

# Prospective Imaging Objects – January 11 2024

## Astronomical Data

Sunrise	Sunset	Astronomical Dusk	Astronomical Dawn	Imaging	New Moon
07:31 am	05:39 pm	07:07 pm	06:04 am	10:57	January 11

## Hardware Info

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

## How to use this document

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

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

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

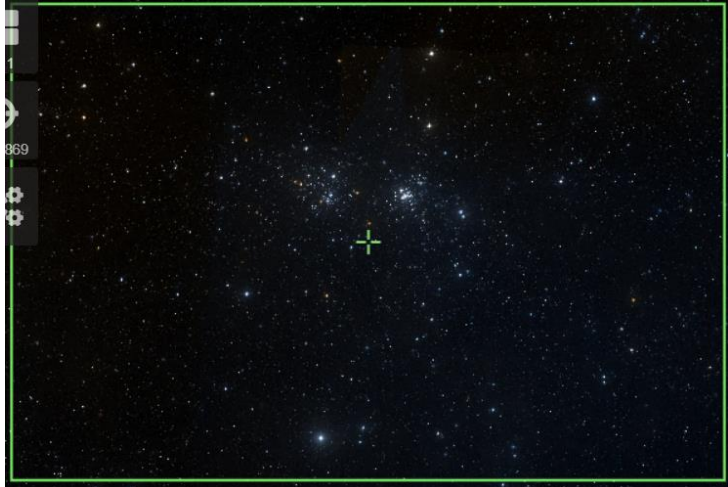


Imaging Window: \*10:44 – 02:44  
 Transit: 12:48

Primary Focus


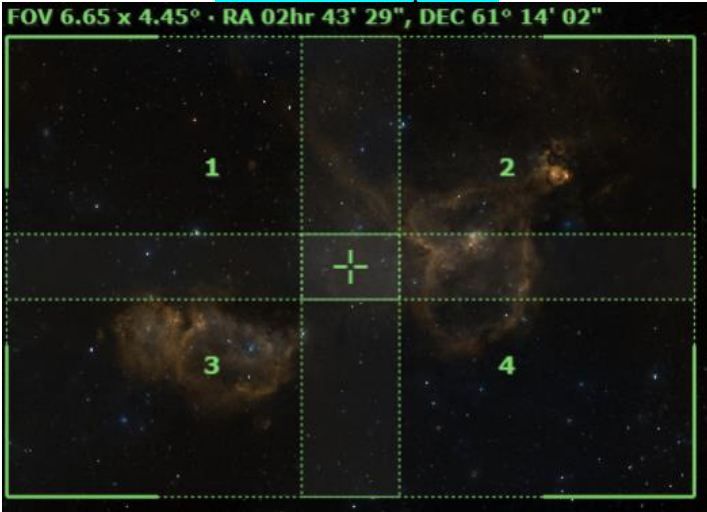

Sculptor Galaxy (NGC 253)  
 Constellation: Sculptor

- 01: Background Fill Color** - Items that I have previously images will have a fill color of grey, Images not yet imaged will have a white background color.
- 02: Object Name and catalog number** – Common name long with one of the reference catalog numbers associated with this object.
- 03: Config** – The optimal configuration to image this object, and the configuration the provided image is based on based on what hardware I own. Configuration will either be the Celestron C-11 Primary focus (with focal reducer) or C-11 with HyperStar.
- 04: Object Image** – If this is an object I have already imaged, the thumbnail is my photo. It is hyperlinked to my website, so selecting the image should open a larger image in your browser. If the object has not yet been imaged by me the image displayed is for the identified configuration as obtained from <http://www.telescopious.com>.
- 05: Close Star** – A fairly bright star close to the target that can be used to check focus and sync the telescope before the imaging session begins.
- 06: Catalog Objects** – List of objects that should appear in the field of view. When possible they are hyperlinked to <http://www.telescopious.com> where more information can be obtained.
- 07: Imaging Window** – Ideally the time the object is 45° above the horizon. Southern objects with negative DEC that do not peak above 45° are indicated with a \*. Imaging window for these objects may be based on 30° or even 25° above horizon for the imaging window.
- 08: Transit** – When the object is at the highest point in the sky for the night. For equatorial mounts this is when the meridian flip will occur.


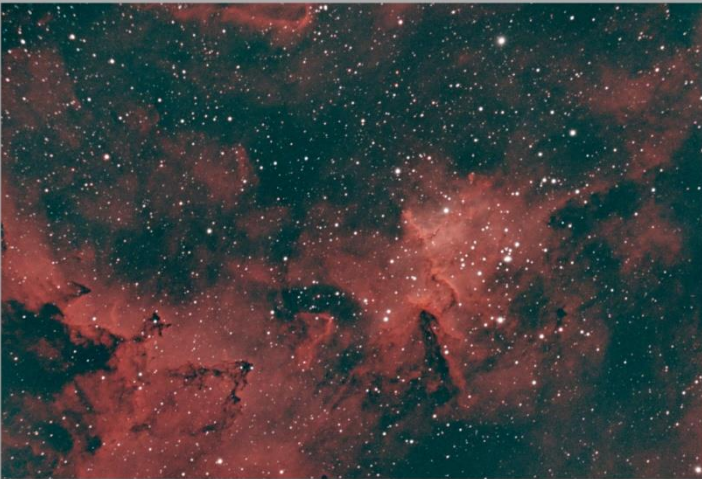

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<p><b>Hand chi Persei</b> (NGC 869, 884)            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Double Open Cluster</b>            Peak: <b>October 28</b>            Constellation: <b>Perseus</b>            Coordinates:  <b>02hr 20' 31"</b>  <b>56° 54' 05"</b></p> <p>Close Star: SAO-22258 (Ruchbah)            Catalog Objects: <a href="#">NGC 869, 884</a></p> <p>Imaging Window: <b>07:07 – 11:13</b>            Transit: <b>07:23   66°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>Edge On Galaxy</b> (NGC 891)            Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Galaxy</b>            Peak: <b>Oct 27</b>            Constellation: <b>Andromeda</b>            Coordinates:  <b>02h 23' 43.29"</b>  <b>42° 25' 46.4"</b></p> <p>Close Star: SAO-37734            Catalog Objects: <a href="#">NGC891</a></p> <p>Imaging Window: <b>07:07 – 11:13</b>            Transit: <b>07:23   81°</b></p>	<p style="text-align: center;">Primary Focus</p>  <p><small>Edge On Sprial Galaxy NGC 891</small> <span style="float: right;"><small>Janis Yodanis 2014.11.23</small></span></p>
<p><b>NGC-925</b> (PGC 9332)            Config:  C11-HD ZWO6200MC </p> <p>Type: <b>Galaxy</b>            Constellation: <b>Triangulum</b>            Coordinates:  <b>02h 27' 17"</b>  <b>33° 34' 44"</b></p> <p>Close Star: SAO-55306 (Beta Trianguli)            Catalog Objects: <a href="#">NGC925/PGC9332</a></p> <p>Imaging Window: <b>07:07 – 11:08</b>            Transit: <b>07:28   90°</b></p>	<p style="text-align: center;">Primary Focus</p>  <p><small>NGC-925 Galaxy in Triangulum</small> <span style="float: right;"><small>Janis Yodanis 2014.11.23</small></span></p>




# Prospective Imaging Objects – January 11 2024

<p><b>Fish Head Nebula (IC-1795)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Constellation: <b>Cassiopeia</b></p> <p>Coordinates:  <b>02h 27' 03"</b>  <b>62° 02' 31"</b></p> <p>Close Star: <b>SAO-38787</b> (Mirfak)            Catalog Objects: <a href="#">IC-1795</a></p> <p>Imaging Window: <b>07:07 – 11:10</b>            Transit: <b>07:26   61°</b></p>	<p>CH11-HD <b>Focal Reducer</b></p>  <p>Fish Head Nebula (IC-1795)  <small>Constellation: Cassiopeia            SAO-38787 (Mirfak) RA: 02h 27m 03s DEC: 62° 02' 31" Position: 10.000000 00.000000            Epoch: J2000.00000000            Equinox: J2000.00000000            Epoch: J2000.00000000            Equinox: J2000.00000000</small></p>
<p><b>Heart and Soul Nebulas</b>            Config: C11   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Cassiopeia</b>            Coordinates (RA, DEC):            Pane 1: <b>02hr 55' 41", 62° 09' 11"</b>            Pane 2: <b>02hr 31' 16", 62° 09' 11"</b>            Pane 3: <b>02hr 54' 58", 60° 15' 00"</b>            Pane 4: <b>02hr 31' 59", 60° 15' 00"</b></p> <p>Close Star: <b>SAO-38787</b> (Mirfak)            Catalog Objects: <a href="#">IC-1848</a></p> <p>Imaging Window: <b>07:07 – 11:39</b>            Transit: <b>07:52   63°</b></p>	<p>C-11 HD: HyperStar v4  <b>SUPER-4 Composite!</b></p> <p>FOV 6.65 x 4.45° • RA 02hr 43' 29", DEC 61° 14' 02"</p>  <p>Heart and Soul Nebulas (IC-1848)  <small>Constellation: Cassiopeia            SAO-38787 (Mirfak) RA: 02h 43m 29s DEC: 61° 14' 02" Position: 10.000000 00.000000            Epoch: J2000.00000000            Equinox: J2000.00000000</small></p>
<p><b>Heart Nebula (IC 1805)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b>            Peak: <b>October 31</b>            Constellation: <b>Cassiopeia</b>            Coordinates:  <b>02hr 31' 16"</b>  <b>61° 21' 36"</b></p> <p>Close Star: SAO-12031            Catalog Objects: <a href="#">IC 1805</a></p> <p>Imaging Window: <b>07:07 – 11:18</b>            Transit: <b>07:33   63°</b></p>	<p>C-11 HD: HyperStar v4</p>  <p>Heart Nebula (IC 1805)  <small>Constellation: Cassiopeia            SAO-12031 RA: 02h 31m 16s DEC: 61° 21' 36" Position: 10.000000 00.000000            Epoch: J2000.00000000            Equinox: J2000.00000000</small></p> <p>James Yoder - 2019.09.20            Location: Chandler, AZ            Config:  C11 HyperStar Astronomik CLS-CXD QHY128K             Exposure: 16x 200sec/Frame (Gain: 300) (Offset: 180)</p>




# Prospective Imaging Objects – January 11 2024

<p><b>Heart Nebula (IC 1805)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Constellation: <b>Cassiopeia</b>            Coordinates:  <b>02hr 26' 36"</b>  <b>62° 06' 53"</b></p> <p>Close Star: SAO-12031            Catalog Objects: <a href="#">IC 1805</a></p> <p>Imaging Window: <b>07:07 – 11:18</b>            Transit: <b>07:33   63°</b></p>	<p>CH11-HD <b>Focal Reducer</b></p>  <p>Heart Nebula core (IC-1805)  <small>Constellation: Cassiopeia            Date = 2023-10-26 00:00:00 UTC Filter = H-alpha 3.0nm Filter scale = 0.027 arc/pixel            Location: Chandler, AZ            Config:  C11-HD 0.7 Reducer  Astromaster CLS-CCD  DSAS-LPS-42  Camera: OHY128C              Exposure Info: 2000img/5min  Gain: 3200  Offset: 180</small></p>
<p><b>Heart Nebula (IC-1805)</b>            Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak: <b>October 31</b>            Constellation: <b>Cassiopeia</b>            Coordinates:  <b>02hr 32' 42"</b>  <b>61° 27' 00"</b></p> <p>Close Star: SAO-12031            Catalog Objects: <a href="#">IC 1805</a></p> <p>Imaging Window: <b>07:07 – 11:18</b>            Transit: <b>07:33   63°</b></p>	<p>Primary Focus</p>  <p>Heart Nebula Core (IC-1805)  <small>Constellation: Cassiopeia            Date = 2018-09-14            Location: Chandler, AZ            Config:  C1 Starfire LF Reducer  OPT Triad Filter  OHY128C              Exposure Info: 200img/5min  Gain: 3100  Offset: 170</small></p>
<p><b>M-77, NGC 1055</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Galaxy</b>            Peak:            Constellation: <b>Cetus</b>            Coordinates:  <b>02hr 42' 14"</b>  <b>00° 14' 28"</b>  <b>Angle: 90°</b></p> <p>Close Star: <b>SAO-110665</b>            Catalog Objects: <a href="#">M-77</a>, <a href="#">NGC-1055</a>,  <a href="#">NGC-1068</a></p> <p>Imaging Window: <b>07:07 – 09:55</b>            Transit: <b>07:42   57°</b></p>	<p>CH11-HD <b>Focal Reducer</b></p>  <p>Galaxies NGC-1055, M-77, NGC-1072  <small>Constellation: Cetus            RA = 02h 42m 26.5s DEC = +00deg 14' 13.3" Size = 55.2 x 39.3 arcmin  Orientation: -90. Mag E of N  Pixel scale = 0.579 arcsec/pixel  FL=1155mm            Date = 2023-12-26 22:25:21 Location: Chandler, AZ            Config:  C11-HD 0.7 Reducer  Filters: Baader Skyglow, CLS-CCD, IDAS-LPS-42  Camera: OHY128C              Exposure Info: 341img/5min  Gain: 3200  Offset: 180</small></p>




# Prospective Imaging Objects – January 11 2024

<p><b>NGC-1055</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b> Peak: Constellation: <b>Cetus</b> Coordinates: <b>02hr 41' 50"</b> <b>00° 29' 48"</b></p> <p>Close Star: <b>SAO-110665</b> Catalog Objects: <a href="#">NGC-1055</a></p> <p>Imaging Window: <b>07:07 – 09:55</b> Transit: <b>07:42   57°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p>A telescope image showing the galaxy NGC 1055. The galaxy is a faint, elongated, and slightly curved structure of light. It is centered in the frame, with a green crosshair marking its peak. The background is dark with many small, distant stars. The image is framed by a green border.</p>
<p><b>M 77 (NGC 1068)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b> Peak: Constellation: <b>Cetus</b> Coordinates: <b>02hr 42' 34"</b> <b>00° 02' 07"</b></p> <p>Close Star: <b>SAO-110665</b> Catalog Objects: M 77, <a href="#">NGC-1068</a></p> <p>Imaging Window: <b>07:07 – 09:54</b> Transit: <b>07:43   57°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p>A telescope image showing the galaxy M 77 (NGC 1068). The galaxy is a bright, irregularly shaped, and somewhat diffuse structure of light. It is centered in the frame, with a green crosshair marking its peak. The background is dark with many small, distant stars. The image is framed by a green border.</p>
<p><b>M-34 (NGC-1039)</b> Config:  C11-HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b> Constellation: <b>Perseus</b> Coordinates: <b>02h 42' 05"</b> <b>42° 45' 42"</b></p> <p>Close Star: <b>SAO-38592 (Algol)</b> Catalog Objects: <a href="#">M-34</a>/NGC-1039</p> <p>Imaging Window: <b>07:07 – 11:33</b> Transit: <b>07:43   81°</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p>  <p>A telescope image showing the open star cluster M-34 (NGC-1039). The cluster is a dense field of many bright, blue-white stars. It is centered in the frame, with a green crosshair marking its peak. The background is dark with many small, distant stars. The image is framed by a green border.</p>

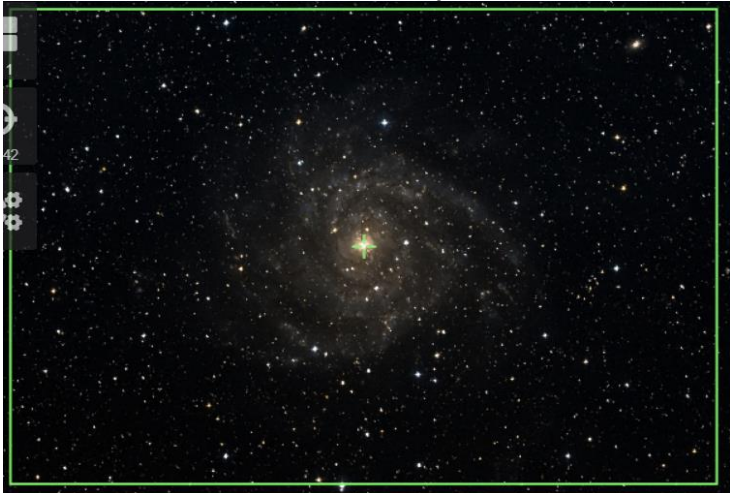


# Prospective Imaging Objects – January 11 2024

<p><b>Soul Nebula (IC-1848)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Cassiopeia</b>            Coordinates:  <b>02hr 57' 16"</b>  <b>60° 37' 37"</b></p> <p>Close Star: <b>SAO-38787 (Mirfak)</b>            Catalog Objects: <a href="#">IC 1848</a></p> <p>Imaging Window: <b>07:07 – 11:39</b>            Transit: <b>07:52   63°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Soul Nebula (IC-1848)            Constellation: Cassiopeia</p> <p style="font-size: x-small; text-align: right;">James Yule - 2019-08-20            Location: Chandler, AZ            Config: C11   HyperStar   Amonik L18C   ZWO 6200MC              Exposure Info: 260ms x 5min   Gain: 3200   Offset: 180  </p>
<p><b>Soul Nebula (IC-1848)</b>            Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Cassiopeia</b>            Coordinates:  <b>02hr 57' 16"</b>  <b>60° 37' 37"</b></p> <p>Close Star: <b>SAO-38787 (Mirfak)</b>            Catalog Objects: <a href="#">IC 1848</a></p> <p>Imaging Window: <b>07:07 – 11:39</b>            Transit: <b>07:52   63°</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p>  <p style="font-size: small;">Soul Nebula (IC-1848)            Constellation: Cassiopeia</p> <p style="font-size: x-small; text-align: right;">James Yule - 2019-12-09            Location: Chandler, AZ            Config: C11   Stratus LF   Bushe   D1643   Bushe   QHY 128C              Exposure Info: 270ms x 5min   Gain: 3200   Offset: 180  </p>
<p><b>Perseus Galaxy Cluster</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b>            Peak:            Constellation: <b>Perseus</b>            Coordinates:  <b>03hr 19' 58"</b>  <b>41° 29' 13"</b></p> <p>Close Star: <b>SAO-38592 (Algol)</b>            Catalog Objects: <a href="#">Abell-426</a>, NGC1275, 1278, 1272, Et. El.</p> <p>Imaging Window: <b>07:07 – 12:09</b>            Transit: <b>08:20   82°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – January 11 2024




<p><b>NGC-1333</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b> Peak: <b>November 13</b> Constellation: <b>Perseus</b> Coordinates: <b>03hr 29' 15"</b> <b>31° 20' 12"</b></p> <p>Close Star: <b>SAO-56799</b> Catalog Objects: <a href="#">NGC 1333</a></p> <p>Imaging Window: <b>07:07 – 12:07</b> Transit: <b>08:30   88°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p>A wide-field astronomical image showing the NGC 1333 nebula. The nebula is a complex of blue and white filaments and knots, centered in the frame. A green crosshair marks the peak. The background is dark with scattered stars. On the left side, there is a vertical control bar with icons for zoom, pan, and settings, and the number '333' is visible.</p>
<p><b>Robins Egg Nebula (NGC-1360)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b> Peak: Constellation: <b>Fornax</b> Coordinates: <b>03hr 33' 15"</b> <b>-25° 52' 16"</b></p> <p>Close Star: <b>SAO-168460</b> Catalog Objects: <a href="#">NCC-1360</a></p> <p>Imaging Window: <b>*07:07 – 10:31</b> Transit: <b>08:34   31°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p>A wide-field astronomical image showing the Robins Egg Nebula. The nebula is a bright, circular, blue-tinted ring of gas, centered in the frame. A green crosshair marks the center. The background is dark with scattered stars. At the bottom of the image, there is a white text overlay: "FOV 0.73 x 0.49° - RA 03hr 33' 15", DEC -25° 52' 16".</p>
<p><b>IC-348</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b> Peak: Constellation: <b>Perseus</b> Coordinates: <b>03hr 44' 26"</b> <b>32° 10' 54"</b></p> <p>Close Star: <b>SAO-147420</b> Catalog Objects: <a href="#">IC-348</a></p> <p>Imaging Window: <b>07:07 – 12:33</b> Transit: <b>08:45   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p>A wide-field astronomical image showing the IC-348 nebula. The nebula is a bright, circular, blue-tinted ring of gas, centered in the frame. A green crosshair marks the center. The background is dark with scattered stars. On the left side, there is a vertical control bar with icons for zoom, pan, and settings, and the number '48' is visible.</p>

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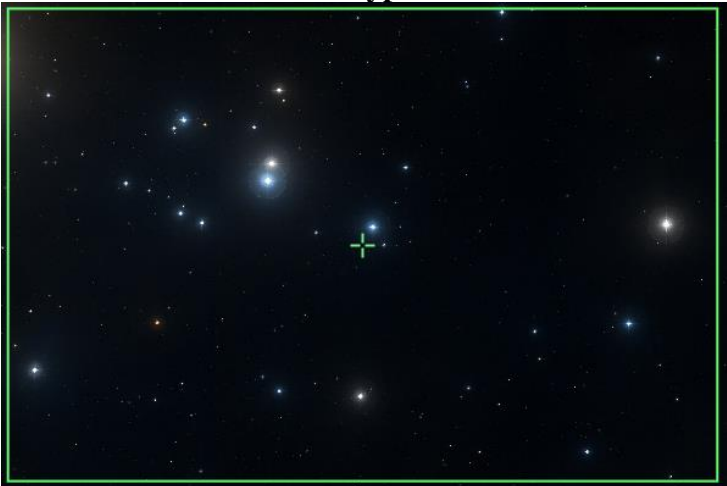
<p><b>IC-342</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b>            Peak:            Constellation: <b>Camelopardalis</b>            Coordinates:  <b>03hr 46' 48"</b>  <b>68° 05' 44"</b></p> <p>Close Star: <b>SAO-12031 (Segin)</b>            Catalog Objects: <a href="#">IC-342</a></p> <p>Imaging Window: <b>07:07 – 12:12</b>            Transit: <b>08:47   55°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Pleiades (M 45)</b>            Config: C11-HD   HS              ZWO6200MC</p> <p>Type: <b>Bright Nebula</b>            Peak: <b>November 16</b>            Constellation: <b>Taurus</b>            Coordinates:  <b>03hr 46' 07"</b>  <b>24° 11' 18"</b></p> <p>Close Star: <b>SAO-56799</b>            Catalog Objects: <a href="#">M45</a></p> <p>Imaging Window: <b>07:07 – 12:12</b>            Transit: <b>08:47   81°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">The Pleiades (M-45)            Constellation: Taurus</p> <p style="font-size: x-small; text-align: right;">James VanDerKam, 2018.10.05            Location: Mountain View, CA            Config: C11 HyperStar v4            Exposure Info: 200ms/Star (Gain: 1000) Offset: 150</p>
<p><b>Pleiades (M-45)</b>            Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak: <b>November 16</b>            Constellation: <b>Taurus</b>            Coordinates:  <b>03hr 46' 15.932"</b>  <b>24° 12' 07.154"</b></p> <p>Close Star: <b>SAO-56799</b>            Catalog Objects: <a href="#">M45</a></p> <p>Imaging Window: <b>07:07 – 12:12</b>            Transit: <b>08:47   81°</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p>  <p style="font-size: small;">The Pleiades (M-45)            Constellation: Taurus</p> <p style="font-size: x-small; text-align: right;">James VanDerKam, 2018.10.05            Location: Mountain View, CA            Config: C11 HyperStar v4            Exposure Info: 200ms/Star (Gain: 1000) Offset: 150</p>




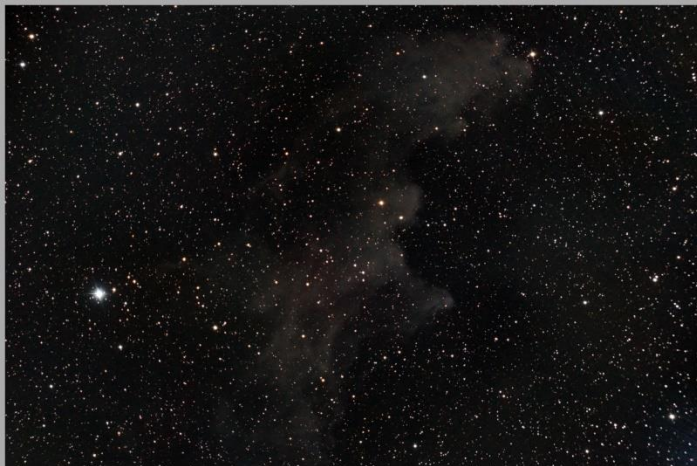

# Prospective Imaging Objects – January 11 2024

<p><b>California Nebula</b> (NGC 1499)            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b>            Peak: <b>November 22</b>            Constellation: <b>Perseus</b>            Coordinates:  <b>04hr 01' 22"</b>  <b>36° 21' 19"</b></p> <p>Close Star: SAO-56840            Catalog Objects: <a href="#">NGC 1499</a></p> <p>Imaging Window: <b>07:07 – 12:48</b>            Transit: <b>09:04   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">California Nebula (NGC-1499)            Constellation: Perseus</p> <p style="font-size: x-small; text-align: right;">James Voder   2015.08.31            Location: Chandler, AZ            Config: C11   HyperStar   Astronomik U.S.A.-C11   C11-120            Exposure Info: 220img/5min   Gain: 3200   Offset: 180</p>
<p><b>Oyster Nebula</b> (NGC 1501)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Constellation: <b>Camelopardalis</b>            Coordinates:  <b>04hr 06' 58"</b>  <b>60° 55' 3.5"</b></p> <p>Close Star: SAO-038787 (Mirfak)            Catalog Objects: <a href="#">NGC-1501</a></p> <p>Imaging Window: <b>07:07 – 12:53</b>            Transit: <b>09:07   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC-1501 (Oyster Nebula)            Constellation: Camelopardalis</p> <p style="font-size: x-small; text-align: right;">James Voder   Datto 2021.12.19   Location: Chandler, AZ            Config: C-11 HD   FPI   Triad Radon Ultra   ZWO 6200MC            Exposure Info: 67   Gain: 2000   Gain: 100   Offset: 50            RA = 04h 06m 58.2s DEC = +60deg 55' 03.5" Size = 18.5 x 13.9 arcmin   Orientation: -0.5deg E of N   Pixel scale = 0.277 arcsec/pixel   F1 = 2000mm</p>
<p><b>Crystal Ball Nebula</b> (NGC 1514)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Constellation: <b>Taurus</b>            Coordinates:  <b>04hr 09' 17"</b>  <b>30° 46' 35"</b></p> <p>Close Star: SAO-56799            Catalog Objects: <a href="#">NGC-1514</a></p> <p>Imaging Window: <b>07:07 – 12:46</b>            Transit: <b>09:10   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC-1514 (Crystal Ball Nebula)            Constellation: Taurus</p> <p style="font-size: x-small; text-align: right;">James Voder   Datto 2020.12.09   Location: Chandler, AZ            Config: C-11 HD   FPI   Triad Ultra   ZWO6200MC            Exposure Info: 44   Gain: 2000   Gain: 100   Offset: 50            RA = 04h 09m 17.6s DEC = +30deg 46' 35.0" Size = 18.5 x 13.9 arcmin   Orientation: 0.5deg E of N   Pixel scale = 0.277 arcsec/pixel   F1 = 2000mm</p>




# Prospective Imaging Objects – January 11 2024

<p><b>Cleopatra's Eye (NGC 1535)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Constellation: <b>Eridanus</b>            Coordinates:  <b>04hr 14' 16"</b>  <b>-12° 44' 20"</b></p> <p>Close Star: <b>SAO-131907</b> (Rigel)            Catalog Objects: <a href="#">NGC-1535</a></p> <p>Imaging Window: *<b>07:13 – 11:21</b>            Transit: <b>09:15   44°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">Planetary Nebula NGC-1535 (Cleopatra's Eye)  <small>January 10th 2024 00:00:00 UTC (GMT+00:00) Location: Chatham, NJ            Constellation: Eridanus            Coordinates: RA: 04h 14m 16s DEC: -12d 44m 20s Size: 22.0 x 15.0 Distance: 0.0 kly (1.0 kly) Field Scale: 0.778 arcsec/pixel (1.0 = 2000mas)</small></p>
<p><b>Hind's Variable Nebula (NGC 1555)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Constellation: <b>Taurus</b>            Coordinates:  <b>04hr 21' 54"</b>  <b>19° 32' 00"</b></p> <p>Close Star: <b>SAO-94027</b> (Aldebaran)            Catalog Objects: <a href="#">NGC-1555</a></p> <p>Imaging Window: <b>07:07 – 12:38</b>            Transit: <b>09:22   76°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> <p style="text-align: center; color: green; font-size: small;">FOV 0.73 x 0.48° · RA 04hr 21' 54", DEC 19° 32' 00"</p> 
<p><b>Hyades (C 41, Mel 25)</b>            Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Open Cluster</b>            Constellation: <b>Taurus</b>            Coordinates:  <b>04hr 26' 34"</b>  <b>15° 31' 39"</b></p> <p>Close Star: SAO-56840            Catalog Objects: <a href="#">Mel 25</a></p> <p>Imaging Window: <b>07:07 – 12:40</b>            Transit: <b>09:30   73°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 




# Prospective Imaging Objects – January 11 2024

<p><b>Trifid of the North (NGC 1579)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Perseus</b>            Coordinates:  <b>04hr 30' 12"</b>  <b>35° 16' 60"</b></p> <p>Close Star: SAO-56799            Catalog Objects: <a href="#">NGC-1579</a></p> <p>Imaging Window: <b>07:07 – 01:13</b>            Transit: <b>09:30   88°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Witch Head Nebula (IC 2118)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Eridanus</b>            Coordinates:  <b>05hr 05' 19.872"</b>  <b>-06° 56' 00.365"</b></p> <p>Close Star: SAO-131794            Catalog Objects: <a href="#">IC 2118</a></p> <p>Imaging Window: <b>*07:35 – 12:38</b>            Transit: <b>10:02   49°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small; text-align: center;">             Witch Head Nebula (IC-2118)              Constellation: Eridanus                RA = 05h 05m 19.872s DEC = -06deg 56' 00.365"   Size = 2.66 x 1.78 deg   Pixel scale = 2.27 arcsecond    <span style="float: right;">James Yoder 2019.09.25              Location: Chandler, AZ              Config:   C11   HyperStar   Baader Skyglow   CDDV 126s                Exposure Info: [54frames@90s   Gain: 3200   Offset: 180]</span> </p>
<p><b>Witch Head Nebula (IC 2118)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Eridanus</b>            Coordinates:  <b>05hr 07' 07"</b>  <b>-06° 20' 07"</b></p> <p>Close Star: SAO-131794            Catalog Objects: <a href="#">IC 2118</a></p> <p>Imaging Window: <b>*07:35 – 12:38</b>            Transit: <b>10:02   49°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – January 11 2024

<p><b>Foxface Nebula</b> (NGC 1788)          Config:  C11 HS ZWO6200MCc           Type: <b>Bright Nebula</b>          Peak:          Constellation: <b>Orion</b>          Coordinates:  <b>05hr 06' 10"</b>  <b>-04° 04' 26"</b></p> <p>Close Star: SAO-131794          Catalog Objects: <a href="#">NGC 1788</a></p> <p>Imaging Window: <b>08:20 – 12:00</b>          Transit: <b>10:07   53°</b></p>	<p style="text-align: center;"><b>Hyperstar</b></p> 
<p><b>Foxface Nebula</b> (NGC 1788)          Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>          Peak:          Constellation: <b>Orion</b>          Coordinates:  <b>05hr 05' 52"</b>  <b>-03° 22' 22"</b></p> <p>Close Star: SAO-131794          Catalog Objects: <a href="#">NGC 1788</a></p> <p>Imaging Window: <b>08:20 – 12:00</b>          Transit: <b>10:07   53°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Foxface Nebula</b> (NGC 1788)          Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>          Peak:          Constellation: <b>Orion</b>          Coordinates:  <b>05hr 06' 26"</b>  <b>-03° 20' 13"</b></p> <p>Close Star: SAO-131794          Catalog Objects: <a href="#">NGC 1788</a></p> <p>Imaging Window: <b>08:20 – 12:00</b>          Transit: <b>10:07   53°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – January 11 2024

<p><b>Flaming Star Nebula (IC-405)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 19' 38"</b>  <b>33° 49' 10"</b></p> <p>Close Star: SAO-77168 (Elnath)            Catalog Objects: <a href="#">IC 405</a>, <a href="#">IC 410</a></p> <p>Imaging Window: <b>07:07 – 01:59</b>            Transit: <b>10:18   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Flaming Star Nebula (IC-405, IC-410, IC-417)            Constellation: Auriga            Config: C-11HD HyperStar v4, Apm200M C-11 CCD, 100% DS            RA = 05h 19m 35.62s DEC = +33deg 49' 17.22" Size = 1.84 x 2.58 deg. Field scale = 2.20 arc/pixel            Exposure: 60s @ 7000000 Gain: 1200 (Offset: 100)</p>
<p><b>Flaming Star Nebula (IC 405)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 15' 55"</b>  <b>34° 29' 08"</b></p> <p>Close Star: SAO-77168 (Elnath)            Catalog Objects: <a href="#">IC 405</a></p> <p>Imaging Window: <b>07:07 – 01:59</b>            Transit: <b>10:18   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small;">Flaming Star Nebula (IC-405)            Constellation: Auriga            Config: C-11-HD (8.7 Reducer) Filter: OpenStar L-0-Cassini / Canon CRF128C            RA = 05h 15m 55.7s DEC = +34deg 29' 08.17" Size = 0.8 x 1.7 arcmin (Obsession: Obj 5 of 9) Field scale = 0.629 arc/pixel (11-100)mm            Exposure: 60s @ 7000000 Gain: 1200 (Offset: 100)</p>
<p><b>Flaming Star Nebula (IC 405)</b>            Config:  C11-HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 16' 37"</b>  <b>34° 23' 47"</b></p> <p>Close Star: SAO-77168 (Elnath)            Catalog Objects: <a href="#">IC 405</a></p> <p>Imaging Window: <b>07:07 – 01:59</b>            Transit: <b>10:18   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 



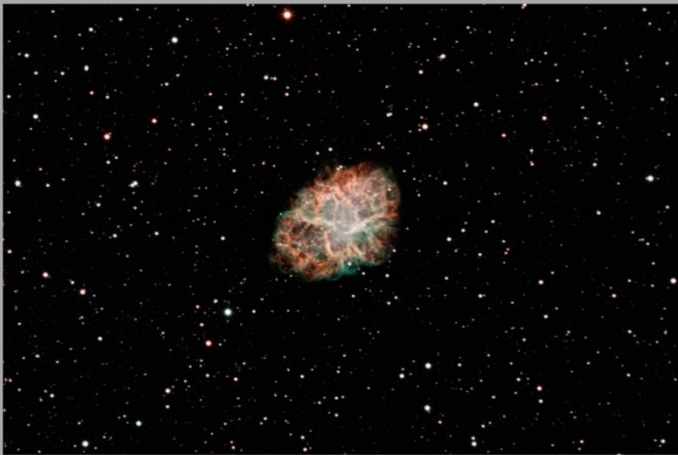
# Prospective Imaging Objects – January 11 2024

<p><b>Tadpoles (IC 410)</b>            Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 22' 54"</b>  <b>33° 23' 31"</b></p> <p>Close Star: SAO-77168 (Elnath)            Catalog Objects: <a href="#">IC 410</a></p> <p>Imaging Window: <b>07:07 – 02:03</b>            Transit: <b>10:22   90°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small;">Tadpole Nebula (IC-410)  <small>Constellation: Auriga            RA: 05h 22m 54.00s, DEC: +33deg 23' 31.00" - 13 May 27 22:48" Size: 18.5 x 18.8 arcmin, Orientation: Mag 5.0 of N, Pixel scale: 0.63 arcsec/pixel, F5-1000nm            Image Size: (Data) 2023 01 01 Location: Chandler, AZ            Config: C11-HD 16" Focuser 1.6x Barlow 1.6x Optolong L-Extreme Camera (01/12/23)            Exposure Info: 01/04/2023 Gain: 23001 Offset: 100</small></p>
<p><b>Tadpoles (IC 410)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 22' 37"</b>  <b>33° 23' 03"</b></p> <p>Close Star: SAO-77168 (Elnath)            Catalog Objects: <a href="#">IC 410</a></p> <p>Imaging Window: <b>07:07 – 02:03</b>            Transit: <b>10:22   90°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Tadpole Nebula (IC-410)  <small>Constellation: Auriga            RA: 05h 22m 37.00s, DEC: +33deg 23' 03.00" - 13 May 27 00:18" Size: 42.4 x 28.6 arcmin, Pixel scale: 0.442 arcsec/pixel            Image Size: (Data) 2023 01 01 Location: Chandler, AZ            Config: C11 HD Astrocam 12.5 x 6.25" (01/12/23)            Exposure Info: 20230104 Gain: 23001 Offset: 100</small></p>
<p><b>M-79 (NGC-1904)</b>            Config:  C11HD <b>Barlow x2</b> ZWO6200MC </p> <p>Type: <b>Globular Cluster</b>            Peak:            Constellation: <b>Lepus</b>            Coordinates:  <b>05hr 24' 11"</b>  <b>-24° 31' 25"</b></p> <p>Close Star: SAO-170457            Catalog Objects: <a href="#">M 79</a></p> <p>Imaging Window: <b>*08:19 – 12:33</b>            Transit: <b>10:24   32°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus *x2</b></p> 

# Prospective Imaging Objects – January 11 2024

<p><b>Spirograph Nebula (IC 418)</b> Config:  C11HD <b>Barlow x2</b> ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b> Constellation: <b>Lepus</b> Coordinates: <b>05hr 27' 28"</b> <b>-12° 41' 48"</b></p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: <a href="#">IC 418</a></p> <p>Imaging Window: *<b>08:24 – 12:38</b> Transit: <b>10:28   44°</b></p>	<p><b>C-11 HD: Primary Focus *x2</b></p> 
<p><b>The Spider and the Fly (M-77, NGC-1055, NGC-1931)</b> Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b> Peak: Constellation: <b>Auriga</b></p> <p><b>Camera Rotation - 90°</b> Frame 01 RA: <b>05hr 30' 44"</b>DEC: <b>34° 20' 41"</b> Frame 02 RA: <b>05hr 27' 55"</b>DEC: <b>34° 20' 41"</b></p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: <a href="#">IC-417</a>, <a href="#">NGC-1931</a></p> <p>Imaging Window: <b>07:07 – 02:10</b> Transit: <b>10:28   89°</b></p>	<p><b>C-11 HD: Focal Reducer Composite!</b></p>  <p><small>The Spider and the Fly (IC-417 &amp; NGC-1931) Credits: James VanDerKam (2004) 2018 12 26, 21, 22 Location: Chandler, AZ Config: C-11 HD   F-Reducer   Filter: Optolong   Software: Cascade LIVE! OSC Exposure Info: Pac002_20180925_0000_0000_0000_0000_0000_0000</small></p>
<p><b>The Spider (IC 417)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b> Peak: Constellation: <b>Auriga</b> Coordinates: <b>05hr 28' 03"</b> <b>34° 22' 58"</b></p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: <a href="#">IC 417</a></p> <p>Imaging Window: <b>07:07 – 02:10</b> Transit: <b>10:28   89°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – January 11 2024

<p><b>Starfish Cluster (M-38)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b>            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 28' 43"</b>  <b>35° 51' 18"</b></p> <p>Close Star: <b>SAO-77168</b> (Elnath)            Catalog Objects: <a href="#">M-38</a></p> <p>Imaging Window: <b>07:07 – 02:12</b>            Transit: <b>10:29   88°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">M-038 Starfish Cluster</p> <p style="text-align: right; font-size: small;">James Voder 2019.09.30</p>
<p><b>The Fly (NGC 1931)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 31' 24"</b>  <b>34° 15' 00"</b></p> <p>Close Star: SAO-77168 (Elnath)            Catalog Objects: <a href="#">NGC 1931</a></p> <p>Imaging Window: <b>07:07 – 02:13</b>            Transit: <b>10:31   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">931</p>
<p><b>Crab Nebula (M 1)</b>            Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Peak:            Constellation: <b>Taurus</b>            Coordinates:  <b>05hr 34' 30"</b>  <b>22° 00' 59.9"</b></p> <p>Close Star: SAO-77336            Catalog Objects: <a href="#">M 1</a></p> <p>Imaging Window: <b>07:19 – 01:56</b>            Transit: <b>10:35   79°</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p>  <p style="font-size: x-small;">Crab Nebula (Messier-1)</p> <p style="font-size: x-small;">James Voder   Date(s) 2022.02.05, 07.08, 09.10   Location: Chandler, AZ            Config:  C-11 HD Filter: OIII-Radiant Ultra   OIII128c              Constellation: Taurus            [RA = 5h 34m 31.3s   DEC = +22deg 00' 34.4"   Size = 31.5 x 21.0 arcmin   Orientation: -0.34deg   Pixel scale = 0.447 arcsec/pixel   FL = 2756mm              Exposure Info: (750msx24min)   Gain: 3200   Offset: 180</p>



# Prospective Imaging Objects – January 11 2024

## The Orion Complex

Config: C11 | HS | ZWO6200MC

Type: **Diffuse Nebula**

Peak:

Constellation: **Orion**

Coordinates:

Frame 01

RA: 05hr 43' 42" DEC: -01° 01' 06"

Frame 02

RA: 05hr 31' 05" DEC: -01° 01' 06"

Frame 03

RA: 05hr 43' 42" DEC: -03° 07' 35"

Frame 04

RA: 05hr 31' 04" DEC: -03° 07' 35"

Frame 05

RA: 05hr 43' 43" DEC: -05° 14' 05"

Frame 06

RA: 05hr 31' 04" DEC: -05° 14' 05"

Close Star: SAO-132542 (Saiph)

Catalog Objects: [M-42](#)

Imaging Window: 09:02 – 12:15

Transit: 10:35 | 52°

C-11 HD: HyperStar v4

**SUPER-6 Composite!**



## The Orion Nebula (M 42)

Config: C11-HD | HS | ZWO6200MC

Type: **Diffuse Nebula**

Peak:

Constellation: **Orion**

Coordinates:

05hr 35' 46"

-05° 15' 34"

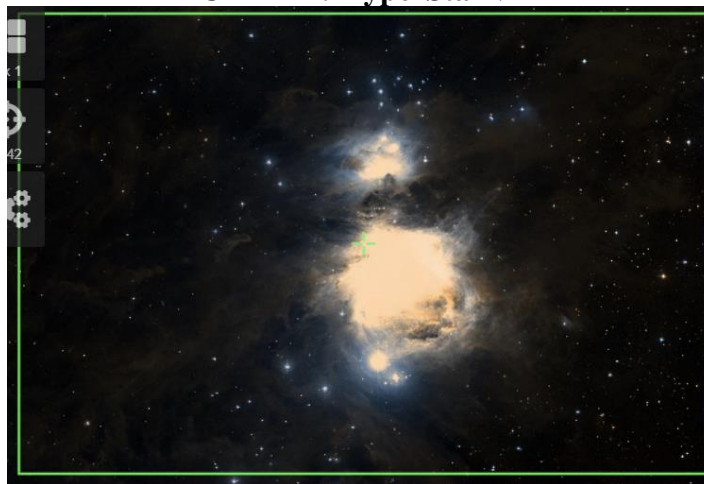
Close Star: SAO-132542 (Saiph)

Catalog Objects: [M 42](#)




Imaging Window: 09:02 – 12:15

Transit: 10:35 | 52°


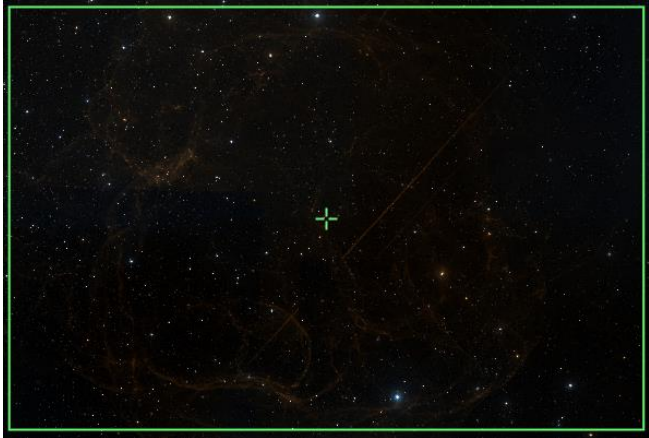
C-11 HD: HyperStar v4






# Prospective Imaging Objects – January 11 2024

<p><b>The Orion Nebula (M 42)</b>            Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 35' 09"</b>  <b>-05° 24' 32"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">M 42</a></p> <p>Imaging Window: <b>09:02 – 12:15</b>            Transit: <b>10:35   52°</b></p>	<p style="text-align: center;">Primary Focus</p>  <p style="font-size: small;">Orion Nebula (M-42)            Constellation: Orion</p> <p style="font-size: x-small; text-align: right;">Image Date: 2023-12-11            Location: Chandler, AZ            Config:  C1 Starizona LE Reducer ZWO6200MC GOTO 126            Exposure Info: 25frames/30min Gain: 3200 / Offset: 180</p>
<p><b>Running Man Nebula (NGC 1977)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 35' 16"</b>  <b>-04° 41' 47"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">NGC 1977</a></p> <p>Imaging Window: <b>08:58 – 12:19</b>            Transit: <b>10:35   52°</b></p>	<p style="text-align: center;">C-11 HD: <b>Focal Reducer</b></p> 
<p><b>Pinwheel Cluster (M-36)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b>            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 36' 18"</b>  <b>34° 08' 27"</b></p> <p>Close Star: <b>SAO-77168</b> (Elnath)            Catalog Objects: <a href="#">M-36</a>/NGC-1960</p> <p>Imaging Window: <b>07:07 – 02:18</b>            Transit: <b>10:36   89°</b></p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: x-small;">Pinwheel Cluster (M-36, NGC-1960)            Constellation: Auriga</p> <p style="font-size: x-small; text-align: right;">Image Date: 2023-12-11            Location: Chandler, AZ            Config:  C11HD ZWO6200MC GOTO 126            Exposure Info: 25frames/30min Gain: 3200 / Offset: 180</p>



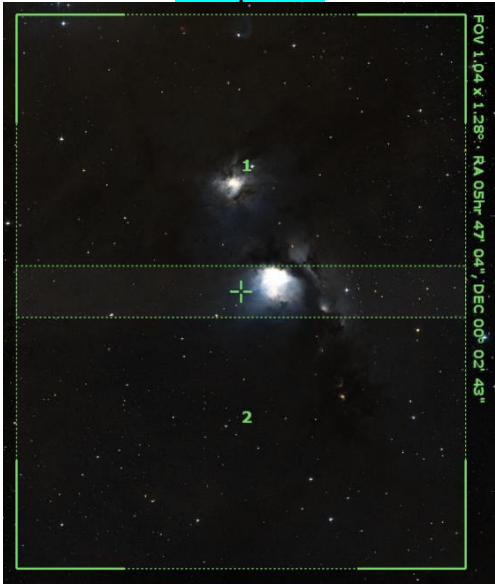
# Prospective Imaging Objects – January 11 2024

<p><b>Simeis 147</b> (SH2-240) Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Diffuse Nebula</b> Constellation: <b>Taurus</b></p> <p><b>Camera Rotation - 90°</b> Coordinates: Frame 01 RA: <b>05hr 45' 38"</b> DEC: <b>27° 56' 31"</b> Frame 02 RA: <b>05hr 36' 28"</b> DEC: <b>27° 56' 31"</b></p> <p>Close Star: <b>SAO-77168</b> (Elnath) Catalog Objects: <a href="#">SH2-240</a></p> <p>Imaging Window: <b>07:15 – 02:14</b> Transit: <b>10:41   85°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b> <b>Composite-2</b></p> 
<p><b>Simeis 147</b> (SH2-240) Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Diffuse Nebula</b> Constellation: <b>Taurus</b> Coordinates: <b>05hr 39' 04"</b> <b>28° 00' 00"</b></p> <p>Close Star: <b>SAO-77168</b> (Elnath) Catalog Objects: <a href="#">SH2-240</a></p> <p>Imaging Window: <b>07:15 – 02:14</b> Transit: <b>10:41   85°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 



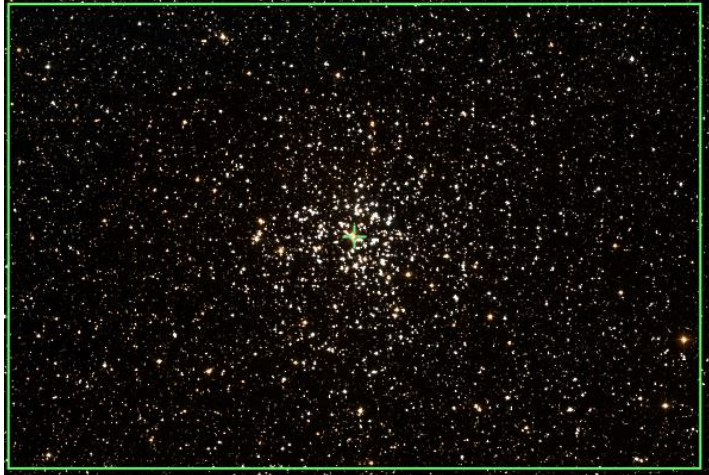
# Prospective Imaging Objects – January 11 2024

<p><b>Flame and Horsehead Nebula</b> (NGC 2024, B 33) Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Diffuse/Dark Nebula</b> Peak: Constellation: <b>Orion</b> Coordinates: <b>05hr 40' 04"</b> <b>-02° 28' 13"</b></p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: <a href="#">NGC 2024</a>, <a href="#">B 33</a></p> <p>Imaging Window: <b>08:46 – 12:44</b> Transit: <b>10:42   54°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Horsehead and Flame Nebula Constellation: Orion</p> <p style="font-size: x-small; text-align: right;">Image Date: 2023-11-12 Location: Mountain View, TX Config: C11 HyperStar (C11-HD) Exposure Info: 148x30min (Gain: 310) (Offset: 17)</p>
<p><b>Flame Nebula</b> (NGC 2024) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b> Peak: Constellation: <b>Orion</b> Coordinates: <b>05hr 41' 45.843"</b> <b>-01° 49' 31.401"</b></p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: <a href="#">NGC 2024</a></p> <p>Imaging Window: <b>08:46 – 12:44</b> Transit: <b>10:42   54°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Flame Nebula (NGC-2024) Constellation: Orion</p> <p style="font-size: x-small; text-align: right;">Image Date: 2023-11-12 Location: Chandler, AZ Config: C11 HD (Primary Focus) (C11-HD) Exposure Info: 178x30min (Gain: 320) (Offset: 18)</p>
<p><b>Horsehead Nebula</b> (B 33) Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Dark Nebula</b> Peak: Constellation: <b>Orion</b> Coordinates: <b>05hr 40' 59"</b> <b>-02° 31' 47"</b></p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: <a href="#">B 33</a></p> <p>Imaging Window: <b>08:49 – 12:39</b> Transit: <b>10:41   54°</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p>  <p style="font-size: small;">Horsehead Nebula (IC-434) Constellation: Orion</p> <p style="font-size: x-small; text-align: right;">Image Date: 2023-11-12 Location: Chandler, AZ Config: C11 (Primary Focus) (C11-HD) Exposure Info: 208x30min (Gain: 320) (Offset: 18)</p>

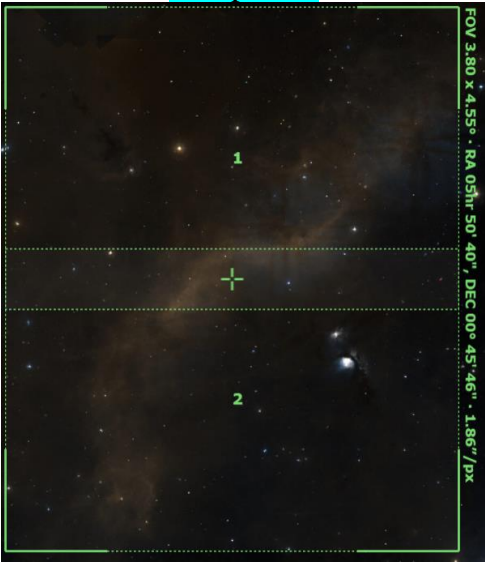
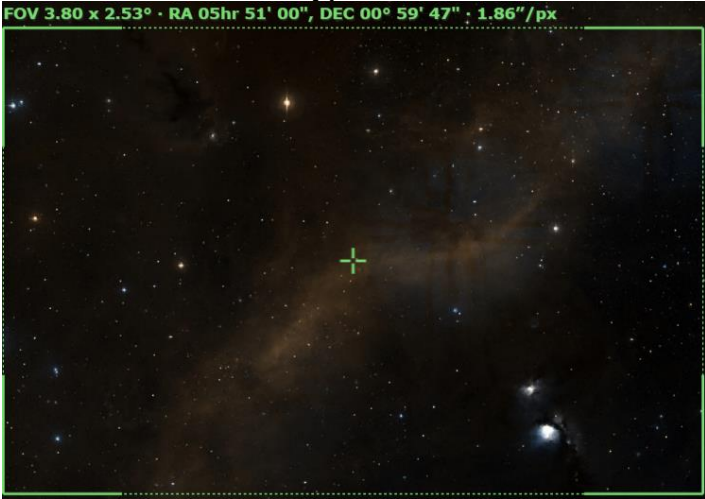
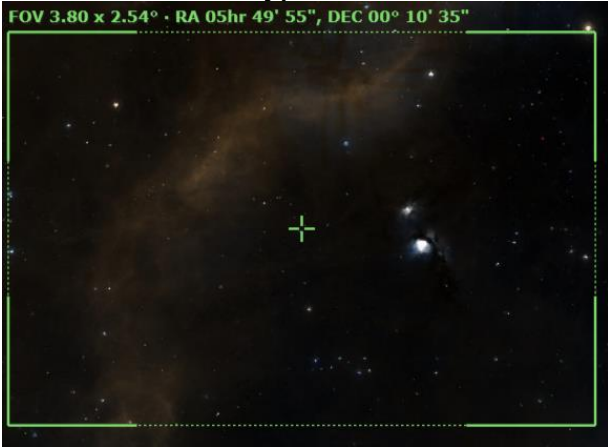
# Prospective Imaging Objects – January 11 2024

<p><b>NGC 2022</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b> Peak: Constellation: <b>Orion</b> Coordinates: <b>05hr 42' 07"</b> <b>09° 04' 55"</b></p> <p>Close Star: SAO-112740 (Bellatrix) Catalog Objects: <a href="#">NGC 2022</a></p> <p>Imaging Window: <b>08:01 – 01:30</b> Transit: <b>10:42   66°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p><small>NGC-2022 Constellation: Orion   RA = 05h 42m 06.6s DEC = +09deg 04' 54.9"   Size = 18.5 x 13.9 arcmin   Orientation: 0.3deg E of N   Pixel scale = 0.277 arcsec/pixel   FL=2900mm James Yoder (Dane)   2023-12-09, 18"   Location: Chandler, AZ   Config:  C-11 HD OPT Froid Ultra   ZWO6200MC   Exposure Info:   50 frames(2min)   Gain: 100   Offset: 50  </small></p>
<p><b>NGC 1961</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Spiral Galaxy</b> Peak: Constellation: <b>Camelopardalis</b> Coordinates: <b>05hr 43' 27"</b> <b>69° 20' 48"</b></p> <p>Close Star: SAO-40750 (Menkalinan) Catalog Objects: <a href="#">NGC 1961</a></p> <p>Imaging Window: <b>07:30 – 02:01</b> Transit: <b>10:42   54°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p><small>Galaxy Cluster (NGC-1961 et al.) Constellation: Camelopardalis   RA = 05h 43m 13.80s DEC = +69deg 21' 13.00"   Size = 42.3 x 28.5 arcmin   Pixel scale = 0.441 arcsec/pixel James Yoder   2019-01-22 Location: Mesa Verde (Dane), Tinseltown, NJ Config:  C-11 HD  QHY12C   Exposure Info:   30 frames(5min)   Gain: 1200   Offset: 100  </small></p>
<p><b>M-78</b> Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Dark Nebula</b> Peak: Constellation: <b>Orion</b></p> <p>Frame 01 RA: <b>05hr 47' 05"</b>DEC: <b>00° 20' 09"</b></p> <p>Frame 02 RA: <b>05hr 47' 05"</b>DEC: <b>-00° 14' 43"</b></p> <p>Close Star: SAO-132346 (Alnilam) Catalog Objects: <a href="#">M 78</a></p> <p>Imaging Window: <b>08:41 – 12:59</b> Transit: <b>10:47</b></p>	<p><b>C-11 HD: <b>Focal Reducer</b> <b>Composite!</b></b></p>  <p><small>FOV 1.04 x 1.28°. RA 05hr 47' 04" DEC 00° 02' 43"</small></p>

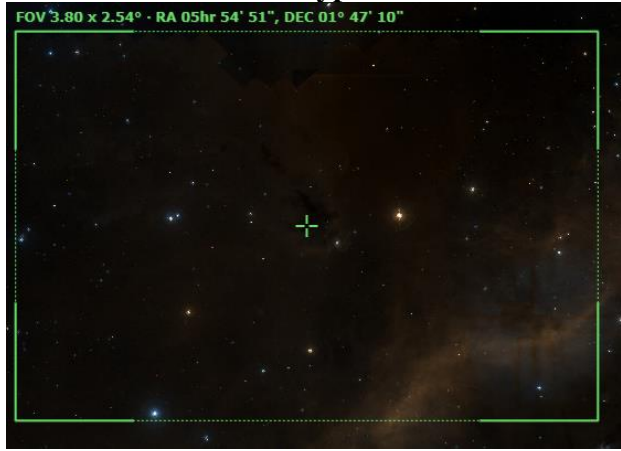

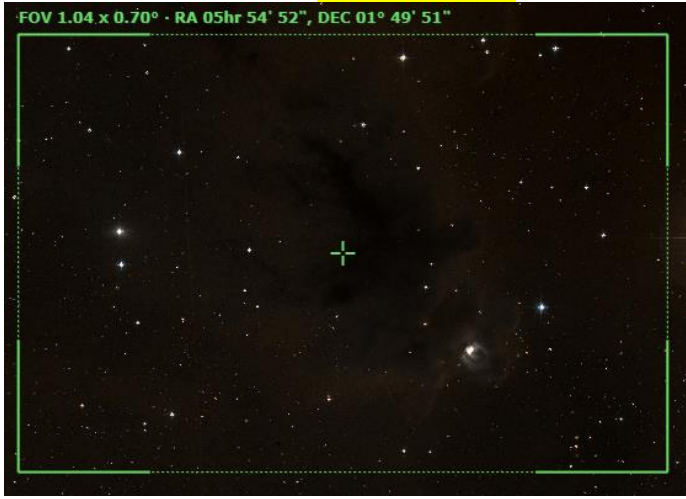
# Prospective Imaging Objects – January 11 2024

<p><b>M-78</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright and Dark Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 46' 59"</b>  <b>00° 08' 59"</b></p> <p>Close Star: SAO-132346 (Alnilam)            Catalog Objects: <a href="#">M 78</a></p> <p>Imaging Window: <b>08:41 – 12:59</b>            Transit: <b>10:47</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>M-78</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright and Dark Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 47' 03"</b>  <b>00° 09' 46"</b></p> <p>Close Star: SAO-132346 (Alnilam)            Catalog Objects: <a href="#">M 78</a></p> <p>Imaging Window: <b>08:41 – 12:59</b>            Transit: <b>10:47</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Salt and Pepper Cluster(M-37)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b>            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 52' 18"</b>  <b>32° 33' 11"</b></p> <p>Close Star: <b>SAO-77168</b> (Elnath)            Catalog Objects: <a href="#">M-37</a>/NGC-2099</p> <p>Imaging Window: <b>07:19 – 02:32</b>            Transit: <b>10:52   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – January 11 2024




<p><b>LDN-1622 Complex</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula &amp; Nebula</b>            Peak:            Constellation: <b>Orion</b></p> <p>Coordinates:            Pane 1: <b>05hr 50' 40", 01° 46' 30"</b>            Pane 2, <b>05hr 50' 40", 00° 14' 57"</b></p> <p>Close Star: SAO-132346 (Anilam)            Catalog Objects: <a href="#">LDN 1622</a>            Imaging Window: <b>08:41 – 01:14</b>            Transit: <b>10:55</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b>  <b>Composite!</b></p> 
<p><b>LDN-1622 (Region 01)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula &amp; Nebula</b>            Peak:            Constellation: <b>Orion</b></p> <p>Coordinates:  <b>05hr 51' 00"</b>  <b>00° 59' 47"</b></p> <p>Close Star: SAO-132346 (Anilam)            Catalog Objects: <a href="#">LDN 1622</a>            Imaging Window: <b>08:41 – 01:14</b>            Transit: <b>10:55</b></p>	<p style="text-align: center;"><b>HyperStar</b></p> 
<p><b>LDN-1622 (Region 02)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula &amp; Nebula</b>            Peak:            Constellation: <b>Orion</b></p> <p>Coordinates:  <b>05hr 49' 55"</b>  <b>00° 10' 35"</b></p> <p>Close Star: SAO-132346 (Anilam)            Catalog Objects: <a href="#">LDN 1622</a>            Imaging Window: <b>08:41 – 01:14</b>            Transit: <b>10:55</b></p>	<p style="text-align: center;"><b>HyperStar</b></p> 

# Prospective Imaging Objects – January 11 2024

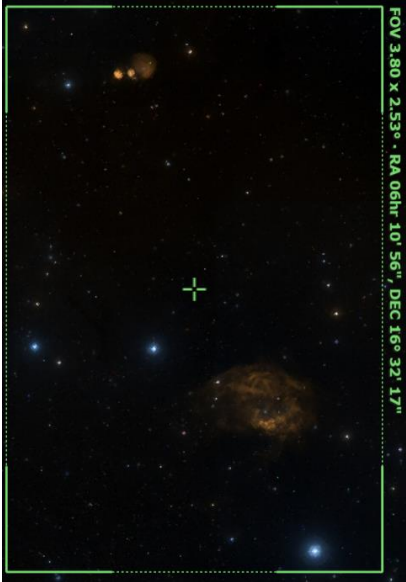
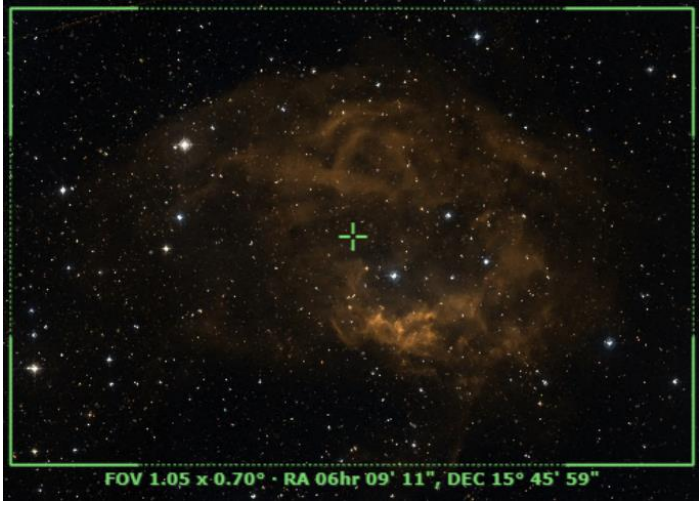

<p><b>LDN-1622 (Region 03)</b>          Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright and Dark Nebula</b>          Peak:          Coordinates:  <b>05hr 54' 51"</b>  <b>01° 47' 10"</b></p> <p>Close Star: SAO-112740(Bellatrix)          Catalog Objects: <a href="#">LDN-1622</a></p> <p>Imaging Window: <b>08:41 – 01:14</b>          Transit: <b>10:55</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="text-align: center;">FOV 3.80 x 2.54° · RA 05hr 54' 51", DEC 01° 47' 10"</p>
<p><b>LDN 1622</b>          Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula</b>          Peak:          Constellation: <b>Orion</b>  <b>Camera Rotation - 90°</b>          Frame 01          RA: <b>05hr 56' 28"</b>DEC: <b>01° 58' 32"</b>          Frame 02          RA: <b>05hr 54' 08"</b>DEC: <b>01° 58' 35"</b>          Close Star: SAO-132346 (Alnilam)          Catalog Objects: <a href="#">LDN 1622</a></p> <p>Imaging Window: <b>08:41 – 01:14</b>          Transit: <b>10:55</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer Composite!</b></p>  <p style="text-align: center;">FOV 1.04 x 1.28° · RA 05hr 55' 18", DEC 01° 58' 34"</p>
<p><b>LDN-1622</b>          Config:  C11HD FR ZWO6200MC </p> <p>Type: <b>Bright and Dark Nebula</b>          Peak:          Constellation: <b>Orion</b>          Coordinates:  <b>05hr 54' 52"</b>  <b>01° 49' 51"</b></p> <p>Close Star: SAO-112740(Bellatrix)          Catalog Objects: <a href="#">LDN-1622</a></p> <p>Imaging Window: <b>08:41 – 01:14</b>          Transit: <b>10:55</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 05hr 54' 52", DEC 01° 49' 51"</p>




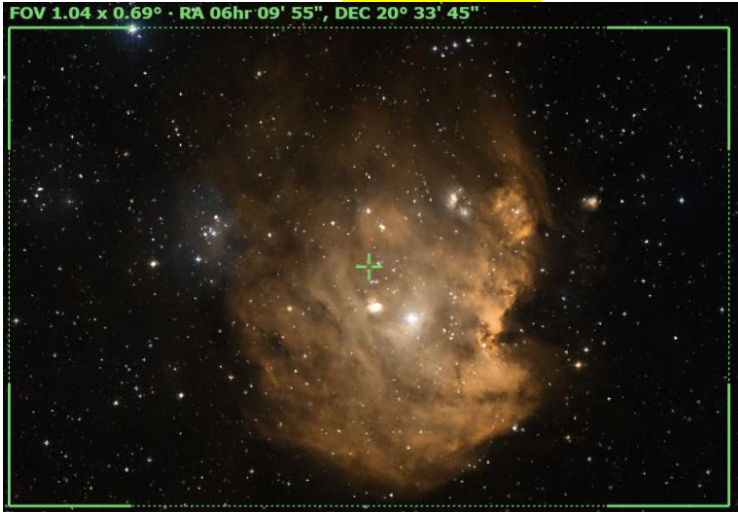

# Prospective Imaging Objects – January 11 2024

<p><b>LDN 1622</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula</b> Peak: Constellation: <b>Orion</b> Coordinates: <b>05hr 54' 55"</b> <b>01° 49' 49"</b></p> <p>Close Star: SAO-132346 (Anilam) Catalog Objects: <a href="#">LDN 1622</a></p> <p>Imaging Window: <b>08:41 – 01:14</b> Transit: <b>10:55</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Angel Nebula (NGC 2170)</b> Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Bright and Dark Nebula</b> Peak: Constellation: <b>Monoceros</b> Coordinates: <b>06hr 08' 26"</b> <b>-06° 25' 24"</b></p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: <a href="#">NGC 2170</a></p> <p>Imaging Window: <b>09:03 – 01:17</b> Transit: <b>11:08</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 06hr 08' 26", DEC -06° 25' 24"</p> 
<p><b>Angel Nebula (NGC 2170)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright and Dark Nebula</b> Peak: Constellation: <b>Monoceros</b> Coordinates: <b>06hr 08' 23"</b> <b>-06° 19' 23"</b></p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: <a href="#">NGC 2170</a></p> <p>Imaging Window: <b>09:03 – 01:17</b> Transit: <b>11:08</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Angel Nebula (NGC-2170) Constellation: Monoceros R.A. = 06h 08m 23.0s, DEC = -06deg 19' 23.1" Size = 41.2 x 27.5 arcmin   Orientation: 0 deg E of N   Pixel scale = 0.446 arcsec/pixel   F1-200frames</p> <p style="font-size: x-small;">James Yoder   Location(s): Mountain Grande (2920 ft), Chandler/2020 16.125, AZ   Config:  C11 HD  ZWO6200MC   ZWO6200MC   Exposure Info: 475min/30min (Gain: 3200 / 0.9Sec / 180)</p>



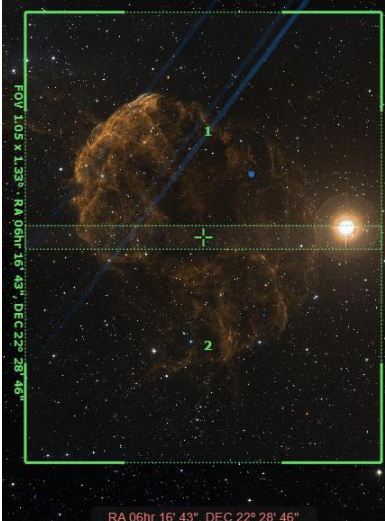
# Prospective Imaging Objects – January 11 2024

<p><b>IC-2162 &amp; SH 2-261</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>06hr 10' 56"</b>  <b>16° 32' 17"</b>            Angle: <b>90° East</b></p> <p>Close Star: SAO-78297 (Calix)            Catalog Objects: <a href="#">IC-2162</a> <a href="#">Sh 2-261</a></p> <p>Imaging Window: <b>08:08 – 02:15</b>            Transit: <b>11:09   72°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>Lower's Nebula (Sh 2-261)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>06hr 09' 11"</b>  <b>15° 45' 59"</b></p> <p>Close Star: <b>SAO-78297</b> (Calix)            Catalog Objects: <a href="#">Sh 2-261</a></p> <p>Imaging Window: <b>08:08 – 02:15</b>            Transit: <b>11:09   72°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Lower's Nebula (Sh 2-261)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>06hr 08' 59"</b>  <b>15° 46' 39"</b></p> <p>Close Star: <b>SAO-78297</b> (Calix)            Catalog Objects: <a href="#">Sh 2-261</a></p> <p>Imaging Window: <b>08:08 – 02:15</b>            Transit: <b>11:09   72°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – January 11 2024

<p><b>M-35, NGC-2158</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Open Cluster Pair</b>            Constellation: <b>Gemini</b>            Coordinates:  <b>06hr 08' 39"</b>  <b>24° 14' 48"</b></p> <p>Close Star: <b>SAO-95912</b> (Alhena)            Catalog Objects: <a href="#">M-35</a>/NGC-2168,            NGC-2158</p> <p>Imaging Window: <b>07:49 – 02:35</b>            Transit: <b>11:09   81°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Monkey Head (NGC-2174)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>06hr 09' 50"</b>  <b>20° 29' 50"</b></p> <p>Close Star: SAO-78297 (Calix)            Catalog Objects: <a href="#">NGC 2174</a>/Sh 2-252</p> <p>Imaging Window: <b>07:58 – 02:28</b>            Transit: <b>11:10   77°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> <p style="text-align: center;">FOV 1.04 x 0.69° · RA 06hr 09' 55", DEC 20° 33' 45"</p> 
<p><b>Monkey Head (NGC 2174)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>06hr 09' 50"</b>  <b>20° 29' 50"</b></p> <p>Close Star: SAO-78297 (Calix)            Catalog Objects: <a href="#">NGC 2174</a>/Sh 2-252</p> <p>Imaging Window: <b>07:58 – 02:28</b>            Transit: <b>11:10   77°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">       Monkey Head Nebula (NGC-2174)        Constellation: Orion        RA = 06h 09m 49.11s, DEC = +20deg 29' 52.100" Size = 11.1 x 6.9 arcmin   Field scale = 0.440 arcsec/pixel   F-C: 2.70mm        Image: Yolo - 2024-01-11        Location: Chandler, AZ        Config: C-11 HD (Astromech) CLS-C-11   6000   50x        Exposure info: 27 frames/Star, Gain: 3200, 100Sec, 100     </p>




# Prospective Imaging Objects – January 11 2024

<p><b>IC 2162</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b> Peak: Constellation: <b>Orion</b> Coordinates: <b>06hr 12' 25"</b> <b>17° 59' 26"</b></p> <p>Close Star: SAO-78297 (Calix) Catalog Objects: <a href="#">IC 2162</a></p> <p>Imaging Window: <b>08:07 – 02:25</b> Transit: <b>11:13   75°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Bright Nebula IC-2162 Constellation: Orion RA=06h 12m 25s, DEC=+17deg 59' 26" (Size = 42.3 x 23.0 arcmin; Peak scale = 0.41 arcsec/pixel)</p> <p style="font-size: x-small; text-align: right;">James Volder   Date(s) 2020-01-22   Location: Chandler, AZ Config.: C-11 HD   APM102 ASA/CCD   0.81   12s Exposure Info: 120000/1000/1000   Gain: 2000   Offset: 100</p>
<p><b>Jellyfish Nebula (IC 443)</b> Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Supernova Remnant</b> Peak: Constellation: <b>Gemini</b> Coordinates: <b>06hr 19' 56"</b> <b>23° 06' 17"</b></p> <p>Close Star: SAO-78297 (Calix) Catalog Objects: <a href="#">IC 443</a></p> <p>Imaging Window: <b>08:01 – 02:40</b> Transit: <b>11:18   79°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Jellyfish Nebula (IC-443) Constellation: Gemini RA=06h 19m 25s, DEC=+23deg 06' 17" (Size = 3.14 x 2.99 deg; Orientation: 8deg E of N; Pixel scale = 2.28 arcsec/pixel; FL=540mm)</p> <p style="font-size: x-small; text-align: right;">James Volder   Date(s) 2020-10-21   Location: Chandler, AZ Config.: C-11 HD   HyperStar v4   APM102 ASA/CCD   0.81   12s Exposure Info: 150000/1000/1000   Gain: 1200   Offset: 100</p>
<p><b>Jellyfish Nebula (IC 443)</b> Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Supernova Remnant</b> Peak: Constellation: <b>Gemini</b> Coordinates: <b>F1   RA=06:16:43 DEC=22:47:40</b> <b>F2   RA=06:16:43 DEC=22:09:52</b></p> <p>Close Star: SAO-78297 (Calix) Catalog Objects: <a href="#">IC 443</a></p> <p>Imaging Window: <b>08:01 – 02:40</b> Transit: <b>11:18   79°</b></p>	<p style="text-align: center;"><b>C11-HD: Focal Reducer Composite 2!</b></p>  <p style="font-size: small; text-align: center;">FOV: 105" x 133" - RA 06hr 16' 43" - DEC 22° 28' 46"</p> <p style="font-size: x-small; text-align: center;">RA 06hr 16' 43" - DEC 22° 28' 46"</p>


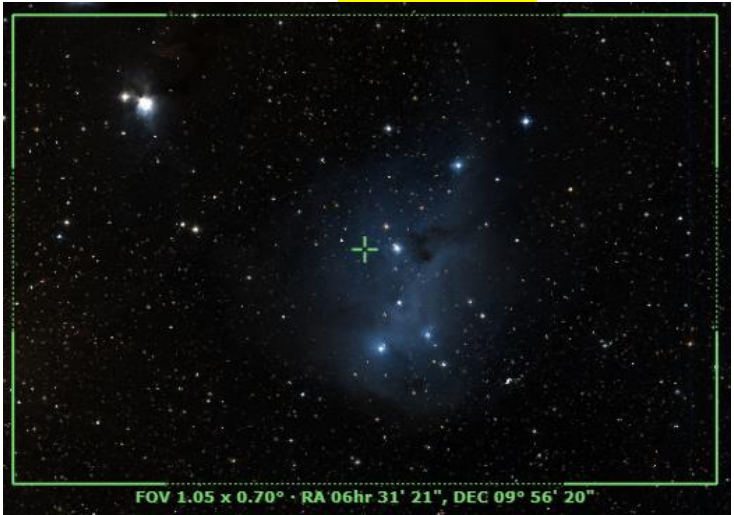

# Prospective Imaging Objects – January 11 2024

<p><b>Jellyfish Nebula (IC 443)</b>            Config:  C11 LF ZWO6200MC </p> <p>Type: <b>Supernova Remnant</b>            Peak:            Constellation: <b>Gemini</b>            Coordinates:  <b>06hr 16' 51"</b>  <b>22° 36' 34"</b></p> <p>Close Star: SAO-78297 (Calix)            Catalog Objects: <a href="#">IC 443</a></p> <p>Imaging Window: <b>08:01 – 02:40</b>            Transit: <b>11:18   79°</b></p>	<p style="text-align: center;">Primary Focus</p>  <p style="font-size: small;">Jellyfish nebula (IC 443)            Constellation: Gemini</p> <p style="font-size: x-small; text-align: right;">Location: Canada, AZ            Config: C11   System L1 Corrector   OPT 160mm f8.5   OPT 2x            Exposure Info: 100ms/Frame - Gain: 1200   Offset: 100</p>
<p><b>Sh 2-249 (IC-444)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Gemini</b>            Coordinates:  <b>06hr 19' 15"</b>  <b>23° 24' 58"</b></p> <p>Close Star: SAO-78297 (Calix)            Catalog Objects: <a href="#">Sh 2-249</a></p> <p>Imaging Window: <b>08:01 – 02:42</b>            Transit: <b>11:19   80°</b></p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p><b>IC-2165</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Peak:            Constellation: <b>Canis Major</b>            Coordinates:  <b>06hr 21' 43"</b>  <b>-12° 59' 12"</b></p> <p>Close Star:            Catalog Objects: <a href="#">IC-2165</a></p> <p>Imaging Window: <b>*09:19 – 01:33</b>            Transit: <b>11:22   44°</b></p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: x-small; text-align: center;">FOV 0.73 x 0.48° · RA 06hr 21' 43", DEC -12° 59' 12" · 0.28"/px</p>


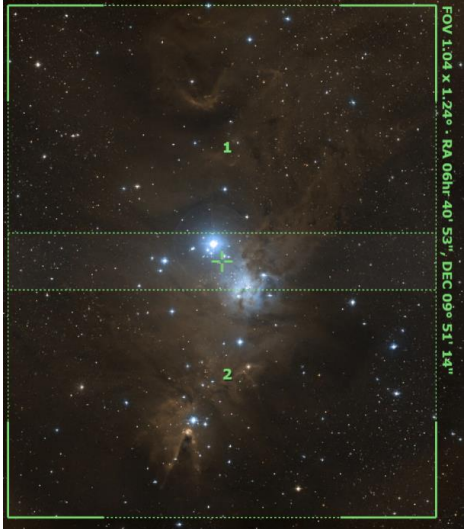
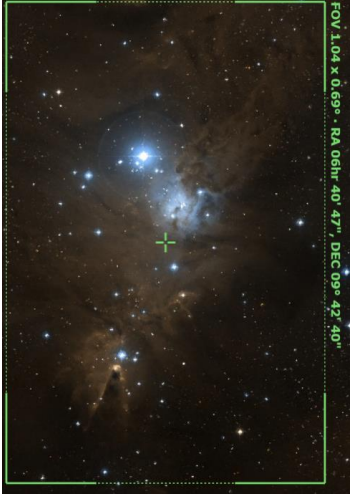
# Prospective Imaging Objects – January 11 2024

<p><b>Rosette Nebula (NGC 2237)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b>            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 31' 53.37"</b>  <b>04° 50' 45.29"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">NGC 2237</a> ,NGC-2244</p> <p>Imaging Window: <b>09:04 – 02:04</b>            Transit: <b>11:31   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Rosette Nebula (NGC 2237, 2244)   C-11 HyperStar   1600iso   52min   2023-12-10 21:45</p>
<p><b>Rosette Nebula (NGC 2237)</b>            Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 32' 01"</b>  <b>04° 59' 28"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">NGC 2237</a></p> <p>Imaging Window: <b>09:04 – 02:04</b>            Transit: <b>11:31   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Rosette Nebula (NGC 2237)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 32' 02"</b>  <b>04° 58' 14"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">NGC 2237</a></p> <p>Imaging Window: <b>09:04 – 02:04</b>            Transit: <b>11:31   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – January 11 2024



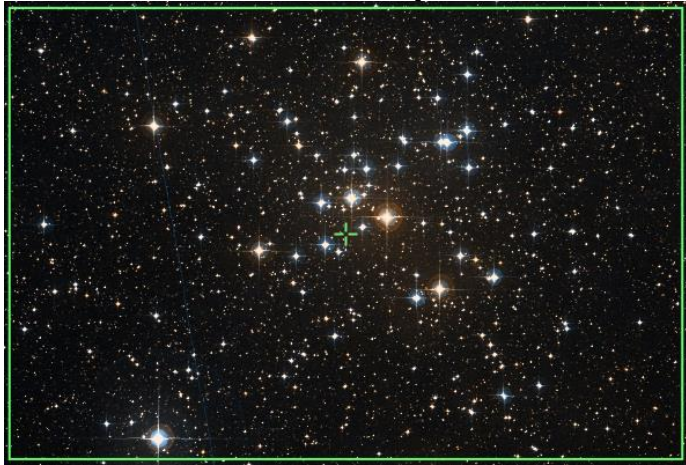
<p><b>IC-2169</b>            Config: C11   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 36' 00"</b>  <b>10° 16' 17"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">IC 2169</a></p> <p>Imaging Window: <b>08:46 – 02:22</b>            Transit: <b>11:31   67°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>IC 2169</b>            Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 31' 21"</b>  <b>09° 56' 20"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">IC 2169</a></p> <p>Imaging Window: <b>08:46 – 02:22</b>            Transit: <b>11:31   67°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>IC 2169</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 31' 36"</b>  <b>09° 58' 16"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">IC 2169</a></p> <p>Imaging Window: <b>08:46 – 02:22</b>            Transit: <b>11:31   67°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – January 11 2024




<p><b>Hubble's Variable Nebula</b> (NGC 2261) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Reflection Nebula</b> Constellation: <b>Monoceros</b> Coordinates: <b>06hr 39' 12"</b> <b>08° 45' 00"</b></p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: <a href="#">NGC 2261</a></p> <p>Imaging Window: <b>08:59 – 02:26</b> Transit: <b>11:39   65°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Christmas Tree &amp; Cone</b> Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Coordinates: Pane 1: <b>06hr 40' 53"</b>, <b>10° 07' 47"</b> Pane 2, <b>06hr 40' 53"</b>, <b>09° 34' 40"</b></p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: <a href="#">NGC 2264</a>/Sh 2-273</p> <p>Imaging Window: <b>08:57 – 02:31</b> Transit: <b>11:41   67°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer Composite!</b></p> 
<p><b>Christmas Tree &amp; Cone</b> Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b> Peak: Constellation: <b>Monoceros</b> Coordinates: <b>06hr 40' 47"</b> <b>09° 42' 40"</b> Angle: <b>90° East</b></p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: <a href="#">NGC 2264</a>/Sh 2-273</p> <p>Imaging Window: <b>08:57 – 02:31</b> Transit: <b>11:41   67°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 






# Prospective Imaging Objects – January 11 2024

<p><b>Christmas Tree Cluster</b> (NGC 2264)            Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 40' 58.74"</b>  <b>09° 53' 32.69"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">NGC 2264</a>/Sh 2-273</p> <p>Imaging Window: <b>08:57 – 02:31</b>            Transit: <b>11:41   67°</b></p>	<p style="text-align: center;">Primary Focus</p> 
<p><b>Cone Nebula-1</b> (NGC 2264)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 41' 07"</b>  <b>09° 27' 52"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">NGC 2264</a></p> <p>Imaging Window: <b>08:57 – 02:31</b>            Transit: <b>11:41   67°</b></p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p><b>M-41</b> (NGC 2287)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b>            Constellation: <b>Canis Major</b>            Coordinates:  <b>06hr 46' 09"</b>  <b>20° 47' 35"</b></p> <p>Close Star: <b>SAO-151881</b> (Sirius)            Catalog Objects: <a href="#">M-41</a>/NGC 2287</p> <p>Imaging Window: <b>*10:04 – 01:39</b>            Transit: <b>11:46   36°</b></p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

# Prospective Imaging Objects – January 11 2024




<p><b>M-50</b> (NGC 2323)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b>            Constellation: <b>Monoceros</b>            Coordinates:  <b>07hr 02' 48"</b>  <b>-08° 22' 33"</b></p> <p>Close Star: <b>SAO-151881</b> (Sirius)            Catalog Objects: <a href="#">M-50</a>/NGC 2323</p> <p>Imaging Window: *10:09 – 02:01            Transit: 12:03   48°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Seagull Nebula</b> (IC-2177)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>07hr 06' 20"</b>  <b>-11° 06' 56"</b></p> <p>Close Star: SAO-151881 (Sirius)            Catalog Objects: <a href="#">IC-2177</a></p> <p>Imaging Window: *09:47 – 02:28            Transit: 12:04   46°</p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4 - 90° Rotation</b></p>  <p style="font-size: small;">Seagull Nebula (IC-2177, NGC-2327, NGC-2335, NGC-2343)  <small>© James Walker (Dawson) 2021-01-09, 10, 11, 12, 17; Location: Chandler, AZ            Constellation: Monoceros            RA: 07h 06m 20.28s; Dec: -11deg 07' 56.21"; Size: 210 x 140 arcmin; Orientation: 90deg S of N; Pixel scale: 1.278 arcsec/pixel; FL: 563mm            Config: C-11HD HyperStar V4 (Optolong L-Extreme) (089128);            Exposure: 10/Transit/Star; Gain: 3200; Offset: 100</small></p>
<p><b>Seagull Nebula</b> (IC 2177)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>07hr 04' 47"</b>  <b>-10° 27' 49"</b></p> <p>Close Star: SAO-151881 (Sirius)            Catalog Objects: <a href="#">IC 2177</a></p> <p>Imaging Window: *09:47 – 02:28            Transit: 12:04   46°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – January 11 2024



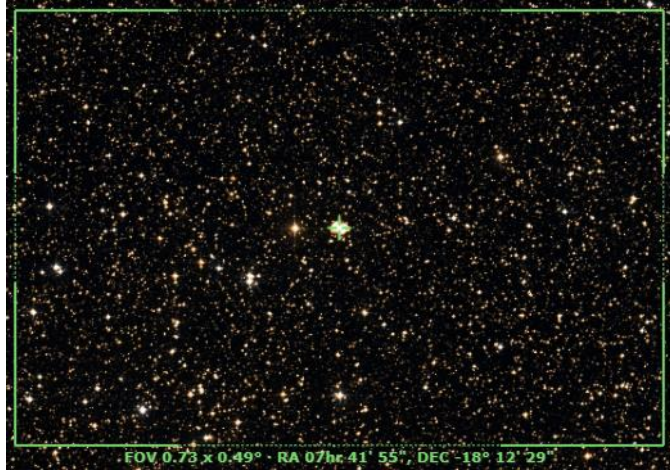
<p><b>Hourglass Nebula</b> (NGC-2346)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>07hr 09' 23"</b>  <b>00° 48' 22"</b></p> <p>Close Star: SAO-115756 (Procyon)            Catalog Objects: <a href="#">NGC-2346</a></p> <p>Imaging Window: *09:36 – 02:45            Transit: 12:09   56°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus x2</b></p>  <p style="font-size: small; text-align: center;">Planetary Nebula NGC-2346            Constellation: Monoceros            RA: 07h 09m 23s.000 Dec: 00d 48m 22s.000</p>
<p><b>Integral Sign Galaxy</b> (UGC 3697)            Config:  C11HD FR ZWO6200MC </p> <p>Type: <b>Galaxy Group</b>            Constellation: <b>Camelopardalis</b>            Coordinates:  <b>07hr 11' 40"</b>  <b>71° 56' 04"</b></p> <p>Close Star: <b>SAO-40186</b> (Capella)            Catalog Objects: <a href="#">UGC-3697</a>, UGC-3714, UGC-3701</p> <p>Imaging Window: 08:08 – 04:19            Transit: 12:11   52°</p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Integral Sign Galaxy</b> (UGC 3697)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b>            Constellation: <b>Camelopardalis</b>            Coordinates:  <b>07hr 11' 50"</b>  <b>71° 48' 14"</b></p> <p>Close Star: <b>SAO-40186</b> (Capella)            Catalog Objects: <a href="#">UGC-3697</a>, UGC-3714</p> <p>Imaging Window: 08:08 – 04:19            Transit: 12:11   52°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 



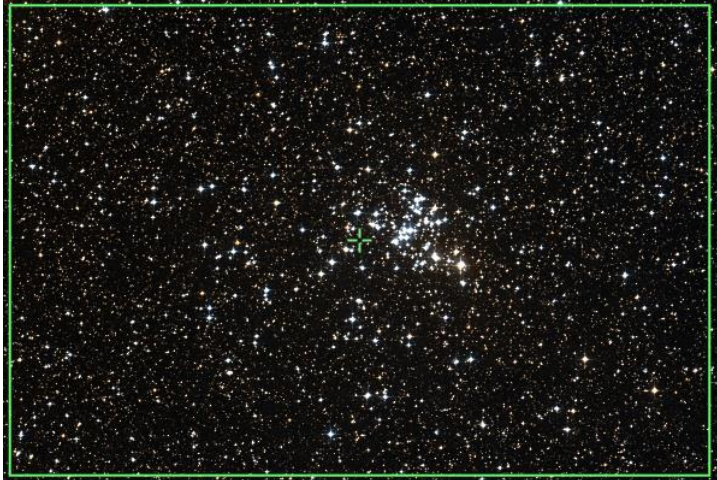


# Prospective Imaging Objects – January 11 2024

<p><b>Eskimo Nebula (NGC-2392)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Gemini</b>            Coordinates:  <b>07h 29' 11"</b>  <b>20° 54' 45"</b></p> <p>Close Star: <b>SAO-79666</b> (Pollux)            Catalog Objects: <a href="#">NGC-2392</a></p> <p>Imaging Window: <b>09:16 – 03:48</b>            Transit: <b>12:29   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC-2392 (Eskimo Nebula) James Yoder   Date(s) 2020.12.09   Location: Chandler, AZ            Constellation: Gemini Config:  C-11 HD KPT Tread Ultra   ZWO6200MC            RA = 07h 29m 11.5s DEC = +20deg 54' 33.6" Size = 18.5 x 13.9 arcmin Orientation: 0.5deg E of N Pixel scale = 0.278 arcsec/pixel   FL=2400mm   Exposure: 1s   14 Frames/2min   Gain: 100   Offset: 50</p>
<p><b>M-47 (NGC-2422)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Puppis</b>            Coordinates:  <b>07h 36' 36"</b>  <b>-14° 32' 19"</b></p> <p>Close Star: <b>SAO-79666</b> (Pollux)            Catalog Objects: <a href="#">M-47</a>/NGC-2422</p> <p>Imaging Window: <b>*10:42 – 02:34</b>            Transit: <b>12:36   42°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-2403</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Camelopardalis</b>            Coordinates:  <b>07h 36' 51"</b>  <b>65° 36' 06"</b></p> <p>Close Star: <b>SAO-79666</b> (Pollux)            Catalog Objects: <a href="#">NGC-2403</a></p> <p>Imaging Window: <b>09:08 – 04:12</b>            Transit: <b>12:37   58°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Galaxy NGC-2403 (Caldwell 7) James Yoder   Date(s) 2020.12.09   Location: Chandler, AZ            Constellation: Camelopardalis Config:  C-11 HD KPT Tread Ultra   ZWO6200MC            RA = 07h 36m 51.1s DEC = +65deg 36' 06.1" Size = 18.5 x 13.9 arcmin Orientation: 0.5deg E of N Pixel scale = 0.278 arcsec/pixel   FL=2400mm   Exposure: 1s   14 Frames/2min   Gain: 100   Offset: 50</p>


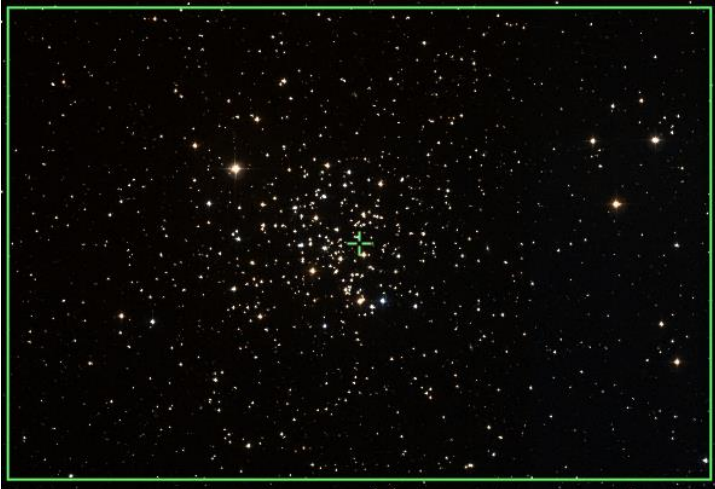

# Prospective Imaging Objects – January 11 2024

<p><b>Intergalactic Wanderer (NGC-2419)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Lynx</b> Coordinates: <b>07h 38' 09"</b> <b>38° 52' 57"</b></p> <p>Close Star: <b>SAO-79666 (Pollux)</b> Catalog Objects: <a href="#">NGC-2419</a></p> <p>Imaging Window: <b>08:57 – 04:25</b> Transit: <b>12:38   84°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;"><small>Intergalactic Wanderer (NGC-2419) © 2023 Starizona LLC. All rights reserved. This image is for personal use only. No part of this image may be reproduced without the written permission of Starizona LLC.</small></p>
<p><b>M-46 (NGC-2437)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster with PN</b></p> <p>Constellation: <b>Puppis</b> Coordinates: <b>07h 41' 45"</b> <b>-14° 46' 43"</b></p> <p>Close Star: <b>SAO-151881 (Sirius)</b> Catalog Objects: <a href="#">M-46</a>/NGC-2437, NGC-2438</p> <p>Imaging Window: <b>*10:53 – 02:34</b> Transit: <b>12:42   42°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;"><small>NGC-2438 © 2023 Starizona LLC. All rights reserved. This image is for personal use only. No part of this image may be reproduced without the written permission of Starizona LLC.</small></p>
<p><b>Bow-Tie Nebula (NGC-2440)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Puppis</b> Coordinates: <b>07° 41' 55"</b> <b>-18° 12' 29"</b></p> <p>Close Star: <b>SAO-151881 (Sirius)</b> Catalog Objects: <a href="#">NGC-2440</a></p> <p>Imaging Window: <b>*10:37 – 02:51</b> Transit: <b>12:42   38°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus x2</b></p>  <p style="text-align: center;"><small>FOV 0.73 x 0.49° • RA 07hr 41' 55", DEC -18° 12' 29"</small></p>

# Prospective Imaging Objects – January 11 2024




<p><b>Butterfly Cluster</b> (<a href="#">M-93</a>, <a href="#">NGC-2447</a>)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Puppis</b>            Coordinates:  <b>07h 44' 46"</b>  <b>-23° 51' 52"</b></p> <p>Close Star: <b>SAO-151881</b> (Sirius)            Catalog Objects: <a href="#">M-93</a>/NGC-2447</p> <p>Imaging Window: *<b>10:26 – 02:56</b>            Transit: <b>12:44   33°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-48</b> (<a href="#">NGC-2548</a>)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Hydra</b>            Coordinates:  <b>08h 13' 46"</b>  <b>-05° 46' 05"</b></p> <p>Close Star: <b>SAO-115756</b> (Procyon)            Catalog Objects: <a href="#">M-48</a>/NGC-2548</p> <p>Imaging Window: *<b>11:04 – 03:29</b>            Transit: <b>01:13   51°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-2610</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Hydra</b>            Coordinates:  <b>08h 33' 23"</b>  <b>-16° 08' 55"</b></p> <p>Close Star: <b>SAO-151881</b> (Sirius)            Catalog Objects: <a href="#">NGC-2610</a></p> <p>Imaging Window: *<b>11:54 – 03:18</b>            Transit: <b>01:33   41°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus x2</b></p> 

# Prospective Imaging Objects – January 11 2024




<p><b>Beehive Cluster</b> (NGC-2632) Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Cancer</b> Coordinates: <b>08h 39' 59"</b> <b>19° 39' 01"</b></p> <p>Close Star: <b>SAO-115756</b> (Procyon) Catalog Objects: <a href="#">M-44</a>/NGC-2632</p> <p>Imaging Window: <b>10:30 – 04:56</b> Transit: <b>01:40   76°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>M-67</b> (NGC-2682) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Cancer</b> Coordinates: <b>08h 51' 18"</b> <b>11° 48' 60"</b></p> <p>Close Star: <b>SAO-115756</b> (Procyon) Catalog Objects: <a href="#">M-67</a>/NGC-2682</p> <p>Imaging Window: <b>11:01 – 04:47</b> Transit: <b>01:51   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Helix Galaxy</b> (NGC-2685) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Ursa Major</b> Coordinates: <b>08h 55' 14"</b> <b>58° 42' 24"</b></p> <p>Close Star: <b>SAO-27876</b> (Merak) Catalog Objects: <a href="#">NGC-2685</a></p> <p>Imaging Window: <b>10:12 – 05:45</b> Transit: <b>01:55   65°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




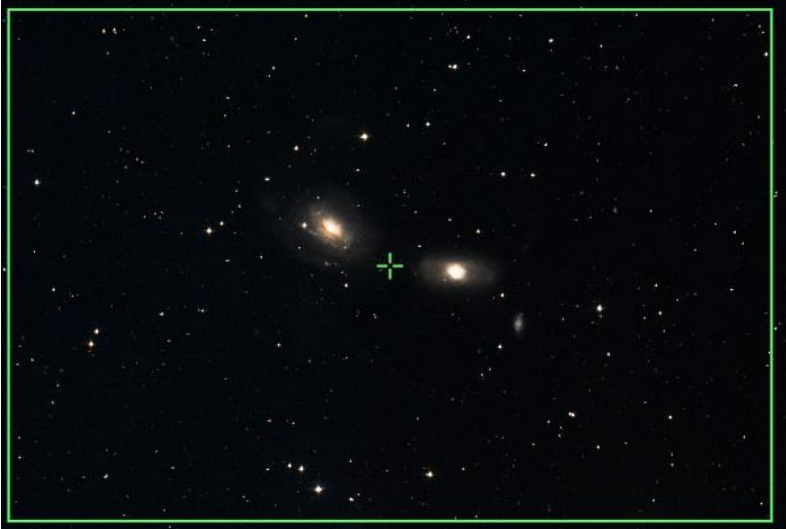

# Prospective Imaging Objects – January 11 2024

<p><b>NGC-2903</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Leo</b> Coordinates: <b>09h 32' 08.949"</b> <b>21° 30' 37.772"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus) Catalog Objects: <a href="#">NGC-2903</a></p> <p>Imaging Window: <b>11:18 – 05:52</b> Transit: <b>02:32   78°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 
<p><b>Bode's Cigar (M81 &amp; M82)</b> Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxy Pair</b> Peak: Constellation: <b>Ursa Major</b> Coordinates: <b>09hr 54' 02"</b> <b>68° 53' 32"</b></p> <p>Close Star: <b>SAO-15384</b> Catalog Objects: M-81 &amp; <a href="#">M-82</a></p> <p>Imaging Window: <b>11:45 – 06:04</b> Transit: <b>02:55   54°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p> 
<p><b>Bode's Cigar (M81 &amp; M82)</b> Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxy Pair</b> Constellation: <b>Ursa Major</b> Coordinates: RA: <b>09hr 55' 40"</b> DEC: <b>69° 18' 39"</b> <b>90° Rotation</b></p> <p>Close Star: <b>SAO-15384</b> Catalog Objects: M-81 &amp; <a href="#">M-82</a></p> <p>Imaging Window: <b>11:45 – 06:04</b> Transit: <b>02:55   54°</b></p>	<p><b>C-11 HD: Focal Reducer</b></p> 



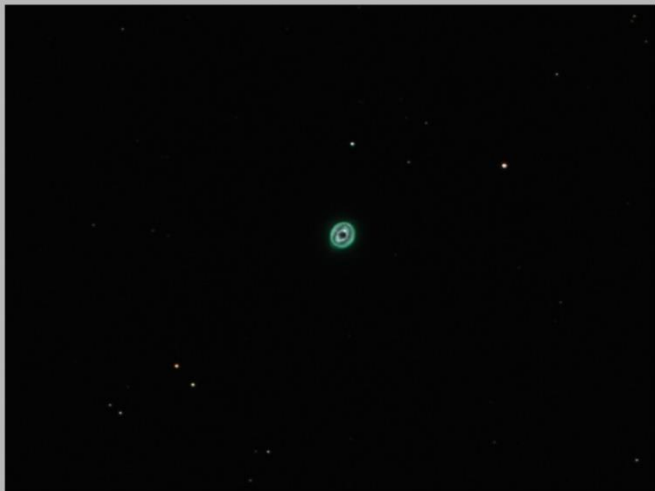
# Prospective Imaging Objects – January 11 2024

<p><b>Bode's Nebula (M-81)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b> Constellation: <b>Ursa Major</b> Coordinates: <b>09h 55' 24.184"</b> <b>69° 05' 18.969"</b></p> <p>Close Star: <b>SAO-15384</b> Catalog Objects: M-81/<a href="#">NGC-3031</a></p> <p>Imaging Window: <b>11:41 – 06:04</b> Transit: <b>02:55   54°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p>M-081 Bode's Galaxy</p> <p>James Yoder 2015.11.14</p>
<p><b>Cigar Galaxy (M-82)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Ursa Major</b> Coordinates: <b>09h 55' 57.451"</b> <b>69° 42' 37.646"</b></p> <p>Close Star: <b>SAO-15384</b> Catalog Objects: <a href="#">M-82</a>/NGC-3034</p> <p>Imaging Window: <b>11:45 – 06:04</b> Transit: <b>02:55   54°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p>M-082 Cigar Galaxy</p> <p>James Yoder 2017.03.24</p>
<p><b>Spindle Galaxy (NGC-3115)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Sextans</b> Coordinates: <b>10h 05' 21"</b> <b>-07° 47' 09"</b></p> <p>Close Star: <b>SAO-98967 (Regulus)</b> Catalog Objects: <a href="#">NGC-3115</a></p> <p>Imaging Window: <b>*12:33 – 05:42</b> Transit: <b>03:05   49°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p>M-081 Bode's Galaxy</p> <p>James Yoder 2015.11.14</p>




# Prospective Imaging Objects – January 11 2024

<p><b>Powder keg Galaxy</b> (UGC-5470) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Leo</b> Coordinates: <b>10h 08' 27"</b> <b>12° 19' 49"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus) Catalog Objects: <a href="#">UGC-5470</a></p> <p>Imaging Window: <b>12:17 – 06:04</b> Transit: <b>03:08   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-3166 &amp; NGC-3169</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy pair</b></p> <p>Constellation: <b>Sextans</b> Coordinates: <b>10h 14' 01"</b> <b>03° 25' 51"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus) Catalog Objects: <a href="#">NGC-3166</a>, <a href="#">NGC-3169</a></p> <p>Imaging Window: <b>12:53 – 05:41</b> Transit: <b>03:13   60°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Hickson 44</b> (NGC-3190, 3189.) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Leo</b> Coordinates: <b>10h 17' 57"</b> <b>21° 49' 11"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus) Catalog Objects: <a href="#">NGC-3189</a>, 3190, 3185, 3193, 3187, PGC-2806871</p> <p>Imaging Window: <b>12:03 – 06:04</b> Transit: <b>03:17   79°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p><small>Hickson-44 Galaxy Cluster (Amp-316) © 2003-2004, Starizona Starizona Optics, Inc. 10000 N. 19th Ave., Suite 100, Scottsdale, AZ 85261 Phone: 480-344-3333   Fax: 480-344-3334   Email: info@starizona.com</small></p> <p><small>Starizona Optics, Inc. 10000 N. 19th Ave., Suite 100, Scottsdale, AZ 85261 Phone: 480-344-3333   Fax: 480-344-3334   Email: info@starizona.com</small></p>




# Prospective Imaging Objects – January 11 2024

<p><b>NGC-3184</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Face-on Spiral Galaxy</b></p> <p>Constellation: <b>Ursa Major</b> Coordinates: <b>10h 18' 17"</b> <b>41° 25' 24"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus) Catalog Objects: <a href="#">NGC-3184</a></p> <p>Imaging Window: <b>11:35 – 06:04</b> Transit: <b>03:18   82°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Barred Spiral Galaxy NGC-3184 Constellation: Ursa Major Coordinates: RA=10h 18m 17.00s DEC=+41d 25' 24.00" Size=18.5 x 13.9 arcmin Orientation: 41.6deg E of N Pixel scale=0.279 arcsec/pixel FL=2000mm Exposure Info:   36 Frames@2min   Gain: 100   OHSet: 50  </p>
<p><b>NGC-3227 &amp; NGC-3226</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Interacting Galaxies</b></p> <p>Constellation: <b>Leo</b> Coordinates: <b>10h 23' 29"</b> <b>19° 53' 07"</b></p> <p>Close Star: <b>SAO-60178</b> (Castor) Catalog Objects: <a href="#">NGC-3227</a>, <a href="#">NGC-3226</a></p> <p>Imaging Window: <b>12:13 – 06:04</b> Transit: <b>03:23   76°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Ghost of Jupiter</b> (NGC-3242) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Hydra</b> Coordinates: <b>10h 24' 46"</b> <b>-18° 38' 31"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus) Catalog Objects: <a href="#">NGC-3242</a></p> <p>Imaging Window: <b>*01:22 – 05:31</b> Transit: <b>03:24   38°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC-3242 (Ghost of Jupiter) Constellation: Hydra Coordinates: RA=10h 24m 44.7s DEC=-18d 38' 31.4" Size=18.5 x 13.9 arcmin Orientation: 41.6deg E of N Pixel scale=0.279 arcsec/pixel FL=2000mm Exposure Info:   36 Frames@2min   Gain: 100   OHSet: 50  </p>


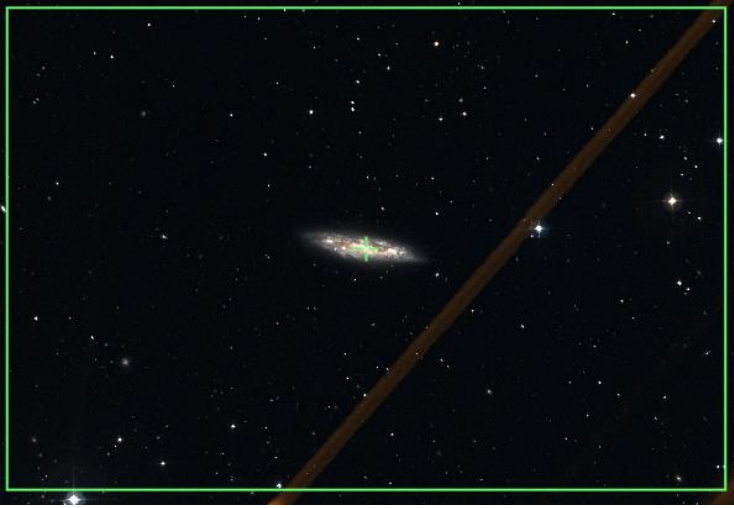

# Prospective Imaging Objects – January 11 2024

<p><b>Galaxy Group 2574</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>10h 28' 40"</b>  <b>68° 26' 14"</b></p> <p>Close Star: <b>SAO-27876</b> (Merak)            Catalog Objects: <a href="#">IC-2574</a></p> <p>Imaging Window: <b>12:11 – 03:28</b>            Transit: <b>03:28   55°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="text-align: center;">FOV 3.81 x 2.54° · RA 10hr 12' 10", DEC 69° 02' 51"</p>
<p><b>Coddington's Nebula (IC-2574)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>10h 28' 40"</b>  <b>68° 26' 14"</b></p> <p>Close Star: <b>SAO-27876</b> (Merak)            Catalog Objects: <a href="#">IC-2574</a></p> <p>Imaging Window: <b>12:11 – 03:28</b>            Transit: <b>03:28   55°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;">Coddington Nebula (IC-2574)  <small>James Yoder   Dated: 2022.04.01 - 2020.04.08   Location: Chandler, AZ   Constellation: Ursa Major   Exposure Info: [200frames@4min   Gain: 3200   Offset: 180]   RA = 10h 28m 41.9s   DEC = -08deg 24' 48.2"   Size = 32.3 x 23.4 arcmin   Orientation: 0.020deg E of N   Pixel scale = 0.452 arcsec/pixel   FL = 2724mm.</small></p>
<p><b>Leo Galaxy Group (M-96, M95 et al.)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxy Grouping</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>10h 47' 23"</b>  <b>12° 23' 59"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)            Catalog Objects: <a href="#">M-96</a>, M95, NGC3389, NGC3384, M105</p> <p>Imaging Window: <b>12:54 – 06:04</b>            Transit: <b>03:43   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="text-align: center;">Galaxy Cluster in Leo  <small>James Yoder. 2018.04.17.</small></p>

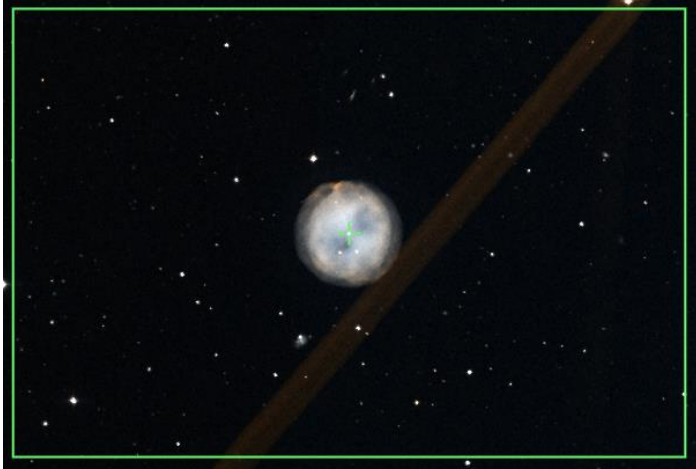


# Prospective Imaging Objects – January 11 2024

<p><b>M-95, M-96</b> (NGC-3351, 3368)            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Galaxy Pair</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>10h 45' 20"</b>  <b>11° 44' 30"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)            Catalog Objects: <a href="#">M-95</a>, M-96</p> <p>Imaging Window: <b>12:54 – 06:04</b>            Transit: <b>03:43   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small; text-align: center;">Galaxy pair M-95(NGC-3351) &amp; M-96(NGC-3368)            Constellation: Leo (the Lion)            J2000: RA: 10h 45m 19.9s DEC: -11deg 44' 27.7" Size: 18.2 x 40 arcmin (Field width: ~0.57 arcmin/pixel)            J2000: RA: 10h 45m 19.9s DEC: -11deg 44' 27.7" Size: 18.2 x 40 arcmin (Field width: ~0.57 arcmin/pixel)            Expresso Info: 2015040204_Cat_0200_Offset_190</p>
<p><b>Leo Trio 2</b> (NGC-3379, 3384, 3389)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Trio of Galaxies</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>10h 48' 07.227"</b>  <b>12° 33' 52.943"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)            Catalog Objects: <a href="#">M-105</a>/NGC3379,            NGC-3384, NGC-3389</p> <p>Imaging Window: <b>12:56 – 06:04</b>            Transit: <b>04:47   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Trio of Galaxies            NGC 3389            NGC 3384            NGC 3379 (M105)            J2000: RA: 10h 48m 07.227s DEC: 12deg 33' 52.943" Size: 18.2 x 40 arcmin (Field width: ~0.57 arcmin/pixel)            J2000: RA: 10h 48m 07.227s DEC: 12deg 33' 52.943" Size: 18.2 x 40 arcmin (Field width: ~0.57 arcmin/pixel)            Expresso Info: 2015040204_Cat_0200_Offset_190</p>
<p><b>Ambartsumian's Knot et al.</b>            (NGC-3561, 3558, 3553, 3550, etc.)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Ursa Major</b>            Coordinates:  <b>11h 10' 43"</b>  <b>28° 41' 41"</b></p> <p>Close Star: <b>SAO-81727</b> (Zosma)            Catalog Objects: <a href="#">NGC-3561</a></p> <p>Imaging Window: <b>12:44 – 06:04</b>            Transit: <b>04:10   85°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – January 11 2024




<p><b>M-108 &amp; NGC-3587</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Irregular Galaxy &amp; Planetary Nebula</b></p> <p>Constellation: <b>Ursa Major</b>            Coordinates:  <b>11h 12' 49"</b>  <b>55° 20' 57"</b></p> <p>Close Star: <b>SAO-27876</b> (Merak)            Catalog Objects: <a href="#">M-108</a>/NGC-3555</p> <p>Imaging Window: <b>12:25 – 06:04</b>            Transit: <b>04:11   68°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p>  <p>M-108 (NGC-3556) and Owl Nebula (M-97, NGC-3587)            Constellation: Ursa Major  <small>[RA = 11h 12m 51.217s, DEC = +55deg 21' 46.199"] Size = 1.91 x 1.28 deg   Pixel scale = 2.28 arcsec/pixel]</small></p> <p>James Yoder 2020.04.03            Config:   C-11HD   HyperStar V4   Astronomik CLS-CCD   QHY126C              Exposure Info:  1477ms@1min   Gain: 3200   Offset: 180   Location: Chandler, AZ</p>
<p><b>M-108 (NGC-3556)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Irregular Galaxy</b></p> <p>Constellation: <b>Ursa Major</b>            Coordinates:  <b>11h 11' 29"</b>  <b>55° 40' 22"</b></p> <p>Close Star: <b>SAO-27876</b> (Merak)            Catalog Objects: <a href="#">M-108</a>/NGC-3555</p> <p>Imaging Window: <b>12:25 – 06:04</b>            Transit: <b>04:11   68°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 
<p><b>Owl Nebula (NGC-3587)</b>            Config:  C11HD ZWO6200MC             Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Ursa Major</b>            Coordinates:  <b>11h 14' 48"</b>  <b>55° 01' 10"</b></p> <p>Close Star: <b>SAO-27876</b>            Catalog Objects: <a href="#">M-97</a>/NGC-3587</p> <p>Imaging Window: <b>12:28 – 06:04</b>            Transit: <b>04:14   68°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p>Owl Nebula (NGC-3587 / M-97)            Constellation: Ursa Major  <small>[RA = 11h 14m 47.22s, DEC = +55deg 01' 10.22"] Size = 0.81 x 0.53 degrees   Pixel scale = 0.482 arcsec/pixel]</small></p> <p>James Yoder 2020.04.03            Config:   C-11 HD   HyperStar V4   Astronomik CLS-CCD   QHY126C              Exposure Info:  1000ms@1min   Gain: 3200   Offset: 180   Location: Chandler, AZ</p>

# Prospective Imaging Objects – January 11 2024

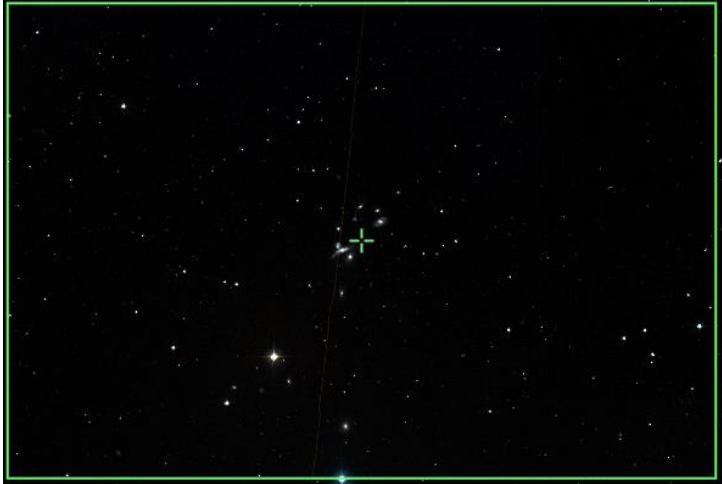


<p><b>Owl Nebula (NGC-3587)</b>            Config:  C11HD <b>Barlow x2</b> ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Constellation: <b>Ursa Major</b>            Coordinates:  <b>11h 14' 48"</b>  <b>55° 01' 10"</b></p> <p>Close Star: <b>SAO-27876</b>            Catalog Objects: <a href="#">M-97</a>/NGC-3587</p> <p>Imaging Window: <b>12:28 – 06:04</b>            Transit: <b>04:14   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus <b>*x2</b></b></p> 
<p><b>Lio Trio of Galaxies</b>            Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Galaxies</b>            Constellation: <b>Leo</b>            Coordinates:            Frame 01            RA: <b>11hr 19' 57"</b>DEC: <b>13° 32' 15"</b>            Frame 02            RA: <b>11hr 19' 57"</b>DEC: <b>13° 04' 57"</b></p> <p>Close Star: <b>SAO-15384</b>            Catalog Objects: <a href="#">NGC-3628</a>, 3623, M-65</p> <p>Imaging Window: <b>01:25 – 06:04</b>            Transit: <b>04:19   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b> Composite!</b></p> 
<p><b>Lio Trio of Galaxies</b>            Config:  C11HD ZWO6200MC             Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>See Targets Below</b></p> <p><i>NOTE: M-65/M-66 &amp; NGC-3628 combined to create mosaic</i></p> <p>Close Star: <b>SAO-98967 (Regulus)</b>            Catalog Objects: <a href="#">NGC-3628</a>, <a href="#">M-65</a></p> <p>Imaging Window: <b>01:25 – 06:04</b>            Transit: <b>04:19   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus <b>Mosaic</b></b></p> 




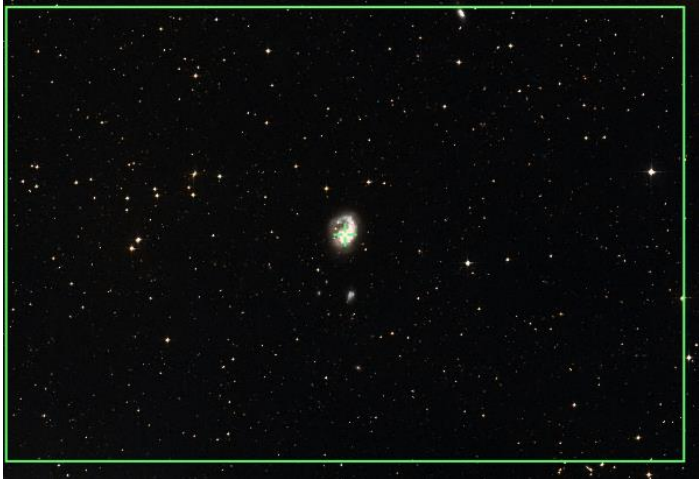

# Prospective Imaging Objects – January 11 2024

<p><b>NGC-3628</b>            Config:  C11HD ZWO6200MC             Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>11h 19' 44"</b>  <b>13° 28' 28"</b></p> <p><i>NOTE: M-65/M-66 &amp; NGC-3628 can be combined to create mosaic</i></p> <p>Close Star: <b>SAO-98967</b> (Regulus)            Catalog Objects: <a href="#">NGC-3628</a>,</p> <p>Imaging Window: <b>01:25 – 06:04</b>            Transit: <b>04:19   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC-3628 Edge-On Galaxy</p> <p style="text-align: right; font-size: x-small;">James Yoder 2015 04 19</p>
<p><b>M-65, M-66</b>            Config:  C11HD ZWO6200MC             Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>11h 19' 44"</b>  <b>13° 04' 06"</b></p> <p><i>NOTE: M-65/M-66 &amp; NGC-3628 can be combined to create mosaic</i></p> <p>Close Star: <b>SAO-98967</b> (Regulus)            Catalog Objects: <a href="#">M-65</a>/NGC-3623, M-66/NGC-3627</p> <p>Imaging Window: <b>01:27 – 06:04</b>            Transit: <b>04:19   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">M-65, M66 Spiral Galaxies</p> <p style="text-align: right; font-size: x-small;">James Yoder 2015 05 19</p>
<p><b>Arp-214</b> (<a href="#">NGC-3718</a>, <a href="#">NGC-3729</a>)            Config:  C11HD ZWO6200MC             Type: <b>Galaxy Pair</b></p> <p>Constellation: <b>Ursa Major</b>            Coordinates:  <b>11h 33' 09"</b>  <b>53° 05' 02"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda)            Catalog Objects: <a href="#">NGC-3718</a></p> <p>Imaging Window: <b>12:45 – 06:04</b>            Transit: <b>04:32   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small;">NGC-3718, NGC-3729            Constellation: Ursa Major            RA = 11h 33m 01.010s DEC = 53°05'04.889" Size = 45 x 30.4 arcmin Pixel scale = 0.440 arcsec/pixel F1.1-2.720mm            James Yoder 2020-02-16            Location: Chandler, AZ            Config:  C-11 HD (Astroworld CLS-CCD) (OVI128x)             Exposure Info: (340min/Frame) (Gain: 3200) (Offset: 180)</p>




# Prospective Imaging Objects – January 11 2024

<p><b>Copeland's Septet</b> (NGC-3746, 3748, 3750, 3751, 3753, 3754) Config:  C11HD ZWO6200MC  Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Leo</b> Coordinates: <b>11h 33' 09"</b> <b>53° 05' 02"</b> Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">NGC-3746</a>, 3748, 3750, 3751, 3753, 3754/HCG-57</p> <p>Imaging Window: <b>01:23 – 06:04</b> Transit: <b>04:37   79°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Abell 1367</b> (NGC-3861, et al.) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Leo</b> Coordinates: <b>11h 44' 40"</b> <b>19° 56' 32"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">NGC-3861</a>, 3842, dozens of others.</p> <p>Imaging Window: <b>01:34 – 06:04</b> Transit: <b>04:44   77°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Wild's Triplet</b> (Arp-248) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Ursa Major</b> Coordinates: <b>11h 46' 41"</b> <b>-03° 51' 46"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda) Catalog Objects: <a href="#">Arp-248</a>, PGC-36742, 36733, 36723</p> <p>Imaging Window: <b>*02:01 – 06:04</b> Transit: <b>04:46   53°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – January 11 2024

<p><b>M-109</b>(<a href="#">NGC-3992</a>) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Ursa Major</b> Coordinates: <b>11h 57' 34"</b> <b>53° 20' 59"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda) Catalog Objects: <a href="#">NGC-3992</a></p> <p>Imaging Window: <b>01:10 – 06:04</b> Transit: <b>04:57   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-4027</b>(<a href="#">PGC-37773</a>) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Corvus</b> Coordinates: <b>11h 59' 31"</b> <b>-19° 15' 57"</b></p> <p>Close Star: <b>SAO-157923</b> (Spica) Catalog Objects: <a href="#">NGC-4027</a></p> <p>Imaging Window: <b>*03:02 – 06:04</b> Transit: <b>04:59   37°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Antennae Galaxies</b> (<a href="#">Arp-244</a>) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Pair</b></p> <p>Constellation: <b>Corvus</b> Coordinates: <b>12h 01' 54"</b> <b>-18° 53' 08"</b></p> <p>Close Star: <b>SAO-157923</b> (Spica) Catalog Objects: <a href="#">Arp-244</a>/ NGC-4038, NGC-4039</p> <p>Imaging Window: <b>*02:56 – 06:04</b> Transit: <b>05:01   38°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

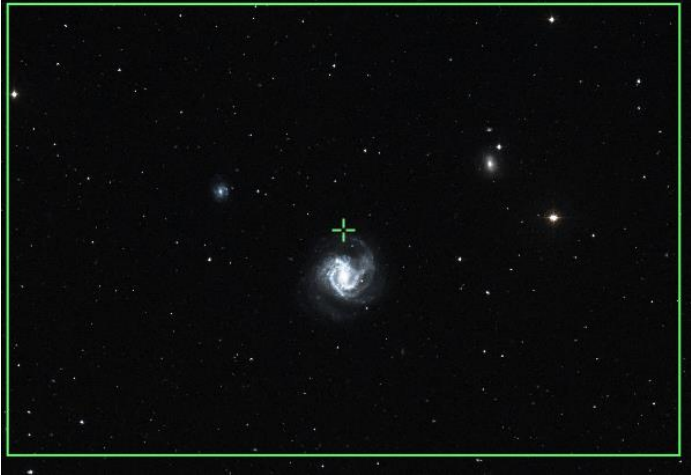

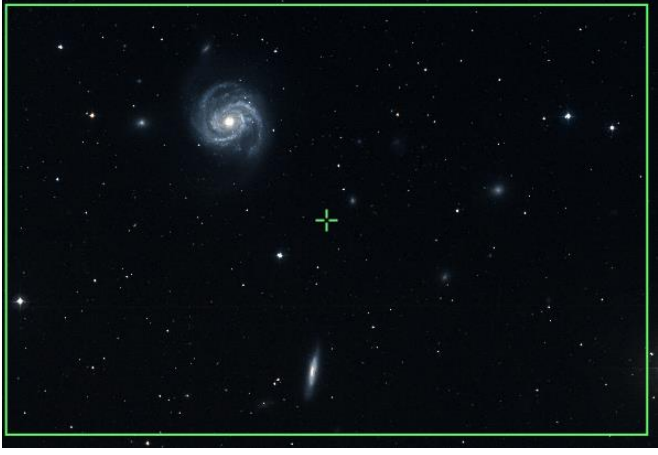
# Prospective Imaging Objects – January 11 2024

<p><b>M-98</b> (NGC-4192) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Cooma Berenices</b> Coordinates: <b>12h 13' 48"</b> <b>14° 53' 58"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">M-98</a>/NGC-4192</p> <p>Imaging Window: <b>02:15 – 06:04</b> Transit: <b>05:13   72°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-4236</b> (UGC 7306) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Draco</b> Coordinates: <b>12h 16' 42"</b> <b>69° 28' 00"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth) Catalog Objects: <a href="#">NGC-4236</a>/UGC-7306</p> <p>Imaging Window: <b>02:05 – 06:04</b> Transit: <b>05:16   54°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Silver Needle</b> (NGC-4244) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Canes Venatici</b> Coordinates: <b>12h 17' 30"</b> <b>37° 48' 28"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">NGC-4244</a>/UGC-7322</p> <p>Imaging Window: <b>01:38 – 06:04</b> Transit: <b>05:16   86°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 



# Prospective Imaging Objects – January 11 2024

<p><b>St. Katherines Wheel</b> (M99/NGC4254) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 18' 49"</b> <b>14° 25' 03"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">M-99</a>/NGC-4254 Imaging Window: <b>02:22 – 06:04</b> Transit: <b>05:18   71°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 
<p><b>Galaxy Group 106</b> Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Canes Venatici</b> Coordinates: <b>12h 17' 12"</b> <b>47° 13' 33"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda) Catalog Objects: <a href="#">M-106</a>, NGC 4248, 4217, 4232, 4331 Imaging Window: <b>01:32 – 06:04</b> Transit: <b>05:18   76°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p>  <p>FOV 3.81 x 2.54° · RA 12hr 13' 18", DEC 46° 41' 37"</p>
<p><b>M-106</b>(NGC-4258) Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Canes Venatici</b> Coordinates: <b>12h 17' 12"</b> <b>47° 13' 33"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda) Catalog Objects: <a href="#">M-106</a>, NGC 4248, 4217, 4232, 4331 Imaging Window: <b>01:32 – 06:04</b> Transit: <b>05:18   76°</b></p>	<p><b>C-11 HD: Focal Reducer</b></p>  <p>M-106 galaxy group Constellation: Canes Venatici</p> <p>2024-01-10 James Webb Lagrange, Charles, AZ Config:  C11 HyperStar v4 Cometcat Antares LDS C11 ZWO Exposure Info: 3700000/1600/1600/1600/1600</p>


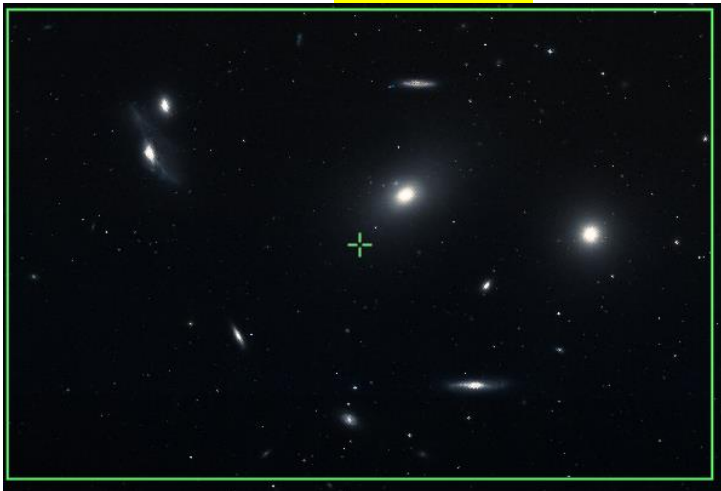

# Prospective Imaging Objects – January 11 2024

<p><b>HII Galaxy</b> (M61/NGC4303) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Face-On Spiral Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 21' 55"</b> <b>04° 31' 28"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-61</a>/NGC-4303, NGC-4292, NGC-4301 Imaging Window: <b>02:57 – 06:04</b> Transit: <b>05:21   61°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Winnecke 4</b>(M-40) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Star Pair</b></p> <p>Constellation: <b>Ursa Major</b> Coordinates: <b>12h 21' 22"</b> <b>58° 03' 05"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda) Catalog Objects: <a href="#">M-40</a>, NGC-4290, NGC-4284 Imaging Window: <b>01:38 – 06:04</b> Transit: <b>05:21   65°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-100</b>(NGC-4303) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Face-On Spiral Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 22' 28"</b> <b>15° 42' 40"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-100</a>/NGC-4321, NGC-4312, 4328, 4322, UGC-7425, IC-783A, Imaging Window: <b>02:22 – 06:04</b> Transit: <b>05:22   72°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – January 11 2024

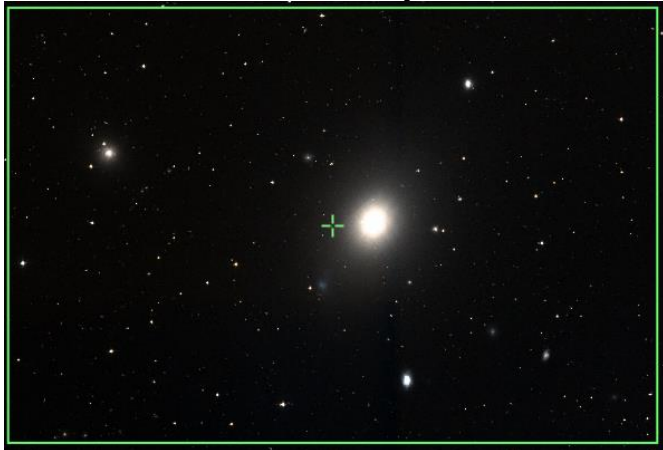


<p><b>NGC-4361</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Corvus</b>            Coordinates:  <b>12h 24' 31"</b>  <b>-18° 47' 03"</b></p> <p>Close Star: <b>SAO-157176</b> (Gienah Corvi)            Catalog Objects: <a href="#">NGC-4361</a>            Imaging Window: <b>03:18 – 06:04</b>            Transit: <b>05:24   38°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Planetary Nebula NGC-6572            Constellation: Delphinus            Coordinates: RA = 18h 24m 31.9s DEC = -18deg 47' 03.0" Star = 21 x 18 pixels (Resolution 0.6g 5.0"/px) Pixel scale = 0.27 pix/arcsec FL=1395mm</p> <p style="font-size: x-small; text-align: right;">James Yoder (Dawson 2023) NGC 6572 (Landscape, Classic, AZ)            Config: C-11 HD Primary Focus (Secondary: ZWO6200MC)            Exposure: 100s   C-11 HyperStar (Gain: 1M) (Gain: 50)</p>
<p><b>Markarian Chain(M-84 Et. Et.)</b>            Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Galaxy cluster</b></p> <p>Constellation: <b>Virgo</b>            Coordinates:  <b>12h 26' 29"</b>  <b>12° 52' 22"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)            Catalog Objects: <a href="#">M-84</a>/NGC-4374, NGC-4388, 4425, 4402, M-86/NGC4406, 4438, 4435, and more            Imaging Window: <b>02:32 – 06:04</b>            Transit: <b>05:24   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: x-small;">Markarian's Chain (of galaxies)            C-11 Hyperstar, #1000iso, 50min</p> <p style="font-size: x-small; text-align: right;">James Yoder            2018.05.15</p>

# Prospective Imaging Objects – January 11 2024




<p><b>Markarian Chain 2</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxy cluster</b></p> <p>Constellation: <b>Virgo</b>            Coordinates:  <b>12h 35' 40"</b>  <b>12° 33' 22"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)            Catalog Objects: <a href="#">M-84</a>/NGC-4374, NGC-4388, 4425, 4402, M-86/NGC4406, 4438, 4435, and more</p> <p>Imaging Window: <b>02:32 – 06:04</b>            Transit: <b>05:24   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="text-align: center;">FOV 3.81 x 2.54° · RA 12hr 31' 35\", DEC 13° 28' 16"</p>
<p><b>Markarian's Chain (M-84)</b>            Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Galaxy cluster</b></p> <p>Constellation: <b>Virgo</b>            Coordinates:  <b>12h 26' 29"</b>  <b>12° 52' 22"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)            Catalog Objects: <a href="#">M-84</a>/NGC-4374, NGC-4388, 4425, 4402, M-86/NGC4406, 4438, 4435</p> <p>Imaging Window: <b>02:32 – 06:04</b>            Transit: <b>05:24   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>NGC-4449 (UGC-7592)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Irregular Galaxy</b></p> <p>Constellation: <b>Canes Venatici</b>            Coordinates:  <b>12h 28' 11"</b>  <b>44° 05' 42"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth)            Catalog Objects: <a href="#">NGC-4449</a>/UGC-7592</p> <p>Imaging Window: <b>01:43 – 06:04</b>            Transit: <b>05:27   79°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 






# Prospective Imaging Objects – January 11 2024

<p><b>M-49</b>(NGC-4472) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Elliptical Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 29' 58"</b> <b>07° 59' 51"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-49/NGC-4472</a> Imaging Window: <b>02:52 – 06:04</b> Transit: <b>05:29   65°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Virgo A</b>(M-87) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Elliptical Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 30' 49"</b> <b>12° 23' 26"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-87/NGC-4486</a> Imaging Window: <b>02:39 – 06:06</b> Transit: <b>05:30   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Cocoon Galaxy</b>(NGC-4490) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Interacting Galaxy Pair</b></p> <p>Constellation: <b>Canes Venatici</b> Coordinates: <b>12h 30' 36"</b> <b>41° 38' 34"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda) Catalog Objects: <a href="#">NGC-4490</a>, NGC-4485 Imaging Window: <b>01:47 – 06:04</b> Transit: <b>05:30   82°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Cocoon Galaxy (NGC-4490 &amp; NGC-4485) James Webb   Dec 01 2023 02:05 - 2023 02:07   Location: Chandler, AZ Config:  C-11 HD Blender Skyline (GHY12k) Constellation: Canes Venatici RA = 12h 30m 35.0s DEC = +41deg 38' 37.8" Size = 36.1 x 24.3 arcmin Orientation = 0.3Mag E of N   Pixel scale = 0.446 arcsecond   FL = 2778mm Exposure Info: 750x3000px - Gain: 3200 - Offset: 100</p>


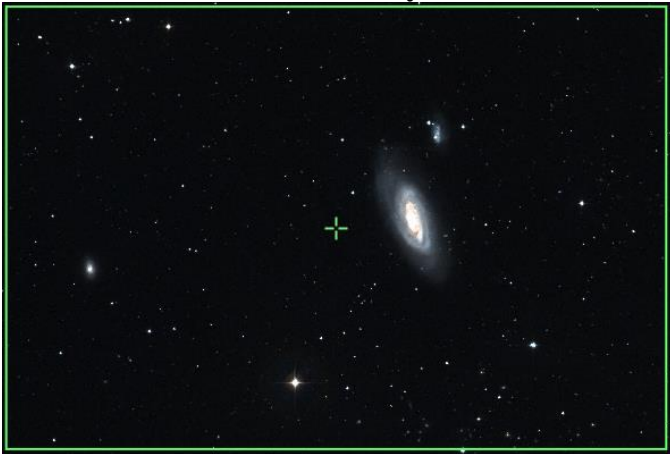

# Prospective Imaging Objects – January 11 2024

<p><b>Lemon Slice Nebula (IC-3568)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Constellation: <b>Camelopardalis</b>            Coordinates:  <b>12h 33' 14"</b>  <b>82° 33' 22"</b></p> <p>Close Star: <b>SAO-8102</b> (Kochab)            Catalog Objects: <a href="#">IC-3568</a>/UGC-7731</p> <p>Imaging Window: *<b>12:38 – 06:06</b>            Transit: <b>05:32   41°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">Planetary Nebula IC-3568            Constellation: Camelopardalis            RA: 12h 33m 14s DEC: 82° 33' 22" (approximate)</p>
<p><b>M-91(NGC-4548)</b>            Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b>            Coordinates:  <b>12h 36' 11"</b>  <b>14° 20' 51"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)            Catalog Objects: <a href="#">M-91</a>/NGC4548,            NGC-4571            Imaging Window: <b>02:38 – 06:04</b>            Transit: <b>05:34   71°</b></p>	<p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b></b></p> <p style="text-align: center; color: green;">FOV 1.04 x 0.70° · RA 12hr 36' 11", DEC 14° 20' 51"</p> 
<p><b>M-91(NGC-4548)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b>            Coordinates:  <b>12h 36' 04"</b>  <b>14° 23' 37"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)            Catalog Objects: <a href="#">M-91</a>/NGC4548,            NGC-4571            Imaging Window: <b>02:38 – 06:04</b>            Transit: <b>05:34   71°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – January 11 2024

<p><b>M-89</b>(NGC-4552) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Elliptical Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 35' 43"</b> <b>12° 24' 24"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-89</a>/NGC4552, NGC-4551, NGC-4550, IC-3574, IC-3586 Imaging Window: <b>02:44 – 06:04</b> Transit: <b>05:35   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-4559</b> (UGC-7766) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 35' 58"</b> <b>27° 57' 35"</b></p> <p>Close Star: <b>SAO-44752</b> (Alkaid) Catalog Objects: <a href="#">NGC-4559</a>/UGC-7766 Imaging Window: <b>02:10 – 06:04</b> Transit: <b>05:35   85°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Siamese Twins</b>(NGC-4567) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Elliptical Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 36' 26"</b> <b>11° 19' 59"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">NGC-4567</a>, NGC-4568, NGC-4564 Imaging Window: <b>02:48 – 06:04</b> Transit: <b>05:35   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – January 11 2024

<p><b>Needle Galaxy</b> (NGC-4565) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Edge-on Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 36' 02"</b> <b>25° 56' 51"</b></p> <p>Close Star: <b>SAO-44752</b> (Alkaid) Catalog Objects: <a href="#">NGC-4565</a>, NGC-4562 Imaging Window: <b>02:13 – 06:04</b> Transit: <b>05:35   83°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p>NGC4565 The Needle Galaxy</p> <p>James Yoder 2017.04.22</p>
<p><b>M-90</b> (NGC-4569) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 37' 11"</b> <b>13° 09' 19"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-90</a>/NGC-4569 IC-3583, NGC-4584 Imaging Window: <b>02:43 – 06:04</b> Transit: <b>05:36   70°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 
<p><b>Galaxy Group 58</b> Config:   C-11HD   HyperStar  </p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 37' 35"</b> <b>12° 18' 56"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-58</a>/NGC-4579 Imaging Window: <b>02:48 – 06:04</b> Transit: <b>05:37   68°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p>  <p>FOV 3.81 x 2.54° · RA 12hr 37' 35", DEC 12° 18' 56"</p>


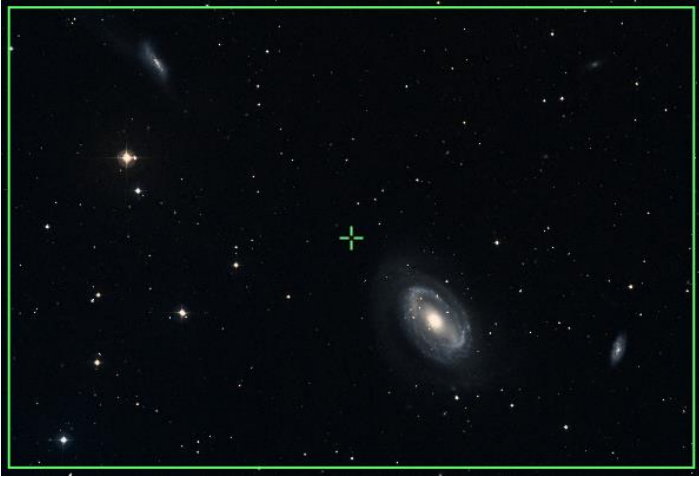
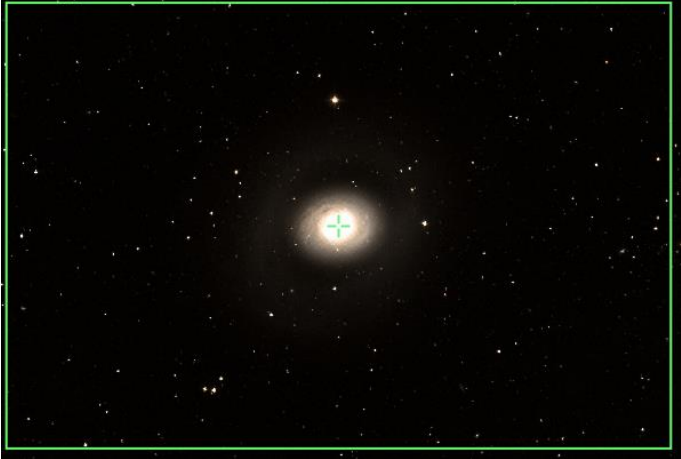
# Prospective Imaging Objects – January 11 2024

<p><b>M-58</b> (NGC-4579) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 37' 44"</b> <b>11° 49' 06"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-58</a>/NGC-4579 Imaging Window: <b>02:48 – 06:04</b> Transit: <b>05:37   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-68</b> (NGC-4590) Config:  C11HD  ZWO6200MC </p> <p>Type: <b>Globular Cluster</b> Constellation: <b>Hydra</b> Coordinates: <b>12h 39' 28"</b> <b>-26° 44' 32"</b></p> <p>Close Star: <b>SAO-180915</b> (Kraz) Catalog Objects: <a href="#">M-68</a>/NGC-4590</p> <p>Imaging Window: <b>*03:57 – 06:04</b> Transit: <b>05:38   30°</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° - Rayleigh limit 0.49"</p>
<p><b>Sombrero Galaxy</b> (M-104) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Edge-on Spiral Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 39' 44"</b> <b>-11° 37' 52"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-104</a>/NGC-4594 Imaging Window: <b>*03:29 – 06:04</b> Transit: <b>05:39   45°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small;">M104: Sombrero Galaxy <span style="float: right;">James Yoder 2015.01.18</span></p>


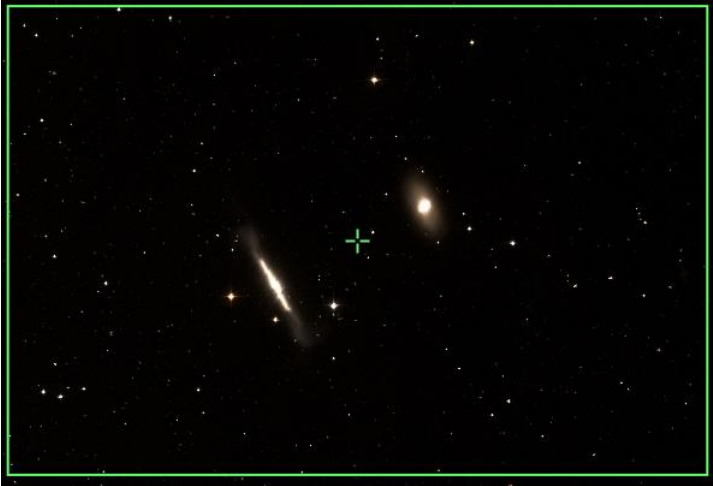
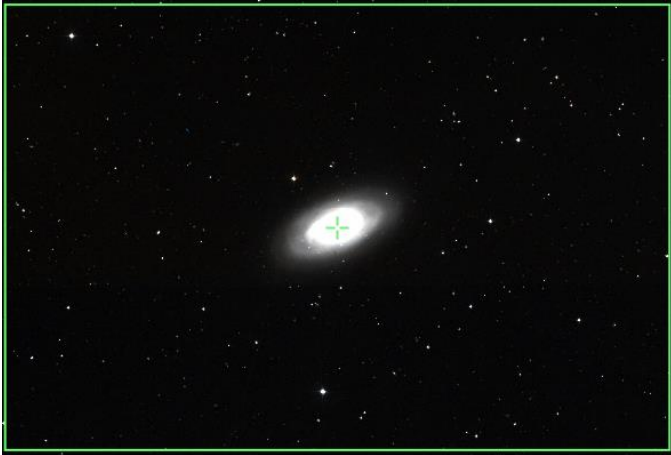
# Prospective Imaging Objects – January 11 2024

<p><b>Whale and Hockey Stick</b> (NGC-4631, NGC-4656) Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Galaxies</b></p> <p>Constellation: <b>Canes Venatici</b> Coordinates: <b>12h 42' 50"</b> <b>32° 20' 54"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">NGC-4631</a>, NGC-4656 Imaging Window: <b>02:09 – 06:04</b> Transit: <b>05:41   89°</b></p>	<p style="text-align: right;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small;">Whale and Hockey Stick Galaxies (NGC4631, NGC4656) Constellation: Canes Venatici</p> <p style="font-size: x-small; text-align: right;">James Yoder 2019/04/04 Location: Mountain View, AZ Config: C11   Starizona L.F. Converter   Bando Skyglow Filter   0111216 Exposure Info: 21 8min/Frame   Gain: 3200   D854   101</p>
<p><b>M-59, M-60 group</b> Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 42' 42"</b> <b>11° 40' 33"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">M-59</a>/NGC-4621, M-60/NGC-4649, NGC-4656, 4647, 4638, 4607, 4606 Imaging Window: <b>02:53 – 06:04</b> Transit: <b>05:41   68°</b></p>	<p style="text-align: right;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small;">Virgo Cluster of Galaxies Constellation: Virgo the virgin</p> <p style="font-size: x-small; text-align: right;">James Yoder   Date(s) 2023 04 30 - 2020 05 16   Location: Chandler, AZ Config: C11-HD   0.7 Reducer   Filter: Bando Skyglow, RGB   Camera: ZWO ASI-6200 Exposure Info: L=84min/Frame, G=136min/Frame, R=128min/Frame, B=146min/Frame   Total = 12hrs 18min Gain: 100   Offset: 50 RA = 12h 42m 40.5s, DEC = +11deg 40' 19.7"   Size = 57.3 x 37.7 arcmin   Orientation = 0.2deg E of N   Pixel scale = 0.785 arcsec/pixel   F1 = 1900mm</p>
<p><b>TheMice</b> (NGC-4676 A &amp; B) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Interacting Galaxies</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 46' 07"</b> <b>30° 43' 43"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">NGC-4676A &amp; B</a> Imaging Window: <b>02:15 – 06:04</b> Transit: <b>05:45   87°</b></p>	<p style="text-align: right;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – January 11 2024

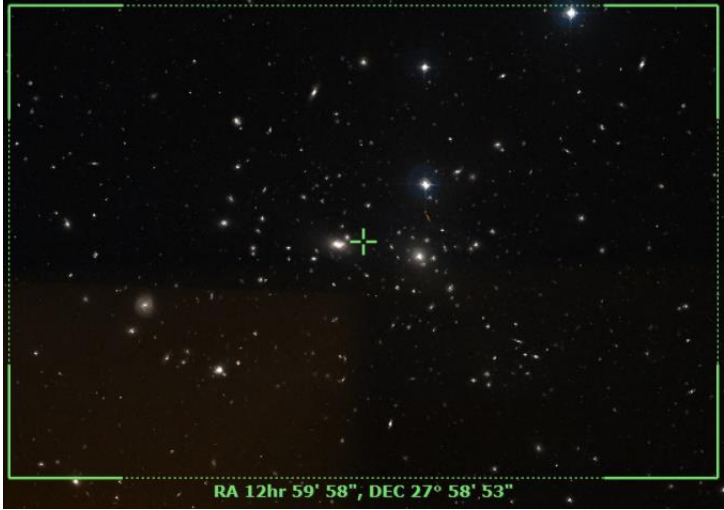

<p><b>NGC-4725</b> (PGC-43451)            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Galaxy group</b></p> <p>Constellation: <b>Coma Berenices</b>            Coordinates:  <b>12h 50' 55"</b>  <b>25° 35' 59"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola)            Catalog Objects: <a href="#">NGC-4725</a>,            NGC-4712, NGC-4747            Imaging Window: <b>02:28 – 06:04</b>            Transit: <b>05:49   82°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small;">Galaxy Cluster NGC-4747, NGC-4725, NGC4712            James Yoder   Date(s) 2021.01.02, 2021.01.03   Location: Chandler, AZ            Config: C11-HD   F7 Reducer   Filter: Baader Skyglow   Camera: QHY120C            [RA = 128.850489; DEC = -25.596667] Size = 44.39 x 29.62 arcmin   Orientation: Mag. E of N   Pixel scale = 0.630 arcsec/pixel   FL = 1953mm</p>
<p><b>NGC-4725</b> (PGC-43451)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy group</b></p> <p>Constellation: <b>Coma Berenices</b>            Coordinates:  <b>12h 50' 50"</b>  <b>25° 35' 23"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola)            Catalog Objects: <a href="#">NGC-4725</a>,            NGC-4712, NGC-4747            Imaging Window: <b>02:28 – 06:04</b>            Transit: <b>05:49   82°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-94</b> (NGC-4736)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Canes Venatici</b>            Coordinates:  <b>12h 50' 53"</b>  <b>41° 07' 17"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth)            Catalog Objects: <a href="#">M-94</a>/NGC-4736            Imaging Window: <b>02:08 – 06:04</b>            Transit: <b>05:50   82°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – January 11 2024

<p><b>NGC-4731</b> (PGC-43507) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 51' 01"</b> <b>-06° 21' 49"</b></p> <p>Close Star: <b>SAO-157923</b> (Spica) Catalog Objects: <a href="#">NGC-4731</a> Imaging Window: *<b>03:13 – 06:04</b> Transit: <b>05:50   50°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-4762, 4754</b> (PGC-43733) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Edge on Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 52' 35"</b> <b>11° 16' 42"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">NGC-4762</a>, NGC-4754 Imaging Window: <b>03:05 – 06:04</b> Transit: <b>05:52   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Black Eye Galaxy</b> (M-64) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 56' 44"</b> <b>21° 40' 59"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">M-64</a>/NGC-4826 Imaging Window: <b>02:42 – 06:04</b> Transit: <b>05:56   78°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 



# Prospective Imaging Objects – January 11 2024

<p><b>Coma Galaxy Cluster</b> (Abell-1656) Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 59' 58"</b> <b>27° 58' 53"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">Abell-1656</a> Imaging Window: <b>02:34 – 06:04</b> Transit: <b>05:59   84°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="text-align: center;">RA 12hr 59' 58", DEC 27° 58' 53"</p>
<p><b>Coma Galaxy Cluster</b> (Abell-1656) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>13h 00' 06"</b> <b>28° 00' 31"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">Abell-1656</a> Imaging Window: <b>02:34 – 06:04</b> Transit: <b>05:59   84°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Galaxy Cluster Abell-1656 Constellation: Coma Berenices RA = 12h 59m 58s, DEC = 27deg 58m 53s, Size = 47 x 37 arcmin, Pixel scale = 0.66 arcsec/pix</p> <p style="font-size: x-small;">James Webb   2024-01-11   Location: San Dimas State Park, AZ Config: C-11 HD 260 Mirror (2024-01-11) Exposure Info: 150sec/Frame, Gain: 3200, Offset: 100</p>

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Page

# Prospective Imaging Objects – January 11 2024

## Imaging Summary January 11, 2022

Astronomical Dusk = 07:07

Astronomical Dawn = 06:04

### HyperStar: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Nebula	Nebula	IC-1848, 1805	07:07 – 11:39	07:52	03	Comp4! Cassiopeia: Heart and Soul Nebula
HyperStar	Nebula	Nebula	IC-1805	07:07 – 11:18	07:33	03	Cassiopeia: Heart Nebula
HyperStar	Nebula	Nebula	IC-1848	07:07 – 11:39	07:52	06	Cassiopeia: Soul Nebula
HyperStar	Nebula	Nebula	NGC-1499	07:07 – 12:48	09:04	09	Perseus: California Nebula
HyperStar	Nebula	Nebula	IC-405	07:07 – 01:59	10:18	13	Auriga: Flaming Star Nebula
HyperStar	Nebula	Nebula	M-42	09:02 – 12:15	10:35	17	Orion: Comp6! Orion Complex
HyperStar	Nebula	Nebula	M-42	09:02 – 12:15	10:35	17	Orion: Orion Nebula
HyperStar	Nebula	Nebula	SH2-240	07:15 – 02:14	10:41	19	Orion: Comp2! & Rotation90 Simeis-147
HyperStar	Nebula	Nebula	SH2-240	07:15 – 02:14	10:41	19	Orion: Simeis-147
HyperStar	Nebula	Nebula	NGC-2024, B33	08:46 – 12:44	10:42	20	Orion: Flame and Horsehead Nebula
HyperStar	Nebula	Nebula	LDN-1622	08:41 – 01:14	10:55	23	Orion: Comp2! LDN-1622 Complex
HyperStar	Nebula	Nebula	LDN-1622 R1	08:41 – 01:14	10:55	23	Orion: LDN-1622 Region 01
HyperStar	Nebula	Nebula	LDN-1622 R2	08:41 – 01:14	10:55	23	Orion: LDN-1622 Region 02
HyperStar	Nebula	Nebula	LDN-1622 R3	08:41 – 01:14	10:55	24	Orion: LDN-1622 Region 03
HyperStar	Nebula	Nebula	IC-2162, SH2-261	08:08 – 02:15	11:09	26	Orion: Rot90 Orion: Nebula
HyperStar	Nebula	Nebula	IC-443	08:01 – 02:40	11:18	28	Gemini: Jellyfish Nebula
HyperStar	Nebula	Nebula	NGC-2237	09:04 – 02:04	11:31	30	Monoceros: Rosette Nebula
HyperStar	Nebula	Nebula	IC-2169	08:46 – 02:22	11:31	31	Monoceros: Nebula Complex
HyperStar	Nebula	Nebula	IC-2177	*09:47-02:28	12:04	34	Rot90 Monoceros: Seagull Nebula

# Prospective Imaging Objects – January 11 2024

## Imaging Summary January 11, 2022

Astronomical Dusk = 07:07

Astronomical Dawn = 06:04

### HyperStar: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Broad Spectrum	OC	NGC-869, 884	07:07 – 11:13	07:23	02	Perseus: Hand chi Persei Open Cluster Pair
HyperStar	Broad Spectrum	Refl Neb	M-45	07:07 – 12:12	08:47	08	Taurus: Pleiades Open Cluster
HyperStar	Broad Spectrum	OC	C-41	07:07 – 12:40	09:30	10	Taurus: Hyades Open Cluster
HyperStar	Broad Spectrum	DN	IC-2118	*07:35-12:38	10:02	11	Eridanus: Witch Head Nebula
HyperStar	Broad Spectrum	BN	NGC-1788	08:20 – 12:00	10:07	12	Orion: Foxface Nebula
HyperStar	Broad Spectrum	OC	NGC-2632	10:30 – 04:56	01:40	40	Cancer: Beehive Cluster
HyperStar	Broad Spectrum	Galaxies	M-81 & M-82	11:45 – 06:04	02:55	41	Ursa Major: Galaxy Pair M-81 & M-82
HyperStar	Broad Spectrum	Galaxies	IC-2574	12:11 – 03:28	03:28	45	Leo: Galaxy Group 2574
HyperStar	Broad Spectrum	Galaxies	M-96, 95 Et EI	12:54 – 06:04	03:43	45	Leo: Leo Galaxy Group
HyperStar	Broad Spectrum	Gal, PN	M180 & NGC3587	12:25 – 06:04	04:11	47	Ursa Major: M104 and Owl Nebula
HyperStar	Broad Spectrum	Galaxies	Galaxy Group 106	01:32 – 06:04	05:18	53	Canes Venatici: Galaxy Group M-106
HyperStar	Broad Spectrum	Galaxies	Markarian Chain	02:32 – 06:04	05:24	55	Virgo: Galaxy Chain
HyperStar	Broad Spectrum	Galaxies	Markarian Chain2	02:32 – 06:04	05:24	55	Virgo: Galaxy Chain2
HyperStar	Broad Spectrum	Galaxies	Galaxy Group 58	02:48 – 06:04	05:37	60	Virgo Galaxy Group M-58

# Prospective Imaging Objects – January 11 2024

## Imaging Summary January 11, 2022

Astronomical Dusk = 07:07

Astronomical Dawn = 06:04

### Focal Reducer: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Nebula	Nebula	IC-1795	07:07 – 11:10	07:26	03	Cassiopeia: Fish Head Nebula
Focal Reducer	Nebula	Nebula	IC-1805	07:07 – 11:18	07:33	04	Cassiopeia: Heart Nebula RIO
Focal Reducer	Nebula	Nebula	IC-405	07:07 – 01:59	10:18	13	Auriga: Flaming Star Nebula
Focal Reducer	Nebula	Nebula	IC-410	07:07 – 02:03	10:22	14	Auriga: Tadpoles
Focal Reducer	Nebula	Nebula	NGC1055,1931	07:07 – 02:10	10:28	15	Comp2! Rot90° Auriga: The Spider and The Fly
Focal Reducer	Nebula	Nebula	NGC-1977	08:58 – 12:19	10:35	18	Orion: Running Man Nebula
Focal Reducer	Nebula	Nebula	NGC-2170	09:03 – 01:17	11:08	25	Monoceros: Angle Nebula
Focal Reducer	Nebula	Nebula	SH 2-261	08:08 – 02:15	11:09	26	Orion: Lower's Nebula
Focal Reducer	Nebula	Nebula	NGC-2174	07:58 – 02:28	11:10	27	Orion: Monkey Head Nebula
Focal Reducer	Nebula	Nebula	IC-443	08:01 – 02:40	11:18	28	Compsite2! Gemini: Jellyfish Nebula
Focal Reducer	Nebula	Nebula	NGC-2237	09:04 – 02:04	11:31	30	Monoceros: Rosette Nebula ROI
Focal Reducer	Nebula	Nebula	IC-2169	08:46 – 02:22	11:31	31	Monoceros: Blue Nebula IC-2169
Focal Reducer	Nebula	Nebula	NGC-2264	08:57 – 02:31	11:41	32	Composite2! Monoceros: Xmas tree & Cone Neb
Focal Reducer	Nebula	Nebula	NGC-2264	08:57 – 02:31	11:41	32	Rot90° Monoceros: Xmas tree & Cone Neb

# Prospective Imaging Objects – January 11 2024

## Imaging Summary January 11, 2022

Astronomical Dusk = 07:07

Astronomical Dawn = 06:04

### Focal Reducer: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Broad Spectrum	Galaxies	M-77, NGC-1055	07:07 – 09:55	07:42	04	Cetus: Galaxy Pair
Focal Reducer	Broad Spectrum	DN/RN	NGC-1788	08:20 – 12:00	10:07	12	Orion: Foxface Nebula
Focal Reducer	Nebula	Nebula	M-78	08:41 – 12:59	10:47	21	Comp2! Orion: Dark Nebula Region
Focal Reducer	Nebula	Nebula	M-78	08:41 – 12:59	10:47	22	Orion: Dark Nebula Region
Focal Reducer	Broad Spectrum	DN	LDN-1622	08:41 – 01:14	10:55	24	Comp2! Rot90° Orion: Dark Nebula Region
Focal Reducer	Broad Spectrum	DN	LDN-1622	08:41 – 01:14	10:55	24	Orion: Dark Nebula Region
Focal Reducer	Broad Spectrum	OC	M-35, NGC-2158	07:49 – 02:35	11:09	27	Gemini: Open Cluster Pair
Focal Reducer	Broad Spectrum	Galaxies	UGC-3697	08:08 – 04:19	12:11	35	Camelopardalis: Integral Sign Galaxy
Focal Reducer	Broad Spectrum	Galaxies	M-81 & M-82	11:45 – 06:04	02:55	41	Rot90° Ursa Major: Galaxy Pair Bode's Cigar
Focal Reducer	Broad Spectrum	Galaxies	M-95 & M-96	12:54 – 06:04	03:43	46	Leo: Galaxy Pair
Focal Reducer	Broad Spectrum	Galaxies	M65, et. El.	01:25 – 06:04	04:19	48	Leo Trio of galaxies (M65, M66, NGC3628)
Focal Reducer	Broad Spectrum	Galaxies	M-106, NGC4248	01:32 – 06:04	05:18	53	Canes Venatici: Galaxies
Focal Reducer	Broad Spectrum	Galaxies	M-84 et. El.	02:32 – 06:04	05:24	56	Virgo: Markarians Chain
Focal Reducer	Broad Spectrum	Galaxies	M-91, NGC4548	02:38 – 06:04	05:34	58	Coma Berenices: Galaxy Pair
Focal Reducer	Broad Spectrum	Galaxies	NGC4631, 4656	02:09 – 06:04	05:41	62	Canes Venatici: Whale and Hockey Stick
Focal Reducer	Broad Spectrum	Galaxies	M-69, M-60	02:53 – 06:04	05:41	62	Virgo: Galaxy Group
Focal Reducer	Broad Spectrum	Galaxies	NGC-4725 et. El.	02:28 – 06:04	05:49	63	Coma Berenices Galaxy Group
Focal Reducer	Broad Spectrum	Galaxies	Abell-1656	02:34 – 06:04	05:59	65	Coma Berenices: Coma Galaxy Cluster

# Prospective Imaging Objects – January 11 2024

## Imaging Summary January 11, 2022

Astronomical Dusk = 07:07

Astronomical Dawn = 06:04

### Primary Focus: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	Nebula	IC-1805	07:07 – 11:18	07:33	04	Cassiopeia: Heart Nebula Core
Primary Focus	Nebula	Nebula	IC-1848	07:07 – 11:39	07:52	06	Cassiopeia: Soul Nebula Core
Primary Focus	Nebula	Nebula	NGC-1333	07:07 – 12:07	08:30	07	Perseus: Bright Nebula
Primary Focus	Nebula	Nebula	NGC-1360	*07:07-10:31	08:34	07	Fornax: Robins Egg Nebula
Primary Focus	Nebula	Nebula	IC-348	07:07 – 12:33	08:45	07	Perseus: Nebula
Primary Focus	Nebula	Nebula	NGC-1501	07:07 – 12:53	09:07	09	Camelopardalis: Oyster Nebula
Primary Focus	Nebula	Nebula	NGC-1514	07:07 – 12:46	09:10	09	Taurus: Crystal Ball Nebula
Primary Focus	Nebula	Nebula	NGC-1535	*07:13-11:21	09:15	10	Eridanus: Cleopatra's Eye
Primary Focus	Nebula	Nebula	NGC-1555	07:07 – 12:38	09:22	10	Taurus: Hind's Variable Nebula
Primary Focus	Nebula	Nebula	NGC-1579	07:07 – 10:13	09:30	11	Perseus: Trifid of the North
Primary Focus	Nebula	Nebula	IC-405	07:07 – 01:59	10:18	13	Auriga: Flaming Star Nebula Core
Primary Focus	Nebula	Nebula	IC-410	07:07 – 02:03	10:22	14	Auriga: Tadpoles
Primary Focus	Nebula	PN	IC-418	*08:24-12:38	10:28	15	Lepus: Spirograph Nebula
Primary Focus	Nebula	Nebula	IC-417	07:07 – 02:10	10:28	15	Auriga: The Spider
Primary Focus	Nebula	Nebula	NGC-1931	07:07 – 02:13	10:31	16	Auriga: The Fly
Primary Focus	Nebula	Nebula	M-1	07:19 – 01:56	10:35	16	Taurus: Crab Nebula
Primary Focus	Nebula	Nebula	M-42	09:02 – 12:15	10:35	18	Orion: The Orion Nebula
Primary Focus	Nebula	Nebula	NGC-2024	08:46 – 12:44	10:42	20	Orion: Flame Nebula
Primary Focus	Nebula	Nebula	B-33	08:49 – 12:39	10:41	20	Orion: Horsehead Nebula B-33
Primary Focus	Nebula	Nebula	NGC-2022	08:01 – 01:30	10:42	21	Orion: Small Planetary Nebula
Primary Focus	Nebula	Nebula	NGC-2170	09:03 – 01:17	11:08	25	Monoceros: Angle Nebula
Primary Focus	Nebula	Nebula	SH 2-261	08:08 – 02:15	11:09	26	Orion: Lower's Nebula Core
Primary Focus	Nebula	Nebula	NGC-2174	07:58 – 02:28	11:10	27	Orion: Monkey Head Nebula Core
Primary Focus	Nebula	Nebula	IC-2162	08:07 – 02:25	11:13	28	Orion: Bright Nebula blots

# Prospective Imaging Objects – January 11 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	Nebula	IC-443	08:01 – 02:40	11:18	29	Gemini: Jellyfish Nebula Core
Primary Focus	Nebula	Nebula	SH 2-249	08:01 – 02:42	11:19	29	Gemini: Diffuse Nebula IC-444
Primary Focus	Nebula	PN	IC-2165	*09:19-01:33	11:22	29	Canis Major: Small Planetary
Primary Focus	Nebula	DN	NGC-2237	09:04 – 02:04	11:31	30	Monoceros: Rosette Nebula Core
Primary Focus	Nebula	BN	IC-2169	08:46 – 02:22	11:31	31	Monoceros: Blue Nebula IC-2169
Primary Focus	Nebula	RN	NGC-2261	08:59 – 02:26	11:39	32	Monoceros: Hubble’s Variable Nebula
Primary Focus	Nebula	Nebula	NGC-2264	08:57 – 02:31	11:41	33	Monoceros: Christmas Tree Cluster
Primary Focus	Nebula	Nebula	NGC-2264 R1	08:57 – 02:31	11:41	33	Monoceros: Cone Nebula
Primary Focus	Nebula	Nebula	IC-2177	*09:47-02:28	12:04	34	Monoceros: Seagull Nebula Head
Primary Focus	Nebula	Nebula	NGC-2346	*09:36-02:45	12:09	35	Monoceros: Hourglass Nebula
Primary Focus	Nebula	Nebula	NGC-2359	*10:20-02:23	12:18	36	Canis Major: Thor’s Helmet
Primary Focus	Nebula	Nebula	NGC-2371	08:57 – 04:00	12:25	36	Gemini: Candy Wrapper Nebula
Primary Focus	Nebula	Nebula	Abell-21	09:36 – 03:29	12:29	36	Gemini: Medusa Nebula
Primary Focus	Nebula	Nebula	NGC-2392	09:16 – 03:48	12:29	37	Gemini: Eskimo Nebula
Primary Focus	Nebula	PN	M-46	*10:53-02:34	12:42	38	Puppis: Open Cluster with PN
Primary Focus	Nebula	Nebula	NGC-2440	*10:37-02:51	12:42	38	Puppis: Bow-Tie Nebula
Primary Focus	Nebula	PN	NGC-2610	*11:54-03:18	01:33	39	Hydra: Small PN
Primary Focus	Nebula	PN	NGC-3242	*01:22-05:31	03:24	44	Hydra: Ghost of Jupiter
Primary Focus	Nebula	PN	NGC-3587	12:28 – 06:04	04:14	47	Ursa Major: Owl Nebula
Primary Focus	Nebula	PN	NGC-4361	03:18 – 06:04	05:24	55	Corvus: Small Planetary Nebula
Primary Focus	Nebula	PN	IC-3568	*12:38-06:06	05:32	58	Camelopardalis: Small PN



# Prospective Imaging Objects – January 11 2024

## Imaging Summary January 11, 2022

Astronomical Dusk = 07:07

Astronomical Dawn = 06:04

### Primary Focus: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	NGC-891	07:07 – 11:13	07:23	02	Andromeda: Edge On Galaxy NGC-891
Primary Focus	Broad Spectrum	Galaxy	NGC-925	07:07 – 11:08	07:28	02	Triangulum: Face On Galaxy PGC-9332
Primary Focus	Broad Spectrum	Galaxy	NGC-1055	07:07 – 09:55	07:42	05	Cetus: Edge on Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-77	07:07 – 09:54	07:43	05	Cetus: Face On Galaxy NGC-1068
Primary Focus	Broad Spectrum	OC	M-34	07:07 – 11:33	07:43	05	Perseus: Open Cluster NGC-1039
Primary Focus	Broad Spectrum	Galaxies	Abell-426	07:07 – 12:09	08:20	06	Perseus: Perseus Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxy	IC-342	07:07 – 12:12	08:47	08	Camelopardalis: Face On Galaxy
Primary Focus	Broad Spectrum	OC	M-45	07:07 – 12:12	08:47	08	Taurus: Pleiades Core
Primary Focus	Broad Spectrum	DN	IC-2118	*07:35-12:38	10:02	11	Eridanus: Witch Head Nebula ROI
Primary Focus	Broad Spectrum	DN	NGC-1788	08:20 – 12:00	10:07	12	Orion: Foxface Nebula ROI
Primary Focus	Broad Spectrum	GC	M-79	*08:19-12:33	10:24	14	Lepus: Med Globular Cluster NGC-1904
Primary Focus	Broad Spectrum	OC	M-38	07:07 – 02:12	10:29	16	Auriga: starfish Cluster
Primary Focus	Broad Spectrum	OC	M-36	07:07 – 02:18	10:36	18	Auriga: Pinwheel Cluster NGC-1960
Primary Focus	Broad Spectrum	Galaxy	NGC-1961	07:30 – 02:01	10:42	21	Camelopardalis: Small Galaxy
Primary Focus	Broad Spectrum	DN, BN	M-78	08:41 – 12:59	10:47	22	Orion: Bright and Dark Nebula
Primary Focus	Broad Spectrum	OC	M-37	07:19 – 02:32	10:52	22	Auriga: Sale and Pepper Cluster
Primary Focus	Broad Spectrum	DN	LDN-1622	08:41 – 01:14	10:55	25	Orion: Dark Nebula & Bright Nebula
Primary Focus	Broad Spectrum	OC	M-41	*10:04-01:39	11:46	33	Canis Major: Open Cluster NGC-2287
Primary Focus	Broad Spectrum	OC	M-50	*10:09-02:01	12:03	34	Monoceros: Open Cluster NGC-2323
Primary Focus	Broad Spectrum	Galaxies	UGC-3697	08:08 – 04:19	12:11	35	Camelopardalis: Integral Sign Galaxy UGC-3697
Primary Focus	Broad Spectrum	OC	M-47	*10:42-02:34	12:36	37	Puppis: Open Cluster NGC-2422
Primary Focus	Broad Spectrum	Galaxy	NGC-2403	09:08 – 04:12	12:37	37	Camelopardalis: Barred Spiral Face on Galaxy
Primary Focus	Broad Spectrum	GC	NGC-2419	08:57 – 04:25	12:38	38	Lynx: Intergalactic Wanderer

# Prospective Imaging Objects – January 11 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	OC	M-93	*10:26-02:56	12:44	39	Puppis: Butterfly Cluster NGC-2447
Primary Focus	Broad Spectrum	OC	M-48	*11:04-03:29	01:13	39	Hydra: Open Cluster NGC-2548
Primary Focus	Broad Spectrum	OC	M-67	11:01 – 04:47	01:51	40	Cancer: Open Cluster NGC-2682
Primary Focus	Broad Spectrum	Galaxy	NGC-2685	10:12 – 05:45	01:55	40	Ursa Major: Helix Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-2903	11:18 – 05:52	02:32	41	Leo: Med Face On Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-81	11:41 – 06:04	02:55	42	Ursa Major: Bode's Nebula
Primary Focus	Broad Spectrum	Galaxy	M-82	11:45 – 06:04	02:55	42	Ursa Major: Cigar Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-3115	*12:33-05:42	03:05	42	Sextans: Spindle Galaxy
Primary Focus	Broad Spectrum	Galaxy	UGC-5470	12:17 – 06:04	03:08	43	Leo: Powder keg Galaxy UGC-5470
Primary Focus	Broad Spectrum	Galaxies	NGC-3166, 3169	12:53 – 05:41	03:13	43	Sextans: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	Hickson 44	12:03 – 06:04	03:17	43	Leo: Galsxy Group NGC-3190, 3189
Primary Focus	Broad Spectrum	Galaxy	NGC-3184	11:35 – 06:04	03:18	44	Ursa Major: Med Face On Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-3227, 3226	12:13 – 06:04	03:23	44	Leo: Interacting Galaxies
Primary Focus	Broad Spectrum	Galaxy	IC-2574	12:11 – 03:28	03:28	45	Leo: Coddington's Nebula
Primary Focus	Broad Spectrum	Galxies	NGC-3379 et. El.	12:54 – 06:04	04:47	46	Leo: Leo Trio 2 of galaxies
Primary Focus	Broad Spectrum	Galaxies	NGC-3561 et. El	12:44 – 06:04	04:10	46	Ursa Major: Abartsumian's Knot et. El.
Primary Focus	Broad Spectrum	Galaxy	M-108	12:25 – 06:04	04:11	47	Ursa Major: Irregular Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-3628	01:25 – 06:04	04:19	49	Leo: Edge on Galalaxy
Primary Focus	Broad Spectrum	Galaxies	M-65, M-66	01:27 – 06:04	04:19	49	Leo: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	Arp-214	12:45 – 06:04	04:32	49	Ursa Major: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	NGC-3745 et. El	01:23 – 06:04	04:37	50	Leo: Copeland's Septet
Primary Focus	Broad Spectrum	Galaxies	Abell-1367	01:34 – 06:04	04:44	50	Leo: Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxies	Arp-248	*02:01-06:04	04:46	50	Ursa Major: Wild's Triplet
Primary Focus	Broad Spectrum	Galaxy	M-109	01:10 – 06:04	04:57	51	Ursa Major: Face on med spiral galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4027	*03:02-06:04	04:59	51	Corvus: Irregular galaxy
Primary Focus	Broad Spectrum	Galaxies	Arp-244	*02:56-06:04	05:01	51	Corvus: Antennae Galaxies
Primary Focus	Broad Spectrum	Galaxy	M-98	02:15 – 06:04	05:13	52	Cooma Beerenices: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4236	02:05 – 06:04	05:16	52	Draco: Spiral Galaxy

# Prospective Imaging Objects – January 11 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	NGC-4244	01:38 – 06:04	05:16	52	Canes Venatici: Silver Needle
Primary Focus	Broad Spectrum	Galaxy	M-99	02:22 – 06:04	05:18	53	Coma Berenices: sm Face on Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-61	02:57 – 06:04	05:21	54	Virgo: Face on Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	M-40	01:38 – 06:04	05:21	54	Ursa Major: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	M-100	02:22 – 06:04	05:22	54	Coma Berenices: Set of Galaxies
Primary Focus	Broad Spectrum	Galaxy	NGC-4449	01:43 – 06:04	05:27	56	Canes Venatici: Interesting Irregular Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-49	02:52 – 06:04	05:29	57	Virgo: Elliptical Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-87	02:39 – 06:06	05:30	57	Virgo: Virgo A Elliptical Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-4490	01:47 – 06:04	05:30	57	Canes Venatici: Interacting Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	M-91	02:38 – 06:04	05:34	58	Coma Berenices: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	M-89 et. El	02:44 – 06:04	05:35	59	Virgo: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	NGC-4559	02:10 – 06:04	05:35	59	Coma Berenices: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-4567	02:48 – 06:04	05:35	59	Virgo: Siamese Twins et. El.
Primary Focus	Broad Spectrum	Galaxy	NGC-4565	02:13 – 06:04	05:35	60	Coma Berenices: Needle Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-90	02:43 – 06:04	05:36	60	Virgo: Med Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-58	02:48 – 06:04	05:37	61	Virgo: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Globular	M-68	*03:57-06:04	05:38	61	Hydra: Med Globular
Primary Focus	Broad Spectrum	Galaxy	M-104	*03:29-06:04	05:39	61	Virgo: Sombrero Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4676 A&B	02:15 – 06:04	05:45	62	Coma Berenices: The Mice
Primary Focus	Broad Spectrum	Galaxies	NGC-4725	02:28 – 06:04	05:49	63	Coma Berenices: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	M-94	02:08 – 06:04	05:50	63	Canes Venatici: Med Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4731	*03:13-06:04	05:50	64	Virgo: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-4762, 4754	03:05 – 06:04	05:52	64	Virgo: Edge on and other Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-64	02:42 – 06:04	05:56	64	Coma Berenices: Black Eye Galaxy
Primary Focus	Broad Spectrum	Galaxies	Abell-1656	02:34 – 06:04	05:59	65	Coma Berenices: Coma Galaxy Cluster

# Prospective Imaging Objects – January 11 2024

## Imaging Summary January 11, 2022

Astronomical Dusk = 07:07

Astronomical Dawn = 06:04

### Primary Prospects

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	HyperStar	Nebula	Nebula	IC-1848	07:07 – 11:39	07:52	03	<b>Comp4!</b> Cassiopeia: Heart & Soul Nebulas
	HyperStar	Nebula	Nebula	IC-1805	07:07 – 11:18	07:33	03	Cassiopeia: Heart Nebula
	HyperStar	Nebula	Nebula	NGC-1499	07:07 – 12:48	09:04	09	Perseus: California Nebula (Redo)
	HyperStar	Nebula	Nebula	M-42	09:02 – 12:15	10:35	17	Orion: The Orion Nebula
	HyperStar	Nebula	Nebula	SH2-240	07:15 – 02:14	10:41	19	<b>Rot-Comp2</b> Taurus: Simeis 147
	HyperStar	Nebula	Nebula	LDN-1622	08:41 – 01:14	10:55	23	<b>Comp2!</b> LDN 1622 Complex
	HyperStar	Nebula	Nebula	IC-2162, SH2-261	08:08 – 02:15	11:09	26	<b>Rotation</b> Orion: Nebula Pair
	HyperStar	Nebula	Nebula	IC-2169	08:46 – 02:22	11:31	31	Monoceros: IC-2169 Nebula
	HyperStar	Broadband	Galaxies	M-106 et. El	01:32 - 06:04	05:18	53	Canes Venatici: Galaxy Group 106
	HyperStar	Broadband	Galaxies	M-84 Et. El	02:32 – 06:04	05:24	56	Virgo: Markarian Chain 2
	Focal Reducer	Nebula	Nebula	IC-1805	07:07 – 11:18	07:33	04	Cassiopeia: Heart Nebula Core (Redo)
	Focal Reducer	Nebula	Nebula	NGC-1788	08:20 – 12:00	10:07	12	Orion: Foxface Nebula
	Focal Reducer	Nebula	Nebula	NGC-1977	08:58 – 12:19	10:35	18	Orion: Running Man Nebula
	Focal Reducer	Nebula	Nebula	M-78	08:41 – 12:59	10:47	21	<b>Comp2!</b> Orion: Dark & Bright Nebula
	Focal Reducer	Nebula	Nebula	LDN-1622	08:41 – 01:14	10:55	24	<b>Rot-Comp2</b> Orion: Dark Nebula
	Focal Reducer	Nebula	Nebula	SH 2-261	08:08 – 02:15	11:09	26	Orion: Lower's Nebula
	Focal Reducer	Nebula	Nebula	NGC-2174	07:58 – 02:28	11:10	27	Orion: Monkey Head Nebula
	Focal Reducer	Nebula	Nebula	IC-443	08:01 – 02:40	11:18	28	<b>Comp2!</b> Gemini: Jellyfish Nebula
	Focal Reducer	Nebula	Nebula	NGC-2237	09:04 – 02:04	11:31	30	Monoceros: Rosette Nebula Core
	Focal Reducer	Nebula	Nebula	IC-2169	08:46 – 02:22	11:31	31	Monoceros: Blue Nebula
	Focal Reducer	Nebula	Nebula	NGC-2264	08:57 – 02:31	11:41	32	<b>Rot</b> Monoceros: Xmas Tree & Cone
	Focal Reducer	Broadband	Galaxies	M-81, M-82	11:45 – 06:04	02:55	41	<b>Rot</b> Ursa Major: Bode's Cigar
	Focal Reducer	Broadband	Galaxies	Abell 1367	01:34 – 06:04	04:44	50	Leo: Galaxy Cluster
	Focal Reducer	Broadband	Galaxies	M-84 et. El.	02:32 – 06:04	05:24	56	Virgo: Markarian's Chain

# Prospective Imaging Objects – January 11 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Primary Focus	Broadband	Galaxies	Abell-426	07:07 – 12:09	08:20	06	Perseus: Perseus Galaxy Cluster
	Primary Focus	Nebula	PN	NGC-1360	*07:07-10:31	08:34	07	Fornax: Robins Egg Nebula
	Primary Focus	Nebula	Nebula	IC-348	07:07 – 12:33	08:45	07	Perseus: Bright Nebula
	Primary Focus	Broadband	Galaxy	IC-342	07:07 – 12:12	08:47	08	Camelopardalis: Large Face On galaxy
	Primary Focus	Nebula	Nebula	NGC-1579	07:07 – 01:13	09:30	11	Perseus: Trifid of the north
	Primary Focus	Nebula	Nebula	IC-405	07:07 – 01:59	10:18	13	Auriga: Flaming Star Nebula
	Primary Focus	Broadband	GC	M-79	*08:19-12:33	10:24	14	Lepus: Med Globular NGC-1904
	Primary Focus	Nebula	PN	IC-418	*08:24-12:38	10:28	15	Lepus: Spirograph Nebula (Sm)
	Primary Focus	Nebula	Nebula	IC-417	07:07 – 02:10	10:28	15	Auriga: The Spider
	Primary Focus	Nebula	Nebula	NGC-1931	07:07 – 02:13	10:31	16	Auriga: The Fly
	Primary Focus	Nebula	PN	NGC-2261	08:59 – 02:26	11:39	32	Monoceros: Hubble's Variable Nebula
	Primary Focus	Nebula	Nebula	NGC-2264	08:57 – 02:31	11:41	33	Monoceros: Cone Nebula-1
	Primary Focus	Nebula	Nebula	IC-2177	*09:46012:27	12:04	34	Monoceros: Seagull Nebula head
	Primary Focus	Nebula	Nebula	NGC-2359	*10:20-02:23	12:18	36	Canis Major: Thor's Helmet
	Primary Focus	Nebula	PN	NGC-2440	*10:37-02:51	12:42	38	Puppis: Bow-tie Nebula
	Primary Focus	Nebula	PN	NGC-2610	*11:54-03:18	01:33	39	Hydra: Sm/Med Planetary
	Primary Focus	Broadband	Galaxy	UGC-5470	12:17 – 06:04	03:08	43	Leo: Powder Keg Galscy
	Primary Focus	Broadband	Galaxies	NGC-3166, 3169	12:53 – 05:41	03:13	43	Sextans: Galaxy Pair
	Primary Focus	Broadband	Galaxies	NGC-3227, 3226	12:13 – 06:04	03:23	44	Leo: Interacting Galaxy Pair
	Primary Focus	Broadband	Galaxies	Arp-248	*02:01-06:04	04:46	50	Ursa Major: Wild's Triplet
	Primary Focus	Broadband	Galaxy	M-109	01:10 – 06:04	04:57	51	Ursa Major: Face on Spiral
	Primary Focus	Broadband	Galaxies	Arp-244	*02:56-06:04	05:01	51	Corvus: Antennae Galaxies
	Primary Focus	Broadband	Galaxy	NGC-4244	01:38 – 06:04	05:16	52	Canes Venatici: Sliver Needle Galaxy
	Primary Focus	Broadband	Galaxy	M-99	02:22 – 06:04	05:18	53	Coma Berenices: St. Katherines Wheel
	Primary Focus	Broadband	Galaxies	M-100 et. El.	02:22 – 06:04	05:22	54	Coma Berenices: Galaxy Group 100
	Primary Focus	Broadband	Galaxy	NGC-4449	01:43 – 06:04	05:27	56	Canes Venatici: Irregular Galaxy
	Primary Focus	Broadband	Galaxies	NGC-4567 et. El.	02:48 – 06:04	05:35	59	Virgo: Siamese Twins
	Primary Focus	Broadband	Globular	M-68	*03:57-06:04	05:38	61	Hydra: Med Globular

# Prospective Imaging Objects – January 11 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Primary Focus	Broadband	Galaxies	Abell-1656	02:34 – 06:04	05:59	65	Coma Berenices: Coma Galaxy Cluster

# Prospective Imaging Objects – January 11 2024

## Imaging Summary January 11, 2022

Astronomical Dusk = 07:07

Astronomical Dawn = 06:04

### Imaging Plans

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Imaging Schedule
HS1a	HyperStar	Nebula	Nebula	IC-1848,1805				C1-C4   06:49 – 01:20 (Composite4!)
HS1b	HyperStar	Nebula	Nebula	IC-2169				01:30 – 04:30
HS1c	HyperStar	Broadband	OC	NGC-2632				04:30 – 06:00
HS2	HyperStar	Nebula	Nebula	Sh2-240				09:10 – 04:20
FR1a	Focal Reducer	Nebula	Nebula	NGC-7822				06:40 – 10:00
FR1b	Focal Reducer	Nebula	Nebula	IC-443				10:00 – 04:40
FR2a	Focal Reducer	Broadband	OC	NGC-188				06:40 – 10:30
FR2b	Focal Reducer	Broadband	DN	M-78				10:30 – 03:00
FR2c	Focal Reducer	Broadband	Galaxies	M-81 & M-82				03:00 – 06:00
PN1a	Primary Focus	Nebula	PN	NGC-40				06:50 – 10:00
PN1b	Primary Focus	Nebula	PN	IC-418				10:00 – 03:10
PN1c	Primary Focus	Nebula	PN	NGC-3242				03:10 -06:00
PF1a	Primary Focus	Nebula	Nebula	IC-59				06:49 – 12:00
PF1b	Primary Focus	Nebula	Nebula	IC-2177				12:00 – 04:30
PF2a	Primary Focus	Broad Spectrum	Galaxy	IC-1613				06:49 – 10:30
PF2b	Primary Focus	Broad Spectrum	Galaxy	LDN-1622				10:30 – 03:20
	Primary Focus	Broad Spectrum	Galaxy	UGC-5470				03:30 – 06:00