

# Prospective Imaging Objects – July 05 2024

## Astronomical Data

Sunrise	Sunset	Astronomical Dusk	Astronomical Dawn	Imaging	New Moon
05:24am	07:41 pm	09:23 pm	03:43 am	06:20	July 05

## 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: \*10:14 – 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.

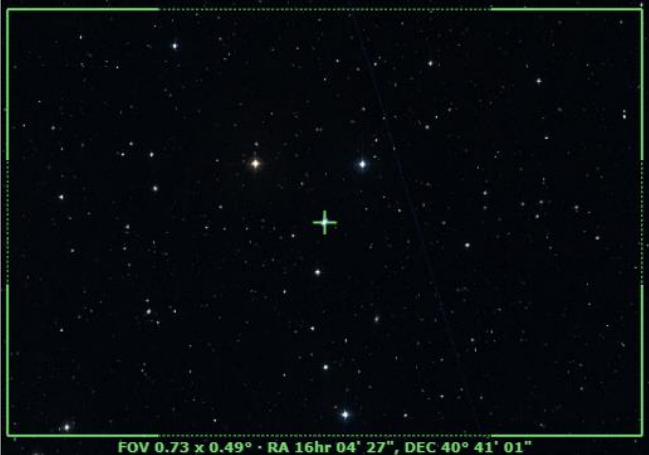


07: Imaging Window – Ideally the time the object is 45° above the horizon. Southern objects with negative DEC that do not peak above 45° are indicated with a \*. Imaging window for these objects may be based on 30° or even 25° above horizon for the imaging window.

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 – July 05 2024

<p><b>Sharpless 2-1 (SH2-1)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Scorpius</b>            Coordinates:  <b>15h 56' 09"</b>  <b>-25° 40' 29"</b></p> <p>Close Star: SAO-208078 (Wei)            Catalog Objects: <a href="#">SH2-1</a>/LBN-1093</p> <p>Imaging Window: *09:23 – 11:19            Transit: 09:25   31°</p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>Seyfert's Sextet (NGC-6027A-E)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Group &amp; One</b></p> <p>Constellation: <b>Serpens</b>            Coordinates:  <b>15h 59' 46"</b>  <b>20° 47' 27"</b></p> <p>Close Star: SAO-83893            Catalog Objects: <a href="#">NGC-6027A-E</a>, UGC-10127</p> <p>Imaging Window: 09:23 – 12:44            Transit: 09:26   77°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC-6027 (Seyfert's Sextet)            Constellation: Serpens            Right Ascension: 15h 59m 46.00s            Declination: 20° 47' 27.00"            Epoch: J2000.0            Catalog Objects: NGC-6027A, NGC-6027B, NGC-6027C, NGC-6027D, NGC-6027E, UGC-10127</p>
<p><b>Hercules Galaxy Cluster (Abell-2151)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Hercules</b>            Coordinates:  <b>16h 05' 13"</b>  <b>17° 45' 39"</b></p> <p>Close Star: SAO-100944 (Arcturus)            Catalog Objects: <a href="#">Abell-2151</a></p> <p>Imaging Window: 09:23 – 12:43            Transit: 09:32   74°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Hercules Cluster of galaxies (Abell 2151)            Constellation: Hercules            Right Ascension: 16h 05m 13.00s            Declination: 17° 45' 39.00"            Epoch: J2000.0            Catalog Objects: Abell 2151</p>


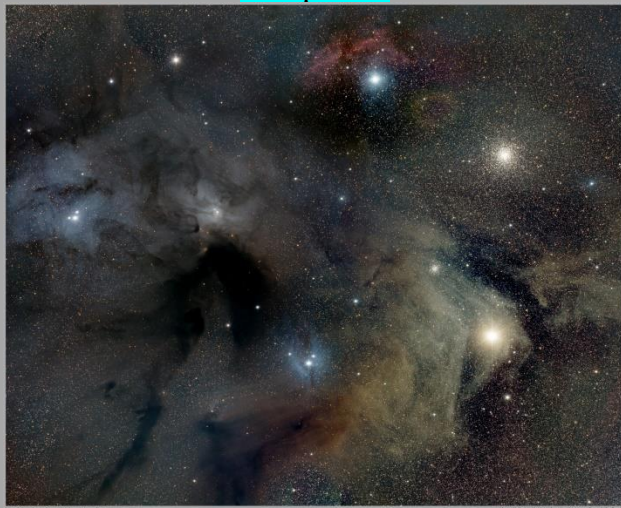

# Prospective Imaging Objects – July 05 2024

<p><b>NGC-6058</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Hercules</b> Coordinates: <b>16h 04' 27"</b> <b>40° 41' 01"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">NGC-6058</a> Imaging Window: <b>09:23 – 01:19</b> Transit: <b>09:31   83°</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 16hr 04' 27", DEC 40° 41' 01"</p>
<p><b>Tadpole Galaxy (Arp-188)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Draco</b> Coordinates: <b>16h 06' 04"</b> <b>55° 26' 07"</b></p> <p>Close Star: <b>SAO-28737</b> (Mizar) Catalog Objects: <a href="#">Arp-188</a>, PGC-57087, 57114, 57108</p> <p>Imaging Window: <b>09:23 – 01:25</b> Transit: <b>09:32   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center; font-size: x-small;">Tadpole Galaxy (ARP-188) Constellation: Draco the Dragon   RA = 16h 06m 58.5s, DEC = +55deg 26' 07.7"   Size = 41.8 x 27.9 arcmin   Orientation: 358deg E of N   Pixel scale = 0.446 arcsec/pix   James Yoder   Date: 2023/05/11   Location: Monticello Greenhill, TN, USA, AZ   Camera: C-11 HD Primary Focus   Filter: Q92 (28x, F1.0)   Exposure Info: (300min/2min Gain: 2000) (OIFSI: 100)</p>
<p><b>White Eyed Pea (IC-4593)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Hercules</b> Coordinates: <b>15h 11' 45"</b> <b>12° 03' 45"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">IC-4593</a> Imaging Window: <b>09:23 – 12:35</b> Transit: <b>09:38   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center; font-size: x-small;">White Eyed Pea Nebula (IC-4593) Constellation: Hercules   RA = 15h 11m 45.0s, DEC = +12deg 03' 45.0"   Size = 4.8 x 3.8 arcmin   Orientation: 90deg E of N   Pixel scale = 0.11 arcsec/pix   James Yoder   Date: 2023/05/11   Location: Monticello Greenhill, TN, USA, AZ   Camera: C-11 HD Primary Focus   Filter: Q92 (28x, F1.0)   Exposure Info: (300min/2min Gain: 2000) (OIFSI: 100)</p>




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<p><b>Blue Horshead (IC-4592)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Scorpius</b>            Coordinates:  <b>16h 14' 15"</b>  <b>-19° 17' 16"</b></p> <p>Close Star: <b>SAO-184415</b> (Antares)            Catalog Objects: <a href="#">IC-4592</a></p> <p>Imaging Window: *<b>09:23 – 11:40</b>            Transit: <b>09:39   37°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Blue Horse Nebula (IC-4592)            Constellation: Scorpius  <small>(RA = 16h 14m 12.7s, DEC = -19deg 17' 13.9") Size = 3.45deg x 2.3deg Orientation: 170deg E of N. Pixel scale = 2.27 arcsecond/px (1.0/0.8um)</small></p> <p style="font-size: x-small; text-align: right;">James Todd   Dated: 2024-05-21   Location: Mountaintop Central, Utahland, AZ              Config: C-11HD   HyperStar V4   Baader HighLine Filter (OHV126)              Exposure Info: 200img/Star   Gain: 3200   Offset: 100</p>
<p><b>M-80 (NGC-6093)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Scorpius</b>            Coordinates:  <b>16h 17' 02"</b>  <b>-22° 58' 28"</b></p> <p>Close Star: <b>SAO-184415</b> (Antares)            Catalog Objects: <a href="#">M-80</a>/NGC-6093            Imaging Window: *<b>09:23 – 11:58</b>            Transit: <b>09:43   34°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Globular Cluster M-80            Constellation: Scorpius  <small>(RA = 16h 17m 02.6s, DEC = -22deg 58' 32.1") Size = 31.7 x 27.8 arcmin Orientation: 0 deg E of N. Pixel scale = 0.997 arcsecond/px (1.0/1.25um)</small></p> <p style="font-size: x-small; text-align: right;">James Todd   Dated: 2024-04-02 - 2024-04-08   Location: Chandler, AZ              Config: C-11 HD Shadon Skyline   OHV126              Exposure Info: 400img/Star   Gain: 3200   Offset: 100</p>
<p><b>SH2-9</b>            Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Scorpius</b>            Coordinates:  <b>16h 20' 16"</b>  <b>-25° 25' 53"</b></p> <p>Close Star: <b>SAO-184415</b> (Antares)            Catalog Objects: <a href="#">SH2-9</a>            Imaging Window: <b>09:23 – 11:43</b>            Transit: <b>09:48   31°</b></p>	<p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b></b></p> 



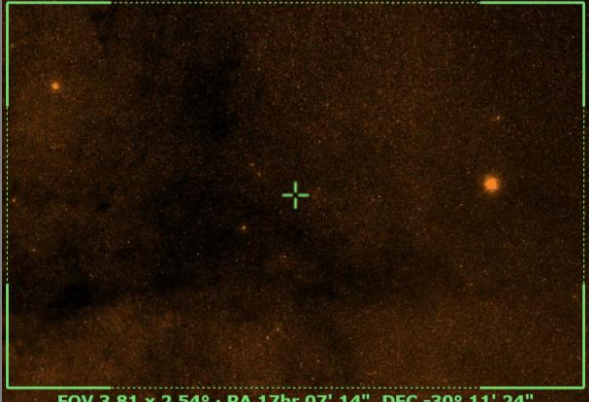
# Prospective Imaging Objects – July 05 2024

<p><b>M-4 (NGC-6121)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Scorpius</b> Coordinates: <b>16h 23' 35"</b> <b>-26° 31' 29"</b></p> <p>Close Star: <b>SAO-184415</b> (Antares) Catalog Objects: <a href="#">M-4/NGC-6121</a> Imaging Window: <b>*09:23 – 11:40</b> Transit: <b>09:50   30°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Globular Cluster Messier 4 Constellation: Scorpius RA = 16h 23m 35.0s DEC = -26deg 31' 29.1" Size = 17.8 x 27.0 arcmin Orientation: 0 deg E of N Pixel scale = 0.432 arcsec/pixel FL=2722mm James VanDer (Date) 2023 04 21 - 2023 04 21 Location: Chandler, AZ Config:  C-11 HD Bundus HyperStar Filter  QHY726C  Exposure Info: 330sec/Frame Gain: 3200  Offset: 180</p>
<p><b>Ophiuchus Complex (IC-4604)</b> Config: <b>C11-HD   HS   ZWO6200MC</b> Composite with M-4 Type: <b>Bright Nebula</b> Constellation: <b>Scorpius</b> Coordinates: Frame 01 RA: <b>16hr 26' 46"</b> DEC: <b>-24° 08' 13"</b> Frame 02 RA: <b>16hr 26' 46"</b> DEC: <b>-26° 14' 42"</b></p> <p>Close Star: <b>SAO-184415</b> (Antares) Catalog Objects: <a href="#">IC-4604</a></p> <p>Imaging Window: <b>*09:23 – 12:07</b> Transit: <b>09:52   33°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4 Composite!</b></p>  <p style="font-size: small;">Ophiuchus Complex Region Constellation: Ophiuchus and Scorpius RA = 16h 26m 46.0s DEC = -24deg 08' 13.0" Size = 1.7 arcmin Orientation: 194 deg E of N James VanDer (Date) 2023 05 13 - 2023 05 13 Location: Mesa Verde, AZ Config:  C-11 HD HyperStar v4 Bundle HyperStar Filter  QHY726C  33 sec/Frame Exposure Info: 330sec/Frame Gain: 3200  Offset: 180</p>
<p><b>Perfect Planetary Nebula (Abell-39)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Hercules</b> Coordinates: <b>16h 27' 34"</b> <b>27° 54' 29"</b></p> <p>Close Star: <b>SAO-84951</b> (Sarin) Catalog Objects: <a href="#">Abell-39/PN A66.39</a> Imaging Window: <b>09:23 – 01:26</b> Transit: <b>09:54   84°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Planetary Nebula Abell-39 Constellation: Hercules RA = 16h 27m 34.0s DEC = -27deg 54' 29.0" Size = 39 x 26 arcmin Orientation: 0 deg E of N Pixel scale = 0.446 arcsec/pixel FL=2000mm James VanDer (Date) 2023 05 13 - 2023 05 13 Location: Mesa Verde, AZ Config:  C-11 HD  HyperStar Filter  QHY726C  Exposure Info: 330sec/Frame Gain: 3200  Offset: 180</p>

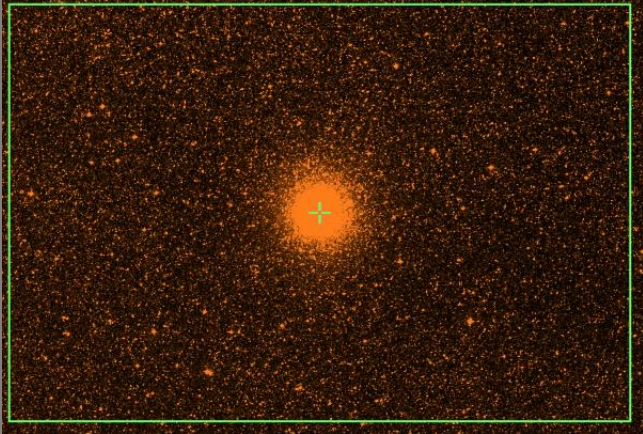
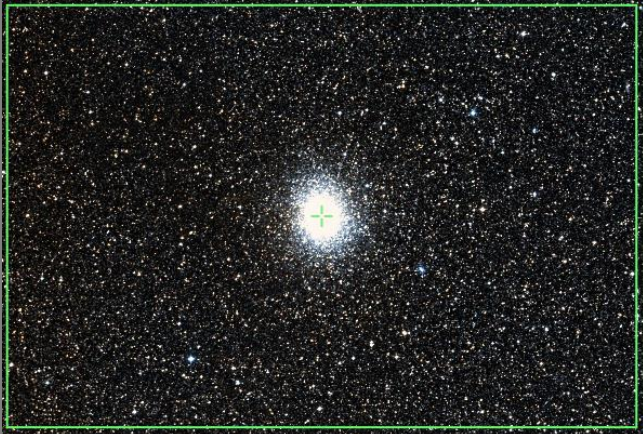
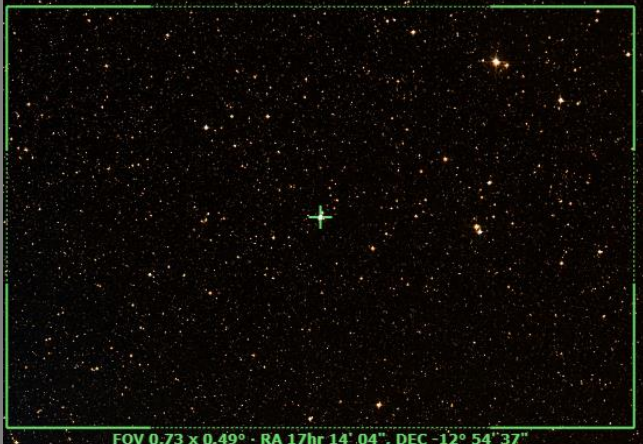
# Prospective Imaging Objects – July 05 2024

<p><b>M-107</b> (NGC-6171) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Ophiuchus</b> Coordinates: <b>16h 32' 32"</b> <b>-13° 03' 11"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi) Catalog Objects: <a href="#">M-107</a>/NGC-6171 Imaging Window: *<b>09:23 – 12:04</b> Transit: <b>09:59   44°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Hercules Cluster</b>(M-13) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Hercules</b> Coordinates: <b>16h 41' 41"</b> <b>36° 27' 39"</b></p> <p>Close Star: <b>SAO-067174</b> (Vega) Catalog Objects: <a href="#">M-13</a>/NGC-6205 Imaging Window: <b>09:23 – 01:52</b> Transit: <b>10:08   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Great Hercules Cluster M-13 (NGC-6205) Constellation: Hercules RA: 16h 41m 41.00s DEC: 36° 27' 39.00" Image Size: 40 x 30 arcmin Pixel scale: 0.440 arcsec/pixel Date: 2024-05-02 21:00:00 UTC Location: 3000' elevation, 3000' alt Camera: C-11 HD (11000) Filter: G27 (12h) F5.6 2000 Exposure: 140 x 10000/10000/10000/10000/10000/10000/10000/10000/10000/10000</p>
<p><b>Turtle Nebula</b> (NGC-6210) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Hercules</b> Coordinates: <b>16h 44' 29"</b> <b>23° 48' 02"</b></p> <p>Close Star: <b>SAO-84411</b> (Kornephoros) Catalog Objects: <a href="#">NGC-6210</a> Imaging Window: <b>09:23 – 01:35</b> Transit: <b>10:11   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Planetary Nebula NGC-6210 Constellation: Hercules Coordinates: RA: 16h 44m 29.00s DEC: 23° 48' 02.00" Image Size: 27 x 19 arcmin Orientation: N/A E of N1: Not used: 9.27 arcsec/pixel TL: 2000px Date: 2024-05-02 21:00:00 UTC Location: 3000' elevation, 3000' alt Camera: C-11 HD (11000) Filter: G27 (12h) F5.6 2000 Exposure: 140 x 10000/10000/10000/10000/10000/10000/10000/10000/10000/10000</p>

# Prospective Imaging Objects – July 05 2024

<p><b>M-12</b>(NGC-6218) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Ophiuchus</b> Coordinates: <b>16h 47' 15"</b> <b>-01° 56' 50"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi) Catalog Objects: <a href="#">M-12</a>/NGC-6218 Imaging Window: <b>09:23 – 12:15</b> Transit: <b>10:13   55°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">             Globular Cluster Messier 12              James Van Der Meer   Date: 2023-04-23   Location: Clearlake, AZ              Constellation: Ophiuchus   Config: C-11 HD (Bioshield Filter)   QHY126                RA = 16h 47m 16.0s DEC = -01deg 57' 39.8"   Size = 17.7 x 27.0 arcmin   Orientation: 0 deg E of N   Pixel scale = 0.452 arcsec/pixel   FL = 2725mm                Exposure Info: 41 frames/2min   Gain: 3200   Offset: 100           </p>
<p><b>M-10</b>(NGC-6254) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Ophiuchus</b> Coordinates: <b>16h 57' 09"</b> <b>-04° 05' 56"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi) Catalog Objects: <a href="#">M-10</a>/NGC-6254 Imaging Window: <b>09:23 – 12:12</b> Transit: <b>10:23   53°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">             Globular Cluster M-10 (NGC-6254)              James Van Der Meer   Date: 2023-04-23   Location: Clearlake, AZ              Constellation: Ophiuchus   Config: C-11 HD (Bioshield Filter)   QHY126                RA = 16h 57m 09.0s DEC = -04deg 05' 56.0"   Size = 17.7 x 27.0 arcmin   Orientation: 0 deg E of N   Pixel scale = 0.452 arcsec/pixel   FL = 2725mm                Exposure Info: 41 frames/2min   Gain: 3200   Offset: 100           </p>
<p><b>M-62 Region</b> (NGC-6266) Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Ophiuchus</b> Coordinates: <b>16h 25' 36"</b> <b>-23° 27' 00"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi) Catalog Objects: <a href="#">M-62</a>/NGC-6266 Imaging Window: <b>*09:23 – 11:36</b> Transit: <b>10:27   33°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="text-align: center; font-size: small;"> <b>FOV 3.81 x 2.54° - RA 17hr 07' 14", DEC -30° 11' 24"</b> </p>

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<p><b>M-62</b>(NGC-6266) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Ophiuchus</b> Coordinates: <b>17h 01' 13"</b> <b>-30° 06' 42"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi) Catalog Objects: <a href="#">M-62</a>/NGC-6266 Imaging Window: *<b>09:23 – 11:36</b> Transit: <b>10:27   33°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-19</b>(NGC-6273) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Ophiuchus</b> Coordinates: <b>17h 02' 38"</b> <b>-26° 16' 03"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi) Catalog Objects: <a href="#">M-19</a>/NGC-6273 Imaging Window: *<b>09:23 – 12:19</b> Transit: <b>10:29   30°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Box Nebula</b> (NGC-6309) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Ophiuchus</b> Coordinates: <b>17h 14' 04"</b> <b>-12° 54' 37"</b></p> <p>Close Star: <b>SAO-160332</b> (Sabik) Catalog Objects: <a href="#">NGC-6309</a> Imaging Window: *<b>09:23 – 12:43</b> Transit: <b>10:40   44°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 



# Prospective Imaging Objects – July 05 2024

<p><b>M-92</b>(NGC-6341) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Hercules</b> Coordinates: <b>17h 17' 07"</b> <b>43° 08' 13"</b></p> <p>Close Star: <b>SAO-067174</b> (Vega) Catalog Objects: <a href="#">M-92</a>/NGC-6341 Imaging Window: <b>09:23 – 02:34</b> Transit: <b>10:43   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-9</b>(NGC-6333) Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Glob Cluster &amp; DNeB</b></p> <p>Constellation: <b>Ophiuchus</b> Coordinates: <b>17h 18' 24"</b> <b>-18° 34' 58"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi) Catalog Objects: <a href="#">M-9</a>/NGC-6333 Imaging Window: <b>*09:23 – 12:58</b> Transit: <b>10:45   38°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> <p style="text-align: center;">FOV 1.04.x 0.70° • RA 17h 18' 24", DEC -18° 34' 58"</p> 
<p><b>M-9</b>(NGC-6333) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Glob Cluster &amp; DNeB</b></p> <p>Constellation: <b>Ophiuchus</b> Coordinates: <b>17h 19' 12"</b> <b>-18° 30' 57"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi) Catalog Objects: <a href="#">M-9</a>/NGC-6333 Imaging Window: <b>*09:23 – 12:58</b> Transit: <b>10:45   38°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – July 05 2024

## Dark Horse Nebula (LDN 42)

Config: C11-HD | HS |  
ZWO6200MC

Type: Dark Nebula

Constellation: Ophiuchus

Frame 01

RA: 17hr 32' 42" DEC: -24° 55' 48"

Frame 02

RA: 17hr 19' 18" DEC: -24° 55' 48"

Frame 03

RA: 17hr 32' 49" DEC: -26° 57' 43"

Frame 04

RA: 17hr 19' 11" DEC: -26° 57' 43"

Close Star: SAO-184415 (Antares)

Catalog Objects: [LDN-42](#)

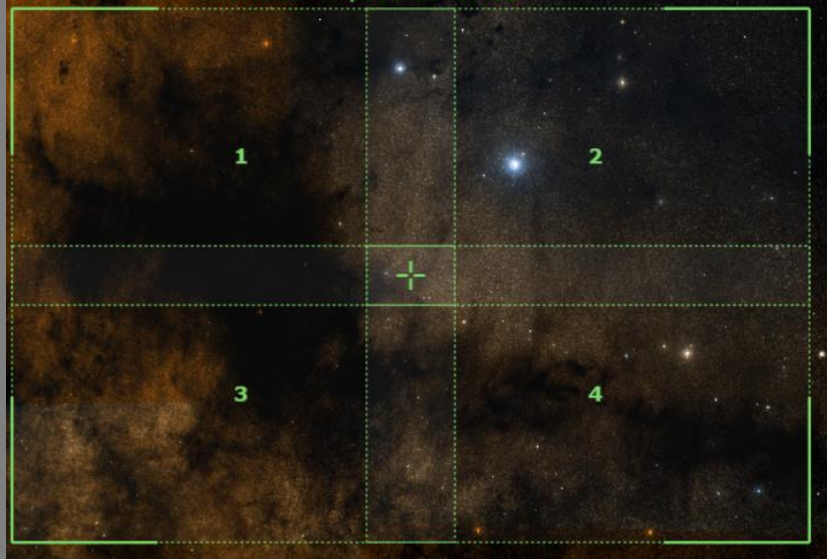
Imaging Window: \*09:23 – 12:51

Transit: 10:58 | 31°

C-11 HD: HyperStar v4

Composite!

FOV 6.84 x 4.57° · RA 17hr 26' 00", DEC -25° 57' 21"



## Pipe Nebula (LDN 1773)

Config: C11-HD | HS |  
ZWO6200MC

Type: Dark Nebula

Constellation: Ophiuchus

Coordinates:

17h 19' 54"

-26° 52' 60"

Close Star: SAO-184415 (Antares)

Catalog Objects: [LDN-1773](#)


Imaging Window: \*09:23 – 12:33

Transit: 10:46 | 30°

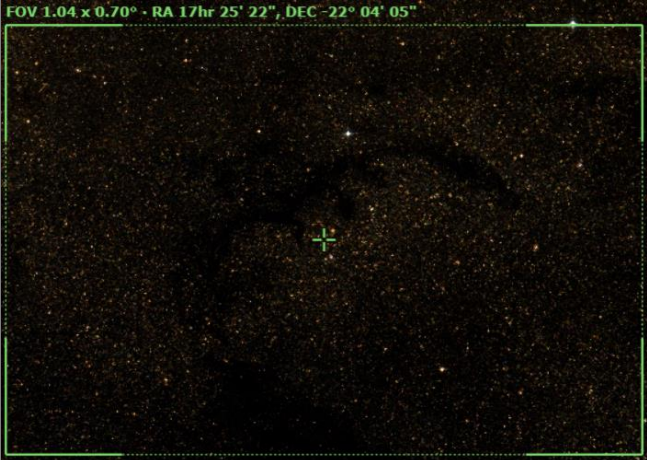

C-11 HD: HyperStar v4




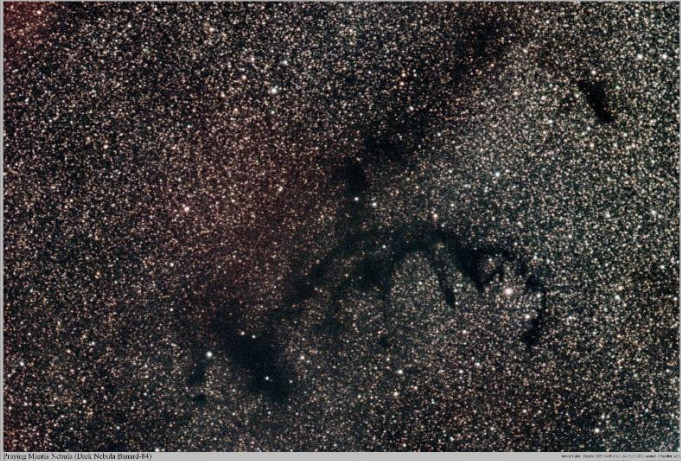

# Prospective Imaging Objects – July 05 2024

<p><b>Pipe Nebula (LDN 1773)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Dark Nebula</b></p> <p>Constellation: <b>Ophiuchus</b>            Coordinates:  <b>17h 20' 10"</b>  <b>-26° 50' 18"</b></p> <p>Close Star: <b>SAO-184415 (Antares)</b></p> <p>Catalog Objects: <a href="#">LDN-1773</a>            Imaging Window: *09:23 – 12:33            Transit: 10:46   30°</p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>The Snake Nebula (B-72)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Dark Nebula</b></p> <p>Constellation: <b>Ophiuchus</b>            Coordinates:  <b>17h 25' 49"</b>  <b>-23° 58' 05"</b></p> <p>Close Star: <b>SAO-160006 (zeta Ophi)</b>            Catalog Objects: <a href="#">B-72</a>/LDN-66            Imaging Window: *09:23 – 01:04            Transit: 10:50   33°</p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>The Snake Nebula (B-72)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Dark Nebula</b></p> <p>Constellation: <b>Ophiuchus</b>            Coordinates:  <b>17h 24' 19"</b>  <b>-23° 39' 06"</b></p> <p>Close Star: <b>SAO-160006 (zeta Ophi)</b>            Catalog Objects: <a href="#">B-72</a>/LDN-66            Imaging Window: *09:23 – 01:04            Transit: 10:50   33°</p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 




# Prospective Imaging Objects – July 05 2024

<p><b>Barnard 75 (B-75)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Dark Nebula</b></p> <p>Constellation: <b>Ophiuchus</b>            Coordinates:  <b>17h 25' 22"</b>  <b>-22° 04' 05"</b></p> <p>Close Star: <b>SAO-184415</b> (Antares)            Catalog Objects: <a href="#">B-75</a>/LDN-112            Imaging Window: *<b>09:23 – 12:33</b>            Transit: <b>10:51   35°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Little Ghost (NGC-6369)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Ophiuchus</b>            Coordinates:  <b>17h 29' 20"</b>  <b>-23° 45' 33"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi)            Catalog Objects: <a href="#">NGC-6369</a>            Imaging Window: *<b>09:23 – 01:11</b>            Transit: <b>10:55   33°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-14(NGC-6402)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Ophiuchus</b>            Coordinates:  <b>17h 37' 36"</b>  <b>-03° 14' 43"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi)            Catalog Objects: <a href="#">M-14</a>/NGC-6402            Imaging Window: <b>09:23 – 12:57</b>            Transit: <b>11:04   53°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

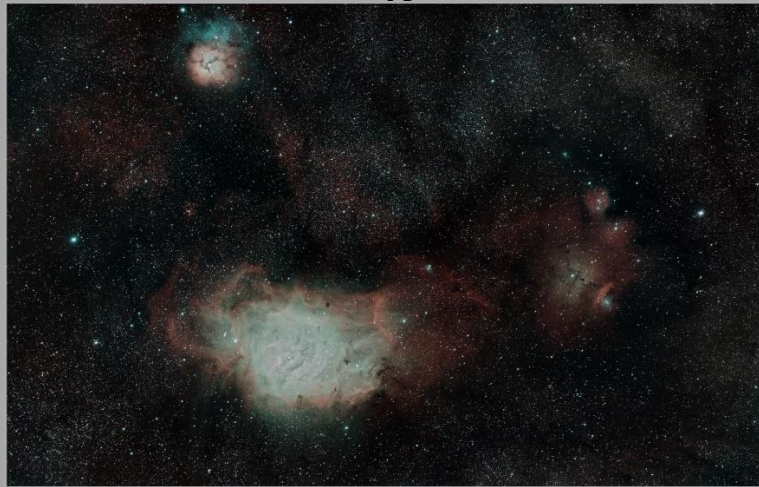
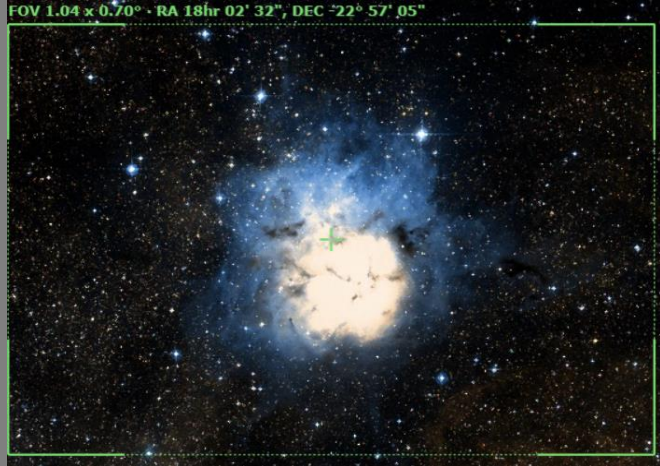

# Prospective Imaging Objects – July 05 2024

<p><b>Butterfly Cluster</b> (M-6)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Scorpius</b>            Coordinates:  <b>17h 40' 20"</b>  <b>-32° 15' 30"</b></p> <p>Close Star: <b>SAO-210091</b> (Kaus Aus.)            Catalog Objects: <a href="#">M-6</a>/NGC-6405            Imaging Window: *<b>09:23 – 12:51</b>            Transit: <b>11:06   24°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Praying Matis Nebula</b> (B-84)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula</b></p> <p>Constellation: <b>Sagittarius</b>            Coordinates:  <b>17h 46' 24"</b>  <b>-20° 08' 31"</b></p> <p>Close Star: <b>SAO-210091</b> (Kaus Aus.)            Catalog Objects: <a href="#">B-84</a>/LDN-235            Imaging Window: *<b>09:23 – 01:04</b>            Transit: <b>11:13   36°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Box Nebula</b> (NGC-6445)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Sagittarius</b>            Coordinates:  <b>17h 49' 15"</b>  <b>-20° 00' 32"</b></p> <p>Close Star: <b>SAO-210091</b> (Kaus Aus.)            Catalog Objects: <a href="#">NGC-6445</a>            Imaging Window: *<b>09:23 – 01:08</b>            Transit: <b>11:15   37°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – July 05 2024

<p><b>Ptolemy Cluster</b><sup>(M-7)</sup>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Scorpius</b>            Coordinates:  <b>17h 53' 39"</b>  <b>-34° 48' 53"</b></p> <p>Close Star: <b>SAO-210091</b> (Kaus Aus.)            Catalog Objects: <a href="#">M-7</a>/NGC-6475            Imaging Window: *<b>10:15 – 12:33</b>            Transit: <b>11:20   22°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-23</b><sup>(NGC-6494)</sup>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Sagittarius</b>            Coordinates:  <b>17h 56' 56"</b>  <b>-19° 00' 42"</b></p> <p>Close Star: <b>SAO-184415</b> (Antares)            Catalog Objects: <a href="#">M-23</a>/NGC-6494            Imaging Window: *<b>09:25 – 01:30</b>            Transit: <b>11:23   38°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Cat's Eye Nebula</b><sup>(NGC-6543)</sup>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Draco</b>            Coordinates:  <b>17h 59' 00"</b>  <b>66° 37' 39"</b></p> <p>Close Star: <b>SAO-18222</b> (Altais)            Catalog Objects: <a href="#">NGC-6543</a>            Imaging Window: <b>09:23 – 02:56</b>            Transit: <b>11:25   57°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Cat's Eye Nebula (NGC-6543)            Constellation: Draco            RA: 17h 59m 24s DEC: +66deg 37' 39" Size: 48 x 22 arcmin Orientation: 0.11 deg @ 0°N (Field width: 0.441 arcmin) TS: 2000sec</p> <p style="font-size: x-small; text-align: right;">           Avnet 1000   Date: 2024-05-11   Location: Cheshire, CT            Config:  C11HD Antares04 C54C30 ZWO6200MC             Exposure: 60s   Filter: None   Gain: 1000   Offset: 100         </p>

# Prospective Imaging Objects – July 05 2024




<p><b>Lagoon Region</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Sagittarius</b>            Coordinates:  <b>18h 05' 54"</b>  <b>-23° 56' 32"</b></p> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis)            Catalog Objects: <a href="#">M-8</a>/NGC-6523, M-20, NGC-6544            Imaging Window: *09:23 – 01:43            Transit: <b>11:29</b>   <b>34°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p>  <p><small>M-8 Region            Constellation: Sagittarius            Date: 2024-05-05 21:00:00            Time: 21:00:00            Filter: HyperStar v4            Exposure: 15.00            Gain: 100            Offset: 0</small></p>
<p><b>Trifid Nebula</b>(M-20)            Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Sagittarius</b>            Coordinates:  <b>18h 02' 32"</b>  <b>-22° 57' 05"</b></p> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis)            Catalog Objects: <a href="#">M-8</a>/NGC-6523            Imaging Window: *09:23 – 01:43            Transit: <b>11:29</b>   <b>34°</b></p>	<p><b>C-11 HD: Focal Reducer</b></p> <p>FOV 1.04 x 0.70° • RA 18hr 02' 32", DEC -22° 57' 05"</p>  <p><small>M-8 Region            Constellation: Sagittarius            Date: 2024-05-05 21:00:00            Time: 21:00:00            Filter: Focal Reducer            Exposure: 15.00            Gain: 100            Offset: 0</small></p>
<p><b>Trifid Nebula</b>(M-20)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Sagittarius</b>            Coordinates:  <b>18h 02' 42"</b>  <b>-22° 57' 60"</b></p> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis)            Catalog Objects: <a href="#">M-20</a>/NGC-6514            Imaging Window: *09:23 – 01:43            Transit: <b>11:29</b>   <b>34°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p><small>Trifid Nebula (M-20/NGC-6514)            Constellation: Sagittarius            Date: 2024-05-05 21:00:00            Time: 21:00:00            Filter: No Filter            Exposure: 15.00            Gain: 100            Offset: 0</small></p>

# Prospective Imaging Objects – July 05 2024


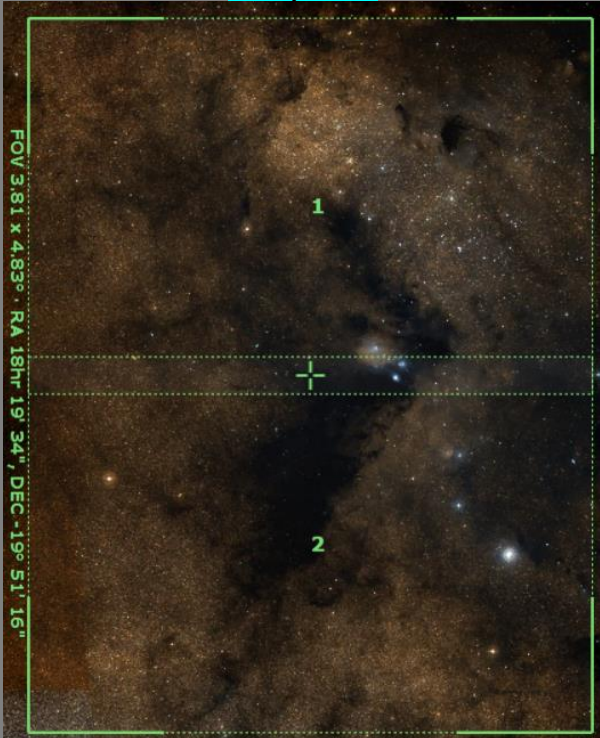
<p><b>Lagoon Nebula (M-8)</b> Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Sagittarius</b> Coordinates: <b>18h 04' 04"</b> <b>-24° 19' 52"</b></p> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis) Catalog Objects: <a href="#">M-8</a>/NGC-6523 Imaging Window: *<b>09:28 – 01:34</b> Transit: <b>11:30   32°</b></p>	<p style="text-align: center;">C-11 HD: <b>Focal Reducer</b></p> 
<p><b>Lagoon Nebula (M-8)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Sagittarius</b> Coordinates: <b>18h 04' 02"</b> <b>-24° 20' 56"</b></p> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis) Catalog Objects: <a href="#">M-8</a>/NGC-6523 Imaging Window: *<b>09:28 – 01:34</b> Transit: <b>11:30   32°</b></p>	<p style="text-align: center;">C-11 HD: <b>Primary Focus</b></p> <p style="text-align: center; font-size: small;">FOV 0.73 x 0.49° • RA 18h 04' 02", DEC -24° 20' 56"</p> 
<p><b>M-21(NGC-6531)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Sagittarius</b> Coordinates: <b>18h 04' 13"</b> <b>-22° 30' 00"</b></p> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis) Catalog Objects: <a href="#">M-21</a>/NGC-6531 Imaging Window: *<b>10:04 – 01:08</b> Transit: <b>11:30   34°</b></p>	<p style="text-align: center;">C-11 HD: <b>Primary Focus</b></p> 



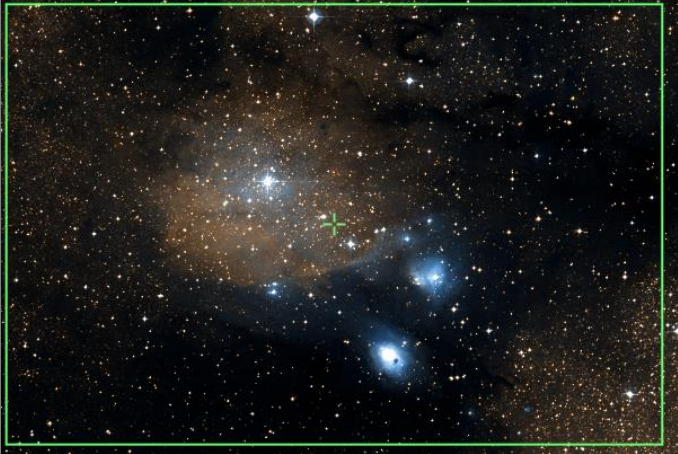


# Prospective Imaging Objects – July 05 2024

<p><b>IC-4685</b> (IC-4685)            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Sagittarius</b>            Coordinates:  <b>18h 09' 29"</b>  <b>-23° 50' 25"</b></p> <p>Close Star: SAO-209696 (Alnasl)  <b>Rotation 90°</b></p> <p>Catalog Objects: <a href="#">IC-1274</a>            Imaging Window: *09:31 – 01:51            Transit: 11:37   33°</p>	<p><b>C-11 HD: Focal Reducer</b></p> 
<p><b>IC-1274</b> (IC-1275)            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Sagittarius</b>            Coordinates:  <b>18h 09' 41"</b>  <b>-23° 52' 50"</b></p> <p>Close Star: SAO-184415 (Antares)</p> <p>Catalog Objects: <a href="#">IC-1274</a>            Imaging Window: *09:31 – 01:51            Transit: 11:37   33°</p>	<p><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Emerald Nebula</b> (NGC-6572)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Ophiuchus</b>            Coordinates:  <b>18h 12' 06"</b>  <b>06° 51' 15"</b></p> <p>Close Star: SAO-102932 (Rasalhague)            Catalog Objects: <a href="#">NGC-6572</a>            Imaging Window: 09:23 – 02:18            Transit: 11:38   64°</p>	<p><b>C-11 HD: Primary Focus</b></p> 



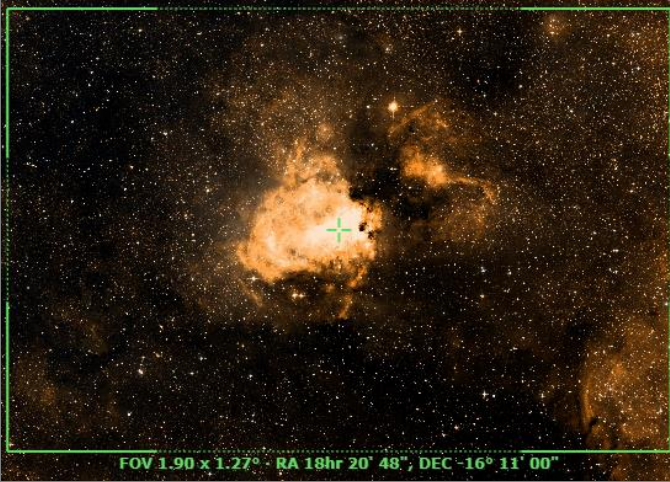
# Prospective Imaging Objects – July 05 2024

<p><b>B-93</b>(LDN-327)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula</b></p> <p>Constellation: <b>Sagittarius</b>            Coordinates:  <b>18h 16' 12"</b>  <b>-18° 10' 19"</b></p> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis)            Catalog Objects: <a href="#">B-93</a>/LDN-327, B-92            Imaging Window: *<b>09:31 – 01:55</b>            Transit: <b>11:43   30°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>IC-1283 Region</b> (NGC-6589)            Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Dark Nebula</b></p> <p>Constellation: <b>Sagittarius</b>            Coordinates:</p> <ul style="list-style-type: none"> <li>• <b>Frame 1</b> <ul style="list-style-type: none"> <li>○ <b>RA: 18h 19' 34"</b></li> <li>○ <b>DEC: -18° 42' 41"</b></li> </ul> </li> <li>• <b>Frame 2</b> <ul style="list-style-type: none"> <li>○ <b>RA: 18h 19' 34"</b></li> <li>○ <b>DEC: -20° 59' 51"</b></li> </ul> </li> </ul> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis)            Catalog Objects: <a href="#">IC-1283</a>/NGC-6589</p> <p>Imaging Window: *<b>09:46 – 01:40</b>            Transit: <b>11:43   37°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b>  <b>Composite!</b></p> 

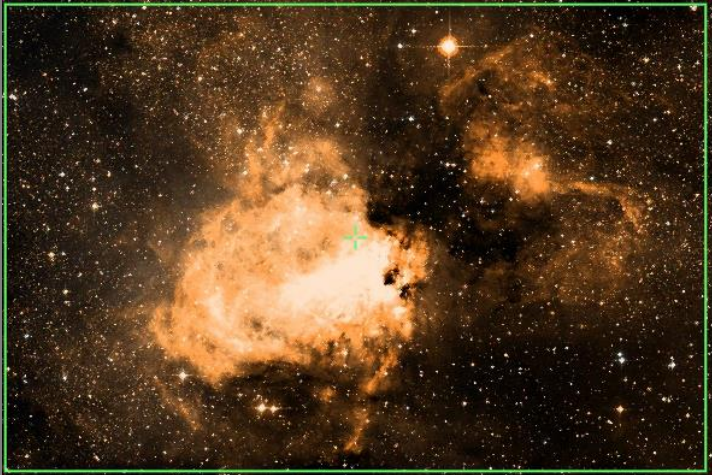


# Prospective Imaging Objects – July 05 2024

<p><b>IC-1283</b>(NGC-6589) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Sagittarius</b> Coordinates: <b>18h 17' 21"</b> <b>-19° 43' 10"</b></p> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis) Catalog Objects: <a href="#">IC-1283</a>/NGC-6589 Imaging Window: *<b>09:46 – 01:40</b> Transit: <b>11:43</b>   <b>37°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Sagittarius Star Cloud</b>(M-24) Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Sagittarius</b> Coordinates: <b>18h 18' 42"</b> <b>-18° 30' 43"</b></p> <p>Close Star: <b>SAO-184415</b> (Antares)</p> <p>Catalog Objects: <a href="#">M-24</a>/IC-4715, NGC-6603 Imaging Window: *<b>09:38 – 01:48</b> Transit: <b>11:43</b>   <b>38°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Eagle Nebula</b>(M-16) Config:  C11-HD HS ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Serpens</b> Coordinates: <b>18h 18' 52"</b> <b>-13° 51' 27"</b></p> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis) Catalog Objects: <a href="#">M-16</a>/NGC-6611 Imaging Window: *<b>09:46– 01:48</b> Transit: <b>11:45</b>   <b>43°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p><small>Eagle Nebula (M-16) Region © 2024 Skyline Systems 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 Skyline Systems.</small></p>


# Prospective Imaging Objects – July 05 2024

<p><b>Eagle Nebula</b>(M-16)            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Serpens</b>            Coordinates:  <b>18h 18' 52"</b>  <b>-13° 51' 27"</b></p> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis)            Catalog Objects: <a href="#">M-16</a>/NGC-6611            Imaging Window: *<b>09:46– 01:48</b>            Transit: <b>11:45   43°</b></p>	<p style="text-align: center;">C-11 HD: <b>Focal Reducer</b></p> 
<p><b>M-18</b>(NGC-6613)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Sagittarius</b>            Coordinates:  <b>18h 19' 58"</b>  <b>-17° 06' 06"</b></p> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis)            Catalog Objects: <a href="#">M-18</a>/NGC-6613            Imaging Window: *<b>10:18 – 01:19</b>            Transit: <b>11:46   40°</b></p>	<p style="text-align: center;">C-11 HD: <b>Primary Focus</b></p> 
<p><b>Omega Nebula</b>(M-17)            Config:  C11-HD HS ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Sagittarius</b>            Coordinates:  <b>18h 20' 44"</b>  <b>-16° 07' 04"</b></p> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis)            Catalog Objects: <a href="#">M-17</a>/NGC-6618, NGC-6618            Imaging Window: *<b>10:07 – 01:26</b>            Transit: <b>11:47   40°</b></p>	<p style="text-align: center;">C-11 HD: <b>HyperStar v4</b></p> 

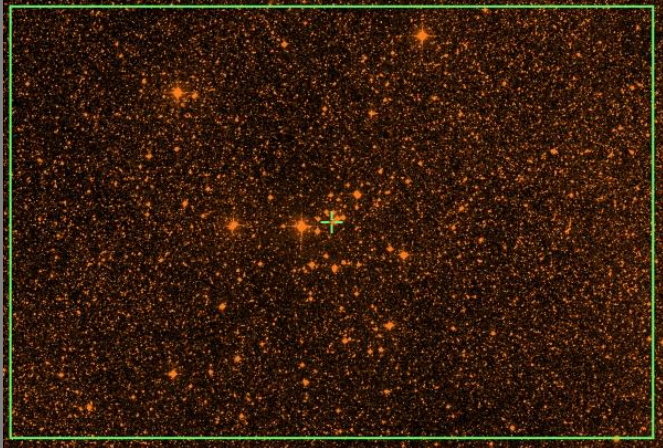


# Prospective Imaging Objects – July 05 2024

<p><b>Omega Nebula(M-17)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Sagittarius</b>            Coordinates:  <b>18h 20' 44"</b>  <b>-16° 07' 04"</b></p> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis)            Catalog Objects: <a href="#">M-17</a>/NGC-6618, NGC-6618            Imaging Window: *<b>10:07 – 01:26</b>            Transit: <b>11:47   40°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Omega Nebula(M-17)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Sagittarius</b>            Coordinates:  <b>18h 20' 44"</b>  <b>-16° 07' 04"</b></p> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis)            Catalog Objects: <a href="#">M-17</a>/NGC-6618, NGC-6618            Imaging Window: *<b>10:07 – 01:26</b>            Transit: <b>11:47   40°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p><small>Omega Nebula (M-17) Emission Nebula In Sagittarius</small></p> <p><small>James Weller 2018.07.31 C11 HD 2001 1001 100128   10000000</small></p>
<p><b>M-28(NGC-6626)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Sagittarius</b>            Coordinates:  <b>18h 24' 33"</b>  <b>-24° 52' 10"</b></p> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis)            Catalog Objects: <a href="#">M-28</a>/NGC-6626            Imaging Window: *<b>09:49 – 01:58</b>            Transit: <b>11:51   32°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

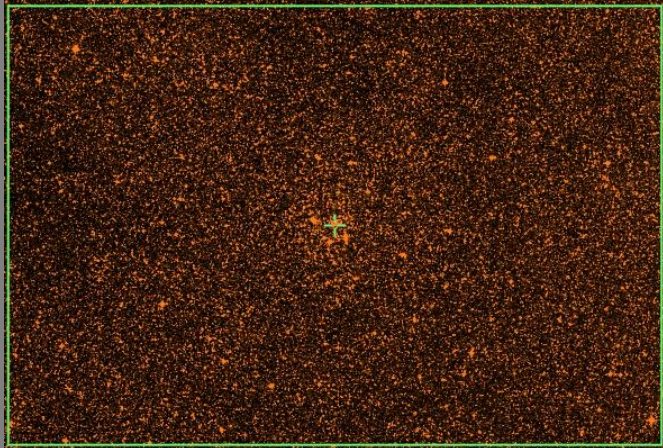
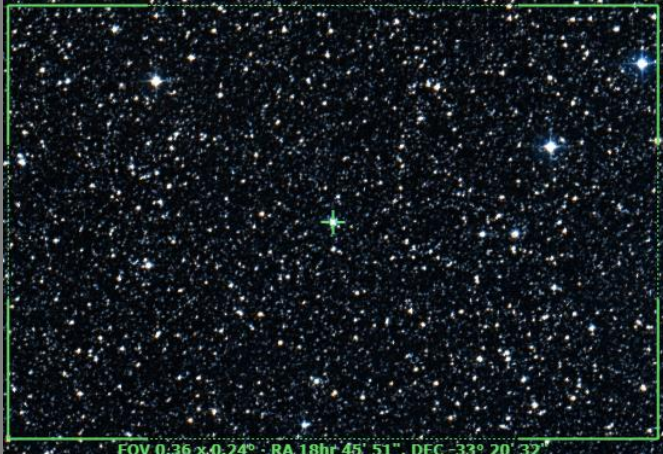
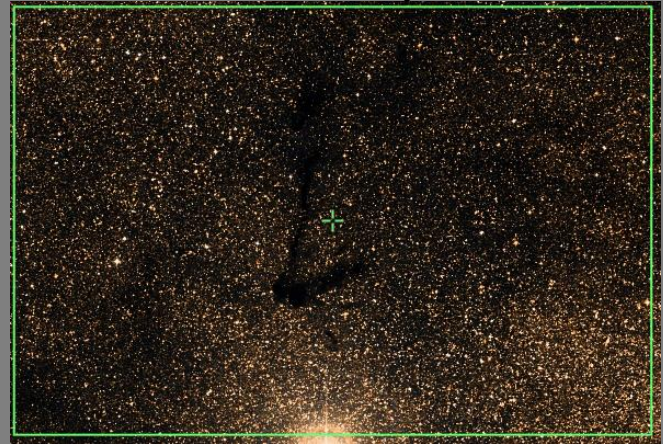
# Prospective Imaging Objects – July 05 2024

<p><b>NGC-6629</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Sagittarius</b> Coordinates: <b>18h 25' 42"</b> <b>-23° 12' 08"</b></p> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis) Catalog Objects: <a href="#">NGC-6629</a> Imaging Window: *<b>09:38 – 01:16</b> Transit: <b>11:52   33°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-6633</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Ophiuchus</b> Coordinates: <b>18h 27' 15"</b> <b>06° 30' 30"</b></p> <p>Close Star: <b>SAO-125122</b> (Altair) Catalog Objects: <a href="#">NGC-6633</a> Imaging Window: <b>09:23 – 02:33</b> Transit: <b>11:53   63°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-69</b>(<a href="#">NGC-6637</a>) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Sagittarius</b> Coordinates: <b>18h 31' 23"</b> <b>-32° 20' 51"</b></p> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis) Catalog Objects: <a href="#">M-69</a>/<a href="#">NGC-6637</a> Imaging Window: *<b>10:15 – 01:37</b> Transit: <b>11:57   24°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – July 05 2024




<p><b>M-25</b> (IC-4725) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Sagittarius</b> Coordinates: <b>18h 31' 45"</b> <b>-19° 07' 12"</b></p> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis) Catalog Objects: <a href="#">M-25</a> Imaging Window: *<b>09:56 – 02:01</b> Transit: <b>11:58   37°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-22</b> (NGC-6656) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Sagittarius</b> Coordinates: <b>18h 36' 24"</b> <b>-23° 54' 10"</b></p> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis) Catalog Objects: <a href="#">M-22</a>/NGC-6656 Imaging Window: *<b>09:56 – 02:16</b> Transit: <b>11:02   33°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p><small>M-22 Globular Cluster in Sagittarius</small></p> <p><small>*James Yoder 2018.05.27</small></p>
<p><b>M-70</b> (NGC-6681) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Sagittarius</b> Coordinates: <b>18h 43' 13"</b> <b>-32° 17' 29"</b></p> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis) Catalog Objects: <a href="#">M-70</a>/NGC-6681 Imaging Window: *<b>10:25 – 01:51</b> Transit: <b>12:09   24°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – July 05 2024


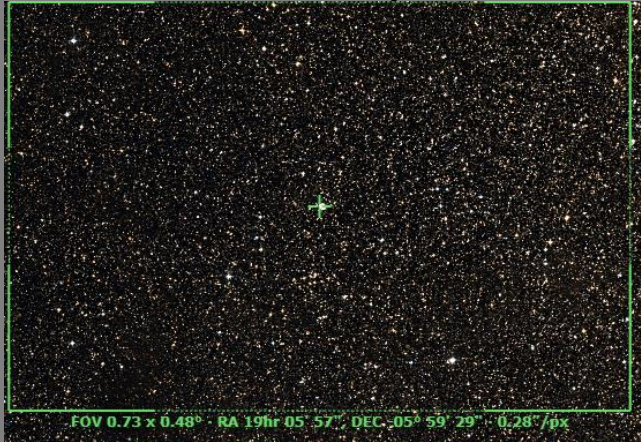
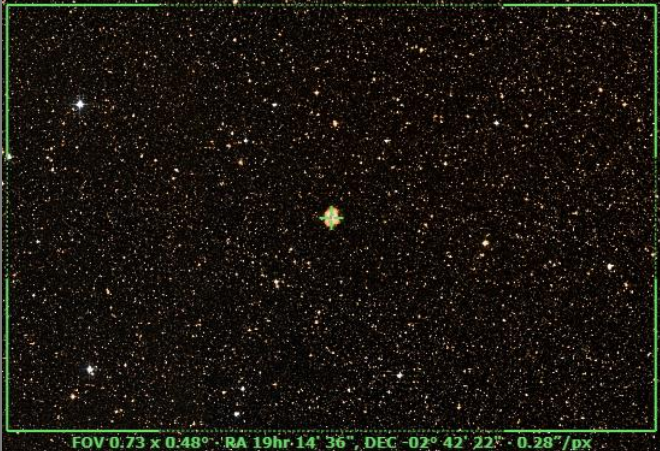
<p><b>M-26</b>(NGC-6694) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Sagittarius</b> Coordinates: <b>18h 45' 15"</b> <b>-09° 23' 06"</b></p> <p>Close Star: <b>SAO-125122</b> (Altair) Catalog Objects: <a href="#">M-26</a>/NGC-6694 Imaging Window: *<b>10:22 – 01:58</b> Transit: <b>12:11   47°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>IC-4776</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Sagittarius</b> Coordinates: <b>18h 45' 51"</b> <b>-33° 20' 32"</b></p> <p>Close Star: <b>SAO-186841</b> (Kaus Borealis) Catalog Objects: <a href="#">IC-4776</a> Imaging Window: *<b>10:40 – 01:43</b> Transit: <b>12:12   23°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>B-104</b>(LDN-532) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula</b></p> <p>Constellation: <b>Scutum</b> Coordinates: <b>18h 47' 09"</b> <b>-04° 28' 45"</b></p> <p>Close Star: <b>SAO-125122</b> (Altair) Catalog Objects: <a href="#">B-104</a>/LDN-532 Imaging Window: *<b>10:00 – 02:34</b> Transit: <b>12:13   52°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 



# Prospective Imaging Objects – July 05 2024

<p><b>Wild Duck Cluster</b>(M-11/NGC-6705)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Scutum</b>            Coordinates:  <b>18h 51' 05"</b>  <b>-06° 16' 12"</b></p> <p>Close Star: <b>SAO-125122</b> (Altair)            Catalog Objects: <a href="#">M-11</a>/NGC-6705            Imaging Window: *<b>10:07 – 02:31</b>            Transit: <b>12:17   50°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Ring Nebula</b>(M-57/NGC-6720)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Lyra</b>            Coordinates:  <b>18h 53' 35"</b>  <b>33° 01' 46"</b></p> <p>Close Star: <b>SAO-67174</b> (Vega)            Catalog Objects: <a href="#">M-57</a>/NGC-6720            Imaging Window: <b>09:23 – 03:43</b>            Transit: <b>12:19   90°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-54</b> (NGC-6715)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Sagittarius</b>            Coordinates:  <b>18h 55' 03"</b>  <b>-30° 28' 39"</b></p> <p>Close Star: <b>SAO-187448</b> (Nunki)            Catalog Objects: <a href="#">M-54</a>/NGC-6715            Imaging Window: *<b>10:22 – 02:27</b>            Transit: <b>12:21   26°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – July 05 2024

<p><b>Abell 50</b> (NGC-6742) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Draco</b> Coordinates: <b>21h 00' 33"</b> <b>54° 32' 38"</b></p> <p>Close Star: SAO-046872 (Iota Her) Catalog Objects: <a href="#">NGC-6742</a> Imaging Window: <b>09:23 – 03:43</b> Transit: <b>12:25   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;">FOV 0.73 x 0.48° · RA 21hr 00' 33", DEC 54° 32' 38" · 0.28"/px</p>
<p><b>Dandelion Puffball Nebula</b> (NGC-6751) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Aquila</b> Coordinates: <b>19h 05' 57"</b> <b>-05° 59' 29"</b></p> <p>Close Star: SAO-142931 (i Aquilae) Catalog Objects: <a href="#">NGC-6751</a> Imaging Window: *<b>12:25 – 02:45</b> Transit: <b>12:32   51°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;">FOV 0.73 x 0.48° · RA 19hr 05' 57", DEC -05° 59' 29" · 0.28"/px</p>
<p><b>NGC-6772</b> (PK 33-6.1) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Aquila</b> Coordinates: <b>19h 14' 36"</b> <b>-02° 42' 22"</b></p> <p>Close Star: SAO-142931 (i Aquilae) Catalog Objects: <a href="#">NGC-6772</a> Imaging Window: *<b>10:18 – 03:10</b> Transit: <b>12:40   54°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;">FOV 0.73 x 0.48° · RA 19hr 14' 36", DEC -02° 42' 22" · 0.28"/px</p>




# Prospective Imaging Objects – July 05 2024

<p><b>Barnard's Black Lizard (B-138)</b> Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Dark Nebula</b></p> <p>Constellation: <b>Aquila</b> Coordinates: <b>19h 15' 59"</b> <b>00° 13' 00"</b></p> <p>Close Star: <b>SAO-125122</b> (Altair) Catalog Objects: <a href="#">B-138</a> Imaging Window: <b>10:31 – 02:56</b> Transit: <b>12:40   58°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p> 
<p><b>M-56 (NGC-6779)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Lyra</b> Coordinates: <b>19h 16' 35"</b> <b>30° 11' 07"</b></p> <p>Close Star: <b>SAO-67663</b> (Sulafat) Catalog Objects: <a href="#">M-56</a>/<a href="#">NGC-6779</a> Imaging Window: <b>09:23 – 03:43</b> Transit: <b>12:42   87°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-6778 (PK 34-6.1)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Aquila</b> Coordinates: <b>19h 18' 24"</b> <b>-01° 36' 00"</b></p> <p>Close Star: <b>SAO-124068</b> (Alya) Catalog Objects: <a href="#">NGC-6778</a>/<a href="#">PK 34-6.1</a> Imaging Window: <b>10:47 – 02:48</b> Transit: <b>12:44   55°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 



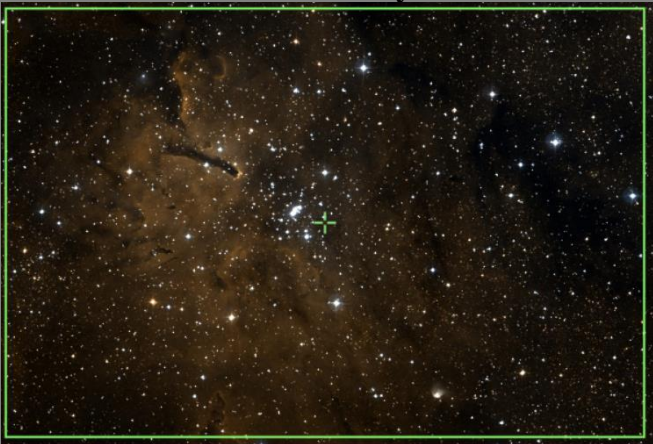
# Prospective Imaging Objects – July 05 2024

<p><b>NGC-6781</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Aquila</b> Coordinates: <b>19h 18' 28"</b> <b>06° 32' 25"</b></p> <p>Close Star: <b>SAO-125122</b> (Altair) Catalog Objects: <a href="#">NGC-6781</a>/PK 41-2.1 Imaging Window: <b>10:12 – 03:23</b> Transit: <b>12:44   63°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 
<p><b>LDN-673</b> Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Dark Nebula</b></p> <p>Constellation: <b>Aquila</b> Coordinates: <b>19h 18' 14"</b> <b>11° 15' 40"</b></p> <p>Close Star: <b>SAO-125122</b> (Altair) Catalog Objects: <a href="#">LDN-673</a> Imaging Window: <b>09:59 – 03:41</b> Transit: <b>12:47   68°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p> 
<p><b>Lot Ness Monster (LDN-772)</b> Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Dark Nebula</b></p> <p>Constellation: <b>Vulpecula</b> Coordinates: <b>19h 26' 46"</b> <b>23° 08' 59"</b></p> <p>Close Star: <b>SAO-125122</b> (Altair) Catalog Objects: <a href="#">LDN-772</a> Imaging Window: <b>09:23 – 03:43</b> Transit: <b>12:51   80°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p>  <p><small>Lot Ness Monster (LDN-772) Constellation: Vulpecula RA = 19h 26m 51.6s DEC = +23deg 08' 59.1" Size = 1.02 x 2.18 deg (Observation: 300kg E. of N. Pixel scale = 2.28 arcsecond) (L-548888)</small></p> <p><small>Image Date: 2024-05-05 08:20:20 (UTC) File Location: 2024-05-05_08:20:20 (UTC) Config:  C-11HD HyperStar V4 Altair125122 LRC LRC 20x  Exposure: 90s   1500x1500px Color: ZWO_6200MC</small></p>




# Prospective Imaging Objects – July 05 2024

<p><b>NGC6804</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Aquila</b> Coordinates: <b>19h 31' 35"</b> <b>09° 13' 33"</b></p> <p>Close Star: <b>SAO-104728</b> (Omega Aq) Catalog Objects: <a href="#">NGC-6804</a> Imaging Window: <b>10:16 – 03:43</b> Transit: <b>12:57   66°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-55</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Sagittarius</b> Coordinates: <b>19h 39' 59"</b> <b>-30° 57' 42"</b></p> <p>Close Star: <b>SAO-191524</b> (Formalhaut) Catalog Objects: <a href="#">M-55</a>/<a href="#">NGC-6809</a> Imaging Window: *<b>12:33 – 01:55</b> Transit: <b>01:06   26°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 
<p><b>Barnard's E (B-143)</b> Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Dark Nebula</b></p> <p>Constellation: <b>Aquila</b> Coordinates: <b>19h 40' 47"</b> <b>11° 01' 12"</b></p> <p>Close Star: <b>SAO-125122</b> (Altair) Catalog Objects: <a href="#">B-143</a>/<a href="#">LDN-694</a> Imaging Window: <b>10:19 – 03:43</b> Transit: <b>01:06   67°</b></p>	<p><b>C-11 HD: <b>Focal Reducer</b></b></p> 


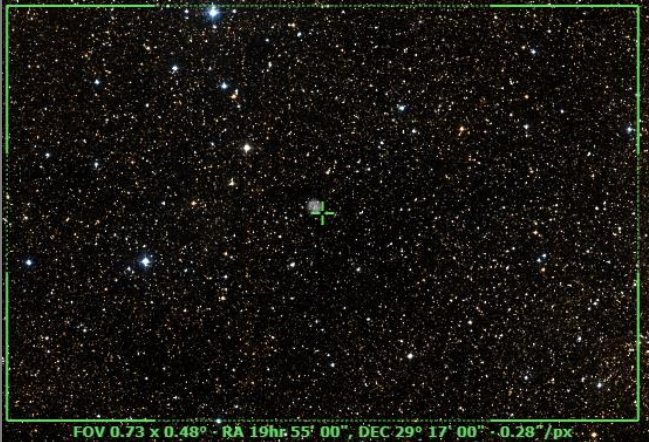
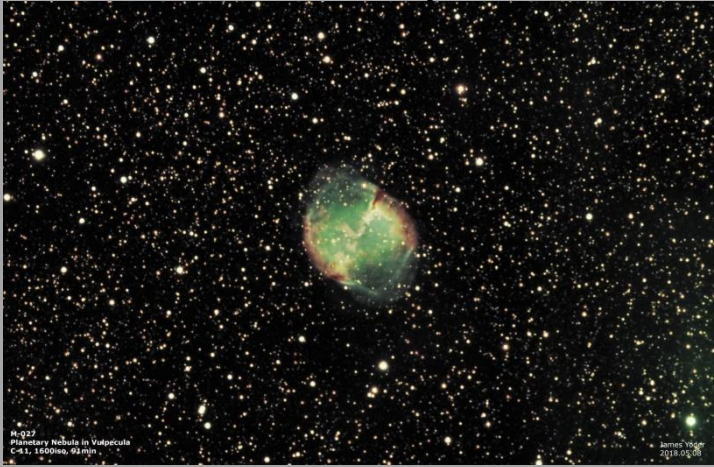
# Prospective Imaging Objects – July 05 2024

<p><b>NGC-6820</b> (LDN-772)            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Open Cluster &amp; Nebula</b></p> <p>Constellation: <b>Vulpecula</b>            Coordinates:  <b>19h 43' 37"</b>  <b>23° 19' 29"</b></p> <p>Close Star: SAO-125122 (Altair)            Catalog Objects: <a href="#">NGC-6820</a>            Imaging Window: <b>09:23 – 03:43</b>            Transit: <b>01:08   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>The Finger</b> (NGC-6820)            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Open Cluster &amp; Nebula</b></p> <p>Constellation: <b>Vulpecula</b>            Coordinates:  <b>19h 42' 56"</b>  <b>23° 18' 43"</b></p> <p>Close Star: SAO-125122 (Altair)            Catalog Objects: <a href="#">NGC-6820</a>            Imaging Window: <b>09:23 – 03:43</b>            Transit: <b>01:08   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>The Finger</b> (NGC-6820)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster &amp; Nebula</b></p> <p>Constellation: <b>Vulpecula</b>            Coordinates:  <b>19h 43' 01"</b>  <b>23° 17' 12"</b></p> <p>Close Star: SAO-125122 (Altair)            Catalog Objects: <a href="#">NGC-6820</a>            Imaging Window: <b>09:23 – 03:43</b>            Transit: <b>01:08   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – July 05 2024




<p><b>Little Gem</b> (NGC-6818) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Sagittarius</b> Coordinates: <b>19h 43' 58"</b> <b>-14° 09' 09"</b></p> <p>Close Star: <b>SAO-143021</b> (16 Aql) Catalog Objects: <a href="#">NGC-6818</a>/PK 25-17.1 Imaging Window: *<b>11:15 – 03:06</b> Transit: <b>01:10   43°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;">FOV 0.73 x 0.48° - RA 19hr 43' 58", DEC -14° 09' 09" - 0.28"/px</p>
<p><b>Blinking Planetary</b> (NGC-6826) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>19h 44' 48"</b> <b>50° 31' 32"</b></p> <p>Close Star: <b>SAO-31815</b> (13 Cyg) Catalog Objects: <a href="#">NGC-6826</a>/NGC-6826 Imaging Window: <b>09:23 – 03:43</b> Transit: <b>01:11   73°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;">FOV 0.73 x 0.48° - RA 19hr 44' 48", DEC 50° 31' 32" - 0.28"/px</p>
<p><b>Barnard's Galaxy</b> (NGC 6822) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Sagittarius</b> Coordinates: <b>19h 44' 57"</b> <b>-14° 48' 23"</b></p> <p>Close Star: <b>SAO-191524</b> (Formalhaut) Catalog Objects: <a href="#">NGC-6822</a> Imaging Window: *<b>10:43 – 03:43</b> Transit: <b>01:11   42°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;">FOV 0.73 x 0.48° - RA 19hr 44' 57", DEC -14° 48' 23" - 0.28"/px</p>

# Prospective Imaging Objects – July 05 2024

<p><b>M-71 (NGC-6838)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Sagitta</b> Coordinates: <b>19h 53' 46"</b> <b>18° 46' 43"</b></p> <p>Close Star: <b>SAO-125122 (Altair)</b> Catalog Objects: <a href="#">M-71/NGC-6838</a> Imaging Window: <b>10:12 – 03:43</b> Transit: <b>01:20   75°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC 6842 (PK 65+0.1)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Vulpecula</b> Coordinates: <b>19h 55' 00"</b> <b>29° 17' 00"</b></p> <p>Close Star: <b>SAO-68637 (12 Cyg)</b> Catalog Objects: <a href="#">NGC-6842/PK 65+0.1</a> Imaging Window: <b>09:53 – 03:43</b> Transit: <b>01:21   86°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center; font-size: small;">FOV 0.73 x 0.48° - RA 19h 55' 00", DEC 29° 17' 00" - 0.28"/px</p>
<p><b>Dumbbell Nebula (M-27, NGC-6853)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Vulpecula</b> Coordinates: <b>19h 59' 36"</b> <b>22° 43' 17"</b></p> <p>Close Star: <b>SAO-125122 (Altair)</b> Catalog Objects: <a href="#">M-27/NGC-6853</a> Imaging Window: <b>10:09 – 03:43</b> Transit: <b>01:25   79°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small; margin-top: 5px;">M-27 Planetary Nebula in Vulpecula C-11 1600iso, 90min</p> <p style="font-size: x-small; text-align: right; margin-top: 5px;">James Webb 2018 05 08</p>




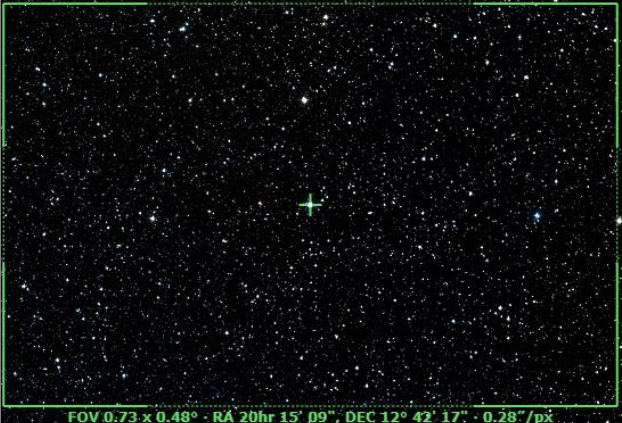

# Prospective Imaging Objects – July 05 2024

<p><b>Fish on the Platter (B-144)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Dark Nebula</b></p> <p>Constellation: <b>Cygnus</b>            Coordinates:  <b>20h 02' 28"</b>  <b>34° 57' 42"</b></p> <p>Close Star: SAO-125122 (Altair)            Catalog Objects: <a href="#">B-144</a>, SH2-101            Imaging Window: <b>09:47 – 03:43</b>            Transit: <b>01:24   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>Tulip Nebula (SH2-101)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Cygnus</b>            Coordinates:  <b>20h 00' 58"</b>  <b>35° 16' 30"</b></p> <p>Close Star: SAO-125122 (Altair)            Catalog Objects: <a href="#">SH2-101</a>            Imaging Window: <b>09:47 – 03:43</b>            Transit: <b>01:24   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Tulip Nebula (SH2-101)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Cygnus</b>            Coordinates:  <b>20h 00' 57"</b>  <b>35° 20' 11"</b></p> <p>Close Star: SAO-125122 (Altair)            Catalog Objects: <a href="#">B-144</a>            Imaging Window: <b>09:47 – 03:43</b>            Transit: <b>01:24   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – July 05 2024

<p><b>NGC-6852</b> (PK 42-14.1) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Aquila</b> Coordinates: <b>20h 00' 39"</b> <b>01° 43' 43"</b></p> <p>Close Star: <b>SAO-144150</b> (65 Aql)</p> <p>Catalog Objects: <a href="#">NGC-6852</a>/PK 42-14.1 Imaging Window: <b>11:13 – 03:43</b> Transit: <b>01:26   58°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center; font-size: small;">FOV 0.73 x 0.48° · RA 20hr 00' 39", DEC 01° 43' 43" · 0.28"/px</p>
<p><b>M-75</b> (NGC-6864) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Sagittarius</b> Coordinates: <b>20h 06' 05"</b> <b>-21° 55' 15"</b></p> <p>Close Star: <b>SAO-191524</b> (Formalhaut) Catalog Objects: <a href="#">M-75</a>/NGC-6864 Imaging Window: <b>*12:00 – 03:15</b> Transit: <b>01:32   35°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Crescent Nebula</b> (NGC-6888) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>20h 12' 06"</b> <b>38° 21' 00"</b></p> <p>Close Star: <b>SAO-125122</b> (Altair) Catalog Objects: <a href="#">NGC-6888</a>/Sh2-105 Imaging Window: <b>09:58 – 03:43</b> Transit: <b>01:38   85°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 


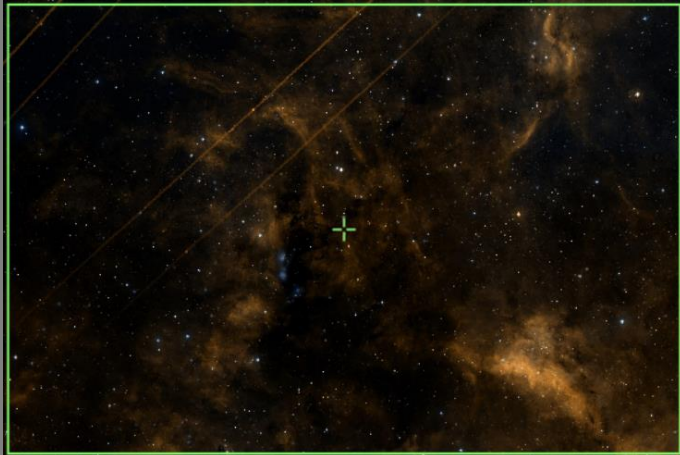
# Prospective Imaging Objects – July 05 2024

<p><b>Propeller Nebula (DWB-111)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>20h 16' 09"</b> <b>43° 41' 47"</b></p> <p>Close Ref Object: <a href="#">LDN 891</a> Close Star: <b>SAO-048796</b> (Al Fawaris) Catalog Objects: Simeis-57/DWB-111 Imaging Window: <b>09:56 – 03:43</b> Transit: <b>01:39   79°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">Propeller Nebula (DWB 111) Constellation: Cygnus the Swan</p>
<p><b>NGC 6891 (PK 54-12.1)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Delphinus</b> Coordinates: <b>20h 15' 09"</b> <b>12° 42' 17"</b></p> <p>Close Star: <b>SAO-106230</b> (2 Del) Catalog Objects: <a href="#">NGC-6991</a> Imaging Window: <b>10:49 – 03:43</b> Transit: <b>01:41   77°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small; text-align: center;">FOV 0.73 x 0.48° · RA 20hr 15' 09", DEC 12° 42' 17" · 0.28"/px</p>
<p><b>Little Ring Nebula (NGC-6894)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>20h 16' 24"</b> <b>30° 33' 57"</b></p> <p>Close Star: <b>SAO-71070</b> (64 Cyg) Catalog Objects: <a href="#">NGC-6994</a> Imaging Window: <b>10:12 – 03:43</b> Transit: <b>01:42   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small; text-align: center;">FOV 0.73 x 0.48° · RA 20hr 16' 24", DEC 30° 33' 57" · 0.28"/px</p>


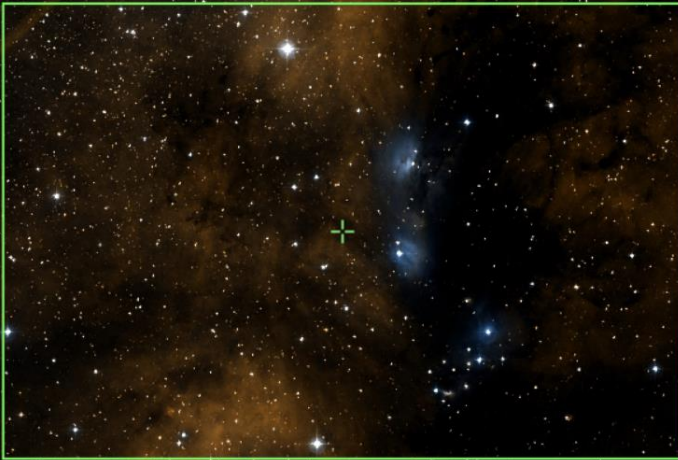
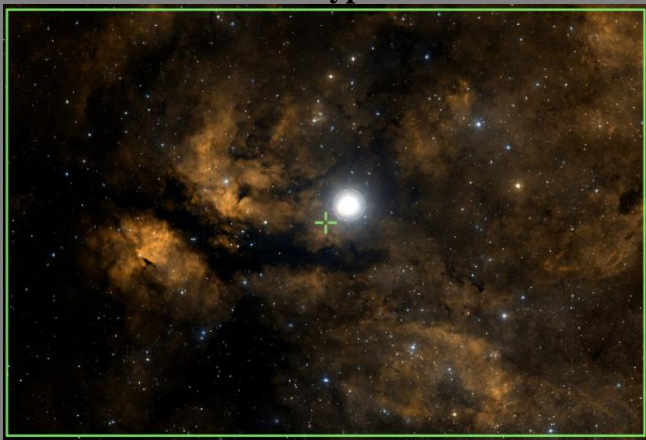
# Prospective Imaging Objects – July 05 2024

<p><b>IC-4997 (PK 58-10.1)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Sagitta</b> Coordinates: <b>20h 20' 09"</b> <b>16° 43' 56"</b></p> <p>Close Star: <b>SAO-106316</b> (Rotanev) Catalog Objects: <a href="#">IC-4997</a> Imaging Window: <b>10:43 – 03:43</b> Transit: <b>01:46   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Blue Flash Nebula (NGC-6905)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Delphinus</b> Coordinates: <b>20h 22' 24"</b> <b>20° 06' 18"</b></p> <p>Close Star: <b>SAO-108378</b> (Markab) Catalog Objects: <a href="#">NGC-6905</a> Imaging Window: <b>10:37 – 03:43</b> Transit: <b>01:48   77°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-29 (NGC-6913)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>20h 24' 06"</b> <b>38° 29' 36"</b></p> <p>Close Star: <b>SAO-90981</b> (Scheat) Catalog Objects: <a href="#">M-29/NGC-6913</a> Imaging Window: <b>10:09 – 03:43</b> Transit: <b>01:49   85°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

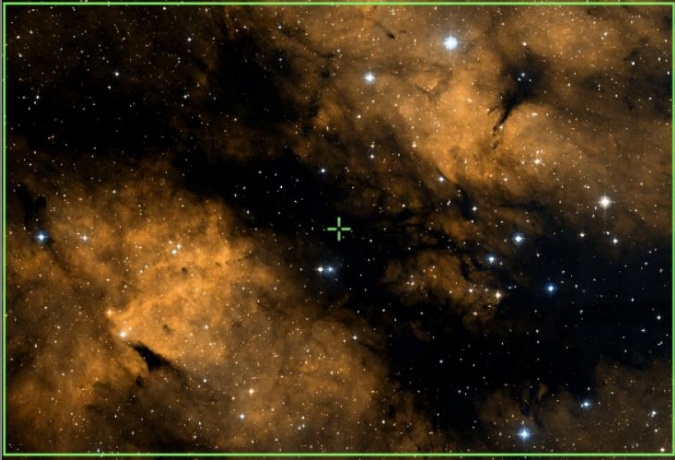


# Prospective Imaging Objects – July 05 2024

<p><b>Gamma Cygni Nebula (IC-1318 A&amp;B)</b> Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: Frame 1: RA=20hr 18' 27" DEC=41°12'10" Frame 2: RA=20hr 18' 38" DEC=38°55'33"</p> <p>Close Star: SAO-49941 (Deneb) Catalog Objects: <a href="#">IC-1318</a> Imaging Window: <b>09:59 – 03:43</b> Transit: <b>01:42   81°</b></p>	<p><b>C-11 HD: HyperStar v4</b> <b>Composite!</b></p>  <p><small>Gamma Cygni Nebula (IC-1318) Copyright © 2024 by [unreadable]</small></p>
<p><b>IC-1318A</b></p> <p>Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>20h 22' 52"</b> <b>42° 38' 53"</b></p> <p>Close Star: SAO-49941 (Deneb) Catalog Objects: <a href="#">IC-1318A</a> Imaging Window: <b>09:59 – 03:43</b> Transit: <b>01:43   81°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p> 

# Prospective Imaging Objects – July 05 2024

<p><b>IC-1318 Region-1</b> Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>20h 24' 48"</b> <b>42° 29' 00"</b></p> <p>Close Star: <b>SAO-49941</b> (Deneb) Catalog Objects: <a href="#">NGC-6914</a> Imaging Window: <b>10:07 – 03:43</b> Transit: <b>01:51   81°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>IC-1318 Region-1</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>20h 25' 07"</b> <b>42° 24' 34"</b></p> <p>Close Star: <b>SAO-49941</b> (Deneb) Catalog Objects: <a href="#">NGC-6914</a> Imaging Window: <b>10:07 – 03:43</b> Transit: <b>01:51   81°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>IC-1318B</b> Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>20h 22' 57"</b> <b>40° 09' 33"</b></p> <p>Close Star: <b>SAO-67174</b> (Vega) Catalog Objects: <a href="#">IC-1318B</a> Imaging Window: <b>10:12 – 03:43</b> Transit: <b>01:54   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 

# Prospective Imaging Objects – July 05 2024

<p><b>IC-1318B</b>            Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b>            Coordinates:  <b>20h 26' 59"</b>  <b>40° 06' 52"</b></p> <p>Close Star: <b>SAO-67174</b> (Vega)            Catalog Objects: <a href="#">IC-1318B</a>            Imaging Window: <b>10:12 – 03:43</b>            Transit: <b>01:54   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b></b></p> 
<p><b>IC-1318B</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b>            Coordinates:  <b>20h 25' 40"</b>  <b>40° 17' 34"</b></p> <p>Close Star: <b>SAO-67174</b> (Vega)            Catalog Objects: <a href="#">IC-1318B</a>            Imaging Window: <b>10:12 – 03:43</b>            Transit: <b>01:54   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p><small>Butterfly Nebula (IC-1318)            Constellation: Cygnus the Swan            RA = 20h 26m 59.5s, DEC = +40° 06' 52.0", Size = 62.3 x 28.5 arcmin, Observation: 0.13Mag E of N (Post-aid=0.441 arc/px) (F1-279mm)            Date: 2024-05-16 20:12:00, Filter: H-alpha, Gain: 100, Offset: 100</small></p>
<p><b>Fireworks Galaxy(NGC-6946)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Cepheus</b>            Coordinates:  <b>20° 34' 54"</b>  <b>60° 08' 60"</b></p> <p>Close Star: <b>SAO-19302</b> (Alderamin)            Catalog Objects: <a href="#">NGC-6946</a>            Imaging Window: <b>10:19 – 03:43</b>            Transit: <b>02:01   63°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – July 05 2024

## Pelican & N. America Nebula (IC-5070)

Config: C11-HD | HS | ZWO6200MC

Type: **Bright Nebula**

Constellation: **Cygnus**

Coordinates:

Frame 1:

RA=20hr56'10" DEC=44°55'07"

Frame 2:

RA=20hr56'10" DEC=42°37'57"

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

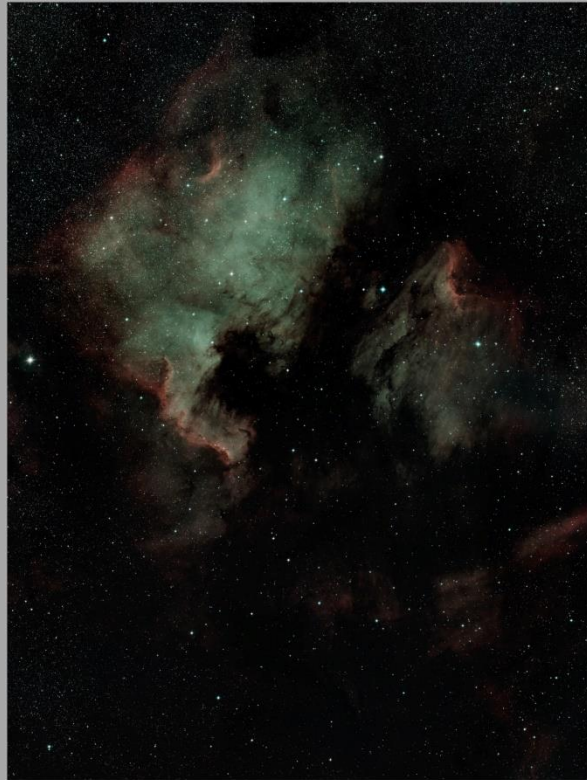
Catalog Objects: [IC5070](#)

Imaging Window: **10:32 – 03:43**

Transit: **02:17 | 79°**

## C-11 HD: HyperStar v4

**Composite!**



North America (NGC-7000) and Pelican (IC-5070) Nebula  
Constellation: Cygnus the Swan  
RA: 20h 56m 10s DEC: 44° 55' 07" Size: 200 x 270 arcsec Orientation: 0 deg E of N (True north = 1.411 arcsec) (IC-5070)

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

## Pelican & N. America Nebula (IC-5070)

Config: C11-HD | HS | ZWO6200MC

Type: **Bright Nebula**

Constellation: **Cygnus**

Coordinates:

**20h 57' 29"**

**44° 10' 10"**

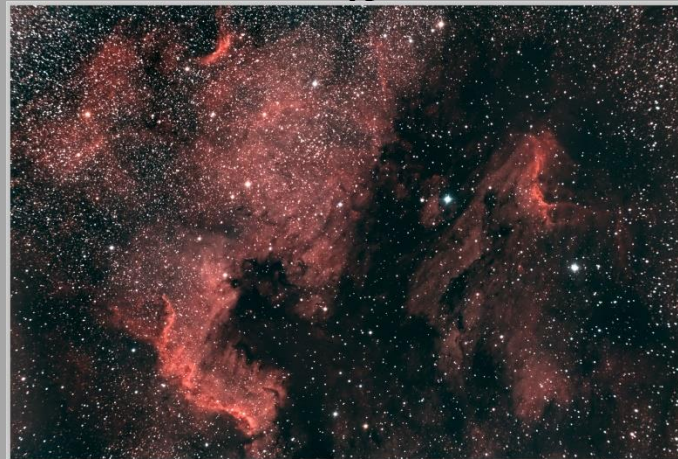
Close Star: **SAO-50180** (57 Cygni)

Catalog Objects: [IC5070](#)

Imaging Window: **10:32 – 03:43**

Transit: **02:17 | 79°**

## C-11 HD: HyperStar v4

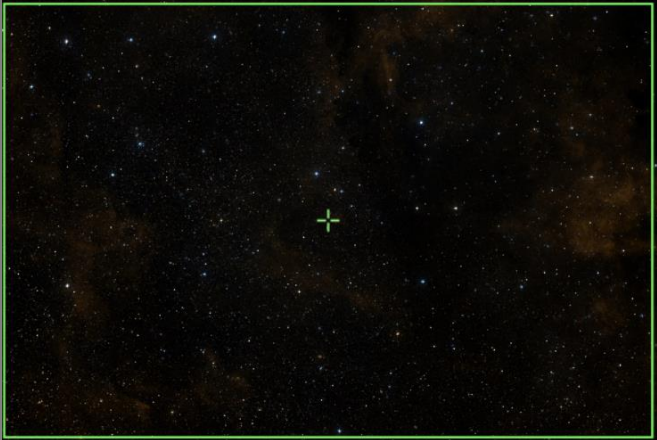
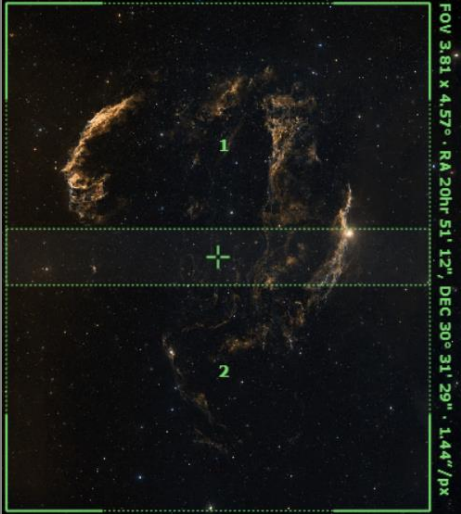
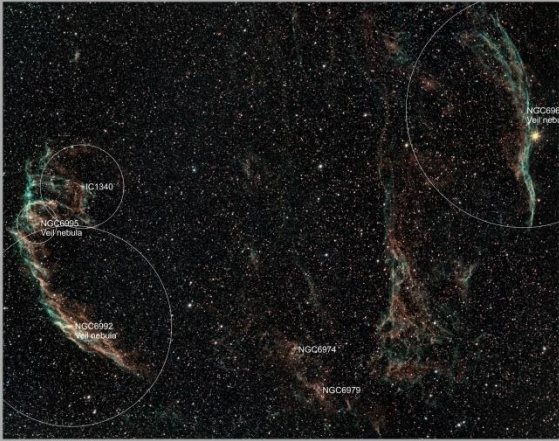


North American Nebula (NGC 7000) Pelican Nebula (IC 5070) and Open Star Cluster (NGC 6997)  
Constellation: Cygnus the Swan


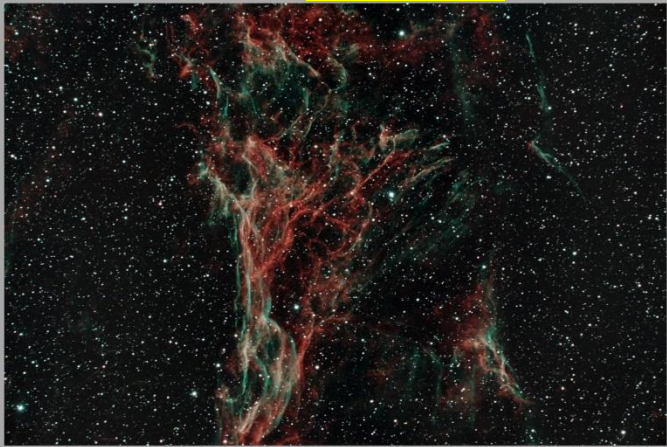

James Volder | 2019.02.20  
Config: (C11) HyperStar / Astromech C15-CCD / DSI 158L  
Exposure Info: (55Min)@5min Gain: 3200 | Offset: 180



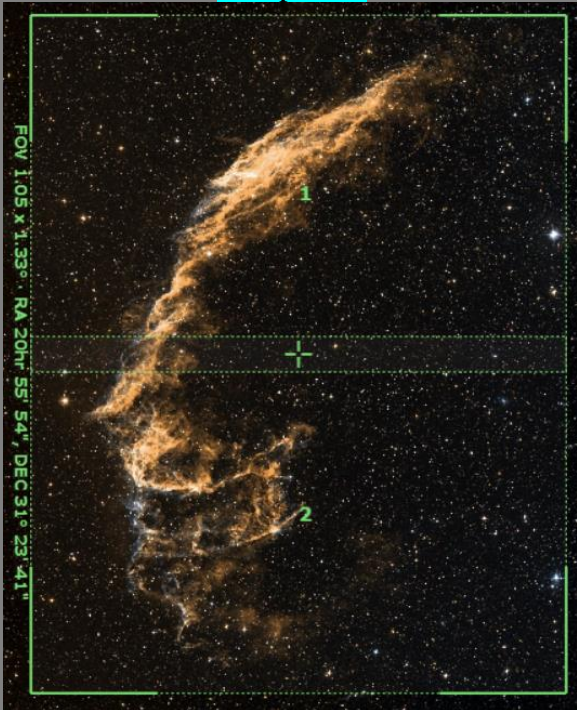

# Prospective Imaging Objects – July 05 2024

<p><b>Northern Coal Sack</b> (LDN-904)            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Dark Nebula</b></p> <p>Constellation: <b>Cygnus</b>            Coordinates:  <b>20h 51' 52"</b>  <b>39° 13' 34"</b></p> <p>Close Star: SAO-49941 (Deneb)            Catalog Objects: <a href="#">LDN-904</a>            Imaging Window: <b>10:38 – 03:43</b>            Transit: <b>02:18   84°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>Veil Nebula</b> (NGC-6960)            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b>            Coordinates:  <b>P1: RA: 20h51'12" DEC: 31°32'26"</b>  <b>P2: RA: 20h51'12" DEC: 29°30'31"</b></p> <p>Close Star: SAO-70467 (52 Cygni)            Catalog Objects: <a href="#">NGC-6960</a>, 6992, 6995            Imaging Window: <b>10:48 – 03:43</b>            Transit: <b>02:19   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b>  <b>Composite!</b></p> 
<p><b>Veil Nebula</b> (NGC-6960)            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Supernova Remnant</b></p> <p>Constellation: <b>Cygnus</b>            Coordinates:  <b>20h 51' 15"</b>  <b>31° 03' 60"</b></p> <p>Close Star: SAO-70467 (52 Cygni)            Catalog Objects: <a href="#">NGC-6960</a>, 6992, 6995            Imaging Window: <b>10:48 – 03:43</b>            Transit: <b>02:19   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Veil Nebula Complex            Constellation: Cygnus the Swan</p> <p style="font-size: x-small; text-align: right;">James Walker            Location: Chandler, AZ 85718-29            Config: C11 HyperStar Astrocam Unit, QHY12C            Exposure time: 3 Transmissions @ 1200 @ f/8.0</p>




# Prospective Imaging Objects – July 05 2024

<p><b>Witch's Broom</b> (NGC-6960) Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>P1:</b> RA=20hr 46' 20" DEC=30° 54' 54" <b>P2:</b> RA=20hr 46' 20" DEC=30° 17' 06"</p> <p>Close Star: <b>SAO-70467</b> (52 Cygni) Catalog Objects: <a href="#">NGC-6960</a></p> <p>Imaging Window: <b>10:48 – 03:43</b> Transit: <b>02:19   80°</b></p>	<p>C-11 HD: <b>Focal Reducer</b> <b>Composite!</b></p>  <p><small>Witch's Broom Nebula (NGC-6960) © 2024 Starizona Optics, Inc. All rights reserved. This image is for informational purposes only. It is not intended for medical or scientific use.</small></p>
<p><b>Pickering's Triangular Wisp</b> Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Supernova Remnant</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>20h 48' 16"</b> <b>31° 37' 17"</b></p> <p>Close Star: <b>SAO-70467</b> (52 Cygni) Catalog Objects: <a href="#">NGC-6960</a></p> <p>Imaging Window: <b>10:48 – 03:43</b> Transit: <b>02:19   80°</b></p>	<p>C-11 HD: <b>Focal Reducer</b></p>  <p><small>Pickering's Triangular Wisps (NGC-6960) © 2024 Starizona Optics, Inc. All rights reserved. This image is for informational purposes only. It is not intended for medical or scientific use.</small></p>
<p><b>M-72</b> (NGC-6981) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Aquarius</b> Coordinates: <b>20h 53' 28"</b> <b>-12° 32' 11"</b></p> <p>Close Star: <b>SAO-108378</b> (Markab) Catalog Objects: <a href="#">M-72/NGC-6981</a></p> <p>Imaging Window: <b>*12:12 – 03:43</b> Transit: <b>02:19   44°</b></p>	<p>C-11 HD: <b>Primary Focus</b></p>  <p><small>M-72 (NGC-6981) © 2024 Starizona Optics, Inc. All rights reserved. This image is for informational purposes only. It is not intended for medical or scientific use.</small></p>

# Prospective Imaging Objects – July 05 2024

<p><a href="#">Network Nebula (NGC-6992)</a> Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Supernova Remnant</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>P1:</b> RA= 20hr 55' 54" DEC= 31° 42' 35" <b>P2:</b> RA= 20hr 55' 54" DEC= 31° 04' 47"</p> <p>Close Star: <b>SAO-70474</b> (Gienah) Catalog Objects: <a href="#">NGC-6992</a> Imaging Window: <b>10:50 – 03:43</b> Transit: <b>02:22   88°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b> <b>Composite!</b></p> 
<p><a href="#">M-73 (NGC-6994)</a> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Aquarius</b> Coordinates: <b>20h 59' 00"</b> <b>-12° 37' 60"</b></p> <p>Close Star: <b>SAO-108378</b> (Markab) Catalog Objects: <a href="#">M-73/NGC-6994</a> Imaging Window: <b>*12:22 – 03:43</b> Transit: <b>02:25   44°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – July 05 2024

<p><b>Fetus Nebula (NGC-7008)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>21h 00' 33"</b> <b>54° 32' 38"</b></p> <p>Close Star: <b>SAO-49941 (Deneb)</b> Catalog Objects: <a href="#">NGC-7008</a> Imaging Window: <b>10:40 – 03:43</b> Transit: <b>02:26   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Planetary Nebula NGC-7008 Constellation: Cygnus RA = 21h 00m 33.00s DEC = 54° 32' 38.00" Size = 75.0 x 17.0 (arcsec) Observation: 5/04/24 by JY Filter used = 6377 (none) (6377nm)</p> <p style="font-size: x-small; text-align: right;">James Yoder - StarNet 2024-05-27 20:17:00 - Clouds: 0% Config:  C-11 HD: Sekia T846 ZWO6200MC  Focal Reducer: 3x (ImageScale: 0.54) (Gain: 100)</p>
<p><b>Iris Nebula (NGC 7023)</b> Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cepheus</b> Coordinates: <b>21h 01' 36"</b> <b>68° 10' 00"</b></p> <p>Close Star: <b>SAO-19302 (Alderamin)</b> Catalog Objects: <a href="#">NGC-7023</a> Imaging Window: <b>11:09 – 03:43</b> Transit: <b>02:27   55°</b></p>	<p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b></b></p> 
<p><b>Iris Nebula (NGC 7023)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cepheus</b> Coordinates: <b>21h 01' 36"</b> <b>68° 10' 00"</b></p> <p>Close Star: <b>SAO-19302 (Alderamin)</b> Catalog Objects: <a href="#">NGC-7023</a> Imaging Window: <b>11:09 – 03:43</b> Transit: <b>02:27   55°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small;">NGC-7023 Iris Nebula in Cepheus</p> <p style="font-size: x-small; text-align: right;">James Yoder 2018.05.04</p>

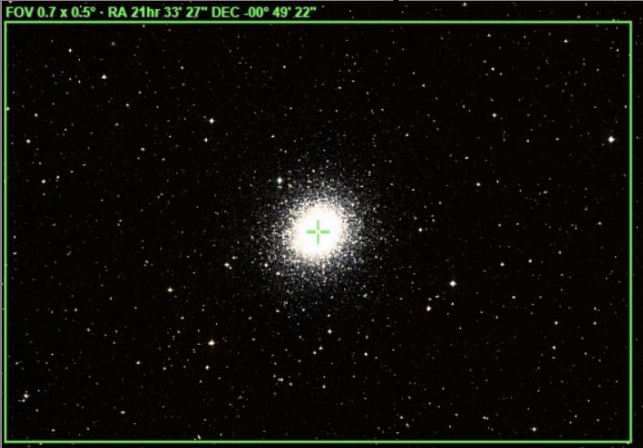


# Prospective Imaging Objects – July 05 2024

<p><b>Saturn Nebula</b> (NGC-7009) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Aquarius</b> Coordinates: <b>21h 04' 11"</b> <b>-11° 21' 47"</b></p> <p>Close Star: <b>SAO-191524</b> (Fomalhaut) Catalog Objects: <a href="#">NGC-7009</a> Imaging Window: <b>02:11 – 03:43</b> Transit: <b>02:56   45°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-7026</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>21h 06' 19"</b> <b>47° 51' 10"</b></p> <p>Close Star: <b>SAO-50456</b> Catalog Objects: <a href="#">NGC-7026</a> Imaging Window: <b>10:45 – 03:43</b> Transit: <b>02:32   45°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-7027</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>21h 07' 02"</b> <b>42° 14' 12"</b></p> <p>Close Star: <b>SAO-50456</b> Catalog Objects: <a href="#">NGC-7027</a> Imaging Window: <b>10:49 – 03:43</b> Transit: <b>02:33   45°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – July 05 2024

<p><b>NGC-7048</b> (PK 88-1.1) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>21h 14' 15"</b> <b>46° 17' 21"</b></p> <p>Close Star: <b>SAO-49941</b> (Deneb) Catalog Objects: <a href="#">NGC-7048</a> Imaging Window: <b>10:54 – 03:43</b> Transit: <b>02:40   77°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Pegasus Cluster</b> (M-15) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>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</a>/<a href="#">NGC-7078</a> Imaging Window: <b>12:05 – 03:43</b> Transit: <b>02:55   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-39</b> (NGC-7092) Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>21h 31' 56"</b> <b>48° 26' 46"</b></p> <p>Close Star: <b>SAO-49941</b> (Deneb) Catalog Objects: <a href="#">M-39</a>/<a href="#">NGC-7092</a> Imaging Window: <b>11:10 – 03:43</b> Transit: <b>02:57   75°</b></p>	<p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b></b></p> 

# Prospective Imaging Objects – July 05 2024


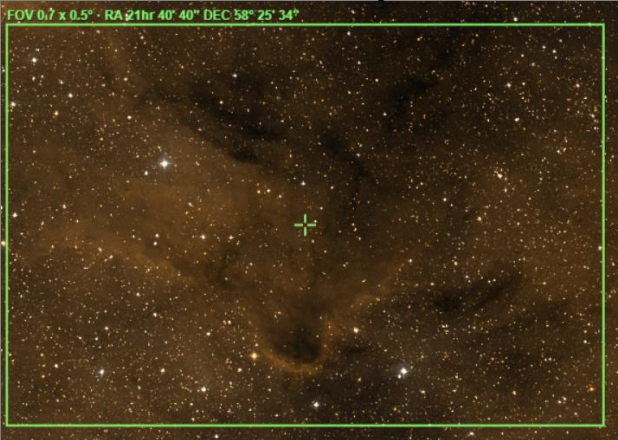

<p><b>M-2 (NGC-7089)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Aquarius</b> Coordinates: <b>21h 33' 27"</b> <b>00° 49' 22"</b></p> <p>Close Star: <b>SAO-127029</b> (Enif) Catalog Objects: <a href="#">M-2</a>/NGC-7089 Imaging Window: <b>12:58 – 03:43</b> Transit: <b>02:59   56°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-7094</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Pegasus</b> Coordinates: <b>21h 36' 53"</b> <b>12° 47' 22"</b></p> <p>Close Star: <b>SAO-127029</b> (Enif) Catalog Objects: <a href="#">NGC-7094</a> Imaging Window: <b>12:10 – 03:43</b> Transit: <b>03:02   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Elephant Trunk (IC-1396)</b> Config: <b>C11-HD   HS   ZWO6200MC</b></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>11:20 – 03:43</b> Transit: <b>03:04   66°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 

# Prospective Imaging Objects – July 05 2024




<p><b>Elephant Trunk (IC-1396)</b> Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright &amp; Dark Nebula</b></p> <p>Constellation: <b>Cepheus</b> Coordinates: <b>21h 40' 00"</b> <b>58° 03' 31"</b></p> <p>Close Star: <b>SAO-19302</b> (Alderamin) Catalog Objects: <a href="#">IC-1396</a>/Sh2-131 Imaging Window: <b>11:20 – 03:43</b> Transit: <b>03:04   66°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Elephant Trunk (IC-1396)</b> Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cepheus</b> Coordinates: <b>21h 34' 39"</b> <b>57° 29' 02"</b></p> <p>Close Star: <b>SAO-19302</b> (Alderamin) Catalog Objects: <a href="#">IC-1396</a>/Sh2-131 Imaging Window: <b>11:20 – 03:43</b> Transit: <b>03:04   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>11:20 – 03:43</b> Transit: <b>03:04   66°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 





# Prospective Imaging Objects – July 05 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 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>11:20 – 03:43</b> Transit: <b>03:04   66°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p>FOV 0.7 x 0.5° - RA 21hr 34' 44" DEC 57° 28' 44"</p>
<p><b>Elephant Trunk (IC-1396)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright &amp; Dark Nebula</b></p> <p>Constellation: <b>Cepheus</b> Coordinates: <b>21h 40' 40"</b> <b>58° 25' 34"</b></p> <p>Close Star: <b>SAO-19302</b> (Alderamin) Catalog Objects: <a href="#">IC-1396</a>/Sh2-131 Imaging Window: <b>11:20 – 03:43</b> Transit: <b>03:04   66°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p>FOV 0.7 x 0.5° - RA 21hr 40' 40" DEC 58° 25' 34"</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>*12:58 – 03:43</b> Transit: <b>03:06   34°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p>FOV 0.7 x 0.5° - RA 21hr 40' 22" DEC -23° 10' 43"</p>

# Prospective Imaging Objects – July 05 2024

<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>11:38 – 03:43</b> Transit: <b>03:12   60°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC-7139 Constellation: Cepheus James Yoder   Date: 2022-12-19   Location: Chandler, AZ   Config:  C-11 HD ZWO6200MC  RA = 21h 46m 07.2s   DEC = +63deg 47' 54.0"   Size = 18.5 x 13.9 arcmin   Orientation = 0.7deg E of N   Pixel scale = 0.277 arcsec/pixel   FL = 2000mm   Exposure Info:   27 frames @ 2min   Gain: 100   Offset: 50  </p>
<p><b>Dark Cocoon (B-168, IC 5146)</b> Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Bright &amp; Dark Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>21h 49' 08"</b> <b>47° 28' 16"</b></p> <p>Close Star: <b>SAO-5105</b> (Rho Cygni) Catalog Objects: <a href="#">B-168</a>, IC-5146 Imaging Window: <b>11:33 – 03:43</b> Transit: <b>03:19   76°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="text-align: center; font-size: small;">FOV 3.81 x 2.54° · RA 21hr 49' 08", DEC 47° 28' 16"</p>
<p><b>Cocoon Nebula (IC-5146)</b> Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Cygnus</b> Coordinates: <b>21h 52' 00"</b> <b>47° 22' 37"</b></p> <p>Close Star: <b>SAO-5105</b> (Rho Cygni) Catalog Objects: <a href="#">IC-5146</a> Imaging Window: <b>11:33 – 03:43</b> Transit: <b>03:19   76°</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 21hr 52' 00", DEC 47° 22' 37"</p>

# Prospective Imaging Objects – July 05 2024

<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: <b>SAO-5105</b> (Rho Cygni) Catalog Objects: <a href="#">IC-5146</a> Imaging Window: <b>11:33 – 03:43</b> Transit: <b>03:19   76°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p>IC-5146, Cocoon Nebula James Under 2014, J.U.</p>
<p><b>Dark Shark</b> (LDN 1235) Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Bright &amp; Dark Nebula</b></p> <p>Constellation: <b>Cepheus</b> Coordinates: <b>22h 11' 49"</b> <b>73° 12' 16"</b></p> <p>Close Star: <b>SAO-20268</b> (Iota Cephei) Catalog Objects: <a href="#">LDN-1235</a> Imaging Window: <b>01:01 – 03:43</b> Transit: <b>03:40   50°</b></p>	<p><b>C-11 HD: Focal Reducer</b></p>  <p>FOV 1.05 x 0.70° · RA 22hr 11' 49", DEC 73° 12' 16"</p>

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Page

# Prospective Imaging Objects – July 05 2024

## Imaging Summary July 05, 2024

Astronomical Dusk = 09:23

Astronomical Dawn = 03:43

### HyperStar: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Nebula	Nebula	SH2-1	*09:23-11:19	09:25	02	Scorpius: Diffuse Nebula
HyperStar	Nebula	Nebula	IC-4592	*09:23-11:40	09:39	04	Scorpius: Blue Horsehead Nebula
HyperStar	Nebula	Nebula	IC-4604	*09:23-12:07	09:52	05	Comp2! Scorpius: Ophiuchus Complex
HyperStar	Nebula	Nebula	M-8	*09:23-01:43	11:29	15	Sagittarius: Lagoon Nebula
HyperStar	Nebula	Nebula	M-16	*09:46-01:48	11:45	19	Serpens: Eagle Nebula
HyperStar	Nebula	Nebula	M-17	*10:07-01:26	11:47	20	Sagittarius: Omega Nebula
HyperStar	Nebula	Nebula	NGC-6820	09:23 – 03:43	01:08	30	Vulpecula: Open Cluster & Nebula
HyperStar	Nebula	Nebula	B-144	09:47 – 03:43	01:24	33	Cygnus: Fish on the Platter Region
HyperStar	Nebula	Nebula	IC-1318 A & B	09:59 – 03:43	01:42	37	Comp2! Cygnus: Gama Cygni Nebula
HyperStar	Nebula	Nebula	IC-1318A	09:59 – 03:43	01:43	37	Cygnus: Bright Nebula Region of Interest
HyperStar	Nebula	Nebula	IC-1318B	10:12 – 03:43	01:54	38	Cygnus: Bright Nebula Region of Interest
HyperStar	Nebula	Nebula	IC-5070	10:30 – 03:43	02:17	40	Comp2! Cygnus: Pelican & N. American Nebula
HyperStar	Nebula	Nebula	IC-5070	10:30 – 03:43	02:17	40	Cygnus: Pelican & N. American Nebula
HyperStar	Nebula	DN	LDN-904	10:38 – 03:43	02:18	41	Cygnus: Northern Coal Sack
HyperStar	Nebula	Nebula	NGC-6960	10:48 – 03:43	02:19	41	Comp2! Cygnus: Veil Nebula
HyperStar	Nebula	Nebula	NGC-6960	10:48 – 03:43	02:19	41	Cygnus: Veil Nebula
HyperStar	Nebula	Nebula	IC-1396	11:20 – 03:43	03:04	47	Cepheus: Elephant Trunk
HyperStar	Nebula	DN, BN	B-168	11:33 – 03:43	03:19	50	Cygnus: Dark Cocoon

# Prospective Imaging Objects – July 05 2024

## HyperStar: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Broad Spectrum	DN, GC	M-62 Region	*09:23-11:36	10:27	07	Ophiuchus: Globular Cluster and Dark Nebula
HyperStar	Broad Spectrum	DN	LDN-42	*09:23-12:51	10:58	10	Comp4! Ophiuchus: Dark Horse Nebula
HyperStar	Broad Spectrum	DN	LDN-1773	*09:23-12:33	10:46	10	Ophiuchus: Pipe Nebula
HyperStar	Broad Spectrum	DN	B-72	*09:23-01:04	10:50	11	Ophiuchus: Snake Nebula
HyperStar	Broad Spectrum	DN	IC-1283	*09:46-01:40	11:43	18	Comp2! Sagittarius: IC-1283 Region
HyperStar	Broad Spectrum	DN	B-138	10:31 – 02:56	12:40	27	Aquila: Barnard's Black Lizard
HyperStar	Broad Spectrum	DN	LDN-673	09:59 – 03:41	12:47	28	Aquila: Dark Nebula Area
HyperStar	Broad Spectrum	DN	LDN-772	09:23 – 03:43	12:51	28	Vulpecula: Lot Ness Monster

# Prospective Imaging Objects – July 05 2024

## Imaging Summary July 05, 2024

Astronomical Dusk = 09:23

Astronomical Dawn = 03:43

### Focal Reducer: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Nebula	Nebula	SH2-9	09:23 – 11:43	09:48	04	Scorpius: Nebula next to Antares
Focal Reducer	Nebula	Nebula	M-20	*09:23-01:43	11:29	15	Sagittarius: Trifid Nebula
Focal Reducer	Nebula	Nebula	M-8	*09:28-01:34	11:30	16	Sagittarius: Lagoon Nebula
Focal Reducer	Nebula	Nebula	IC-4685	*09:31-01:51	11:37	17	Rotation 90: Sagittarius: DN and Emission Nebula
Focal Reducer	Nebula	Nebula	IC-1274	*09:31-01:51	11:37	17	Sagittarius: Bright and Dark Nebula
Focal Reducer	Nebula	Nebula	M-16	*09:46-01:48	11:45	20	Serpens: Eagle Nebula
Focal Reducer	Nebula	Nebula	M-17	*10:07-01:26	11:47	21	Sagittarius: Omega Nebula
Focal Reducer	Nebula	Nebula	NGC-6820	09:23 – 03:43	01:08	30	Vulpecula: The Finger
Focal Reducer	Nebula	Nebula	SH2-101	09:47 – 03:43	01:24	33	Cygnus: Tulip Nebula
Focal Reducer	Nebula	Nebula	IC-1318 R1	10:07 – 03:43	01:51	38	Cygnus: IC-1318 Region of Interest
Focal Reducer	Nebula	Nebula	IC-1318B	10:12 – 03:43	01:54	39	Cygnus: IC-1318B Region of Interest
Focal Reducer	Nebula	Nebula	NGC-6960	10:48 – 03:43	02:19	42	Comp2! Cygnus: Witch's Broom
Focal Reducer	Nebula	Nebula	NGC-6960B	10:48 – 03:43	02:19	42	Cygnus: Pickering's Triangular Wisp
Focal Reducer	Nebula	Nebula	NGC-6992	10:50 – 03:43	02:22	43	Comp2! Cygnus: Network Nebula
Focal Reducer	Nebula	Nebula	IC-1396-1	11:30 – 03:43	03:04	48	Cepheus: Elephant Trunk ROI
Focal Reducer	Nebula	Nebula	IC-1396-2	11:30 – 03:43	03:04	48	Cepheus: Elephant Trunk ROI
Focal Reducer	Nebula	Nebula	IC-5146	11:33 – 03:43	03:19	50	Cygnus: Cocoon Nebula
Focal Reducer	Nebula	Nebula	LDN-1235	01:01 – 03:43	03:40	51	Cepheus: Dark Shark

# Prospective Imaging Objects – July 05 2024

## Focal Reducer: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Broad Spectrum	DN, GC	M-9	*09:23-12:58	10:45	09	Ophiuchus: Globular Cluster and Dark Nebula
Focal Reducer	Broad Spectrum	DN	LDN-1773	*09:23-12:33	10:46	11	Ophiuchus: Pipe Nebula
Focal Reducer	Broad Spectrum	DN	B-72	*09:23-01:04	10:50	11	Ophiuchus: Snake Nebula
Focal Reducer	Broad Spectrum	DN	B-75	*09:23-12:33	10:51	12	Ophiuchus: Barnard 75
Focal Reducer	Broad Spectrum	OC, DN	M-24	*09:38-01:48	11:43	19	Sagittarius: Sagittarius Star Cloud
Focal Reducer	Broad Spectrum	DN	B-143	10:19 – 03:43	01:06	29	Aquila: Barnard's E
Focal Reducer	Broad Spectrum	RN	NGC-7023	11:09 – 03:43	02:27	44	Cepheus: Iris Nebula
Focal Reducer	Broad Spectrum	OC	M-39	11:10 – 03:43	02:57	46	Cygnus: Open Cluster NGC-7092



# Prospective Imaging Objects – July 05 2024

## Imaging Summary July 05, 2024

Astronomical Dusk = 09:23

Astronomical Dawn = 03:43

### Primary Focus: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	PN	NGC-6058	09:23 – 01:19	09:31	03	Hercules: Small PN
Primary Focus	Nebula	PN	IC-4593	09:23 – 12:35	09:38	03	Hercules: White Eyed Pea
Primary Focus	Nebula	PN	Abell-39	09:23 – 01:26	09:54	05	Hercules: Perfect Planetary PK 47+42.1
Primary Focus	Nebula	PN	NGC-6210	09:23 – 01:35	10:11	06	Hercules: Small PN Turtle Nebula
Primary Focus	Nebula	PN	NGC-6309	*09:23-12:43	10:40	08	Ophiuchus: Box Nebula
Primary Focus	Nebula	PN	NGC-6359	*09:23-01:11	10:55	12	Ophiuchus: Little Ghost
Primary Focus	Nebula	PN	NGC-6445	*09:23-01:08	11:15	13	Sagittarius: Box Nebula
Primary Focus	Nebula	PN	NGC-6543	09:23 – 02:56	11:25	14	Draco: Cat's Eye Nebula
Primary Focus	Nebula	Nebula	M-20	*09:23-01:43	11:29	15	Sagittarius: Trifid Nebula
Primary Focus	Nebula	Nebula	M-8	*09:28-01:34	11:30	16	Sagittarius: Lagoon Nebula
Primary Focus	Nebula	PN	NGC-6572	09:23 – 02:18	11:38	17	Ophiuchus: Emerald Nebula
Primary Focus	Nebula	Nebula	IC-1283	*09:46-01:40	11:43	19	Sagittarius: Nebula region NGC-6589
Primary Focus	Nebula	Nebula	M-17	*10:07-01:26	11:47	21	Sagittarius: Omega Nebula
Primary Focus	Nebula	PN	NGC-6629	*09:38-01:16	11:52	22	Sagittarius: Sm Planetary Nebula
Primary Focus	Nebula	PN	IC-4776	*10:40-01:43	12:12	24	Sagittarius: Sm Planetary Nebula
Primary Focus	Nebula	PN	M-57	09:23 – 03:43	12:19	25	Lyra: Ring Nebula
Primary Focus	Nebula	PN	Abell-50	09:23 – 03:43	12:25	26	Draco: Med Planetary Nebula
Primary Focus	Nebula	PN	NGC-6751	*12:25-02:45	12:32	26	Aquila: Dandelion Puffball Nebula (Sm)
Primary Focus	Nebula	PN	NGC-6772	*10:18-03:10	12:40	26	Aquila: Med Planetary Nebula
Primary Focus	Nebula	PN	NGC-6778	10:47 – 02:48	12:44	27	Aquila: Small Planetary Nebula
Primary Focus	Nebula	PN	NGC-6781	10:12 – 03:23	12:44	28	Aquila: Med Planetary Nebula
Primary Focus	Nebula	PN	NGC-6804	10:16 - 03:43	12:57	29	Aquila: Small Planetary Nebula
Primary Focus	Nebula	Nebula	NGCC-6820	09:23 – 03:43	01:08	30	Vulpecula: The Finger
Primary Focus	Nebula	PN	NGC-6818	*11:15-03:06	01:10	31	Sagittarius: Little Gem

## Prospective Imaging Objects – July 05 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	PN	NGC-6826	09:23 – 03:43	01:11	31	Cygnus: Blinking Planetary
Primary Focus	Nebula	PN	NGC-6842	09:53 – 03:43	01:21	32	Vulpecula: Sm-Med Planetary Nebula
Primary Focus	Nebula	PN	M-27	10:09 – 03:43	01:25	32	Vulpecula: Dumbbell Nebula
Primary Focus	Nebula	Nebula	SH2-101	09:47 – 03:43	01:24	33	Cygnus: Tulip Nebula
Primary Focus	Nebula	PN	NGC-6852	11:13 – 03:43	01:26	34	Aquila: Small Planetary Nebula
Primary Focus	Nebula	Nebula	NGC-6888	09:58 – 03:43	01:38	34	Cygnus: Crescent Nebula
Primary Focus	Nebula	Nebula	DWB-111	09:56 – 03:43	01:39	35	Cygnus: Propeller Nebula
Primary Focus	Nebula	PN	NGC-6891	10:49 – 03:43	01:41	35	Delphinus: Small Planetary Nebula
Primary Focus	Nebula	PN	NGC-5894	10:12 – 03:43	01:42	35	Cygnus: Little Ring Nebula (Sm-Med)
Primary Focus	Nebula	PN	IC-4997	10:43 – 03:43	01:46	36	Sagitta: Small PN
Primary Focus	Nebula	PN	NGC-6905	10:37 – 03:43	01:48	36	Delphinus: Blue Flash Nebula
Primary Focus	Nebula	BN	IC-1318-1	10:07 – 03:43	01:51	38	Cygnus: Region of interest in IC-1318
Primary Focus	Nebula	BN	IC-1318B	10:12 – 03:43	01:54	39	Cygnus: Region of interest in IC-1318B
Primary Focus	Nebula	PN	NGC-7008	10:40 – 03:43	02:26	44	Cygnus: Fetus Nebula
Primary Focus	Nebula	PN	NGC-7009	02:11 – 03:43	02:56	45	Aquarius: Saturn Nebula
Primary Focus	Nebula	PN	NGC-7026	10:45 – 03:43	02:32	45	Cygnus: Small PN
Primary Focus	Nebula	PN	NGC-7027	10:49 – 03:43	02:33	45	Cygnus: Small PN
Primary Focus	Nebula	PN	NGC-7048	10:57 – 03:43	02:40	46	Cygnus: Med PN
Primary Focus	Nebula	PN	NGC-7094	12:10 – 03:43	03:02	47	Pegasus: Med PN
Primary Focus	Nebula	DN	IC-1396-1	11:30 – 03:43	03:04	48	Cepheus: Elephant Trunk RIO
Primary Focus	Nebula	BN	IC-1396-2	11:20 – 03:43	03:04	49	Cepheus: Elephant Trunk RIO
Primary Focus	Nebula	BN	IC-1396-3	11:20 – 03:43	03:04	49	Cepheus: Elephant Trunk RIO
Primary Focus	Nebula	PN	NGC-7139	11:38 – 03:43	03:12	50	Cepheus: Med/Lrg Planetary
Primary Focus	Nebula	BN	IC-5146	11:33 – 03:43	03:19	51	Cygnus: Cocoon Nebula

# Prospective Imaging Objects – July 05 2024

## Imaging Summary July 05, 2024

Astronomical Dusk = 09:23

Astronomical Dawn = 03:43

### Primary Focus: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxies	NGC-6027A-E	09:23 – 12:44	09:26	02	Serpens: Seyfert's Sextet
Primary Focus	Broad Spectrum	Galaxies	Abell-2151	09:23 – 12:43	09:32	02	Hercules: Hercules Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxy	Arp-188	09:23 – 01:25	09:32	03	Draco: Tadpole Galaxy
Primary Focus	Broad Spectrum	Globular	M-80	*09:23-11:58	09:43	04	Scorpius: Med Globular NGC-6093
Primary Focus	Broad Spectrum	Globular	M-4	*09:23-11:40	09:50	05	Scorpius: Large Globular Cluster NGC-6121
Primary Focus	Broad Spectrum	Globular	M-107	*09:23-12:04	09:59	06	Ophiuchus: Med Globular NGC-6171
Primary Focus	Broad Spectrum	Globular	M-13	09:23 – 01:52	10:08	06	Hercules: The Great Hercules Globular NGC-5205
Primary Focus	Broad Spectrum	Globular	M-12	09:23 – 12:15	10:13	07	Ophiuchus: Large Globular NGC-6218
Primary Focus	Broad Spectrum	Globular	M-10	09:23 – 12:12	10:23	07	Ophiuchus: Large Globular NGC-6254
Primary Focus	Broad Spectrum	Globular	M-62	*09:23-11:36	10:27	08	Ophiuchus: Large Globular NGC-6266
Primary Focus	Broad Spectrum	Globular	M-19	*09:23-12:19	10:29	08	Ophiuchus: Med Globular NGC-6273
Primary Focus	Broad Spectrum	Globular	M-92	09:23 – 02:34	10:43	09	Hercules: Med Globular NGC-6341
Primary Focus	Broad Spectrum	Globular	M-9	*09:23-12:58	10:45	09	Ophiuchus: Med Globular NGC-6333
Primary Focus	Broad Spectrum	Globular	M-14	09:23 – 12:57	11:04	12	Ophiuchus: Med Globular NGC-6402
Primary Focus	Broad Spectrum	OC	M-6	*09:23-12:51	11:06	13	Scorpius: Butterfly Cluster
Primary Focus	Broad Spectrum	DN	B-84	*09:23-01:04	11:13	13	Sagittarius: Praying Matis Nebula
Primary Focus	Broad Spectrum	OC	M-7	*10:15-12:33	11:20	14	Scorpius: Ptolemy Cluster
Primary Focus	Broad Spectrum	OC	M-23	*09:25-01:30	11:23	14	Sagittarius: Open Cluster NGC-6494
Primary Focus	Broad Spectrum	OC	M-21	*10:04-01:08	11:30	16	Sagittarius: Open Cluster NGC-6531
Primary Focus	Broad Spectrum	DN	B-93	*09:31-01:55	1:43	18	Sagittarius: Dark Nebula LDN-327
Primary Focus	Broad Spectrum	OC	M-18	*10:18-01:19	11:46	20	Sagittarius: Open Cluster NGC-66133
Primary Focus	Broad Spectrum	GC	M-28	*09:49-01:58	11:51	21	Sagittarius: Med Globular NGC-6626
Primary Focus	Broad Spectrum	OC	NGC-6633	09:23 – 02:33	11:53	22	Ophiuchus: Open Cluster NGC-6633

## Prospective Imaging Objects – July 05 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	GC	M-69	*10:15-01:37	11:57	22	Sagittarius: Med Globular NGC-6637
Primary Focus	Broad Spectrum	OC	M-25	*09:56-02:01	11:58	23	Sagittarius: Open Cluster IC-4725
Primary Focus	Broad Spectrum	GC	M-22	*09:56-02:16	11:02	23	Sagittarius: Med Globular NGC-6656
Primary Focus	Broad Spectrum	GC	M-70	*10:25-01:51	12:09	23	Sagittarius: Sm Globular NGC-6681
Primary Focus	Broad Spectrum	OC	M-26	*10:22-01:58	12:11	24	Sagittarius: Open Cluster NGC-6694
Primary Focus	Broad Spectrum	DN	B-104	*10:00-02:34	12:13	24	Scutum: Check mark
Primary Focus	Broad Spectrum	OC	M-11	*10:07-02:31	12:17	25	Scutum: Wild Duck Cluster
Primary Focus	Broad Spectrum	GC	M-54	*10:22-02:27	12:21	25	Sagittarius: Med Globular
Primary Focus	Broad Spectrum	GC	M-56	09:23 – 03:43	12:42	27	Lyra: Med Globular
Primary Focus	Broad Spectrum	GC	M-55	*12:33-01:55	01:06	29	Sagittarius: Large Globular
Primary Focus	Broad Spectrum	Galaxy	NGC-6822	*10:43-03:43	01:11	31	Sagittarius: Barnard's Galaxy (Large Galaxy)
Primary Focus	Broad Spectrum	GC	M-71	10:12 – 03:43	01:20	32	Sagitta: Med Globular
Primary Focus	Broad Spectrum	GC	M-75	*12:00-03:15	01:32	34	Sagittarius: Med Globular
Primary Focus	Broad Spectrum	OC	M-29	10:09 – 03:43	01:49	36	Cygnus: Open Cluster in Cygnus
Primary Focus	Broad Spectrum	Galaxy	NGC-6946	10:19 – 03:43	02:01	39	Cepheus: Fireworks Galaxy (Large Face On)
Primary Focus	Broad Spectrum	GC	M-72	*12:12-03:43	02:19	42	Aquarius: Medium Globular
Primary Focus	Broad Spectrum	OC	M-73	*12:22-03:43	02:25	43	Aquarius: Open Cluster NGC-6994
Primary Focus	Broad Spectrum	RN	NGC-7023	11:09 – 03:43	02:27	44	Cepheus: Iris Nebula
Primary Focus	Broad Spectrum	GC	M-15	12:05 – 03:43	02:55	46	Pegasus: Pegasus Cluster
Primary Focus	Broad Spectrum	GC	M-2	12:58 – 03:43	02:59	47	Aquarius: Large Globular
Primary Focus	Broad Spectrum	GC	M-30	*12:58-03:43	03:06	49	Capricornus: Med Globular

# Prospective Imaging Objects – July 05 2024

## Imaging Summary July 05, 2024

Astronomical Dusk = 09:23

Astronomical Dawn = 03:43

### Primary Prospects

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	HyperStar	Nebula	Nebula	SH2-1	*09:23-11:19	09:25	02	Scorpius: Blue Nebula
	HyperStar	Broadband	DN, GC	M-62 Region	*09:23-11:36	10:27	07	Ophiuchus: M-62 Region
	HyperStar	Broadband	DN	LDN-42	*09:23-12:51	10:58	10	Comp4! Ophiuchus: Dark Horse Nebula
	HyperStar	Broadband	DN	B-72	*09:23-01:04	10:50	11	Ophiuchus: Snake Nebula
	HyperStar	Broadband	DN	IC-1283	*09:46-01:40	11:43	18	Comp2! Sagittarius: DNebula NGC-6589
	HyperStar	Nebula	Nebula	M-17	*10:07-01:26	11:47	20	Sagittarius: Omega Nebula
	HyperStar	Broadband	DN	B-138	10:31 – 02:56	12:40	27	Aquila: Barnard's Black Lizard
	HyperStar	Broadband	DN	LDN-673	09:59 – 03:41	12:47	28	Aquila: Dark Nebula
	HyperStar	Nebula	Nebula	NGC-6820	09:23 – 03:43	01:08	30	Vulpecula: Nebula Region
	HyperStar	Nebula	Nebula	IC-1318A	09:59 – 03:43	01:43	37	Cygnus: Cygnus ROI
	HyperStar	Nebula	Nebula	IC-1318B	10:12 – 04:43	01:54	38	Cygnus: Cygnus ROI
	HyperStar	Nebula	DN	LDN-904	10:38 – 03:43	02:18	41	Cygnus: Northern Coal Sack
	HyperStar	Nebula	Nebula	NGC-5960	10:48 – 03:43	02:19	41	Comp2! Cygnus: Veil Nebula
	HyperStar	Nebula	BN & DN	B-168	11:33 – 03:43	03:19	50	Cygnus: Dark Cocoon
	HyperStar	Nebula						
	Focal Reducer	Nebula	Nebula	SH2-9	09:23 – 11:43	09:48	04	Scorpius: Diffuse Nebula near star
	Focal Reducer	Broadband	DN & GC	M-9	*09:23-12:58	10:45	09	Ophiuchus: Dark Nebula and Globular
	Focal Reducer	Broadband	DN	LDN-1773	*09:23-12:33	10:46	11	Ophiuchus: Pipe Nebula
	Focal Reducer	Broadband	DN	B-75	*09:23-12:33	10:51	12	Ophiuchus: Barnard 75
	Focal Reducer	Nebula	Nebula	M-20	*09:23-01:43	11:29	15	Sagittarius: Trifid Nebula
	Focal Reducer	Nebula	Nebula	M-8	*09:28-01:34	11:30	16	Sagittarius: Lagoon Nebula
	Focal Reducer	Nebula	Neb, DN	IC-4685	*09:31-01:51	11:37	17	Rot90 Sagittarius: Bright and Dark nebula
	Focal Reducer	Broadband	Broadband	M-24	*09:38-01:48	11:43	19	Sagittarius: Sagittarius Star Cloud
	Focal Reducer	Nebula	Nebula	M-16	*09:46-01:48	11:45	20	Serpens: Eagle Nebula

# Prospective Imaging Objects – July 05 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Focal Reducer	Nebula	Nebula	M-17	*10:07-01:26	11:447	21	Sagittarius: Omega Nebula
	Focal Reducer	Broadband	DN	B-143	10:19 – 03:43	01:06	29	Aquila: Barnard's E
	Focal Reducer	Nebula	Nebula	SH2-101	09:47 – 03:43	01:24	33	Cygnus: Tulip Nebula
	Focal Reducer	Nebula	Nebula	NGC-6914	10:07 – 03:43	01:51	38	Cygnus: Region 01
	Focal Reducer	Nebula	Nebula	IC-1381B	10:12 – 03:43	01:54	39	Cygnus: IC-1318B
	Focal Reducer	Nebula	Nebula	NGC-6992	10:50 – 03:43	02:22	43	Comp2! Cygnus: Network Nebula
	Focal Reducer	Nebula	RN	NGC-7023	11:09 – 03:43	02:27	44	Cepheus: Iris Nebula
	Focal Reducer	Nebula	OC	M-39	11:10 – 03:43	02:57	46	Cygnus: Open Cluster (NGC-7092)
	Focal Reducer	Nebula	Nebula	IC-1396	11:20 – 03:42	03:04	48	Cepheus: Elephant Trunk RIO1
	Focal Reducer	Nebula	Nebula	IC-1396	11:20 – 03:42	03:04	48	Cepheus: Elephant Trunk RIO2
	Focal Reducer	Nebula	BN & DN	IC-5146	11:33 – 03:43	03:19	50	Cygnus: Cocoon Nebula
	Focal Reducer	Nebula	DN	LDN-1235	01:01 – 03:43	03:40	51	Cepheus: Dark Shark
	Primary Focus	Nebula	PN	NGC-6058	09:23 – 01:19	09:31	03	Hercules: Small Planetary nebula
	Primary Focus	Broadband	GC	M-107	*09:23-12:04	09:59	06	Ophiuchus: Med Globular
	Primary Focus	Broadband	GC	M-62	*09:23-11:36	10:27	08	Ophiuchus: Large Globular
	Primary Focus	Broadband	GC	M-19	*09:23-12:19	10:29	08	Ophiuchus: Large Globular
	Primary Focus	Nebula	PN	NGC-6309	*09:23-12:43	10:40	08	Hercules: Box Nebula
	Primary Focus	Nebula	PN	NGC-6359	*09:23-01:11	10:55	12	Ophiuchus: Little Ghost
	Primary Focus	Broadband	OC	M-6	*09:23-12:51	11:06	13	Scorpius: Butterfly Cluster
	Primary Focus	Broadband	OC	M-7	*10:15-12:33	11:20	14	Scorpius: Ptolemy Cluster
	Primary Focus	Nebula	Nebula	M-8	*09:28-01:34	11:30	16	Sagittarius: Lagoon Nebula
	Primary Focus	Broadband	DN	B-93	*09:31-01:55	11:43	18	Sagittarius: Dark Nebula LDN-327
	Primary Focus	Nebula	Nebula	IC-1283	*09:46-01:40	11:43	19	Sagittarius: Diffuse Nebula NGC-6589
	Primary Focus	Broadband	GC	M-28	*09:49-01:58	11:51	21	Sagittarius: Med GC NGC-6626
	Primary Focus	Nebula	PN	NGC-6629	*09:38-01:16	11:52	22	Sagittarius: Small PN
	Primary Focus	Broadband	GC	M-69	*10:15-01:37	11:57	22	Sagittarius: Sm-Med Globular NGC-6637
	Primary Focus	Broadband	GC	M-70	*10:25-01:51	12:09	23	Sagittarius: Sm/Med Globular NGC-6681
	Primary Focus	Nebula	PN	IC-4776	*10"40-01:43	12:12	24	Sagittarius: Small PN

# Prospective Imaging Objects – July 05 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Primary Focus	Broadband	DN	B-104	*10:00-02:34	12:13	24	Scutum: Checkmark DN
	Primary Focus	Broadband	OC	M-11	*10:07-02:31	12:17	25	Scutum: Wild Duck Cluster
	Primary Focus	Nebula	PN	Abell-50	09:23 – 03:43	12:25	26	Draco: Med Planetary Nebula
	Primary Focus	Nebula	PN	NGC-6751	*12:25-02:45	12:32	26	Aquila: Small Planetary Nebula
	Primary Focus	Nebula	PN	NGC-6772	*10:18-03:18	12:40	26	Aquila: Med Planetary Nebula
	Primary Focus	Broadband	GC	M-56	09:23 – 03:43	12:42	27	Lyra: Med Globular
	Primary Focus	Nebula	PN	NGC-6781	10:12 – 03:23	12:44	28	Aquila: Med Planetary Nebula
	Primary Focus	Broadband	GC	M-55	*12:33-01:55	01:06	29	Sagittarius: Large Globular
	Primary Focus	Nebula	Nebula	NGC-6820	09:23 – 03:43	01:08	30	Vulpecula: The Finger
	Primary Focus	Nebula	PN	NGC-6826	09:23 – 03:43	01:11	31	Cygnus: Blinking Planetary
	Primary Focus	Broadband	Galaxy	NGC-6822	*10:43-03:43	01:11	31	Sagittarius: Barnard's Galaxy
	Primary Focus	Broadband	GC	M-71	10:12 – 03:43	01:20	32	Sagitta: Med Globular
	Primary Focus	Nebula	PN	NGC-6842	09:53 – 03:43	01:21	32	Vulpecula: Sm/Med Planetary Nebula
	Primary Focus	Nebula	Nebula	Sh2-101	09:47 – 03:43	01:24	33	Cygnus: Tulip Nebula
	Primary Focus	Broadband	GC	M-75	*12:00-03:15	01:32	34	Sagittarius: Med Globular
	Primary Focus	Nebula	Nebula	NGC-6888	09:58 – 03:43	01:38	34	Cygnus: Crescent Nebula
	Primary Focus	Nebula	Nebula	NGC-6894	10:12 – 03:43	01:42	35	Cygnus: Sm/Med Planetary Nebula
	Primary Focus	Nebula	Nebula	NGC-6914	10:07 – 03:43	01:51	38	Cygnus: IC-1318 Region-1
	Primary Focus	Broadband	Galaxy	NGC-6946	10:19 – 03:43	02:01	39	Cepheus: Fireworks Galaxy
	Primary Focus	Broadband	Globular	M-72	*12:12-03:43	02:19	42	Aquarius: Med Globular NGC-6981
	Primary Focus	Nebula	PN	NGC-7009	02:11 – 03:43	02:56	45	Aquarius: Saturn Nebula
	Primary Focus	Nebula	PN	NGC-7027	10:49 – 03:43	02:33	45	Cygnus: Small PN
	Primary Focus	Nebula	PN	NGC-7048	10:54 – 03:43	02:40	46	Cygnus: Sm/med PN
	Primary Focus	Broadband	Globular	M-2	12:58 – 03:43	02:59	47	Aquarius: Large GC NGC-7089
	Primary Focus	Nebula	PN	NGC-7094	12:10 – 03:43	03:02	47	Pegasus: sm/med PN
	Primary Focus	Nebula	DN	IC-1396	11:20 – 03:43	03:04	48	Cepheus: Dark Nebula
	Primary Focus	Nebula	Nebula	IC-1396	11:30 – 03:43	03:04	49	Cepheus: Elephant Trunk RIO 1
	Primary Focus	Nebula	Nebula	IC-1396	11:20 – 03:43	03:04	49	Cepheus: Elephant Trunk RIO 2

## Prospective Imaging Objects – July 05 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Primary Focus	Broadband	Globular	M-30	*12:58-03:43	03:06	49	Capricornus: Med Globular NGC-7099



# Prospective Imaging Objects – July 05 2024

## Imaging Summary July 05, 2024

Astronomical Dusk = 09:23

Astronomical Dawn = 03:43

### Imaging Plans

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