

# Prospective Imaging Objects – October 14 2023

## Astronomical Data

Sunrise	Sunset	Astronomical Dusk	Astronomical Dawn	Imaging	New Moon
06:31 am	05:55 pm	07:17 pm	05:37 am	10:20	Oct 14

## 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 - 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.


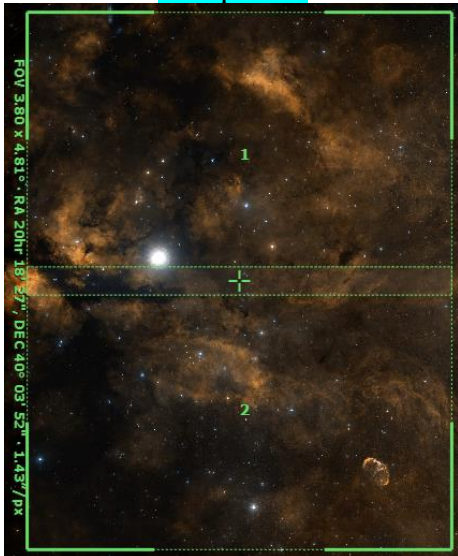
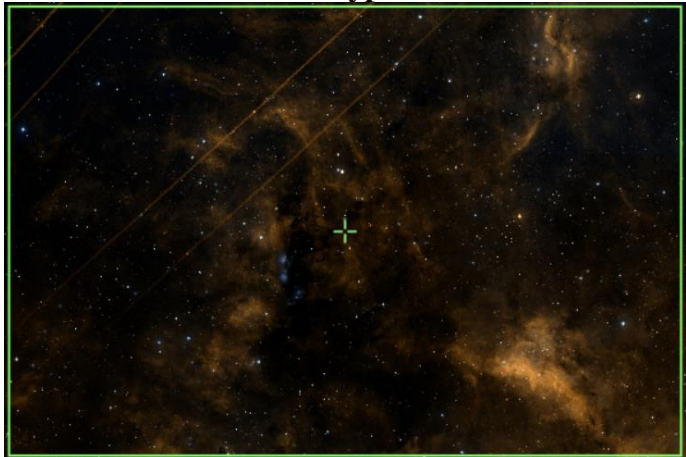
**07**: Imaging Window – Ideally the time the object is 45° above the horizon. Southern objects with negative DEC that do not peak above 45° are indicated with a \*. Imaging window for these objects may be based on 30° or even 25° above horizon for the imaging window.

**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.

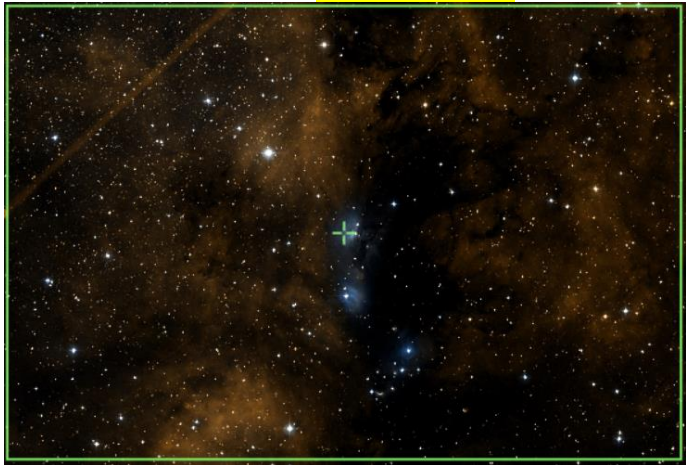
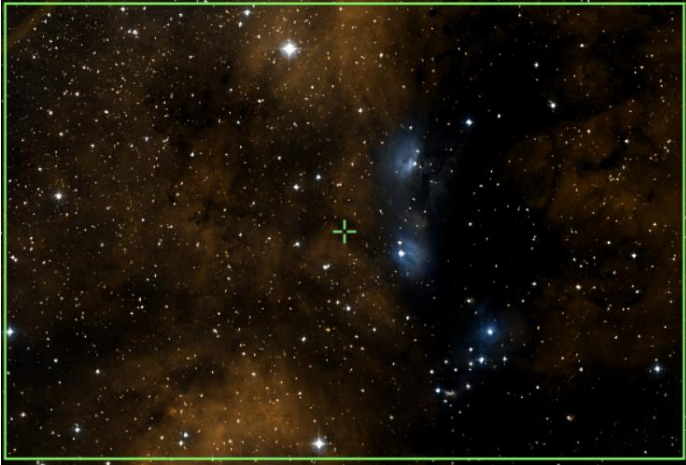
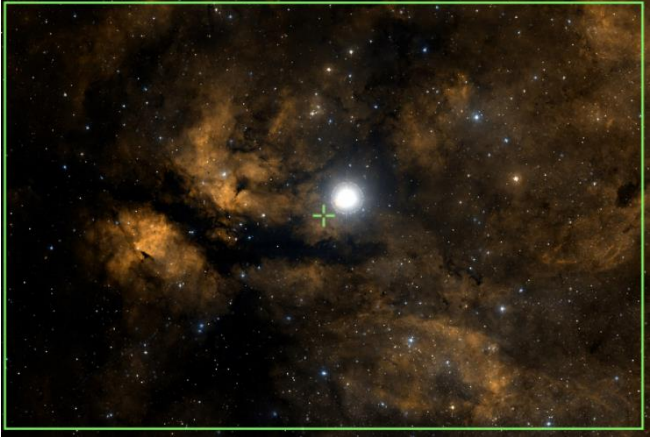
# Prospective Imaging Objects – October 14 2023

<p><b>NGC-6894</b> (PK 69-2.1) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>20h 16' 24"</b> <b>30° 33' 57"</b></p> <p>Close Star: <b>SAO-71070</b> (64 Cyg) Catalog Objects: <a href="#">NGC-6994</a> Imaging Window: <b>07:17 – 10:45</b> Transit: <b>07:12   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center; font-size: small;">FOV 0.73 x 0.48" · RA 20hr 16' 24", DEC 30° 33' 57" · 0.28"/px</p>
<p><b>IC-4997</b> (PK 58-10.1) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Sagitta</b> Coordinates: <b>20h 20' 09"</b> <b>16° 43' 56"</b></p> <p>Close Star: <b>SAO-106316</b> (Rotanev) Catalog Objects: <a href="#">IC-4997</a> Imaging Window: <b>07:17 – 10:22</b> Transit: <b>07:16   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center; font-size: small;">FOV 0.73 x 0.48" · RA 20hr 20' 09", DEC 16° 43' 56" · 0.28"/px</p>
<p><b>Blue Flash Nebula</b> (NGC-6905) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Delphinus</b> Coordinates: <b>20h 22' 24"</b> <b>20° 06' 18"</b></p> <p>Close Star: <b>SAO-108378</b> (Markab) Catalog Objects: <a href="#">NGC-6905</a> Imaging Window: <b>07:17 – 10:32</b> Transit: <b>07:18   77°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center; font-size: x-small;">Blue Flash Nebula (NGC-6905) Constellation: Delphinus Coordinates: 20h 22m 24s RA, 20° 06' 18" DEC FOV: 0.73 x 0.48 arcmin · Resolution: 0.28 arcsec/px</p>

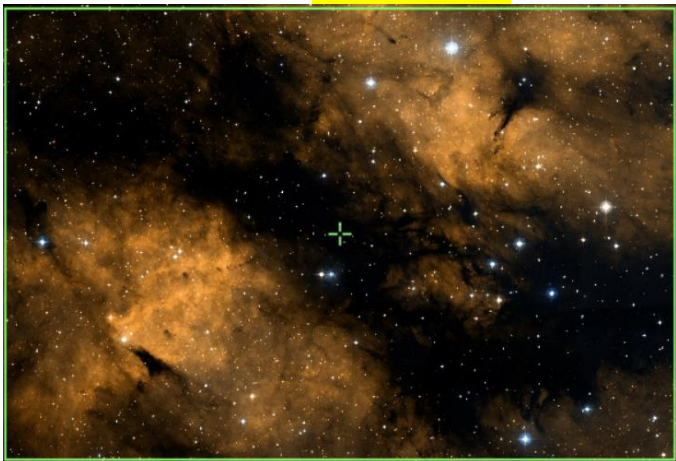


# Prospective Imaging Objects – October 14 2023

<p><b>Cooling Tower</b> (M-29 (NGC-6913) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>20h 24' 06"</b> <b>38° 29' 36"</b></p> <p>Close Star: <b>SAO-90981</b> (Scheat) Catalog Objects: <a href="#">M-29/NGC-6913</a> Imaging Window: <b>07:17 – 11:03</b> Transit: <b>07:20   85°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-6914 Region</b> Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b> 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: <b>SAO-49941</b> (Deneb) Catalog Objects: <a href="#">NGC-6914</a> Imaging Window: <b>07:17 – 11:07</b> Transit: <b>07:20   81°</b></p>	<p><b>C-11 HD: HyperStar v4 Composite!</b></p> 
<p><b>NGC-6914 Region</b> Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>20h 22' 52"</b> <b>42° 38' 53"</b></p> <p>Close Star: <b>SAO-49941</b> (Deneb) Catalog Objects: <a href="#">NGC-6914</a> Imaging Window: <b>07:17 – 11:07</b> Transit: <b>07:20   81°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p> 

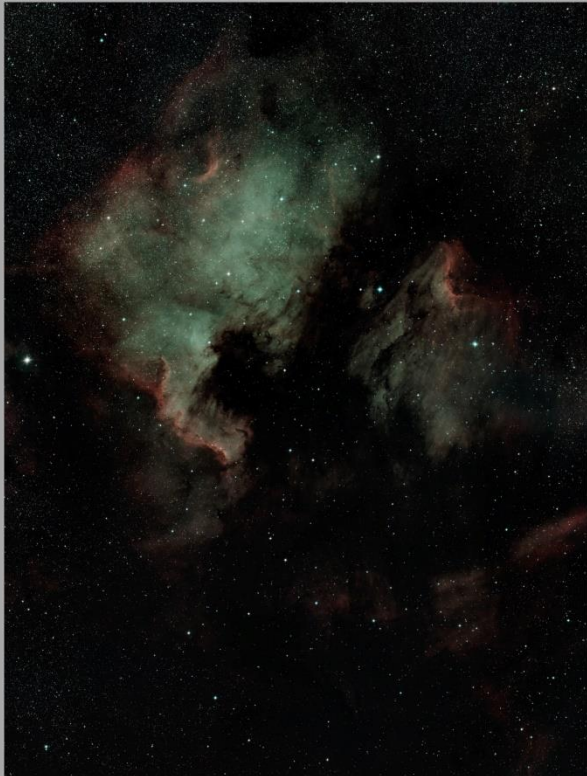

# Prospective Imaging Objects – October 14 2023

<p><b>NGC-6914 Region</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b>            Coordinates:  <b>20h 24' 48"</b>  <b>42° 29' 00"</b></p> <p>Close Star: <b>SAO-49941</b> (Deneb)            Catalog Objects: <a href="#">NGC-6914</a>            Imaging Window: <b>07:17 – 11:07</b>            Transit: <b>07:20   81°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>NGC-6914 Region</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b>            Coordinates:  <b>20h 25' 07"</b>  <b>42° 24' 34"</b></p> <p>Close Star: <b>SAO-49941</b> (Deneb)            Catalog Objects: <a href="#">NGC-6914</a>            Imaging Window: <b>07:17 – 11:07</b>            Transit: <b>07:20   81°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Butterfly Nebula (IC-1318)</b>            Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b>            Coordinates:  <b>20h 22' 57"</b>  <b>40° 09' 33"</b></p> <p>Close Star: <b>SAO-67174</b> (Vega)            Catalog Objects: <a href="#">IC-1318</a>            Imaging Window: <b>07:17 – 11:07</b>            Transit: <b>07:21   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 

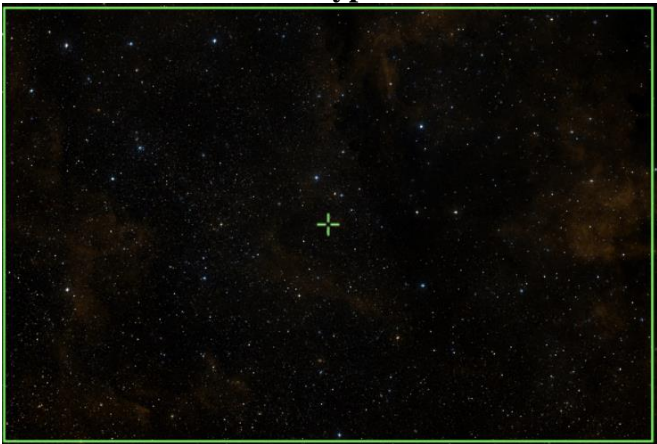
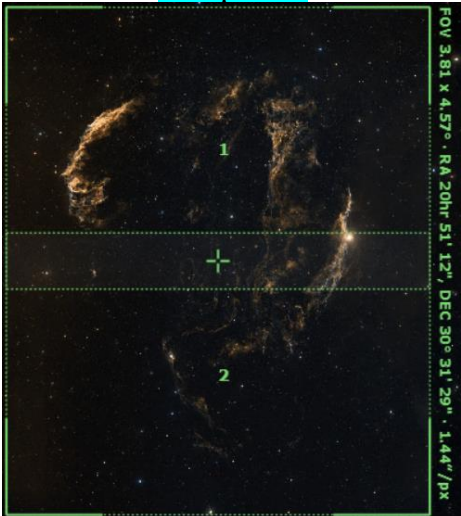
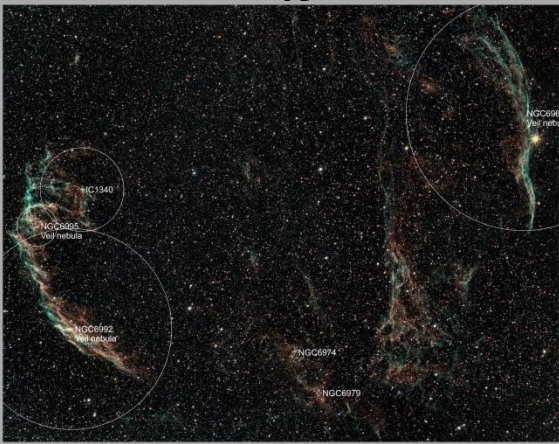
# Prospective Imaging Objects – October 14 2023

<p><b>Butterfly Nebula (IC-1318)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b>            Coordinates:  <b>20h 26' 59"</b>  <b>40° 06' 52"</b></p> <p>Close Star: <b>SAO-67174</b> (Vega)            Catalog Objects: <a href="#">IC-1318</a>            Imaging Window: <b>07:17 – 11:07</b>            Transit: <b>07:21   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Butterfly Nebula (IC-1318)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b>            Coordinates:  <b>20h 25' 40"</b>  <b>40° 17' 34"</b></p> <p>Close Star: <b>SAO-67174</b> (Vega)            Catalog Objects: <a href="#">IC-1318</a>            Imaging Window: <b>07:17 – 11:07</b>            Transit: <b>07:21   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Butterfly Nebula (IC-1318)            Constellation: Cygnus the Swan            RA = 20h 26m 59.5s, DEC = +40° 06' 52.0", Size = 42.3 x 28.5 arcmin, Orientation: 0.134deg E of N, (Pixel scale = 0.441 arcsec/pix, F1.279mm)</p> <p style="font-size: x-small;">James Webb Space Telescope (2023-08-08) by Lawrence, Charles, et al.            © 2023 James Webb Space Telescope. All rights reserved. C11-HD (F1.279mm)            Exposure: 180s, 2000x500px, Gain: 1000 (Offset: 100)</p>
<p><b>Fireworks Galaxy (NGC-6946)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Cepheus</b>            Coordinates:  <b>20° 34' 54"</b>  <b>60° 08' 60"</b></p> <p>Close Star: <b>SAO-19302</b> (Alderamin)            Catalog Objects: <a href="#">NGC-6946</a>            Imaging Window: <b>07:17 – 11:15</b>            Transit: <b>07:30   63°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 


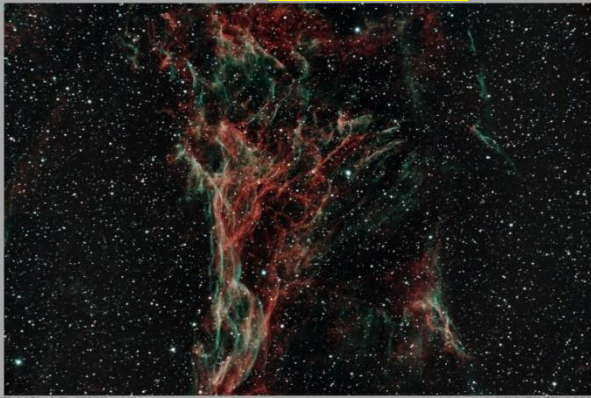

# Prospective Imaging Objects – October 14 2023

<p><b>Pelican &amp; N. America Nebula (IC-5070)</b>            Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b>            Coordinates:            Frame 1:              RA=20hr56'10" DEC=44°55'07"            Frame 2:              RA=20hr56'10" DEC=42°37'57"</p> <p>Close Star: <b>SAO-50180</b> (57 Cygni)            Catalog Objects: <a href="#">IC5070</a>            Imaging Window: <b>07:17 – 11:35</b>            Transit: <b>07:46   79°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b>  <span style="color: cyan;">Composite!</span></p>  <p style="font-size: small; text-align: center;">       North America (NGC-7000) and Pelican (IC-5070) Nebula        Constellation: Cygnus the Swan        RA: 20h 56m 10.00s DEC: 44° 55' 07.00" Orientation: 0deg E of N (Polar angle = 1.411 arcmin) (IC-5070)     </p> <p style="font-size: x-small; text-align: right;">       James Volder (Data)   2022.08.26-2022.09.06   Location: Chandler, AZ        Config: C-11HD HyperStar V4 OPT Radfan Total Ultra ZWO6200MC        Exposure Info: (Mount: 01 &amp; 121 ImagiStar) Gain: 100 Offset: 50     </p>
<p><b>Pelican &amp; N. America Nebula (IC-5070)</b>            Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b>            Coordinates:  <b>20h 57' 29"</b>  <b>44° 10' 10"</b></p> <p>Close Star: <b>SAO-50180</b> (57 Cygni)            Catalog Objects: <a href="#">IC5070</a>            Imaging Window: <b>07:17 – 11:35</b>            Transit: <b>07:46   79°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small; text-align: center;">       North American Nebula (NGC 7000) Pelican Nebula (IC 5070) and Open Star Cluster (NGC 6997)        Constellation: Cygnus the Swan     </p> <p style="font-size: x-small; text-align: right;">       James Volder   2019.02.20        Config: C11   HyperStar   Astromech C3-CCD   OPT 158C        Exposure Info: (358mag)Gain: Gain: 3200 Offset: 100     </p>

# Prospective Imaging Objects – October 14 2023

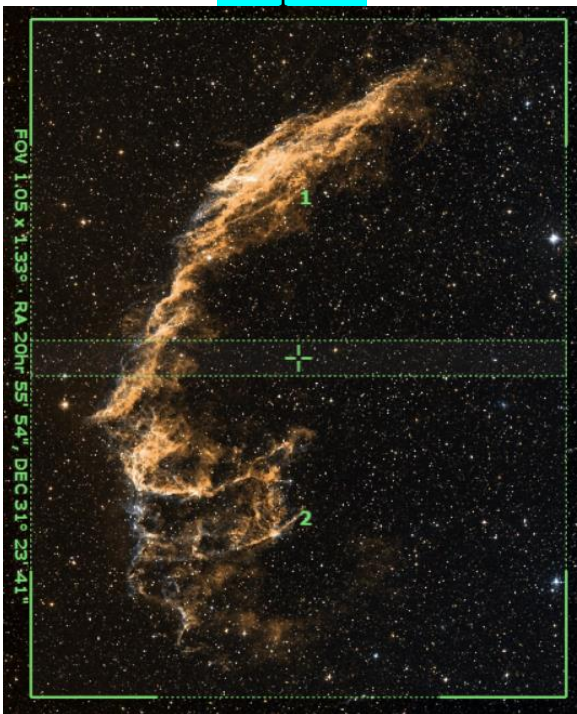

<p><b>Northern Coal Sack</b> (LDN-904)            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Dark Nebula</b></p> <p>Constellation: <b>Cygnus</b>            Coordinates:  <b>20h 51' 52"</b>  <b>39° 13' 34"</b></p> <p>Close Star: <b>SAO-49941</b> (Deneb)            Catalog Objects: <a href="#">LDN-904</a>            Imaging Window: <b>07:17 – 11:33</b>            Transit: <b>07:48   84°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>Veil Nebula</b> (NGC-6960)            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b>            Coordinates:  <b>P1:</b> RA: 20h51'12" DEC: 31°32'26"  <b>P2:</b> RA: 20h51'12" DEC: 29°30'31"</p> <p>Close Star: <b>SAO-70467</b> (52 Cygni)            Catalog Objects: <a href="#">NGC-6960</a>, 6992, 6995            Imaging Window: <b>07:17 – 11:23</b>            Transit: <b>07:48   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b>  <b>Composite!</b></p> 
<p><b>Veil Nebula</b> (NGC-6960)            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Supernova Remnant</b></p> <p>Constellation: <b>Cygnus</b>            Coordinates:  <b>20h 51' 15"</b>  <b>31° 03' 60"</b></p> <p>Close Star: <b>SAO-70467</b> (52 Cygni)            Catalog Objects: <a href="#">NGC-6960</a>, 6992, 6995            Imaging Window: <b>07:17 – 11:23</b>            Transit: <b>07:48   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 

# Prospective Imaging Objects – October 14 2023


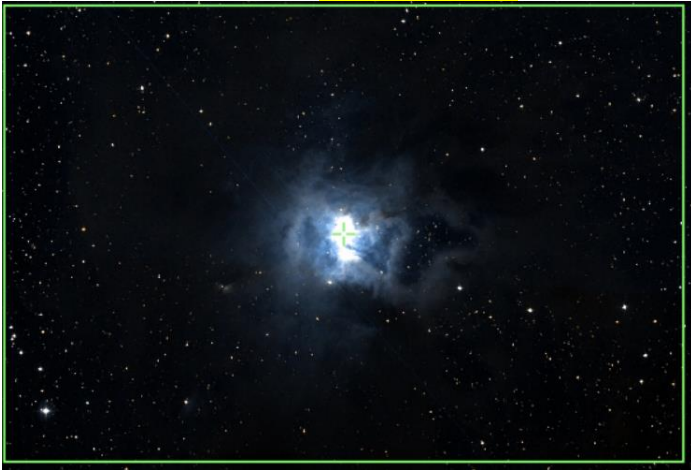

<p><b>Witch's Broom</b> (NGC-6960)            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b>            Coordinates:  <b>P1:</b> RA=20hr 46' 20" DEC=30° 54' 54"  <b>P2:</b> RA=20hr 46' 20" DEC=30° 17' 06"</p> <p>Close Star: <b>SAO-70467</b> (52 Cygni)            Catalog Objects: <a href="#">NGC-6960</a></p> <p>Imaging Window: <b>07:17 – 11:23</b>            Transit: <b>07:48   80°</b></p>	<p>C-11 HD: <b>Focal Reducer</b>  <b>Composite!</b></p> 
<p><b>Pickering's Triangular Wisp</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Supernova Remnant</b>            Constellation: <b>Cygnus</b>            Coordinates:  <b>20h 48' 16"</b>  <b>31° 37' 17"</b></p> <p>Close Star: <b>SAO-70467</b> (52 Cygni)            Catalog Objects: <a href="#">NGC-6960</a>            Imaging Window: <b>07:17 – 11:23</b>            Transit: <b>07:48   80°</b></p>	<p>C-11 HD: <b>Focal Reducer</b></p> 
<p><b>M-72</b> (NGC-6981)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Aquarius</b>            Coordinates:  <b>20h 53' 28"</b>  <b>-12° 32' 11"</b></p> <p>Close Star: <b>SAO-108378</b> (Markab)            Catalog Objects: <a href="#">M-72</a>/NGC-6981            Imaging Window: <b>*07:17 – 10:31</b>            Transit: <b>07:49   44°</b></p>	<p>C-11 HD: <b>Primary Focus</b></p> 




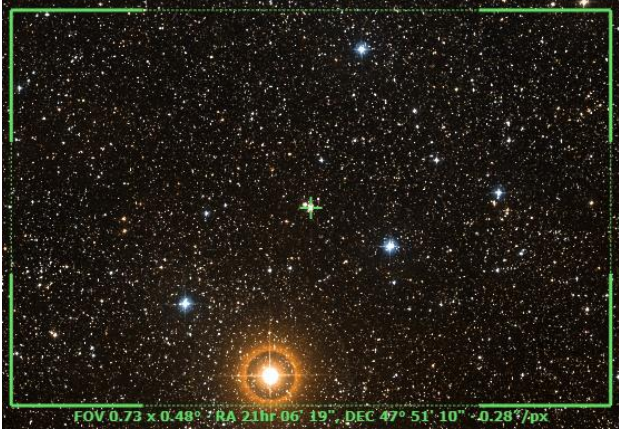
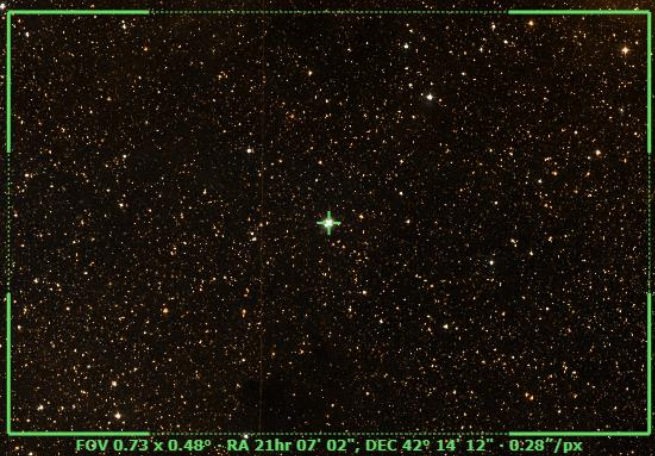
# Prospective Imaging Objects – October 14 2023

<p><b>Network Nebula</b> (NGC-6992) Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Supernova Remnant</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>P1:</b> RA= 20hr 55' 54" DEC= 31° 42' 35" <b>P2:</b> RA= 20hr 55' 54" DEC= 31° 04' 47"</p> <p>Close Star: <b>SAO-70474</b> (Gienah) Catalog Objects: <a href="#">NGC-6992</a> Imaging Window: <b>07:17 – 01:27</b> Transit: <b>07:52   88°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b> <b>Composite!</b></p> 
<p><b>M-73</b> (NGC-6994) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Aquarius</b> Coordinates: <b>20h 59' 00"</b> <b>-12° 37' 60"</b></p> <p>Close Star: <b>SAO-108378</b> (Markab) Catalog Objects: <a href="#">M-73</a>/NGC-6994 Imaging Window: <b>*07:17 – 10:31</b> Transit: <b>07:54   44°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – October 14 2023

<p><b>Fetus Nebula (NGC-7008)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>21h 00' 33"</b> <b>54° 32' 38"</b></p> <p>Close Star: <b>SAO-49941 (Deneb)</b> Catalog Objects: <a href="#">NGC-7008</a> Imaging Window: <b>07:17 – 11:46</b> Transit: <b>07:56   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Planetary Nebula NGC-7008 Constellation: Cygnus RA = 21h 00m 33.00s DEC = +54° 32' 38.00" Date = 2023-08-27 21:00:00 (UTC) Filter = H-alpha James Yoder - October 2023 08-27 21:00:00 - Cygnus, AZ Config:  C-11 HD: Kowa TM40250 ZWO6200MC  Focal Reducer: 1.25x (ImageScale: 0.460) (Gain: 100)</p>
<p><b>Iris Nebula (NGC 7023)</b> Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cepheus</b> Coordinates: <b>21h 01' 36"</b> <b>68° 10' 00"</b></p> <p>Close Star: <b>SAO-19302 (Alderamin)</b> Catalog Objects: <a href="#">NGC-7023</a> Imaging Window: <b>07:17 – 11:19</b> Transit: <b>07:57   55°</b></p>	<p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b></b></p> 
<p><b>Iris Nebula (NGC 7023)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cepheus</b> Coordinates: <b>21h 01' 36"</b> <b>68° 10' 00"</b></p> <p>Close Star: <b>SAO-19302 (Alderamin)</b> Catalog Objects: <a href="#">NGC-7023</a> Imaging Window: <b>07:17 – 11:19</b> Transit: <b>07:57   55°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC-7023 Iris Nebula in Cepheus James Yoder 2018.03.04</p>

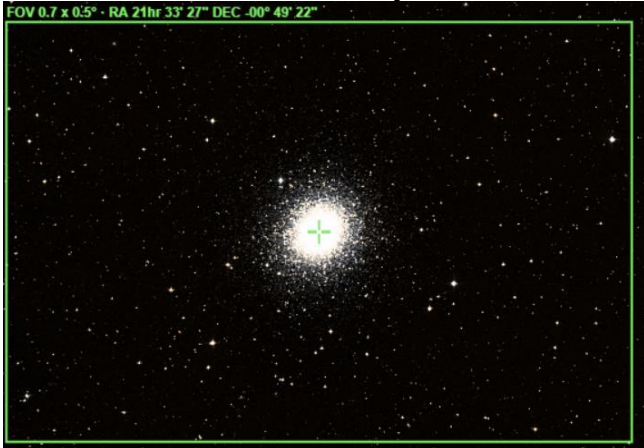
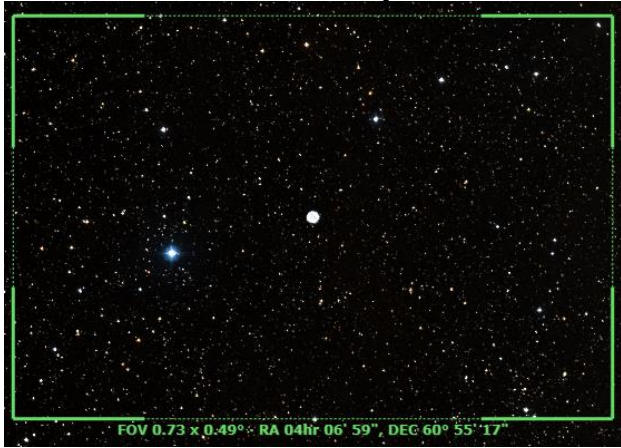

# Prospective Imaging Objects – October 14 2023

<p><b>Saturn Nebula</b> (NGC-7009) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Aquarius</b> Coordinates: <b>21h 04' 11"</b> <b>-11° 21' 47"</b></p> <p>Close Star: <b>SAO-191524</b> (Fomalhaut) Catalog Objects: <a href="#">NGC-7009</a> Imaging Window: *<b>07:17 – 10:48</b> Transit: <b>08:00</b>   <b>45°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-7026</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>21h 06' 19"</b> <b>47° 51' 10"</b></p> <p>Close Star: <b>SAO-50456</b> Catalog Objects: <a href="#">NGC-7026</a> Imaging Window: <b>07:17 – 11:52</b> Transit: <b>08:02</b>   <b>45°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-7027</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>21h 07' 02"</b> <b>42° 14' 12"</b></p> <p>Close Star: <b>SAO-50456</b> Catalog Objects: <a href="#">NGC-7027</a> Imaging Window: <b>07:17 – 11:49</b> Transit: <b>08:02</b>   <b>45°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

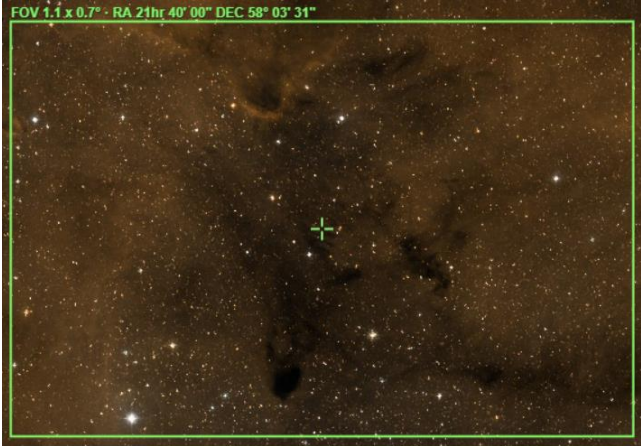


# Prospective Imaging Objects – October 14 2023

<p><b>NGC-7048</b> (PK 88-1.1) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>21h 14' 15"</b> <b>46° 17' 21"</b></p> <p>Close Star: <b>SAO-49941</b> (Deneb) Catalog Objects: <a href="#">NGC-7048</a> Imaging Window: <b>07:17 – 11:59</b> Transit: <b>08:10   77°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Pegasus Cluster</b> (M-15) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Cepheus</b> Coordinates: <b>21h 29' 58"</b> <b>12° 10' 03"</b></p> <p>Close Star: <b>SAO-127029</b> (Enif) Catalog Objects: <a href="#">M-15</a>/<a href="#">NGC-7078</a> Imaging Window: <b>07:17 – 11:19</b> Transit: <b>08:25   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-39</b> (NGC-7092) Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>21h 31' 56"</b> <b>48° 26' 46"</b></p> <p>Close Star: <b>SAO-49941</b> (Deneb) Catalog Objects: <a href="#">M-39</a>/<a href="#">NGC-7092</a> Imaging Window: <b>07:17 – 12:17</b> Transit: <b>08:27   75°</b></p>	<p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b></b></p> 

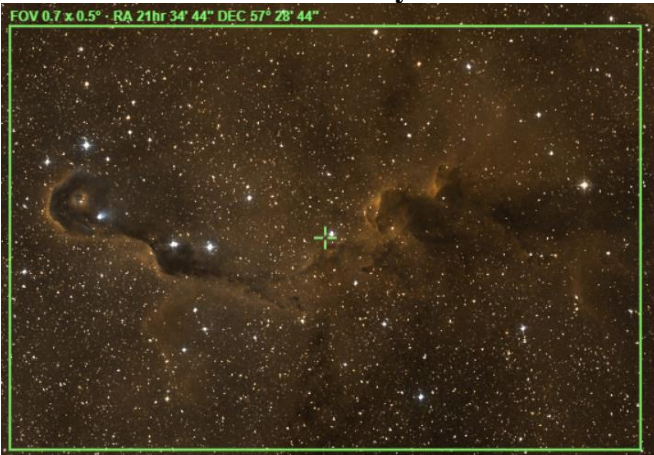
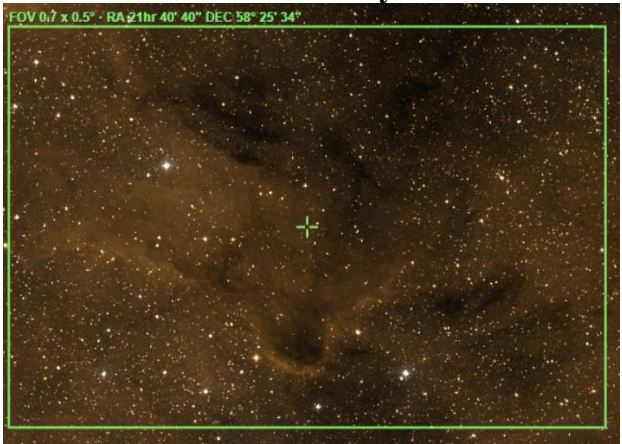

# Prospective Imaging Objects – October 14 2023

<p><b>M-2 (NGC-7089)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Aquarius</b> Coordinates: <b>21h 33' 27"</b> <b>00° 49' 22"</b></p> <p>Close Star: <b>SAO-127029</b> (Enif) Catalog Objects: <a href="#">M-2</a>/NGC-7089 Imaging Window: <b>07:17 – 10:33</b> Transit: <b>08:29</b>   <b>56°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-7094</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Pegasus</b> Coordinates: <b>21h 36' 53"</b> <b>12° 47' 22"</b></p> <p>Close Star: <b>SAO-127029</b> (Enif) Catalog Objects: <a href="#">NGC-7094</a> Imaging Window: <b>07:17 – 11:28</b> Transit: <b>08:32</b>   <b>69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Elephant Trunk (IC-1396)</b> Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cepheus</b> Coordinates: <b>21h 39' 58"</b> <b>57° 33' 34"</b></p> <p>Close Star: <b>SAO-19302</b> (Alderamin) Catalog Objects: <a href="#">IC-1396</a>/Sh2-131 Imaging Window: <b>07:17 – 12:22</b> Transit: <b>08:34</b>   <b>66°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Elephant Trunk Nebula (IC-1396) Constellation: Cepheus</p> <p style="font-size: x-small; text-align: right;">Filter: HyperStar v4 Exposure: 42 Config: C11 HyperStar   ZWO6200MC   HS Exposure Info: 24000000 frames   Gain: 12000   Offset: 100</p>



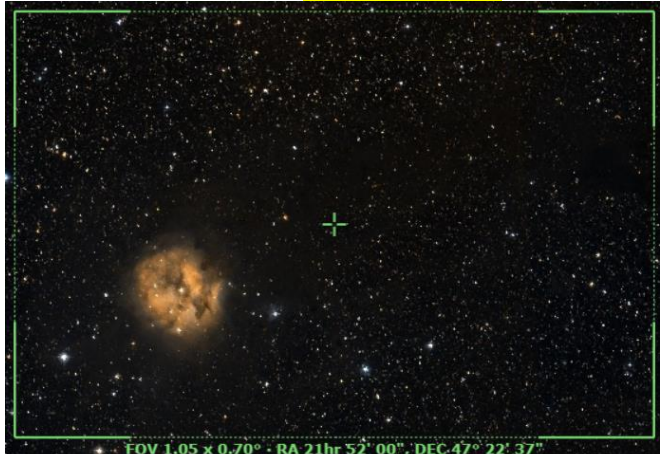
# Prospective Imaging Objects – October 14 2023

<p><b>Elephant Trunk (IC-1396)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright &amp; Dark Nebula</b></p> <p>Constellation: <b>Cepheus</b>            Coordinates:  <b>21h 40' 00"</b>  <b>58° 03' 31"</b></p> <p>Close Star: <b>SAO-19302</b> (Alderamin)            Catalog Objects: <a href="#">IC-1396</a>/Sh2-131            Imaging Window: <b>07:17 – 12:22</b>            Transit: <b>08:34   66°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Elephant Trunk (IC-1396)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cepheus</b>            Coordinates:  <b>21h 34' 39"</b>  <b>57° 29' 02"</b></p> <p>Close Star: <b>SAO-19302</b> (Alderamin)            Catalog Objects: <a href="#">IC-1396</a>/Sh2-131            Imaging Window: <b>07:17 – 12:22</b>            Transit: <b>08:34   66°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Elephant Trunk (IC-1396)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright &amp; Dark Nebula</b></p> <p>Constellation: <b>Cepheus</b>            Coordinates:  <b>21h 41' 50"</b>  <b>56° 43' 48"</b></p> <p>Close Star: <b>SAO-19302</b> (Alderamin)            Catalog Objects: <a href="#">IC-1396</a>/Sh2-131            Imaging Window: <b>07:17 – 12:22</b>            Transit: <b>08:34   66°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – October 14 2023




<p><b>Elephant Trunk (IC-1396)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright &amp; Dark Nebula</b></p> <p>Constellation: <b>Cepheus</b> Coordinates: <b>21h 34' 44"</b> <b>57° 28' 44"</b></p> <p>Close Star: <b>SAO-19302</b> (Alderamin) Catalog Objects: <a href="#">IC-1396</a>/Sh2-131 Imaging Window: <b>07:17 – 12:22</b> Transit: <b>08:34   66°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Elephant Trunk (IC-1396)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright &amp; Dark Nebula</b></p> <p>Constellation: <b>Cepheus</b> Coordinates: <b>21h 40' 40"</b> <b>58° 25' 34"</b></p> <p>Close Star: <b>SAO-19302</b> (Alderamin) Catalog Objects: <a href="#">IC-1396</a>/Sh2-131 Imaging Window: <b>07:17 – 12:22</b> Transit: <b>08:34   66°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-30 (NGC-7099)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Capricornus</b> Coordinates: <b>21h 40' 22"</b> <b>-23° 10' 43"</b></p> <p>Close Star: <b>SAO-164644</b> (Scheddi) Catalog Objects: <a href="#">M-30</a>/NGC-7099 Imaging Window: <b>*07:17 – 09:58</b> Transit: <b>08:36   34°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – October 14 2023



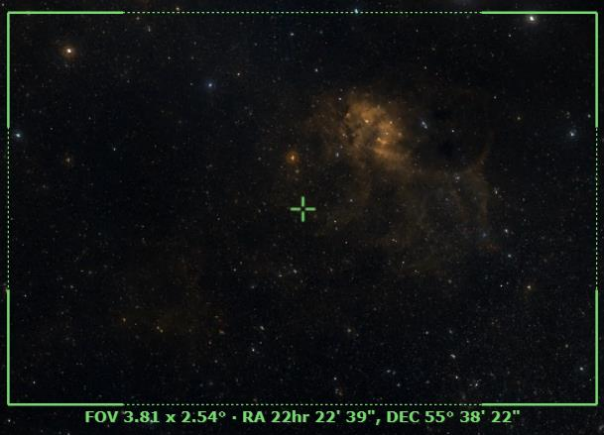
<p><b>NGC 7139</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Cepheus</b> Coordinates: <b>21h 46' 07"</b> <b>+63° 47' 54"</b></p> <p>Close Star: <b>SAO-019302</b> (Alderamin) Catalog Objects: <a href="#">NGC-7139</a> Imaging Window: <b>07:17 – 12:19</b> Transit: <b>08:41   60°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></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 = 67deg E of N, Pixel scale = 0.277 arcsec/pixel, FL = 2000mm James Yoder   Date: 2022-12-19   Location: Chandler, AZ   Config:  C-11 HD-PRF Track Star ZWO6200MC  Exposure Info:   27 Bins@2min   Gain: 100   OBSet: 58  </p>
<p><b>Dark Cocoon</b> (B-168, IC 5146) Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Bright &amp; Dark Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>21h 49' 08"</b> <b>47° 28' 16"</b></p> <p>Close Star: <b>SAO-5105</b> (Rho Cygni) Catalog Objects: <a href="#">B-168</a>, IC-5146 Imaging Window: <b>07:17 – 12:34</b> Transit: <b>08:44   76°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></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><b>Cocoon Nebula</b> (IC-5146) Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>21h 52' 00"</b> <b>47° 22' 37"</b></p> <p>Close Star: <b>SAO-5105</b> (Rho Cygni) Catalog Objects: <a href="#">IC-5146</a> Imaging Window: <b>07:17 – 12:39</b> Transit: <b>08:49   76°</b></p>	<p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b></b></p>  <p style="font-size: small; text-align: center;">FOV 1.05 x 0.70° - RA 21hr 52' 00", DEC 47° 22' 37"</p>



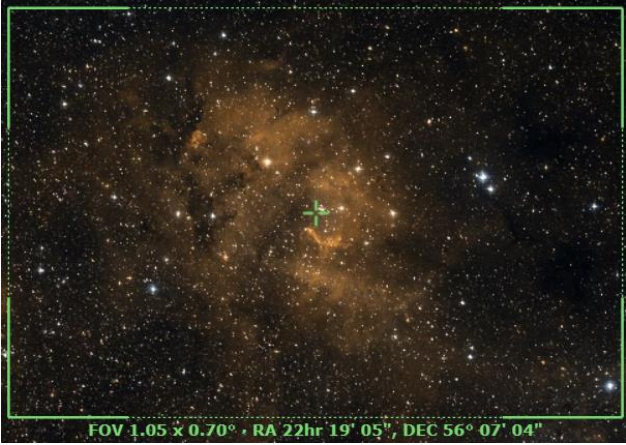
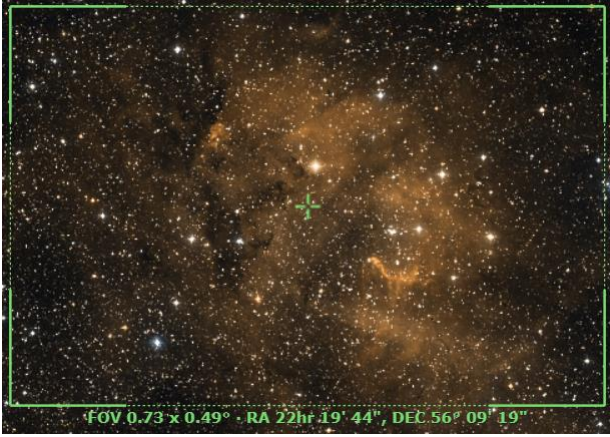
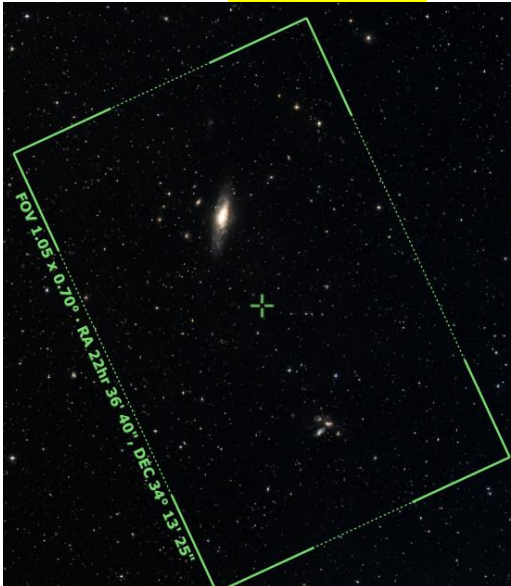
# Prospective Imaging Objects – October 14 2023

<p><b>Cocoon Nebula (IC-5146)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b>            Coordinates:  <b>21h 53' 24"</b>  <b>47° 16' 00"</b></p> <p>Close Star: <b>SAO-5105</b> (Rho Cygni)            Catalog Objects: <a href="#">IC-5146</a>            Imaging Window: <b>07:17 – 12:39</b>            Transit: <b>08:49   76°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">IC-5146, Cocoon Nebula James Yoder 2014, 11/21</p>
<p><b>Dark Shark (LDN-1235)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright &amp; Dark Nebula</b></p> <p>Constellation: <b>Cepheus</b>            Coordinates:  <b>22h 11' 49"</b>  <b>73° 12' 16"</b></p> <p>Close Star: <b>SAO-20268</b> (Iota Cephei)            Catalog Objects: <a href="#">LDN-1235</a>            Imaging Window: <b>08:21 – 01:47</b>            Transit: <b>11:04   50°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small; text-align: center;">FOV 1.05 x 0.70° · RA 22hr 11' 49", DEC 73° 12' 16"</p>
<p><b>Helix Nebula (NGC-7293)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary nebula</b></p> <p>Constellation: <b>Aquarius</b>            Coordinates:  <b>22h 29' 39"</b>  <b>-20° 48' 36"</b></p> <p>Close Star: <b>SAO-164644</b> (Delta Cap)            Catalog Objects: <a href="#">NGC-7293</a>            Imaging Window: <b>*07:39 – 11:15</b>            Transit: <b>09:25   36°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small;">Helix Nebula (NGC-7293)            Constellation: Aquarius            James Yoder 2019, 09/21            Location: Chandler, AZ            Config:  C11 LF Corrector Astronomik CLS-CCD SOH128c             Exposure Info:  180ms@5min Gain: 3200 Offset: 180 </p>

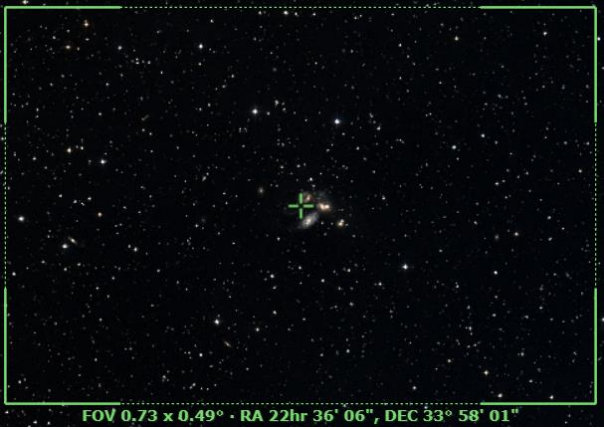


# Prospective Imaging Objects – October 14 2023

<p><b>Wolf's Cave</b> (VdB-152)            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright &amp; Dark Nebula</b></p> <p>Constellation: <b>Cepheus</b>            Coordinates:  <b>22h 17' 03"</b>  <b>70° 21' 54"</b></p> <p>Close Object: Cave Nebula (<a href="#">SH2-155</a>)            Close Star: SAO-20268 (Iota Cephei)            Imaging Window: <b>07:17 – 01:32</b>            Transit: <b>09:52   50°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Wolf's Cave (VdB 152, LBN 531)            Constellation: Cepheus            RA = 22h 17m 03.56s DEC = 70deg 21' 54.00" Size = 5.24 x 2.18 deg. Pixel scale = 2.37 arcsec/pixel</p> <p style="font-size: x-small; text-align: right;">Image Name: 2023-08-22            Location: Cheshire, CT            Config: C11   HyperStar   Baader Skyliner   ZWO152c            Exposure Info: 311 Images/Frame; Gain: 1000; Offset: 140</p>
<p><b>Wolf's Cave</b> (VdB-152)            Config:  C11-HD FR ZWO6200MC </p> <p>Constellation: <b>Cepheus</b>            Coordinates:  <b>22h 13' 42"</b>  <b>70° 30' 32"</b>  <b>90° Rotation</b></p> <p>Close Object: Cave Nebula (<a href="#">SH2-155</a>)            -44min differential            Close Star: SAO-20268 (Iota Cephei)            Catalog Objects: <a href="#">B-168</a>, IC-5146</p> <p>Imaging Window: <b>07:17 – 01:32</b>            Transit: <b>09:52   50°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: x-small; text-align: center;">FOV 1.05 x 0.70° · RA 22hr 13' 42" DEC 70° 30' 32"</p>
<p><b>SH2-132</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cepheus</b>            Coordinates:  <b>22h 22' 39"</b>  <b>55° 38' 22"</b></p> <p>Close Star: SAO-20268 (Iota Cephei)            Catalog Objects: <a href="#">SH2-132</a>            Imaging Window: <b>07:17 – 01:03</b>            Transit: <b>09:14   67°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: x-small; text-align: center;">FOV 3.81 x 2.54° · RA 22hr 22' 39" DEC 55° 38' 22"</p>




# Prospective Imaging Objects – October 14 2023

<p><a href="#">SH2-132</a>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cepheus</b>            Coordinates:  <b>22h 19' 05"</b>  <b>56° 07' 04"</b></p> <p>Close Star: <b>SAO-20268</b> (Iota Cephei)            Catalog Objects: <a href="#">SH2-132</a>            Imaging Window: <b>07:17 – 01:03</b>            Transit: <b>09:14   67°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="text-align: center;">FOV 1.05 x 0.70° · RA 22hr 19' 05", DEC 56° 07' 04"</p>
<p><a href="#">SH2-132</a>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cepheus</b>            Coordinates:  <b>22h 19' 44"</b>  <b>56° 09' 19"</b></p> <p>Close Star: <b>SAO-20268</b> (Iota Cephei)            Catalog Objects: <a href="#">SH2-132</a>            Imaging Window: <b>07:17 – 01:03</b>            Transit: <b>09:14   67°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;">FOV 0.73 x 0.49° · RA 22hr 19' 44", DEC 56° 09' 19"</p>
<p><a href="#">Stephan's Quintet &amp; NGC 7331</a>            (NGC 7317, 7331)            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Pegasus</b>            Coordinates:  <b>22h 36' 40"</b>  <b>34° 13' 25"</b>  <b>Camera Rotation = 115° East (-245)</b></p> <p>Close Star: <b>SAO-72191</b> (1 Lacertae)            Catalog Objects: <a href="#">NGC7317</a>, <a href="#">NGC7331</a></p> <p>Imaging Window: <b>07:17 – 01:09</b>            Transit: <b>09:31   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="text-align: center;">FOV 1.05 x 0.70° · RA 22hr 36' 40", DEC 34° 13' 25"</p>

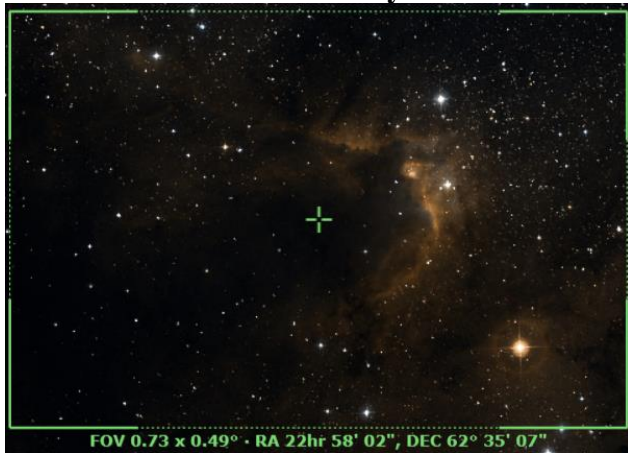


# Prospective Imaging Objects – October 14 2023

<p><b>Stephan's Quintet</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Pegasus</b>            Coordinates:  <b>22h 36' 06"</b>  <b>33° 58' 01"</b></p> <p>Close Star: <b>SAO-72191</b> (1 Lacertae)            Catalog Objects: <a href="#">NGC7317</a>            Imaging Window: <b>07:17 – 01:09</b>            Transit: <b>09:31   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-7331 Group</b> (NGC-7331)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Pegasus</b>            Coordinates:  <b>22h 37' 15"</b>  <b>34° 24' 51"</b></p> <p>Close Star: <b>SAO-72191</b> (1 Lacertae)            Catalog Objects: <a href="#">NGC-7331</a>            Imaging Window: <b>07:17 – 01:11</b>            Transit: <b>09:32   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Wizard Nebula</b> (SH 2-142)</p> <p>Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Cepheus</b>            Coordinates:  <b>22h 47' 26"</b>  <b>58° 03' 03"</b></p> <p>Close Star: <b>SAO-20268</b> (Iota Cephei)            Catalog Objects: <a href="#">SH2-142</a>            Imaging Window: <b>07:17 – 01:28</b>            Transit: <b>09:40   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b></b></p> 

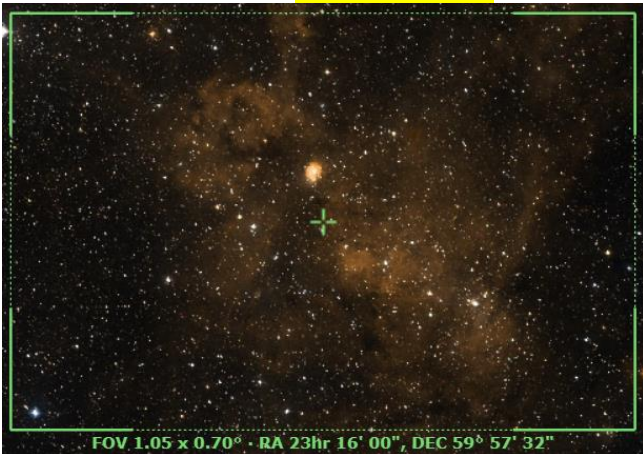


# Prospective Imaging Objects – October 14 2023

<p><a href="#">Wizard Nebula (SH 2-142)</a></p> <p>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Cepheus</b></p> <p>Coordinates:  <b>22h 47' 26"</b>  <b>58° 03' 03"</b></p> <p>Close Star: <b>SAO-20268</b> (Iota Cephei)</p> <p>Catalog Objects: <a href="#">SH2-142</a></p> <p>Imaging Window: <b>07:17 – 01:28</b></p> <p>Transit: <b>09:40   89°</b></p>	<p><b>C-11 HD: Primary Focus</b></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: 8.2deg E of N   Pixel scale: 0.441 arcsec/pixel   F1-200mm  James Votaw (Heavily) 2013 F1.0, 2009 F1.0, Lorraine S. Baader, AZ  © 2013 C-11 HD Astronomy, LLC (C-11 HD)  Exposure: 100   3000   1000   100</small></p>
<p><a href="#">Cave Nebula (SH2-155)</a></p> <p>Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright &amp; Dark Nebula</b></p> <p>Constellation: <b>Cepheus</b></p> <p>Coordinates:  <b>23h 00' 57"</b>  <b>62° 04' 09"</b></p> <p>Close Star: <b>SAO-20268</b> (Iota Cephei)</p> <p>Catalog Objects: <a href="#">SH2-155</a></p> <p>Imaging Window: <b>07:17 – 01:32</b></p> <p>Transit: <b>09:52   61°</b></p>	<p><b>C-11 HD: HyperStar v4</b></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 (Heavily) 2013 F1.0, 2009 F1.0, Lorraine S. Baader, AZ  © 2013 C-11 HD Astronomy, LLC (C-11 HD)  Exposure: 100   3000   1000   100</small></p>
<p><a href="#">Cave Nebula (SH2-155)</a></p> <p>Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright &amp; Dark Nebula</b></p> <p>Constellation: <b>Cepheus</b></p> <p>Coordinates:  <b>22h 56' 57"</b>  <b>62° 31' 33"</b></p> <p>Close Star: <b>SAO-20268</b> (Iota Cephei)</p> <p>Catalog Objects: <a href="#">SH2-155</a></p> <p>Imaging Window: <b>07:17 – 01:32</b></p> <p>Transit: <b>09:52   61°</b></p>	<p><b>C-11 HD: Focal Reducer</b></p>  <p><small>FOV 1.05 x 0.70° · RA 22hr 56' 57", DEC 62° 31' 33"</small></p>


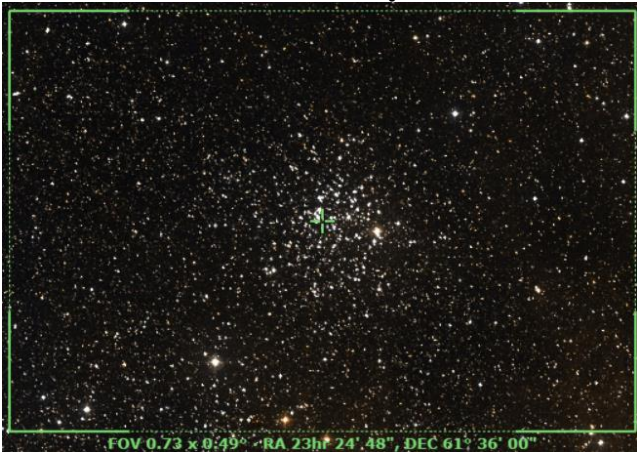

# Prospective Imaging Objects – October 14 2023

<p><b>Cave Nebula (SH2-155)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright &amp; Dark Nebula</b></p> <p>Constellation: <b>Cepheus</b>            Coordinates:  <b>22h 56' 57"</b>  <b>62° 31' 33"</b></p> <p>Close Star: <b>SAO-20268</b> (Iota Cephei)            Catalog Objects: <a href="#">SH2-155</a>            Imaging Window: <b>07:17 – 01:32</b>            Transit: <b>09:52   61°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center; font-size: small;">FOV 0.73 x 0.49° • RA 22hr 58' 02", DEC 62° 35' 07"</p>
<p><b>NGC-7479 (PGC-70419)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Pegasus</b>            Coordinates:  <b>23h 04' 58"</b>  <b>12° 18' 37"</b></p> <p>Close Star: <b>SAO-127340</b> (Baham)            Catalog Objects: <a href="#">NGC-7479</a>            Imaging Window: <b>07:17 – 12:54</b>            Transit: <b>10:00   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center; font-size: x-small;">NGC-7479            Constellation: Pegasus            I.R.A. = 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=2000mm   Exposure Info: 160frames@3min   Gain: 3200   OIBSet: 180  </p>
<p><b>Lobster Claw and Bubble Nebula (SH2-157)</b>            Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Cassiopeia</b>            Coordinates:  <b>23h 18' 25.8"</b>  <b>60° 31' 17.8"</b></p> <p>Close Star: <b>SAO-21133</b> (Caph)            Catalog Objects: <a href="#">SH2-157</a>, <a href="#">NGC-7635</a>            Imaging Window: <b>07:17 – 01:56</b>            Transit: <b>10:11   63°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="text-align: center; font-size: x-small;">Lobster Claw and Bubble Nebula(NGC-7635)            Constellation: Cassiopeia            I.R.A. = 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   Exposure Info: 260frames@3min   Gain: 3200   OIBSet: 180  </p>

# Prospective Imaging Objects – October 14 2023

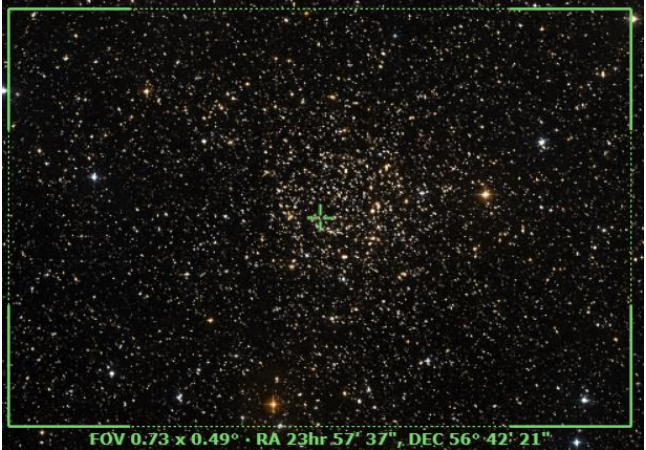

<p><b>Lobster Claw</b> (SH2-157)            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Cassiopeia</b>            Coordinates:  <b>23h 16' 00"</b>  <b>59° 57' 32"</b></p> <p>Close Star: <b>SAO-21133</b> (Caph)            Catalog Objects: <a href="#">SH2-157</a>            Imaging Window: <b>07:17 – 01:56</b>            Transit: <b>10:11   63°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Bubble Nebula</b> (NGC-7635)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright &amp; Dark Nebula</b></p> <p>Constellation: <b>Cepheus</b>            Coordinates:  <b>23h 20' 12"</b>  <b>61° 11' 00"</b></p> <p>Close Star: <b>SAO-21133</b> (Caph)            Catalog Objects: <a href="#">NGC-7635</a>, SH2-162            Imaging Window: <b>07:17 – 01:58</b>            Transit: <b>10:15   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Pegasus Cluster</b> (NGC-7619)            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Cluster of Galaxies</b></p> <p>Constellation: <b>Pegasus</b>            Coordinates:  <b>23h 20' 13"</b>  <b>08° 11' 08"</b></p> <p>Close Star: <b>SAO-128085</b> (g Piscium)            Catalog Objects: <a href="#">NGC-7619</a>            Imaging Window: <b>07:34 – 12:57</b>            Transit: <b>10:15   65°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 

# Prospective Imaging Objects – October 14 2023

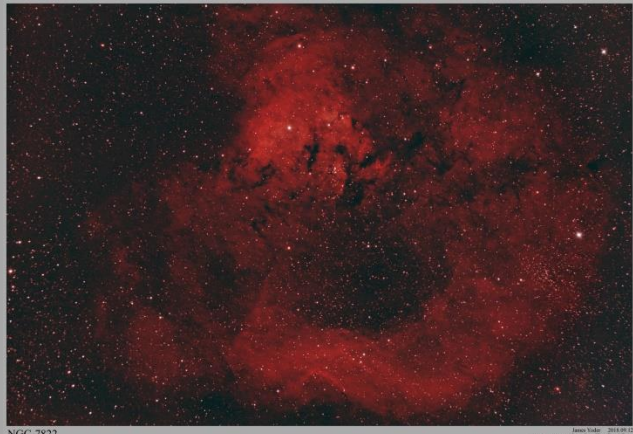
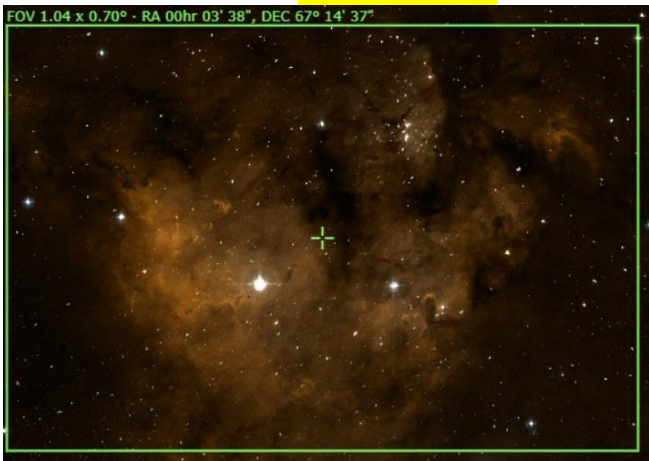
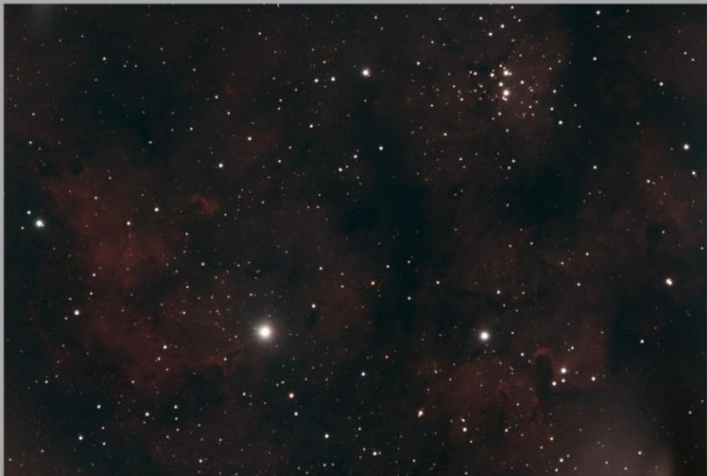
<p><b>Pegasus Cluster</b> (NGC-7619) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Cluster of Galaxies</b></p> <p>Constellation: <b>Pegasus</b> Coordinates: <b>23h 20' 13"</b> <b>08° 10' 57"</b></p> <p>Close Star: <b>SAO-128085</b> (g Piscium) Catalog Objects: <a href="#">NGC-7619</a> Imaging Window: <b>07:34 – 12:57</b> Transit: <b>10:15   65°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;">FOV 0.73 x 0.49° · RA 23hr 20' 13", DEC 08° 10' 57"</p>
<p><b>M-52</b> (NGC-7654) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Cassiopeia</b> Coordinates: <b>23h 24' 48"</b> <b>61° 36' 00"</b></p> <p>Close Star: <b>SAO-21133</b> (Caph) Catalog Objects: <a href="#">M-52</a> Imaging Window: <b>07:17 – 02:02</b> Transit: <b>10:20   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;">FOV 0.73 x 0.49° · RA 23hr 24' 48", DEC 61° 36' 00"</p>
<p><b>Blue Match Nebula</b> (SH2-155) Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Reflection Nebula</b></p> <p>Constellation: <b>Andromeda</b> Coordinates: <b>23h 39' 24"</b> <b>48° 51' 37"</b> Nearby: <a href="#">NGC-7686</a> Close Star: <b>SAO-73765</b> (Alpheratz) Catalog Objects: VdB 158/ LBN 534 Imaging Window: <b>07:17 – 02:15</b> Transit: <b>10:25   81°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="text-align: center;">FOV 3.81 x 2.54° · RA 23hr 39' 35", DEC 48° 54' 43"</p>





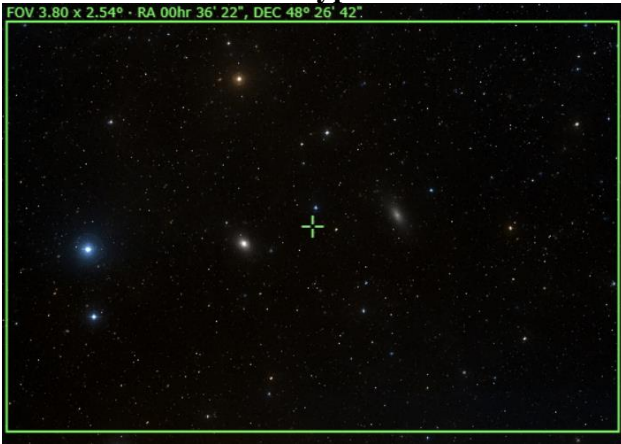
# Prospective Imaging Objects – October 14 2023

<p><b>Caroline's Rose</b> (NGC-7789)          Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Cassiopeia</b>          Coordinates:  <b>23h 57' 37"</b>  <b>56° 42' 21"</b></p> <p>Close Star: <b>SAO-21607</b> (Shedar)          Catalog Objects: <a href="#">NGC-7789</a>          Imaging Window: <b>07:17 – 02:41</b>          Transit: <b>10:52   65°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-7822</b> (Ced-214)          Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Emission Nebula</b>          Constellation: <b>Cepheus</b></p> <p>Coordinates:          Frame 01          RA: <b>00hr 03' 42"</b> DEC: <b>67° 41' 45"</b>          Frame 02          RA: <b>00hr 03' 42"</b> DEC: <b>65° 35' 15"</b></p> <p>Close Star: <b>SAO-10818</b>          Catalog Objects: Ced 214, <a href="#">NGC 7822</a>, SH2-171</p> <p>Imaging Window: <b>07:32 – 02:22</b>          Transit: <b>10:57   56°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4 Composite!</b></p> 



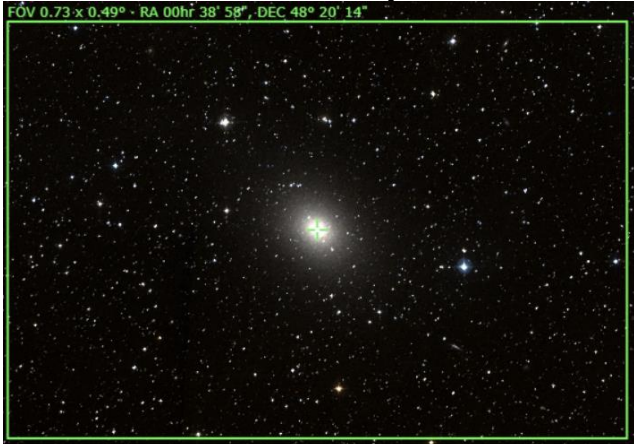
# Prospective Imaging Objects – October 14 2023

<p><b>NGC-7822</b> (CED-214)            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Cepheus</b>            Coordinates:  <b>00h 01' 27"</b>  <b>67° 28' 37"</b></p> <p>Close Star: SAO-20268            Catalog Objects: <a href="#">NGC-7822</a>/CED-214            Imaging Window: <b>07:32 – 02:22</b>            Transit: <b>10:57   56°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">NGC-7822 Constellation: Cepheus</p> <p style="font-size: x-small; text-align: right;">Image Name: 2023_08_12 Location: Chandler, AZ Config: C-11 HD HyperStar v4   ZWO6200MC Exposure Info: 25 frames @ 10s   Gain: 1300   Offset: 170</p>
<p><b>NGC-7822</b> (CED-214)            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Cepheus</b>            Coordinates:  <b>00h 03' 38"</b>  <b>67° 14' 37"</b></p> <p>Close Star: SAO-20268            Catalog Objects: <a href="#">NGC-7822</a>/CED-214            Imaging Window: <b>07:32 – 02:22</b>            Transit: <b>10:57   56°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: x-small; color: green;">FOV 1.04 x 0.70° - RA 00hr 03' 38", DEC 67° 14' 37"</p>
<p><b>NGC-7822</b> (CED-214)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Emission Nebula</b>            Constellation: <b>Cepheus</b>            Coordinates:  <b>00h 01' 56"</b>  <b>67° 23' 05"</b></p> <p>Close Star: SAO-10818            Catalog Objects: Ced 214, <a href="#">NGC 7822</a>, SH2-171            Imaging Window: <b>07:32 – 02:22</b>            Transit: <b>10:57   56°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small;">Bright Nebula NGC-7822 (Ced 214) Constellation: Cepheus</p> <p style="font-size: x-small; text-align: right;">Image Name: 2023_08_14 Location: Chandler, AZ Config: C-11 HD Astromaster 63   ZWO6200MC Exposure Info: 25 frames @ 10s   Gain: 1300   Offset: 170</p>



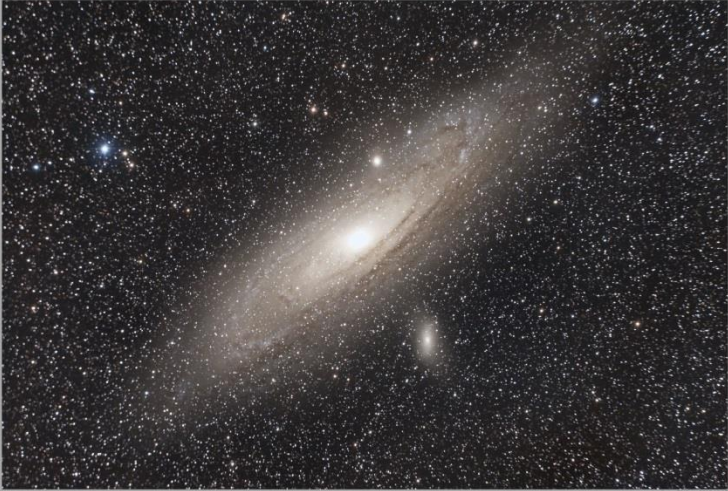
# Prospective Imaging Objects – October 14 2023

<p><b>Bow-Tie Nebula (NGC-40)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Cepheus</b> Coordinates: <b>00h 13' 01"</b> <b>72° 31' 21"</b></p> <p>Close Star: <b>SAO-20268</b> Catalog Objects: <a href="#">NGC-40</a> Imaging Window: <b>08:16 – 02:00</b> Transit: <b>11:08   51°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Andromeda Galaxy Group</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Cluster of dim galaxies</b> Peak:</p> <p>Constellation: <b>Andromeda</b> Coordinates: <b>00h 17' 58"</b> <b>30° 03' 03"</b></p> <p>Close Star: <b>SAO-73765 (Alpheratz)</b> Catalog Objects: <a href="#">NGC 67-72</a> et. El.</p> <p>Imaging Window: <b>07:40 – 02:46</b> Transit: <b>11:13   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-147 &amp; NGC-185</b> Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxy Pair</b></p> <p>Constellation: <b>Cassiopeia</b> Coordinates: <b>00h 36' 22"</b> <b>48° 26' 42"</b></p> <p>Close Star: <b>SAO-21609 (Shedar)</b> Catalog Objects: <a href="#">NGC-147</a>, <a href="#">NGC-185</a> Imaging Window: <b>07:38 – 03:18</b> Transit: <b>11:28   75°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 

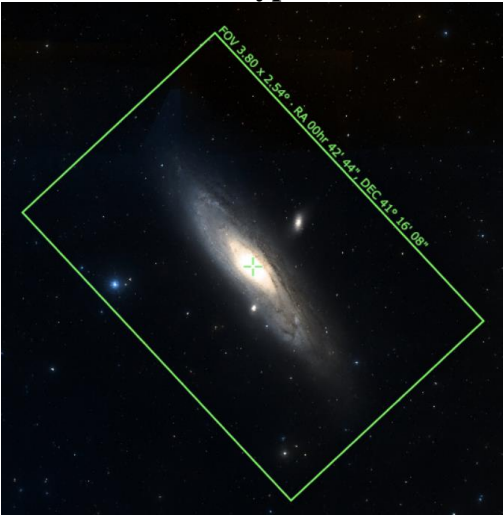

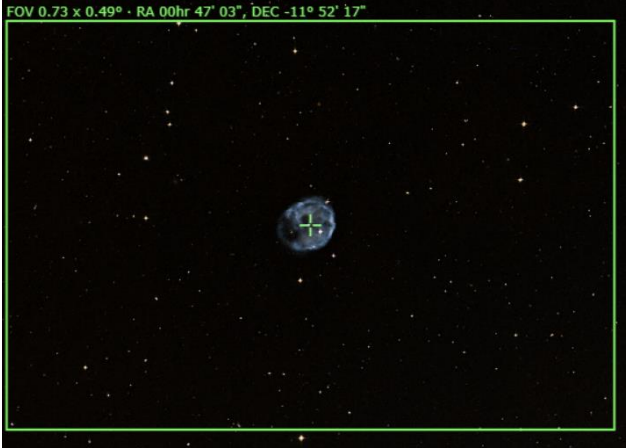
# Prospective Imaging Objects – October 14 2023

<p><b>NGC-147 &amp; NGC-185</b>            Config: C11-HD   FR   ZWO6200MC</p> <p>Type: <b>Galaxy Pair</b></p> <p>Constellation: <b>Cassiopeia</b>            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: <a href="#">NGC-147</a>, NGC-185            Imaging Window: 07:38 – 03:18            Transit: 11:28   75°</p>	<p>C-11 HD: <b>Focal Reducer Composite!</b></p>  <p><small>Dwarf Galaxies NGC-185, NGC-147            Constellation: Cassiopeia            RA = 00h 33m 00s DEC = 48deg 25' 44.00" Size = 12.1 x 17.2 arcmin Orientation: 0.84deg E of N Pixel scale = 0.87 arcsec/pixel © 2023</small></p>
<p><b>NGC-147</b>            Config:  ZWO6200MC </p> <p>Type: <b>Galaxy</b>            Peak:            Constellation: <b>Cassiopeia</b>            Coordinates:  <b>00h 33' 07.245"</b>  <b>48° 30' 18.030"</b></p> <p>Close Star: SAO-37375            Catalog Objects: <a href="#">NGC-147</a></p> <p>Imaging Window: 07:38 – 03:18            Transit: 11:28   75°</p>	<p><b>Primary Focus</b></p>  <p><small>Dwarf Galaxy NGC-147            Constellation: Cassiopeia            RA = 00h 33m 07.245s DEC = 48deg 30' 18.030" Size = 49.7 x 33.3 arcmin Pixel scale = 0.579 arcsec/pixel © 2023</small></p>
<p><b>NGC-185</b>            Config: C11-HD   ZWO6200MC</p> <p>Type: <b>Dwarf Spheroidal Galaxy</b></p> <p>Constellation: <b>Cassiopeia</b>            Coordinates:  <b>00h 38' 58"</b>  <b>48° 20' 14"</b></p> <p>Close Star: SAO-21609 (Shedar)            Catalog Objects: <a href="#">NGC-147</a>            Imaging Window: 09:32 – 04:48            Transit: 01:22   75°</p>	<p><b>C-11 HD: Primary Focus</b></p>  <p><small>F&amp;V 0.73 x 0.49° - RA 00hr 38' 58", DEC 48° 20' 14" © 2023</small></p>




# Prospective Imaging Objects – October 14 2023

<p><b>M-110</b> Config: C11-HD   ZWO6200MC</p> <p>Type: <b>Elliptical Galaxy</b></p> <p>Constellation: <b>Andromeda</b> Coordinates: <b>00h 40' 22"</b> <b>41° 41' 07"</b></p> <p>Close Star: <b>SAO-73765 (Sirrah)</b> Catalog Objects: <a href="#">M-110</a> Imaging Window: <b>07:49 – 03:22</b> Transit: <b>11:35   82°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></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 27.2 arcsec / Orientation: 0 Mag. of N / Pixel scale = 0.466 arcsecond / F1-C11202mm) Image taken: October 2023 at 11:35:00 UT, Location: Chandler, AZ Config: C-11 HD, Filter: Blue, Region: QHY120c Exposure info: 4000000000, Gain: 2000, Offset: 100</p>
<p><b>M-32</b> Config: C11-HD   ZWO6200MC</p> <p>Type: <b>Elliptical Galaxy</b></p> <p>Constellation: <b>Andromeda</b> Coordinates: <b>00h 42' 42"</b> <b>40° 51' 57"</b></p> <p>Close Star: <b>SAO-73765 (Sirrah)</b> Catalog Objects: <a href="#">M-32</a> Imaging Window: <b>07:52 – 03:22</b> Transit: <b>11:37   83°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">FOV 0.73 x 0.49° - RA 00hr 42m 42s, DEC 40° 51' 57"</p>
<p><b>Andromeda Galaxy (M 31)</b> Config:  C11 HS ZWO6200MCc </p> <p>Type: <b>Galaxy</b> Peak: <b>Oct 1</b> Constellation: <b>Andromeda</b> Coordinates: <b>00h 43' 03.089"</b> <b>41° 18' 37.05"</b></p> <p>Close Star: <b>SAO-54281</b> Catalog Objects: <a href="#">M-31</a>, M-32, M-110, NGC-224, NGC-206</p> <p>Imaging Window: <b>07:51 – 03:24</b> Transit: <b>11:37   82°</b></p>	<p style="text-align: center;"><b>Hyperstar</b></p>  <p style="font-size: small;">The Great Andromeda Galaxy (M-31 &amp; M32) Constellation: Andromeda Image taken: 2023-10-08 Location: Mountain View, California, AZ Config: C-11   HyperStar   QHY120c Exposure info: 4000000000, Gain: 1000, Offset: 100</p>

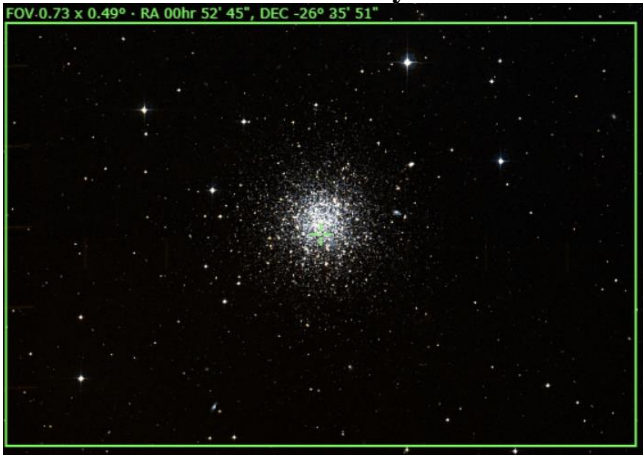


# Prospective Imaging Objects – October 14 2023

<p><b>M-31, M-32</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Andromeda Galaxy</b></p> <p>Constellation: <b>Andromeda</b>            Coordinates:  <b>00h 42' 44"</b>  <b>41° 16' 08"</b>            Angle: <b>133° East</b></p> <p>Close Star: SAO-73765 (Sirrah)            Catalog Objects: <a href="#">M-31</a>, M-32            Imaging Window: <b>07:51 – 03:24</b>            Transit: <b>11:37   82°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>NGC246, NGC255, PGC 2689</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Planetary Nebula, 2 Galaxies</b></p> <p>Constellation: <b>Cetus</b>            Coordinates:  <b>00h 47' 00"</b>  <b>-11° 40' 40"</b></p> <p>Close Star: SAO-147420 (Diphda)            Catalog Objects: <a href="#">NGC-246</a>            Imaging Window: <b>*08:57 – 02:23</b>            Transit: <b>11:42   45°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small;">Skull Nebula (NGC-246) and Galaxy NGC-255  <small>Imaging: Cetus the Whale            RA = 00h 47m 00s, DEC = -11deg 40' 51.1\"</small></p>
<p><b>Skull Nebula (NGC-246)</b>            Config: C11-HD   ZWO6200MC</p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Cetus</b>            Coordinates:  <b>00h 47' 03"</b>  <b>-11° 52' 17"</b></p> <p>Close Star: SAO-147420 (Diphda)            Catalog Objects: <a href="#">NGC-246</a>            Imaging Window: <b>*08:57 – 02:23</b>            Transit: <b>11:42   45°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – October 14 2023


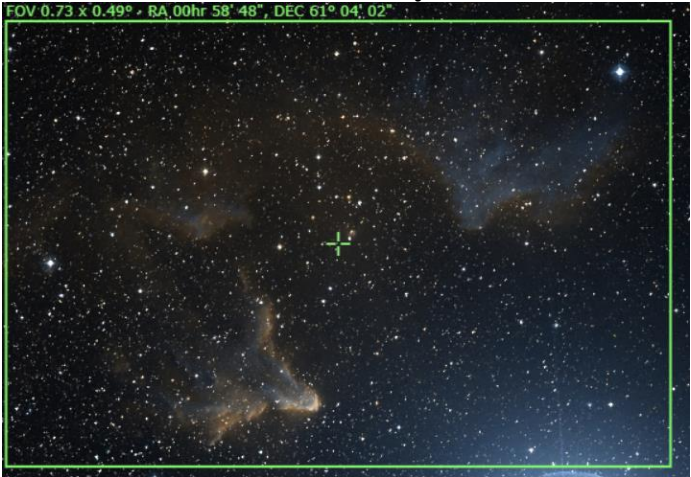
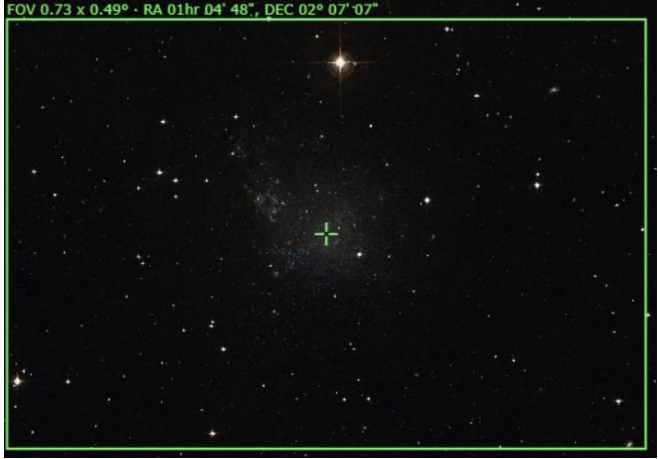
<p><b>Needle's Eye Galaxy (NGC 247)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b>            Peak:            Constellation: <b>Cetus</b>            Coordinates:  <b>00hr 47' 12"</b>  <b>-20° 44' 38"</b></p> <p>Close Star: SAO-147420            Catalog Objects: <a href="#">NGC 247</a></p> <p>Imaging Window: *09:08 – 02:12            Transit: 11:42   36°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Needle's Eye Galaxy (NGC-247)            Constellation: Cetus            RA = 00h 47m 12s, DEC = -20deg 44' 38"   Size = 41.1 x 27.7 pixels   Orientation: 6.6Mag E of N   Pixel scale = 0.448 arcsec/pixel   FL=200mm</p> <p style="font-size: x-small; text-align: right;">James Yoder   Date(s) 2023/04/11, 2023/04/12   Location: Chandler, AZ              Config:  C-11 HD Shadur Ringlow   QHY128K              Exposure Info: 1000ms/Frame   Gain: 3200   Offset: 100</p>
<p><b>NGC-288, NGC-253</b>            Config: C11-HD   HS              ZWO6200MC</p> <p>Type: <b>Globular and Galaxy</b></p> <p>Constellation: <b>Sculptor</b>            Coordinates:  <b>00h 50' 03"</b>  <b>-25° 54' 37"</b></p> <p>Close Star: SAO-147420 (Diphda)            Catalog Objects: <a href="#">NGC-288</a>, <a href="#">NGC-253</a>            Imaging Window: *10:03 – 01:28            Transit: 11:48   31°</p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: 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: 0Mag E of N   Pixel scale = 2.228 arcsec/pixel   FL=540mm</p> <p style="font-size: x-small; text-align: right;">James Yoder   Date(s) 2020/12/14   Location: Maricopa Grand Trailhead, AZ              Config:  C-11HD  HyperStar v4   Shadur Ringlow   QHY128K              Exposure Info: 210ms/Frame   Gain: 3200   Offset: 100</p>
<p><b>Sculptor Galaxy (NGC-253)</b>            Config: C11-HD   ZWO6200MC</p> <p>Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Sculptor</b>            Coordinates:  <b>00h 47' 33"</b>  <b>-25° 17' 15"</b></p> <p>Close Star: SAO-147420 (Diphda)            Catalog Objects: <a href="#">NGC-253</a>            Imaging Window: *09:41 – 01:39            Transit: 11:42   30°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Sculptor Galaxy (NGC 253)            Constellation: Sculptor</p> <p style="font-size: x-small; text-align: right;">James Yoder   Date(s) 2023/08/21   Location: Chandler, AZ              Config:  C11  Starizona L.F. Corrector   Shadur Moon Filter   QHY128K              Exposure Info: 1000ms/Frame   Gain: 3200   Offset: 100</p>

# Prospective Imaging Objects – October 14 2023

<p><b>NGC-288</b>            Config: C11-HD   ZWO6200MC</p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Sculptor</b>            Coordinates:  <b>00h 52' 45"</b>  <b>-26° 35' 51"</b></p> <p>Close Star: SAO-147420 (Diphda)            Catalog Objects: <a href="#">NGC-288</a>            Imaging Window: *10:03 – 01:28            Transit: 11:48   31°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p>FOV 0.73 x 0.49° · RA 00hr 52' 45", DEC -26° 35' 51"</p>
<p><b>NGC-188</b>            Config: C11-HD   FR   ZWO6200MC</p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Cepheus</b>            Coordinates:  <b>00h 47' 30"</b>  <b>85° 15' 30"</b></p> <p>Close Star: SAO-308 (Polaris)            Catalog Objects: <a href="#">NGC-188</a>            Imaging Window: *07:28 – 03:52            Transit: 11:42   38°</p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p>FOV 1.04 x 0.70° · RA 00hr 47' 30", DEC 85° 15' 30"</p>
<p><b>NGC-281</b>            Config: C11-HD   FR   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Cassiopeia</b>            Coordinates:  <b>00h 53' 00"</b>  <b>56° 37' 00"</b></p> <p>Close Star: SAO-11482 (Navi)            Catalog Objects: <a href="#">NGC-281</a>            Imaging Window: 08:09 – 03:35            Transit: 11:52   67°</p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p>NGC-281            Pacman Nebula</p> <p>James Yelder            2015-09-11</p>



# Prospective Imaging Objects – October 14 2023

<p><b>IC-59, IC-63</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cassiopeia</b>            Coordinates:  <b>01h 03' 11"</b>  <b>60° 42' 24"</b></p> <p>Close Star: SAO-11482 (Navi)            Catalog Objects: <a href="#">IC-59</a>, <a href="#">IC-63</a>            Imaging Window: <b>08:09 – 03:35</b>            Transit: <b>11:52   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>IC-59, IC-63</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cassiopeia</b>            Coordinates:  <b>00h 58' 48"</b>  <b>61° 04' 02"</b></p> <p>Close Star: SAO-11482 (Navi)            Catalog Objects: <a href="#">IC-59</a>, <a href="#">IC-63</a>            Imaging Window: <b>08:09 – 03:35</b>            Transit: <b>11:52   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>IC-1613</b>            Config: C11-HD   ZWO6200MC</p> <p>Type: <b>Irregular Dwarf Galaxy</b></p> <p>Constellation: <b>Cetus</b>            Coordinates:  <b>01h 04' 48"</b>  <b>02° 07' 07"</b></p> <p>Close Star: SAO-75151 (Hamal)            Catalog Objects: <a href="#">IC-1613</a>            Imaging Window: <b>09:45 – 02:18</b>            Transit: <b>12:00   59°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

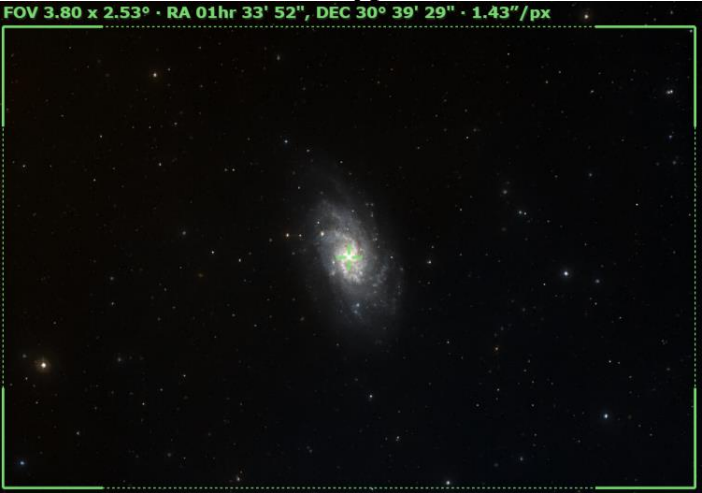


# Prospective Imaging Objects – October 14 2023

<p><b>Mirachs Ghost (NGC-404)</b>            Config: C11-HD   ZWO6200MC</p> <p>Type: <b>Elliptical Galaxy</b></p> <p>Constellation: <b>Andromeda</b>            Coordinates:  <b>01h 09' 36"</b>  <b>35° 40' 58"</b></p> <p>Close Star: SAO-544471 (Mirach)            Catalog Objects: <a href="#">NGC-404</a>            Imaging Window: <b>08:24 – 03:45</b>            Transit: <b>12:04   88°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>
<p><b>NGC-457 &amp; Dolphin Nebula</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Open Cluster &amp; Nebula</b></p> <p>Constellation: <b>Cassiopeia</b>            Coordinates:  <b>01° 23' 38"</b>  <b>58° 12' 54"</b></p> <p>Close Star: SAO-22268 (Ruchbah)            Catalog Objects: <a href="#">NGC-457</a>            Imaging Window: <b>08:27 – 04:01</b>            Transit: <b>12:14   65°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p>
<p><b>Owl Cluster (NGC-457)</b>            Config: C11-HD   ZWO6200MC</p> <p>Type: <b>Open Cluster &amp; Nebula</b></p> <p>Constellation: <b>Cassiopeia</b>            Coordinates:  <b>01h 23' 38"</b>  <b>58° 12' 54"</b></p> <p>Close Star: SAO-22268 (Ruchbah)            Catalog Objects: <a href="#">NGC-457</a>            Imaging Window: <b>08:27 – 04:01</b>            Transit: <b>12:14   65°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>




# Prospective Imaging Objects – October 14 2023

<p><b>Minkowski's Object</b> (Arp-133) Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxy Cluster</b> Constellation: <b>Cetus</b> Coordinates: <b>01h 25' 27"</b> <b>-01° 29' 03"</b></p> <p>Close Star: SAO-75151 (Hamal) Catalog Objects: <a href="#">ARP-133</a> Imaging Window: <b>10:19 – 02:22</b> Transit: <b>12:20   55°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>
<p><b>Firefox Nebula</b> (Sh 2-188) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b> Peak: Constellation: <b>Cassiopeia</b> Coordinates: <b>01h 31' 37"</b> <b>58° 21' 22"</b></p> <p>Close Star: SAO-22268 (Ruchbah) Catalog Objects: <a href="#">Sh 2-188</a></p> <p>Imaging Window: <b>08:38 – 04:12</b> Transit: <b>12:25   65°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>
<p><b>M-103</b> (NGC-581) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b> Constellation: <b>Cassiopeia</b> Coordinates: <b>01h 33' 31"</b> <b>60° 39' 44"</b></p> <p>Close Star: ISO-22268 (Ruchbah) Catalog Objects: <a href="#">M-103</a>/NGC-581</p> <p>Imaging Window: <b>08:44 – 04:12</b> Transit: <b>12:28   63°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>




# Prospective Imaging Objects – October 14 2023

<p><b>Triangulum Galaxy (M-33)</b>            Config: C11   HS   ZWO6200MC</p> <p>Type: <b>Galaxy</b>            Constellation: <b>Triangulum</b>            Coordinates:  <b>01h 33' 52"</b>  <b>30° 39' 29"</b></p> <p>Close Star: <b>SAO-74996</b>            Catalog Objects: <a href="#">M33</a>, NGC598</p> <p>Imaging Window: <b>08:55 – 04:02</b>            Transit: <b>12:28   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>Triangulum Galaxy (M-33)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Galaxy</b>            Peak: <b>Oct 14</b>            Constellation: <b>Triangulum</b></p> <p><b>Camera Rotation - 90°</b>            Coordinates:  <b>01h 33' 52"</b>  <b>30° 39' 29"</b></p> <p>Close Star: <b>SAO-74996</b>            Catalog Objects: <a href="#">M33</a>, NGC598</p> <p>Imaging Window: <b>08:55 – 04:02</b>            Transit: <b>12:28   87°</b></p>	<p style="text-align: center;"><b>CH11-HD Focal Reducer 90° Rotation</b></p> 
<p><b>Triangulum Galaxy (M-33)</b>            Config:  ZWO6200MC </p> <p>Type: <b>Galaxy</b>            Peak: <b>Oct 14</b>            Constellation: <b>Triangulum</b>            Coordinates:  <b>01° 34' 53.37"</b>  <b>30° 45' 11.2"</b></p> <p>Close Star: <b>SAO-74996</b>            Catalog Objects: <a href="#">M33</a>, NGC598</p> <p>Imaging Window: <b>08:55 – 04:02</b>            Transit: <b>12:28   87°</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p> 

# Prospective Imaging Objects – October 14 2023


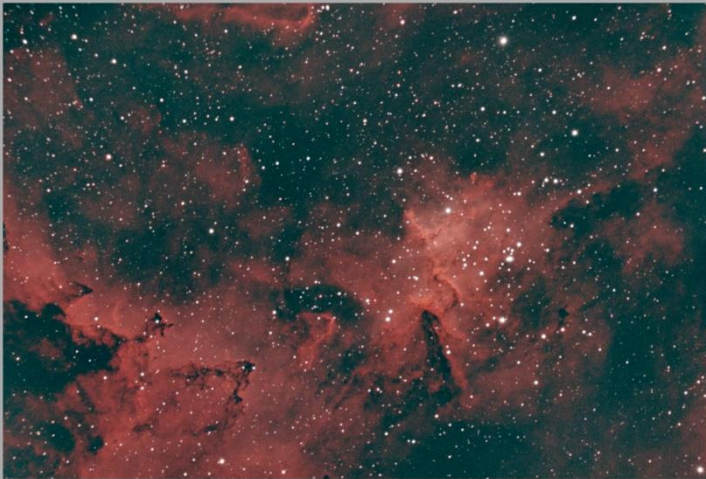

<p><b>M-74</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Spiral Galaxy</b> Peak: Constellation: <b>Pisces</b> Coordinates: <b>01h 36' 42"</b> <b>15° 46' 60"</b></p> <p>Close Star: ISO-91781 (Algenib) Catalog Objects: <a href="#">M-74</a></p> <p>Imaging Window: <b>09:27 – 03:35</b> Transit: <b>12:31   72°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Spiral Galaxy M-74 (NGC-628) Constellation: Pisces RA = 01h 36m 42.52s DEC = +15deg 46' 59.83" Size = 42.7 x 28.5 arcmin. Pixel scale = 0.441 arcsec/pix James VanDer Vliet (2012-01-01) Location: Mountain View, California, AZ Camera: C-11 HD (4000) Filter: None Exposure Info: 480img/Sum (Gain: 3200) (Offset: 180)</p>
<p><b>Little Dumbbell Nebula (M-76)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b> Peak: Constellation: <b>Perseus</b> Coordinates: <b>01h 42' 18"</b> <b>51° 34' 17"</b></p> <p>Close Star: ISO-37375 Catalog Objects: <a href="#">M-76</a></p> <p>Imaging Window: <b>08:46 – 04:27</b> Transit: <b>12:37   72°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Little Dumbbell Nebula (M-76, NGC-650) Constellation: Perseus RA = 01h 42m 15.11s DEC = +51deg 34' 17.5" Size = 36.8 x 24.5 arcmin. Orientation: 0.4deg E of N. Pixel scale = 0.446 arcsec/pix (FL=200mm) James VanDer Vliet (2020-10-14), Chandler (2020-10-10), AZ Camera: C-11 HD (4000) Filter: None (CFR 128) Exposure Info: 480img/Sum (Gain: 3200) (Offset: 180)</p>
<p><b>Nautilus Galaxy (NGC-772)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b> Peak: Constellation: <b>Aries</b> Coordinates: <b>01h 59' 19"</b> <b>19° 00' 27"</b></p> <p>Close Star: ISO-75012 (Sheratan) Catalog Objects: <a href="#">NGC-772</a></p> <p>Imaging Window: <b>09:42 – 04:05</b> Transit: <b>12:54   76°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Nautilus Galaxy (NGC-772) Constellation: Aries RA = 01h 59m 19.11s DEC = +19deg 00' 27.5" Size = 36.8 x 24.5 arcmin. Orientation: 0.4deg E of N. Pixel scale = 0.446 arcsec/pix (FL=200mm) James VanDer Vliet (2020-10-14), Chandler (2020-10-10), AZ Camera: C-11 HD (4000) Filter: None (CFR 128) Exposure Info: 480img/Sum (Gain: 3200) (Offset: 180)</p>

# Prospective Imaging Objects – October 14 2023

<p><b>Hand chi Persei</b> (NGC 869, 884)            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Double Open Cluster</b>            Peak: <b>October 28</b>            Constellation: <b>Perseus</b>            Coordinates:  <b>02hr 20' 31"</b>  <b>56° 54' 05"</b></p> <p>Close Star: SAO-22258 (Ruchbah)            Catalog Objects: <a href="#">NGC 869, 884</a></p> <p>Imaging Window: <b>09:29 – 05:04</b>            Transit: <b>01:17   66°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>Edge On Galaxy</b> (NGC 891)            Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Galaxy</b>            Peak: <b>Oct 27</b>            Constellation: <b>Andromeda</b>            Coordinates:  <b>02h 23' 43.29"</b>  <b>42° 25' 46.4"</b></p> <p>Close Star: <b>SAO-37734</b>            Catalog Objects: <a href="#">NGC891</a></p> <p>Imaging Window: <b>09:30 – 05:04</b>            Transit: <b>01:17   81°</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p>  <p><small>Edge On Spiral Galaxy NGC 891</small></p>
<p><b>NGC-925</b> (PGC 9332)            Config:  C11-HD ZWO6200MC </p> <p>Type: <b>Galaxy</b>            Constellation: <b>Triangulum</b>            Coordinates:  <b>02h 27' 17"</b>  <b>33° 34' 44"</b></p> <p>Close Star: <b>SAO-55306</b> (Beta Trianguli)            Catalog Objects: <a href="#">NGC925/PGC9332</a></p> <p>Imaging Window: <b>09:44 – 05:00</b>            Transit: <b>01:22   90°</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p>  <p><small>NGC-925            Primary Focus Galaxy in Triangulum</small></p>






# Prospective Imaging Objects – October 14 2023




<p><b>Heart Nebula (IC 1805)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Constellation: <b>Cassiopeia</b>            Coordinates:  <b>02hr 26' 36"</b>  <b>62° 06' 53"</b></p> <p>Close Star: SAO-12031            Catalog Objects: <a href="#">IC 1805</a></p> <p>Imaging Window: <b>09:45 – 05:10</b>            Transit: <b>01:27   63°</b></p>	<p style="text-align: center;">CH11-HD <b>Focal Reducer</b></p>  <p style="font-size: small;">Heart Nebula core (IC-1805)            Constellation: Cassiopeia            Location: Cassiopeia, AZ            Config:  C11-HD 0.7 Reducer Astromaster CLS-CCD QHY192C             Exposure Info: 2023-08-08 21:00:00 10s</p>
<p><b>Heart Nebula (IC-1805)</b>            Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak: <b>October 31</b>            Constellation: <b>Cassiopeia</b>            Coordinates:  <b>02hr 32' 42"</b>  <b>61° 27' 00"</b></p> <p>Close Star: SAO-12031            Catalog Objects: <a href="#">IC 1805</a></p> <p>Imaging Window: <b>09:45 – 05:10</b>            Transit: <b>01:27   63°</b></p>	<p style="text-align: center;">Primary Focus</p>  <p style="font-size: small;">Heart Nebula Core (IC-1805)            Constellation: Cassiopeia            Location: Cassiopeia, AZ            Config:  C1 Starfire LF Reducer OPT Trak Elite QHY192C             Exposure Info: 2023-08-08 21:00:00 17s</p>
<p><b>M-77, NGC 1055</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Galaxy</b>            Peak:            Constellation: <b>Cetus</b>            Coordinates:  <b>02hr 42' 14"</b>  <b>00° 14' 28"</b>  <b>Angle: 90°</b></p> <p>Close Star: <b>SAO-110665</b>            Catalog Objects: <a href="#">M-77</a>, <a href="#">NGC-1055</a>,  <a href="#">NGC-1068</a></p> <p>Imaging Window: <b>11:26 – 03:47</b>            Transit: <b>01:36   57°</b></p>	<p style="text-align: center;">CH11-HD <b>Focal Reducer</b></p>  <p style="font-size: small;">Galaxies NGC-1055, M-77, NGC-1072            Constellation: Cetus            Location: Cetus, AZ            Config:  C11-HD 0.7 Reducer Filters: Baader Skyglow, CLS-CCD, IDAS LPS-42 Camera: QHY192C             Exposure Info: 2023-08-08 21:00:00 180s</p>




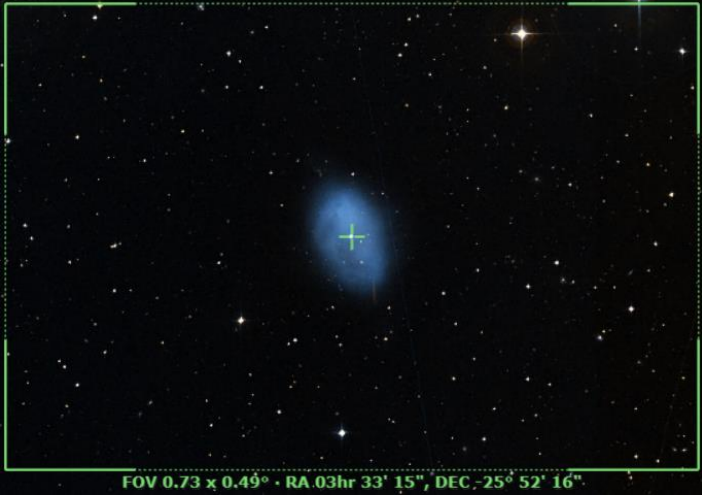

# Prospective Imaging Objects – October 14 2023

<p><b>NGC-1055</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b> Peak: Constellation: <b>Cetus</b> Coordinates: <b>02hr 41' 50"</b> <b>00° 29' 48"</b></p> <p>Close Star: <b>SAO-110665</b> Catalog Objects: <a href="#">NGC-1055</a></p> <p>Imaging Window: <b>11:26 – 03:47</b> Transit: <b>01:36   57°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p>A wide-field astronomical image showing the galaxy NGC 1055. The galaxy is a faint, elongated, and slightly curved structure of stars and dust, oriented horizontally. It is surrounded by a field of stars. A green crosshair is centered on the galaxy. The image is framed by a green border. On the left side, there is a vertical control bar with icons and the number '055'.</p>
<p><b>M 77 (NGC 1068)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b> Peak: Constellation: <b>Cetus</b> Coordinates: <b>02hr 42' 34"</b> <b>00° 02' 07"</b></p> <p>Close Star: <b>SAO-110665</b> Catalog Objects: M 77, <a href="#">NGC-1068</a></p> <p>Imaging Window: <b>11:39 – 03:45</b> Transit: <b>01:37   57°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p>A wide-field astronomical image showing the galaxy M 77 (NGC 1068). The galaxy is a bright, irregularly shaped structure of stars and dust, oriented horizontally. It is surrounded by a field of stars. A green crosshair is centered on the galaxy. The image is framed by a green border. On the left side, there is a vertical control bar with icons and the number '77'.</p>
<p><b>M-34 (NGC-1039)</b> Config:  C11-HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b> Constellation: <b>Perseus</b> Coordinates: <b>02h 42' 05"</b> <b>42° 45' 42"</b></p> <p>Close Star: <b>SAO-38592 (Algol)</b> Catalog Objects: <a href="#">M-34</a>/NGC-1039</p> <p>Imaging Window: <b>09:49 – 05:24</b> Transit: <b>01:37   81°</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p>  <p>A wide-field astronomical image showing the open star cluster M-34 (NGC-1039). The cluster is a dense field of stars, with many bright stars and some blue stars. A green crosshair is centered on the cluster. The image is framed by a green border.</p>

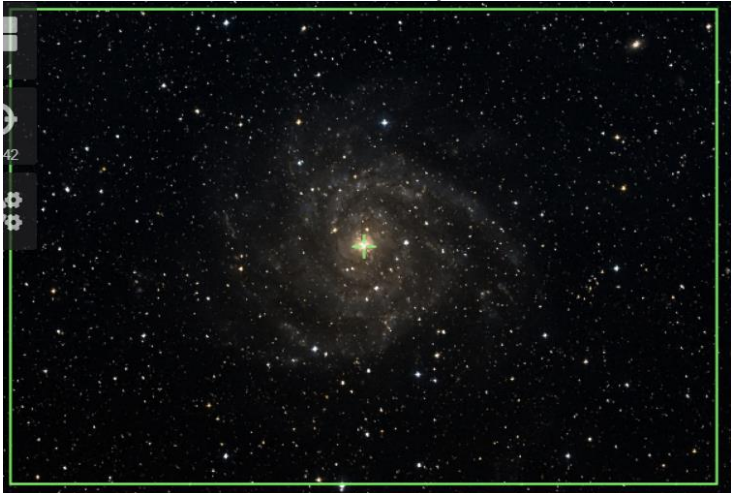


# Prospective Imaging Objects – October 14 2023

<p><b>Soul Nebula (IC-1848)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Cassiopeia</b>            Coordinates:  <b>02hr 57' 16"</b>  <b>60° 37' 37"</b></p> <p>Close Star: <b>SAO-38787 (Mirfak)</b>            Catalog Objects: <a href="#">IC 1848</a></p> <p>Imaging Window: <b>10:02 – 05:30</b>            Transit: <b>01:46   63°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Soul Nebula (IC-1848)            Constellation: Cassiopeia</p> <p style="font-size: x-small; text-align: right;">James Yoder - 2018-08-20            Location: Chandler, AZ            Config: C11   HyperStar   Astronomik L12C   ZWO128L            Exposure Info: 260msx35ms   Gain: 3200   Offset: 180</p>
<p><b>Soul Nebula (IC-1848)</b>            Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Cassiopeia</b>            Coordinates:  <b>02hr 57' 16"</b>  <b>60° 37' 37"</b></p> <p>Close Star: <b>SAO-38787 (Mirfak)</b>            Catalog Objects: <a href="#">IC 1848</a></p> <p>Imaging Window: <b>10:02 – 05:30</b>            Transit: <b>01:46   63°</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p>  <p style="font-size: small;">Soul Nebula (IC-1848)            Constellation: Cassiopeia</p> <p style="font-size: x-small; text-align: right;">James Yoder - 2018-12-09            Location: Chandler, AZ            Config: C11   Stronix LF Filter   D1643 Filter   QHY128C            Exposure Info: 250msx10ms   Gain: 300   Offset: 180</p>
<p><b>Perseus Galaxy Cluster</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b>            Peak:            Constellation: <b>Perseus</b>            Coordinates:  <b>03hr 19' 58"</b>  <b>41° 29' 13"</b></p> <p>Close Star: <b>SAO-38592 (Algol)</b>            Catalog Objects: <a href="#">Abell-426</a>, NGC1275, 1278, 1272, Et. El.</p> <p>Imaging Window: <b>10:28 – 05:37</b>            Transit: <b>02:14   82°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – October 14 2023

<p><b>NGC-1333</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b> Peak: <b>November 13</b> Constellation: <b>Perseus</b> Coordinates: <b>03hr 29' 15"</b> <b>31° 20' 12"</b></p> <p>Close Star: <b>SAO-56799</b> Catalog Objects: <a href="#">NGC 1333</a></p> <p>Imaging Window: <b>10:49 – 05:37</b> Transit: <b>02:23   88°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Robins Egg Nebula (NGC-1360)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b> Peak: Constellation: <b>Fornax</b> Coordinates: <b>03hr 33' 15"</b> <b>-25° 52' 16"</b></p> <p>Close Star: <b>SAO-168460</b> Catalog Objects: <a href="#">NCC-1360</a></p> <p>Imaging Window: <b>*02:33 – 04:14</b> Transit: <b>02:28   31°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></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><b>IC-348</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b> Peak: Constellation: <b>Perseus</b> Coordinates: <b>03hr 44' 26"</b> <b>32° 10' 54"</b></p> <p>Close Star: <b>SAO-147420</b> Catalog Objects: <a href="#">IC-348</a></p> <p>Imaging Window: <b>11:03 – 05:37</b> Transit: <b>02:39   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – October 14 2023


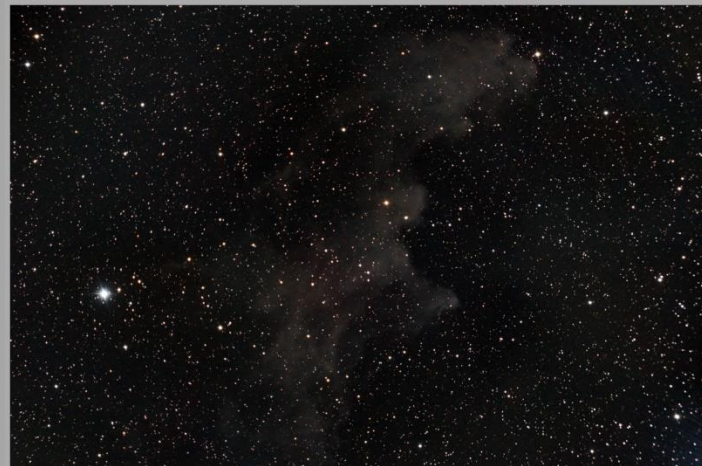

<p><b>IC-342</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b>            Peak:            Constellation: <b>Camelopardalis</b>            Coordinates:  <b>03hr 46' 48"</b>  <b>68° 05' 44"</b></p> <p>Close Star: <b>SAO-12031 (Segin)</b>            Catalog Objects: <a href="#">IC-342</a></p> <p>Imaging Window: <b>11:19 – 05:37</b>            Transit: <b>02:41   55°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Pleiades (M 45)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b>            Peak: <b>November 16</b>            Constellation: <b>Taurus</b>            Coordinates:  <b>03hr 46' 07"</b>  <b>24° 11' 18"</b></p> <p>Close Star: <b>SAO-56799</b>            Catalog Objects: <a href="#">M45</a></p> <p>Imaging Window: <b>11:19 – 05:37</b>            Transit: <b>02:41   81°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">The Pleiades (M-45)            Constellation: Taurus</p> <p style="font-size: x-small; text-align: right;">James VanDerKam, 2018.10.05            Location: Mountain View, CA            Config: C11 HyperStar (QHY12K)            Exposure Info: 200ms/Star (Gain: 1000) Offset: 150</p>
<p><b>Pleiades (M-45)</b>            Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak: <b>November 16</b>            Constellation: <b>Taurus</b>            Coordinates:  <b>03hr 46' 15.932"</b>  <b>24° 12' 07.154"</b></p> <p>Close Star: <b>SAO-56799</b>            Catalog Objects: <a href="#">M45</a></p> <p>Imaging Window: <b>11:19 – 05:37</b>            Transit: <b>02:41   81°</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p>  <p style="font-size: small;">The Pleiades (M-45)            Constellation: Taurus</p> <p style="font-size: x-small; text-align: right;">James VanDerKam, 2019.09.27            Location: Mountain View, CA            Config: C11 LF Coronado Starwave (QHY12K)            Exposure Info: 200ms/Star (Gain: 200) Offset: 100</p>

# Prospective Imaging Objects – October 14 2023



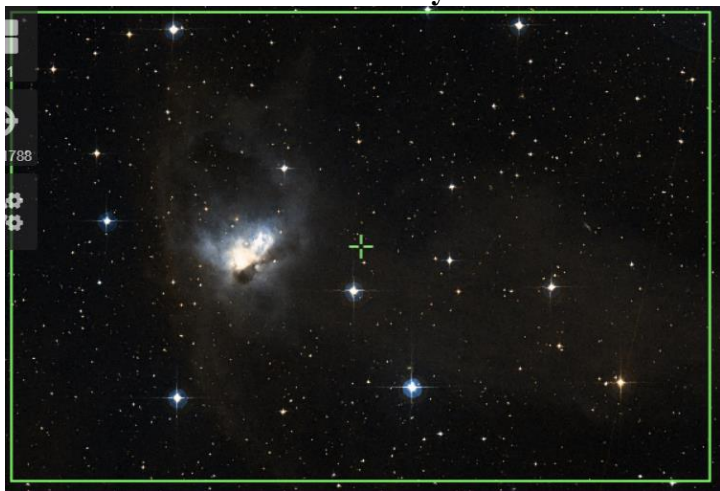
<p><b>California Nebula</b> (NGC 1499)            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b>            Peak: <b>November 22</b>            Constellation: <b>Perseus</b>            Coordinates:  <b>04hr 01' 22"</b>  <b>36° 21' 19"</b></p> <p>Close Star: SAO-56840            Catalog Objects: <a href="#">NGC 1499</a></p> <p>Imaging Window: <b>11:16 – 05:37</b>            Transit: <b>02:57   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">California Nebula (NGC-1499)            Constellation: Perseus</p> <p style="font-size: x-small; text-align: right;">James Volder   2015-08-31            Location: Chandler, AZ            Config: C11   HyperStar   Astronomik U.S.A.-C11   C11-120            Exposure Info: 223img/Star   Gain: 3200   Offset: 180</p>
<p><b>Oyster Nebula</b> (NGC 1501)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Constellation: <b>Camelopardalis</b>            Coordinates:  <b>04hr 06' 58"</b>  <b>60° 55' 3.5"</b></p> <p>Close Star: SAO-038787 (Mirfak)            Catalog Objects: <a href="#">NGC-1501</a></p> <p>Imaging Window: <b>11:18 – 05:37</b>            Transit: <b>03:01   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small;">NGC-1501 (Oyster Nebula)            Constellation: Camelopardalis            J2000: 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   F1=2500mm</p> <p style="font-size: x-small; text-align: right;">James Volder   Datas 2021-12-19   Location: Chandler, AZ            Config: C-11 HD   FPT   Triad Radon Ultra   ZWO 6200MC              Exposure Info: 67   7img/Star   Gain: 100   Offset: 50</p>
<p><b>Crystal Ball Nebula</b> (NGC 1514)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Constellation: <b>Taurus</b>            Coordinates:  <b>04hr 09' 17"</b>  <b>30° 46' 35"</b></p> <p>Close Star: SAO-56799            Catalog Objects: <a href="#">NGC-1514</a></p> <p>Imaging Window: <b>11:30 – 05:37</b>            Transit: <b>03:03   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small;">NGC-1514 (Crystal Ball Nebula)            Constellation: Taurus            J2000: RA=04h 09m 17.6s DEC=+30deg 46' 35.0" Size=18.5 x 13.9 arcmin Orientation: 0.4deg E of N. Pixel scale=0.278 arcsecond   F1=2500mm</p> <p style="font-size: x-small; text-align: right;">James Volder   Datas 2020-12-09   Location: Chandler, AZ            Config: C-11 HD   FPT   Triad Ultra   ZWO6200MC              Exposure Info: 44   6img/Star   Gain: 100   Offset: 50</p>



# Prospective Imaging Objects – October 14 2023




<p><b>Trifid of the North (NGC 1579)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Perseus</b>            Coordinates:  <b>04hr 30' 12"</b>  <b>35° 16' 60"</b></p> <p>Close Star: SAO-56799            Catalog Objects: <a href="#">NGC-1579</a></p> <p>Imaging Window: <b>11:44 – 05:37</b>            Transit: <b>03:24   88°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Witch Head Nebula (IC 2118)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Eridanus</b>            Coordinates:  <b>05hr 05' 19.872"</b>  <b>-06° 56' 00.365"</b></p> <p>Close Star: SAO-131794            Catalog Objects: <a href="#">IC 2118</a></p> <p>Imaging Window: <b>*12:49 – 05:37</b>            Transit: <b>03:59   49°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></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 arcsecond              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><b>Witch Head Nebula (IC 2118)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Eridanus</b>            Coordinates:  <b>05hr 07' 07"</b>  <b>-06° 20' 07"</b></p> <p>Close Star: SAO-131794            Catalog Objects: <a href="#">IC 2118</a></p> <p>Imaging Window: <b>*12:49 – 05:37</b>            Transit: <b>03:59   49°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – October 14 2023




<p><b>Foxface Nebula</b> (NGC 1788)          Config:  C11 HS ZWO6200MCc           Type: <b>Bright Nebula</b>          Peak:          Constellation: <b>Orion</b>          Coordinates:  <b>05hr 06' 10"</b>  <b>-04° 04' 26"</b></p> <p>Close Star: SAO-131794          Catalog Objects: <a href="#">NGC 1788</a></p> <p>Imaging Window: <b>02:11 – 05:37</b>          Transit: <b>04:01</b></p>	<p style="text-align: center;"><b>Hyperstar</b></p> 
<p><b>Foxface Nebula</b> (NGC 1788)          Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>          Peak:          Constellation: <b>Orion</b>          Coordinates:  <b>05hr 05' 52"</b>  <b>-03° 22' 22"</b></p> <p>Close Star: SAO-131794          Catalog Objects: <a href="#">NGC 1788</a></p> <p>Imaging Window: <b>02:11 – 05:37</b>          Transit: <b>04:01</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Foxface Nebula</b> (NGC 1788)          Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>          Peak:          Constellation: <b>Orion</b>          Coordinates:  <b>05hr 06' 26"</b>  <b>-03° 20' 13"</b></p> <p>Close Star: SAO-131794          Catalog Objects: <a href="#">NGC 1788</a></p> <p>Imaging Window: <b>02:11 – 05:37</b>          Transit: <b>04:01</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 



# Prospective Imaging Objects – October 14 2023



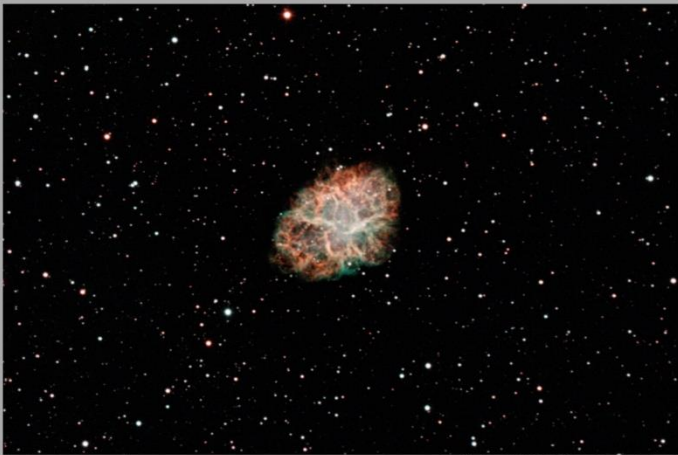
<p><b>Flaming Star Nebula (IC-405)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 19' 38"</b>  <b>33° 49' 10"</b></p> <p>Close Star: SAO-77168 (Elnath)            Catalog Objects: <a href="#">IC 405</a>, <a href="#">IC 410</a></p> <p>Imaging Window: <b>12:32 – 05:37</b>            Transit: <b>04:10   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Flaming Star Nebula (IC-405, IC-410, IC-417)            Constellation: Auriga            Config: C-11HD HyperStar v4, Apm200M C-11 CCD, 100/125            RA = 05h 19m 35.62s DEC = +33deg 49' 17.22" Size = 13.8 x 21.96 deg. Print scale = 2.20 arc/pixel            Exposure: 16s x 170000000 Gain: 3200 (Offset: 100)</p>
<p><b>Flaming Star Nebula (IC 405)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 15' 55"</b>  <b>34° 29' 08"</b></p> <p>Close Star: SAO-77168 (Elnath)            Catalog Objects: <a href="#">IC 405</a></p> <p>Imaging Window: <b>12:32 – 05:37</b>            Transit: <b>04:10   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small;">Flaming Star Nebula (IC-405)            Constellation: Auriga            Config: C-11-HD (8.7 Reducer) Filter: Opening 4-C-11 (Canon GH15 LDC)            Exposure: 16s x 170000000 Gain: 3200 (Offset: 100)</p>
<p><b>Flaming Star Nebula (IC 405)</b>            Config:  C11-HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 16' 37"</b>  <b>34° 23' 47"</b></p> <p>Close Star: SAO-77168 (Elnath)            Catalog Objects: <a href="#">IC 405</a></p> <p>Imaging Window: <b>12:32 – 05:37</b>            Transit: <b>04:10   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Flaming Star Nebula (IC-405)            Constellation: Auriga            Config: C-11-HD (8.7 Reducer) Filter: Opening 4-C-11 (Canon GH15 LDC)            Exposure: 16s x 170000000 Gain: 3200 (Offset: 100)</p>

# Prospective Imaging Objects – October 14 2023

<p><b>Tadpoles (IC 410)</b>            Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 22' 54"</b>  <b>33° 23' 31"</b></p> <p>Close Star: SAO-77168 (Elnath)            Catalog Objects: <a href="#">IC 410</a></p> <p>Imaging Window: <b>12:39 – 05:37</b>            Transit: <b>04:17   90°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small;">Tadpole Nebula (IC-410)            Constellation: Auriga            RA: 05h 22m 51.95s (IC) Dec: +33deg 23' 31.10" (IC) Mag: 2.7-2.8 (IC) Size: 18.5 x 18.8 arcmin (Observed: Mag 5.0 of N. (Pixel scale = 0.63 arcsec/pixel) F5-1000nm)            Image Scale: (Date): 2023 01 01 Location: Chandler, AZ            Config: C-11 HD 16" Focuser 1.8x Barlow 1.8x Optolong L-Extreme Camera: QHY129C            Exposure Info: 0.50sec/Frame Gain: 23001 Offset: 100</p>
<p><b>Tadpoles (IC 410)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 22' 37"</b>  <b>33° 23' 03"</b></p> <p>Close Star: SAO-77168 (Elnath)            Catalog Objects: <a href="#">IC 410</a></p> <p>Imaging Window: <b>12:39 – 05:37</b>            Transit: <b>04:17   90°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Tadpole Nebula (IC-410)            Constellation: Auriga            RA: 05h 22m 35.01s (IC) Dec: +33deg 23' 03.10" (IC) Mag: 2.7-2.8 (IC) Size: 42 x 28.8 arcmin (Pixel scale = 0.642 arcsec/pixel)            Image Scale: (Date): 2023 01 01 Location: Chandler, AZ            Config: C-11 HD Astrocam 1.8 x L-Extreme Camera: QHY129C            Exposure Info: 2.00sec/Frame Gain: 23001 Offset: 100</p>
<p><b>M-79 (NGC-1904)</b>            Config:  C11HD <b>Barlow x2</b> ZWO6200MC </p> <p>Type: <b>Globular Cluster</b>            Peak:            Constellation: <b>Lepus</b>            Coordinates:  <b>05hr 24' 11"</b>  <b>-24° 31' 25"</b></p> <p>Close Star: SAO-170457            Catalog Objects: <a href="#">M 79</a></p> <p>Imaging Window: <b>*03:02 – 05:26</b>            Transit: <b>04:18   32°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus *x2</b></p> 



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<p><b>Starfish Cluster (M-38)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b>            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 28' 43"</b>  <b>35° 51' 18"</b></p> <p>Close Star: <b>SAO-77168</b> (Elnath)            Catalog Objects: <a href="#">M-38</a></p> <p>Imaging Window: <b>12:42 – 08:03</b>            Transit: <b>04:23   88°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">M-038 Starfish Cluster</p> <p style="text-align: right; font-size: x-small;">James Voder 2019.09.30</p>
<p><b>The Fly (NGC 1931)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 31' 24"</b>  <b>34° 15' 00"</b></p> <p>Close Star: SAO-77168 (Elnath)            Catalog Objects: <a href="#">NGC 1931</a></p> <p>Imaging Window: <b>12:47 – 05:37</b>            Transit: <b>04:25   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small;">931</p>
<p><b>Crab Nebula (M 1)</b>            Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Peak:            Constellation: <b>Taurus</b>            Coordinates:  <b>05hr 34' 30"</b>  <b>22° 00' 59.9"</b></p> <p>Close Star: SAO-77336            Catalog Objects: <a href="#">M 1</a></p> <p>Imaging Window: <b>01:10 – 05:37</b>            Transit: <b>04:28   79°</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p>  <p style="font-size: x-small;">Crab Nebula (Messier-1)            Constellation: Taurus            [RA = 5h 34m 31.3s DEC = +22deg 00' 34.4" Size = 51.5 x 21.0 arcmin   Orientation: -0.34deg   Pixel scale = 0.447 arcsec/pixel   FL = 2756mm ]</p> <p style="font-size: x-small; text-align: right;">James Voder   Date(s) 2022.02.05, 07, 08, 09, 10   Location: Chandler, AZ            Config:  C-11 HD Filter: OIII-Radiant Ultra (08V128)             Exposure Info: (750ms@4min) Gain: 3200   Offset: 180</p>

# Prospective Imaging Objects – October 14 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)

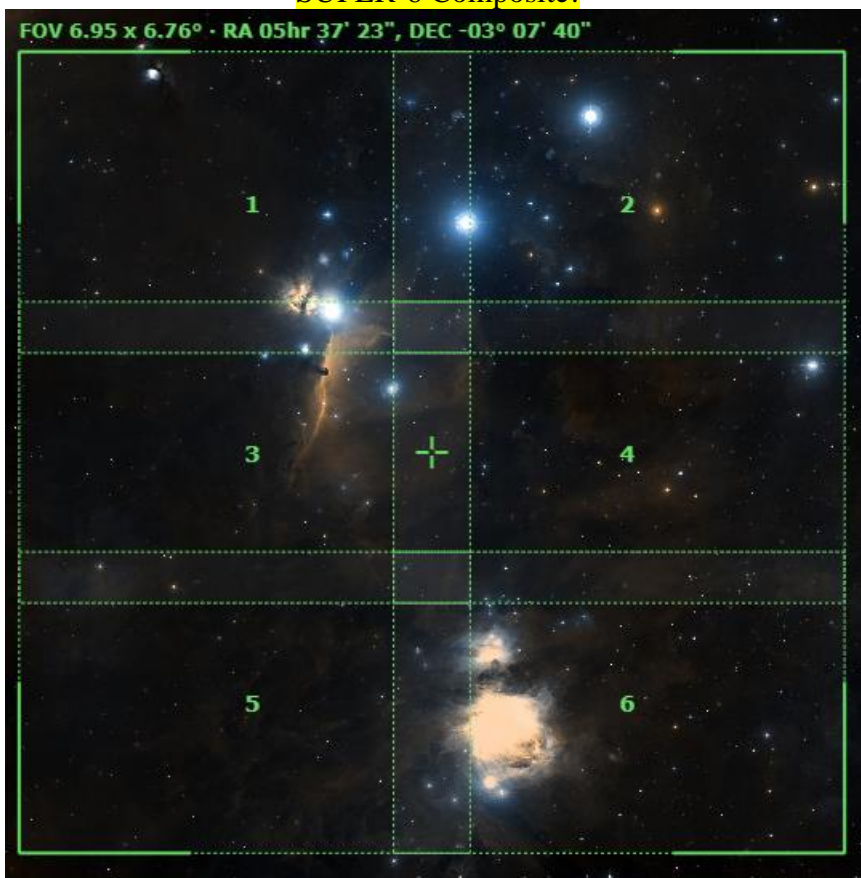
Catalog Objects: [M-42](#)

Imaging Window: 02:53 – 05:37

Transit: 04:29

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"

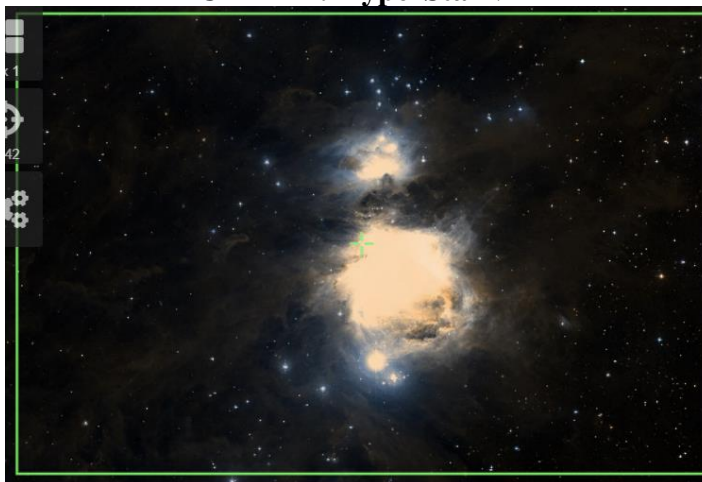
Close Star: SAO-132542 (Saiph)

Catalog Objects: [M 42](#)




Imaging Window: 02:53 – 05:37

Transit: 04:29


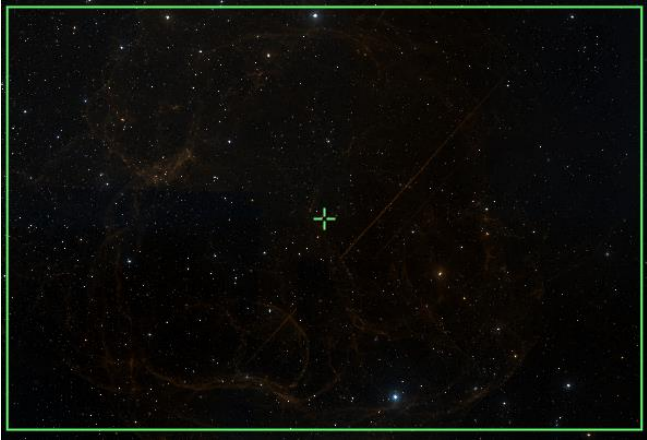
C-11 HD: HyperStar v4






# Prospective Imaging Objects – October 14 2023

<p><b>The Orion Nebula (M 42)</b>            Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 35' 09"</b>  <b>-05° 24' 32"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">M 42</a></p> <p>Imaging Window: <b>02:53 – 05:37</b>            Transit: <b>04:29</b></p>	<p style="text-align: center;">Primary Focus</p>  <p style="font-size: small;">Orion Nebula (M-42)            Constellation: Orion</p> <p style="font-size: x-small; text-align: right;">Image Date: 2019-01-15            Location: Chandler, AZ            Config:  C1 Starizona LE Reducer ZWO6200MC GOTO 126            Exposure Info: 25frames/300s Gain: 3200 / Offset: 180</p>
<p><b>Running Man Nebula (NGC 1977)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 35' 16"</b>  <b>-04° 41' 47"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">NGC 1977</a></p> <p>Imaging Window: <b>02:49 – 05:37</b>            Transit: <b>04:29   52°</b></p>	<p style="text-align: center;">C-11 HD: <b>Focal Reducer</b></p> 
<p><b>Pinwheel Cluster (M-36)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b>            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 36' 18"</b>  <b>34° 08' 27"</b></p> <p>Close Star: <b>SAO-77168</b> (Elnath)            Catalog Objects: <a href="#">M-36</a>/NGC-1960</p> <p>Imaging Window: <b>12:52 – 05:37</b>            Transit: <b>04:30   89°</b></p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: x-small;">Pinwheel Cluster (M-36, NGC-1960)            Constellation: Auriga</p> <p style="font-size: x-small; text-align: right;">Image Date: 2019-01-15            Location: Chandler, AZ            Config:  C11 Starizona LE Reducer ZWO6200MC GOTO 126            Exposure Info: 25frames/300s Gain: 3200 / Offset: 180</p>

# Prospective Imaging Objects – October 14 2023



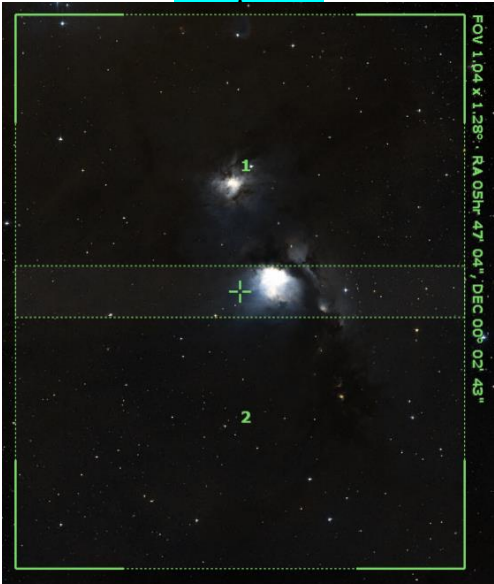
<p><b>Simeis 147</b> (SH2-240)          Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Diffuse Nebula</b>          Constellation: <b>Taurus</b></p> <p><b>Camera Rotation - 90°</b>          Coordinates:          Frame 01          RA: <b>05hr 45' 38"</b> DEC: <b>27° 56' 31"</b>          Frame 02          RA: <b>05hr 36' 28"</b> DEC: <b>27° 56' 31"</b></p> <p>Close Star: <b>SAO-77168</b> (Elnath)          Catalog Objects: <a href="#">SH2-240</a></p> <p>Imaging Window: <b>01:04 – 05:37</b>          Transit: <b>04:33   85°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b>  <b>Composite-2</b></p> 
<p><b>Simeis 147</b> (SH2-240)          Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Diffuse Nebula</b>          Constellation: <b>Taurus</b>          Coordinates:  <b>05hr 39' 04"</b>  <b>28° 00' 00"</b></p> <p>Close Star: <b>SAO-77168</b> (Elnath)          Catalog Objects: <a href="#">SH2-240</a></p> <p>Imaging Window: <b>01:04 – 05:37</b>          Transit: <b>04:33   85°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 

# Prospective Imaging Objects – October 14 2023



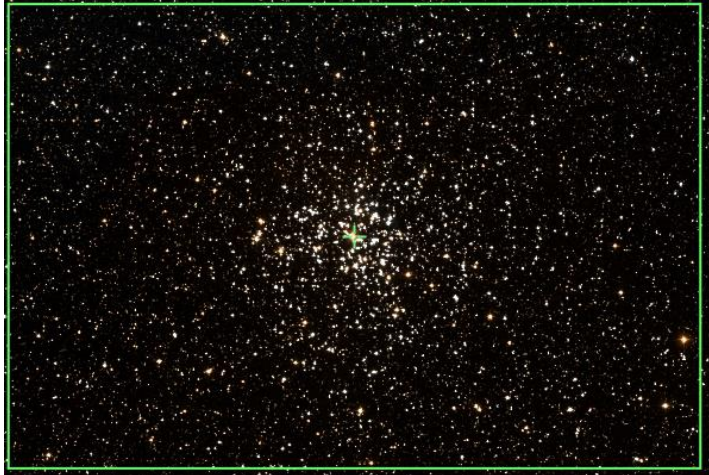
<p><b>Flame and Horsehead Nebula</b> (NGC 2024, B 33) Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Diffuse/Dark Nebula</b> Peak: Constellation: <b>Orion</b> Coordinates: <b>05hr 40' 04"</b> <b>-02° 28' 13"</b></p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: <a href="#">NGC 2024</a>, <a href="#">B 33</a></p> <p>Imaging Window: <b>02:37 – 05:37</b> Transit: <b>02:37   54°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Horsehead and Flame Nebula Constellation: Orion</p> <p style="font-size: x-small; text-align: right;">Image Date: 2023-10-12 Location: Mountain View, TX Config: C11 HyperStar (C11-HD) Exposure Info: 148x300s (Gain: 300) (Offset: 170)</p>
<p><b>Flame Nebula (NGC 2024)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b> Peak: Constellation: <b>Orion</b> Coordinates: <b>05hr 41' 45.843"</b> <b>-01° 49' 31.401"</b></p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: <a href="#">NGC 2024</a></p> <p>Imaging Window: <b>02:37 – 05:37</b> Transit: <b>02:37   54°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Flame Nebula (NGC-2024) Constellation: Orion</p> <p style="font-size: x-small; text-align: right;">Image Date: 2023-10-12 Location: Chandler, AZ Config: C11 HD (Primary Focus) (C11-HD) Exposure Info: 178x300s (Gain: 300) (Offset: 180)</p>
<p><b>Horsehead Nebula (B 33)</b> Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Dark Nebula</b> Peak: Constellation: <b>Orion</b> Coordinates: <b>05hr 40' 59"</b> <b>-02° 31' 47"</b></p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: <a href="#">B 33</a></p> <p>Imaging Window: <b>02:39 – 05:37</b> Transit: <b>04:35   54°</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p>  <p style="font-size: small;">Horsehead Nebula (IC-434) Constellation: Orion</p> <p style="font-size: x-small; text-align: right;">Image Date: 2023-10-12 Location: Chandler, AZ Config: C11 (Primary Focus) (C11-HD) Exposure Info: 208x300s (Gain: 300) (Offset: 170)</p>



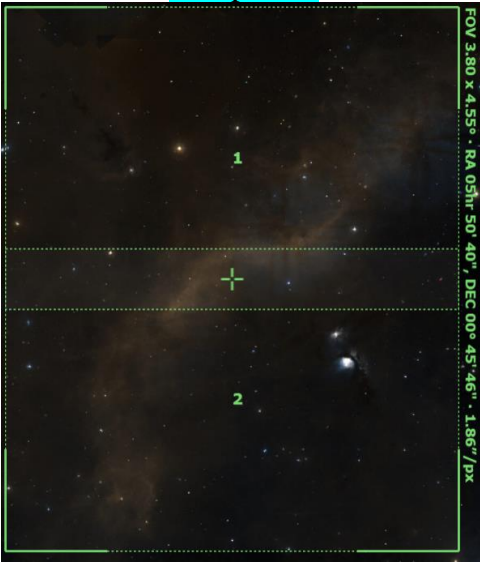
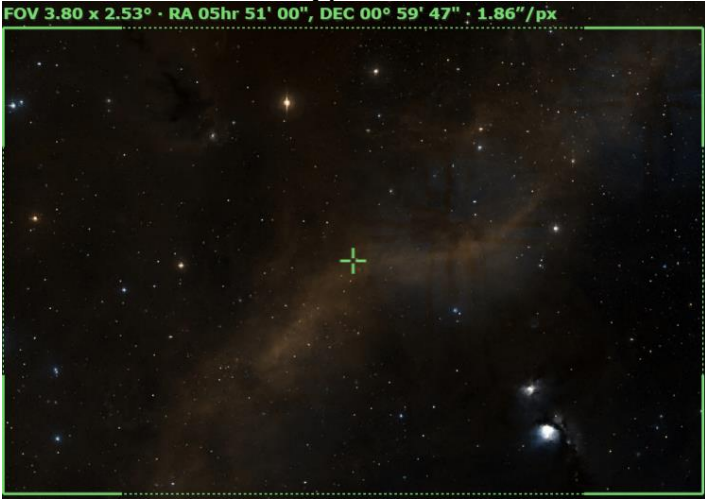
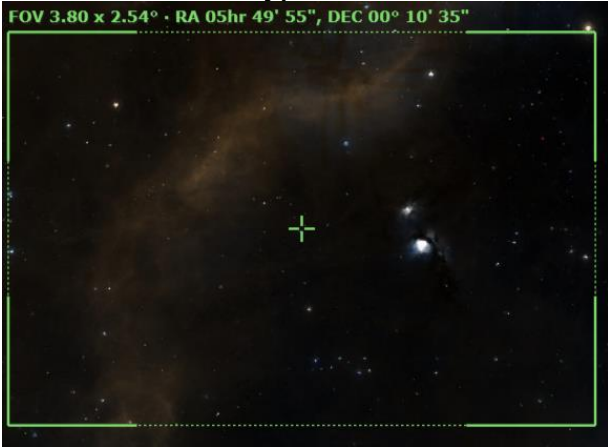
# Prospective Imaging Objects – October 14 2023

<p><b>NGC 2022</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b> Peak: Constellation: <b>Orion</b> Coordinates: <b>05hr 42' 07"</b> <b>09° 04' 55"</b></p> <p>Close Star: SAO-112740 (Bellatrix) Catalog Objects: <a href="#">NGC 2022</a></p> <p>Imaging Window: <b>01:51 – 05:37</b> Transit: <b>04:36   66°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p><small>NGC-2022 Constellation: Orion   RA = 05h 42m 06.6s DEC = +09deg 04' 54.9"   Size = 18.5 x 13.9 arcmin   Orientation: 0.3deg E of N   Pixel scale = 0.277 arcsec/pixel   FL=2900mm James Yoder (Dane)   2023-12-09, 18   Location: Chandler, AZ   Config: C-11 HD OPT Froid Ultra   ZWO6200MC   Exposure Info: 150 frames(2min)   Gain: 100   Offset: 50  </small></p>
<p><b>NGC 1961</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Spiral Galaxy</b> Peak: Constellation: <b>Camelopardalis</b> Coordinates: <b>05hr 43' 27"</b> <b>69° 20' 48"</b></p> <p>Close Star: SAO-40750 (Menkalinan) Catalog Objects: <a href="#">NGC 1961</a></p> <p>Imaging Window: <b>01:20 – 05:37</b> Transit: <b>04:36   54°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p><small>Galaxy Cluster (NGC-1961 et al.) Constellation: Camelopardalis   RA = 05h 43m 13.80s DEC = +69deg 21' 13.100"   Size = 42.3 x 28.3 arcmin   Pixel scale = 0.441 arcsec/pixel James Yoder   2019-01-22 Location: Mesa Verde (Dane), Tinseltown, NJ Config: C-11 HD   QHY12C   Exposure Info: 300 frames(2min)   Gain: 1200   Offset: 100  </small></p>
<p><b>M-78</b> Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Dark Nebula</b> Peak: Constellation: <b>Orion</b></p> <p>Frame 01 RA: <b>05hr 47' 05"</b>DEC: <b>00° 20' 09"</b></p> <p>Frame 02 RA: <b>05hr 47' 05"</b>DEC: <b>-00° 14' 43"</b></p> <p>Close Star: SAO-132346 (Alnilam) Catalog Objects: <a href="#">M 78</a></p> <p>Imaging Window: <b>02:32 – 05:37</b> Transit: <b>04:41</b></p>	<p><b>C-11 HD: <b>Focal Reducer</b> <b>Composite!</b></b></p>  <p><small>FOV 1.04 x 1.28°. RA 05hr 47' 04" DEC 00° 02' 43"</small></p>

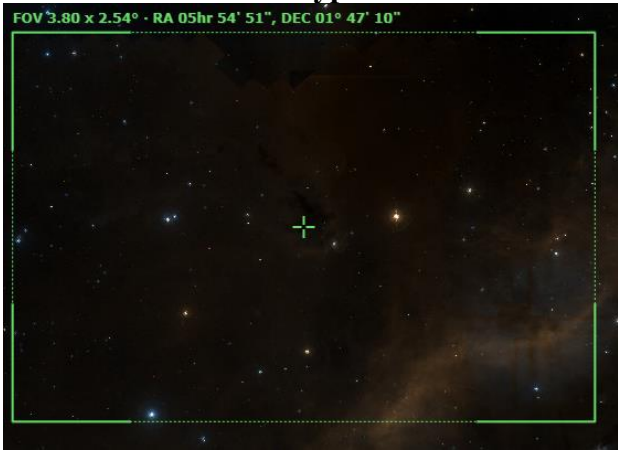

# Prospective Imaging Objects – October 14 2023

<p><b>M-78</b> Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Bright and Dark Nebula</b> Peak: Constellation: <b>Orion</b> Coordinates: <b>05hr 46' 59"</b> <b>00° 08' 59"</b></p> <p>Close Star: SAO-132346 (Alnilam) Catalog Objects: <a href="#">M 78</a></p> <p>Imaging Window: <b>02:32 – 05:37</b> Transit: <b>04:41</b></p>	<p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b></b></p> 
<p><b>M-78</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright and Dark Nebula</b> Peak: Constellation: <b>Orion</b> Coordinates: <b>05hr 47' 03"</b> <b>00° 09' 46"</b></p> <p>Close Star: SAO-132346 (Alnilam) Catalog Objects: <a href="#">M 78</a></p> <p>Imaging Window: <b>02:32 – 05:37</b> Transit: <b>04:41</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Salt and Pepper Cluster(M-37)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b> Constellation: <b>Auriga</b> Coordinates: <b>05hr 52' 18"</b> <b>32° 33' 11"</b></p> <p>Close Star: <b>SAO-77168</b> (Elnath) Catalog Objects: <a href="#">M-37</a>/NGC-2099</p> <p>Imaging Window: <b>01:10 – 05:37</b> Transit: <b>04:46   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

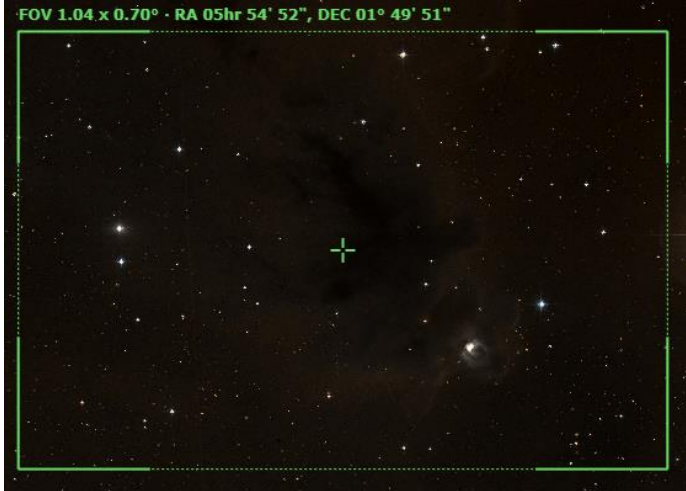


# Prospective Imaging Objects – October 14 2023

<p><b>LDN-1622 Complex</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula &amp; Nebula</b>            Peak:            Constellation: <b>Orion</b></p> <p>Coordinates:            Pane 1: <b>05hr 50' 40", 01° 46' 30"</b>            Pane 2, <b>05hr 50' 40", 00° 14' 57"</b></p> <p>Close Star: SAO-132346 (Alnilam)            Catalog Objects: <a href="#">LDN 1622</a>            Imaging Window: <b>02:31 – 05:37</b>            Transit: <b>04:49   59°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b>  <b>Composite!</b></p> 
<p><b>LDN-1622 (Region 01)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula &amp; Nebula</b>            Peak:            Constellation: <b>Orion</b></p> <p>Coordinates:  <b>05hr 51' 00"</b>  <b>00° 59' 47"</b></p> <p>Close Star: SAO-132346 (Alnilam)            Catalog Objects: <a href="#">LDN 1622</a>            Imaging Window: <b>02:31 – 05:37</b>            Transit: <b>04:49   59°</b></p>	<p style="text-align: center;"><b>HyperStar</b></p> 
<p><b>LDN-1622 (Region 02)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula &amp; Nebula</b>            Peak:            Constellation: <b>Orion</b></p> <p>Coordinates:  <b>05hr 49' 55"</b>  <b>00° 10' 35"</b></p> <p>Close Star: SAO-132346 (Alnilam)            Catalog Objects: <a href="#">LDN 1622</a>            Imaging Window: <b>02:31 – 05:37</b>            Transit: <b>04:49   59°</b></p>	<p style="text-align: center;"><b>HyperStar</b></p> 


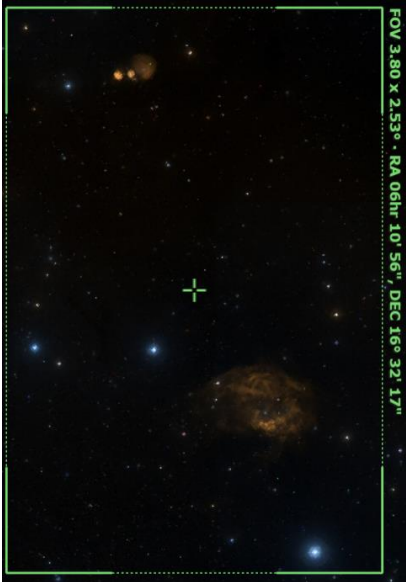
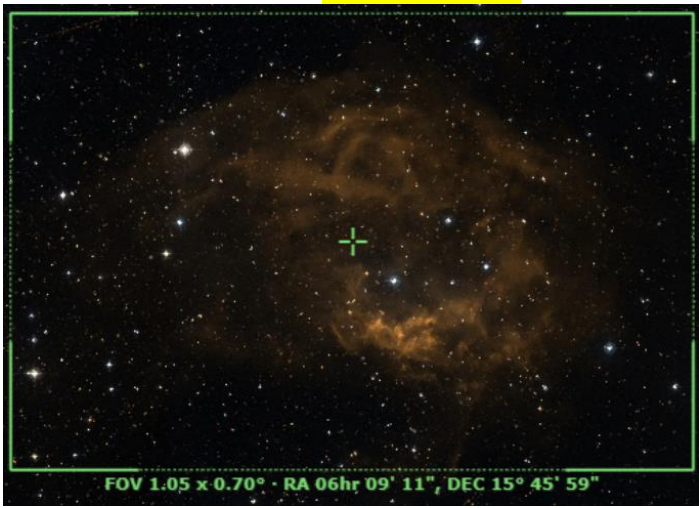
# Prospective Imaging Objects – October 14 2023

<p><b>LDN-1622 (Region 03)</b>          Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright and Dark Nebula</b>          Peak:          Coordinates:  <b>05hr 54' 51"</b>  <b>01° 47' 10"</b></p> <p>Close Star: SAO-112740(Bellatrix)          Catalog Objects: <a href="#">LDN-1622</a></p> <p>Imaging Window: <b>02:31 – 05:37</b>          Transit: <b>04:49   59°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="text-align: center;">FOV 3.80 x 2.54° · RA 05hr 54' 51", DEC 01° 47' 10"</p>
<p><b>LDN 1622</b>          Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula</b>          Peak:          Constellation: <b>Orion</b></p> <p><b>Camera Rotation - 90°</b>          Frame 01          RA: <b>05hr 56' 28"</b>DEC: <b>01° 58' 32"</b>          Frame 02          RA: <b>05hr 54' 08"</b>DEC: <b>01° 58' 35"</b></p> <p>Close Star: SAO-132346 (Anilam)          Catalog Objects: <a href="#">LDN 1622</a></p> <p>Imaging Window: <b>02:31 – 05:37</b>          Transit: <b>04:49</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer Composite!</b></p>  <p style="text-align: center;">FOV 1.04 x 1.28° · RA 05hr 55' 18", DEC 01° 58' 34"</p>

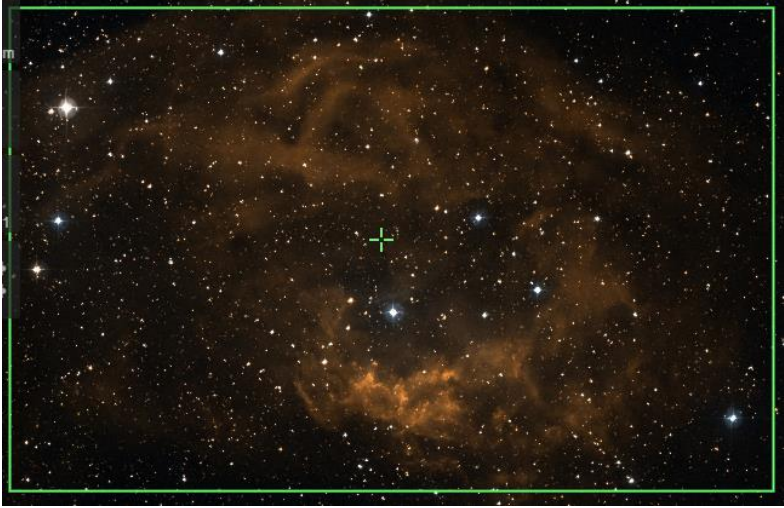

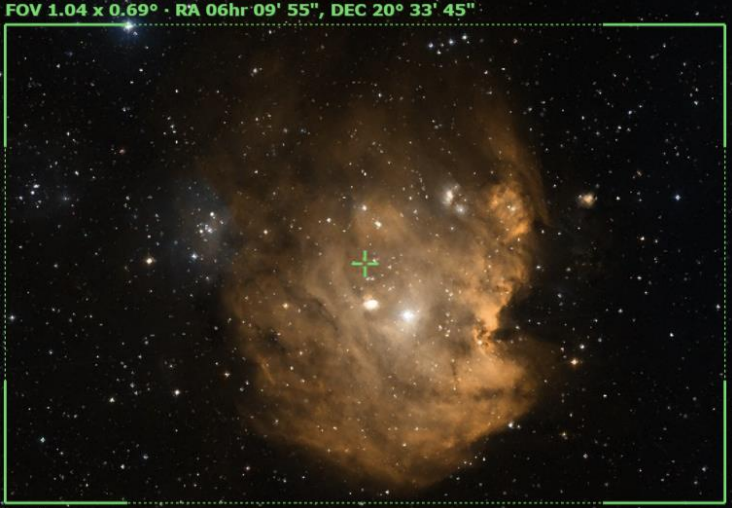
# Prospective Imaging Objects – October 14 2023

<p><b>LDN-1622</b>            Config:  C11HD FR ZWO6200MC </p> <p>Type: <b>Bright and Dark Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 54' 52"</b>  <b>01° 49' 51"</b></p> <p>Close Star: SAO-112740(Bellatrix)            Catalog Objects: <a href="#">LDN-1622</a></p> <p>Imaging Window: <b>02:31 – 05:37</b>            Transit: <b>04:49</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>LDN 1622</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 54' 55"</b>  <b>01° 49' 49"</b></p> <p>Close Star: SAO-132346 (Alnilam)            Catalog Objects: <a href="#">LDN 1622</a></p> <p>Imaging Window: <b>02:31 – 05:37</b>            Transit: <b>04:49</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Angel Nebula (NGC 2170)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright and Dark Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 08' 26"</b>  <b>-06° 25' 24"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">NGC 2170</a></p> <p>Imaging Window: <b>03:32 – 05:37</b>            Transit: <b>05:01</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 




# Prospective Imaging Objects – October 14 2023

<p><b>Angel Nebula (NGC 2170)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright and Dark Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 08' 23"</b>  <b>-06° 19' 23"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">NGC 2170</a></p> <p>Imaging Window: <b>03:32 – 05:37</b>            Transit: <b>05:01</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Angel Nebula (NGC-2170)            Constellation: Monoceros            RA: 06h 08m 23.00s, Dec: -06d 19m 23.00s, Alt: 19.51471, Az: 41.21372, Dist: 0.00000, Obj: E of N, Post: 0.00000, FL: 2000mm            James Webb   Location: Mount Graham (2020 10 11), Chandler (2020 10 12), AZ            Config: C-11 HD, Filter: None, Scale: 0.00136x            Exposure: 10s, 475img/90min, Gain: 2000, 100sec, 100</p>
<p><b>IC-2162 &amp; SH 2-261</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>06hr 10' 56"</b>  <b>16° 32' 17"</b>            Angle: <b>90° East</b></p> <p>Close Star: SAO-78297 (Calix)            Catalog Objects: <a href="#">IC-2162</a> <a href="#">Sh 2-261</a></p> <p>Imaging Window: <b>01:57 – 05:37</b>            Transit: <b>05:07   72°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">FOV 3.80 x 2.53° - RA 06hr 10' 56" DEC 16° 32' 17"</p>
<p><b>Lower's Nebula (Sh 2-261)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>06hr 09' 11"</b>  <b>15° 45' 59"</b></p> <p>Close Star: <b>SAO-78297</b> (Calix)            Catalog Objects: <a href="#">Sh 2-261</a></p> <p>Imaging Window: <b>01:57 – 05:37</b>            Transit: <b>05:07   72°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small;">FOV 1.05 x 0.70° - RA 06hr 09' 11" DEC 15° 45' 59"</p>

# Prospective Imaging Objects – October 14 2023

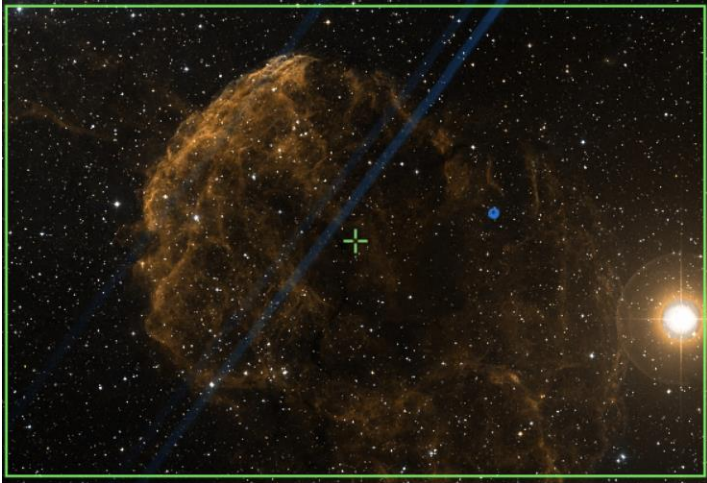


<p><b>Lower's Nebula (Sh 2-261)</b>          Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>          Peak:          Constellation: <b>Orion</b>          Coordinates:  <b>06hr 08' 59"</b>  <b>15° 46' 39"</b></p> <p>Close Star: <b>SAO-78297</b> (Calix)          Catalog Objects: <a href="#">Sh 2-261</a></p> <p>Imaging Window: <b>01:57 – 05:37</b>          Transit: <b>05:07   72°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-35, NGC-2158</b>          Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Open Cluster Pair</b>          Constellation: <b>Gemini</b>          Coordinates:  <b>06hr 08' 39"</b>  <b>24° 14' 48"</b></p> <p>Close Star: <b>SAO-95912</b> (Alhena)          Catalog Objects: <a href="#">M-35</a>/NGC-2168,          NGC-2158</p> <p>Imaging Window: <b>01:40 – 05:37</b>          Transit: <b>05:03   81°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Monkey Head (NGC-2174)</b>          Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>          Peak:          Constellation: <b>Orion</b>          Coordinates:  <b>06hr 09' 50"</b>  <b>20° 29' 50"</b></p> <p>Close Star: SAO-78297 (Calix)          Catalog Objects: <a href="#">NGC 2174</a>/Sh 2-252</p> <p>Imaging Window: <b>01:48 – 05:37</b>          Transit: <b>05:03   77°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> <p style="font-size: small; color: green;">FOV 1.04 x 0.69° · RA 06hr 09' 55", DEC 20° 33' 45"</p> 

# Prospective Imaging Objects – October 14 2023




<p><b>Monkey Head (NGC 2174)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>06hr 09' 50"</b>  <b>20° 29' 50"</b></p> <p>Close Star: SAO-78297 (Calix)            Catalog Objects: <a href="#">NGC 2174</a>/Sh 2-252</p> <p>Imaging Window: <b>01:48 – 05:37</b>            Transit: <b>05:03   77°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Monkey Head Nebula (NGC-2174)            Constellation: Orion            RA = 06h 09m 49.31s, DEC = +20deg 29' 52.00" Size = 31.1 x 25.6 arcmin   Pixel scale = 0.446 arcsec/pixel   FL = 2.730mm            James VanDer... 2023-08-08            Location: Chandler, AZ            Config: C-11 HD   Astrotrac C11A-C20   QHY128C            Exposure Info: 27 frames @ 5min   Gain: 3200   Offset: 100</p>
<p><b>IC 2162</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>06hr 12' 25"</b>  <b>17° 59' 26"</b></p> <p>Close Star: SAO-78297 (Calix)            Catalog Objects: <a href="#">IC 2162</a></p> <p>Imaging Window: <b>01:57 – 05:37</b>            Transit: <b>05:07   75°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Bright Nebula IC-2162            Constellation: Orion            RA = 06h 12m 24.60s, DEC = +17deg 59' 18.237" Size = 42.3 x 23.85 arcmin   Pixel scale = 0.441 arcsec/pixel            James VanDer... 2023-08-07            Location: Chandler, AZ            Config: C-11 HD   Astrotrac C11A-C20   QHY128C            Exposure Info: 27 frames @ 5min   Gain: 3200   Offset: 100</p>
<p><b>Jellyfish Nebula (IC 443)</b>            Config: <b>C11-HD   HS  </b>  <b>ZWO6200MC</b></p> <p>Type: <b>Supernova Remnant</b>            Peak:            Constellation: <b>Gemini</b>            Coordinates:  <b>06hr 19' 56"</b>  <b>23° 06' 17"</b></p> <p>Close Star: SAO-78297 (Calix)            Catalog Objects: <a href="#">IC 443</a></p> <p>Imaging Window: <b>01:51 – 05:37</b>            Transit: <b>05:10   79°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Jellyfish Nebula (IC-443)            Constellation: Gemini            RA = 06h 19m 23.0s, DEC = +23deg 06' 17.0" Orientation: M6g E of N   Pixel scale = 2.28 arcsec/pixel   FL = 540mm            James VanDer... Date(s) 2020-10-21   Location: Chandler, AZ            Config: C-11 HD   HyperStar v4   Astrotrac C11A-C20   QHY128C            Exposure Info: 51 frames @ 3min   Gain: 3200   Offset: 100</p>



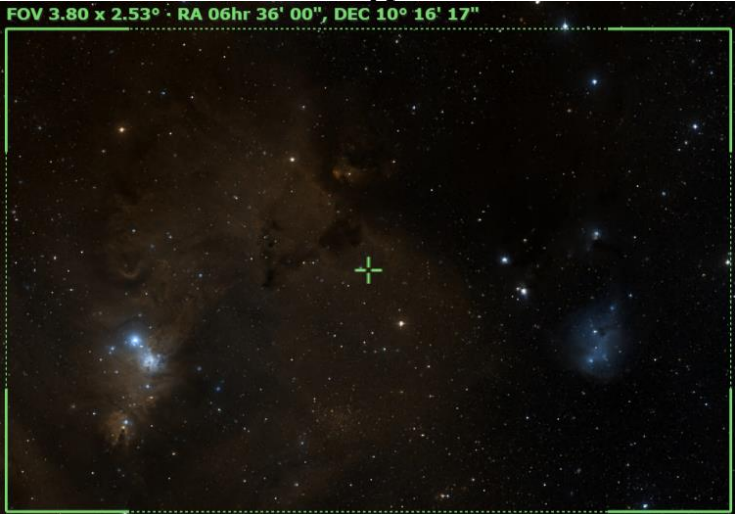
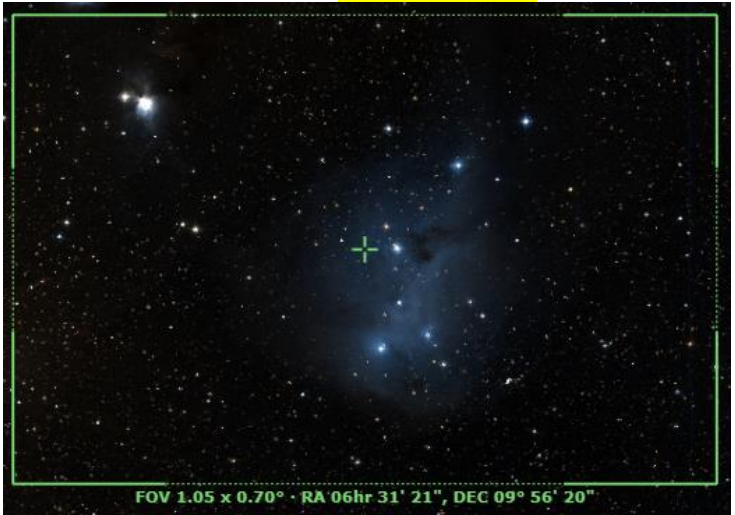

# Prospective Imaging Objects – October 14 2023

<p><b>Jellyfish Nebula (IC 443)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Supernova Remnant</b>            Peak:            Constellation: <b>Gemini</b>            Coordinates:  <b>06hr 16' 59"</b>  <b>22° 37' 29"</b></p> <p>Close Star: SAO-78297 (Calix)            Catalog Objects: <a href="#">IC 443</a></p> <p>Imaging Window: <b>01:51 – 05:37</b>            Transit: <b>05:10   79°</b></p>	<p>C11-HD: <b>Focal Reducer</b></p> 
<p><b>Jellyfish Nebula (IC 443)</b>            Config:  C11 LF ZWO6200MC </p> <p>Type: <b>Supernova Remnant</b>            Peak:            Constellation: <b>Gemini</b>            Coordinates:  <b>06hr 16' 51"</b>  <b>22° 36' 34"</b></p> <p>Close Star: SAO-78297 (Calix)            Catalog Objects: <a href="#">IC 443</a></p> <p>Imaging Window: <b>01:51 – 05:37</b>            Transit: <b>05:10   79°</b></p>	<p>Primary Focus</p>  <p><small>Jellyfish nebula (IC 443)            Constellation: Gemini</small></p> <p><small>Image: Orion 30kg            Location: Canada, AZ            Config:  C11 Systems LF Camera OPT TRIAS Filter QHY13C             Exposure: 100 10000000 Gain: 1000 Offset: 100</small></p>
<p><b>Sh 2-249</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Gemini</b>            Coordinates:  <b>06hr 19' 15"</b>  <b>23° 24' 58"</b></p> <p>Close Star: SAO-78297 (Calix)            Catalog Objects: <a href="#">Sh 2-249</a></p> <p>Imaging Window: <b>01:52 – 05:37</b>            Transit: <b>05:13   80°</b></p>	<p>C-11 HD: <b>Primary Focus</b></p> 


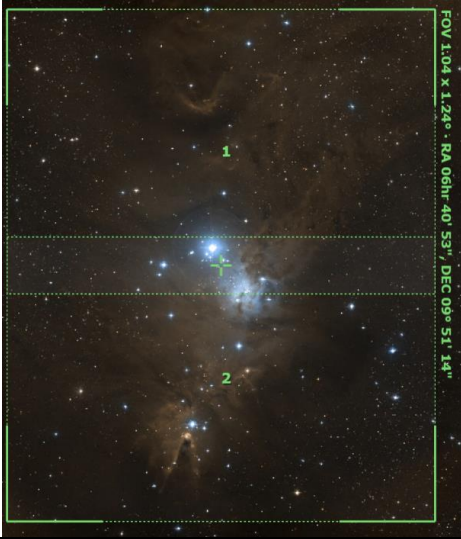

# Prospective Imaging Objects – October 14 2023

<p><b>Rosette Nebula (NGC 2237)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b>            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 31' 53.37"</b>  <b>04° 50' 45.29"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">NGC 2237</a> ,NGC-2244</p> <p>Imaging Window: <b>02:54 – 05:37</b>            Transit: <b>05:25   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Rosette Nebula (NGC 2237, 2244)   1600iso   15min   2023-08-08 21:45:45</p>
<p><b>Rosette Nebula (NGC 2237)</b>            Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 32' 01"</b>  <b>04° 59' 28"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">NGC 2237</a></p> <p>Imaging Window: <b>02:54 – 05:37</b>            Transit: <b>05:25   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Rosette Nebula (NGC 2237)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 32' 02"</b>  <b>04° 58' 14"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">NGC 2237</a></p> <p>Imaging Window: <b>02:54 – 05:37</b>            Transit: <b>05:25   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 



# Prospective Imaging Objects – October 14 2023

<p><b>IC-2169</b>            Config: C11   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 36' 00"</b>  <b>10° 16' 17"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">IC 2169</a></p> <p>Imaging Window: <b>02:38 – 05:37</b>            Transit: <b>05:25   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>IC 2169</b>            Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 31' 21"</b>  <b>09° 56' 20"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">IC 2169</a></p> <p>Imaging Window: <b>02:38 – 05:37</b>            Transit: <b>05:25   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>IC 2169</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 31' 36"</b>  <b>09° 58' 16"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">IC 2169</a></p> <p>Imaging Window: <b>02:38 – 05:37</b>            Transit: <b>05:25   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – October 14 2023

<p><b>Hubble's Variable Nebula</b> (NGC 2261)          Config:  C11HD ZWO6200MC </p> <p>Type: <b>Reflection Nebula</b>          Constellation: <b>Monoceros</b>          Coordinates:  <b>06hr 39' 12"</b>  <b>08° 45' 00"</b></p> <p>Close Star: SAO-95912 (Alhena)          Catalog Objects: <a href="#">NGC 2261</a></p> <p>Imaging Window: <b>02:50 – 05:37</b>          Transit: <b>05:33   65°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Christmas Tree &amp; Cone</b>          Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Coordinates:          Pane 1: <b>06hr 40' 53"</b>, <b>10° 07' 47"</b>          Pane 2, <b>06hr 40' 53"</b>, <b>09° 34' 40"</b></p> <p>Close Star: SAO-95912 (Alhena)          Catalog Objects: <a href="#">NGC 2264</a>/Sh 2-273</p> <p>Imaging Window: <b>02:48 – 05:37</b>          Transit: <b>05:35   67°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer Composite!</b></p> 
<p><b>Christmas Tree &amp; Cone</b>          Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>          Peak:          Constellation: <b>Monoceros</b>          Coordinates:  <b>06hr 40' 47"</b>  <b>09° 42' 40"</b>          Angle: <b>90° East</b></p> <p>Close Star: SAO-95912 (Alhena)          Catalog Objects: <a href="#">NGC 2264</a>/Sh 2-273</p> <p>Imaging Window: <b>02:48 – 05:37</b>          Transit: <b>05:35   67°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 

# Prospective Imaging Objects – October 14 2023

<p><b>Christmas Tree Cluster</b> (NGC 2264) Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b> Peak: Constellation: <b>Monoceros</b> Coordinates: <b>06hr 40' 58.74"</b> <b>09° 53' 32.69"</b></p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: <a href="#">NGC 2264</a>/Sh 2-273</p> <p>Imaging Window: <b>02:48 – 05:37</b> Transit: <b>05:35   67°</b></p>	<p>Primary Focus</p>  <p>NGC 2264: Christmas Tree Cluster <span style="float: right;">James Mader 2015.01.18</span></p>
<p><b>Cone Nebula-1</b> (NGC 2264) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b> Peak: Constellation: <b>Monoceros</b> Coordinates: <b>06hr 41' 07"</b> <b>09° 27' 52"</b></p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: <a href="#">NGC 2264</a></p> <p>Imaging Window: <b>02:48 – 05:37</b> Transit: <b>05:35   67°</b></p>	<p>C-11 HD: Primary Focus</p> 

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Page

# Prospective Imaging Objects – October 14 2023

## Imaging Summary October 14, 2023

Astronomical Dusk = 07:17

Astronomical Dawn = 05:37

### HyperStar: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Nebula	Nebula	NGC-6914	07:17 – 11:07	07:20	03	<b>Composite2!</b> Cygnus: Bright Nebula
HyperStar	Nebula	Nebula	NGC-6914	07:17 – 11:07	07:20	03	Cygnus: Bright Nebula
HyperStar	Nebula	Nebula	IC-1318	07:17 – 11:07	07:21	04	Cygnus: Butterfly Nebula
HyperStar	Nebula	Nebula	IC-5070	07:17 – 11:35	07:46	06	<b>Composite2!</b> Cygnus: Pelican & N America Nebula
HyperStar	Nebula	Nebula	IC-5070	07:17 – 11:35	07:46	06	Cygnus: Pelican & N America Nebula
HyperStar	Nebula	Nebula	NGC-6960	07:17 – 11:23	07:48	07	<b>Composite2!</b> Cygnus: Veil Nebula
HyperStar	Nebula	Nebula	NGC-6960	07:17 – 11:23	07:48	07	Cygnus: Veil Nebula
HyperStar	Nebula	Nebula	IC-1396	07:17 – 12:22	08:334	13	Cepheus: Elephant Trunk
HyperStar	DN, Nebula	Nebula	B-168	07:17 – 12:34	08:44	16	Cygnus: Dark Cocoon
HyperStar	Nebula	Nebula	SH2-132	07:17 – 01:03	09:14	18	Cepheus: Bright Nebula
HyperStar	Nebula	Nebula	SH2-155	07:17 – 01:32	09:52	21	Cepheus: Cave Nebula
HyperStar	Nebula	Nebula	SH2-157	07:17 – 01:56	10:11	22	Cassiopeia: Lobster Claw and Bubble Nebula
HyperStar	Nebula	Nebula	NGC-7822	07:32 – 02:22	10:57	25	<b>Composite2!</b> Cepheus: Nebula
HyperStar	Nebula	Nebula	NGC-7822	07:32 – 02:22	10:57	26	Cepheus: Nebula
HyperStar	Nebula	Neb, OC	NGC-457	08:27 – 04:01	12:14	34	Cassiopeia: Open Cluster NGC-457 & Dolphin Neb
HyperStar	Nebula	Nebula	IC-1848, 1805	10:02 – 05:30	01:46	39	<b>Composite4!</b> Cassiopeia: Heart and Soul Nebulas
HyperStar	Nebula	Nebula	IC-1805	09:45 – 05:10	01:27	39	Cassiopeia: Heart Nebula
HyperStar	Nebula	Nebula	IC-1848	10:02 – 05:30	01:46	42	Cassiopeia: Soul Nebula
HyperStar	Nebula	Nebula	NGC-1499	11:16 – 05:37	02:57	45	Perseus: California Nebula
HyperStar	Nebula	Nebula	IC-405	12:32 – 05:37	04:10	49	Auriga: Flaming Star Nebula
HyperStar	Nebula	Nebula	M-42	02:52 – 05:37	04:29	53	<b>Composite6!</b> Orion: Orion Complex
HyperStar	Nebula	Nebula	M-42	02:52 – 05:37	04:29	53	Orion: Orion Nebula
HyperStar	Nebula	Nebula	SH2-240	01:04 – 05:37	04:33	55	<b>Composite2!</b> Taurus: Simeis 147 Bubble
HyperStar	Nebula	Nebula	SH2-240	01:04 – 05:37	04:33	55	Taurus: Simeis 147 Bubble

## Prospective Imaging Objects – October 14 2023

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Nebula	Nebula	NGC-2024, B33	02:37 – 05:37	02:37	56	Orion: Flame and Horsehead Nebula
HyperStar	Nebula	Nebula	LDN-1622	02:31 – 05:37	04:49	59	Composite2! Orion: Band Complex
HyperStar	Nebula	Nebula	LDN-1622	02:31 – 05:37	04:49	59	Orion: Band Complex
HyperStar	Nebula	Nebula	LDN-1622 R1	02:31 – 05:37	04:49	59	Orion: Band Region 1
HyperStar	Nebula	Nebula	LDN-1622 R2	02:31 – 05:37	04:49	59	Orion: Band Region 2
HyperStar	Nebula	Nebula	LDN-1622 R3	02:31 – 05:37	04:49	59	Orion: Band Region 3
HyperStar	Nebula	Nebula	IC-2162, SH2-261	01:57 – 05:37	05:07	62	Rotation Orion: Interesting Composition
HyperStar	Nebula	Nebula	IC-443	01:51 – 05:37	05:10	64	Gemini: Jellyfish Nebula
HyperStar	Nebula	Nebula	NGC-2237	02:54 – 05:37	05:25	66	Monoceros: Rosette Nebula
HyperStar	Nebula	Nebula	IC-2169	02:38 – 05:37	05:25	67	Monoceros: Bright Nebula, & Dark Nebula Region



# Prospective Imaging Objects – October 14 2023

## Imaging Summary October 14, 2023

Astronomical Dusk = 07:17

Astronomical Dawn = 05:37

### HyperStar: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Broad Spectrum	Dark Neb	LDN-904	07:17 – 11:33	07:48	07	Cygnus: Northern Coal Sack (LDN-904)
HyperStar	Broad Spectrum	Dark Neb	B-168	07:17 – 01:32	09:52	18	Cepheus: Wolf's Cave
HyperStar	Broad Spectrum	Ref Neb	NGC-7686	07:17 – 02:15	10:25	24	Andromeda: Blue Match Nebula
HyperStar	Broad Spectrum	Galaxies	NGC-147	07:38 – 03:18	11:28	27	Cassiopeia: Galaxy Pair NGC-147 & NGC-185
HyperStar	Broad Spectrum	Galaxy	M-31	07:51 – 03:24	11:37	29	Andromeda: The Great Andromeda Galaxy
HyperStar	Broad Spectrum	Galaxy	M-31	07:51 – 03:24	11:37	29	<b>Rotation!</b> Andromeda: Andromeda Galaxy
HyperStar	Broad Spectrum	Gal & GC	NGC-288, 253	*10:03-01:28	11:48	31	Sculptor: Galaxy and Globular pair
HyperStar	Broad Spectrum	Ref Neb	IC-59	08:09 – 03:35	11:52	33	Cassiopeia: Bright Nebula
HyperStar	Broad Spectrum	Galaxy	M-33	08:55 – 04:02	12:28	36	Triangulum: Triangulum Galaxy
HyperStar	Broad Spectrum	OC	NGC-869, 884	09:29 – 05:04	01:17	38	Perseus: Hand chi Persei
HyperStar	Broad Spectrum	Refl Neb	M-45	11:19 – 05:37	02:41	44	Taurus: Pleiades Open Cluster
HyperStar	Broad Spectrum	OC	C-41	12:17 – 05:37	03:21	46	Taurus: Hyades Star Cluster
HyperStar	Broad Spectrum	DN	IC-2118	*12:49-05:37	03:59	47	Eridanus: Witch Head Nebula
HyperStar	Broad Spectrum	BN	NGC-1788	02:11 – 05:37	04:01	48	Orion: Foxface Nebula

# Prospective Imaging Objects – October 14 2023

## Imaging Summary October 14, 2023

Astronomical Dusk = 07:17

Astronomical Dawn = 05:37

### Focal Reducer: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Nebula	Nebula	NGC-6914 Reg	07:17 – 11:07	07:20	04	Cygnus: NGC-6914 Region
Focal Reducer	Nebula	Nebula	IC-1318	07:17 – 11:07	07:21	05	Cygnus: Butterfly Nebula
Focal Reducer	Nebula	Nebula	NGC-6960	07:17 – 11:23	07:48	08	<b>Composite 2!</b> Cygnus: Witch's Broom
Focal Reducer	Nebula	Nebula	NGC-6960	07:17 – 11:23	07:48	08	Cygnus: Pickering's Triangular Wisp
Focal Reducer	Nebula	Nebula	NGC-6992	07:17 – 01:27	07:52	09	<b>Composite 2!</b> Cygnus: Network Nebula
Focal Reducer	Nebula	Nebula	NGC-7023	07:17 – 11:19	07:57	10	Cepheus: Iris Nebula
Focal Reducer	Nebula	Nebula	IC-1396-1	07:17 – 12:22	08:34	14	Cepheus: Bright & Dark Nebula Region-1
Focal Reducer	Nebula	Nebula	IC-1396-2	07:17 – 12:22	08:34	14	Cepheus: Bright & Dark Nebula Region-2
Focal Reducer	Nebula	Nebula	IC-5146	07:17 – 12:39	08:49	16	Cygnus: Cocoon Nebula
Focal Reducer	Nebula	Nebula	SH2-132	07:17 – 01:03	09:14	19	Cepheus: Bright Nebula
Focal Reducer	Nebula	Nebula	SH2-142	07:17 – 01:29	09:40	20	Cepheus: Wizard Nebula
Focal Reducer	Nebula	Nebula	SH2-155	07:17 – 01:32	09:52	21	Cepheus: Cave Nebula
Focal Reducer	Nebula	Nebula	SH2-157	07:17 – 01:56	10:11	23	Cassiopeia: Lobster Claw
Focal Reducer	Nebula	Nebula	NGC-7822	07:32 – 02:22	10:57	26	Cepheus: Diffuse Nebula
Focal Reducer	Nebula	Nebula	NGC-246, 255	*08:57-02:23	11:42	30	Cetus: Planetary Nebula & 2 Galaxies
Focal Reducer	Nebula	Nebula	NGC-281	08:09 – 03:35	11:52	32	Cassiopeia: Pack Man Nebula
Focal Reducer	Nebula	Nebula	IC-1795	09:39 – 05:02	01:20	39	Cassiopeia: Fish Head Nebula
Focal Reducer	Nebula	Nebula	IC-1805	09:45 – 05:10	01:27	40	Cassiopeia: Heart Nebula
Focal Reducer	Nebula	Nebula	IC-405	12:32 – 05:37	04:10	49	Auriga: Flaming Star Nebula
Focal Reducer	Nebula	Nebula	IC-410	12:39 – 05:37	04:17	50	Auriga: Tadpoles
Focal Reducer	Nebula	Nebula	NGC1055,1931	12:43 – 05:37	04:22	51	<b>Composit2! Rotation!</b> Auriga: Spider & Fly
Focal Reducer	Nebula	Nebula	NGC-1977	02:49 – 05:37	04:29	54	Orion: Running Man Nebula
Focal Reducer	Nebula	Nebula	M-78	02:38 – 05:37	04:41	57	<b>Composit2!</b> Orion: Dark Nebula Region
Focal Reducer	Nebula	Nebula	M-78	02:38 – 05:37	04:41	58	Orion: Dark Nebula Region

## Prospective Imaging Objects – October 14 2023

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Nebula	Nebula	NGC-2170	03:32 – 05:37	05:01	61	Monoceros: Angel Nebula
Focal Reducer	Nebula	Nebula	SH 2-261	01:57 – 05:37	05:07	62	Orion: Lower's Nebula
Focal Reducer	Nebula	Nebula	NGC-2174	01:48 – 05:37	05:03	63	Orion: Monkey Head Nebula
Focal Reducer	Nebula	Nebula	IC-443	01:51 – 05:37	05:10	65	Gemini: Jellyfish Nebula
Focal Reducer	Nebula	Nebula	NGC-2237	02:54 - 05:37	05:25	66	Monoceros: Roset Nebula Core
Focal Reducer	Nebula	Nebula	IC-2169	02:38 – 05:37	05:25	67	Monoceros: Blue Nebula
Focal Reducer	Nebula	Nebula	NGC-2264	02:48 – 05:37	05:35	68	<b>Composite2!</b> Monoceros: Xmas Tree & Cone
Focal Reducer	Nebula	Nebula	NGC-2264	02:48 – 05:37	05:35	68	<b>Rotation!</b> Monoceros: Xmas Tree & Cone

# Prospective Imaging Objects – October 14 2023

## Imaging Summary October 14, 2023

Astronomical Dusk = 07:17

Astronomical Dawn = 05:37

### Focal Reducer: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Broad Spectrum	Open Cl	M-39	07:17 – 12:17	08:27	12	Cygnus: Open Cluster M-39
Focal Reducer	Broad Spectrum	Dark Neb	LDN-1235	08:21 – 01:47	11:04	17	Cepheus: Dark Shark
Focal Reducer	Broad Spectrum	Ref Neb	VdB-152	07:17 – 01:32	09:52	18	<b>Rotation!</b> Cepheus: Wolf's Cave
Focal Reducer	Broad Spectrum	Galaxies	NGC-7331 et. El.	07:17 – 01:09	09:31	19	<b>Rotation!</b> Pegasus: Stephan's Quintet & NGC 7331
Focal Reducer	Broad Spectrum	Galaxies	NGC-7619 et. El.	07:34 – 12:57	10:15	23	Pegasus: Pegasus Cluster of Galaxies
Focal Reducer	Broad Spectrum	Galaxies	NGC-147, 185	07:38 – 03:18	11:28	28	<b>Composite 2!</b> Cassiopeia: Galaxy Pair
Focal Reducer	Broad Spectrum	Open Cl	NGC-188	*07:28-03:52	11:42	32	Cepheus: Open Star Cluster NGC-188
Focal Reducer	Broad Spectrum	Galaxy	M-33	08:55 – 04:02	12:28	36	<b>Rotation!</b> Triangulum: Triangulum Galaxy
Focal Reducer	Broad Spectrum	Galaxies	M-77, NGC-1055	11:26 – 03:47	01:36	40	Cetus: Galaxy Pair
Focal Reducer	Broad Spectrum	DN/RN	NGC-1788	02:11 – 05:37	04:01	48	Orion: Foxface Nebula
Focal Reducer	Broad Spectrum	DN	LDN-1622	02:31 – 05:37	04:49	60	<b>Composite2! Rotation</b> Orion: Dark Nebula Region
Focal Reducer	Broad Spectrum	DN	LDN-1622	02:31 – 05:37	04:49	60	Orion: Dark Nebula Region
Focal Reducer	Broad Spectrum	OC	M-35, NGC-2158	01:40 – 05:37	05:03	63	Gemini: Open Cluster Pair

# Prospective Imaging Objects – October 14 2023

## Imaging Summary October 14, 2023

Astronomical Dusk = 07:17

Astronomical Dawn = 05:37

### Primary Focus: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	PN	NGC-6894	07:17 – 10:45	07:12	02	Cygnus: PK 69-2.1 Small PN
Primary Focus	Nebula	PN	IC-4997	07:17 – 10:22	07:16	02	Saitta: PK 58-10.1 Small PN
Primary Focus	Nebula	PN	NGC-6905	07:17 – 10:32	07:18	02	Delphinus: Blue Flash Nebula Small PN
Primary Focus	Nebula	Nebula	NGC-6914 Reg	07:17 – 11:07	07:20	04	Cygnus: NGC-6914 Region
Primary Focus	Nebula	Nebula	IC-1318	07:17 – 11:07	07:21	05	Cygnus: Butterfly Nebula
Primary Focus	Nebula	PN	NGC-7008	07:17 – 11:46	07:56	10	Cygnus: Fetus Nebula Med PN
Primary Focus	Nebula	Nebula	NGC-7023	07:17 – 11:19	07:57	10	Cepheus: Iris Nebula
Primary Focus	Nebula	PN	NGC-7009	*07:17-10:48	08:00	11	Aquarius: Saturn Nebula
Primary Focus	Nebula	PN	NGC-7026	07:17 – 11:52	08:02	11	Cygnus: Small Planetary Nebula
Primary Focus	Nebula	PN	NGC-7027	07:17 – 11:49	08:02	11	Cygnus: Small Planetary Nebula
Primary Focus	Nebula	PN	NGC-7048	07:17 – 11:59	08:10	12	Cygnus: Small PN PK 88-1.1
Primary Focus	Nebula	PN	NGC-7094	07:17 – 11:28	08:32	13	Pegasus: Small/Med Planetary
Primary Focus	Nebula	DN & BN	IC-1396-1	07:17 – 12:28	08:34	14	Cepheus: Elephant Trunk Region of Interest
Primary Focus	Nebula	Nebula	IC-1396-2	07:17 – 12:22	08:34	15	Cepheus: Elephant Trunk Region of Interest
Primary Focus	Nebula	Nebula	IC-1396-3	07:17 – 12:22	08:34	15	Cepheus: Elephant Trunk Region of Interest
Primary Focus	Nebula	PN	NGC-7139	07:17 – 12:19	08:41	16	Cepheus: Med Planetary Nebula
Primary Focus	Nebula	Nebula	IC-5146	07:17 – 12:39	08:49	17	Cygnus: Cocoon Nebula (IC-5146)
Primary Focus	Nebula	PN	NGC-7293	*07:39-11:15	09:25	17	Aquarius: Helix Nebula
Primary Focus	Nebula	Nebula	SH2-132	07:17 – 01:03	09:14	19	Cepheus: Bright Nebula
Primary Focus	Nebula	Nebula	SH2-142	07:17 – 01:28	09:40	21	Cepheus: Wizard Nebula
Primary Focus	Nebula	Nebula	SH2-155	07:17 – 01:32	09:52	22	Cepheus: Cave Nebula
Primary Focus	Nebula	Nebula	NGC-7635	07:17 – 01:58	10:15	23	Cepheus: Bubble Nebula
Primary Focus	Nebula	Nebula	NGC-7822	07:32 – 02:22	10:57	26	Cepheus: Emission Nebula
Primary Focus	Nebula	PN	NGC-40	08:16 – 02:00	11:08	27	Cepheus: Bow-Tie Nebula

# Prospective Imaging Objects – October 14 2023

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	PN	NGC-246	*08:57-02:23	11:42	30	Cetus: Skull Nebula
Primary Focus	Nebula	Nebula	IC-59	08:09 – 03:35	11:52	33	Cassiopeia: Reflection Nebula
Primary Focus	Nebula	Nebula	SH2-188	08:38 – 04:12	12:25	35	Cassiopeia: Firefox Nebula
Primary Focus	Nebula	PN	M-76	08:46 – 04:27	12:37	37	Perseus: Little Dumbbell Nebula
Primary Focus	Nebula	Nebula	IC-1805	09:45 – 05:10	01:27	40	Cassiopeia: Heart Nebula
Primary Focus	Nebula	Nebula	IC-1848	10:02 – 05:30	01:46	42	Cassiopeia: Soul Nebula
Primary Focus	Nebula	Nebula	NGC-1333	10:49 – 05:37	02:23	43	Perseus: Reflection Nebula
Primary Focus	Nebula	Nebula	NGC-1360	*02:33-04:14	02:28	43	Fornax: Robins Egg Nebula
Primary Focus	Nebula	Nebula	IC-348	11:03 – 05:37	02:39	43	Perseus: Reflection Nebula
Primary Focus	Nebula	Nebula	NGC-1501	11:18 – 05:37	03:01	45	Camelopardalis: Oyster Nebula
Primary Focus	Nebula	Nebula	NGC-1514	11:30 – 05:37	03:03	45	Taurus: Crystal Ball Nebula
Primary Focus	Nebula	Nebula	NGC-1535	*12:27-05:37	03:08	46	Eridanus: Cleopatra's Eye
Primary Focus	Nebula	Nebula	NGC-1555	12:03 – 05:37	03:16	46	Taurus: Hind's Variable Nebula
Primary Focus	Nebula	Nebula	NGC-1579	11:44 – 05:37	03:24	47	Perseus: Trifid of the North
Primary Focus	Nebula	Nebula	IC-405	12:32 – 05:37	04:10	49	Auriga: Flaming Star Nebula
Primary Focus	Nebula	Nebula	IC-410	12:39 – 05:37	04:17	50	Auriga: Tadpoles
Primary Focus	Nebula	Nebula	IC-417	12:43 – 05:37	04:22	51	Auriga: The Spider
Primary Focus	Nebula	Nebula	NGC-1931	12:47 – 05:37	04:25	52	Auriga: The Fly
Primary Focus	Nebula	Nebula	M-1	01:10 – 05:37	04:28	52	Taurus: Crab Nebula
Primary Focus	Nebula	Nebula	M-42	02:53 – 05:37	04:29	54	Orion: The Orion Nebula
Primary Focus	Nebula	Nebula	NGC-2024	02:37 – 05:37	02:37	56	Orion: Flame Nebula
Primary Focus	Nebula	Nebula	B-33	02:39 – 05:37	04:35	56	Orion: Horsehead Nebula
Primary Focus	Nebula	Nebula	NGC-2022	01:51 – 05:37	04:36	57	Orion: Planetary Nebula
Primary Focus	Nebula	Nebula	M-78	02:32 – 05:37	04:41	58	Orion: Bright and Dark Nebula
Primary Focus	Nebula	Nebula	NGC-2170	03:32 – 05:37	05:01	62	Monoceros: Angel Nebula
Primary Focus	Nebula	Nebula	SH 2-261	01:57 – 05:37	05:07	63	Orion: Lower's Nebula
Primary Focus	Nebula	Nebula	NGC-2174	01:48 – 05:37	05:03	64	Orion: Monkey Head Nebula
Primary Focus	Nebula	Nebula	IC-2162	01:57 – 05:37	05:07	64	Orion: Bright Nebula
Primary Focus	Nebula	Nebula	IC-443	01:51 – 05:37	05:10	65	Gemini: Jellyfish Nebula

## Prospective Imaging Objects – October 14 2023

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	DN/BN	LDN-1622	02:31 – 05:37	04:49	61	Orion: Dark and Bright Nebula
Primary Focus	Nebula	DN	SH2-249	01:52 – 05:37	05:13	65	Gemini: Diffuse Nebula
Primary Focus	Nebula	DN	NGC-2237	02:54 - 05:37	05:25	66	Monoceros: Rosette Nebula Core
Primary Focus	Nebula	BN	IC-2169	02:38 – 05:37	05:25	67	Monoceros: Bright Blue Nebula
Primary Focus	Nebula	RN	NGC-2261	02:50 – 05:37	05:33	68	Monoceros: Hubble's Variable Nebula
Primary Focus	Nebula						

# Prospective Imaging Objects – October 14 2023

## Imaging Summary October 14, 2023

Astronomical Dusk = 07:17

Astronomical Dawn = 05:37

### Primary Focus: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	OC	M-29	07:17 – 11:03	07:20	03	Cygnus: Cooling Tower, Open Cluster NGC-6913
Primary Focus	Broad Spectrum	Galaxy	NGC-6946	07:17 – 11:15	07:30	05	Cepheus: Fireworks Galaxy
Primary Focus	Broad Spectrum	GC	M-72	*07:17–10:31	07:49	08	Aquarius: NGC-6981 Small Globular
Primary Focus	Broad Spectrum	OC	M-73	*07:17-10:31	07:54	09	Aquarius: NGC-6994 Small Open Cluster
Primary Focus	Broad Spectrum	GC	M-15	07:17 – 11:19	08:25	12	Cepheus: Pegasus Cluster Small Globular Cluster
Primary Focus	Broad Spectrum	GC	M-2	07:17 – 10:33	08:29	13	Aquarius: Med-Large Globular NGC-7089
Primary Focus	Broad Spectrum	GC	M-30	*07:17-09:58	08:36	15	Capricornus: Small-Med Globular NGC-7099
Primary Focus	Broad Spectrum	Galaxies	NGC-7317	07:17 – 01:09	09:31	20	Pegasus: Stephan's Quintet
Primary Focus	Broad Spectrum	Galaxies	NGC-7331	07:17 – 01:11	09:32	20	Pegasus: Galaxy Group NGC-7331
Primary Focus	Broad Spectrum	Galaxy	NGC-7479	07:17 – 12:54	10:00	22	Pegasus: Galaxy PGC-70419
Primary Focus	Broad Spectrum	Galaxies	NGC-7619 Et. El.	07:34 – 12:57	10:15	24	Pegasus: Pegasus Cluster of galaxies
Primary Focus	Broad Spectrum	OC	M-52	07:17 – 02:02	10:20	24	Cassiopeia: Open Cluster NGC-7654
Primary Focus	Broad Spectrum	OC	NGC-7789	07:17 – 02:41	10:52	25	Cassiopeia: Caroline's Rose
Primary Focus	Broad Spectrum	Galaxies	NGC 67-72 et. El.	07:40 – 02:46	11:13	27	Andromeda: Andromeda Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	NGC-147	07:38 – 03:18	11:28	28	Cassiopeia: Med Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-185	09:32 – 04:48	01:22	28	Cassiopeia: Sm Elipical Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-110	07:49 – 03:22	11:35	29	Andromeda: Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-32	07:52 – 03:22	11:37	29	Andromeda: Companion to M-31
Primary Focus	Broad Spectrum	Galaxy	NGC-247	*09:08-02:12	11:42	31	Cetus: Needle's Eye Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-253	*09:41-01:39	11:42	31	Sculptor: Sculptor Galaxy
Primary Focus	Broad Spectrum	Globular	NGC-288	*10:03-01:28	11:48	32	Sculptor: Med-Large Globular
Primary Focus	Broad Spectrum	Galaxy	IC-1613	09:45 – 02:18	12:00	33	Cetus: Irregular Dwarf Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-404	08:24 – 03:45	12:04	34	Andromeda: Mirachs Ghost
Primary Focus	Broad Spectrum	OC	NGC-457	08:27 – 04:01	12:14	34	Cassiopeia: Owl Cluster



## Prospective Imaging Objects – October 14 2023

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxies	Arp-133	10:19 – 02:22	12:20	35	Cetus: Minkowski's Object
Primary Focus	Broad Spectrum	OC	M-103	08:44 – 04:12	12:28	35	Cassiopeia: Open Cluster
Primary Focus	Broad Spectrum	Galaxy	M-33	08:55 – 04:02	12:28	36	Triangulum: Triangulum Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-74	09:27 – 03:35	12:31	37	Pisces: Med Face on Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-772	09:42 – 04:05	12:54	37	Aries: Nautilus Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-891	09:30 – 05:04	01:17	38	Andromeda: Edge on Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-925	09:44 – 05:00	01:22	38	Triangulum: Small Galaxy PGC-9332
Primary Focus	Broad Spectrum	Galaxy	NGC-1055	11:26 – 03:47	01:36	41	Cetus: Edge on Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-77	11:39 – 03:45	01:37	41	Cetus: Galaxy NGC-1068
Primary Focus	Broad Spectrum	OC	M-34	09:49 – 05:24	01:37	41	Perseus: Open Cluster NGC-1039
Primary Focus	Broad Spectrum	Galaxies	Abell-426	10:28 – 05:37	02:14	42	Perseus: Perseus Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxy	IC-342	11:19 – 05:37	02:41	44	Camelopardalis: Large Face-On Galaxy
Primary Focus	Broad Spectrum	OC	M-45	11:19 – 05:37	02:41	44	Taurus: Pleiades
Primary Focus	Broad Spectrum	DN	IC-2118	*12:49-05:37	03:59	47	Eridanus: Witch Head Nebula
Primary Focus	Broad Spectrum	DN	NGC-1788	02:11 – 05:37	04:01	48	Orion: Foxface Nebula
Primary Focus	Broad Spectrum	GC	M-79	*03:02-05:26	04:18	50	Lepus: Med Globular
Primary Focus	Broad Spectrum	Galaxy	IC-418	*01:39-05:37	04:21	51	Lepus: Spirograph Nebula
Primary Focus	Broad Spectrum	OC	M-38	12:42 – 08:03	04:23	52	Auriga: Starfish Cluster
Primary Focus	Broad Spectrum	OC	M-36	12:52 – 05:37	04:30	54	Auriga: Pinwheel Cluster
Primary Focus	Broad Spectrum	Galaxy	NGC-1961	01:20 – 05:37	04:36	57	Camelopardalis: Galaxy Group
Primary Focus	Broad Spectrum	OC	M-37	01:10 – 05:37	04:46	58	Auriga: Salt and Pepper Cluster

# Prospective Imaging Objects – October 14 2023

## Imaging Summary October 14, 2023

Astronomical Dusk = 07:17

Astronomical Dawn = 05:37

### Primary Prospects

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HS1a	HyperStar	Nebula	Nebula	NGC-6914 Region	07:17 – 11:07	07:20	03	Composite2! Butterfly Nebula Region
	HyperStar	Nebula	Nebula	IC-1318	07:17 – 11:07	07:21	04	Cygnus: NGC-6914 Region
	HyperStar	Nebula	Nebula	NGC-6960	07:17 – 11:23	07:48	07	Composite2! Cygnus: Veil Nebula
HS2a	HyperStar	Nebula	Nebula, DN	B-168, IC-5146	07:17 – 12:34	08:44	16	Cygnus: Dark Cocoon
	HyperStar	Nebula	Nebula	SH2-132	07:17 – 01:03	09:14	18	Cepheus: Bright Nebula
	HyperStar	Nebula	Nebula	IC-59,63	08:09 – 03:35	11:52	33	Cassiopeia: Bright Nebula
HS2b	HyperStar	Broad Spectrum	Galaxy	M-33	08:55 – 04:02	12:28	36	Triangulum: Triangulum Galaxy
	HyperStar	Nebula	Nebula	M-42	02:53 – 05:37	04:29	53	Orion: Orion Nebula
HS1b	HyperStar	Nebula	Nebula	SH2-240	01:04 – 05:37	04:33	55	Composite2! Rotation Taurus: Nebula
	HyperStar	Nebula	Nebula	LDN-1622 R1	02:31 – 05:37	04:49	59	Orion: Wave Nebula
	HyperStar	Nebula	Nebula	IC-2162, SH2-261	01:57 – 05:37	05:07	62	Rotation Orion: Multiple Nebulas
HS2c	HyperStar	Nebula	Nebula	IC-2169	02:38 – 05:37	05:25	67	Monoceros: Nebula Region
	Focal Reducer	Nebula	Nebula	NGC-6914 Region	07:17 – 11:07	07:20	04	Cygnus: NGC-6914 Region
	Focal Reducer	Nebula	Nebula	IC-1318	07:17 – 11:07	07:21	05	Cygnus: Butterfly Nebula region
FR1a	Focal Reducer	Nebula	Nebula	NGC-6992	07:17 – 01:27	07:52	09	Composite2! Cygnus: Network Nebula
	Focal Reducer	Nebula	R Nebula	NGC-7023	07:17 – 11:19	07:57	10	Cepheus: Iris Nebula
	Focal Reducer	Nebula	Nebula	IC-1396	07:17 – 12:22	08:34	14	Cepheus: Elephant Trunk ROI (2)
	Focal Reducer	Nebula	Nebula, DN	IC-5146	07:17 – 12:34	08:49	16	Cygnus: Dark Cocoon
	Focal Reducer	Nebula	Nebula	SH2-132	07:17 – 01:03	09:14	19	Cepheus: Bright Nebula
FR2a	Focal Reducer	Broad Spectrum	Galaxies	NGC-7331 et. El.	07:17 – 01:09	09:31	19	Rotation Pegasus: Stephan's Quintet & NGC-7331
FR3a	Focal Reducer	Nebula	Nebula	SH2-142	07:17 – 01:28	09:40	20	Cepheus: Wizard Nebula
	Focal Reducer	Nebula	Nebula	Sh2-155	07:17 – 01:32	09:52	21	Cepheus: Cave Nebula

# Prospective Imaging Objects – October 14 2023

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Focal Reducer	Broad Spectrum	Galaxies	NGC-7619	07:34 – 12:57	10:15	23	Pegasus: Pegasus Cluster of Galaxies
	Focal Reducer	Nebula	Nebula	NGC-7822	07:32 – 02:22	10:57	26	Cepheus: Diffuse Nebula
FR2b	Focal Reducer	Broad Spectrum	Galaxy	M-33	08:55 – 04:02	12:28	36	Rotation Triangulum: Triangulum Galaxy
FR1b	Focal Reducer	Broad Spectrum	DN,BN	NGC-1788	02:11 – 05:37	04:01	48	Orion: Foxface Nebula
	Focal Reducer	Nebula	Nebula	NGC-1977	02:49 – 05:37	04:39	54	Orion: Running Man Nebula
	Focal Reducer	Nebula	Nebula	M-78	02:32 – 05:37	04:41	55	Orion: Bright and Dark Nebula
	Focal Reducer	Nebula	Nebula	SH 2-621	01:57 – 05:37	05:07	62	Orion: Lower's Nebula
	Focal Reducer	Broad Spectrum	OC	M-35, NGC-2158	01:40 – 05:37	05:03	63	Gemini: Open Cluster Pair
	Focal Reducer	Nebula	Nebula	NGC-2174	01:48 – 05:37	05:03	63	Orion: Monkey Head Nebula
FR3b	Focal Reducer	Nebula	Nebula	IC-443	01:51 – 05:37	05:10	65	Gemini: Jellyfish Nebula
	Focal Reducer	Nebula	Nebula	NGC-2237	02:54 – 05:37	05:25	66	Monoceros: Rosette Nebula Core
	Focal Reducer	Nebula	Nebula	IC-2169	02:38 – 05:37	05:25	67	Monoceros: Blue Nebula
	Focal Reducer	Nebula	Nebula	NGC-2264	02:48 – 05:37	05:35	68	Comp2! Monoceros: Xmas Tree & Cone
	Primary Focus	Broad Spectrum	GC	M-72	*07:17-10:31	07:49	08	Aquarius: Sm Globular NGC-6981
GC1a	Primary Focus	Broad Spectrum	GC	M-2	07:17 – 10:33	08:29	13	Aquarius: Large Globular
	Primary Focus	Broad Spectrum	GC	M-30	*07:17-09:58	08:36	15	Capricornus: Med Globular
GC1b	Primary Focus	Broad Spectrum	GC	NGC-288	*10:03-01:28	11:48	32	Sculptor: Med/Large Globular
GC1c	Primary Focus	Broad Spectrum	GC	M-79	*03:02-05:26	04:18	50	Lepus: Sm/Med Globular
	Primary Focus	Nebula	PN	NGC-6894	07:17 – 10:45	07:12	02	Cygnus: Sm/Med Planetary
	Primary Focus	Nebula	PN	NGC-7009	*07:17-10:48	08:00	11	Aquarius: Saturn Nebula, Small PN
	Primary Focus	Nebula	PN	NGC-7027	07:17 – 11:49	08:02	11	Cygnus: Small Planetary
PN1a	Primary Focus	Nebula	PN	<b>NGC-7048</b>	07:17 – 11:59	08:10	12	Cygnus: Sm-med PN
	Primary Focus	Nebula	PN	NGC-7094	07:17 – 11:28	08:32	13	Pegasus: Sm/Med Planetary
	Primary Focus	Nebula	PN	NGC-40	08:16 – 02:00	11:08	27	Cepheus: Bow-Tie Nebula
PN1b	Primary Focus	Nebula	PN	<b>NGC-246</b>	*08:57 – 02:23	11:42	30	Cetus: Skull Nebula

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Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
PN1c	Primary Focus	Nebula	PN	NGC-1360	*02:33-04:14	02:28	43	Fornax: Robins Egg Nebula
	Primary Focus	Nebula	PN	IC-418	*01:39-05:37	04:21	51	Lepus: Spirograph Nebula
PF1a	Primary Focus	Broad Spectrum	Galaxy	NGC-6946	07:17 – 11:15	07:30	05	Cepheus: Fireworks Galaxy
	Primary Focus	Nebula	DN	IC-1396	07:17 – 12:22	08:34	15	Cepheus: Elephant Trunk ROI (3)
	Primary Focus	Nebula	Nebula	SH2-132	07:17 – 01:03	09:14	19	Cepheus: Bright Nebula
	Primary Focus	Broad Spectrum	Galaxy	NGC 7331 Etl El.	07:17 – 01:09	09:31	20	Pegasus: Stephan's Quintet
PF2a	Primary Focus	Nebula	Nebula	SH2-155	07:17 – 01:32	09:52	22	Cepheus: Cave Nebula
	Primary Focus	Broad Spectrum	Galaxies	NGC-7619 Et. El.	07:334 – 12:57	10:15	24	Pegasus: Pegasus Cluster of Galaxies
	Primary Focus	Broad Spectrum	Galaxies	NGC 67-72	07:40 – 02:46	11:13	27	Andromeda: Andromeda Galaxy Group
	Primary Focus	Nebula	Nebula	IC-59, 63	08:09 – 03:35	11:52	33	Cassiopeia: Bright Nebula
PF3a	Primary Focus	Broad Spectrum	Galaxy	IC-1613	09:45 – 02:18	12:00	33	Cetus: Irregular Dwarf Galaxy
	Primary Focus	Broad Spectrum	Galaxies	Arp-133	10:19 – 02:22	12:00	35	Cetus: Minkowski's Object
	Primary Focus	Nebula	Nebula	SH2-188	08:38 – 04:12	12:25	35	Cassiopeia: Firefox Nebula
	Primary Focus	Broad Spectrum	Galaxy	NGC-772	09:42 – 04:05	12:54	37	Aries: Nautilus Galaxy
	Primary Focus	Broad Spectrum	Galaxy	NGC-1055	11:26 – 03:47	01:36	41	Cetus: Edge on Galaxy
	Primary Focus	Broad Spectrum	Galaxy	M-77	11:39 – 03:45	01:37	41	Cetus: Galaxy
	Primary Focus	Broad Spectrum	Galaxies	Abell-426	10:28 – 05:37	02:14	42	Perseus: Perseus Galaxy Cluster
	Primary Focus	Nebula	Nebula	NGC-1333	10:49 – 05:37	02:23	43	Perseus: Bright Nebula
	Primary Focus	Nebula	Nebula	IC-348	11:03 – 05:37	02:39	43	Perseus: Bright Nebula
PF1b	Primary Focus	Broad Spectrum	Galaxy	IC-342	11:19 – 05:37	02:41	44	Camelopardalis: Face On Galaxy
PF2b	Primary Focus	Nebula	Nebula	NGC-1579	11:44 – 05:37	03:24	47	Perseus: Trifid of the North
	Primary Focus	Nebula	Nebula	NGC-1788	02:11 – 05:37	04:01	48	Orion: Foxface Nebula
	Primary Focus	Nebula	Nebula	IC-405	12:32 – 05:37	04:10	49	Auriga: Flaming Star Nebula
	Primary Focus	Nebula	Nebula	SH 2-261	01:57 – 05:37	05:07	63	Orion: Lower's Nebula
	Primary Focus	Nebula	Nebula	NGC-2237	02:54 – 05:37	05:25	66	Monoceros: Rosette Nebula Core
PF3b	Primary Focus	Nebula	Nebula	IC-2169	02:38 – 05:37	05:25	67	Monoceros: Blue Nebula

# Prospective Imaging Objects – October 14 2023

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## Imaging Summary October 14, 2023

Astronomical Dusk = 07:17

Astronomical Dawn = 05:37

### Imaging Plans

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Imaging Schedule
HS1a	HyperStar	Nebula	Nebula	NGC-6914 Region	07:17 – 11:07	07:20	03	7:15 – 11:30
HS1b	HyperStar	Nebula	Nebula	SH2-240	01:01 – 05:37	04:33	55	12:30 – 05:37
HS2a	HyperStar	Nebula	Nebula, DN	B-168, IC-5146	07:17 – 12:34	08:44	16	07:17 – 11:30
HS2b	HyperStar	Broad Spectrum	Galaxy	M-33	08:55 – 04:02	12:28	36	11:30 – 02:30
HS2c	HyperStar	Nebula	Nebula	IC-2169	02:38 – 05:37	05:25	67	02:30 – 05:30
FR1a	Focal Reducer	Nebula	Nebula	NGC-6992	07:17 – 01:27	07:52	09	C1   07:15 – 11:15 C2   11:30 – 01:30
FR1b	Focal Reducer	Broad Spectrum	DN, BN	NGC-1788	02:11 – 05:37	04:01	48	02:00 – 05:37
FR2a	Focal Reducer	Broad Spectrum	Galaxies	NGC-7331 et. El.	07:17 – 01:09	09:31	19	R 07:17 – 01:00
FR2b	Focal Reducer	Broad Spectrum	Galaxy	M-33	08:55 – 04:02	12:27	36	R 01:00 – 04:30
FR3a	Focal Reducer	Nebula	Nebula	SH2-142	07:17 – 01:28	09:40	20	07:15 – 01:30
FR3b	Focal Reducer	Nebula	Nebula	IC-443	01:51 – 05:37	05:10	65	01:30 – 05:30
GC1a	Primary Focus	Broad Spectrum	GC	M-2	07:17 – 10:33	08:29	13	07:15 – 10:30
GC1b	Primary Focus	Broad Spectrum	GC	NGC-288	*10:03-01:28	11:48	32	10:30 – 01:30
GC1c	Primary Focus	Broad Spectrum	GC	M-79	*03:02-05:26	04:18	50	03:00 – 05:26
PN1a	Primary Focus	Nebula	PN	NGC-7048	07:17 – 11:59	08:10	12	07:15 – 12:00
PN1b	Primary Focus	Nebula	PN	NGC-246	*08:57-02:23	11:42	30	12:00 – 02:30
PN1c	Primary Focus	Nebula	PN	NGC-1360	*02:33-04:14	02:28	43	02:30 – 04:30
PF1a	Primary Focus	Broad Spectrum	Galaxy	NGC-6946	07:17 – 11:15	07:30	05	07:15 – 11:30
PF1b	Primary Focus	Broad Spectrum	Galaxy	IC-342	11:19 – 05:37	02:41	44	11:30 – 05:30
PF2a	Primary Focus	Nebula	Nebula	SH2-155	07:17 – 01:32	09:52	22	07:15 – 12:30

## Prospective Imaging Objects – October 14 2023

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Imaging Schedule
PF2b	Primary Focus	Nebula	Nebula	NGC-1579	11:44 – 05:37	03:24	47	12:30 – 05:30
PF3a	Primary Focus	Broad Spectrum	Galaxy	IDC-1613	09:45 – 02:18	12:00	33	09:30 – 02:30
PF3b	Primary Focus	Nebula	Nebula	IC-2169	02:38 – 05:37	05:25	67	02:30 – 05:30
	Primary Focus							