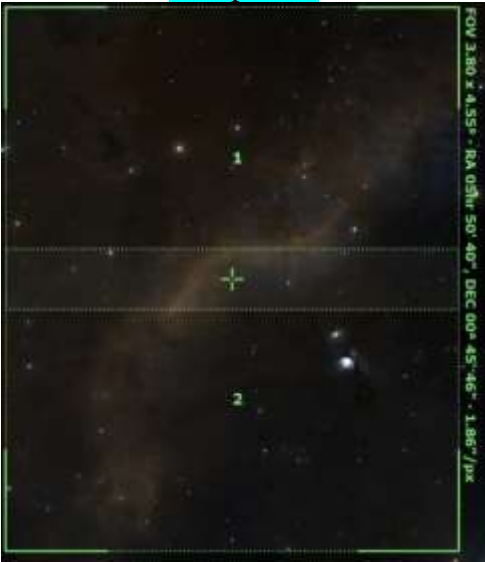


Prospective Imaging Objects – November 13 2023

<p>NGC 2022 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Peak: Constellation: Orion Coordinates: 05hr 42' 07" 09° 04' 55"</p> <p>Close Star: SAO-112740 (Bellatrix) Catalog Objects: NGC 2022</p> <p>Imaging Window: 11:53 – 05:23 Transit: 02:38 66°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">NGC-2022 Cambridge, Ontario RA: 05h 42m 07.00s DEC: 09d 04m 55.00s FOV: 1.04 x 1.28" RA: 05h 42m 07.00s DEC: 09d 04m 55.00s</p>
<p>NGC 1961 Config: C11HD ZWO6200MC </p> <p>Type: Spiral Galaxy Peak: Constellation: Camelopardalis Coordinates: 05hr 43' 27" 69° 20' 48"</p> <p>Close Star: SAO-40750 (Menkalinan) Catalog Objects: NGC 1961</p> <p>Imaging Window: 11:22 – 05:31 Transit: 02:38 54°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Galaxy Cluster (NGC-1961) etc. FOV: 1.04 x 1.28" RA: 05h 43m 27.00s DEC: 69d 20m 48.00s</p>
<p>M-78 Config: C11-HD FR ZWO6200MC </p> <p>Type: Dark Nebula Peak: Constellation: Orion</p> <p>Frame 01 RA: 05hr 47' 05"DEC: 00° 20' 09"</p> <p>Frame 02 RA: 05hr 47' 05"DEC: -00° 14' 43"</p> <p>Close Star: SAO-132346 (Anilam) Catalog Objects: M 78</p> <p>Imaging Window: 12:34 – 04:52 Transit: 02:43</p>	<p style="text-align: center;">C-11 HD: Focal Reducer Composite!</p>  <p style="font-size: small;">FOV: 1.04 x 1.28" RA: 05h 47m 05.00s DEC: 00d 20m 09.00s</p>




Prospective Imaging Objects – November 13 2023

<p>M-78 Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright and Dark Nebula Peak: Constellation: Orion Coordinates: 05hr 46' 59" 00° 08' 59"</p> <p>Close Star: SAO-132346 (Anilam) Catalog Objects: M 78</p> <p>Imaging Window: 12:34 – 04:52 Transit: 02:43</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>M-78 Config: C11HD ZWO6200MC </p> <p>Type: Bright and Dark Nebula Peak: Constellation: Orion Coordinates: 05hr 47' 03" 00° 09' 46"</p> <p>Close Star: SAO-132346 (Anilam) Catalog Objects: M 78</p> <p>Imaging Window: 12:34 – 04:52 Transit: 02:43</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Salt and Pepper Cluster(M-37) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster Constellation: Auriga Coordinates: 05hr 52' 18" 32° 33' 11"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: M-37/NGC-2099</p> <p>Imaging Window: 11:12 – 05:31 Transit: 02:48 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – November 13 2023

<p>LDN-1622 Complex Config: C11HD ZWO6200MC </p> <p>Type: Dark Nebula & Nebula Peak: Constellation: Orion</p> <p>Coordinates: Pane 1: 05hr 50' 40", 01° 46' 30" Pane 2, 05hr 50' 40", 00° 14' 57"</p> <p>Close Star: SAO-132346 (Annilam) Catalog Objects: LDN 1622 Imaging Window: 12:33 – 05:08 Transit: 02:51 59°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4 Composite!</p> 
<p>LDN-1622 (Region 01) Config: C11HD ZWO6200MC </p> <p>Type: Dark Nebula & Nebula Peak: Constellation: Orion</p> <p>Coordinates: 05hr 51' 00" 00° 59' 47"</p> <p>Close Star: SAO-132346 (Annilam) Catalog Objects: LDN 1622 Imaging Window: 12:33 – 05:08 Transit: 02:51 59°</p>	<p style="text-align: center;">HyperStar</p> 
<p>LDN-1622 (Region 02) Config: C11HD ZWO6200MC </p> <p>Type: Dark Nebula & Nebula Peak: Constellation: Orion</p> <p>Coordinates: 05hr 49' 55" 00° 10' 35"</p> <p>Close Star: SAO-132346 (Annilam) Catalog Objects: LDN 1622 Imaging Window: 12:33 – 05:08 Transit: 02:51 59°</p>	<p style="text-align: center;">HyperStar</p> 


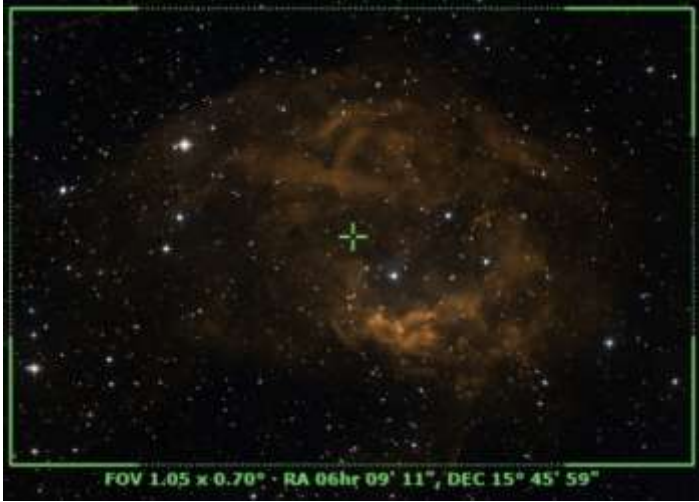

Prospective Imaging Objects – November 13 2023

<p>LDN-1622 (Region 03) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright and Dark Nebula Peak: Coordinates: 05hr 54' 51" 01° 47' 10"</p> <p>Close Star: SAO-112740(Bellatrix) Catalog Objects: LDN-1622</p> <p>Imaging Window: 12:33 – 05:08 Transit: 02:51 59°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>LDN 1622 Config: C11HD ZWO6200MC </p> <p>Type: Dark Nebula Peak: Constellation: Orion Camera Rotation - 90° Frame 01 RA: 05hr 56' 28"DEC: 01° 58' 32" Frame 02 RA: 05hr 54' 08"DEC: 01° 58' 35" Close Star: SAO-132346 (Alnilam) Catalog Objects: LDN 1622</p> <p>Imaging Window: 12:33 – 05:08 Transit: 02:51</p>	<p style="text-align: center;">C-11 HD: Focal Reducer Composite!</p> 
<p>LDN-1622 Config: C11HD FR ZWO6200MC </p> <p>Type: Bright and Dark Nebula Peak: Constellation: Orion Coordinates: 05hr 54' 52" 01° 49' 51"</p> <p>Close Star: SAO-112740(Bellatrix) Catalog Objects: LDN-1622</p> <p>Imaging Window: 12:33 – 05:08 Transit: 02:51</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 




Prospective Imaging Objects – November 13 2023

<p>LDN 1622 Config: C11HD ZWO6200MC </p> <p>Type: Dark Nebula Peak: Constellation: Orion Coordinates: 05hr 54' 55" 01° 49' 49"</p> <p>Close Star: SAO-132346 (Anilam) Catalog Objects: LDN 1622</p> <p>Imaging Window: 12:33 – 05:08 Transit: 02:51</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Angel Nebula (NGC 2170) Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright and Dark Nebula Peak: Constellation: Monoceros Coordinates: 06hr 08' 26" -06° 25' 24"</p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: NGC 2170</p> <p>Imaging Window: 01:34 – 05:31 Transit: 03:03</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> <p style="text-align: center;">FDV 1.04 x 0.70" - RA 06hr 08' 26", DEC -06° 25' 24"</p> 
<p>Angel Nebula (NGC 2170) Config: C11HD ZWO6200MC </p> <p>Type: Bright and Dark Nebula Peak: Constellation: Monoceros Coordinates: 06hr 08' 23" -06° 19' 23"</p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: NGC 2170</p> <p>Imaging Window: 01:34 – 05:31 Transit: 03:03</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Angel Nebula (NGC 2170) Constellation: Monoceros Coordinates: RA 06h 08m 23s, DEC -06d 19m 23s Imaging Window: 01:34 - 05:31 Transit: 03:03</p>



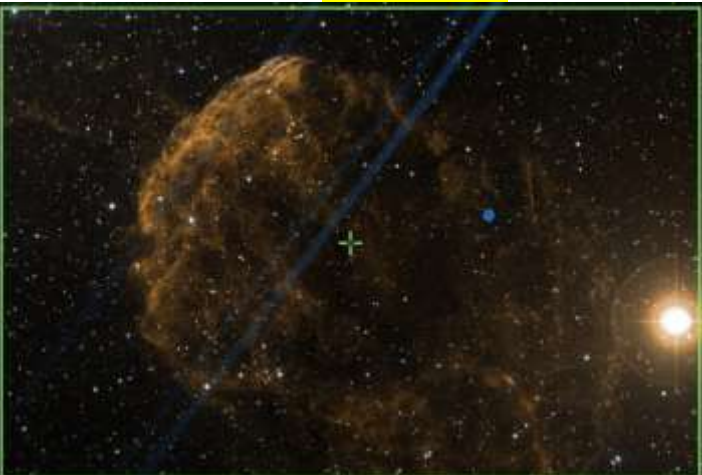
Prospective Imaging Objects – November 13 2023

<p>IC-2162 & SH 2-261 Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Orion Coordinates: 06hr 10' 56" 16° 32' 17" Angle: 90° East</p> <p>Close Star: SAO-78297 (Calix) Catalog Objects: IC-2162 Sh 2-261</p> <p>Imaging Window: 12:01 – 05:31 Transit: 03:04 72°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>Lower's Nebula (Sh 2-261) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Orion Coordinates: 06hr 09' 11" 15° 45' 59"</p> <p>Close Star: SAO-78297 (Calix) Catalog Objects: Sh 2-261</p> <p>Imaging Window: 12:01 – 05:31 Transit: 03:04 72°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Lower's Nebula (Sh 2-261) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Orion Coordinates: 06hr 08' 59" 15° 46' 39"</p> <p>Close Star: SAO-78297 (Calix) Catalog Objects: Sh 2-261</p> <p>Imaging Window: 12:01 – 05:31 Transit: 03:04 72°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – November 13 2023

<p>M-35, NGC-2158 Config: C11-HD FR ZWO6200MC </p> <p>Type: Open Cluster Pair Constellation: Gemini Coordinates: 06hr 08' 39" 24° 14' 48"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: M-35/NGC-2168, NGC-2158</p> <p>Imaging Window: 11:42 – 05:31 Transit: 03:05 81°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Monkey Head (NGC-2174) Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Orion Coordinates: 06hr 09' 50" 20° 29' 50"</p> <p>Close Star: SAO-78297 (Calix) Catalog Objects: NGC 2174/Sh 2-252</p> <p>Imaging Window: 11:50 – 05:31 Transit: 03:05 77°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> <p style="text-align: center;">FOV 1.04 x 0.69° · RA 06hr 09' 55", DEC 20° 33' 45"</p> 
<p>Monkey Head (NGC 2174) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Orion Coordinates: 06hr 09' 50" 20° 29' 50"</p> <p>Close Star: SAO-78297 (Calix) Catalog Objects: NGC 2174/Sh 2-252</p> <p>Imaging Window: 11:50 – 05:31 Transit: 03:05 77°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Monkey Head Nebula (NGC-2174) <small>© 2023 Astro-Physics, Inc. All Rights Reserved. ZWO Optics, Inc. All Rights Reserved. C-11 HD Telescopium, ZWO Optics, Inc. All Rights Reserved.</small></p>




Prospective Imaging Objects – November 13 2023

<p>IC 2162 Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Orion Coordinates: 06hr 12' 25" 17° 59' 26"</p> <p>Close Star: SAO-78297 (Calix) Catalog Objects: IC 2162</p> <p>Imaging Window: 12:00 – 05:31 Transit: 03:09 75°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;"><small>Bright Nebula IC-2162 © 2023 Starizona LLC</small></p>
<p>Jellyfish Nebula (IC 443) Config: C11-HD HS ZWO6200MC</p> <p>Type: Supernova Remnant Peak: Constellation: Gemini Coordinates: 06hr 19' 56" 23° 06' 17"</p> <p>Close Star: SAO-78297 (Calix) Catalog Objects: IC 443</p> <p>Imaging Window: 11:53 – 06:32 Transit: 03:12 79°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="text-align: center;"><small>Jellyfish Nebula (IC-443) © 2023 Starizona LLC</small></p>
<p>Jellyfish Nebula (IC 443) Config: C11-HD FR ZWO6200MC </p> <p>Type: Supernova Remnant Peak: Constellation: Gemini Coordinates: 06hr 16' 59" 22° 37' 29"</p> <p>Close Star: SAO-78297 (Calix) Catalog Objects: IC 443</p> <p>Imaging Window: 11:53 – 06:32 Transit: 03:12 79°</p>	<p style="text-align: center;">C11-HD: Focal Reducer</p> 




Prospective Imaging Objects – November 13 2023

<p>Rosette Nebula (NGC 2237) Config: C11-HD HS ZWO6200MC</p> <p>Type: Diffuse Nebula Constellation: Monoceros Coordinates: 06hr 31' 53.37" 04° 50' 45.29"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: NGC 2237 ,NGC-2244</p> <p>Imaging Window: 12:56 – 05:31 Transit: 03:27 62°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>Rosette Nebula (NGC 2237) Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Monoceros Coordinates: 06hr 32' 01" 04° 59' 28"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: NGC 2237</p> <p>Imaging Window: 12:56 – 05:31 Transit: 03:27 62°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Rosette Nebula (NGC 2237) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Monoceros Coordinates: 06hr 32' 02" 04° 58' 14"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: NGC 2237</p> <p>Imaging Window: 12:56 – 05:31 Transit: 03:27 62°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – November 13 2023

<p>IC-2169 Config: C11 HS ZWO6200MC</p> <p>Type: Bright Nebula Peak: Constellation: Monoceros Coordinates: 06hr 36' 00" 10° 16' 17"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: IC 2169</p> <p>Imaging Window: 12:40 – 05:31 Transit: 03:27 67°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>IC 2169 Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Monoceros Coordinates: 06hr 31' 21" 09° 56' 20"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: IC 2169</p> <p>Imaging Window: 12:40 – 05:31 Transit: 03:27 67°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>IC 2169 Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Monoceros Coordinates: 06hr 31' 36" 09° 58' 16"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: IC 2169</p> <p>Imaging Window: 12:40 – 05:31 Transit: 03:27 67°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

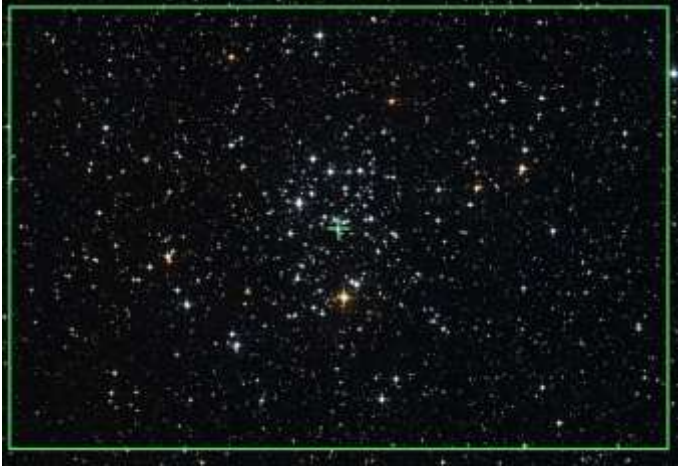


Prospective Imaging Objects – November 13 2023

<p>Hubble's Variable Nebula (NGC 2261) Config: C11HD ZWO6200MC </p> <p>Type: Reflection Nebula Constellation: Monoceros Coordinates: 06hr 39' 12" 08° 45' 00"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: NGC 2261</p> <p>Imaging Window: 12:52 – 05:31 Transit: 03:35 65°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Christmas Tree & Cone Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Coordinates: Pane 1: 06hr 40' 53", 10° 07' 47" Pane 2, 06hr 40' 53", 09° 34' 40"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: NGC 2264/Sh 2-273</p> <p>Imaging Window: 12:50 – 05:31 Transit: 03:37 67°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer Composite!</p> 
<p>Christmas Tree & Cone Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Monoceros Coordinates: 06hr 40' 47" 09° 42' 40" Angle: 90° East</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: NGC 2264/Sh 2-273</p> <p>Imaging Window: 12:50 – 05:31 Transit: 03:37 67°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 


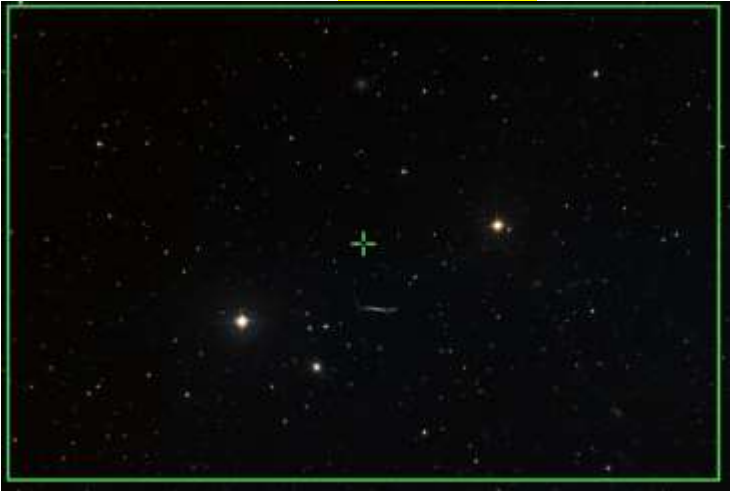
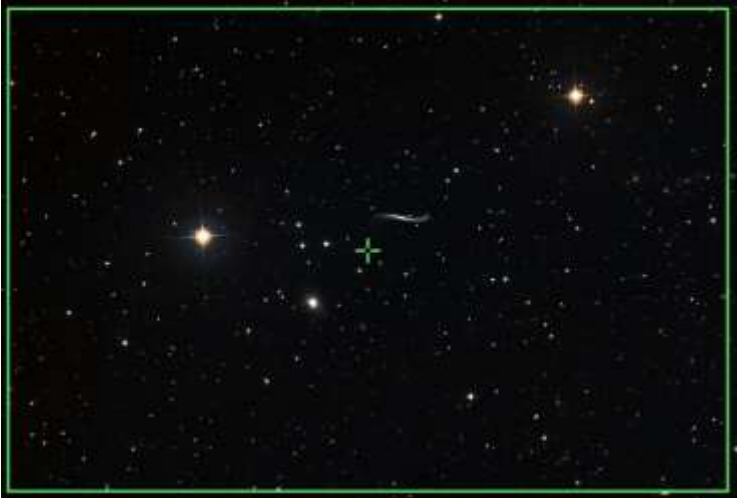
Prospective Imaging Objects – November 13 2023

<p>Christmas Tree Cluster (NGC 2264) Config: C1 LF ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Monoceros Coordinates: 06hr 40' 58.74" 09° 53' 32.69"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: NGC 2264/Sh 2-273</p> <p>Imaging Window: 12:50 – 05:31 Transit: 03:37 67°</p>	<p style="text-align: center;">Primary Focus</p>  <p style="font-size: small;">NGC 2264: Christmas Tree Cluster Jason Bauer 2013/11/04</p>
<p>Cone Nebula-1 (NGC 2264) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Monoceros Coordinates: 06hr 41' 07" 09° 27' 52"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: NGC 2264</p> <p>Imaging Window: 12:50 – 05:31 Transit: 03:37 67°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-41 (NGC 2287) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster Constellation: Canis Major Coordinates: 06hr 46' 09" 20° 47' 35"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: M-41/NGC 2287</p> <p>Imaging Window: *01:56 – 05:26 Transit: 03:42 36°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – November 13 2023

<p>M-50 (NGC 2323) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster Constellation: Monoceros Coordinates: 07hr 02' 48" -08° 22' 33"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: M-50/NGC 2323</p> <p>Imaging Window: *01:28 – 05:31 Transit: 03:59 48°</p>	<p>C-11 HD: Primary Focus</p> 
<p>Seagull Nebula (IC-2177) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Monoceros Coordinates: 07hr 06' 20" -11° 06' 56"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: IC-2177</p> <p>Imaging Window: *01:39 – 05:31 Transit: 04:01 46°</p>	<p>C-11 HD: HyperStar v4 - 90° Rotation</p>  <p><small>Seagull Nebula (IC-2177, NGC-2317, NGC-2353, NGC-2343) Copyright © 2013-2023 Starizona Optics, Inc. All rights reserved. This image is for personal use only. No part of this image may be reproduced without the written permission of Starizona Optics, Inc.</small></p>
<p>Seagull Nebula (IC 2177) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Monoceros Coordinates: 07hr 04' 47" -10° 27' 49"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: IC 2177</p> <p>Imaging Window: *01:39 – 05:31 Transit: 04:01 46°</p>	<p>C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – November 13 2023

<p>NGC-2346 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Peak: Constellation: Monoceros Coordinates: 07hr 09' 23" 00° 48' 22"</p> <p>Close Star: SAO-115756 (Procyon) Catalog Objects: NGC-2346</p> <p>Imaging Window: *01:28 – 05:31 Transit: 04:05 56°</p>	<p style="text-align: center;">C-11 HD: Primary Focus x2</p> 
<p>Integral Sign Galaxy (UGC 3697) Config: C11HD FR ZWO6200MC </p> <p>Type: Galaxy Group Constellation: Camelopardalis Coordinates: 07hr 11' 40" 71° 56' 04"</p> <p>Close Star: SAO-40186 (Capella) Catalog Objects: UGC-3697, UGC-3714, UGC-3701</p> <p>Imaging Window: 11:54 – 05:31 Transit: 04:07 52°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Integral Sign Galaxy (UGC 3697) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Constellation: Camelopardalis Coordinates: 07hr 11' 50" 71° 48' 14"</p> <p>Close Star: SAO-40186 (Capella) Catalog Objects: UGC-3697, UGC-3714</p> <p>Imaging Window: 11:54 – 05:31 Transit: 04:07 52°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 


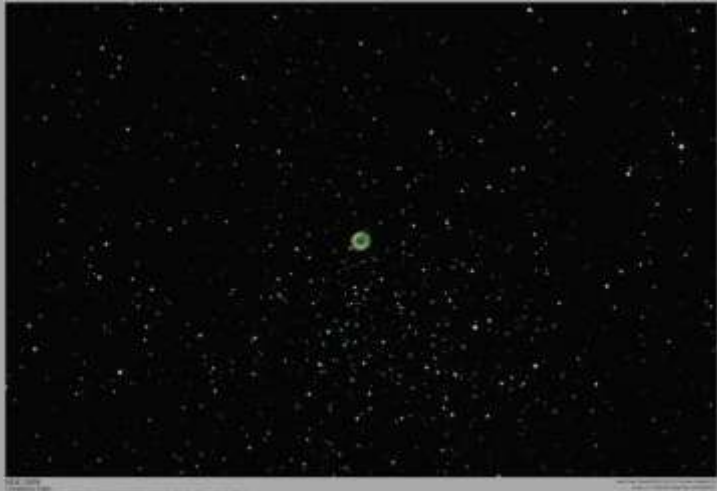

Prospective Imaging Objects – November 13 2023

<p>Thor's Helmet (NGC-2359) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Constellation: Canis Major Coordinates: 07h 18' 26.223" -13° 15' 29.563"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: NGC-2359/ Sh2-298/ LBN1041</p> <p>Imaging Window: *02:07 – 05:31 Transit: 04:14 43°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;"><small>Thor's Helmet (NGC 2359) Copyright © 2023 by [unreadable]</small></p>
<p>NGC-2371 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Constellation: Gemini Coordinates: 07° 25' 34" 29° 29' 18"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: NGC-2371</p> <p>Imaging Window: 12:49 – 05:31 Transit: 04:21 86°</p>	<p style="text-align: center;">C-11 HD: Primary Focus x2</p> 
<p>Medusa Nebula (Abell 21) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Gemini Coordinates: 07h 29' 00" 13° 15' 00"</p> <p>Close Star: SAO-115756 (Procyon) Catalog Objects: Abell 21</p> <p>Imaging Window: 01:28 – 05:31 Transit: 04:25 70°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;"><small>Abell-21 (Medusa Nebula) Copyright © 2023 by [unreadable]</small></p>




Prospective Imaging Objects – November 13 2023

<p>Eskimo Nebula (NGC-2392) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Gemini Coordinates: 07h 29' 11" 20° 54' 45"</p> <p>Close Star: SAO-79666 (Pollux) Catalog Objects: NGC-2392</p> <p>Imaging Window: 01:09 – 05:31 Transit: 04:25 70°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">NGC-2392 (Eskimo Nebula) Constellation: Gemini RA: 07h 29m 11.1s Dec: +20° 54' 45.0" Mag: 11.1</p>
<p>M-47 (NGC-2422) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Puppis Coordinates: 07h 36' 36" -14° 32' 19"</p> <p>Close Star: SAO-79666 (Pollux) Catalog Objects: M-47/NGC-2422</p> <p>Imaging Window: *02:35 – 05:31 Transit: 04:32 42°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-2403 Config: C11HD ZWO6200MC </p> <p>Type: Barred Spiral Galaxy</p> <p>Constellation: Camelopardalis Coordinates: 07h 36' 51" 65° 36' 06"</p> <p>Close Star: SAO-79666 (Pollux) Catalog Objects: NGC-2403</p> <p>Imaging Window: 01:00 – 05:31 Transit: 04:32 58°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

Prospective Imaging Objects – November 13 2023

<p>Intergalactic Wanderer (NGC-2419) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Lynx Coordinates: 07h 38' 09" 38° 52' 57"</p> <p>Close Star: SAO-79666 (Pollux) Catalog Objects: NGC-2419</p> <p>Imaging Window: 12:50 – 05:31 Transit: 04:34 84°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-46 (NGC-2437) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster with PN</p> <p>Constellation: Puppis Coordinates: 07h 41' 45" -14° 46' 43"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: M-46/NGC-2437, NGC-2438</p> <p>Imaging Window: *02:46 – 05:31 Transit: 04:37 42°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Bow-Tie Nebula (NGC-2440) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Puppis Coordinates: 07° 41' 55" -18° 12' 29"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: NGC-2440</p> <p>Imaging Window: *02:29 – 05:31 Transit: 04:38 38°</p>	<p style="text-align: center;">C-11 HD: Primary Focus x2</p>  <p style="text-align: center; font-size: small;">FOV 0.73 x 0.49° - RA 07hr 41' 55", DEC -18° 12' 29"</p>

Prospective Imaging Objects – November 13 2023

<p>Butterfly Cluster (M-93, NGC-2447) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Puppis Coordinates: 07h 44' 46" -23° 51' 52"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: M-93/NGC-2447</p> <p>Imaging Window: *02:29 – 05:31 Transit: 04:40 33°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-48 (NGC-2548) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Hydra Coordinates: 08h 13' 46" -05° 46' 05"</p> <p>Close Star: SAO-115756 (Procyon) Catalog Objects: M-48/NGC-2548</p> <p>Imaging Window: 02:57 – 05:31 Transit: 05:09 51°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-2610 Config: C11-HD HS ZWO6200MC</p> <p>Type: Planetary Nebula</p> <p>Constellation: Hydra Coordinates: 08h 33' 23" -16° 08' 55"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: NGC-2610</p> <p>Imaging Window: 03:08 – 05:31 Transit: 05:29 41°</p>	<p style="text-align: center;">C-11 HD: Primary Focus x2</p>  <p style="text-align: center; font-size: small;">FOV 0.73 x 0.49" - RA 08hr 33' 23", DEC -16° 08' 55"</p>

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Page

Prospective Imaging Objects – November 13 2023

Imaging Summary November 13, 2023

Astronomical Dusk = 06:52

Astronomical Dawn = 05:31

HyperStar: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Nebula	Nebula	SH2-132	06:52 – 11:05	07:16	02	Cepheus: Bright Nebula
HyperStar	Nebula	Nebula	SH2-155	06:52 – 11:34	07:54	04	Cepheus: Cave Nebula
HyperStar	Nebula	Nebula	SH2-157	06:52 – 11:58	08:13	06	Cassiopeia: Lobster Claw and Bubble Nebula
HyperStar	Nebula	Nebula	NGC-7822	06:52 – 12:24	08:59	08	Composite2! Cepheus: Nebula
HyperStar	Nebula	Nebula	NGC-7822	06:52 – 12:24	08:59	09	Cepheus: Nebula
HyperStar	Nebula	Neb, OC	NGC-457	06:52 – 02:03	10:16	17	Cassiopeia: Open Cluster NGC-457 & Dolphin Neb
HyperStar	Nebula	Nebula	IC-1848, 1805	07:47 – 03:12	11:29	22	Composite4! Cassiopeia: Heart and Soul Nebulas
HyperStar	Nebula	Nebula	IC-1805	07:47 – 03:12	11:29	22	Cassiopeia: Heart Nebula
HyperStar	Nebula	Nebula	IC-1848	08:04 – 03:32	11:48	25	Cassiopeia: Soul Nebula
HyperStar	Nebula	Nebula	NGC-1499	09:18 – 04:41	12:59	28	Perseus: California Nebula
HyperStar	Nebula	Nebula	IC-405	10:34 – 05:31	02:13	32	Auriga: Flaming Star Nebula
HyperStar	Nebula	Nebula	M-42	12:51 – 04:12	02:31	36	Composite6! Orion: Orion Complex
HyperStar	Nebula	Nebula	M-42	12:51 – 04:12	02:31	36	Orion: Orion Nebula
HyperStar	Nebula	Nebula	SH2-240	11:06 – 05:31	02:35	38	Composite2! Taurus: Simeis 147 Bubble
HyperStar	Nebula	Nebula	SH2-240	11:06 – 05:31	02:35	38	Taurus: Simeis 147 Bubble
HyperStar	Nebula	Nebula	NGC-2024, B33	12:39 – 04:36	02:38	39	Orion: Flame and Horsehead Nebula
HyperStar	Nebula	Nebula	LDN-1622	12:33 – 05:08	02:51	42	Composite2! Orion: Band Complex
HyperStar	Nebula	Nebula	LDN-1622	12:33 – 05:08	02:51	42	Orion: Band Complex
HyperStar	Nebula	Nebula	LDN-1622 R1	12:33 – 05:08	02:51	42	Orion: Band Region 1
HyperStar	Nebula	Nebula	LDN-1622 R2	12:33 – 05:08	02:51	42	Orion: Band Region 2
HyperStar	Nebula	Nebula	LDN-1622 R3	12:33 – 05:08	02:51	43	Orion: Band Region 3
HyperStar	Nebula	Nebula	IC-2162, SH2-261	12:01 – 05:31	03:04	45	Rotation Orion: Interesting Composition
HyperStar	Nebula	Nebula	IC-443	11:53 – 06:32	03:12	47	Gemini: Jellyfish Nebula
HyperStar	Nebula	Nebula	NGC-2237	12:56 - 05:31	03:27	49	Monoceros: Rosette Nebula

Prospective Imaging Objects – November 13 2023

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Nebula	Nebula	IC-2169	12:40 – 05:31	03:27	50	Monoceros: Bright Nebula, & Dark Nebula Region
HyperStar	Nebula	Nebula	IC-2177	*01:39-05:31	04:01	53	Monoceros: Seagull Nebula
HyperStar	Nebula	Nebula					

Prospective Imaging Objects – November 13 2023

Imaging Summary November 13, 2023

Astronomical Dusk = 06:52

Astronomical Dawn = 05:31

HyperStar: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Broad Spectrum	Galaxies	NGC-147	06:52 – 01:20	09:30	10	Cassiopeia: Galaxy Pair NGC-147 & NGC-185
HyperStar	Broad Spectrum	Galaxy	M-31	06:52 – 01:26	09:40	12	Andromeda: The Great Andromeda Galaxy
HyperStar	Broad Spectrum	Galaxy	M-31	06:52 – 01:26	09:40	13	Rotation! Andromeda: Andromeda Galaxy
HyperStar	Broad Spectrum	Gal & GC	NGC-288, 253	*08:01-11:37	09:50	14	Sculptor: Galaxy and Globular pair
HyperStar	Broad Spectrum	Ref Neb	IC-59	06:52 – 01:37	09:54	16	Cassiopeia: Bright Nebula
HyperStar	Broad Spectrum	Galaxy	M-33	06:57 – 02:04	10:31	19	Triangulum: Triangulum Galaxy
HyperStar	Broad Spectrum	OC	NGC-869, 884	07:31 – 03:07	11:19	21	Perseus: Hand chi Persei
HyperStar	Broad Spectrum	Refl Neb	M-45	09:21 – 04:06	12:43	27	Taurus: Pleiades Open Cluster
HyperStar	Broad Spectrum	OC	C-41	10:19 – 04:28	01:23	29	Taurus: Hyades Star Cluster
HyperStar	Broad Spectrum	DN	IC-2118	*12:00-04:03	02:01	30	Eridanus: Witch Head Nebula
HyperStar	Broad Spectrum	BN	NGC-1788	12:13 – 03:53	02:03	31	Orion: Foxface Nebula

Prospective Imaging Objects – November 13 2023

Imaging Summary November 13, 2023

Astronomical Dusk = 06:52

Astronomical Dawn = 05:31

Focal Reducer: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Nebula	Nebula	SH2-132	06:52 – 11:05	07:16	02	Cepheus: Bright Nebula
Focal Reducer	Nebula	Nebula	SH2-142	06:52 – 11:30	07:42	04	Cepheus: Wizard Nebula
Focal Reducer	Nebula	Nebula	SH2-155	06:52 – 11:34	07:54	05	Cepheus: Cave Nebula
Focal Reducer	Nebula	Nebula	SH2-157	06:52 – 11:58	08:13	06	Cassiopeia: Lobster Claw
Focal Reducer	Nebula	Nebula	NGC-7822	06:52 – 12:24	08:59	09	Cepheus: Diffuse Nebula
Focal Reducer	Nebula	Nebula	NGC-246, 255	*07:28-11:54	09:44	13	Cetus: Planetary Nebula & 2 Galaxies
Focal Reducer	Nebula	Nebula	NGC-281	06:52 – 01:38	09:50	15	Cassiopeia: Pack Man Nebula
Focal Reducer	Nebula	Nebula	IC-1795	07:41 – 03:04	11:22	22	Cassiopeia: Fish Head Nebula
Focal Reducer	Nebula	Nebula	IC-1805	07:47 – 03:12	11:29	23	Cassiopeia: Heart Nebula
Focal Reducer	Nebula	Nebula	IC-405	10:34 – 05:31	02:13	32	Auriga: Flaming Star Nebula
Focal Reducer	Nebula	Nebula	IC-410	10:41 – 05:31	02:19	33	Auriga: Tadpoles
Focal Reducer	Nebula	Nebula	NGC1055,1931	10:45 – 05:31	02:24	34	Composit2! Rotation! Auriga: Spider & Fly
Focal Reducer	Nebula	Nebula	NGC-1977	12:51 – 04:12	02:31	37	Orion: Running Man Nebula
Focal Reducer	Nebula	Nebula	M-78	12:34 – 04:52	02:43	40	Composit2! Orion: Dark Nebula Region
Focal Reducer	Nebula	Nebula	M-78	12:34 – 04:52	02:43	41	Orion: Dark Nebula Region
Focal Reducer	Nebula	Nebula	NGC-2170	01:34 – 05:31	03:03	44	Monoceros: Angel Nebula
Focal Reducer	Nebula	Nebula	SH 2-261	12:01 – 05:31	03:04	45	Orion: Lower's Nebula
Focal Reducer	Nebula	Nebula	NGC-2174	11:50 – 05:31	03:05	46	Orion: Monkey Head Nebula
Focal Reducer	Nebula	Nebula	IC-443	11:53 – 06:32	03:12	47	Gemini: Jellyfish Nebula
Focal Reducer	Nebula	Nebula	NGC-2237	12:56 – 05:31	03:27	49	Monoceros: Rosette Nebula Core
Focal Reducer	Nebula	Nebula	IC-2169	12:40 – 05:31	03:27	50	Monoceros: Blue Nebula
Focal Reducer	Nebula	Nebula	NGC-2264	12:50 – 05:31	03:37	51	Composite2! Monoceros: Xmas Tree & Cone
Focal Reducer	Nebula	Nebula	NGC-2264	12:50 – 05:31	03:37	51	Rotation! Monoceros: Xmas Tree & Cone

Prospective Imaging Objects – November 13 2023

Imaging Summary November 13, 2023

Astronomical Dusk = 06:52

Astronomical Dawn = 05:31

Focal Reducer: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Broad Spectrum	Galaxies	NGC-7331 et. El.	06:52 – 11:11	07:33	03	Rotation! Pegasus: Stephan's Quintet & NGC 7331
Focal Reducer	Broad Spectrum	Galaxies	NGC-7619 et. El.	06:52 – 10:59	08:17	07	Pegasus: Pegasus Cluster of Galaxies
Focal Reducer	Broad Spectrum	Galaxies	NGC-147, 185	06:52 – 01:20	09:30	11	Composite 2! Cassiopeia: Galaxy Pair
Focal Reducer	Broad Spectrum	Open Cl	NGC-188	*06:52-02:29	09:44	15	Cepheus: Open Star Cluster NGC-188
Focal Reducer	Broad Spectrum	Galaxy	M-33	06:57 – 02:04	10:31	19	Rotation! Triangulum: Triangulum Galaxy
Focal Reducer	Broad Spectrum	Galaxies	M-77, NGC-1055	09:28 – 01:49	11:38	23	Cetus: Galaxy Pair
Focal Reducer	Broad Spectrum	DN/RN	NGC-1788	12:13 – 03:53	02:03	31	Orion: Foxface Nebula
Focal Reducer	Broad Spectrum	DN	LDN-1622	12:33 – 05:08	02:51	43	Composite2! Rotation Orion: Dark Nebula Region
Focal Reducer	Broad Spectrum	DN	LDN-1622	12:33 – 05:08	02:51	43	Orion: Dark Nebula Region
Focal Reducer	Broad Spectrum	OC	M-35, NGC-2158	11:42 – 05:31	03:05	46	Gemini: Open Cluster Pair
Focal Reducer	Broad Spectrum	Galaxies	UGC-3697	11:54 – 05:31	04:07	54	Camelopardalis: Integral Sign Galaxy et. El.

Prospective Imaging Objects – November 13 2023

Imaging Summary November 13, 2023

Astronomical Dusk = 06:52

Astronomical Dawn = 05:31

Primary Focus: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	Nebula	SH2-132	06:52 – 11:05	07:16	02	Cepheus: Bright Nebula
Primary Focus	Nebula	Nebula	SH2-142	06:52 – 11:30	07:42	04	Cepheus: Wizard Nebula
Primary Focus	Nebula	Nebula	SH2-155	06:52 – 11:34	07:54	05	Cepheus: Cave Nebula
Primary Focus	Nebula	Nebula	NGC-7635	06:52 – 12:00	08:17	06	Cepheus: Bubble Nebula
Primary Focus	Nebula	Nebula	NGC-7822	06:52 – 12:24	08:59	09	Cepheus: Emission Nebula
Primary Focus	Nebula	PN	NGC-40	06:52 – 12:02	09:10	10	Cepheus: Bow-Tie Nebula
Primary Focus	Nebula	PN	NGC-246	*07:28-11:54	09:44	13	Cetus: Skull Nebula
Primary Focus	Nebula	Nebula	IC-59	06:52 – 01:37	09:54	16	Cassiopeia: Reflection Nebula
Primary Focus	Nebula	Nebula	SH2-188	06:52 – 02:14	10:27	18	Cassiopeia: Firefox Nebula
Primary Focus	Nebula	PN	M-76	06:52 – 10:39	10:39	20	Perseus: Little Dumbbell Nebula
Primary Focus	Nebula	Nebula	IC-1805	07:47 – 03:12	11:29	23	Cassiopeia: Heart Nebula
Primary Focus	Nebula	Nebula	IC-1848	08:04 – 03:32	11:48	25	Cassiopeia: Soul Nebula
Primary Focus	Nebula	Nebula	NGC-1333	08:51 – 04:00	12:26	26	Perseus: Reflection Nebula
Primary Focus	Nebula	Nebula	NGC-1360	*10:36-02:23	12:30	26	Fornax: Robins Egg Nebula
Primary Focus	Nebula	Nebula	IC-348	09:05 – 04:17	12:41	26	Perseus: Reflection Nebula
Primary Focus	Nebula	Nebula	NGC-1501	09:20 – 04:47	01:03	28	Camelopardalis: Oyster Nebula
Primary Focus	Nebula	Nebula	NGC-1514	09:32 – 04:39	01:06	28	Taurus: Crystal Ball Nebula
Primary Focus	Nebula	Nebula	NGC-1535	*11:43-02:29	01:10	29	Eridanus: Cleopatra's Eye
Primary Focus	Nebula	Nebula	NGC-1555	10:05 – 04:31	01:18	29	Taurus: Hind's Variable Nebula
Primary Focus	Nebula	Nebula	NGC-1579	09:46 – 05:06	01:26	30	Perseus: Trifid of the North
Primary Focus	Nebula	Nebula	IC-405	10:34 – 05:31	02:13	32	Auriga: Flaming Star Nebula
Primary Focus	Nebula	Nebula	IC-410	10:41 – 05:31	02:19	33	Auriga: Tadpoles
Primary Focus	Nebula	PN	IC-418	*12:16-04:25	02:23	34	Lepus: Spirograph Nebula
Primary Focus	Nebula	Nebula	IC-417	10:45 – 05:34	02:24	34	Auriga: The Spider

Prospective Imaging Objects – November 13 2023

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	Nebula	NGC-1931	10:49 – 05:31	02:27	35	Auriga: The Fly
Primary Focus	Nebula	Nebula	M-1	11:12 – 05:31	02:31	35	Taurus: Crab Nebula
Primary Focus	Nebula	Nebula	M-42	12:51 – 04:12	02:31	37	Orion: The Orion Nebula
Primary Focus	Nebula	Nebula	NGC-2024	12:39 – 04:36	02:38	39	Orion: Flame Nebula
Primary Focus	Nebula	Nebula	B-33	12:42 – 04:32	02:37	39	Orion: Horsehead Nebula
Primary Focus	Nebula	Nebula	NGC-2022	11:53 – 05:23	02:38	40	Orion: Planetary Nebula
Primary Focus	Nebula	Nebula	M-78	12:34 – 04:52	02:43	41	Orion: Bright and Dark Nebula
Primary Focus	Nebula	Nebula	NGC-2170	01:34 – 05:31	03:03	44	Monoceros: Angel Nebula
Primary Focus	Nebula	Nebula	SH 2-261	12:01 – 05:31	03:04	45	Orion: Lower's Nebula
Primary Focus	Nebula	Nebula	NGC-2174	11:50 – 05:31	03:05	46	Orion: Monkey Head Nebula
Primary Focus	Nebula	Nebula	IC-2162	12:00 – 05:31	03:09	47	Orion: Bright Nebula
Primary Focus	Nebula	Nebula	IC-443	11:53 – 06:32	03:12	48	Gemini: Jellyfish Nebula
Primary Focus	Nebula	Nebula	SH 2-249	11:55 - 05:31	03:15	48	Gemini: IC-444
Primary Focus	Nebula	PN	IC-2165	*01:11-05:26	03:18	48	Canis Major: Small Planetary Nebula
Primary Focus	Nebula	DN	NGC-2237	12:56 – 05:31	03:27	49	Monoceros: Rosette Nebula Core
Primary Focus	Nebula	BN	IC-2169	12:40 – 05:31	03:27	50	Monoceros: Bright Blue Nebula
Primary Focus	Nebula	RN	NGC-2261	12:52 – 05:31	03:35	51	Monoceros: Hubble's Variable Nebula
Primary Focus	Nebula	Nebula	NGC-2264	12:50 – 05:31	03:37	52	Monoceros: Christmas Tree Cluster
Primary Focus	Nebula	Nebula	NGC-2264 R1	12:50 – 05:31	03:37	52	Monoceros: Cone Nebula
Primary Focus	Nebula	Nebula	IC-2177	*01:39-05:31	04:01	53	Monoceros: Seagull Nebula
Primary Focus	Nebula	Nebula	NGC-2346	*01:28-05:31	04:05	54	Monoceros: Planetary Nebula
Primary Focus	Nebula	Nebula	NGC-2359	*02:07-05:31	04:14	55	Canis Major: Thor's Helmet
Primary Focus	Nebula	Nebula	NGC-2371	12:49 – 05:31	04:21	55	Gemini: Planetary Nebula
Primary Focus	Nebula	Nebula	Abell-21	01:28 – 05:31	04:25	55	Gemini: Medusa Nebula
Primary Focus	Nebula	Nebula	NGC-2392	01:09 – 05:31	04:25	56	Gemini: Eskimo Nebula
Primary Focus	Nebula	PN	M-46	*02:46-05:31	04:37	57	Puppis: Open Cluster and Planetary Nebula
Primary Focus	Nebula	Nebula	NGC-2440	*02:29-05:31	04:38	57	Puppis: Bow-Tie Nebula
Primary Focus	Nebula	PN	NGC-2610	03:08 – 05:31	05:29	58	Hydra: Small Planetary Nebula

Prospective Imaging Objects – November 13 2023

Imaging Summary November 13, 2023

Astronomical Dusk = 06:52

Astronomical Dawn = 05:31

Primary Focus: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxies	NGC-7317	06:52 – 11:11	07:33	03	Pegasus: Stephan's Quintet
Primary Focus	Broad Spectrum	Galaxies	NGC-7331	06:52 – 11:13	07:34	03	Pegasus: Galaxy Group NGC-7331
Primary Focus	Broad Spectrum	Galaxy	NGC-7479	06:52 – 10:56	08:02	05	Pegasus: Galaxy PGC-70419
Primary Focus	Broad Spectrum	Galaxies	NGC-7619 Et. El.	06:52 – 10:59	08:17	07	Pegasus: Pegasus Cluster of galaxies
Primary Focus	Broad Spectrum	OC	M-52	06:52 – 12:04	08:22	07	Cassiopeia: Open Cluster NGC-7654
Primary Focus	Broad Spectrum	OC	NGC-7789	06:52 – 12:43	08:54	08	Cassiopeia: Caroline's Rose
Primary Focus	Broad Spectrum	Galaxies	NGC 67-72 et. El.	06:52 – 12:48	09:15	10	Andromeda: Andromeda Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	NGC-147	06:52 – 01:20	09:30	11	Cassiopeia: Med Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-185	06:52 – 01:26	09:36	11	Cassiopeia: Sm Elipical Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-110	06:52 – 01:24	09:37	12	Andromeda: Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-32	06:52 – 01:26	09:40	12	Andromeda: Companion to M-31
Primary Focus	Broad Spectrum	Galaxy	NGC-247	*07:11-12:11	09:44	14	Cetus: Needle's Eye Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-253	*07:45-11:43	09:44	14	Sculptor: Sculptor Galaxy
Primary Focus	Broad Spectrum	Globular	NGC-288	*08:01-11:37	09:50	15	Sculptor: Med-Large Globular
Primary Focus	Broad Spectrum	Galaxy	IC-1613	06:52 – 12:20	10:02	16	Cetus: Irregular Dwarf Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-404	06:52 – 01:47	10:06	17	Andromeda: Mirachs Ghost
Primary Focus	Broad Spectrum	OC	NGC-457	06:52 – 02:03	10:16	17	Cassiopeia: Owl Cluster
Primary Focus	Broad Spectrum	Galaxies	Arp-133	08:21 – 12:24	10:22	18	Cetus: Minkowski's Object
Primary Focus	Broad Spectrum	OC	M-103	06:52 – 02:14	10:30	18	Cassiopeia: Open Cluster
Primary Focus	Broad Spectrum	Galaxy	M-33	06:57 – 02:04	10:31	19	Triangulum: Triangulum Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-74	07:30 – 01:37	10:33	20	Pisces: Med Face on Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-772	07:44 – 02:08	10:56	20	Aries: Nautilus Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-891	07:32 – 03:06	11:19	21	Andromeda: Edge on Galaxy

Prospective Imaging Objects – November 13 2023

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	NGC-925	07:46 – 03:02	11:24	21	Triangulum: Small Galaxy PGC-9332
Primary Focus	Broad Spectrum	Galaxy	NGC-1055	09:28 – 01:49	11:38	24	Cetus: Edge on Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-77	09:31 – 01:48	11:39	24	Cetus: Galaxy NGC-1068
Primary Focus	Broad Spectrum	OC	M-34	07:51 – 03:26	11:39	24	Perseus: Open Cluster NGC-1039
Primary Focus	Broad Spectrum	Galaxies	Abell-426	08:30 – 04:02	12:16	25	Perseus: Perseus Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxy	IC-342	09:21 – 04:05	12:43	27	Camelopardalis: Large Face-On Galaxy
Primary Focus	Broad Spectrum	OC	M-45	09:21 – 04:06	12:43	27	Taurus: Pleiades
Primary Focus	Broad Spectrum	DN	IC-2118	*12:00-04:03	02:01	30	Eridanus: Witch Head Nebula
Primary Focus	Broad Spectrum	DN	NGC-1788	12:13 – 03:53	02:03	31	Orion: Foxface Nebula
Primary Focus	Broad Spectrum	GC	M-79	*12:16-04:25	02:20	33	Lepus: Med Globular
Primary Focus	Broad Spectrum	OC	M-38	10:44 – 05:31	02:25	35	Auriga: Starfish Cluster
Primary Focus	Broad Spectrum	OC	M-36	10:54 – 05:31	02:32	37	Auriga: Pinwheel Cluster
Primary Focus	Broad Spectrum	Galaxy	NGC-1961	11:22 – 05:31	02:38	40	Camelopardalis: Galaxy Group
Primary Focus	Broad Spectrum	OC	M-37	11:12 – 05:31	02:48	41	Auriga: Salt and Pepper Cluster
Primary Focus	Broad Spectrum	DN	LDN-1622	12:33 – 05:08	02:51	44	Orion: Dark Nebula LDN1622
Primary Focus	Broad Spectrum	OC	M-41	*01:56-05:26	03:42	52	Canis Major: NGC-2287
Primary Focus	Broad Spectrum	OC	M-50	*01:28-05:31	03:59	53	Monoceros: Open Cluster NGC-2323
Primary Focus	Broad Spectrum	Galaxies	UGC-3697	11:54 – 05:31	04:07	54	Camelopardalis: Integral Sign Galaxy Et. El.
Primary Focus	Broad Spectrum	OC	M-47	*02:35-05:31	04:32	56	Puppis: Open Cluster NGC-2422
Primary Focus	Broad Spectrum	Galaxy	NGC-2403	01:00 – 05:31	04:32	56	Camelopardalis: Med Face on Galaxy
Primary Focus	Broad Spectrum	GC	NGC-2419	12:50 – 05:31	04:34	57	Lynx: Intergalactic Wanderer
Primary Focus	Broad Spectrum	OC	M-93	*02:29-05:31	04:40	58	Puppis: Butterfly Cluster
Primary Focus	Broad Spectrum	OC	M-48	02:57 – 05:31	05:09	58	Hydra: Open Cluster NGC-2548

Prospective Imaging Objects – November 13 2023

Imaging Summary November 13, 2023

Astronomical Dusk = 06:52

Astronomical Dawn = 05:31

Primary Prospects

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HS2a	HyperStar	Broadband	Nebula	SH 2-132	06:52 – 11:05	07:16	02	Cepheus: Bright Nebula
	HyperStar	Broadband	Galaxies	M-31, M-32	06:52 – 01:26	09:40	13	Rotation Andromeda: Andromeda Galaxy
	HyperStar	Nebula	Nebula	IC-59	06:52 – 01:37	09:54	16	Cassiopeia: IC-59, IC-63
	HyperStar	Broadband	Galaxy	M-33	06:57 – 02:04	10:31	19	Triangulum: Triangulum Galaxy
HS1a	HyperStar	Nebula	Nebula	IC-1848	07:47 – 03:12	11:29	22	Comp4! Cassiopeia: Heart & Soul Nebulas
	HyperStar	Nebula	Nebula	NGC-1788	12:13 – 03:53	02:03	31	Orion: Foxface Nebula
	HyperStar	Nebula	Nebula	M-42	12:51 – 04:12	02:31	36	Orion: The Orion Nebula
HS2b	HyperStar	Nebula	Nebula	SH2-240	11:06 – 05:31	02:35	38	Rot-Comp2 Taurus: Simeis 147
	HyperStar	Nebula	Nebula	LDN-1622	12:33 – 05:08	02:51	42	Comp2! LDN 1622 Complex
	HyperStar	Nebula	Nebula	IC-2162, SH2-261	12:01 – 05:31	03:04	45	Rotation Orion: Nebula Pair
HS1b	HyperStar	Nebula	Nebula	IC-2169	12:40 – 05:31	03:27	50	Monoceros: IC-2169 Nebula
FR1a	Focal Reducer	Nebula	Nebula	SH2-132	06:52 – 11:05	07:16	02	Cepheus: Bright Nebula
	Focal Reducer	Broadband	Galaxies	NGC-7331*	06:52 - 11:11	07:33	03	Rot Pegasus: Stephan's Quin & NGC7331
	Focal Reducer	Nebula	Nebula	SH 2-142	06:52 – 11:30	07:42	04	Cepheus: Wizard Nebula
FR2a	Focal Reducer	Nebula	Nebula	SH 2-155	06:52 – 11:34	07:54	05	Cepheus: Cave Nebula
	Focal Reducer	Broadband	Galaxies	NGC-7619	06:52 – 10:59	08:17	07	Pegasus: Pegasus Galaxy Cluster
	Focal Reducer	Nebula	Nebula	NGC-281	06:52 – 01:38	09:50	15	Cassiopeia: Packman Nebula
	Focal Reducer	Broadband	Galaxy	M-33	06:57 – 02:04	10:31	19	Rotation Triangulum: Triangulum Galaxy
	Focal Reducer	Nebula	Nebula	NGC-1788	12:13 – 03:53	02:03	31	Orion: Foxface Nebula
FR2b	Focal Reducer	Nebula	Nebula	NGC-1977	12:51 – 04:12	02:31	37	Orion: Running Man Nebula
	Focal Reducer	Nebula	Nebula	M-78	12:34 – 04:52	02:43	40	Comp2! Orion: Dark & Bright Nebula
	Focal Reducer	Nebula	Nebula	LDN-1622	12:33 – 05:08	02:51	43	Rot-Comp2 Orion: Dark Nebula
	Focal Reducer	Nebula	Nebula	SH 2-61	12:01 – 05:31	03:04	45	Orion: Lower's Nebula

Prospective Imaging Objects – November 13 2023

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
FR1b	Focal Reducer	Nebula	Nebula	NGC-2174	11:50 – 05:31	03:05	46	Orion: Monkey Head Nebula
	Focal Reducer	Nebula	Nebula	IC-443	11:53 – 06:32	03:12	47	Gemini: Jellyfish Nebula
	Focal Reducer	Nebula	Nebula	NGC-2237	12:56 – 05:31	03:27	49	Monoceros: Rosette Nebula Core
	Focal Reducer	Nebula	Nebula	IC-2169	12:40 – 05:31	03:27	50	Monoceros: Blue Nebula
	Focal Reducer	Nebula	Nebula	NGC-2264	12:50 -05:31	03:37	51	Comp2 Monoceros: Xmas Tree & Cone
PF2a	Primary Focus	Broadband	Galaxies	NGC-7317	06:52 – 11:11	07:33	03	Pegasus: Stephan's Quintet
PF1a	Primary Focus	Nebula	Nebula	SH 2-155	06:52 – 11:34	07:54	05	Cepheus: Cave Nebula
	Primary Focus	Broadband	Galaxies	NGC-7619	06:52 – 10:59	08:17	07	Pegasus: Pegasus Galaxy Cluster
	Primary Focus	Broadband	Galaxies	NGC 67-72	06:52 – 12:48	09:15	10	Andromeda: Andromeda Galaxy Group
PN1a	Primary Focus	Nebula	PN	NGC-40	06:52 – 12:02	09:10	10	Cepheus: Bow-Tie Nebula (Sm/Med)
	Primary Focus	Nebula	PN	NGC-246	*07:28-11:54	09:44	13	Cetus: Skull Nebula (Large)
	Primary Focus	Broadband	GC	NGC-288	*08:01-11:37	09:50	15	Sculptor: Med/Large Globular
	Primary Focus	Broadband	Galaxy	IC-1613	06:52 – 12:20	10:02	16	Cetus: Irregular Dwarf Galaxy
	Primary Focus	Broadband	Galaxies	Arp-133	08:21 – 12:24	10:22	18	Cetus: Minkowski's Object
	Primary Focus	Broadband	Galaxy	NGC-772	07:44 – 02:08	10:56	20	Aries: Nautilus Galaxy
	Primary Focus	Broadband	Galaxies	Abell-426	08:30 – 04:02	12:16	25	Perseus: Perseus Galaxy Cluster
PN1b	Primary Focus	Nebula	PN	NGC-1360	*10:36-02:23	12:30	26	Fornax: Robins Egg Nebula
	Primary Focus	Nebula	Nebula	IC-348	09:05 – 04:17	12:41	26	Perseus: Bright Nebula
PF2b	Primary Focus	Broadband	Galaxy	IC-342	09:21 – 04:05	12:43	27	Camelopardalis: Large Face On galaxy
	Primary Focus	Nebula	PN	NGC-1555	10:05 – 04:31	01:18	29	Taurus: Hind's Variable Nebula (Sm)
PF1b	Primary Focus	Nebula	Nebula	NGC-1579	09:46 – 05:06	01:26	30	Perseus: Trifid of the North
	Primary Focus	Nebula	Nebula	IC-405	10:34 – 05:31	02:13	32	Auriga: Flaming Star Nebula
	Primary Focus	Broadband	GC	M-79	*12:16-04:25	02:20	33	Lepus: Med Globular NGC-1904
	Primary Focus	Nebula	PN	IC-418	*12:16-04:25	02:23	34	Lepus: Spirograph Nebula (Sm)
	Primary Focus	Nebula	Nebula	NGC-1931	10:49 – 05:31	02:27	35	Auriga: The Fly
PN1c	Primary Focus	Nebula	PN	NGC-2261	12:52 – 05:31	03:35	51	Monoceros: Hubble's Variable Nebula
	Primary Focus	Nebula	Nebula	NGC-2265	12:50 – 05:31	03:37	52	Monoceros: Cone Nebula-1

Prospective Imaging Objects – November 13 2023

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Primary Focus	Nebula	Nebula	IC-2177	*01:39-05:31	04:01	53	Monoceros: Seagull Nebula head
	Primary Focus	Nebula	PN	NGC-2440	*02:29-05:31	04:38	57	Puppis: Bow-tie Nebula
	Primary Focus	Nebula	PN	NGC-2610	03:08 – 05:31	05:29	58	Hydra: Sm/Med Planetary

Prospective Imaging Objects – November 13 2023

Imaging Summary November 13, 2023

Astronomical Dusk = 06:52

Astronomical Dawn = 05:31

Imaging Plans

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Imaging Schedule
HS1a	HyperStar	Nebula	Nebula	IC-1848,1805	07:47 – 03:12	11:29	22	C1-C4 07:30 – 03:30 (Composite4!)
HS1b	HyperStar	Nebula	Nebula	IC-2169	12:40 – 05:31	03:27	50	3:30 – 5:30
HS2a	HyperStar	Nebula	Nebula	SH 2-132	06:52 – 11:05	07:16	02	07:00 – 11:00
HS2b	HyperStar	Nebula	Nebula	SH 2-240	11:06 – 05:31	02:35	38	11:00 – 05:30(Rot-Comp2)
FR1a	Focal Reducer	Nebula	Nebula	SH 2-132	06:52 – 11:05	07:16	02	07:00 – 11:30
FR1b	Focal Reducer	Nebula	Nebula	NGC-2174	11:50 – 05:31	03:05	46	11:30 – 05:31
FR2a	Focal Reducer	Nebula	Nebula	SH 2-155	06:52 – 11:34	07:54	05	07:00 – 11:30
FR2b	Focal Reducer	Nebula	Nebula	NGC-1977	12:51 – 04:12	02:31	37	01:00 – 04:00
PN1a	Primary Focus	Nebula	PN	NGC-40	06:52 – 12:02	09:10	10	07:00 – 11:00
PN1b	Primary Focus	Nebula	PN	NGC-1360	*10:36-02:23	12:30	26	11:00 – 02:00
PN1c	Primary Focus	Nebula	PN	NGC-2261	12:52 – 05:31	03:35	51	02:00 – 05:30
PF1a	Primary Focus	Nebula	Nebula	SH 2-155	06:52 – 11:33	07:54	05	07:00 – 11:00
PF1b	Primary Focus	Nebula	Nebula	NGC-1579	09:46 – 05:06	01:26	30	11:30 – 5:00
PF2a	Primary Focus	Broad Spectrum	Galaxies	NGC-7317	06:52 – 11:11	07:33	03	07:00 – 11:00
PF2b	Primary Focus	Broad Spectrum	Galaxy	IC-342	09:21 – 04:05	12:43	27	11:00 – 04:00