

# Prospective Imaging Objects – November 01, 2024

## Astronomical Data

Sunrise	Sunset	Astronomical Dusk	Astronomical Dawn	Imaging	New Moon
06:47am	05:35 pm	06:59 pm	05:23 am	10:23	November 01

## Hardware Info

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

## How to use this document

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

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

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



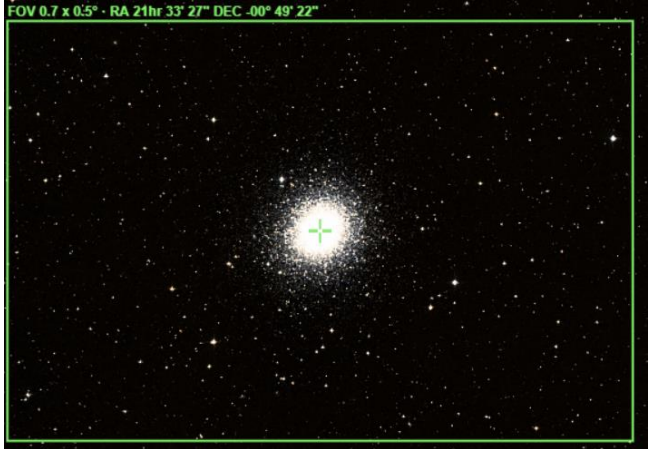
Imaging Window: \*10:44 – 02:44  
 Transit: **12:48**

Primary Focus

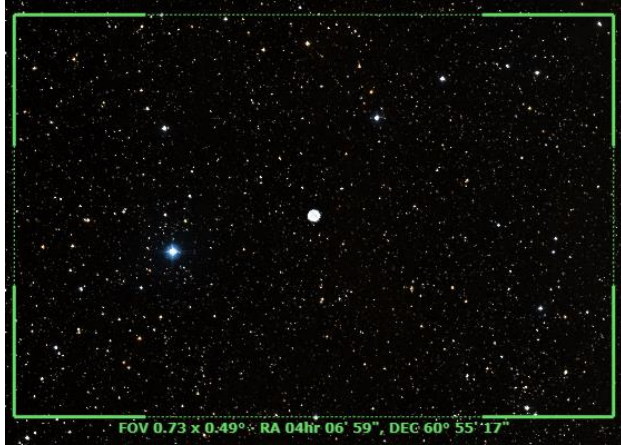

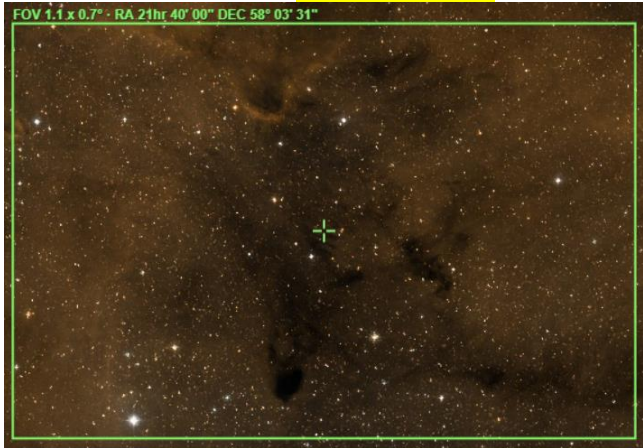
Sculptor Galaxy (NGC 253)  
 Constellation: Sculptor

- 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 – November 01, 2024

<p><b>Pegasus Cluster (M-15)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Pegasus</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/NGC-7078</a> Imaging Window: <b>06:59 – 10:04</b> Transit: <b>07:08   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-39 (NGC-7092)</b> Config:  C11-HD FR 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/NGC-7092</a> Imaging Window: <b>06:59 – 11:02</b> Transit: <b>07:10   75°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<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/NGC-7089</a> Imaging Window: <b>06:59 – 09:18</b> Transit: <b>07:12   56°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

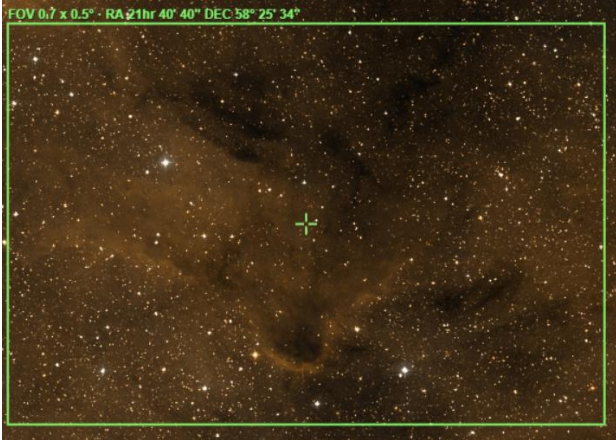


# Prospective Imaging Objects – November 01, 2024

<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>06:59 – 10:13</b> Transit: <b>07:15   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>06:59 – 11:07</b> Transit: <b>07:17   66°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>Elephant Trunk (IC-1396)</b> Config:  C11-HD <b>FR</b> 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>06:59 – 11:07</b> Transit: <b>07:17   66°</b></p>	<p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b></b></p> 

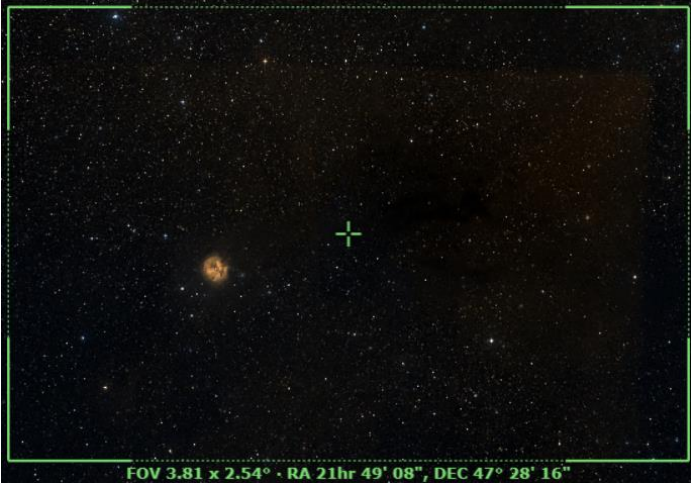


# Prospective Imaging Objects – November 01, 2024

<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>06:59 – 11:07</b>            Transit: <b>07:17   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>06:59 – 11:07</b>            Transit: <b>07:17   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 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>06:59 – 11:07</b>            Transit: <b>07:17   66°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – November 01, 2024

<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>06:59 – 11:07</b> Transit: <b>07:17   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>*06:59 – 09:37</b> Transit: <b>07:18   34°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<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>06:59 – 11:04</b> Transit: <b>07:24   60°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

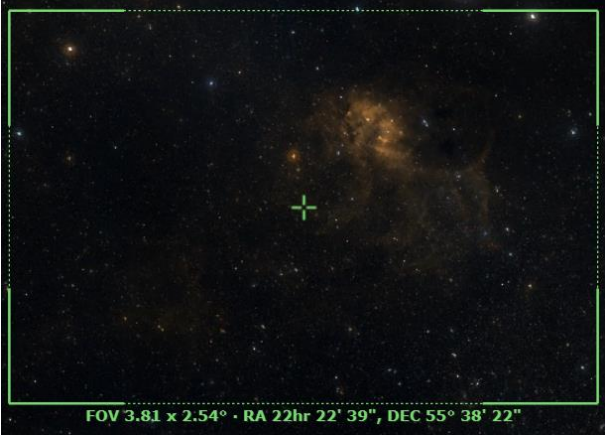
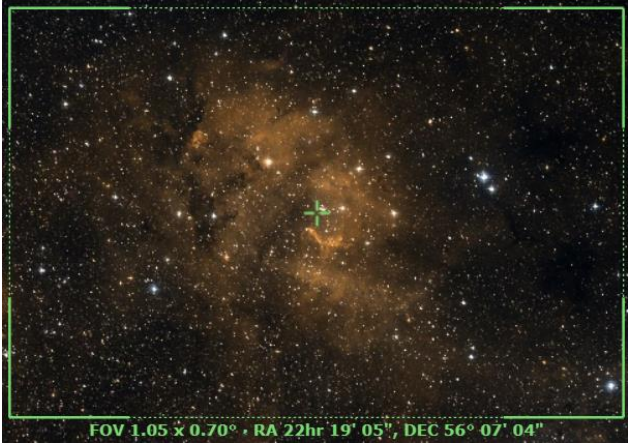
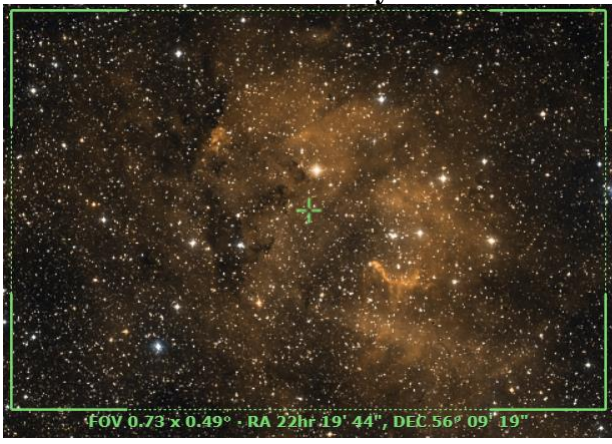
# Prospective Imaging Objects – November 01, 2024

<p><b>Dark Cocoon</b> (B-168, IC 5146)            Config: C11-HD   HS   ZWO6200MC</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: SAO-5105 (Rho Cygni)            Catalog Objects: <a href="#">B-168</a>, IC-5146            Imaging Window: <b>06:59 – 11:24</b>            Transit: <b>07:31   76°</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 21hr 49' 08", DEC 47° 28' 16"</p>
<p><b>Cocoon Nebula</b> (IC-5146)            Config:  C11-HD FR 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: SAO-5105 (Rho Cygni)            Catalog Objects: <a href="#">IC-5146</a>            Imaging Window: <b>06:59 – 11:24</b>            Transit: <b>07:32   76°</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 21hr 52' 00", DEC 47° 22' 37"</p>
<p><b>Cocoon Nebula</b> (IC-5146)            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: SAO-5105 (Rho Cygni)            Catalog Objects: <a href="#">IC-5146</a>            Imaging Window: <b>06:59 – 11:24</b>            Transit: <b>07:32   76°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;">FOV 1.05 x 0.70° · RA 21hr 52' 00", DEC 47° 16' 00"</p>




# Prospective Imaging Objects – November 01, 2024

<p><b>Dark Shark</b> (LDN 1235)            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: SAO-20268 (Iota Cephei)            Catalog Objects: <a href="#">LDN-1235</a>            Imaging Window: <b>06:59 – 10:38</b>            Transit: <b>07:53   50°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<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 Star: SAO-20268 (Iota Cephei)            Catalog Objects: <a href="#">B-168</a>, IC-5146            Imaging Window: <b>06:59 – 11:24</b>            Transit: <b>07:31   76°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>Wolf's Cave</b> (VdB-152)            Config:  C11-            HD FR ZWO6200MC </p> <p>Type: <b>Bright &amp; Dark Nebula</b></p> <p>Constellation: <b>Cepheus</b>            Coordinates:  <b>22h 13' 42"</b>  <b>70° 30' 32"</b>  <b>90° Rotation</b></p> <p>Close Star: SAO-20268 (Iota Cephei)            Catalog Objects: <a href="#">B-168</a>, IC-5146            Imaging Window: <b>06:59 – 11:24</b>            Transit: <b>07:31   76°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 


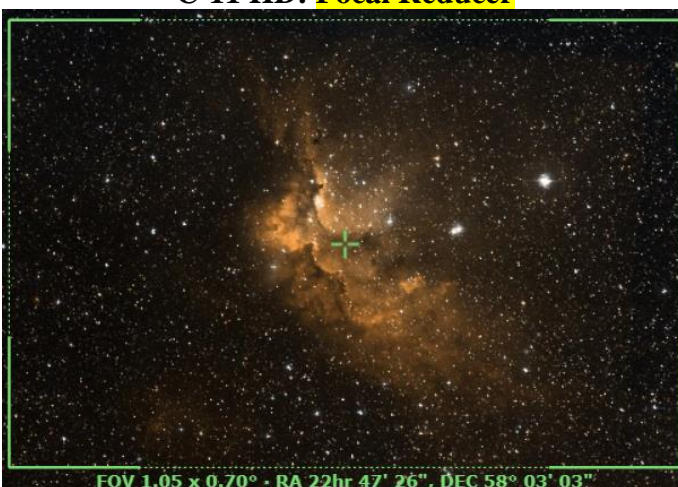

# Prospective Imaging Objects – November 01, 2024

<p><a href="#">SH2-132</a>            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>06:59 – 11:49</b>            Transit: <b>07:57   67°</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 22hr 22' 39", DEC 55° 38' 22"</p>
<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: SAO-20268 (Iota Cephei)            Catalog Objects: <a href="#">SH2-132</a>            Imaging Window: <b>06:59 – 11:49</b>            Transit: <b>07:57   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: SAO-20268 (Iota Cephei)            Catalog Objects: <a href="#">SH2-132</a>            Imaging Window: <b>06:59 – 11:49</b>            Transit: <b>07:57   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>


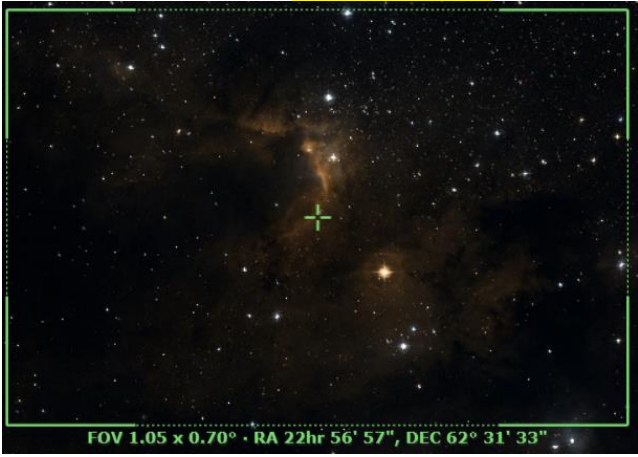

# Prospective Imaging Objects – November 01, 2024

<p><b>Stephan's Quintet &amp; NGC 7331</b> (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></p> <p>Camera Rotation = 115° East (- 245)</p> <p>Close Star: <b>SAO-72191</b> (1 Lacertae) Catalog Objects: <a href="#">NGC-7317</a> Imaging Window: <b>06:59 – 11:55</b> Transit: <b>08:14   89°</b></p>	<p><b>C-11 HD: Focal Reducer</b></p> 
<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="#">NGC-7317</a> Imaging Window: <b>06:59 – 11:55</b> Transit: <b>08:14   89°</b></p>	<p><b>C-11 HD: Primary Focus</b></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>*06:59 – 10:37</b> Transit: <b>08:08   36°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p>James Yoder 2019-09-21 Location: Chandler, AZ Config:  C11  LF Corrector   Astronomik CLS-CCD   QHY128c   Exposure Info: 180min@5min   Gain: 200   OSet: 180</p>



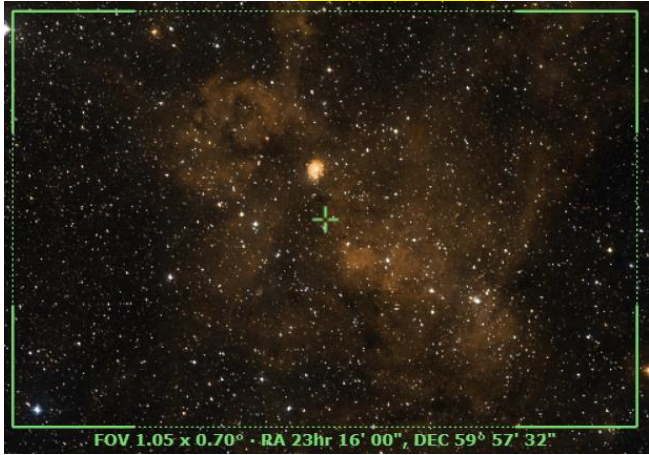
# Prospective Imaging Objects – November 01, 2024

<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>06:59 – 11:56</b> Transit: <b>08:15   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC 7331, NGC 7335, NGC 7337 Galaxy Group James Yoder 2015.09.11</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>06:59 – 12:15</b> Transit: <b>08:25   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small; color: green;">FOV 1.05 x 0.70° - RA 22hr 47' 26", DEC 58° 03' 03"</p>
<p><b>Wizard Nebula</b> (SH 2-142)</p> <p>Config:  C11HD 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>05:59 – 12:15</b> Transit: <b>08:25   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small;">Wizard Nebula (NGC-7380) Constellation: Cepheus RA: 22h 47m 16.5s, Dec: +58° 03' 03.1", Size: 40 x 27.2 pixels / Dimension: 0.266 x 0.177° / Pixel scale: 0.441 arcsecond / F1-200mm James Yoder (Denton) 2019.10.25, 2020.09.16, Location: Chandler, AZ Config: C-11 HD   ZWO6200MC   F1-200mm Exposure: 1x1, 200mm f/5.6, Gain: 1200, 100% 1.80</p>




# Prospective Imaging Objects – November 01, 2024

<p><b>Cave Nebula (SH2-155)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright &amp; Dark Nebula</b></p> <p>Constellation: <b>Cepheus</b>            Coordinates:  <b>23h 00' 57"</b>  <b>62° 04' 09"</b></p> <p>Close Star: SAO-20268 (Iota Cephei)            Catalog Objects: <a href="#">SH2-155</a>            Imaging Window: <b>06:59 – 12:18</b>            Transit: <b>08:35   61°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>Cave Nebula (SH2-155)</b>            Config:  C11-HD FR 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: SAO-20268 (Iota Cephei)            Catalog Objects: <a href="#">SH2-155</a>            Imaging Window: <b>06:59 – 12:18</b>            Transit: <b>08:35   61°</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 56' 57", DEC 62° 31' 33"</p>
<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: SAO-20268 (Iota Cephei)            Catalog Objects: <a href="#">SH2-155</a>            Imaging Window: <b>06:59 – 12:18</b>            Transit: <b>08:35   61°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

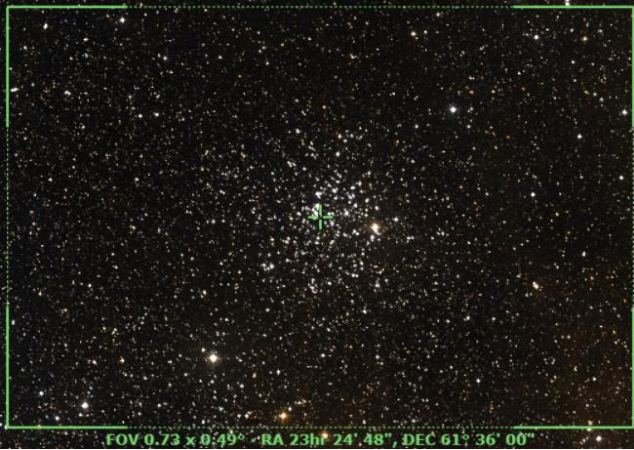
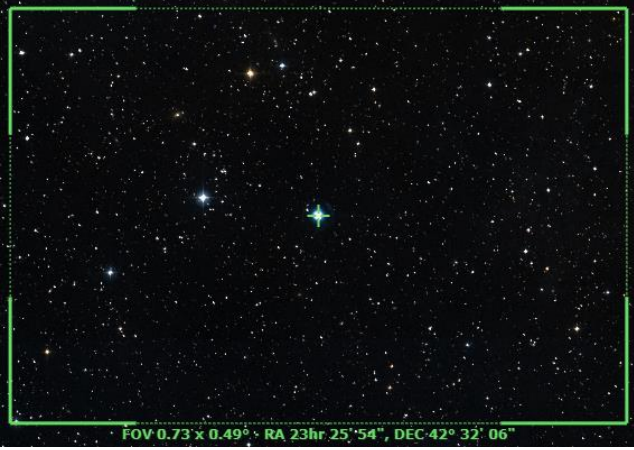
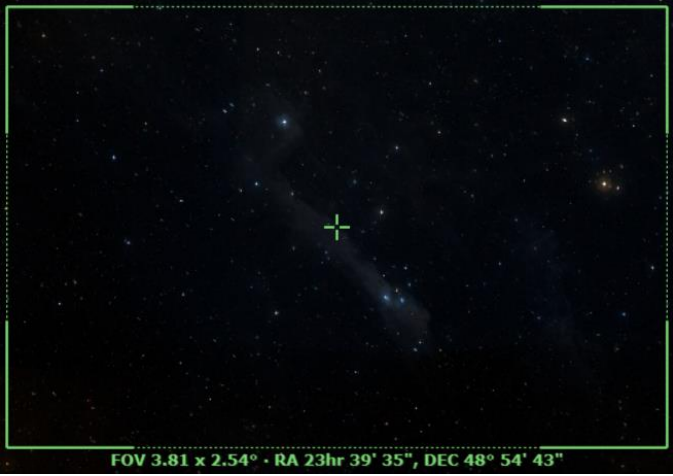
# Prospective Imaging Objects – November 01, 2024

<p><b>NGC-7479</b> (PGC-70419) 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>06:59 – 11:40</b> Transit: <b>08:43   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC-7479 Constellation: Pegasus RA = 23h 04m 58.2s DEC = -12deg 18' 37.3" Size = 31.4 x 21.8 arcmin   Orientation: 0.0 deg E of N   Pixel scale = 0.446 arcsec/pixel   FL=2000mm James Yoder   Location(s) Mather Ground(2020-10-16), Chandler(2020-10-19), AZ   Config:  C-11 HD Baffle Skyline   QHY128c   Exposure Info: 360ms@5um, Gain: 3200   Offset: 180</p>
<p><b>Lobster Claw and Bubble Nebula</b> (SH2-157) Config: C11-HD   HS   ZWO6200MC</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> Imaging Window: <b>06:59 – 12:41</b> Transit: <b>08:54   63°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Lobster Claw and Bubble Nebula(NGC-7635) Constellation: Cassiopeia RA = 23h 18m 25.8s DEC = +60deg 31' 17.8" Size = 2.68 x 1.79 deg   Orientation: 0deg E of N   Pixel scale = 2.28 arcsec/pixel   FL=540mm James Yoder   Date(s) 2020-10-21   Location: Chandler, AZ   Config:  C-11HD   HyperStar V4   Astronomik CLS-CCD   QHY128c   Exposure Info: 360ms@5um   Gain: 3200   Offset: 180</p>
<p><b>Lobster Claw</b> (SH2-157) Config:  C11-HD <b>FR</b> 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>06:59 – 12:41</b> Transit: <b>08:54   63°</b></p>	<p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b></b></p>  <p style="font-size: small;">FOV 1.05 x 0.70° - RA 23hr 16' 00", DEC 59° 57' 32"</p>



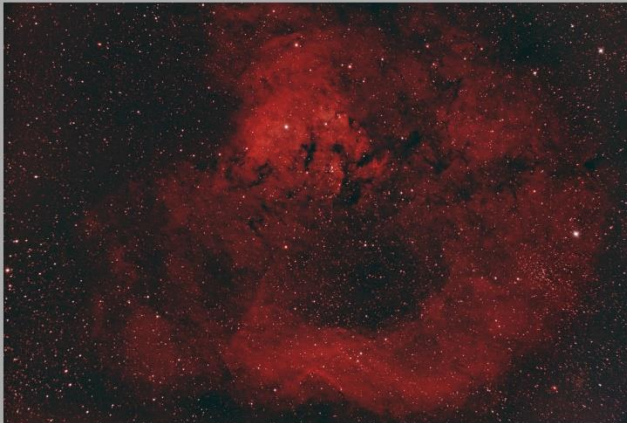
# Prospective Imaging Objects – November 01, 2024

<p><b>Bubble Nebula (NGC-7635)</b> 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 (Caph)</b> Catalog Objects: <a href="#">NGC-7635</a>, SH2-162 Imaging Window: <b>06:59 – 12:44</b> Transit: <b>08:59   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Bubble Nebula (NGC-7635) Constellation: Cepheus</p> <p style="font-size: x-small; text-align: right;">Image Date: 2018-08-12 Location: Canada, AZ Config:  C11 Svbony-LP Reducer-1048 Filter-020112  Exposure: 100   10000000000   1000   10000000000   1000   10000000000  </p>
<p><b>Pegasus Cluster (NGC-7619)</b> Config:  C11- HD <b>FR</b> 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 (g Piscium)</b> Catalog Objects: <a href="#">NGC-7619</a> Imaging Window: <b>06:59 – 11:42</b> Transit: <b>08:58   65°</b></p>	<p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b></b></p>  <p style="text-align: center; font-size: small;">FOV 1.05 x 0.70° · RA 23hr 20' 13", DEC 08° 11' 08"</p>
<p><b>Pegasus Cluster (NGC-7619)</b> 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 (g Piscium)</b> Catalog Objects: <a href="#">NGC-7619</a> Imaging Window: <b>06:59 – 11:42</b> Transit: <b>08:58   65°</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 23hr 20' 13", DEC 08° 10' 57"</p>

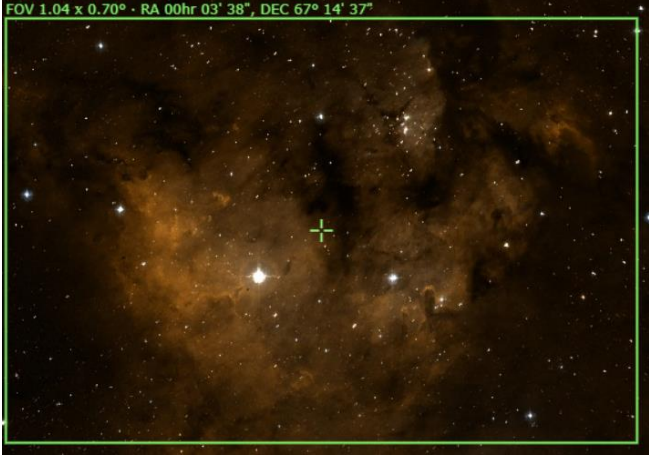


# Prospective Imaging Objects – November 01, 2024

<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>06:59 – 12:47</b> Transit: <b>09:03   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Blue Snowball</b> (NGC-7662) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Andromeda</b> Coordinates: <b>23h 25' 54"</b> <b>42° 32' 06"</b></p> <p>Close Star: <b>SAO-53216</b> (Iota And) Catalog Objects: <a href="#">NGC-7662</a> Imaging Window: <b>06:59 – 12:54</b> Transit: <b>09:04   81°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Blue Match Nebula</b> (SH2-155) Config: <b>C11-HD   HS   ZWO6200MC</b></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>06:59 – 01:01</b> Transit: <b>09:07   81°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 




# Prospective Imaging Objects – November 01, 2024

<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>06:59 – 01:26</b> Transit: <b>09:35   65°</b></p>	<p><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 Imaging Window: <b>06:59 – 01:07</b> Transit: <b>09:39   56°</b></p>	<p><b>C-11 HD: HyperStar v4 Composite!</b></p> 
<p><b>NGC-7822</b> (CED-214) Config: <b>C11-HD   HS   ZWO6200MC</b></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: <b>SAO-20268</b> Catalog Objects: Ced 214, <a href="#">NGC 7822</a>, SH2-171 Imaging Window: <b>06:59 – 01:07</b> Transit: <b>09:39   56°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p> 


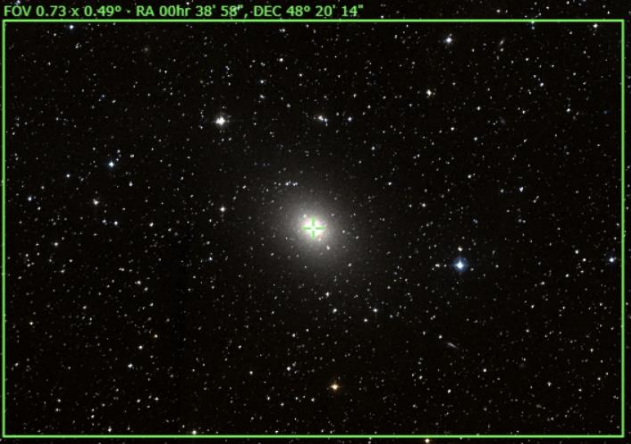

# Prospective Imaging Objects – November 01, 2024

<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: <b>SAO-20268</b>            Catalog Objects: Ced 214, <a href="#">NGC 7822</a>,            SH2-171            Imaging Window: <b>06:59 – 01:07</b>            Transit: <b>09:39   56°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></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: <b>SAO-10818</b>            Catalog Objects: Ced 214, <a href="#">NGC 7822</a>,            SH2-171            Imaging Window: <b>06:59 – 01:07</b>            Transit: <b>09:39   56°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Bright Nebula NGC-7822 (Ced 214)            Constellation: Cepheus            RA = 00h 13m 01s, DEC = 72° 31' 21" (Size = 0.8 x 0.5 arcmin, Pixel scale = 0.84" unpaired)            James Webb 2024-10-02            Location: Chesler, AZ            Config: C-11 HD (Secondary) CS-CED (2021-12-02)            Exposure: 10 x 120sec/Frame, Gain: 2000, Offset: 0</p>
<p><b>Bow-Tie Nebula</b> (NGC-40)            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>06:59 – 12:46</b>            Transit: <b>09:51   51°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – November 01, 2024

<p><b>Andromeda Galaxy Group</b>          Config:  C11HD ZWO6200MC </p> <p>Type: <b>Cluster of dim galaxies</b>          Peak:          Constellation: <b>Andromeda</b>          Coordinates:  <b>00h 17' 58"</b>  <b>30° 03' 03"</b></p> <p>Close Star: <b>SAO-73765</b> (Alpheratz)          Catalog Objects: <a href="#">NGC 67-72</a> et. El.</p> <p>Imaging Window: <b>06:59 – 01:31</b>          Transit: <b>09:56   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    <b>ZWO6200MC</b></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</b> (Shedar)          Catalog Objects: <a href="#">NGC-147</a>, NGC-185          Imaging Window: <b>06:59 – 02:04</b>          Transit: <b>10:11   75°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>NGC-147 &amp; NGC-185</b>          Config: C11-HD   FR    <b>ZWO6200MC</b></p> <p>Type: <b>Galaxy Pair</b></p> <p>Constellation: <b>Cassiopeia</b>          Coordinates:          Frame 01          RA: <b>00hr 38' 33"</b> DEC: <b>48° 25' 44"</b>          Frame 02          RA: <b>00hr 33' 21"</b> DEC: <b>48° 25' 44"</b></p> <p>Close Star: <b>SAO-21609</b> (Shedar)          Catalog Objects: <a href="#">NGC-147</a>          Imaging Window: <b>06:59 – 02:02</b>          Transit: <b>10:11   75°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer          Composite!</b></p>  <p><small>Dwarf Galaxies NGC-185, NGC-147          ©2024 Starizona, Cassiopeia          All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Starizona.</small></p>


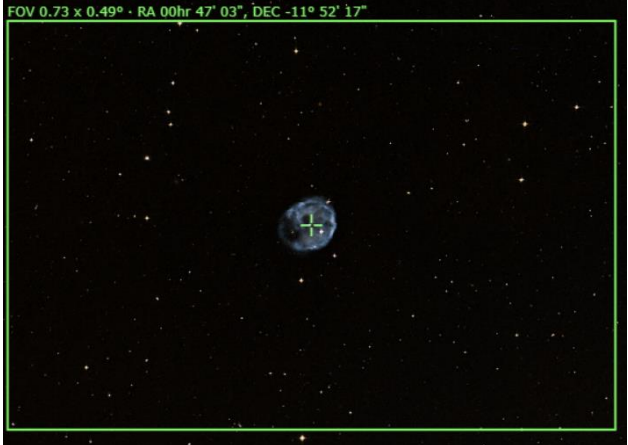

# Prospective Imaging Objects – November 01, 2024

<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: <b>06:59 – 02:02</b> Transit: <b>10:11   75°</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p>  <p style="font-size: small;">Dwarf Galaxy NGC-147 Constellation: Cassiopeia   Size = 49.7 x 33.5 arcmin   Pixel scale = 0.579 arcsec/pixel Juno Tools (2000) 2019 09 27 Location: Maricopa Grande, Phoenix, AZ Config: C11   L1 Camera   Rucker   HighGain Filter   QHY170C   Exposure Info: 1440ms/Frame   Gain: 1200   Offset: 180</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-185</a> Imaging Window: <b>06:59 – 02:10</b> Transit: <b>10:17   75°</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 38' 58", DEC 48° 20' 14" Juno Tools (2000) 2019 09 27 Location: Maricopa Grande, Phoenix, AZ Config: C11   L1 Camera   Rucker   HighGain Filter   QHY170C   Exposure Info: 1440ms/Frame   Gain: 1200   Offset: 180</p>
<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: SAO-73765 (Sirrah) Catalog Objects: <a href="#">M-110</a> Imaging Window: <b>06:59 – 02:07</b> Transit: <b>10:18   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   Size = 61.2 x 27.3 arcmin   Orientation: 9.5deg E of N   Pixel scale = 0.646 arcsec/pixel   15" x 7.62mm Juno Tools (2000) 2019 09 27 Location: Maricopa Grande, Phoenix, AZ Config: C11   L1 Camera   Rucker   HighGain Filter   QHY170C   Exposure Info: 1440ms/Frame   Gain: 1200   Offset: 180</p>



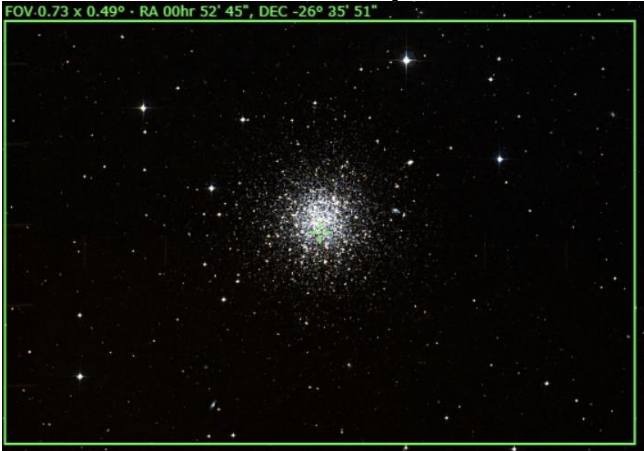
# Prospective Imaging Objects – November 01, 2024

<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: SAO-73765 (Sirrah) Catalog Objects: <a href="#">M-32</a> Imaging Window: <b>06:59 – 02:09</b> Transit: <b>10:20   83°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></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: SAO-54281 Catalog Objects: <a href="#">M-31</a>, M-32 Imaging Window: <b>06:59 – 02:09</b> Transit: <b>10:20   82°</b></p>	<p style="text-align: center;"><b>Hyperstar</b></p> 
<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>06:59 – 02:09</b> Transit: <b>10:20   82°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 




# Prospective Imaging Objects – November 01, 2024

<p><b>NGC246, NGC255, PGC 2689</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: Planetary Nebula, 2 Galaxies</p> <p>Constellation: Cetus            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: *07:12 – 01:40            Transit: 10:25   45°</p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small; text-align: center;">Skull Nebula (NGC-246) and Galaxy NGC-255            Constellation: Cetus the Whale            RA: 00h 47m 00s, DEC: -11° 40' 40"   Size: 51.7 x 34.5 arcmin   Orientation: 39Mag E of N   Pixel scale: 0.579 arcsec/pixel   FL: 1900mm            James Volder   Date: 2024-09-26   Location: Chandler, AZ            Config: C11-HD   0.7 Reducer   Filter: Baader Skyglow-Cetaceus QHY128C            Exposure Info: 200ms@5min   Gain: 1200   Offset: 100</p>
<p><b>Skull Nebula (NGC-246)</b>            Config: C11-HD   ZWO6200MC</p> <p>Type: Planetary Nebula</p> <p>Constellation: Cetus            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: *07:12 – 01:40            Transit: 10:25   45°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">FOV 0.73 x 0.49° - RA 00hr 47' 03", DEC -11° 52' 17"</p>
<p><b>Needle's Eye Galaxy (NGC 247)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: Galaxy            Peak:            Constellation: Cetus            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: *07:57 – 12:59            Transit: 10:25   36°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">Needle's Eye Galaxy (NGC-247)            Constellation: Cetus            RA: 00h 47m 12s, DEC: -20° 44' 38"   Size: 41.1 x 2.7 arcmin   Orientation: 65Mag E of N   Pixel scale: 0.448 arcsec/pixel   FL: 2000mm            James Volder   Date: 2024-09-11, 2024-09-12   Location: Chandler, AZ            Config: C-11 HD   Baader Skyglow-Cetaceus QHY128C            Exposure Info: 200ms@5min   Gain: 1200   Offset: 100</p>

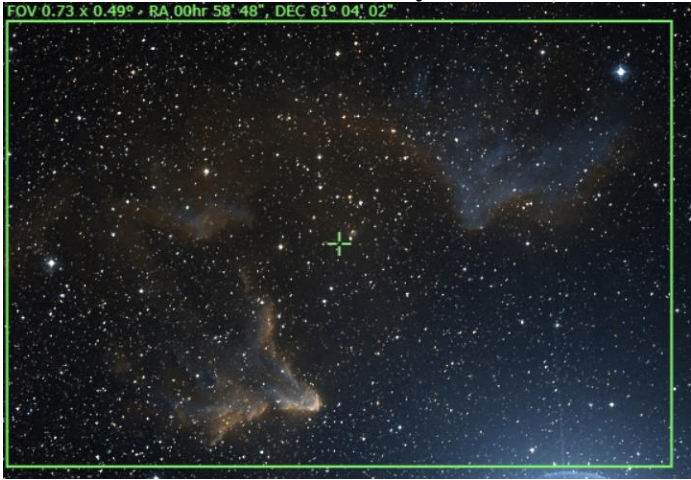

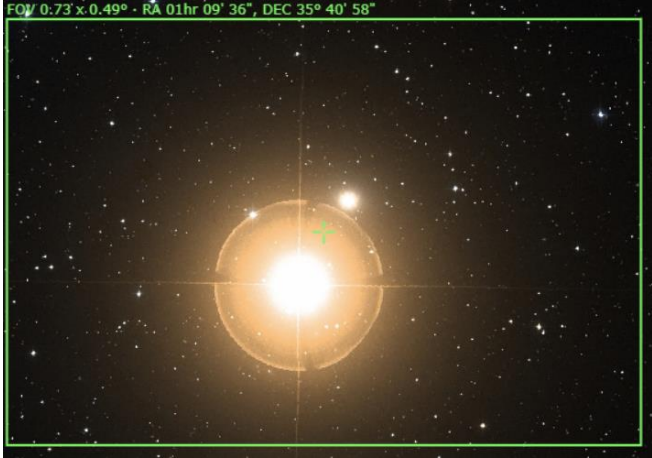
# Prospective Imaging Objects – November 01, 2024

<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: *08:26 – 12:29            Transit: 10:25   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)  <small>James Webb (DuoV) 2024.12.14   Location: Mountain Grand Trailhead, AZ            Constellation: Sculptor            RA = 00h 50m 03.1s   DEC = -25deg 54' 37.0"   Size = 3.14 x 2.89 deg   Orientation: 5deg E of N   Pixel scale = 2.28 arcsec/pixel   FL=500mm            Config: C-11HD   HyperStar V4   Braker Skyglow   OFV 12k+            Exposure Info: 21 (Hrbn)/5min   Gain: 3200   Offset: 180</small></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: *08:26 – 12:29            Transit: 10:25   31°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Sculptor Galaxy (NGC 253)  <small>James Webb   2024.08.21            Location: Chandler, AZ            Config: C11   Stationer L.F. Corrector   Braker Vision Filter   OFV 12k+            Exposure Info: (Hrbn)/5min   Gain: 3200   Offset: 180</small></p>
<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: *08:49 – 12:22            Transit: 10:30   31°</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 52' 45", DEC -26° 35' 51"</p>




# Prospective Imaging Objects – November 01, 2024

<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: *06:59 – 03:14            Transit: 10:25   38°</p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></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: 06:59 – 02:21            Transit: 10:30   67°</p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Gamma Cassiopeiae Nebula (SH2-185)</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="#">SH2-185</a>            Imaging Window: 06:59 – 02:24            Transit: 10:38   62°</p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 



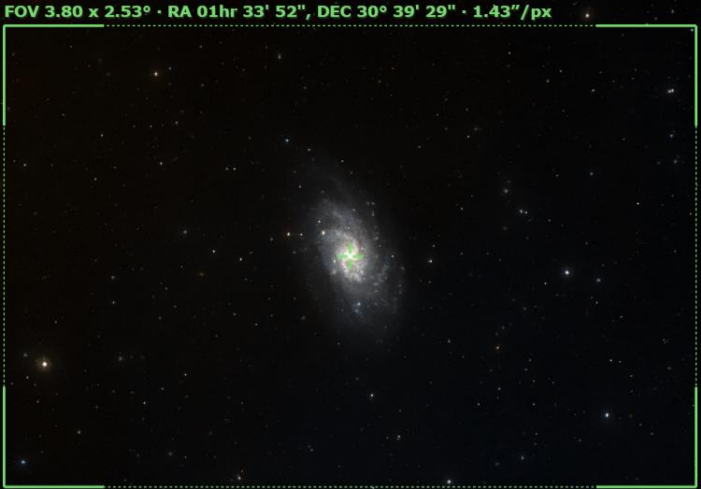
# Prospective Imaging Objects – November 01, 2024

<p><b>Gamma Cassiopeiae Nebula</b> (SH2-185) 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="#">SH2-185</a> Imaging Window: <b>06:59 – 02:24</b> Transit: <b>10:38   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>08:27 – 01:04</b> Transit: <b>10:42   59°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<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>07:09 – 02:30</b> Transit: <b>10:47   88°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – November 01, 2024




<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: <b>SAO-22268 (Ruchbah)</b>            Catalog Objects: <a href="#">NGC-457</a>            Imaging Window: <b>07:13 – 02:47</b>            Transit: <b>10:57   65°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Firefox Nebula (SH-2-188), Owl Cluster(NGC-457), NGC-436  <small>Constellation: Cassiopeia            RA: 01h 23m 38.12s, DEC: +58° 12' 54.12"</small></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: <b>SAO-22268 (Ruchbah)</b>            Catalog Objects: <a href="#">NGC-457</a>            Imaging Window: <b>07:13 – 02:47</b>            Transit: <b>10:57   65°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> <p style="font-size: x-small; color: green;">FOV 0.73 x 0.49° · RA 01h 19' 33", DEC 58° 17' 42"</p> 
<p><b>Minkowski's Object (Arp-133)</b>            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: <b>SAO-75151 (Hamal)</b>            Catalog Objects: <a href="#">ARP-133</a>            Imaging Window: <b>09:05 – 01:08</b>            Transit: <b>11:03   55°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> <p style="font-size: x-small; color: green;">FOV 0.73 x 0.49° · RA 01h 25' 27", DEC -01° 29' -3"</p> 

# Prospective Imaging Objects – November 01, 2024

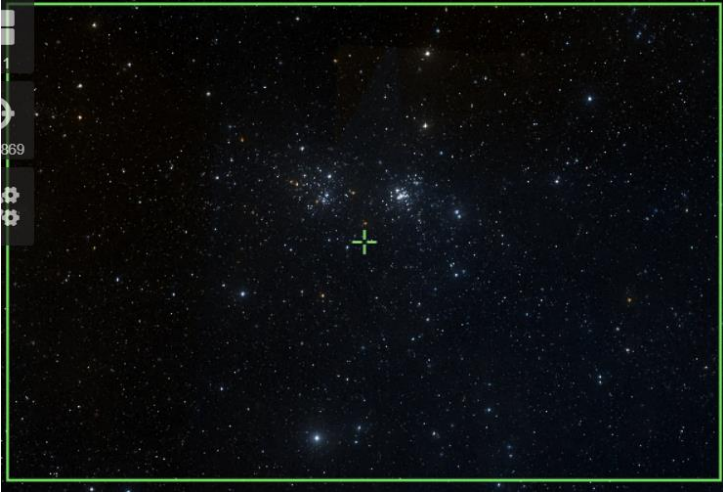


<p><b>Firefox Nebula</b> (<a href="#">Sh 2-188</a>)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Cassiopeia</b>            Coordinates:  <b>01h 31' 37"</b>  <b>58° 21' 22"</b></p> <p>Close Star: <b>SAO-22268 (Ruchbah)</b>            Catalog Objects: <a href="#">Sh 2-188</a></p> <p>Imaging Window: <b>07:24 – 02:58</b>            Transit: <b>11:08   65°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-103</b> (<a href="#">NGC-581</a>)            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: <b>ISO-22268 (Ruchbah)</b>            Catalog Objects: <a href="#">M-103</a>/NGC-581</p> <p>Imaging Window: <b>07:30 – 02:58</b>            Transit: <b>11:11   63°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Triangulum Galaxy</b> (<a href="#">M-33</a>)            Config: <b>C11   HS   ZWO6200MC</b></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>07:41 – 02:48</b>            Transit: <b>11:11   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> <p style="font-size: small; text-align: center;">FOV 3.80 x 2.53° · RA 01hr 33' 52", DEC 30° 39' 29" · 1.43"/px</p> 



# Prospective Imaging Objects – November 01, 2024

<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>08:13 – 02:21</b> Transit: <b>11:14   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 42.25s, DEC = +15deg 46' 50.03", Size = 42.7 x 28.9 arcmin (Pixel scale = 0.440 arcsecond) James Webb   Location(s): Messier Grounds (2020.10.11), Chandler (2020.10.19), AZ Constellation: Pisces Config:  C-11 HD Shade: Skyline   OPT 128x   Exposure Info: 1000x/3000s/1000s Gain: 2200 (Offset: 100)</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>/ NGC-650 Imaging Window: <b>07:32 – 03:13</b> Transit: <b>11:20   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 17.7s, DEC = +51deg 34' 16.7", Size = 36.8 x 24.5 arcmin (Orientation: 0.46deg E. of N.) (Pixel scale = 0.440 arcsecond) (F1 - 2000mm) James Webb   Location(s): Messier Grounds (2020.10.11), Chandler (2020.10.19), AZ Config:  C-11 HD Shade: Skyline   OPT 128x   Exposure Info: 1000x/3000s/1000s Gain: 2200 (Offset: 100)</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>08:28 – 02:51</b> Transit: <b>11:37   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 19.1s, DEC = +19deg 00' 27.1", Size = 45.8 x 24.5 arcmin (Orientation: 0.46deg E. of N.) (Pixel scale = 0.440 arcsecond) (F1 - 2000mm) James Webb   Location(s): Messier Grounds (2020.10.11), Chandler (2020.10.19), AZ Config:  C-11 HD Shade: Skyline   OPT 128x   Exposure Info: 1000x/3000s/1000s Gain: 2200 (Offset: 100)</p>

# Prospective Imaging Objects – November 01, 2024

<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>08:11 – 03:48</b>            Transit: <b>11:56   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>08:12 – 03:50</b>            Transit: <b>12:00   81°</b></p>	<p style="text-align: center;">Primary Focus</p>  <p><small>Edge On Spiral Galaxy NGC 891 James Yoder/2014.11.23</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>08:30 – 03:46</b>            Transit: <b>12:05   90°</b></p>	<p style="text-align: center;">Primary Focus</p>  <p><small>NGC-925            The Edge On Spiral Galaxy in Triangulum            © 2014 James Yoder. All rights reserved. May 2014. NGC-925 in Triangulum. 11/2014</small></p>

# Prospective Imaging Objects – November 01, 2024

## Fish Head Nebula (IC-1795)

Config: |C11-  
HD|FR|ZWO6200MC|

Type: **Bright Nebula**  
Constellation: **Cassiopeia**

Coordinates:  
**02h 27' 03"**  
**62° 02' 31"**

Close Star: **SAO-38787** (Mirfak)  
Catalog Objects: [IC-1795](#)

Imaging Window: **08:25 – 03:47**  
Transit: **12:03 | 87°**

CH11-HD **Focal Reducer**



## Heart and Soul Nebulas

Config: C11 | HS | ZWO6200MC

Type: **Diffuse Nebula**

Constellation: **Cassiopeia**

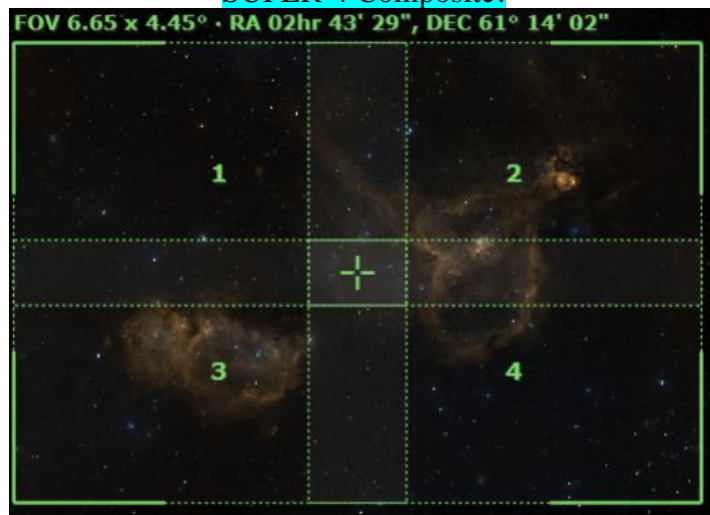
Coordinates (RA, DEC):  
Pane 1: **02hr 55' 41"**, **62° 09' 11"**  
Pane 2, **02hr 31' 16"**, **62° 09' 11"**  
Pane 3, **02hr 54' 58"**, **60° 15' 00"**  
Pane 4, **02hr 31' 59"**, **60° 15' 00"**

Close Star: **SAO-38787** (Mirfak)  
Catalog Objects: [IC-1848](#)

Imaging Window: **08:48 – 04:16**  
Transit: **12:29 | 63°**




C-11 HD: HyperStar v4

**SUPER-4 Composite!**










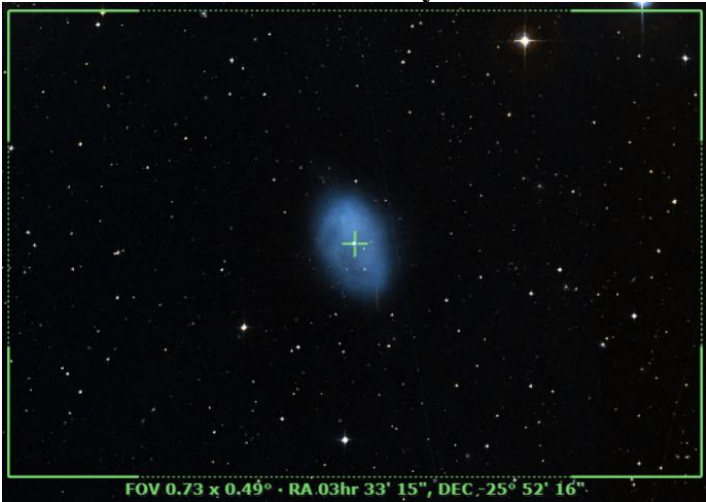
# Prospective Imaging Objects – November 01, 2024

<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>, NGC-1055,            NGC-1068</p> <p>Imaging Window: <b>10:15 – 02:32</b>            Transit: <b>12:20   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            1.5A=02h 42m 26.5s 1.0BC =-0deg 14' 13.0"   Size = 51.2 x 39.3 arcmin   Orientation: -90.5deg E of N   Pixel scale = 0.579 arcsec/pixel   FL=4956mm            James Yoder   Date(s) 2020-12-20, 21, 22   Location: Chandler, AZ            Config: C11-HD (0.7 Reducer)   Filter(s) Baader Skyglow, CLS-CCD, IDAS LPS-102   Camera: QHY130C              Exposure Info: 41 frame(s) / Gain: 3200   Offset: 100</p>
<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>10:12 – 02:33</b>            Transit: <b>12:19   57°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></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</b> (Algol)            Catalog Objects: <a href="#">M-34</a>/NGC-1039</p> <p>Imaging Window: <b>08:35 – 04:10</b>            Transit: <b>12:19   81°</b></p>	<p style="text-align: center;">Primary Focus</p> 




# Prospective Imaging Objects – November 01, 2024

<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>10:15 – 02:32</b>            Transit: <b>12:20   57°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<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>08:48 – 04:16</b>            Transit: <b>12:29   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;">             Image Date: 2018-09-20              Location: Chandler, AZ              Config:  C11 HyperStar Astronomik 128C ZWO128C               Exposure Info: 240min@5min   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>08:48 – 04:16</b>            Transit: <b>12:29   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;">             Image Date: 2018-11-09              Location: Chandler, AZ              Config:  C11 Seymour 12 Mirfak 180C3 ZWO128C               Exposure Info: 270min@5min   Gain: 1200   Offset: 180           </p>


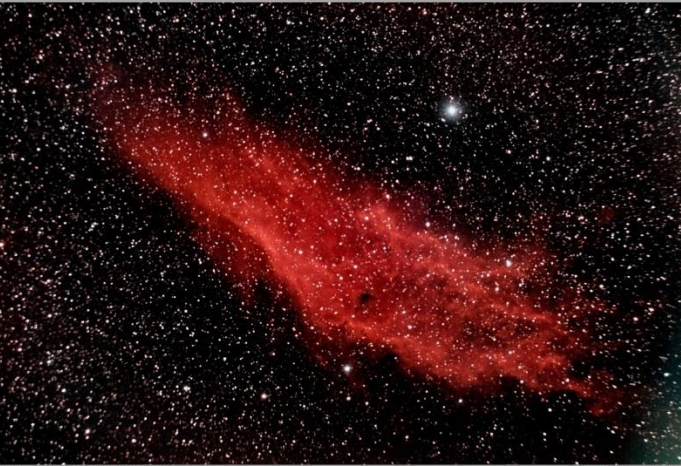

# Prospective Imaging Objects – November 01, 2024

<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</b> (Algol)            Catalog Objects: <a href="#">Abell-426</a>, NGC1275, 1278, 1272, Et. Et.</p> <p>Imaging Window: <b>09:14 – 04:47</b>            Transit: <b>12:57   82°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<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>09:35 – 04:44</b>            Transit: <b>01:06   88°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>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="#">NGC-1360</a></p> <p>Imaging Window: <b>*11:22 – 03:06</b>            Transit: <b>01:10   31°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – November 01, 2024

<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>09:49 – 05:01</b>            Transit: <b>01:22   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<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>10:05 – 04:50</b>            Transit: <b>01:24   55°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Pleiades (M 45)</b>            Config: <b>C11-HD   HS   ZWO6200MC</b></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>10:04 – 04:49</b>            Transit: <b>01:23   81°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 

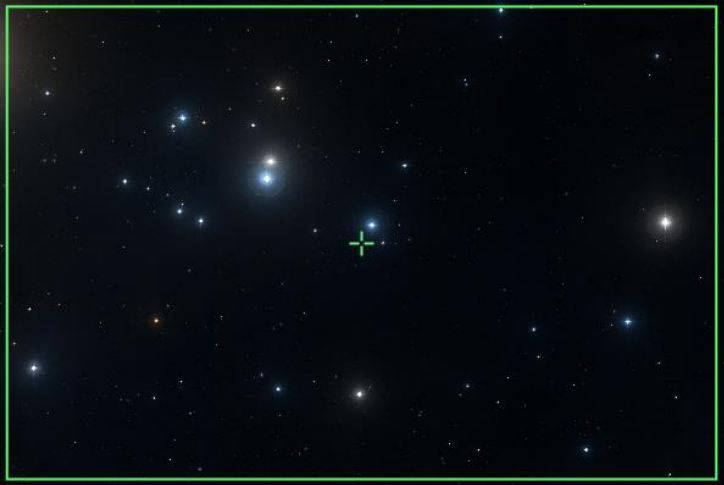

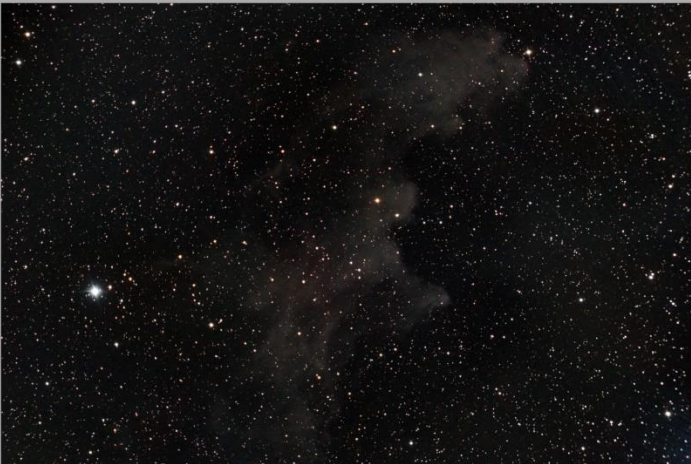
# Prospective Imaging Objects – November 01, 2024

<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>10:04 – 04:49</b>            Transit: <b>01:23   81°</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p>  <p style="font-size: small;">The Pleiades (M-45)            Constellation: Taurus            RA = 03h 46m 15.932s DEC = +24deg 12' 07.154" Size = 49.9 x 33.6 arcmin   Pixel scale = 0.582 arcsec/pixel</p> <p style="font-size: x-small; text-align: right;">James Yoder 2019 09 27            Location: Phoenix Crescent Trailhead, AZ            Config:  C1 LF ZWO6200MC  Filter: H-alpha   QHY128C            Exposure Info: 200img/5min Gain: 2500   Offset: 100</p>
<p><b>California Nebula (NGC 1499)</b>            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>10:02 – 05:23</b>            Transit: <b>01:40   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 Yoder 2019 08 31            Location: Chandler, AZ            Config:  C11 HyperStar Astronomik C11-S-C11 QHY128C            Exposure Info: 220img/5min Gain: 3200   Offset: 100</p>
<p><b>Oyster Nebula (NGC 1501)</b>            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: <b>SAO-038787 (Mirfak)</b>            Catalog Objects: <a href="#">NGC-1501</a></p> <p>Imaging Window: <b>10:04 – 05:23</b>            Transit: <b>01:44   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC-1501 (Oyster Nebula)            Constellation: Camelopardalis</p> <p style="font-size: x-small; text-align: right;">James Yoder   Date: 2021-12-10   Location: Chandler, AZ            Config:  C-11 HD KPT Triad Radian Ultra (ZWO 6200MC)            Exposure Info: 162 frames/2min Gain: 100   Offset: 50            RA = 04h 06m 06.2s DEC = +60deg 55' 03.3" Size = 18.5 x 13.9 arcmin   Orientation: 0.5deg E of N   Pixel scale = 0.277 arcsec/pixel   FL=300mm</p>

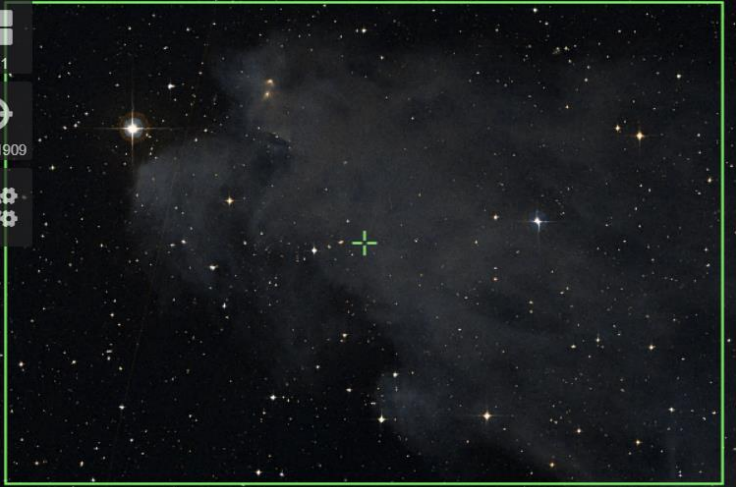


# Prospective Imaging Objects – November 01, 2024

<p><b>Crystal Ball Nebula (NGC 1514)</b> 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: <b>SAO-56799</b> Catalog Objects: <a href="#">NGC-1514</a></p> <p>Imaging Window: <b>10:16 – 05:23</b> Transit: <b>01:46   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC-1514 (Crystal Ball Nebula) Constellation: Taurus RA = 04h 09m 17.00s DEC = +30deg 46' 35.00" Size = 18.5 x 11.8 arcmin Orientation: 0.4deg E of N Pixel scale = 0.278 arcseconds (FL = 2000mm)</p> <p style="font-size: x-small; text-align: right;">James Yoder   Date(s) 2024.12.09   Location: Chandler, AZ Config:  C-11 HD ZWO6200MC  Exposure Info:   44 Base/2min   Gain: 100   Offset: 50</p>
<p><b>Cleopatra's Eye (NGC 1535)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b> Constellation: <b>Eridanus</b> Coordinates: <b>04hr 14' 16"</b> <b>-12° 44' 20"</b></p> <p>Close Star: <b>SAO-131907</b> (Rigel) Catalog Objects: <a href="#">NGC-1535</a></p> <p>Imaging Window: <b>*11:45 – 03:59</b> Transit: <b>01:51   44°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Planetary Nebula NGC-1535 (Cleopatra's Eye) Constellation: Eridanus RA = 04h 14m 16.00s DEC = -12deg 44' 20.00" Size = 11.0 x 11.5" Orientation: 0.0deg E of N Pixel scale = 0.278 arcseconds (FL = 2000mm)</p> <p style="font-size: x-small; text-align: right;">James Yoder   Date(s) 2024.12.09   Location: Chandler, AZ Config:  C-11 HD ZWO6200MC  Exposure Information: 30min/2min   Gain: 100   Offset: 50</p>
<p><b>Hind's Variable Nebula (NGC 1555)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b> Constellation: <b>Taurus</b> Coordinates: <b>04hr 21' 54"</b> <b>19° 32' 00"</b></p> <p>Close Star: <b>SAO-94027</b> (Aldebaran) Catalog Objects: <a href="#">NGC-1555</a></p> <p>Imaging Window: <b>10:50 – 05:15</b> Transit: <b>01:59   76°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> <p style="text-align: center; color: green; font-weight: bold;">FOV 0.73 x 0.48° · RA 04hr 21' 54", DEC 19° 32' 00"</p>  <p style="font-size: small;">Hind's Variable Nebula NGC-1555 Constellation: Taurus RA = 04h 21m 54.00s DEC = 19deg 32' 00.00" Size = 11.0 x 11.5" Orientation: 0.0deg E of N Pixel scale = 0.278 arcseconds (FL = 2000mm)</p> <p style="font-size: x-small; text-align: right;">James Yoder   Date(s) 2024.12.09   Location: Chandler, AZ Config:  C-11 HD ZWO6200MC  Exposure Information: 30min/2min   Gain: 100   Offset: 50</p>



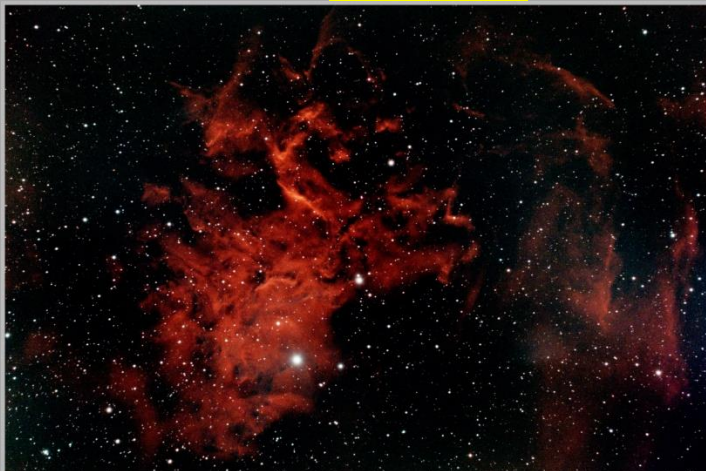
# Prospective Imaging Objects – November 01, 2024

<p><b>Hyades</b> (Mel 25)            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Open Cluster</b>            Constellation: <b>Taurus</b>            Coordinates:  <b>04hr 26' 34"</b>  <b>15° 31' 39"</b></p> <p>Close Star: SAO-56840            Catalog Objects: <a href="#">Mel 25</a></p> <p>Imaging Window: <b>11:03 – 05:17</b>            Transit: <b>02:07   73°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>Trifid of the North</b> (NGC 1579)            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>10:30 – 05:23</b>            Transit: <b>02:07   88°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Witch Head Nebula</b> (IC 2118)            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>*12:11 – 05:17</b>            Transit: <b>02:39   49°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p><small>Witch Head Nebula (IC-2118)            Constellation: Eridanus              RA = 05h 05m 19.872s DEC = -06deg 56' 00.365"   Size = 2.66 x 1.78 deg   Pixel scale = 2.27 arcsec/pixel  </small></p> <p><small>James Yoder 2019-09-25 Location: Chandler, AZ            Config:  C11  HyperStar   Baader Skyliner   QHY 236              Exposure Info:  54frames@90s   Gain: 3200   Offset: 180  </small></p>


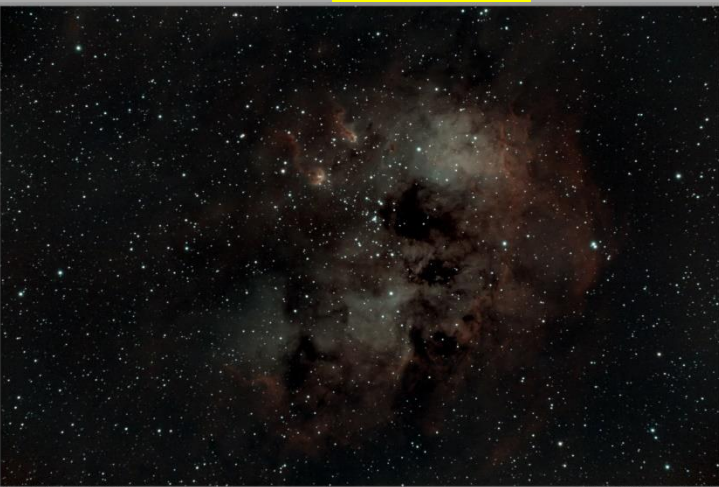

# Prospective Imaging Objects – November 01, 2024

<p><b>Witch Head Nebula</b> (IC 2118)            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: *12:11 – 05:17            Transit: 02:39   49°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Foxface Nebula</b> (NGC 1788)            Config:  C11 HS ZWO6200MCc </p> <p>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: 12:57 – 04:38            Transit: 02:44</p>	<p style="text-align: center;"><b>Hyperstar</b></p> <p style="text-align: center;">FOV 3.80 x 2.54° · RA 05hr 06' 10", DEC -04° 04' 26"</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: 12:57 – 04:38            Transit: 02:44</p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 



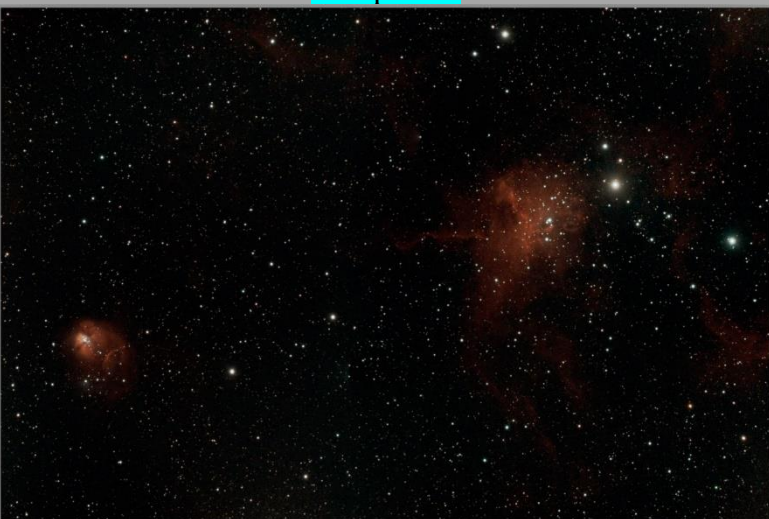
# Prospective Imaging Objects – November 01, 2024

<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>12:57 – 04:38</b>            Transit: <b>02:44</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Flaming Star Nebula</b> (IC-405)            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>11:19 – 05:23</b>            Transit: <b>02:54   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</p> <p style="font-size: x-small;"> <small>             James Webb (Doris) 2021.01.02   Location: Chandler, AZ /              Config: C-11HD HyperStar v4   AmScope C5.5 CCD   QHY170C                (RA = 05h 19m 35.62s   DEC = +33deg 49' 10.20"   Star: 1.8x 2.28-sec   Peak rate: 2.28 (overexposed)                Exposure info: 47through/Star   Gain: 2000   08Sep   180           </small> </p>
<p><b>Flaming Star Nebula</b> (IC 405)            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>11:19 – 05:23</b>            Transit: <b>02:54   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</p> <p style="font-size: x-small;"> <small>             James Webb (Doris) 2021.01.02   Location: Chandler, AZ /              Config: C-11 HD   Focal Reducer   Filter: Optolong L-Extreme   Camera: QHY170C                (RA = 05h 15m 55.10s   DEC = +34deg 27' 32.11"   Star = 18.8 x 41.7 arcsec   Orientation: Mag E of N   Pixel scale = 0.629 arcsecond   FL = 1907mm                Exposure info: 47through/Star   Gain: 2000   08Sep   180           </small> </p>




# Prospective Imaging Objects – November 01, 2024

<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>11:19 – 05:23</b>            Transit: <b>02:54   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<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>11:25 – 05:23</b>            Transit: <b>02:59   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)  <small>Constellation: Auriga        RA = 05h 22m 55.355s, DEC = +33deg 23' 32.48"</small></p> <p style="font-size: x-small; text-align: right;">Image Name: Tadpo20241101_01 Location: Cheshire, AZ      Config: C-11-HD / F7 Reducer / Filter: Optolong L-Extreme / Camera: ORV128C      Exposure Info: 210ms/Frame (Gain: 3200) 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>11:25 – 05:23</b>            Transit: <b>02:59   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)  <small>Constellation: Auriga        RA = 05h 22m 35.015s, DEC = +33deg 23' 03.015"</small></p> <p style="font-size: x-small; text-align: right;">Image Name: Tadpo20241101_02 Location: Cheshire, AZ      Config: C-11 HD / Astronomik CLS-CCD / ORV128C      Exposure Info: 210ms/Frame (Gain: 3200) Offset: 100</p>

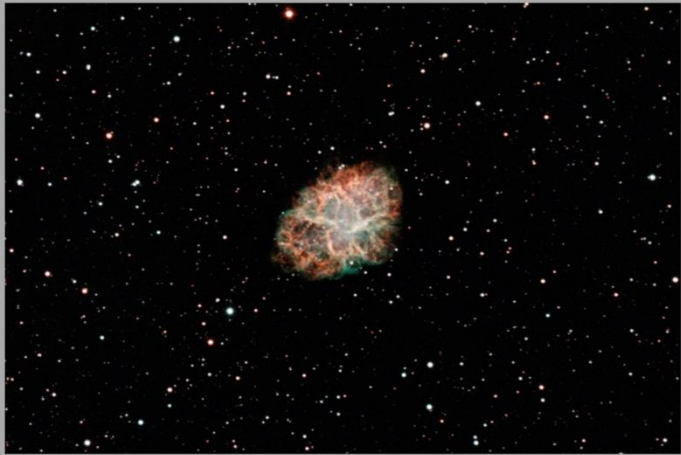

# Prospective Imaging Objects – November 01, 2024

<p><b>M-79 (NGC-1904)</b>            Config:  C11HD 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: *01:03 – 05:10            Transit: 03:01   32°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Spirograph Nebula (IC 418)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Constellation: <b>Lepus</b>            Coordinates:  <b>05hr 27' 28"</b>  <b>-12° 41' 48"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">IC-418</a></p> <p>Imaging Window: *12:59 – 05:10            Transit: 03:04   44°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>The Spider and the Fly (M-77, NGC-1055, NGC-1931)</b>            Config:  C11-            HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Auriga</b></p> <p><b>Camera Rotation - 90°</b></p> <p>Frame 01            RA: 05hr 30' 44"DEC: 34° 20' 41"            Frame 02            RA: 05hr 27' 55"DEC: 34° 20' 41"</p> <p>Close Star: SAO-77168 (Elnath)            Catalog Objects: <a href="#">IC-417</a>, <a href="#">NGC-1931</a></p> <p>Imaging Window: 11:30 – 05:23            Transit: 03:05   89°</p>	<p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b>  <b>Composite!</b></b></p>  <p><small>The Spider and the Fly (IC-417 &amp; NGC-1931)            Constellation: Auriga            RA: 05h 29m 17.5s DEC: -10deg 37' 34.30" Star: 60.0 x 45.3 pixels Observation: 6.5Mag E-oV. Pixel scale: 8.428 arcsecond / 11.107frame            Image Scale: (0.0001500, 0.150, 0.15) (Latitude Channel: 01)            Config: C11HD117Reducer  Star: Openbox L-Astronix  Camera: QHY128M            Exposure: 10s  Filter:  Observation: 0.0000  Mount: iOptron 1102</small></p>

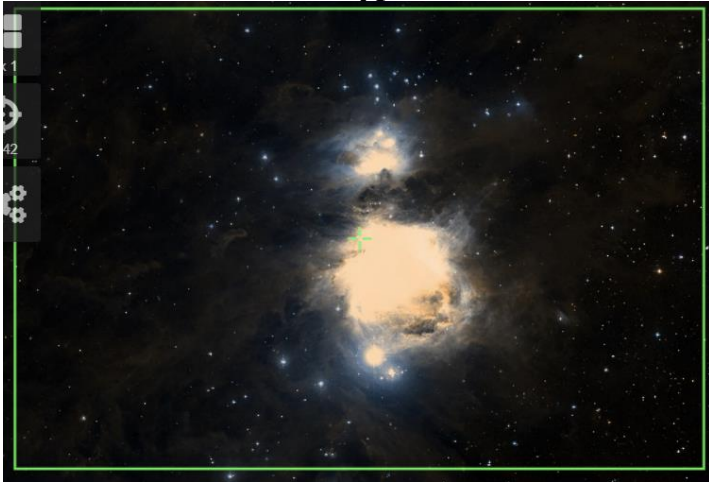


# Prospective Imaging Objects – November 01, 2024

<p><b>The Spider (IC 417)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b> Peak: Constellation: <b>Auriga</b> Coordinates: <b>05hr 28' 03"</b> <b>34° 22' 58"</b></p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: <a href="#">IC 417</a></p> <p>Imaging Window: <b>11:30 – 05:23</b> Transit: <b>03:05   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<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>11:28 – 05:23</b> Transit: <b>03:05   88°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p><small>M-38 Starfish Cluster</small></p> <p><small>James Yoder 2019.09.30</small></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>11:33 – 05:23</b> Transit: <b>03:08   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – November 01, 2024

<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>11:57 – 05:23</b>            Transit: <b>03:11   79°</b></p>	<p style="text-align: center;">Primary Focus</p>  <p style="font-size: small; text-align: center;">Crab Nebula (Messier-1)  <small>James Yoder   Date(s) 2022-02-05, 07, 08, 09, 10   Location: Chandler, AZ              Constellation: Taurus   RA = 05h 34m 31.5s   DEC = +22deg 00' 34.4"   Size = 31.5 x 21.0 arcmin   Orientation: -0.34deg   Pixel scale = 0.447 arcsec/pixel   FL=2756mm              Config: C-11 HD   Filter: OFF   Filter Ultra (QSI128)   Exposure Info: (756ms)(4min)   Gain: 3200   OBST: 180</small></p>
<p><b>The Orion Complex</b>            Config: C11   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:            Frame 01            RA: <b>05hr 43' 42"</b> DEC: <b>-01° 01' 06"</b>            Frame 02            RA: <b>05hr 31' 05"</b> DEC: <b>-01° 01' 06"</b>            Frame 03            RA: <b>05hr 43' 42"</b> DEC: <b>-03° 07' 35"</b>            Frame 04            RA: <b>05hr 31' 04"</b> DEC: <b>-03° 07' 35"</b>            Frame 05            RA: <b>05hr 43' 43"</b> DEC: <b>-05° 14' 05"</b>            Frame 06            RA: <b>05hr 31' 04"</b> DEC: <b>-05° 14' 05"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">M-42</a></p> <p>Imaging Window: <b>12:29 – 05:23</b>            Transit: <b>03:12</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b>  <b>SUPER-6 Composite!</b></p> <p style="text-align: center; color: green; font-weight: bold;">FOV 6.95 x 6.76° - RA 05hr 37' 23", DEC -03° 07' 40"</p> 

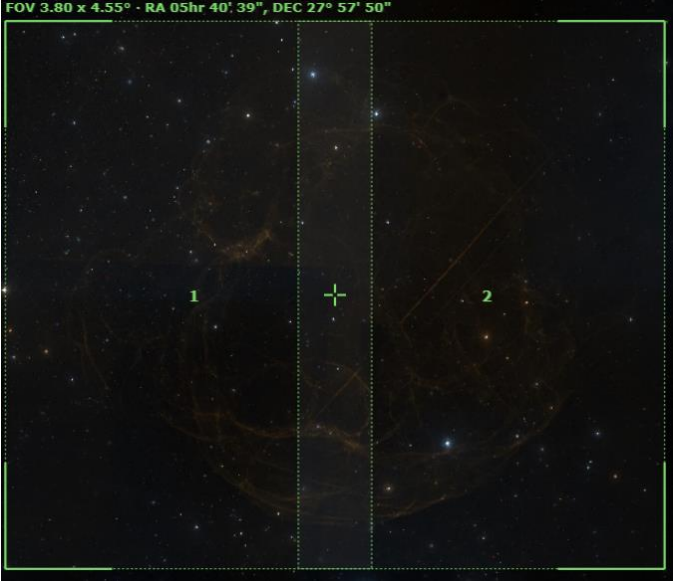
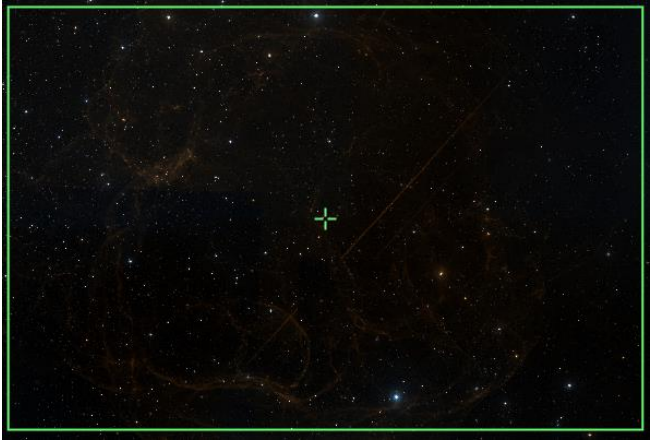
# Prospective Imaging Objects – November 01, 2024

<p><b>The Orion Nebula (M 42)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 35' 46"</b>  <b>-05° 15' 34"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">M-42</a></p> <p>Imaging Window: <b>12:29 – 05:23</b>            Transit: <b>03:12</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>The Orion Nebula (M 42)</b>            Config: C6-SE   HS   ZWO6200MC (Cropped)</p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 35' 18.4"</b>  <b>-05° 23' 51.0"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">M-42</a></p> <p>Imaging Window: <b>12:29 – 05:23</b>            Transit: <b>03:12</b></p>	<p style="text-align: center;"><b>C6-SE: HyperStar v4</b></p>  <p style="font-size: small;">Orion Nebula (M-42)            Constellation: Orion the Hunter            RA: 05h 35m 18.40s - Dec: -05° 23' 51.0" - Size: 4.41 x 3.97 deg (Distance: 1344y, P.A. 160°) - 11/1/2024 (F1 - 10min)</p> <p style="font-size: x-small; text-align: right;">James Webb   Dec: 2024-09-01   Location: Chandler AZ            Config: C-6-SE   HyperStar V4   OPT Filter: H-alpha, H-beta, H-gamma, H-delta, H-epsilon, H-zeta            Exposure: 112 (Stacked)   Gain: 100</p>
<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>12:29 – 05:23</b>            Transit: <b>03:12</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p>  <p style="font-size: small;">Orion Nebula (M-42)            Constellation: Orion</p> <p style="font-size: x-small; text-align: right;">James Webb   Dec: 2024-09-01   Location: Chandler AZ            Config: C-11   Orion LF Filter   170000 Filter   170000 Filter            Exposure: 510min (Total)   Gain: 5000   Offset: 180</p>




# Prospective Imaging Objects – November 01, 2024

<p><b>Running Man Nebula (NGC 1977)</b>            Config:  C6-HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 35' 18.1"</b>  <b>-04° 41' 25.9"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">NGC-1977</a></p> <p>Imaging Window: <b>01:35 – 05:23</b>            Transit: <b>03:12   52°</b></p>	<p style="text-align: center;"><b>C-6SE: Primary Focus</b></p>  <p style="font-size: small;">Running Man Nebula (NGC-1977)            © Copyright © Orion the Hunter            RA = 05h 35m 18.1s Dec = -04d 41m 25.9s Alt = 31.4arcmin Orientation: 0 deg E of N. Pixel scale = 0.31 arcsecond (1.1x1.93arcmin)            James Webb   Date: 2024-08-21   Location: Chandler, AZ            Config: C-6SE   OPT Redux Tool Box   ZWO6200MC            Exposure: 60   120 frames   Gain: 100</p>
<p><b>Running Man Nebula (NGC 1977)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 35' 27"</b>  <b>-04° 53' 09"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">NGC-1977</a></p> <p>Imaging Window: <b>01:35 – 05:23</b>            Transit: <b>03:12   52°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-36 (NGC-1960)</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>11:08 – 05:23</b>            Transit: <b>03:13   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Open Star Cluster (M-36, NGC-1960)            Constellation: Auriga            © Copyright © Orion the Hunter            RA = 05h 36m 18.1s Dec = 34d 08m 27.1s Alt = 31.4arcmin Orientation: 0 deg E of N. Pixel scale = 0.31 arcsecond (1.1x1.93arcmin)            James Webb   Date: 2024-08-21   Location: Chandler, AZ            Config: C-11 HD   OPT Redux Tool Box   ZWO6200MC            Exposure: 60   120 frames   Gain: 100</p>




# Prospective Imaging Objects – November 01, 2024

<p><b>Simeis 147</b> (SH2-240)          Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b>          Constellation: <b>Taurus</b></p> <p><b>Camera Rotation - 90°</b>          Coordinates:          Frame 01          RA: 05hr 45' 38" DEC: 27° 56' 31"          Frame 02          RA: 05hr 36' 28" DEC: 27° 56' 31"</p> <p>Close Star: <b>SAO-77168</b> (Elnath)          Catalog Objects: <a href="#">SH2-240</a></p> <p>Imaging Window: <b>11:52 – 05:23</b>          Transit: <b>03:18   85°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b>  <b>Composite-2</b></p>  <p>FOV 3.80 x 4.55° - RA 05hr 40' 39", DEC 27° 57' 50"</p>
<p><b>Simeis 147</b> (SH2-240)          Config: C11-HD   HS   ZWO6200MC</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>11:52 – 05:23</b>          Transit: <b>03:18   85°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 

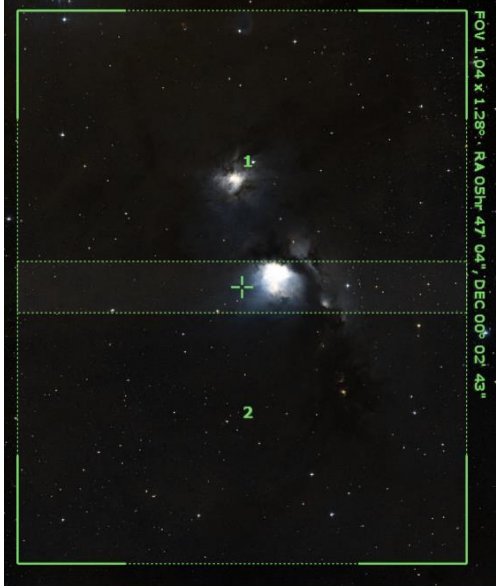

# Prospective Imaging Objects – November 01, 2024

<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>01:23 – 05:23</b> Transit: <b>03:18   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><b>Flame Nebula (NGC 2024)</b> Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b> Peak: Constellation: <b>Orion</b> Coordinates: <b>05hr 41' 30"</b> <b>-01° 45' 21"</b></p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: <a href="#">NGC-2024</a></p> <p>Imaging Window: <b>01:23 – 05:23</b> Transit: <b>03:18   55°</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 05hr 41' 30", DEC -01° 45' 21"</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>01:23 – 05:23</b> Transit: <b>03:18   55°</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>


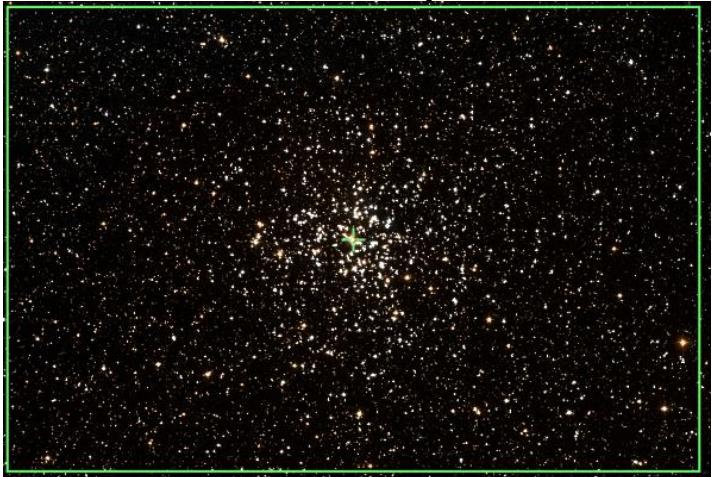

# Prospective Imaging Objects – November 01, 2024

<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>01:26 – 05:23</b>            Transit: <b>03:18   54°</b></p>	<p style="text-align: center;">Primary Focus</p>  <p style="font-size: small;">Horsehead Nebula (IC-434)            Constellation: Orion</p> <p style="font-size: x-small; text-align: right;">James Yoder - 2018.12.08            Location: Chandler, AZ            Config:  C1 Starizona L.F.Reducer + Filter Wheel + ZWO6200MC             Exposure Info: 200x30sec/Frame Gain: 1200 (Offset: 100)</p>
<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>12:38 – 05:23</b>            Transit: <b>03:19   66°</b></p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">NGC-2022            Constellation: Orion</p> <p style="font-size: x-small; text-align: right;">James Yoder   Director   2020.12.09.18   Location: Chandler, AZ            Config:  C-11 HD EXP1 Third Ultra   ZWO6200MC             Exposure Info: 5x 10sec/2.0min/Frame Gain: 100 (Offset: 50)            [RA = 05h 42m 06.6s DEC = +09deg 04' 54.9"] Size = 18.5 x 13.9 arcmin   Orientation: 0.4deg E of N   Pixel scale = 0.277 arcsec/pixel   FL = 2800mm  </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>12:07 – 05:23</b>            Transit: <b>03:19   54°</b></p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Galaxy Cluster (NGC-1961 et al.)            Constellation: Camelopardalis</p> <p style="font-size: x-small; text-align: right;">James Yoder - 2019.10.25            Location: Mountain View, Chandler, AZ            Config:  C-11 HD (OFT) 12K             Exposure Info: 10x 10sec/2.0min/Frame Gain: 100 (Offset: 100)</p>

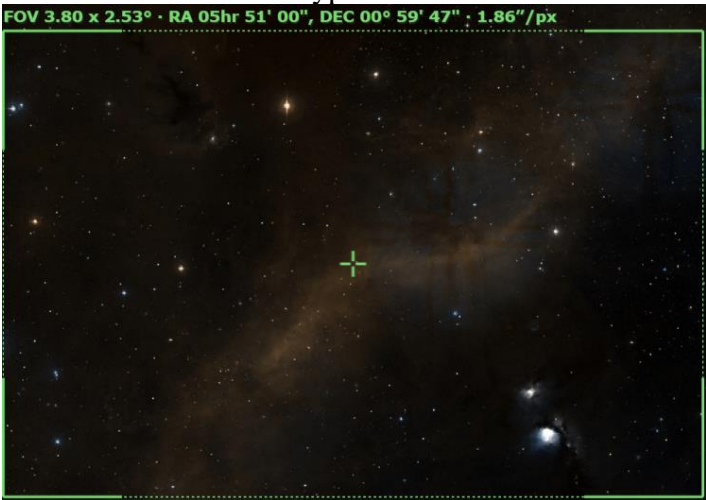
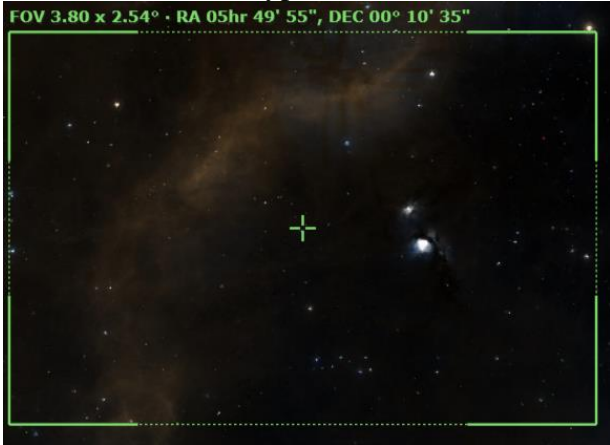

# Prospective Imaging Objects – November 01, 2024

<p><b>M-78</b>          Config:  C11-          HD FR 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>01:18 – 05:23</b>          Transit: <b>03:23</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b>  <b>Composite!</b></p> 
<p><b>M-78</b>          Config:  C11-          HD FR 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>01:18 – 05:23</b>          Transit: <b>03:23</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 


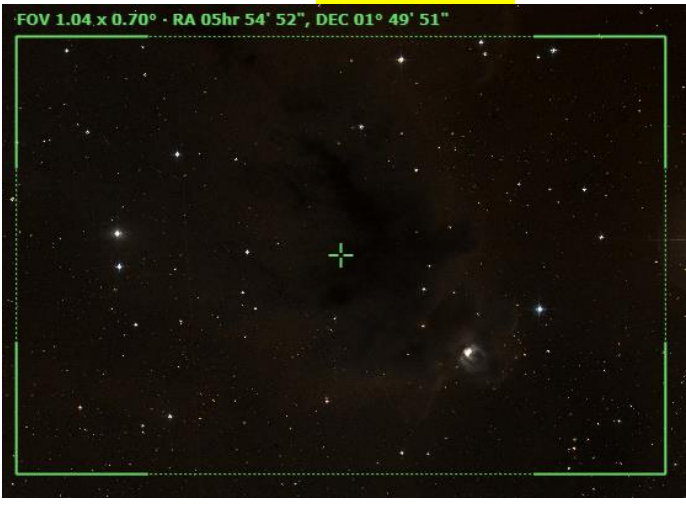

# Prospective Imaging Objects – November 01, 2024

<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 (Anilam)          Catalog Objects: <a href="#">M-78</a></p> <p>Imaging Window: <b>01:18 – 05:23</b>          Transit: <b>03:23</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>11:56 – 05:23</b>          Transit: <b>03:29   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</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:          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 (Anilam)          Catalog Objects: <a href="#">LDN-1622</a></p> <p>Imaging Window: <b>01:18 – 05:23</b>          Transit: <b>03:31   59°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b>  <b>Composite!</b></p> 



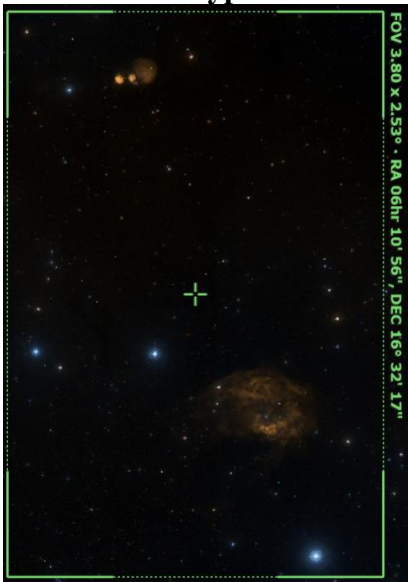
# Prospective Imaging Objects – November 01, 2024

<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 (Annilam)            Catalog Objects: <a href="#">LDN-1622</a>            Imaging Window: <b>01:18 – 05:23</b>            Transit: <b>03:31   59°</b></p>	<p style="text-align: center;">HyperStar</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 (Annilam)            Catalog Objects: <a href="#">LDN-1622</a>            Imaging Window: <b>01:18 – 05:23</b>            Transit: <b>03:31   59°</b></p>	<p style="text-align: center;">HyperStar</p> 
<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>01:18 – 05:23</b>            Transit: <b>03:31   59°</b></p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 

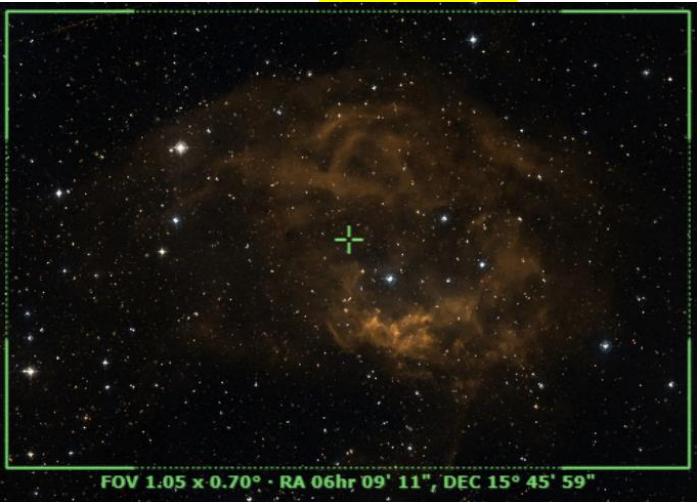


# Prospective Imaging Objects – November 01, 2024

<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>01:18 – 05:23</b> Transit: <b>03:31   59°</b></p>	<p><b>C-11 HD: Focal Reducer</b> <b>Composite!</b></p> 
<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>01:18 – 05:23</b> Transit: <b>03:31   59°</b></p>	<p><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 (Anilam) Catalog Objects: <a href="#">LDN-1622</a></p> <p>Imaging Window: <b>01:18 – 05:23</b> Transit: <b>03:31   59°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 

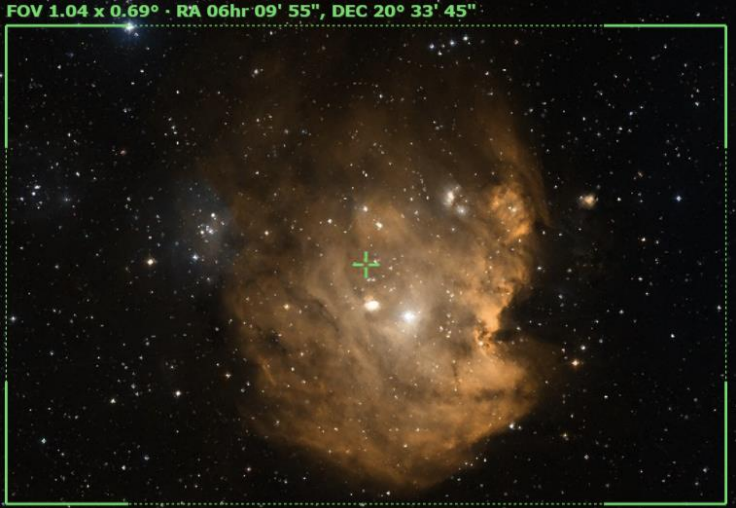


# Prospective Imaging Objects – November 01, 2024

<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>02:19 – 05:23</b>            Transit: <b>03:44</b></p>	<p><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Angel Nebula (NGC 2170)</b>            Config:  C11-HD  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>02:19 – 05:23</b>            Transit: <b>03:44</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p><small>Angel Nebula (NGC-2170)            Constellation: Monoceros            RA: 06h 08m 26s, DEC: -06° 25' 24" (Size = 1.2 x 1.2 arcmin) (Orientation: Right of N, Dist scale = 0.40 arcmin/pixel) (11/09/2024)</small></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>12:46 – 05:23</b>            Transit: <b>03:45   72°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p> 


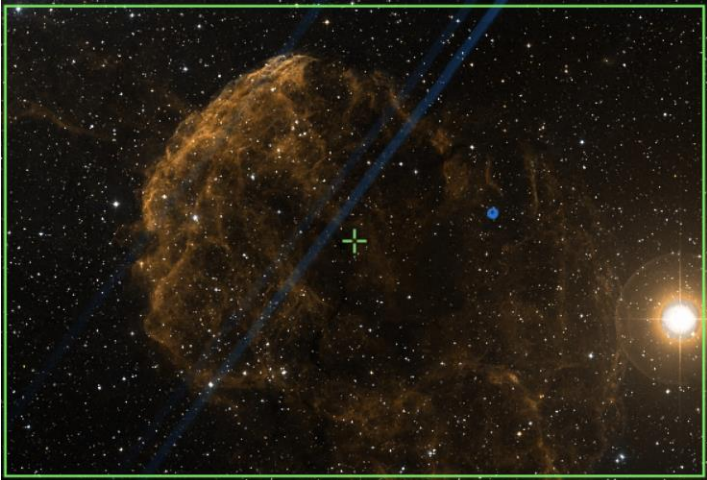

# Prospective Imaging Objects – November 01, 2024

<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>12:46 – 05:53</b>            Transit: <b>03:45   72°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="text-align: center; font-size: small;">FOV 1.05 x 0.70° · RA 06hr 09' 11", DEC 15° 45' 59"</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 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>12:46 – 05:53</b>            Transit: <b>03:45   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>12:27 – 05:23</b>            Transit: <b>03:46   81°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 

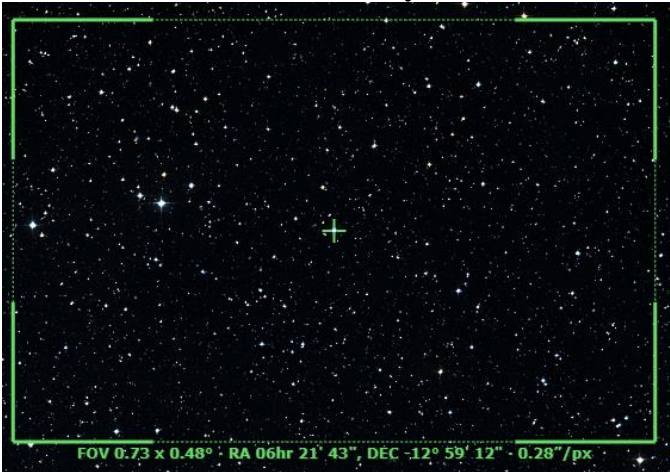


# Prospective Imaging Objects – November 01, 2024

<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>12:35 – 05:23</b>            Transit: <b>03:46   77°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<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>12:35 – 05:23</b>            Transit: <b>03:46   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)            James Yee 2024-02-14            Constellation: Orion Location: Chandler, AZ            RA = 06h 09m 49.310s, DEC = +20deg 29' 52.185" Size = 33.1 x 26.0 arcmin   Pixel scale = 0.446 arcsec/pixel   F1 = 2.72mm            Config:  C-11 HD Astromaster C11ACD3 QHY128L            Exposure: 180   27 Frames/Frame Size: 3200   100%   180</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>12:44 – 05:23</b>            Transit: <b>03:50   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 24.660s, DEC = +17deg 59' 18.210" Size = 42.3 x 23.85 arcmin   Pixel scale = 0.443 arcsec/pixel            Config:  C-11 HD Astromaster C11ACD3 QHY128L            Exposure: 180   27 Frames/Frame Size: 3200   100%   180</p>



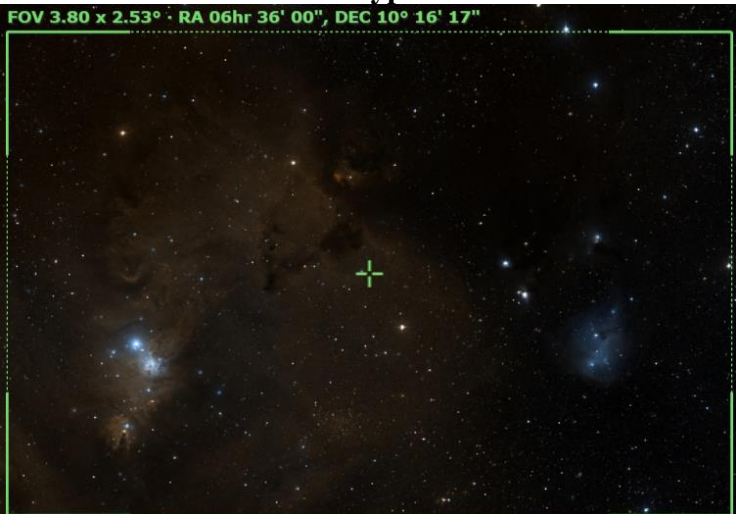
# Prospective Imaging Objects – November 01, 2024

<p><b>Jellyfish Nebula (IC 443)</b>            Config: C11-HD   HS   ZWO6200MC</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>12:39 – 05:23</b>            Transit: <b>03:54   79°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small; text-align: center;">Jellyfish Nebula (IC-443)            Constellation: Gemini            RA = 23h 19m 25.0s, DEC = +06deg 31' 18.6"   Size = 3.14 x 2.89 deg   Orientation: 0deg E of N   Pixel scale = 2.28 arcsecond   FL = 540mm            James Taylor   Date: 2023-10-21   Location: Chandler, AZ            Config: C-11 HD   HyperStar V4   Astronomik CLS-CDD   QHY128C            Exposure info: 21frames@30s   Gain: 3200   Offset: 100</p>
<p><b>Jellyfish Nebula (IC 443)</b>            Config:  C11-HD <b>FR</b> 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>12:39 – 05:23</b>            Transit: <b>03:54   79°</b></p>	<p style="text-align: center;"><b>C11-HD: 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>12:39 – 05:23</b>            Transit: <b>03:54   79°</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p>  <p style="font-size: small; text-align: center;">Jellyfish nebula (IC 443)            Constellation: Gemini            James Taylor   Location: Chandler, AZ            Config: C-11   Starizona LF Corrector   QHY128C Star   QHY128C            Exposure info: 100frames@30s   Gain: 3200   Offset: 100</p>

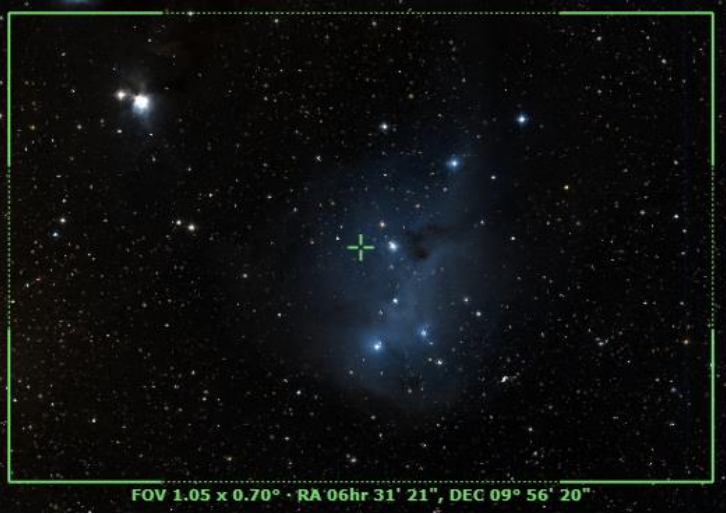


# Prospective Imaging Objects – November 01, 2024

<p><b>IC-2165</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b> Peak: Constellation: <b>Canis Major</b> Coordinates: <b>06hr 21' 43"</b> <b>-12° 59' 12"</b></p> <p>Close Star: Catalog Objects: <a href="#">IC-2165</a></p> <p>Imaging Window: *01:55 – 05:23 Transit: <b>03:58</b>   44°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></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: 12:43 – 05:23 Transit: <b>03:59</b>   80°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<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: 01:41 – 05:23 Transit: <b>04:07</b>   62°</p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 

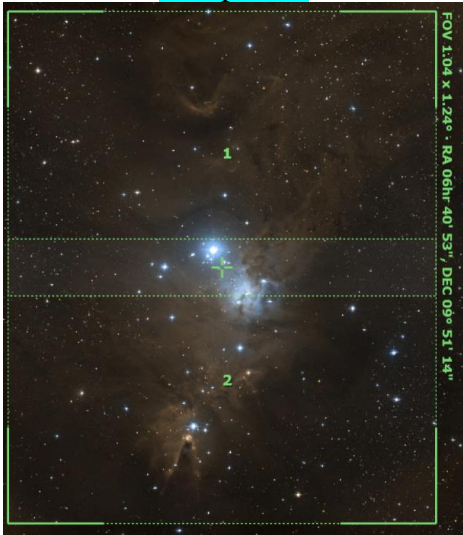
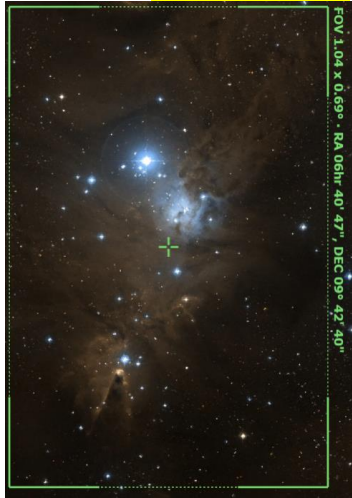

# Prospective Imaging Objects – November 01, 2024

<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>01:41 – 05:23</b>          Transit: <b>04:07   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>01:41 – 05:23</b>          Transit: <b>04:07   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<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>01:24 – 05:23</b>          Transit: <b>04:08   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> <p style="font-size: small; text-align: center;">FOV 3.80 x 2.53° - RA 06hr 36' 00", DEC 10° 16' 17"</p> 




# Prospective Imaging Objects – November 01, 2024

<p><b>IC 2169</b>            Config:  C11-            HD FR 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>01:24 – 05:23</b>            Transit: <b>04:08   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>01:24 – 05:23</b>            Transit: <b>04:08   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Hubble's Variable Nebula (NGC 2261)</b>            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>01:36 – 05:23</b>            Transit: <b>04:16   65°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – November 01, 2024

<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", 10° 07' 47"</b>            Pane 2, <b>06hr 40' 53", 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>01:34 – 05:23</b>            Transit: <b>04:17   67°</b></p>	<p><b>C-11 HD: Focal Reducer</b>  <b>Composite!</b></p> 
<p><b>Christmas Tree &amp; Cone</b>            Config:  C11-            HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:</p> <p>Constellation: <b>Monoceros</b></p> <p>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>01:34 – 05:23</b>            Transit: <b>04:17   67°</b></p>	<p><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Christmas Tree Cluster</b> (<a href="#">NGC 2264</a>)            Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:</p> <p>Constellation: <b>Monoceros</b></p> <p>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>01:34 – 05:23</b>            Transit: <b>04:17   67°</b></p>	<p><b>Primary Focus</b></p> 




# Prospective Imaging Objects – November 01, 2024

<p><b>Christmas Tree &amp; Cone</b>            Config:  C6FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 40' 51.6"</b>  <b>09° 40' 25.2"</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>01:34 – 05:23</b>            Transit: <b>04:17   67°</b></p>	<p style="text-align: center;"><b>C-6 HD: Focal Reducer</b></p>  <p style="font-size: small;">NGC-2264 (Cone &amp; Christmas Tree Nebula)  <small>Constellation: Monoceros            [RA = 06h 40m 51.6s, DEC = +09deg 40' 25.2"] Size = 55.0 x 36.7 arcmin   Orientation: 270deg E of N   Pixel scale = 0.667 arcsec/pixel   FL=1166mm</small></p> <p style="font-size: x-small; text-align: right;">Name: Vixen   Date(s): 2024-09-26-27   Location: Chandler, AZ            Config:  C-6SE 0.63 Focal Reducer OPT Reducer Triad Ultra ZWO6200MC             Exposure Info:  133.frm@2min Gain: 100 </p>
<p><b>Cone Nebula-1 (NGC 2264)</b>            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>/Sh 2-273</p> <p>Imaging Window: <b>01:34 – 05:23</b>            Transit: <b>04:17   67°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-41 (NGC 2287)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b>            Constellation: <b>Canis Major</b>            Coordinates:  <b>06hr 46' 09"</b>  <b>20° 47' 35"</b></p> <p>Close Star: <b>SAO-151881</b> (Sirius)            Catalog Objects: <a href="#">M-41</a>/NGC 2287</p> <p>Imaging Window: <b>*01:52 – 05:23</b>            Transit: <b>04:23   36°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – November 01, 2024

<p><b>M-50</b> (NGC 2323)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b>            Constellation: <b>Monoceros</b>            Coordinates:  <b>07hr 02' 48"</b>  <b>-08° 22' 33"</b></p> <p>Close Star: <b>SAO-151881</b> (Sirius)            Catalog Objects: <a href="#">M-50</a>/NGC 2323</p> <p>Imaging Window: *02:10 – 05:23            Transit: 04:39   48°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Seagull Nebula</b> (IC-2177)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>07hr 06' 20"</b>  <b>-11° 06' 56"</b></p> <p>Close Star: SAO-151881 (Sirius)            Catalog Objects: <a href="#">IC-2177</a></p> <p>Imaging Window: *02:25 – 05:23            Transit: 04:41   46°</p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4 - 90° Rotation</b></p>  <p style="font-size: small;">Seagull Nebula (IC-2177, NGC-2327, NGC-2335, NGC-2343)            Constellation: Monoceros            RA = 07h 06m 17.4s DEC = -11deg 02' 27.2" Size = 710 x 140 pixels Orientation = 80deg E of N Pixel scale = 2.27x arcsecond (1" = 54.7mic)</p> <p style="font-size: x-small; text-align: right;">James VanDer Meer © 2021 01-06, 10, 11, 15, 17   Location: Chandler, AZ            Config: C-11HD   HyperStar V4   Optolong L-110000   QHY128K              Exposure: 1x60   107Frames/Stack   Gain: 1200   140Sec   140</p>
<p><b>Seagull Nebula</b> (IC 2177)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>07hr 04' 47"</b>  <b>-10° 27' 49"</b></p> <p>Close Star: SAO-151881 (Sirius)            Catalog Objects: <a href="#">IC-2177</a></p> <p>Imaging Window: *02:25 – 05:23            Transit: 04:41   46°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – November 01, 2024

<p><b>Hourglass Nebula (NGC-2346)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>07hr 09' 23"</b>  <b>00° 48' 22"</b></p> <p>Close Star: SAO-115756 (Procyon)            Catalog Objects: <a href="#">NGC-2346</a></p> <p>Imaging Window: *<b>01:44 – 05:23</b>            Transit: <b>04:46   56°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus x2</b></p>  <p style="font-size: small; text-align: center;">Planetary Nebula NGC-2346  <small>Constellation: Monoceros            RA: 07h 09m 23s DEC: 00d 48' 22" Size: 21.7 x 17.1 pixels (binomial fit) Pixel Size: 0.278 arcsec/pixel FOV: 200mas</small></p>
<p><b>Integral Sign Galaxy (UGC 3697)</b>            Config:  C11HD FR ZWO6200MC </p> <p>Type: <b>Galaxy Group</b>            Constellation: <b>Camelopardalis</b>            Coordinates:  <b>07hr 11' 40"</b>  <b>71° 56' 04"</b></p> <p>Close Star: <b>SAO-40186</b> (Capella)            Catalog Objects: <a href="#">UGC-3697</a>, UGC-3714, UGC-3701</p> <p>Imaging Window: <b>01:54 – 05:23</b>            Transit: <b>04:48   52°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Integral Sign Galaxy (UGC 3697)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b>            Constellation: <b>Camelopardalis</b>            Coordinates:  <b>07hr 11' 50"</b>  <b>71° 48' 14"</b></p> <p>Close Star: <b>SAO-40186</b> (Capella)            Catalog Objects: <a href="#">UGC-3697</a>, UGC-3714, UGC-3701</p> <p>Imaging Window: <b>01:54 – 05:23</b>            Transit: <b>04:48   52°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 



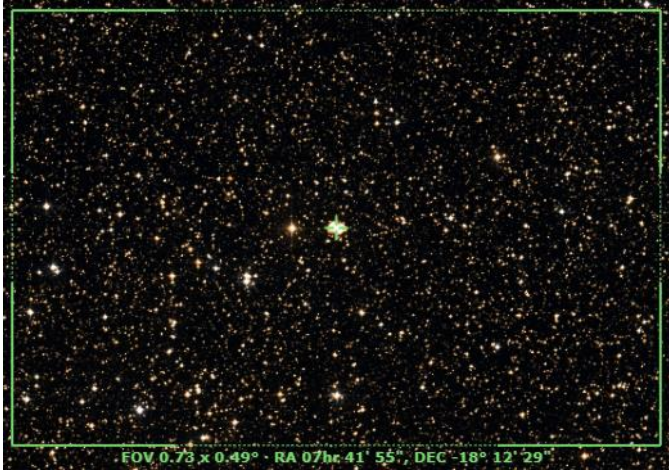
# Prospective Imaging Objects – November 01, 2024

<p><b>Thor's Helmet (NGC-2359)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Constellation: <b>Canis Major</b>            Coordinates:  <b>07h 18' 26.223"</b>  <b>-13° 15' 29.563"</b></p> <p>Close Star: SAO-151881 (Sirius)            Catalog Objects: <a href="#">NGC-2359</a>/            Sh2-298/ LBN1041</p> <p>Imaging Window: *02:55 – 05:23            Transit: 04:55   43°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">Thor's Helmet (NGC 2359)            Constellation: Canis Major</p> <p style="font-size: x-small; text-align: right;">James Yoder   Direct   2023-09-13 11:17            Location: Chandler, AZ            Config:  C11 HD ZWO6200MC  Filter: OIII+H-alpha            Exposure Info: (H-alpha) 100s   Gain: 3200   Offset: 100</p>
<p><b>Candy Wrapper (NGC-2371)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Constellation: <b>Gemini</b>            Coordinates:  <b>07° 25' 34"</b>  <b>29° 29' 18"</b></p> <p>Close Star: SAO-151881 (Sirius)            Catalog Objects: <a href="#">NGC-2371</a></p> <p>Imaging Window: 01:34 – 05:23            Transit: 05:02   86°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus x2</b></p>  <p style="font-size: x-small; text-align: center;">Candy Wrapper (NGC 2371)            Constellation: Gemini</p> <p style="font-size: x-small; text-align: right;">James Yoder   Direct   2023-09-13 11:17            Location: Chandler, AZ            Config:  C11 HD ZWO6200MC  Filter: OIII+H-alpha            Exposure Info: (H-alpha) 100s   Gain: 3200   Offset: 100</p>
<p><b>Medusa Nebula (Abell 21)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Gemini</b>            Coordinates:  <b>07h 29' 00"</b>  <b>13° 15' 00"</b></p> <p>Close Star: SAO-115756 (Procyon)            Catalog Objects: <a href="#">Abell 21</a></p> <p>Imaging Window: 02:12 – 05:23            Transit: 05:06   70°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small; text-align: center;">Abell-21 (Medusa Nebula)            Constellation: Gemini            RA = 7h 29m 49.9s, DEC = +13deg 15' 20.8", Size = 38.7 x 26.1 arcmin   Orientation: 0.8deg E of N   Pixel scale = 0.579 arcsec/pixel   FL=3720mm</p> <p style="font-size: x-small; text-align: right;">James Yoder   Direct   2023-09-13 20:27:38 2023-09-02 02:03   Location: Chandler, AZ            Config:  C11 HD ZWO6200MC  Filter: OIII+H-alpha            Exposure Info: (H-alpha) 100s   Gain: 3200   Offset: 100</p>

# Prospective Imaging Objects – November 01, 2024

<p><b>Eskimo Nebula (NGC-2392)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Gemini</b>            Coordinates:  <b>07h 29' 11"</b>  <b>20° 54' 45"</b></p> <p>Close Star: <b>SAO-79666</b> (Pollux)            Catalog Objects: <a href="#">NGC-2392</a></p> <p>Imaging Window: <b>01:54 – 05:23</b>            Transit: <b>05:06   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC-2392 (Eskimo Nebula) James Yoder   Date(s) 2020.12.09   Location: Chandler, AZ   Constellation: Gemini   Config:  C-11 HD (OPT) Triad Ultra   ZWO6200MC  Exposure Info: 144 frames/Stack   Gain: 100   Offset: 50   RA = 07h 29m 11.5s   DEC = +20deg 54' 33.6"   Size = 18.5 x 13.9 arcmin   Orientation: 0.5deg E of N   Pixel scale = 0.278 arcsec/pixel   F1 = 2000mm  </p>
<p><b>M-47 (NGC-2422)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Puppis</b>            Coordinates:  <b>07h 36' 36"</b>  <b>-14° 32' 19"</b></p> <p>Close Star: <b>SAO-79666</b> (Pollux)            Catalog Objects: <a href="#">M-47</a>/NGC-2422</p> <p>Imaging Window: <b>*03:18 – 05:23</b>            Transit: <b>05:13   42°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-2403</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Camelopardalis</b>            Coordinates:  <b>07h 36' 51"</b>  <b>65° 36' 06"</b></p> <p>Close Star: <b>SAO-79666</b> (Pollux)            Catalog Objects: <a href="#">NGC-2403</a></p> <p>Imaging Window: <b>01:45 – 05:23</b>            Transit: <b>05:13   58°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Galaxy NGC-2403 (Calwell 7) James Yoder   Date(s) 2020.12.09   Location: Chandler, AZ   Constellation: Camelopardalis   Config:  C-11 HD (OPT) Triad Ultra   ZWO6200MC  Exposure Info: 144 frames/Stack   Gain: 100   Offset: 50   RA = 07h 36m 51.5s   DEC = +65deg 36' 06"   Size = 18.5 x 13.9 arcmin   Orientation: 0.5deg E of N   Pixel scale = 0.278 arcsec/pixel   F1 = 2000mm  </p>

# Prospective Imaging Objects – November 01, 2024

<p><b>Intergalactic Wanderer (NGC-2419)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Lynx</b>            Coordinates:  <b>07h 38' 09"</b>  <b>38° 52' 57"</b></p> <p>Close Star: <b>SAO-79666</b> (Pollux)            Catalog Objects: <a href="#">NGC-2419</a></p> <p>Imaging Window: <b>01:35 – 05:23</b>            Transit: <b>05:15   84°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Intergalactic Wanderer (NGC-2419)  <small>© 2024 Starizona LLC. All Rights Reserved. This image is for personal use only. No part of this image may be reproduced without written permission from Starizona LLC.</small></p>
<p><b>M-46 (NGC-2437)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster with PN</b></p> <p>Constellation: <b>Puppis</b>            Coordinates:  <b>07h 41' 45"</b>  <b>-14° 46' 43"</b></p> <p>Close Star: <b>SAO-151881</b> (Sirius)            Catalog Objects: <a href="#">M-46</a>/NGC-2437,            NGC-2438</p> <p>Imaging Window: <b>*03:39 – 05:23</b>            Transit: <b>05:18   42°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC-2438  <small>© 2024 Starizona LLC. All Rights Reserved. This image is for personal use only. No part of this image may be reproduced without written permission from Starizona LLC.</small></p>
<p><b>Bow-Tie Nebula (NGC-2440)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Puppis</b>            Coordinates:  <b>07° 41' 55"</b>  <b>-18° 12' 29"</b></p> <p>Close Star: <b>SAO-151881</b> (Sirius)            Catalog Objects: <a href="#">NGC-2440</a></p> <p>Imaging Window: <b>*02:36 – 05:23</b>            Transit: <b>05:18   38°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus x2</b></p>  <p style="font-size: small; text-align: center;">FOV 0.73 x 0.49° • RA 07hr 41' 55", DEC -18° 12' 29"</p>

# Prospective Imaging Objects – November 01, 2024

**Butterfly Cluster** (M-93, NGC-2447)

Config: |C11HD|ZWO6200MC|

Type: **Open Cluster**

Constellation: **Puppis**

Coordinates:

**07h 44' 46"**

**-23° 51' 52"**

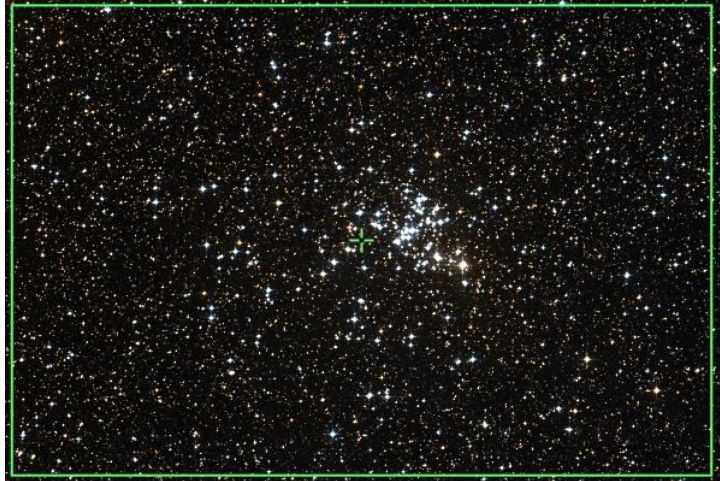
Close Star: **SAO-151881** (Sirius)

Catalog Objects: [M-93](#)/NGC-2447

Imaging Window: \***03:10 – 05:23**

Transit: **05:21** | **33°**

**C-11 HD: Primary Focus**



Blank  
Page

# Prospective Imaging Objects – November 01, 2024

## Imaging Summary November 01, 2024

Astronomical Dusk = 06:59

Astronomical Dawn = 05:23

### HyperStar: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Nebula	Nebula	IC-1396	06:59 – 11:07	07:17	03	Cepheus: Elephant Trunk
HyperStar	Nebula	DN, BN	B-168	06:59 – 11:24	07:31	06	Cygnus: Dark Cocoon
HyperStar	Nebula	Nebula	SH2-132	06:59 – 11:49	07:57	08	Cepheus: SH2-132
HyperStar	Nebula	Nebula	SH2-155	06:59 – 12:18	08:35	11	Cepheus: Cave Nebula
HyperStar	Nebula	Nebula	SH2-157	06:59 – 12:41	08:54	12	Cassiopeia: Lobster Claw and Bubble Nebula
HyperStar	Nebula	Nebula	LBN 534	06:59 – 01:01	09:07	14	Andromeda: Blue Match Nebula
HyperStar	Nebula	Nebula	NGC-7822	06:59 – 01:07	09:39	15	Comp2! Cepheus: NGC-7822 region
HyperStar	Nebula	Nebula	NGC-7822	06:59 – 01:07	09:39	15	Cepheus CED-214
HyperStar	Nebula	Nebula	SH2-185	06:59 – 02:24	10:38	22	Cassiopeia: Gamma Cassiopeiae Nebula
HyperStar	Nebula	Neb, OC	NGC-457	07:13 – 02:47	10:57	24	Cassiopeia: Open Cluster and Nebula
HyperStar	Nebula	Nebula	IC-1848	08:25 – 03:47	12:03	29	Comp4! Cassiopeia: Heart & Soul Nebula
HyperStar	Nebula	Nebula	IC-1805	08:31 – 03:56	12:10	30	Cassiopeia: Heart Nebula
HyperStar	Nebula	Nebula	IC-1848	08:48 – 04:16	12:29	32	Cassiopeia: Soul Nebula
HyperStar	Nebula	Nebula	NGC-1499	10:02 – 05:23	01:40	35	Perseus: California Nebula
HyperStar	Nebula	Nebula	IC-405	11:19 – 05:23	02:54	39	Auriga: Flaming Star Nebula
HyperStar	Nebula	Nebula	Orion Cmpx	12:29 – 05:23	03:12	43	Comp6! Orion: Orion Complex of objects
HyperStar	Nebula	Nebula	M-42	12:29 – 05:23	03:12	44	Orion: Orion and Running Man Nebula
HyperStar	Nebula	Nebula	M-42	12:29 – 05:23	03:12	44	Orion: Orion and Running Man Nebula
HyperStar	Nebula	Nebula	SH 2-240	11:52 – 05:23	03:18	46	Comp2! Taurus: Simeis 147
HyperStar	Nebula	Nebula	SH 2-240	11:52 – 05:23	03:18	46	Taurus: Simeis 147
HyperStar	Nebula	Nebula	NGC-2024, B-33	01:23 – 05:23	03:18	47	Orion: Horsehead and Flame Nebula
HyperStar	Nebula	Nebula	IC-2162, SH2-261	12:46 – 05:23	03:45	53	Orion: Two Nebulas
HyperStar	Nebula	Nebula	IC-443	12:39 – 05:23	03:54	56	Gemini: Jellyfish Nebula
HyperStar	Nebula	Nebula	NGC-2237	01:41 – 05:23	04:07	57	Monoceros: Rosett Nebula

# Prospective Imaging Objects – November 01, 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Nebula	Nebula	IC-2169	01:24 – 05:23	04:08	58	Monoceros: DN & Nebulas
HyperStar	Nebula	Nebula	IC-2177	*02:25-05:23	04:41	62	Rot90° Monoceros: Seagull Nebula

## Imaging Summary November 01, 2024

Astronomical Dusk = 06:59

Astronomical Dawn = 05:23

### HyperStar: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Broad Spectrum	DN	B-168	06:59 – 11:24	07:31	07	Cepheus: Wolf Cave
HyperStar	Broad Spectrum	Galaxies	NGC-147	06:59 – 02:04	10:11	17	Cassiopeia: Galaxy Pair
HyperStar	Broad Spectrum	Galaxy	M-31	06:59 – 02:09	10:20	19	Andromeda: Andromeda Galaxy
HyperStar	Broad Spectrum	Gal, GC	NGC-288	*08:26-12:29	10:25	21	Sculptor: NGC-288 & NGC-253
HyperStar	Broad Spectrum	Galaxy	M-33	07:41 – 02:48	11:11	25	Triangulum: Triangulum Galaxy
HyperStar	Broad Spectrum	OC	NGC-869	08:11 – 03:48	11:56	28	Perseus: Hand chi Persei
HyperStar	Broad Spectrum	OC, BN	M-45	10:04 – 04:49	01:23	34	Taurus: Pleiades
HyperStar	Broad Spectrum	OC	Mel-25	11:03 – 05:17	02:07	37	Taurus: Hyades
HyperStar	Broad Spectrum	DN	IC-2118	*12:11-05:17	02:39	37	Eridanus: Witch Head Nebula
HyperStar	Broad Spectrum	DN	NGC-1788	12:27 – 04:38	02:44	38	Orion: Foxface Nebula
HyperStar	Broad Spectrum	DN, N	LDN-1622 R1	08:18 – 05:23	03:31	50	Comp2! Orion: DN Band
HyperStar	Broad Spectrum	DN, N	LDN-1622 R2	08:18 – 05:23	03:31	51	Orion: DN Band
HyperStar	Broad Spectrum	DN, N	LDN-1622 R3	08:18 – 05:23	03:31	51	Orion: DN Band

# Prospective Imaging Objects – November 01, 2024

## Imaging Summary November 01, 2024

Astronomical Dusk = 06:59

Astronomical Dawn = 05:23

### Focal Reducer: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Nebula	Nebula	IC-1396-1	06:59 – 11:07	07:17	03	Cepheus: Elephant Trunk ROI
Focal Reducer	Nebula	Nebula	IC-1396-2	06:59 – 11:07	07:17	04	Cepheus: Elephant Trunk ROI
Focal Reducer	Nebula	Nebula	IC-5146	06:59 – 11:24	07:32	06	Cygnus: Cocoon Nebula
Focal Reducer	Nebula	Nebula	SH2-132	06:59 – 11:49	07:57	08	Cepheus: Bright Nebula
Focal Reducer	Nebula	Nebula	SH2-142	05:59 – 12:15	08:25	10	Cepheus: Wizard Nebula
Focal Reducer	Nebula	Nebula	SH2-155	06:59 – 12:18	08:35	11	Cepheus: Cave Nebula
Focal Reducer	Nebula	Nebula	SH2-157	06:59 – 12:41	08:54	12	Cassiopeia: Lobster Claw
Focal Reducer	Nebula	Nebula	NGC-7822	06:59 – 01:07	09:39	16	Cepheus: NGC 7822 (CED-214)
Focal Reducer	Nebula	Neb, Gx	NGC-246	*07:12-01:40	10:25	20	Cetus: Planetary and two Galaxies
Focal Reducer	Nebula	Nebula	NGC-281	06:59-02:21	10:30	22	Cassiopeia: Pack Man Nebula
Focal Reducer	Nebula	Nebula	IC-1795	08:25 – 03:47	12:03	29	Cassiopeia: Fish Head Nebula
Focal Reducer	Nebula	Nebula	IC-1805	08:31 – 03:56	12:10	30	Cassiopeia: Heart Nebula
Focal Reducer	Nebula	Nebula	IC-405	11:19 – 05:23	02:54	39	Auriga: Flaming Star Nebula
Focal Reducer	Nebula	Nebula	IC-410	11:25 – 05:23	02:59	40	Auriga: Tadpoles
Focal Reducer	Nebula	Nebula	M-77, NGC1055	11:30 – 05:23	03:05	41	<b>Comp2!</b> Auriga: The Spider and the Fly
Focal Reducer	Nebula	Nebula	NGC-2024	01:23 – 05:23	03:18	47	Orion: Flame Nebula
Focal Reducer	Nebula	Nebula	NGC-2170	02:19 – 05:23	03:44	53	Monoceros: Angel Nebula
Focal Reducer	Nebula	Nebula	SH 2-261	12:46 – 05:53	03:45	54	Orion: Lower's Nebula
Focal Reducer	Nebula	Nebula	NGC-2174	12:35 – 05:23	03:46	55	Orion: Monkey Head Nebula
Focal Reducer	Nebula	Nebula	IC-443	12:39 – 05:23	03:54	56	Gemini: Jellyfish Nebula
Focal Reducer	Nebula	Nebula	NGC-2237	01:41 – 05:23	04:07	58	Monoceros: Rosett Nebula Core
Focal Reducer	Nebula	Nebula	NGC-2264	01:34 – 05:23	04:17	60	<b>Comp2!</b> Monoceros: Xmas Tree and Cone Nebula
Focal Reducer	Nebula	Nebula	NGC-2264	01:34 – 05:23	04:17	60	<b>Rot!</b> Monoceros: Xmas Tree and Cone Nebula
Focal Reducer	Nebula	Nebula	NGC-2264	01:34 – 05:23	04:17	60	Monoceros: Xmas Tree and Cone Nebula

# Prospective Imaging Objects – November 01, 2024

## Imaging Summary November 01, 2024

Astronomical Dusk = 06:59

Astronomical Dawn = 05:23

### Focal Reducer: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Broad Spectrum	OC	M-39	06:59 – 11:02	07:10	02	Cygnus: Open Cluster NGC-7092
Focal Reducer	Broad Spectrum	DN	LDN-1235	06:59 – 10:38	07:53	07	Cepheus: Dark Shark
Focal Reducer	Broad Spectrum	DN	B-168	06:59 – 11:24	07:31	07	Rot90 Cepheus: Wolf's Cave
Focal Reducer	Broad Spectrum	Galaxies	NGC7317	06:59 – 11:55	08:14	09	Rot 115 Pegasus: Stephan's Quintent & NGC-7331
Focal Reducer	Broad Spectrum	Galaxies	NGC-7619	06:59 – 11:42	08:58	13	Pegasus: Pegasus Cluster
Focal Reducer	Broad Spectrum	Galaxies	NGC-147	06:59 – 02:02	10:11	17	Copmp2! Cassiopeia: Galaxy Pair NGC-147 & 185
Focal Reducer	Broad Spectrum	OC	NGC-188	*06:59-03:14	10:25	22	Cepheus: Open Cluster NGC-188
Focal Reducer	Broad Spectrum	Galaxy	M-33	07:41 – 02:48	11:11	26	Rot90 Triangulum: Triangulum Galaxy
Focal Reducer	Broad Spectrum	Galaxies	M-77	10:15 – 02:32	12:20	31	Cetus: Galaxies M-77 & NGC-1055
Focal Reducer	Broad Spectrum	DN, BN	NGC-1788	12:57 – 04:38	02:44	38	Orion: Foxface Nebula
Focal Reducer	Broad Spectrum	DN, BN	M-78	01:18 – 05:23	03:23	49	Comp2! Orion: Dark Nebula
Focal Reducer	Broad Spectrum	DN, BN	M-78	01:18 – 05:23	03:23	49	Orion: Dark Nebula
Focal Reducer	Broad Spectrum	DN	LDN-1622	01:18 – 05:23	03:31	52	Comp2! Rot90° Orion: Dark Nebula
Focal Reducer	Broad Spectrum	DN	LDN-1622	01:18 – 05:23	03:31	52	Orion: Dark Nebula
Focal Reducer	Broad Spectrum	OC	M-35, NGC-2158	12:27 – 05:23	03:46	54	Gemini: Open Cluster Pair
Focal Reducer	Broad Spectrum	BN	IC-2169	01:24 – 05:23	04:08	59	Monoceros: Reflection Nebula
Focal Reducer	Broad Spectrum	Galaxies	UGC-3697	01:54 – 05:23	04:48	63	Camelopardalis: Integral Sign Galaxy

# Prospective Imaging Objects – November 01, 2024

## Imaging Summary November 01, 2024

Astronomical Dusk = 06:59

Astronomical Dawn = 05:23

### Primary Focus: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	PN	NGC-7094	06:59 – 10:13	07:15	03	Pegasus: Med PN
Primary Focus	Nebula	DN	IC-1396-1	06:59 – 11:07	07:17	04	Cepheus: Elephant Trunk ROI
Primary Focus	Nebula	BN	IC-1396-2	06:59 – 11:07	07:17	04	Cepheus: Elephant Trunk RIO
Primary Focus	Nebula	BN	IC-1396-3	06:59 – 11:07	07:17	05	Cepheus: Elephant Trunk RIO
Primary Focus	Nebula	PN	NGC-7139	06:59 – 11:04	07:24	05	Cepheus: Med/Lrg Planetary
Primary Focus	Nebula	BN	IC-5146	06:59 – 11:24	07:32	06	Cygnus: Cocoon Nebula
Primary Focus	Nebula	Nebula	SH2-132	06:59 – 11:49	07:57	08	Cepheus: Bright Nebula
Primary Focus	Nebula	PN	NGC-7293	*06:59-10:37	08:08	09	Aquarius: Helix Nebula
Primary Focus	Nebula	Nebula	SH2-142	05:59 – 12:15	08:25	10	Cepheus: Wizard Nebula
Primary Focus	Nebula	Nebula	SH2-155	06:59 – 12:18	08:35	11	Cepheus: Cave Nebula
Primary Focus	Nebula	Nebula	NGC-7635	06:59 – 12:44	08:59	13	Cepheus: Bubble Nebula
Primary Focus	Nebula	Nebula	NGC-7662	06:59 – 12:54	09:04	14	Andromeda: Blue Snowball
Primary Focus	Nebula	Nebula	NGC-7822	06:59 – 01:07	09:39	16	Cepheus: Emission Nebula Ced 214
Primary Focus	Nebula	PN	NGC-40	06:59 – 12:46	09:51	16	Cepheus: Bow-Tie Nebula
Primary Focus	Nebula	PN	NGC-246	*07:12-01:40	10:25	20	Cetus: Skull Nebula
Primary Focus	Nebula	Nebula	SH2-185	06:59 – 02:24	10:38	23	Cassiopeia: Gamma Cassiopeiae Nebula
Primary Focus	Nebula	Nebula	SH2-188	07:24 – 02:58	11:08	25	Cassiopeia: Firefox Nebula
Primary Focus	Nebula	PN	M-76	07:32 – 03:13	11:20	27	Perseus: Little Dumbbell Nebula
Primary Focus	Nebula	Nebula	IC-1805	08:31 – 03:56	12:10	30	Cassiopeia: Heart Nebula Core
Primary Focus	Nebula	Nebula	IC-1848	08:48 – 04:16	12:29	32	Cassiopeia: Soul Nebula Core
Primary Focus	Nebula	Nebula	NGC-1333	09:35 – 04:44	01:06	33	Perseus: Bright Nebula
Primary Focus	Nebula	Nebula	NGC-1360	*11:22-03:06	01:10	33	Fornax: Egg shaped Nebula
Primary Focus	Nebula	Nebula	IC-348	09:49 – 05:01	01:22	34	Perseus: Bright Nebula
Primary Focus	Nebula	Nebula	M-45	10:04 – 04:49	01:23	35	Taurus: Pleiades

# Prospective Imaging Objects – November 01, 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	Nebula	NGC-1501	10:04 – 05:23	01:44	35	Camelopardalis: Oyster Nebula
Primary Focus	Nebula	Nebula	NGC-1514	10:16 – 05:23	01:46	36	Taurus: Crystal Ball Nebula
Primary Focus	Nebula	Nebula	NGC-1535	*11:45-03:59	01:51	36	Eridanus: Cleopatra's Eye
Primary Focus	Nebula	Nebula	NGC-1555	10:50 – 05:15	01:59	36	Taurus: Hind's Variable Nebula
Primary Focus	Nebula	Nebula	NGC-1579	10:30 – 05:23	02:07	37	Perseus: Trifid of the North
Primary Focus	Nebula	Nebula	IC-2118	*12:11-05:17	02:39	38	Eridanus: Witch Head Nebula
Primary Focus	Nebula	Nebula	NGC-1788	12:57 – 04:38	02:44	39	Orion: Foxface Nebula
Primary Focus	Nebula	Nebula	IC-405	11:19 – 05:23	02:54	40	Auriga: Flaming Star Nebula
Primary Focus	Nebula	Nebula	IC-410	11:25 – 05:23	02:59	40	Auriga: Tadpoles
Primary Focus	Nebula	Nebula	IC-418	*12:59-05:10	03:04	41	Lepus: Spirograph Nebula
Primary Focus	Nebula	Nebula	IC-417	11:30 – 05:23	03:05	42	Auriga: The Spider
Primary Focus	Nebula	Nebula	NGC-1931	11:30 – 05:23	03:08	42	Auriga: The Fly
Primary Focus	Nebula	Nebula	M-1	11:57 – 05:23	03:11	43	Taurus: Crab Nebula
Primary Focus	Nebula	Nebula	M-42	12:29 – 05:23	03:12	44	Orion: The Orion Nebula
Primary Focus	Nebula	Nebula	NGC-1977	01:35 – 05:23	03:12	45	Orion: Running Man Nebula (C-6)
Primary Focus	Nebula	Nebula	NGC-1977	01:35 – 05:23	03:12	45	Orion: Running Man Nebula
Primary Focus	Nebula	Nebula	NGC-2024	01:23 – 05:23	03:18	47	Orion: Flame Nebula
Primary Focus	Nebula	Nebula	B-33	01:26 – 05:23	03:18	48	Orion: Horsehead Nebula
Primary Focus	Nebula	Nebula	NGC-2022	12:38 – 05:23	03:19	48	Orion: Planetary Nebula
Primary Focus	Nebula	Nebula	NGC-2170	02:19 – 05:23	03:44	53	Monoceros: Angle Nebula
Primary Focus	Nebula	Nebula	SH 2-261	12:46 – 05:53	03:45	54	Orion: Lower's Nebula
Primary Focus	Nebula	Nebula	NGC-2174	12:35 – 05:23	03:46	55	Orion: Monkey Head Nebula
Primary Focus	Nebula	Nebula	IC-2162	12:44 – 05:23	03:50	55	Orion: Nebula
Primary Focus	Nebula	Nebula	IC-443	12:39 – 05:23	03:54	56	Gemini: Jellyfish Nebula
Primary Focus	Nebula	Nebula	IC-2165	*01:55-05:23	03:58	57	Canis Major: Small Planetary Nebula
Primary Focus	Nebula	Nebula	SH 2-249	12:43 – 05:23	03:59	57	Gemini: Nebula
Primary Focus	Nebula	Nebula	NGC-2237	01:41 – 05:23	04:07	58	Monoceros: Rosette Nebula Core
Primary Focus	Nebula	Nebula	NGC-2261	01:36 – 05:23	04:18	59	Monoceros: Hubble's Variable Nebula
Primary Focus	Nebula	Nebula	NGC-2264	01:34 – 05:23	04:17	60	Monoceros: Xmas Tree Cluster

# Prospective Imaging Objects – November 01, 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	Nebula	NGC-2264	01:34 – 05:23	04:17	61	Monoceros: Cone Nebula
Primary Focus	Nebula	Nebula	IC-2177	*02:25-05:23	04:41	62	Monoceros: Seagull Nebula head
Primary Focus	Nebula	Nebula	NGC-2346	*01:44-05:23	04:46	63	Monoceros: Hourglass Nebula
Primary Focus	Nebula	Nebula	NGC-2359	*02:55-05:23	04:55	64	Canis Major: Thor's Helmet
Primary Focus	Nebula	Nebula	NGC-2371	01:34 – 05:23	05:02	64	Gemini: Candy Wrapper Nebula
Primary Focus	Nebula	Nebula	Abell-21	02:12 – 05:23	05:06	64	Gemini: Medusa Nebula
Primary Focus	Nebula	Nebula	NGC-2392	01:54 – 05:23	05:06	65	Gemini: Eskimo Nebula
Primary Focus	Nebula	Nebula	M-46	*03:39-05:23	05:18	66	Puppis: Open Cluster and Planetary
Primary Focus	Nebula	Nebula	NGC-2440	*02:36-05:23	05:18	66	Puppis: Bow-Tie Nebula
Primary Focus	Nebula	Nebula					

## Imaging Summary November 01, 2024

Astronomical Dusk = 06:59

Astronomical Dawn = 05:23

### Primary Focus: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	GC	M-15	06:59 – 10:04	07:08	02	Pegasus: Pegasus Cluster
Primary Focus	Broad Spectrum	GC	M-2	06:59 – 09:18	07:12	02	Aquarius: Large Globular
Primary Focus	Broad Spectrum	GC	M-30	*06:59-09:37	07:18	05	Capricornus: Med Globular
Primary Focus	Broad Spectrum	Galaxies	NGC-7317	06:59 – 11:55	08:14	09	Pegasus: Stephan's Quintet
Primary Focus	Broad Spectrum	Galaxies	NGC-7331	06:59 – 11:56	08:15	10	Pegasus: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	NGC-7479	06:59 – 11:40	08:43	12	Pegasus: Face on Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-7619	06:59 – 11:42	08:58	13	Pegasus: Pegasus Cluster
Primary Focus	Broad Spectrum	OC	M-52	06:59 – 12:47	09:03	14	Cassiopeia: Open Cluster NGC-7654
Primary Focus	Broad Spectrum	OC	NGC-7789	06:59 – 01:26	09:35	15	Cassiopeia: Caroline's Rose
Primary Focus	Broad Spectrum	Galaxies	NGC 67-72	06:59 – 01:31	09:56	17	Andromeda: Andromeda Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	NGC-147	06:59 – 02:02	10:11	18	Cassiopeia: Dwarf Galaxy

# Prospective Imaging Objects – November 01, 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	NGC-185	06:59 – 02:10	10:17	18	Cassiopeia: Dwarf Spheroidal Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-110	06:59 – 02:07	10:18	18	Andromeda: Elliptical Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-32	06:59 – 02:09	10:20	19	Andromeda: Companion to M-31
Primary Focus	Broad Spectrum	Galaxy	NGC-247	*07:57-12:59	10:25	20	Cetus: Needle's Eye Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-253	*08:26-12:29	10:25	21	Sculptor: Sculptor Galaxy
Primary Focus	Broad Spectrum	Globular	NGC-288	*08:49-12:22	10:30	21	Sculptor: Med Globular Cluster
Primary Focus	Broad Spectrum	Galaxy	IC-1613	08:27 – 01:04	10:42	23	Cetus: Irregular Dwarf Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-404	07:09 – 02:30	10:47	23	Andromeda: Mirachs Ghost
Primary Focus	Broad Spectrum	OC	NGC-457	07:13 – 02:47	10:57	24	Cassiopeia: Owl Cluster
Primary Focus	Broad Spectrum	Galaxies	Arp-133	09:05 – 01:08	11:03	24	Cetus: Minkowski's Object
Primary Focus	Broad Spectrum	OC	M-103	07:30 – 02:58	11:11	25	Cassiopeia: Open Cluster NGC-581
Primary Focus	Broad Spectrum	Galaxy	M-33	07:41 – 02:48	11:11	26	Triangulum: Triangulum Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-74	08:13 – 02:21	11:14	27	Pisces: Med Face On Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-772	08:28 – 02:51	11:37	27	Aries: Nautilus Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-891	08:12 – 03:50	12:00	28	Andromeda: Edge On Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-925	08:30 – 03:46	12:05	28	Triangulum: Face on Galaxy PGC-9332
Primary Focus	Broad Spectrum	Galaxy	NGC-1055	10:12 – 02:33	12:19	31	Cetus: Edge On galaxy
Primary Focus	Broad Spectrum	OC	M-34	08:35 – 04:10	12:19	31	Perseus: Open Cluster NGC-1039
Primary Focus	Broad Spectrum	Galaxy	M-77	10:15 – 02:32	12:20	32	Cetus: Galaxy NGC-1068
Primary Focus	Broad Spectrum	Galaxies	Abell-426	09:14 – 04:47	12:57	33	Perseus: Perseus Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxy	IC-342	10:05 – 04:50	01:24	34	Camelopardalis: Large Face-On
Primary Focus	Broad Spectrum	Globular	M-79	*01:03-05:10	03:01	41	Lepus: Med Globular
Primary Focus	Broad Spectrum	OC	M-38	11:28 – 05:23	03:05	42	Auriga: Starfish Cluster
Primary Focus	Broad Spectrum	OC	M-36	11:08 – 05:23	03:13	45	Auriga: Open Star Cluster NGC-1960
Primary Focus	Broad Spectrum	Galaxy	NGC-1961	12:07 – 05:23	03:19	48	Camelopardalis: Galaxies
Primary Focus	Broad Spectrum	DN	M-78	01:18 – 05:23	03:23	50	Orion: Dark and Bright Nebula
Primary Focus	Broad Spectrum	OC	M-37	11:56 – 05:23	03:29	50	Auriga: Salt and Pepper Cluster
Primary Focus	Broad Spectrum	DN	LDN-1622	01:18 – 03:31	03:31	52	Orion: Dark Nebula

## Prospective Imaging Objects – November 01, 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	RN	IC-2169	01:24 – 05:23	04:08	59	Monoceros: Reflection Nebula
Primary Focus	Broad Spectrum	OC	M-41	*01:52-05:23	04:23	61	Canis Major: Open Star Cluster NGC-2287
Primary Focus	Broad Spectrum	OC	M-50	*02:10–05:23	04:39	62	Monoceros: Open Star Cluster NGC-2323
Primary Focus	Broad Spectrum	Galaxy	UGC-3697	01:54 – 05:23	04:48	63	Camelopardalis: Galaxy Cluster
Primary Focus	Broad Spectrum	OC	M-47	*03:18-05:23	05:13	65	Puppis: Open Cluster NGC-2422
Primary Focus	Broad Spectrum	Galaxy	NGC-2403	01:45 – 05:23	05:13	65	Camelopardalis: Med Barred Spiral Galaxy
Primary Focus	Broad Spectrum	GC	NGC-2419	01:35 – 05:23	05:15	66	Lynx: Intergalactic Wanderer
Primary Focus	Broad Spectrum	OC	M-93	*03:10-05:23	05:21	67	Puppis: Butterfly Cluster

# Prospective Imaging Objects – November 01, 2024

## Imaging Summary November 01, 2024

Astronomical Dusk = 06:59

Astronomical Dawn = 05:23

### Primary Prospects

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	HyperStar	Nebula	BN & DN	B-168	06:59 – 11:24	07:31	06	Cygnus: Dark Cocoon
	HyperStar	Nebula	Nebula	SH2-132	06:59 – 11:49	07:57	08	Cepheus: Bright Nebula
	HyperStar	Nebula	Nebula	SH2-155	06:59 – 12:18	08:35	11	Andromeda: Blue Match Nebula
	HyperStar	Broadband	Galaxies	NGC-147 & NGC-185	06:59 – 02:02	10:11	17	Cassiopeia: Galaxy Pair
	HyperStar	Broadband	Galaxy	M-33	07:41 – 02:48	11:11	25	Triangulum: Triangulum Galaxy
	HyperStar	Broadband	OC	NGC-869, 884	08:11 – 03:48	11:56	28	Perseus: Hand Chi Persei
	HyperStar	Nebula	Nebula	IC-1848	08:48 – 04:16	12:29	29	<b>Comp4!</b> Cassiopeia: Heart and Soul Nebula
	HyperStar	Broadband	OC	Mel-25	11:03 – 05:17	02:07	37	Taurus: Hayades Cluster
	HyperStar	Nebula	BN, DN	NGC-1788	12:57 – 04:38	02:44	38	Orion: Foxface Nebula
	HyperStar	Nebula	Nebula	Orion Complex	12:29 – 05:23	03:12	43	<b>Comp6!</b> Orion: Orion Complex
	HyperStar	Nebula	Nebula	M-42	12:29 – 05:23	03:12	44	Orion: Orion & Running Man
	HyperStar	Nebula	Nebula	SH 2-240	11:52 – 05:23	03:18	46	<b>Comp2 Rot90</b> Taurus: Nebula
	HyperStar	Nebula	Nebula	LDN-1622	01:18 – 05:23	03:31	50	<b>Comp2!</b> Orion: Nebula
	HyperStar	Nebula	Nebula	LDN-1622 R1	01:18 – 05:23	03:31	51	Orion: Region of Interest
	HyperStar	Nebula	Nebula	LDN-1622 R3	01:18 – 05:23	03:31	51	Orion: Region of Interest
	HyperStar	Nebula	Nebula	IC-2162	12:46 – 05:23	03:45	53	<b>Rot!</b> Orion: Nebula
	HyperStar	Nebula	Nebula	IC-2169	01:24 – 05:23	04:08	58	Monoceros: BN, DN
	HyperStar	Nebula						
	Focal Reducer	Broadband	OC	M-39	06:59 – 11:02	07:10	02	Cygnus: Open Cluster NGC-7092
	Focal Reducer	Nebula	Nebula	IC-1396	06:59 – 11:07	07:17	03	Cepheus: Elephant Trunk RIO1
	Focal Reducer	Nebula	Nebula	IC-1396	06:59 – 11:07	07:17	04	Cepheus: Elephant Trunk RIO2
	Focal Reducer	Nebula	BN & DN	IC-5146	06:59 – 11:24	07:31	06	Cygnus: Cocoon Nebula
	Focal Reducer	Nebula	Nebula	SH2-132	06:59 – 11:49	07:57	08	Cepheus: Bright Nebula

# Prospective Imaging Objects – November 01, 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Focal Reducer	Broadband	Galaxies	NGC7331 et. El.	06:59 – 11:55	08:14	09	<b>Rot!</b> Peg: Stephan's Quintet & NGC7331
	Focal Reducer	Nebula	Nebula	SH2-142	06:59 – 12:15	08:25	10	Cepheus: Wizard Nebula
	Focal Reducer	Broadband	Galaxies	NGC-7619	06:59 – 11:42	08:58	13	Pegasus: Pegasus Cluster
	Focal Reducer	Nebula	Nebula	NGC-7822	06:59 – 01:07	09:39	16	Cepheus: CED-214
	Focal Reducer	Broadband	OC	NGC-188	*06:59-03:18	10:25	22	Cepheus: Open Cluster
	Focal Reducer	Nebula	BN, DN	NGC-1788	12:57 – 04:38	02:44	38	Orion: Foxface Nebula
	Focal Reducer	Nebula	Nebula	NGC-2024	01:23 – 05:23	03:18	47	Orion: Flame Nebula
	Focal Reducer	Broadband	BN, DN	M-78	01:18 – 05:23	03:23	49	<b>Comp2!</b> Orion: Dark& Bright Nebula
	Focal Reducer	Broadband	BN, DN	M-78	01:18 – 05:23	03:23	49	Orion: Dark & Bright Nebula
	Focal Reducer	Broadband	DN	LDN-1622	01:18 -05:23	03:31	52	<b>Comp2!</b> Orion: Dark & Bright Nebula
	Focal Reducer	Broadband	DN	LDN-1622	01:18 -05:23	03:31	52	Orion: Dark & Bright Nebula
	Focal Reducer	Nebula	Nebula	SH 2-261	12:46 – 05:53	03:45	54	Orion: Lower's Nebula
	Focal Reducer	Broadband	OC	M-35	12:27 – 05:23	03:46	54	Gemini: Open Cluster Pair
	Focal Reducer	Nebula	Nebula	NGC-2174	12:35 – 05:23	03:46	55	Orion: Monkey Head
	Focal Reducer	Nebula	Nebula	IC-443	12:39 – 05:23	03:54	56	Gemini: Jellyfish Nebula
	Focal Reducer	Nebula	Nebula	NGC-2237	01:41 – 05:23	04:07	58	Monoceros: Rosette ROI
	Focal Reducer	Nebula	Nebula	IC-2169	01:24 – 05:23	04:08	59	Monoceros: Brigh Nebula
	Focal Reducer	Nebula	Nebula	NGC-2265	01:34 – 05:23	04:17	60	<b>Comp2!</b> Monoceros: Xmas Tree & Cone
	Focal Reducer	Nebula	Nebula	NGC-2265	01:34 – 05:23	04:17	60	<b>Rot!</b> Monoceros: Xmas Tree & Cone
	Primary Focus	Broadband	Globular	M-2	06:59 – 09:18	07:12	02	Aquarius: Large GC NGC-7089
	Primary Focus	Nebula	PN	NGC-7094	06:59 – 10:13	07:15	03	Pegasus: sm/med PN
	Primary Focus	Nebula	DN	IC-1396	06:59 – 11:07	07:17	04	Cepheus: Dark Nebula
	Primary Focus	Nebula	Nebula	IC-1396	06:59 – 11:07	07:17	04	Cepheus: Elephant Trunk RIO 1
	Primary Focus	Nebula	Nebula	IC-1396	06:59 – 11:07	07:17	05	Cepheus: Elephant Trunk RIO 2
	Primary Focus	Broadband	Globular	M-30	*06:59-09:37	07:18	05	Capricornus: Med Globular NGC-7099
	Primary Focus	Nebula	Nebula	SH2-132	06:59 – 11:49	07:57	08	Cepheus: Bright Nebula
	Primary Focus	Broadband	Galaxies	NGC-7317	06:59 – 11:55	08:14	09	Pegasus: Stephan's Quintet
	Primary Focus	Broadband	Galaxies	NGC-7619	06:59 – 11:42	08:58	13	Pegasus: Pegasus Cluster

# Prospective Imaging Objects – November 01, 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Primary Focus	Nebula	PN	NGC-7662	06:59 – 12:54	09:04	14	Andromeda: Blue Snowball
	Primary Focus	Broadband	OC	NGC-7789	06:59 – 01:26	09:35	15	Cassiopeia: Caroline's Rose
	Primary Focus	Nebula	PN	NGC-40	06:59 – 12:46	09:51	16	Cepheus: Bow-Tie Nebula
	Primary Focus	Broadband	Galaxies	NGC 67-72	06:59 – 01:31	09:56	17	Andromeda: Andromeda Galaxy Group
	Primary Focus	Nebula	PN	NGC-246	*07:12-01:40	10:25	20	Cetus: Skull Nebula
	Primary Focus	Broadband	Globular	NGC-288	*08:49-12:22	10:30	21	Sculptor: Med Globular Cluster
	Primary Focus	Nebula	Nebula	SH2-185	06:59 – 02:24	10:38	23	Cassiopeia: Gamma Cassiopeiae Nebula
	Primary Focus	Broadband	Galaxy	IC-1613	08:27 – 01:04	10:42	23	Cetus: Irregular Dwarf Galaxy
	Primary Focus	Broadband	Galaxy	NGC-404	07:09 – 02:30	10:47	23	Andromeda: Mirachs Ghost
	Primary Focus	Broadband	Galaxies	Arp-133	09:05 – 01:08	11:03	24	Cetus: Minkowski's Object
	Primary Focus	Nebula	Nebula	SH2-188	07:24 – 02:58	11:08	25	Cassiopeia: Firefox Nebula
	Primary Focus	Broadband	OC	M-103	07:30 -02:58	11:11	25	Cassiopeia: Open Cluster
	Primary Focus	Broadband	Galaxy	NGC-772	08:28 – 02:51	11:37	27	Aries: Nautilus Galaxy
	Primary Focus	Broadband	Galaxy	NGC-1055	10:12 – 02:33	12:19	31	Cetus: Edge On Galaxy
	Primary Focus	Broadband	OC	M-34	08:35 – 04:10	12:19	31	Perseus: Open Cluster NGC-1039
	Primary Focus	Broadband	Galaxy	M-77	10:15 – 02:32	12:20	32	Cetus: Galaxy
	Primary Focus	Broadband	Galaxies	Abell-426	09:14 – 04:47	12:57	33	Perseus: Perseus Galaxy Cluster
	Primary Focus	Nebula	BN	NGC-1333	09:35 – 04:44	01:06	33	Perseus: Bright Nebula
	Primary Focus	Nebula	PN	NGC-1360	*11:22-03:06	01:10	33	Fornax: Blue Egg Nebula
	Primary Focus	Nebula	BN	IC-348	09:49 – 05:01	01:22	34	Perseus: Bright Nebula in Starfield
	Primary Focus	Broadband	Galaxy	IC-342	10:05 – 04:50	01:24	34	Camelopardalis: Large Face-On Galaxy
	Primary Focus	Nebula	PN	NGC-1555	10:50 – 05:15	01:59	36	Taurus: Hind's Variable Nebula
	Primary Focus	Nebula	BN	NGC-1579	10:30 – 05:23	02:07	37	Perseus: Trifid of the North
	Primary Focus	Broadband	DN	IC-2118	*12:11-05:17	02:39	38	Eridanus: Witch Head Nebula
	Primary Focus	Broadband	GC	M-79	*01:03-05:10	03:01	41	Lepus: Med Globular
	Primary Focus	Nebula	PN	IC-418	*12:59-05:10	03:04	41	Lepus: Spirograph Nebula
	Primary Focus	Nebula	Nebula	IC-417	11:30 – 05:23	03:05	42	Auriga: The Spider
	Primary Focus	Nebula	Nebula	NGC-1931	11:33 – 05:23	03:08	42	Auriga: The Fly

## Prospective Imaging Objects – November 01, 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Primary Focus	Nebula	Nebula	NGC-1977	01:35 – 05:23	03:12	45	Orion: Running Man Nebula
	Primary Focus	Broadband	BN, DN	M-78	01:18 – 05:23	03:23	50	Orion: Dark& Bright Nebula
	Primary Focus	Broadband	OC	M-37	11:56 – 05:23	03:29	50	Auriga: Salt and Pepper Cluster
	Primary Focus	Broadband	DN	LDN-1622	01:18 -05:23	03:31	52	Orion: Dark & Bright Nebula
	Primary Focus	Nebula	PN	IC-2165	*01:55-05:23	03:58	57	Canis Major: Small PN
	Primary Focus	Nebula	Nebula	NGC-2237	01:41 – 05:23	04:07	58	Monoceros: Rosette ROI
	Primary Focus	Broadband	RN	NGC-2261	01:36 – 05:23	04:16	59	Monoceros: Hubble's Variable Nebula
	Primary Focus	Nebula	Nebula	NGC-2265	01:34 – 05:23	04:17	60	Monoceros: Cone Nebula
	Primary Focus	Broadband	OC	M-41	*01:52-05:23	04:23	61	Canis Major: Open Cluster NGC-2287
	Primary Focus	Nebula	Nebula	IC-2177	*02:25-05:23	04:41	62	Monoceros: Seagull Nebula Head
	Primary Focus	Broadband	Galaxy	UGC-3697	01:54 – 05:23	04:48	63	Camelopardalis: Integral Sign Galaxy
	Primary Focus	Broadband	OC	M-47	*03:18 – 05:23	05:13	56	Puppis: Open Cluster NGC-2422
	Primary Focus	Nebula	PN	NGC-2440	*02:36-05:23	05:18	66	Puppis: Bow-Tie Nebula
	Primary Focus	Broadband	OC	M-93	*03:10-05:23	05:21	67	Puppis: Butterfly Cluster

# Prospective Imaging Objects – November 01, 2024

## Imaging Summary November 01, 2024

Astronomical Dusk = 06:59

Astronomical Dawn = 05:23

### Imaging Plans

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