

Prospective Imaging Objects – November 01, 2024

Astronomical Data

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

Hardware Info

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

How to use this document


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

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

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

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

Primary Focus



Sculptor Galaxy (NGC 253)
 Constellation: Sculptor

02

03

04

01



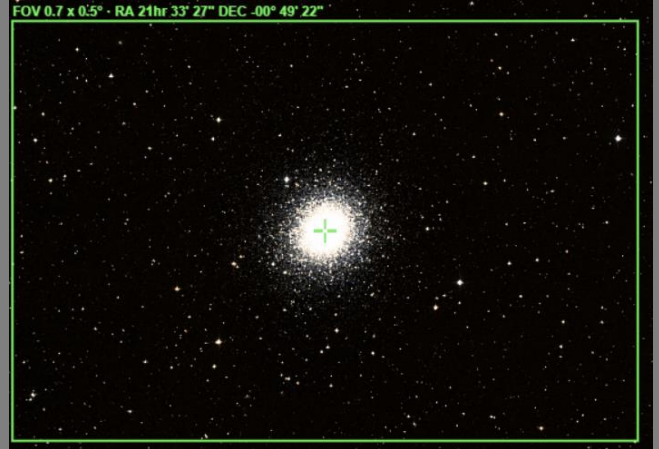
05

06

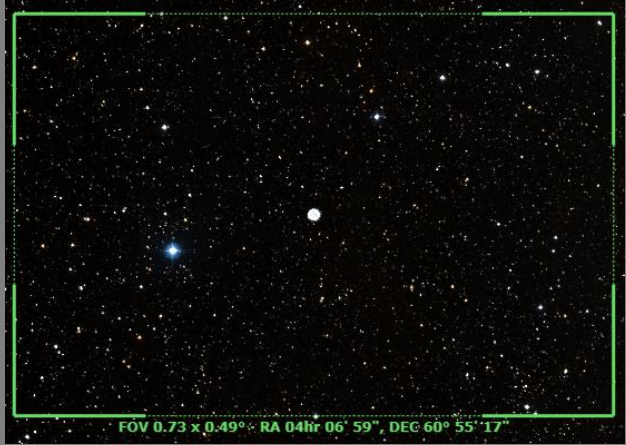

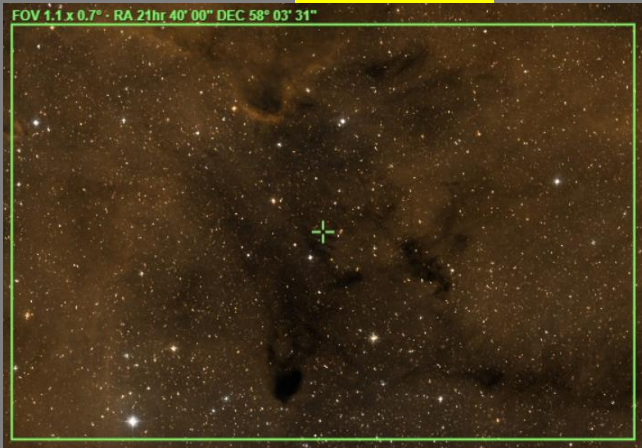
07

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




Prospective Imaging Objects – November 01, 2024

<p>Pegasus Cluster (M-15) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Pegasus Coordinates: 21h 29' 58" 12° 10' 03"</p> <p>Close Star: SAO-127029 (Enif) Catalog Objects: M-15/NGC-7078 Imaging Window: 06:59 – 10:04 Transit: 07:08 69°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-39 (NGC-7092) Config: C11- HD FR ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Cygnus Coordinates: 21h 31' 56" 48° 26' 46"</p> <p>Close Star: SAO-49941 (Deneb) Catalog Objects: M-39/NGC-7092 Imaging Window: 06:59 – 11:02 Transit: 07:10 75°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>M-2 (NGC-7089) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Aquarius Coordinates: 21h 33' 27" 00° 49' 22"</p> <p>Close Star: SAO-127029 (Enif) Catalog Objects: M-2/NGC-7089 Imaging Window: 06:59 – 09:18 Transit: 07:12 56°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

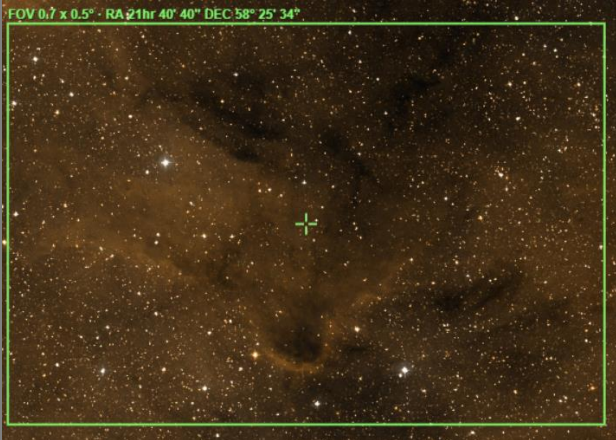


Prospective Imaging Objects – November 01, 2024

<p>NGC-7094 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Pegasus Coordinates: 21h 36' 53" 12° 47' 22"</p> <p>Close Star: SAO-127029 (Enif) Catalog Objects: NGC-7094 Imaging Window: 06:59 – 10:13 Transit: 07:15 69°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Elephant Trunk (IC-1396) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula</p> <p>Constellation: Cepheus Coordinates: 21h 39' 58" 57° 33' 34"</p> <p>Close Star: SAO-19302 (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: 06:59 – 11:07 Transit: 07:17 66°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>Elephant Trunk (IC-1396) Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus Coordinates: 21h 40' 00" 58° 03' 31"</p> <p>Close Star: SAO-19302 (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: 06:59 – 11:07 Transit: 07:17 66°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 

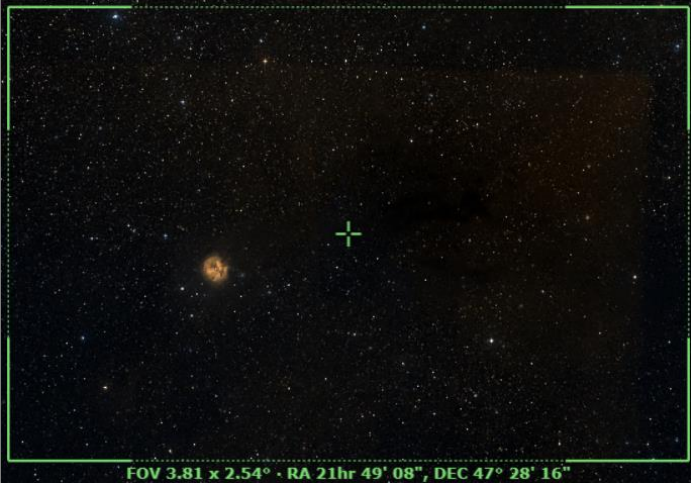


Prospective Imaging Objects – November 01, 2024

<p>Elephant Trunk (IC-1396) Config: C11- HD FR ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cepheus Coordinates: 21h 34' 39" 57° 29' 02"</p> <p>Close Star: SAO-19302 (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: 06:59 – 11:07 Transit: 07:17 66°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Elephant Trunk (IC-1396) Config: C11HD ZWO6200MC </p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus Coordinates: 21h 41' 50" 56° 43' 48"</p> <p>Close Star: SAO-19302 (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: 06:59 – 11:07 Transit: 07:17 66°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Elephant Trunk (IC-1396) Config: C11HD ZWO6200MC </p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus Coordinates: 21h 34' 44" 57° 28' 44"</p> <p>Close Star: SAO-19302 (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: 06:59 – 11:07 Transit: 07:17 66°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – November 01, 2024

<p>Elephant Trunk (IC-1396) Config: C11HD ZWO6200MC </p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus Coordinates: 21h 40' 40" 58° 25' 34"</p> <p>Close Star: SAO-19302 (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: 06:59 – 11:07 Transit: 07:17 66°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-30 (NGC-7099) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Capricornus Coordinates: 21h 40' 22" -23° 10' 43"</p> <p>Close Star: SAO-164644 (Scheddi) Catalog Objects: M-30/NGC-7099 Imaging Window: *06:59 – 09:37 Transit: 07:18 34°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC 7139 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Cepheus Coordinates: 21h 46' 07" +63° 47' 54"</p> <p>Close Star: SAO-019302 (Alderamin) Catalog Objects: NGC-7139 Imaging Window: 06:59 – 11:04 Transit: 07:24 60°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

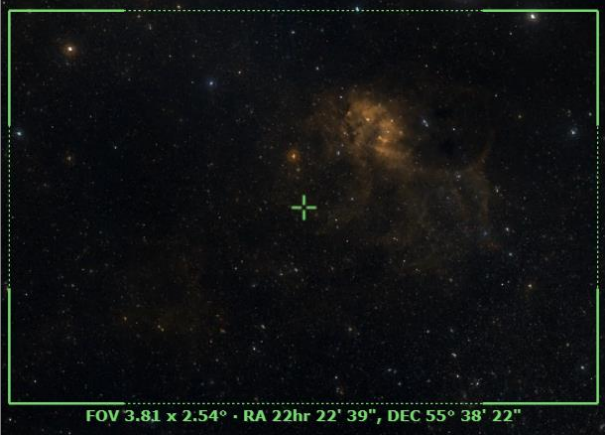
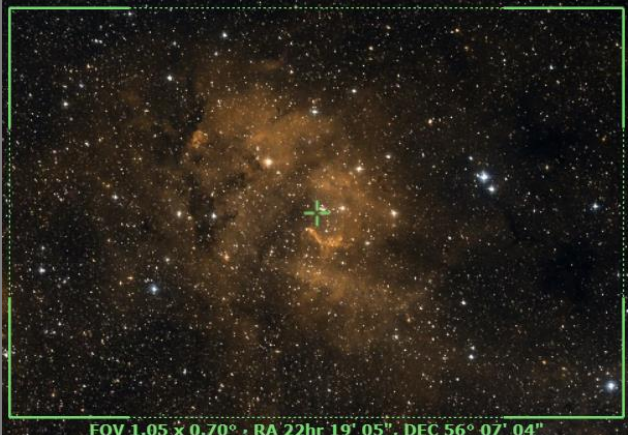
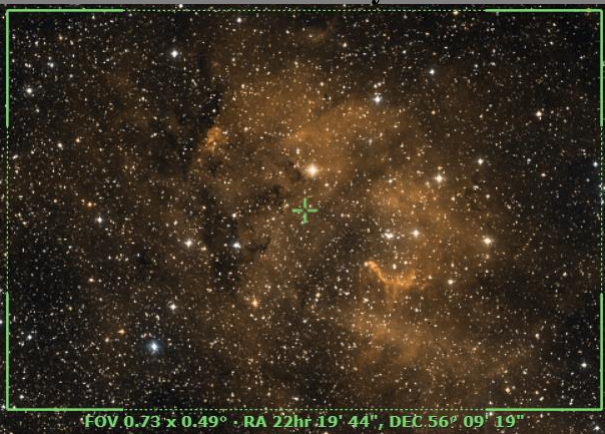
Prospective Imaging Objects – November 01, 2024

<p>Dark Cocoon (B-168, IC 5146) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cygnus Coordinates: 21h 49' 08" 47° 28' 16"</p> <p>Close Star: SAO-5105 (Rho Cygni) Catalog Objects: B-168, IC-5146 Imaging Window: 06:59 – 11:24 Transit: 07:31 76°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="text-align: center;">FOV 3.81 x 2.54° · RA 21hr 49' 08", DEC 47° 28' 16"</p>
<p>Cocoon Nebula (IC-5146) Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: 21h 52' 00" 47° 22' 37"</p> <p>Close Star: SAO-5105 (Rho Cygni) Catalog Objects: IC-5146 Imaging Window: 06:59 – 11:24 Transit: 07:32 76°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="text-align: center;">FOV 1.05 x 0.70° · RA 21hr 52' 00", DEC 47° 22' 37"</p>
<p>Cocoon Nebula (IC-5146) Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: 21h 53' 24" 47° 16' 00"</p> <p>Close Star: SAO-5105 (Rho Cygni) Catalog Objects: IC-5146 Imaging Window: 06:59 – 11:24 Transit: 07:32 76°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;">IC 5146, Cocoon Nebula</p> <p style="text-align: right;">Image Date: 2024-11-01</p>



Prospective Imaging Objects – November 01, 2024

<p>Dark Shark (LDN 1235) Config: C11- HD FR ZWO6200MC </p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus Coordinates: 22h 11' 49" 73° 12' 16"</p> <p>Close Star: SAO-20268 (Iota Cephei) Catalog Objects: LDN-1235 Imaging Window: 06:59 – 10:38 Transit: 07:53 50°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="text-align: center;">FOV 1.05 x 0.70° · RA 22hr 11' 49" · DEC 73° 12' 16"</p>
<p>Wolf's Cave (VdB-152) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus Coordinates: 22h 17' 03" 70° 21' 54"</p> <p>Close Star: SAO-20268 (Iota Cephei) Catalog Objects: B-168, IC-5146 Imaging Window: 06:59 – 11:24 Transit: 07:31 76°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="text-align: center;">Wolf's Cave (VdB 152, LBN 531) <small>Constellation: Cepheus RA=22h 17m 03s Dec=70° 21' 54" Mag=4.08 (APP) Size=1.24 x 2.16 deg. Pixel scale=2.27 arcsec/pixel</small></p> <p style="text-align: center;"><small>Config: C11 HyperStar HyperStar v4 ZWO6200MC Exposure: 113 10ms 10sec Gain: 3200 40Sec: 100</small></p>
<p>Wolf's Cave (VdB-152) Config: C11- HD FR ZWO6200MC </p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus Coordinates: 22h 13' 42" 70° 30' 32" 90° Rotation</p> <p>Close Star: SAO-20268 (Iota Cephei) Catalog Objects: B-168, IC-5146 Imaging Window: 06:59 – 11:24 Transit: 07:31 76°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="text-align: center;">FOV 1.05 x 0.70° · RA 22hr 13' 42" · DEC 70° 30' 32"</p>




Prospective Imaging Objects – November 01, 2024

<p>SH2-132 Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula</p> <p>Constellation: Cepheus Coordinates: 22h 22' 39" 55° 38' 22"</p> <p>Close Star: SAO-20268 (Iota Cephei) Catalog Objects: SH2-132 Imaging Window: 06:59 – 11:49 Transit: 07:57 67°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="text-align: center;">FOV 3.81 x 2.54° · RA 22hr 22' 39", DEC 55° 38' 22"</p>
<p>SH2-132 Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cepheus Coordinates: 22h 19' 05" 56° 07' 04"</p> <p>Close Star: SAO-20268 (Iota Cephei) Catalog Objects: SH2-132 Imaging Window: 06:59 – 11:49 Transit: 07:57 67°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="text-align: center;">FOV 1.05 x 0.70° · RA 22hr 19' 05", DEC 56° 07' 04"</p>
<p>SH2-132 Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cepheus Coordinates: 22h 19' 44" 56° 09' 19"</p> <p>Close Star: SAO-20268 (Iota Cephei) Catalog Objects: SH2-132 Imaging Window: 06:59 – 11:49 Transit: 07:57 67°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;">FOV 0.73 x 0.49° · RA 22hr 19' 44", DEC 56° 09' 19"</p>




Prospective Imaging Objects – November 01, 2024

<p>Stephan's Quintet & NGC 7331 (NGC 7317, 7331) Config: C11- HD FR ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Pegasus Coordinates: 22h 36' 40" 34° 13' 25"</p> <p>Camera Rotation = 115° East (-245)</p> <p>Close Star: SAO-72191 (1 Lacertae) Catalog Objects: NGC-7317 Imaging Window: 06:59 – 11:55 Transit: 08:14 89°</p>	<p>C-11 HD: Focal Reducer</p> 
<p>Stephan's Quintet Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Pegasus Coordinates: 22h 36' 06" 33° 58' 01"</p> <p>Close Star: SAO-72191 (1 Lacertae) Catalog Objects: NGC-7317 Imaging Window: 06:59 – 11:55 Transit: 08:14 89°</p>	<p>C-11 HD: Primary Focus</p> 
<p>Helix Nebula (NGC-7293) Config: C11HD ZWO6200MC </p> <p>Type: Planetary nebula</p> <p>Constellation: Aquarius Coordinates: 22h 29' 39" -20° 48' 36"</p> <p>Close Star: SAO-164644 (Delta Cap) Catalog Objects: NGC-7293 Imaging Window: *06:59 – 10:37 Transit: 08:08 36°</p>	<p>C-11 HD: Primary Focus</p>



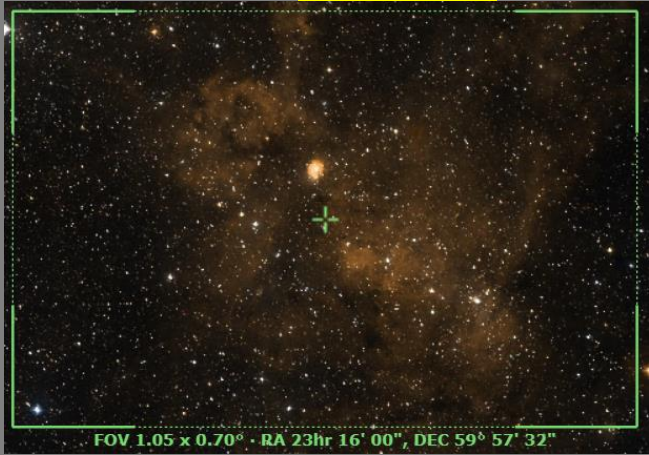
Prospective Imaging Objects – November 01, 2024

<p>NGC-7331 Group (NGC-7331) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Cluster</p> <p>Constellation: Pegasus Coordinates: 22h 37' 15" 34° 24' 51"</p> <p>Close Star: SAO-72191 (1 Lacertae) Catalog Objects: NGC-7331 Imaging Window: 06:59 – 11:56 Transit: 08:15 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;"><small>NGC 7331, NGC 7335, NGC 7337 Galaxy Group</small></p> <p style="text-align: right;"><small>James Yoder 2015.09.11</small></p>
<p>Wizard Nebula (SH 2-142)</p> <p>Config: C11- HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cepheus Coordinates: 22h 47' 26" 58° 03' 03"</p> <p>Close Star: SAO-20268 (Iota Cephei) Catalog Objects: SH2-142 Imaging Window: 06:59 – 12:15 Transit: 08:25 89°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="text-align: center;"><small>FOV 1.05 x 0.70° - RA 22hr 47' 26", DEC 58° 03' 03"</small></p>
<p>Wizard Nebula (SH 2-142)</p> <p>Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cepheus Coordinates: 22h 47' 26" 58° 03' 03"</p> <p>Close Star: SAO-20268 (Iota Cephei) Catalog Objects: SH2-142 Imaging Window: 05:59 – 12:15 Transit: 08:25 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;"><small>Wizard Nebula (NGC-7380) Constellation: Cepheus RA: 22h 47m 26.00s, DEC: +58° 03' 03.00" Size: 40 x 27.2 arcmin Distance: 0.26kpc Pixel scale: 0.441 arcsec/pixel F1-200nm</small></p> <p style="text-align: right;"><small>James Yoder (Denton) 2019.10.25, 2020.03.18, Location: Chandler, AZ Config: C-11 HD ZWO6200MC F1-200nm Exposure: 1x1, 2x1000 Gain: 1200 100% 180</small></p>




Prospective Imaging Objects – November 01, 2024

<p>Cave Nebula (SH2-155) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus Coordinates: 23h 00' 57" 62° 04' 09"</p> <p>Close Star: SAO-20268 (Iota Cephei) Catalog Objects: SH2-155 Imaging Window: 06:59 – 12:18 Transit: 08:35 61°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>Cave Nebula (SH2-155) Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus Coordinates: 22h 56' 57" 62° 31' 33"</p> <p>Close Star: SAO-20268 (Iota Cephei) Catalog Objects: SH2-155 Imaging Window: 06:59 – 12:18 Transit: 08:35 61°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="text-align: center;">FOV 1.05 x 0.70° · RA 22hr 56' 57", DEC 62° 31' 33"</p>
<p>Cave Nebula (SH2-155) Config: C11HD ZWO6200MC </p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus Coordinates: 22h 56' 57" 62° 31' 33"</p> <p>Close Star: SAO-20268 (Iota Cephei) Catalog Objects: SH2-155 Imaging Window: 06:59 – 12:18 Transit: 08:35 61°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 



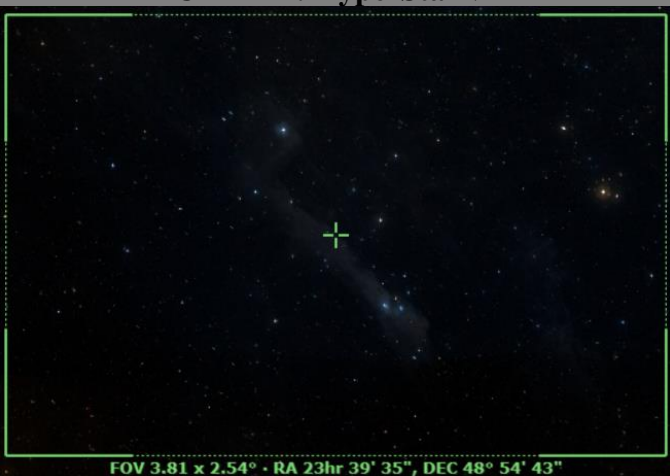
Prospective Imaging Objects – November 01, 2024

<p>NGC-7479 (PGC-70419) Config: C11HD ZWO6200MC </p> <p>Type: Barred Spiral Galaxy</p> <p>Constellation: Pegasus Coordinates: 23h 04' 58" 12° 18' 37"</p> <p>Close Star: SAO-127340 (Baham) Catalog Objects: NGC-7479 Imaging Window: 06:59 – 11:40 Transit: 08:43 62°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">NGC-7479 Constellation: Pegasus RA = 23h 04m 58.2s DEC = -12deg 18' 37.3" Size = 31.4 x 21.0 arcmin Orientation: 0.0 deg E of N Pixel scale = 0.446 arcsec/pixel FL=2000mm James Yoder Location(s): Mesaero Grande(2020-10-16), Chandler(2020-10-19), AZ Config: C-11 HD Baffle Skyglow QHY128c Exposure Info: 360ms@5um Gain: 3200 Offset: 180</p>
<p>Lobster Claw and Bubble Nebula (SH2-157) Config: C11-HD HS ZWO6200MC</p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cassiopeia Coordinates: 23h 18' 25.8" 60° 31' 17.8"</p> <p>Close Star: SAO-21133 (Caph) Catalog Objects: SH2-157 Imaging Window: 06:59 – 12:41 Transit: 08:54 63°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">Lobster Claw and Bubble Nebula(NGC-7635) Constellation: Cassiopeia RA = 23h 18m 25.8s DEC = +60deg 31' 17.8" Size = 2.68 x 1.79 deg Orientation: 0deg E of N Pixel scale = 2.28 arcsec/pixel FL=540mm James Yoder Date(s) 2020-10-21 Location: Chandler, AZ Config: C-11HD HyperStar V4 Astronomik CLS-CCD QHY128c Exposure Info: 360ms@5um Gain: 3200 Offset: 180</p>
<p>Lobster Claw (SH2-157) Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cassiopeia Coordinates: 23h 16' 00" 59° 57' 32"</p> <p>Close Star: SAO-21133 (Caph) Catalog Objects: SH2-157 Imaging Window: 06:59 – 12:41 Transit: 08:54 63°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="font-size: small;">FOV 1.05 x 0.70° - RA 23hr 16' 00", DEC 59° 57' 32"</p>

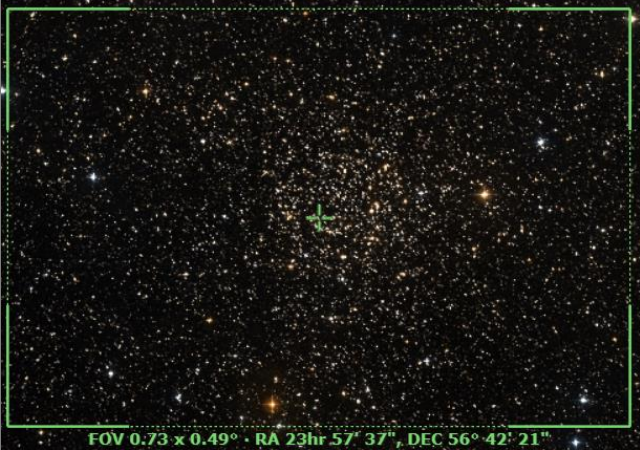


Prospective Imaging Objects – November 01, 2024

<p>Bubble Nebula (NGC-7635) Config: C11HD ZWO6200MC </p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus Coordinates: 23h 20' 12" 61° 11' 00"</p> <p>Close Star: SAO-21133 (Caph) Catalog Objects: NGC-7635, SH2-162 Imaging Window: 06:59 – 12:44 Transit: 08:59 62°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;"><small>Bubble Nebula (NGC-7635) Constellation: Cepheus</small></p>
<p>Pegasus Cluster (NGC-7619) Config: C11- HD FR ZWO6200MC </p> <p>Type: Cluster of Galaxies</p> <p>Constellation: Pegasus Coordinates: 23h 20' 13" 08° 11' 08"</p> <p>Close Star: SAO-128085 (g Piscium) Catalog Objects: NGC-7619 Imaging Window: 06:59 – 11:42 Transit: 08:58 65°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="text-align: center;"><small>FOV 1.05 x 0.70° · RA 23hr 20' 13", DEC 08° 11' 08"</small></p>
<p>Pegasus Cluster (NGC-7619) Config: C11HD ZWO6200MC </p> <p>Type: Cluster of Galaxies</p> <p>Constellation: Pegasus Coordinates: 23h 20' 13" 08° 10' 57"</p> <p>Close Star: SAO-128085 (g Piscium) Catalog Objects: NGC-7619 Imaging Window: 06:59 – 11:42 Transit: 08:58 65°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;"><small>FOV 0.73 x 0.49° · RA 23hr 20' 13", DEC 08° 10' 57"</small></p>

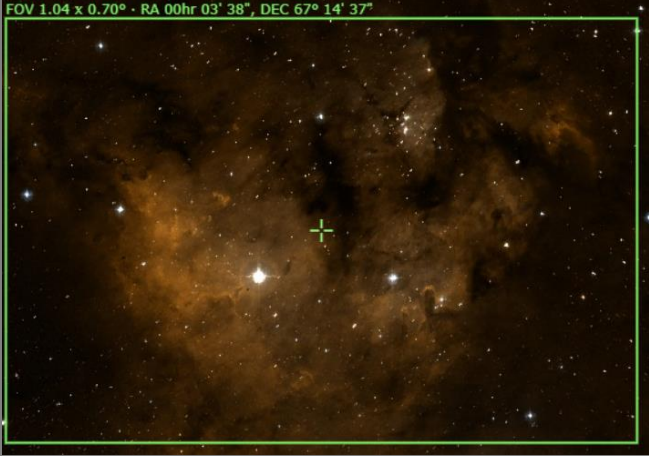


Prospective Imaging Objects – November 01, 2024

<p>M-52 (NGC-7654) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Cassiopeia Coordinates: 23h 24' 48" 61° 36' 00"</p> <p>Close Star: SAO-21133 (Caph) Catalog Objects: M-52 Imaging Window: 06:59 – 12:47 Transit: 09:03 62°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;">FOV 0.73 x 0.49° - RA 23hr 24' 48\", DEC 61° 36' 00"</p>
<p>Blue Snowball (NGC-7662) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Andromeda Coordinates: 23h 25' 54" 42° 32' 06"</p> <p>Close Star: SAO-53216 (Iota And) Catalog Objects: NGC-7662 Imaging Window: 06:59 – 12:54 Transit: 09:04 81°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;">FOV 0.73 x 0.49° - RA 23hr 25' 54\", DEC 42° 32' 06"</p>
<p>Blue Match Nebula (SH2-155) Config: C11-HD HS ZWO6200MC</p> <p>Type: Reflection Nebula</p> <p>Constellation: Andromeda Coordinates: 23h 39' 24" 48° 51' 37" Nearby: NGC-7686 Close Star: SAO-73765 (Alpheratz) Catalog Objects: VdB 158/ LBN 534 Imaging Window: 06:59 – 01:01 Transit: 09:07 81°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="text-align: center;">FOV 3.81 x 2.54° - RA 23hr 39' 35\", DEC 48° 54' 43"</p>




Prospective Imaging Objects – November 01, 2024

<p>Caroline's Rose (NGC-7789) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Cassiopeia Coordinates: 23h 57' 37" 56° 42' 21"</p> <p>Close Star: SAO-21607 (Shedar) Catalog Objects: NGC-7789 Imaging Window: 06:59 – 01:26 Transit: 09:35 65°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-7822 (Ced-214) Config: C11-HD HS ZWO6200MC</p> <p>Type: Emission Nebula Constellation: Cepheus</p> <p>Coordinates: Frame 01 RA: 00hr 03' 42" DEC: 67° 41' 45" Frame 02 RA: 00hr 03' 42" DEC: 65° 35' 15"</p> <p>Close Star: SAO-10818 Catalog Objects: Ced 214, NGC 7822, SH2-171 Imaging Window: 06:59 – 01:07 Transit: 09:39 56°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4 Composite!</p> 
<p>NGC-7822 (CED-214) Config: C11-HD HS ZWO6200MC</p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cepheus Coordinates: 00h 01' 27" 67° 28' 37"</p> <p>Close Star: SAO-20268 Catalog Objects: Ced 214, NGC 7822, SH2-171 Imaging Window: 06:59 – 01:07 Transit: 09:39 56°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 


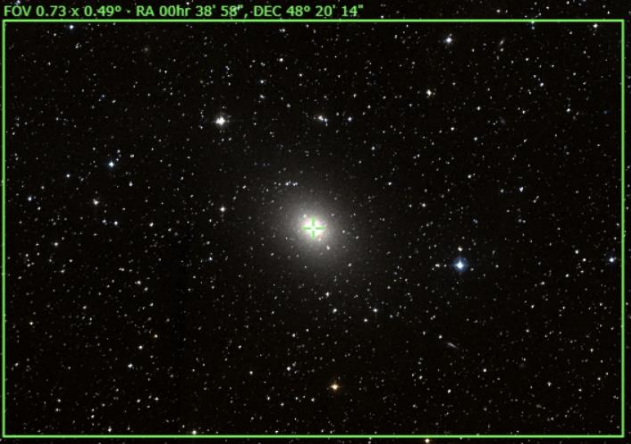

Prospective Imaging Objects – November 01, 2024

<p>NGC-7822 (CED-214) Config: C11- HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cepheus Coordinates: 00h 03' 38" 67° 14' 37"</p> <p>Close Star: SAO-20268 Catalog Objects: Ced 214, NGC 7822, SH2-171 Imaging Window: 06:59 – 01:07 Transit: 09:39 56°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>NGC-7822 (CED-214) Config: C11HD ZWO6200MC </p> <p>Type: Emission Nebula Constellation: Cepheus Coordinates: 00h 01' 56" 67° 23' 05"</p> <p>Close Star: SAO-10818 Catalog Objects: Ced 214, NGC 7822, SH2-171 Imaging Window: 06:59 – 01:07 Transit: 09:39 56°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Bow-Tie Nebula (NGC-40) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Cepheus Coordinates: 00h 13' 01" 72° 31' 21"</p> <p>Close Star: SAO-20268 Catalog Objects: NGC-40 Imaging Window: 06:59 – 12:46 Transit: 09:51 51°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 


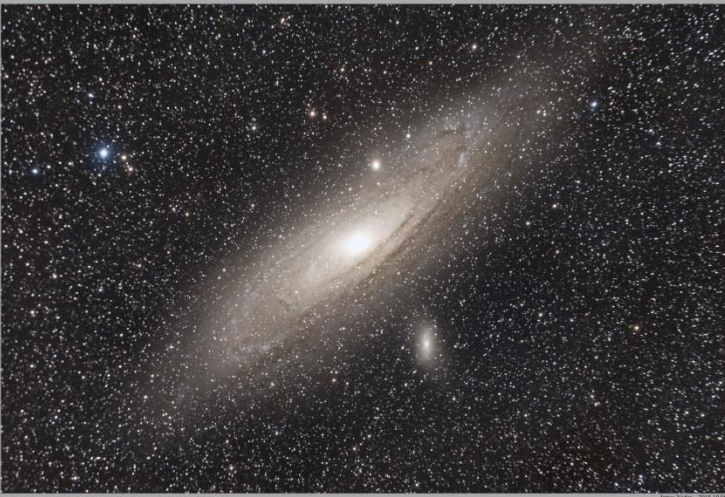

Prospective Imaging Objects – November 01, 2024

<p>Andromeda Galaxy Group Config: C11HD ZWO6200MC </p> <p>Type: Cluster of dim galaxies Peak: Constellation: Andromeda Coordinates: 00h 17' 58" 30° 03' 03"</p> <p>Close Star: SAO-73765 (Alpheratz) Catalog Objects: NGC 67-72 et. El.</p> <p>Imaging Window: 06:59 – 01:31 Transit: 09:56 87°</p>	<p>C-11 HD: Primary Focus</p> 
<p>NGC-147 & NGC-185 Config: C11-HD HS ZWO6200MC</p> <p>Type: Galaxy Pair</p> <p>Constellation: Cassiopeia Coordinates: 00h 36' 22" 48° 26' 42"</p> <p>Close Star: SAO-21609 (Shedar) Catalog Objects: NGC-147, NGC-185 Imaging Window: 06:59 – 02:04 Transit: 10:11 75°</p>	<p>C-11 HD: HyperStar v4</p> 
<p>NGC-147 & NGC-185 Config: C11-HD FR ZWO6200MC</p> <p>Type: Galaxy Pair</p> <p>Constellation: Cassiopeia Coordinates: Frame 01 RA: 00hr 38' 33" DEC: 48° 25' 44" Frame 02 RA: 00hr 33' 21" DEC: 48° 25' 44"</p> <p>Close Star: SAO-21609 (Shedar) Catalog Objects: NGC-147 Imaging Window: 06:59 – 02:02 Transit: 10:11 75°</p>	<p>C-11 HD: Focal Reducer Composite!</p>  <p><small>Dwarf Galaxies NGC-185, NGC-147 © 2024 Starizona, Cassiopeia RA: 00h 33m 21s DEC: 48° 25' 44" - RA: 00h 38m 33s DEC: 48° 25' 44" - Plate scale: 1.87"/pixel (FR) - 0.87"/pixel (HS)</small></p>


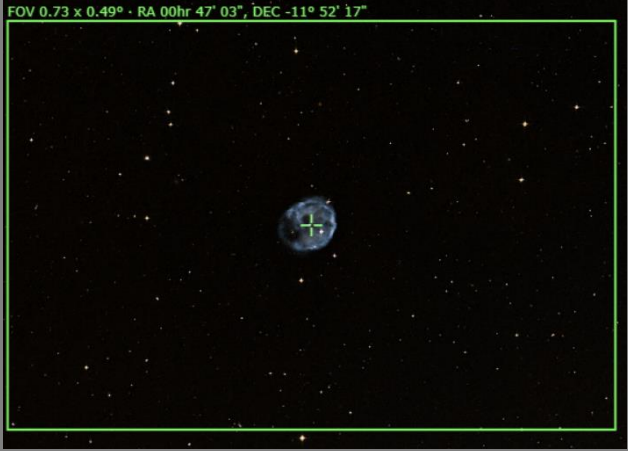

Prospective Imaging Objects – November 01, 2024

<p>NGC-147 Config: ZWO6200MC </p> <p>Type: Galaxy Peak: Constellation: Cassiopeia Coordinates: 00h 33' 07.245" 48° 30' 18.030"</p> <p>Close Star: SAO-37375 Catalog Objects: NGC-147</p> <p>Imaging Window: 06:59 – 02:02 Transit: 10:11 75°</p>	<p style="text-align: center;">Primary Focus</p>  <p style="font-size: small;">Dwarf Galaxy NGC-147 Constellation: Cassiopeia RA = 00h 33m 07.245s DEC = +48deg 30' 18.030" Size = 49.7 x 33.5 arcmin Pixel scale = 0.579 arcsec/pixel</p> <p style="font-size: x-small; text-align: right;">Image Date: 2019-09-27 Location: Mountain Grande Teahouse, AZ Config: C11 L1 Camera Rucker 8x6mm Filter (Q75 12x) Exposure Info: 144min@5min Gain: 1200 Offset: 180</p>
<p>NGC-185 Config: C11-HD ZWO6200MC</p> <p>Type: Dwarf Spheroidal Galaxy</p> <p>Constellation: Cassiopeia Coordinates: 00h 38' 58" 48° 20' 14"</p> <p>Close Star: SAO-21609 (Shedar) Catalog Objects: NGC-185 Imaging Window: 06:59 – 02:10 Transit: 10:17 75°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">FOV 0.73 x 0.49° • RA 00hr 38' 58", DEC 48° 20' 14"</p> <p style="font-size: x-small; text-align: right;">Image Date: 2019-09-27 Location: Mountain Grande Teahouse, AZ Config: C11 L1 Camera Rucker 8x6mm Filter (Q75 12x) Exposure Info: 144min@5min Gain: 1200 Offset: 180</p>
<p>M-110 Config: C11-HD ZWO6200MC</p> <p>Type: Elliptical Galaxy</p> <p>Constellation: Andromeda Coordinates: 00h 40' 22" 41° 41' 07"</p> <p>Close Star: SAO-73765 (Sirrah) Catalog Objects: M-110 Imaging Window: 06:59 – 02:07 Transit: 10:18 82°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">M-110 (NGC-205) Constellation: Andromeda RA = 00h 40m 21.6s DEC = +41deg 41' 07.0" Size = 61.2 x 27.3 arcmin Orientation: 0.5deg E of N Pixel scale = 0.646 arcsec/pixel F1-C762mm</p> <p style="font-size: x-small; text-align: right;">Image Date: 2019-09-27 Location: Mountain Grande Teahouse, AZ Config: C11 L1 Camera Rucker 8x6mm Filter (Q75 12x) Exposure Info: 144min@5min Gain: 1200 Offset: 180</p>



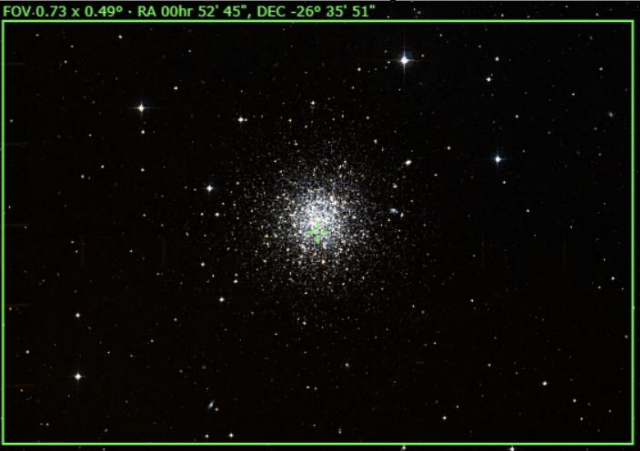
Prospective Imaging Objects – November 01, 2024

<p>M-32 Config: C11-HD ZWO6200MC</p> <p>Type: Elliptical Galaxy</p> <p>Constellation: Andromeda Coordinates: 00h 42' 42" 40° 51' 57"</p> <p>Close Star: SAO-73765 (Sirrah) Catalog Objects: M-32 Imaging Window: 06:59 – 02:09 Transit: 10:20 83°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Andromeda Galaxy (M 31) Config: C11 HS ZWO6200MCc </p> <p>Type: Galaxy Peak: Oct 1 Constellation: Andromeda Coordinates: 00h 43' 03.089" 41° 18' 37.05"</p> <p>Close Star: SAO-54281 Catalog Objects: M-31, M-32</p> <p>Imaging Window: 06:59 – 02:09 Transit: 10:20 82°</p>	<p style="text-align: center;">Hyperstar</p> 
<p>M-31, M-32 Config: C11-HD HS ZWO6200MC</p> <p>Type: Andromeda Galaxy</p> <p>Constellation: Andromeda Coordinates: 00h 42' 44" 41° 16' 08" Angle: 133° East</p> <p>Close Star: SAO-73765 (Sirrah) Catalog Objects: M-31, M-32 Imaging Window: 06:59 – 02:09 Transit: 10:20 82°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 

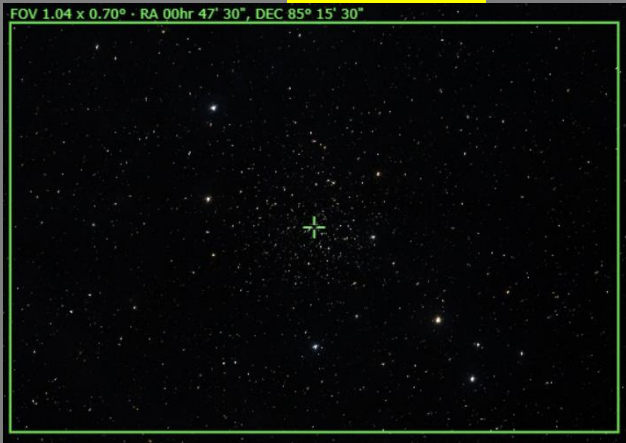


Prospective Imaging Objects – November 01, 2024

<p>NGC246, NGC255, PGC 2689 Config: C11-HD HS ZWO6200MC</p> <p>Type: Planetary Nebula, 2 Galaxies</p> <p>Constellation: Cetus Coordinates: 00h 47' 00" -11° 40' 40"</p> <p>Close Star: SAO-147420 (Diphda) Catalog Objects: NGC-246 Imaging Window: *07:12 – 01:40 Transit: 10:25 45°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="font-size: small;">Skull Nebula (NGC-246) and Galaxy NGC-255 Constellation: Cetus the Whale RA: 00h 47m 00s, DEC: -11deg 40' 40" Size = 51.7 x 34.5 arcmin Orientation: 39Mag E of N Pixel scale = 0.579 arcsec/pixel FL: 1900mm James Volder Date: 2024-09-26 Location: Chandler, AZ Config: C11-HD 0.7 Reducer Star: Blade Sharpies Camera: QHY 238C Exposure Info: 200ms/Frame Gain: 1200 Offset: 100</p>
<p>Skull Nebula (NGC-246) Config: C11-HD ZWO6200MC</p> <p>Type: Planetary Nebula</p> <p>Constellation: Cetus Coordinates: 00h 47' 03" -11° 52' 17"</p> <p>Close Star: SAO-147420 (Diphda) Catalog Objects: NGC-246 Imaging Window: *07:12 – 01:40 Transit: 10:25 45°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">FOV 0.73 x 0.49° - RA 00hr 47' 03", DEC -11° 52' 17" Needle's Eye Galaxy (NGC-247) Constellation: Cetus RA: 00h 47m 10s, DEC: -20deg 44' 38" Size = 41.2 x 27.5 arcmin Orientation: 65Mag E of N Pixel scale = 0.448 arcsec/pixel FL: 2000mm James Volder Date: 2024-09-11 Location: Chandler, AZ Config: C-11 HD Star: Sharpies Camera: QHY 128C Exposure Info: 200ms/Frame Gain: 1200 Offset: 100</p>
<p>Needle's Eye Galaxy (NGC 247) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Peak: Constellation: Cetus Coordinates: 00hr 47' 12" -20° 44' 38"</p> <p>Close Star: SAO-147420 Catalog Objects: NGC 247</p> <p>Imaging Window: *07:57 – 12:59 Transit: 10:25 36°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Needle's Eye Galaxy (NGC-247) Constellation: Cetus RA: 00h 47m 10s, DEC: -20deg 44' 38" Size = 41.2 x 27.5 arcmin Orientation: 65Mag E of N Pixel scale = 0.448 arcsec/pixel FL: 2000mm James Volder Date: 2024-09-11 Location: Chandler, AZ Config: C-11 HD Star: Sharpies Camera: QHY 128C Exposure Info: 200ms/Frame Gain: 1200 Offset: 100</p>

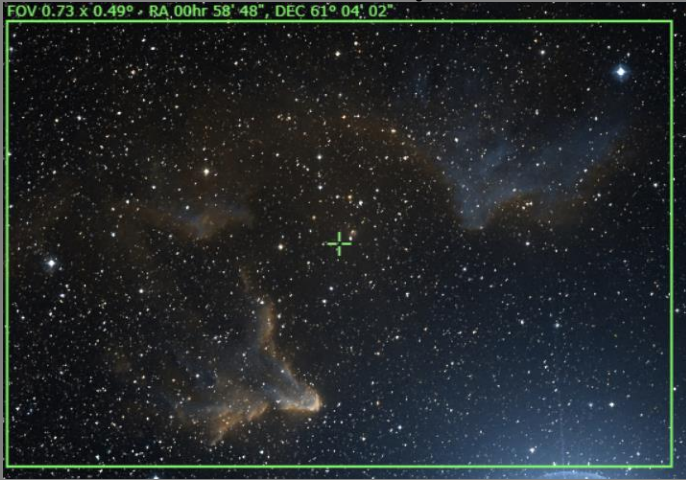

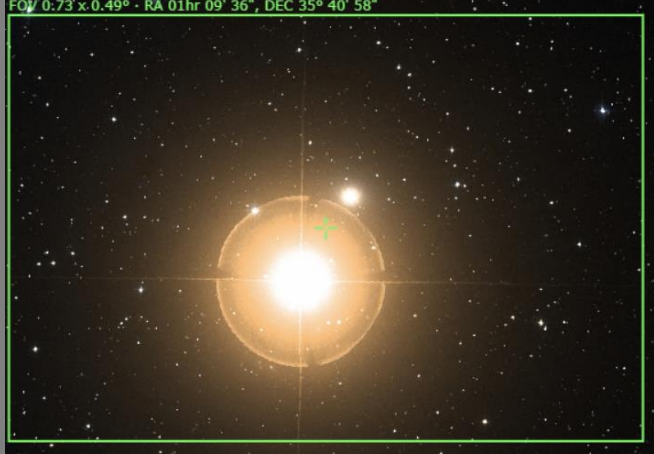
Prospective Imaging Objects – November 01, 2024

<p>NGC-288, NGC-253 Config: C11-HD HS ZWO6200MC</p> <p>Type: Globular and Galaxy</p> <p>Constellation: Sculptor Coordinates: 00h 50' 03" -25° 54' 37"</p> <p>Close Star: SAO-147420 (Diphda) Catalog Objects: NGC-288, NGC-253 Imaging Window: *08:26 – 12:29 Transit: 10:25 31°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">Sculptor galaxy (NGC-253) and Globular Cluster (NGC-288) <small>James Webb (DuoV) 2024.12.14 Location: Mountain Ground Trailhead, AZ Constellation: Sculptor Config: C-11HD HyperStar V4 Braker Skyline 600x126x RA = 00h 50m 03.1s DEC = -25deg 54' 37.0" Size = 3.14 x 2.89 deg Orientation: 8deg E of N Pixel scale = 2.28 arcsec/pixel FL=500mm Exposure Info: 21 (Holo) / 5min Gain: 3200 Offset: 180</small></p>
<p>Sculptor Galaxy (NGC-253) Config: C11-HD ZWO6200MC</p> <p>Type: Spiral Galaxy</p> <p>Constellation: Sculptor Coordinates: 00h 47' 33" -25° 17' 15"</p> <p>Close Star: SAO-147420 (Diphda) Catalog Objects: NGC-253 Imaging Window: *08:26 – 12:29 Transit: 10:25 31°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Sculptor Galaxy (NGC 253) <small>James Webb 2024.08.21 Location: Chandler, AZ Config: C11 Stationer L.F. Corrector Braker Moon Filter 600x126x Exposure Info: 10 (Holo) / 5min Gain: 3200 Offset: 180</small></p>
<p>NGC-288 Config: C11-HD ZWO6200MC</p> <p>Type: Globular Cluster</p> <p>Constellation: Sculptor Coordinates: 00h 52' 45" -26° 35' 51"</p> <p>Close Star: SAO-147420 (Diphda) Catalog Objects: NGC-288 Imaging Window: *08:49 – 12:22 Transit: 10:30 31°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">FOV: 0.73 x 0.49° · RA 00hr 52' 45", DEC -26° 35' 51"</p>




Prospective Imaging Objects – November 01, 2024

<p>NGC-188 Config: C11-HD FR ZWO6200MC</p> <p>Type: Open Cluster</p> <p>Constellation: Cepheus Coordinates: 00h 47' 30" 85° 15' 30"</p> <p>Close Star: SAO-308 (Polaris) Catalog Objects: NGC-188 Imaging Window: *06:59 – 03:14 Transit: 10:25 38°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>NGC-281 Config: C11-HD FR ZWO6200MC</p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cassiopeia Coordinates: 00h 53' 00" 56° 37' 00"</p> <p>Close Star: SAO-11482 (Navi) Catalog Objects: NGC-281 Imaging Window: 06:59 – 02:21 Transit: 10:30 67°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="font-size: small; text-align: center;">Pinwheel Nebula (NGC-281) <small>Copyright © 2024, All Rights Reserved. This image is the property of the author and is not to be reproduced without permission.</small></p>
<p>Gamma Cassiopeiae Nebula (SH2-185) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula</p> <p>Constellation: Cassiopeia Coordinates: 01h 03' 11" 60° 42' 24"</p> <p>Close Star: SAO-11482 (Navi) Catalog Objects: SH2-185 Imaging Window: 06:59 – 02:24 Transit: 10:38 62°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small; text-align: center;">Gamma Cassiopeiae Nebula (SH2-185, IIRN-620, IC-59 & IC-163) <small>Copyright © 2024, All Rights Reserved. This image is the property of the author and is not to be reproduced without permission.</small></p>



Prospective Imaging Objects – November 01, 2024

<p>Gamma Cassiopeiae Nebula (SH2-185) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula</p> <p>Constellation: Cassiopeia Coordinates: 00h 58' 48" 61° 04' 02"</p> <p>Close Star: SAO-11482 (Navi) Catalog Objects: SH2-185 Imaging Window: 06:59 – 02:24 Transit: 10:38 62°</p>	<p>C-11 HD: Primary Focus</p> <p>FOV 0.73 x 0.49° · RA 00hr 58' 48", DEC 61° 04' 02"</p> 
<p>IC-1613 Config: C11-HD ZWO6200MC</p> <p>Type: Irregular Dwarf Galaxy</p> <p>Constellation: Cetus Coordinates: 01h 04' 48" 02° 07' 07"</p> <p>Close Star: SAO-75151 (Hamal) Catalog Objects: IC-1613 Imaging Window: 08:27 – 01:04 Transit: 10:42 59°</p>	<p>C-11 HD: Primary Focus</p> <p>FOV 0.73 x 0.49° · RA 01hr 04' 48", DEC 02° 07' 07"</p> 
<p>Mirach's Ghost (NGC-404) Config: C11-HD ZWO6200MC</p> <p>Type: Elliptical Galaxy</p> <p>Constellation: Andromeda Coordinates: 01h 09' 36" 35° 40' 58"</p> <p>Close Star: SAO-544471 (Mirach) Catalog Objects: NGC-404 Imaging Window: 07:09 – 02:30 Transit: 10:47 88°</p>	<p>C-11 HD: Primary Focus</p> <p>FOV 0.73 x 0.49° · RA 01hr 09' 36", DEC 35° 40' 58"</p> 

Prospective Imaging Objects – November 01, 2024

<p>NGC-457 & Dolphin Nebula Config: C11-HD HS ZWO6200MC</p> <p>Type: Open Cluster & Nebula</p> <p>Constellation: Cassiopeia Coordinates: 01° 23' 38" 58° 12' 54"</p> <p>Close Star: SAO-22268 (Ruchbah) Catalog Objects: NGC-457 Imaging Window: 07:13 – 02:47 Transit: 10:57 65°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">Firefox Nebula (SH-2-188), Owl Cluster(NGC-457), NGC-436 <small>Constellation: Cassiopeia RA: 01h 23m 37.93s, DEC: 58° 12' 54.11" (Observation: 90p 5.0"/s, Pixel scale: 2.21 arcsec/pixel, FWHM: 2.0)</small></p>
<p>Owl Cluster (NGC-457) Config: C11-HD ZWO6200MC</p> <p>Type: Open Cluster & Nebula</p> <p>Constellation: Cassiopeia Coordinates: 01h 23' 38" 58° 12' 54"</p> <p>Close Star: SAO-22268 (Ruchbah) Catalog Objects: NGC-457 Imaging Window: 07:13 – 02:47 Transit: 10:57 65°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> <p style="font-size: small; color: green;">FOV 0.73 x 0.49° - RA 01hr 19' 33", DEC 58° 17' 42"</p> 
<p>Minkowski's Object (Arp-133) Config: C11-HD HS ZWO6200MC</p> <p>Type: Galaxy Cluster Constellation: Cetus Coordinates: 01h 25' 27" -01° 29' 03"</p> <p>Close Star: SAO-75151 (Hamal) Catalog Objects: ARP-133 Imaging Window: 09:05 – 01:08 Transit: 11:03 55°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> <p style="font-size: small; color: green;">FOV 0.73 x 0.49° - RA 01hr 25' 27", DEC -01° 29' -3"</p> 

Prospective Imaging Objects – November 01, 2024

<p>Firefox Nebula (Sh 2-188) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Cassiopeia Coordinates: 01h 31' 37" 58° 21' 22"</p> <p>Close Star: SAO-22268 (Ruchbah) Catalog Objects: Sh 2-188</p> <p>Imaging Window: 07:24 – 02:58 Transit: 11:08 65°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-103 (NGC-581) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster Constellation: Cassiopeia Coordinates: 01h 33' 31" 60° 39' 44"</p> <p>Close Star: ISO-22268 (Ruchbah) Catalog Objects: M-103/NGC-581</p> <p>Imaging Window: 07:30 – 02:58 Transit: 11:11 63°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Triangulum Galaxy (M-33) Config: C11 HS ZWO6200MC</p> <p>Type: Galaxy Constellation: Triangulum Coordinates: 01h 33' 52" 30° 39' 29"</p> <p>Close Star: SAO-74996 Catalog Objects: M33, NGC598</p> <p>Imaging Window: 07:41 – 02:48 Transit: 11:11 87°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> <p style="font-size: small; text-align: center;">FOV 3.80 x 2.53° · RA 01hr 33' 52", DEC 30° 39' 29" · 1.43"/px</p> 

Prospective Imaging Objects – November 01, 2024

Triangulum Galaxy (M-33)

Config: |C11-
HD|FR|ZWO6200MC|

Type: **Galaxy**
Peak: **Oct 14**
Constellation: **Triangulum**

Camera Rotation - 90°

Coordinates:
01h 33' 52"
30° 39' 29"

Close Star: **SAO-74996**
Catalog Objects: [M33](#), NGC598

Imaging Window: **07:41 – 02:48**
Transit: **11:11 | 87°**

CH11-HD **Focal Reducer** **90° Rotation**



Triangulum Galaxy (M-33)
Constellation: Triangulum
Image Date: 2024-09-01 01:31:11.00 (Local Date: 2024-09-01)
Config: CH11-HD Focal Reducer (Star Camera ZWO6200MC)
Exposure Info: 1 Exposed 00:00:00 (Photo: 00:00:00) (Star: 00:00:00)

Triangulum Galaxy (M-33)

Config: |ZWO6200MC|

Type: **Galaxy**
Peak: **Oct 14**
Constellation: **Triangulum**

Coordinates:
01° 34' 53.37"
30° 45' 11.2"

Close Star: **SAO-74996**
Catalog Objects: [M33](#), NGC598

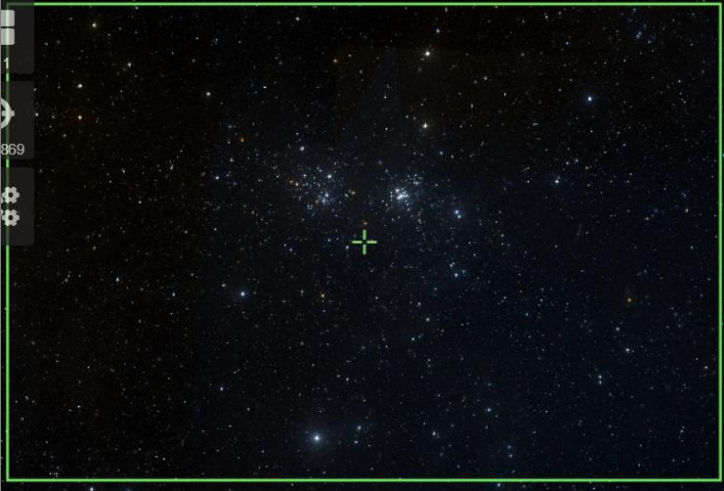


Imaging Window: **07:41 – 02:48**
Transit: **11:11 | 87°**

Primary Focus



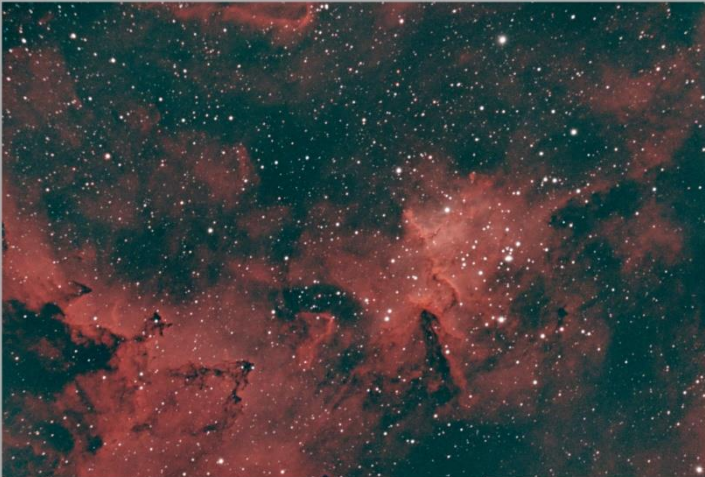


M33: Pinwheel Galaxy
James Yoder 2014


Prospective Imaging Objects – November 01, 2024

<p>Hand chi Persei (NGC 869, 884) Config: C11-HD HS ZWO6200MC</p> <p>Type: Double Open Cluster Peak: October 28 Constellation: Perseus Coordinates: 02hr 20' 31" 56° 54' 05"</p> <p>Close Star: SAO-22258 (Ruchbah) Catalog Objects: NGC 869, 884</p> <p>Imaging Window: 08:11 – 03:48 Transit: 11:56 66°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>Edge On Galaxy (NGC 891) Config: C1 LF ZWO6200MC </p> <p>Type: Galaxy Peak: Oct 27 Constellation: Andromeda Coordinates: 02h 23' 43.29" 42° 25' 46.4"</p> <p>Close Star: SAO-37734 Catalog Objects: NGC891</p> <p>Imaging Window: 08:12 – 03:50 Transit: 12:00 81°</p>	<p style="text-align: center;">Primary Focus</p>  <p><small>Edge On Spiral Galaxy NGC 891</small> <small>James Yoder/2014.11.23</small></p>
<p>NGC-925 (PGC 9332) Config: C11-HD ZWO6200MC </p> <p>Type: Galaxy Constellation: Triangulum Coordinates: 02h 27' 17" 33° 34' 44"</p> <p>Close Star: SAO-55306 (Beta Trianguli) Catalog Objects: NGC925/PGC9332</p> <p>Imaging Window: 08:30 – 03:46 Transit: 12:05 90°</p>	<p style="text-align: center;">Primary Focus</p>  <p><small>NGC-925 Edge On Spiral Galaxy in Triangulum © 2014 James Yoder. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the publisher.</small> <small>James Yoder/2014.11.23</small></p>




Prospective Imaging Objects – November 01, 2024

<p>Heart Nebula (IC 1805) Config: C11-HD HS ZWO6200MC</p> <p>Type: Diffuse Nebula Peak: October 31 Constellation: Cassiopeia Coordinates: 02hr 31' 16" 61° 21' 36"</p> <p>Close Star: SAO-12031 Catalog Objects: IC 1805</p> <p>Imaging Window: 08:31 – 03:56 Transit: 12:10 62°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">Heart Nebula (IC 1805) Constellation: Cassiopeia</p> <p style="font-size: x-small; text-align: right;">James Yoder 2018.09.26 Location: Chandler, AZ Config: C11 HyperStar Astronomik CLS-CCD (OHV 128) Exposure Info: 250ms/Star (Gain: 3200) (Offset: 180)</p>
<p>Heart Nebula (IC 1805) Config: C11- HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula Constellation: Cassiopeia Coordinates: 02hr 26' 36" 62° 06' 53"</p> <p>Close Star: SAO-12031 Catalog Objects: IC 1805</p> <p>Imaging Window: 08:31 – 03:56 Transit: 12:10 62°</p>	<p style="text-align: center;">CH11-HD Focal Reducer</p>  <p style="font-size: small;">Heart Nebula core (IC-1805) Constellation: Cassiopeia Size: 100.00x66.66x33.33 --> 100.00x33.33x16.67 (Scale: 0.3x @ 4.0 arcmin) (Pixel scale: 0.037 arcsecond)</p> <p style="font-size: x-small; text-align: right;">James Yoder 2023.11.01 Location: Chandler, AZ Config: C11-HD F7 Reducer Astronomik CLS-CCD (OHV 128) Exposure Info: 200ms/Star (Gain: 2000) (Offset: 180)</p>
<p>Heart Nebula (IC-1805) Config: C1 LF ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: October 31 Constellation: Cassiopeia Coordinates: 02hr 32' 42" 61° 27' 00"</p> <p>Close Star: SAO-12031 Catalog Objects: IC 1805</p> <p>Imaging Window: 08:31 – 03:56 Transit: 12:10 62°</p>	<p style="text-align: center;">Primary Focus</p>  <p style="font-size: small;">Heart Nebula Core (IC-1805) Constellation: Cassiopeia</p> <p style="font-size: x-small; text-align: right;">James Yoder 2018.09.14 Location: Chandler, AZ Config: C11 Starizona LF Reducer SFP Triad Filter (OHV 128) Exposure Info: 200ms/Star (Gain: 1100) (Offset: 170)</p>



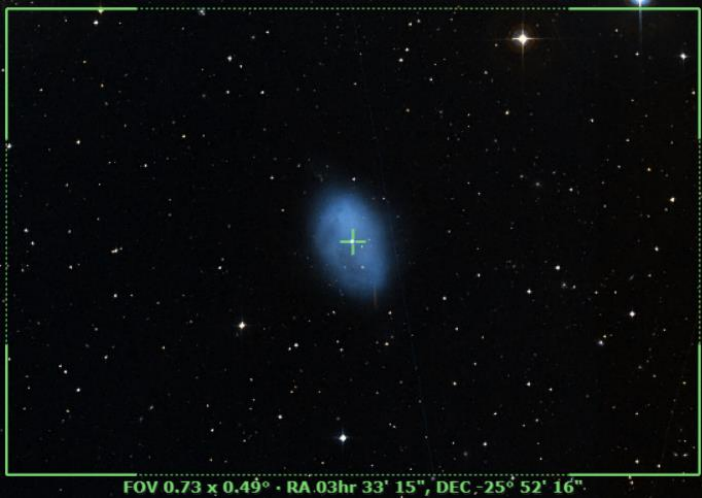
Prospective Imaging Objects – November 01, 2024

<p>M-77, NGC 1055 Config: C11- HD FR ZWO6200MC </p> <p>Type: Galaxy Peak: Constellation: Cetus Coordinates: 02hr 42' 14" 00° 14' 28" Angle: 90°</p> <p>Close Star: SAO-110665 Catalog Objects: M-77, NGC-1055, NGC-1068</p> <p>Imaging Window: 10:15 – 02:32 Transit: 12:20 57°</p>	<p style="text-align: center;">CH11-HD Focal Reducer</p>  <p style="font-size: small;">Galaxies NGC-1055, M-77, NGC-1072 Constellation: Cetus RA=02h 42m 26.5s DEC=+00deg 14' 13.5" Size=55.2 x 39.3 arcmin Orientation: -90.5deg E of N Pixel scale = 0.579 arcsec/pixel FL=1956mm James Yoder Date(s) 2020-12-20, 21, 22 Location: Chandler, AZ Config: C11-HD 0.7 Reducer Filter(s): Baader Skyglow, CLS-CCD (DAS-LP-612) Camera: SBV120C1 Exposure Info: (418ms/5min) Gain: 3200 Offset: 100</p>
<p>NGC-1055 Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Peak: Constellation: Cetus Coordinates: 02hr 41' 50" 00° 29' 48"</p> <p>Close Star: SAO-110665 Catalog Objects: NGC-1055</p> <p>Imaging Window: 10:12 – 02:33 Transit: 12:19 57°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-34 (NGC-1039) Config: C11-HD ZWO6200MC </p> <p>Type: Open Cluster Constellation: Perseus Coordinates: 02h 42' 05" 42° 45' 42"</p> <p>Close Star: SAO-38592 (Algol) Catalog Objects: M-34/NGC-1039</p> <p>Imaging Window: 08:35 – 04:10 Transit: 12:19 81°</p>	<p style="text-align: center;">Primary Focus</p> 


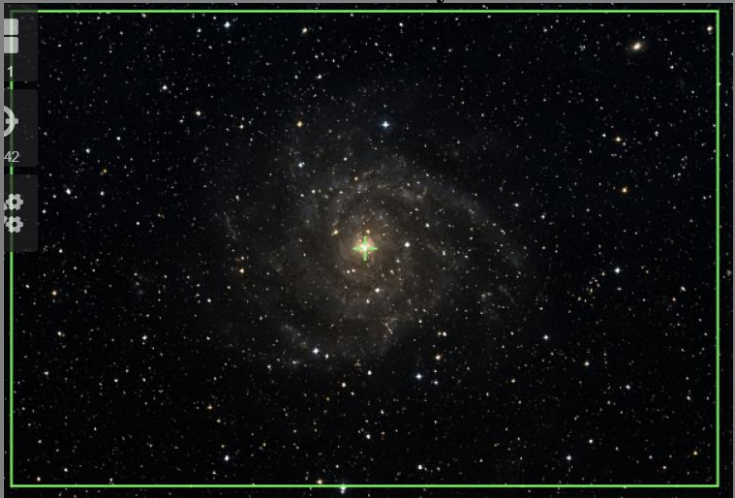

Prospective Imaging Objects – November 01, 2024

<p>M 77 (NGC 1068) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Peak: Constellation: Cetus Coordinates: 02hr 42' 34" 00° 02' 07"</p> <p>Close Star: SAO-110665 Catalog Objects: M 77, NGC-1068</p> <p>Imaging Window: 10:15 – 02:32 Transit: 12:20 57°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Soul Nebula (IC-1848) Config: C11-HD HS ZWO6200MC</p> <p>Type: Diffuse Nebula Peak: Constellation: Cassiopeia Coordinates: 02hr 57' 16" 60° 37' 37"</p> <p>Close Star: SAO-38787 (Mirfak) Catalog Objects: IC 1848</p> <p>Imaging Window: 08:48 – 04:16 Transit: 12:29 63°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">Soul Nebula (IC-1848) Constellation: Cassiopeia</p> <p style="font-size: x-small; text-align: right;"> James Yoder - 2018-08-20 Location: Chandler, AZ Config: C11 HyperStar Astronomik 128C ZWO6200MC Exposure Info: 240min@5min Gain: 3200 Offset: 180 </p>
<p>Soul Nebula (IC-1848) Config: C1 LF ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Cassiopeia Coordinates: 02hr 57' 16" 60° 37' 37"</p> <p>Close Star: SAO-38787 (Mirfak) Catalog Objects: IC 1848</p> <p>Imaging Window: 08:48 – 04:16 Transit: 12:29 63°</p>	<p style="text-align: center;">Primary Focus</p>  <p style="font-size: small;">Soul Nebula (IC-1848) Constellation: Cassiopeia</p> <p style="font-size: x-small; text-align: right;"> James Yoder - 2018-11-09 Location: Chandler, AZ Config: C11 Seymour's L3 Filter 1848C ZWO6200MC Exposure Info: 270min@5min Gain: 3200 Offset: 180 </p>




Prospective Imaging Objects – November 01, 2024

<p>Perseus Galaxy Cluster Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Cluster Peak: Constellation: Perseus Coordinates: 03hr 19' 58" 41° 29' 13"</p> <p>Close Star: SAO-38592 (Algol) Catalog Objects: Abell-426, NGC1275, 1278, 1272, Et. El.</p> <p>Imaging Window: 09:14 – 04:47 Transit: 12:57 82°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-1333 Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula Peak: November 13 Constellation: Perseus Coordinates: 03hr 29' 15" 31° 20' 12"</p> <p>Close Star: SAO-56799 Catalog Objects: NGC 1333</p> <p>Imaging Window: 09:35 – 04:44 Transit: 01:06 88°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-1360 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Peak: Constellation: Fornax Coordinates: 03hr 33' 15" -25° 52' 16"</p> <p>Close Star: SAO-168460 Catalog Objects: NGC-1360</p> <p>Imaging Window: *11:22 – 03:06 Transit: 01:10 31°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – November 01, 2024

<p>IC-348 Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Perseus Coordinates: 03hr 44' 26" 32° 10' 54"</p> <p>Close Star: SAO-147420 Catalog Objects: IC-348</p> <p>Imaging Window: 09:49 – 05:01 Transit: 01:22 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>IC-342 Config: C11HD ZWO6200MC </p> <p>Type: Barred Spiral Galaxy Peak: Constellation: Camelopardalis Coordinates: 03hr 46' 48" 68° 05' 44"</p> <p>Close Star: SAO-12031 (Segin) Catalog Objects: IC-342</p> <p>Imaging Window: 10:05 – 04:50 Transit: 01:24 55°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Pleiades (M 45) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula Peak: November 16 Constellation: Taurus Coordinates: 03hr 46' 07" 24° 11' 18"</p> <p>Close Star: SAO-56799 Catalog Objects: M45</p> <p>Imaging Window: 10:04 – 04:49 Transit: 01:23 81°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p><small>The Pleiades (M-45) Constellation: Taurus</small></p> <p><small>Image Acquired: 2018-10-08 Location: Mountain View, California, CA Config: C11 HyperStar (HSV) v4 Exposure Info: 300mag/Star (Gain: 118) (Offset: 1%)</small></p>

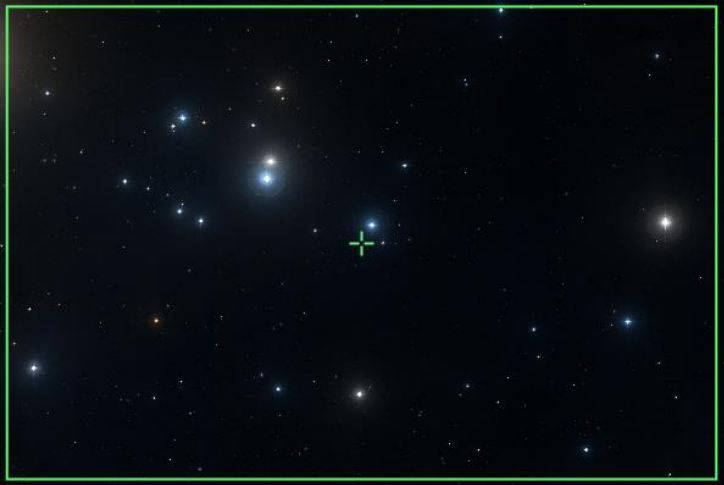

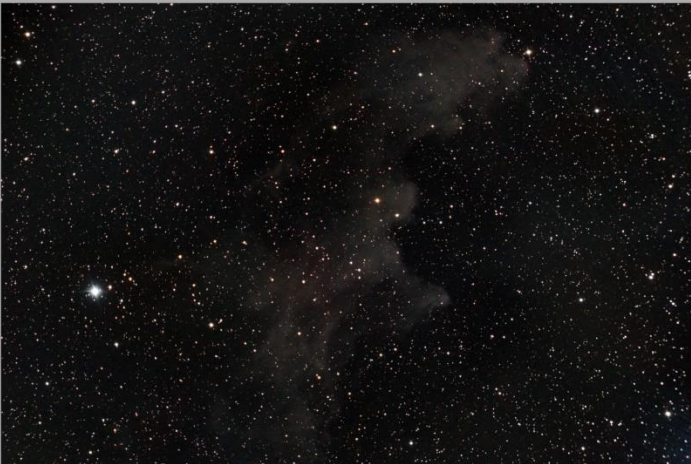
Prospective Imaging Objects – November 01, 2024

<p>Pleiades (M-45) Config: C1 LF ZWO6200MC </p> <p>Type: Bright Nebula Peak: November 16 Constellation: Taurus Coordinates: 03hr 46' 15.932" 24° 12' 07.154"</p> <p>Close Star: SAO-56799 Catalog Objects: M45</p> <p>Imaging Window: 10:04 – 04:49 Transit: 01:23 81°</p>	<p style="text-align: center;">Primary Focus</p> 
<p>California Nebula (NGC 1499) Config: C11-HD HS ZWO6200MC</p> <p>Type: Diffuse Nebula Peak: November 22 Constellation: Perseus Coordinates: 04hr 01' 22" 36° 21' 19"</p> <p>Close Star: SAO-56840 Catalog Objects: NGC 1499</p> <p>Imaging Window: 10:02 – 05:23 Transit: 01:40 87°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>Oyster Nebula (NGC 1501) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Constellation: Camelopardalis Coordinates: 04hr 06' 58" 60° 55' 3.5"</p> <p>Close Star: SAO-038787 (Mirfak) Catalog Objects: NGC-1501</p> <p>Imaging Window: 10:04 – 05:23 Transit: 01:44 62°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

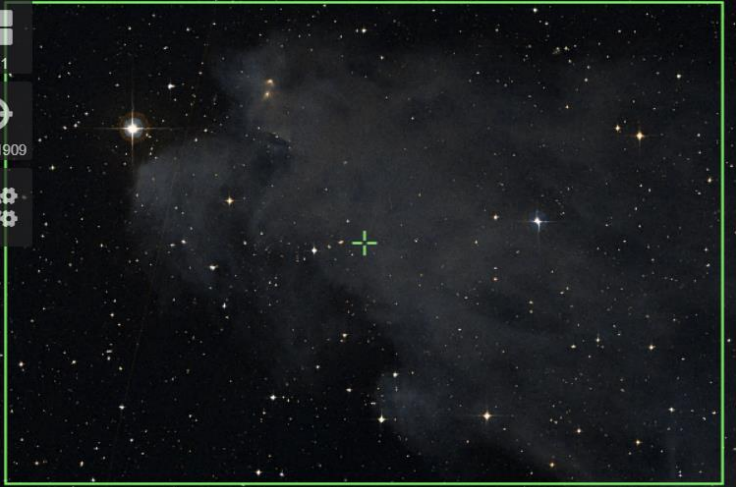


Prospective Imaging Objects – November 01, 2024

<p>Crystal Ball Nebula (NGC 1514) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Constellation: Taurus Coordinates: 04hr 09' 17" 30° 46' 35"</p> <p>Close Star: SAO-56799 Catalog Objects: NGC-1514</p> <p>Imaging Window: 10:16 – 05:23 Transit: 01:46 87°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">NGC-1514 (Crystal Ball Nebula) Constellation: Taurus RA = 04h 09m 17.0s, DEC = +30deg 46' 35.0", Size = 18.5 x 11.9 arcmin, Orientation: 0.4deg E of N, Pixel scale = 0.278 arcseconds (FL = 2000mm)</p> <p style="font-size: x-small; text-align: right;">James Yoder Date: 2024-12-09 Location: Chandler, AZ Config: C-11 HD (SFP) Triad Unit (ZWO6200MC) Exposure Info: 44 Sec/Frame Gain: 100 Offset: 50</p>
<p>Cleopatra's Eye (NGC 1535) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Constellation: Eridanus Coordinates: 04hr 14' 16" -12° 44' 20"</p> <p>Close Star: SAO-131907 (Rigel) Catalog Objects: NGC-1535</p> <p>Imaging Window: *11:45 – 03:59 Transit: 01:51 44°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Planetary Nebula NGC-1535 (Cleopatra's Eye) Constellation: Eridanus RA = 04h 14m 16.0s, DEC = -12deg 44' 20.0", Distance to Rigil = 0.29 arcseconds (FL = 2000mm)</p> <p style="font-size: x-small; text-align: right;">James Yoder Date: 2024-12-09 Location: Chandler, AZ Config: C-11 HD (SFP) Triad Unit (ZWO6200MC) Exposure Information: 30 Sec/Frame Gain: 100 Offset: 50</p>
<p>Hind's Variable Nebula (NGC 1555) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Constellation: Taurus Coordinates: 04hr 21' 54" 19° 32' 00"</p> <p>Close Star: SAO-94027 (Aldebaran) Catalog Objects: NGC-1555</p> <p>Imaging Window: 10:50 – 05:15 Transit: 01:59 76°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> <p style="text-align: center; color: green; font-weight: bold;">FOV 0.73 x 0.48° · RA 04hr 21' 54", DEC 19° 32' 00"</p> 




Prospective Imaging Objects – November 01, 2024

<p>Hyades (Mel 25) Config: C11-HD HS ZWO6200MC</p> <p>Type: Open Cluster Constellation: Taurus Coordinates: 04hr 26' 34" 15° 31' 39"</p> <p>Close Star: SAO-56840 Catalog Objects: Mel 25</p> <p>Imaging Window: 11:03 – 05:17 Transit: 02:07 73°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>Trifid of the North (NGC 1579) Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Perseus Coordinates: 04hr 30' 12" 35° 16' 60"</p> <p>Close Star: SAO-56799 Catalog Objects: NGC-1579</p> <p>Imaging Window: 10:30 – 05:23 Transit: 02:07 88°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Witch Head Nebula (IC 2118) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula Peak: Constellation: Eridanus Coordinates: 05hr 05' 19.872" -06° 56' 00.365"</p> <p>Close Star: SAO-131794 Catalog Objects: IC 2118</p> <p>Imaging Window: *12:11 – 05:17 Transit: 02:39 49°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;"> Witch Head Nebula (IC-2118) Constellation: Eridanus RA = 05h 05m 19.872s DEC = -06deg 56' 00.365" Size = 2.66 x 1.78 deg Pixel scale = 2.27 arcsec/pixel </p> <p style="font-size: x-small; text-align: right;"> James Yoder 2019.09.25 Location: Chandler, AZ Config: C11 HyperStar Baader Skyliner QHY 236 Exposure Info: 54fms @ 90s Gain: 1200 Offset: 180 </p>

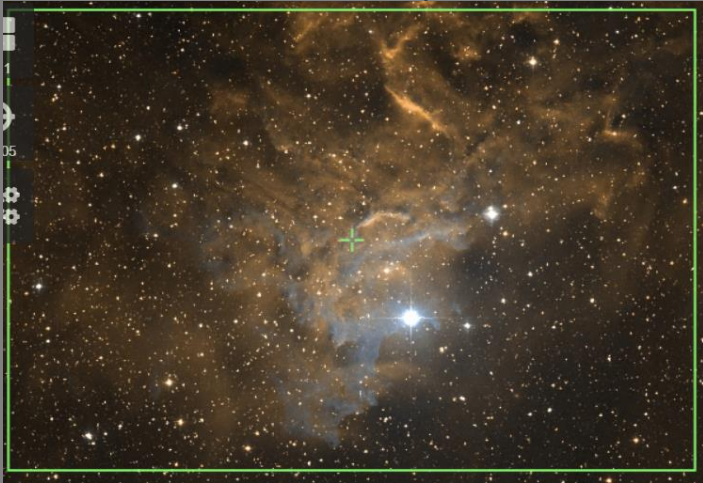


Prospective Imaging Objects – November 01, 2024

<p>Witch Head Nebula (IC 2118) Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Eridanus Coordinates: 05hr 07' 07" -06° 20' 07"</p> <p>Close Star: SAO-131794 Catalog Objects: IC 2118</p> <p>Imaging Window: *12:11 – 05:17 Transit: 02:39 49°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Foxface Nebula (NGC 1788) Config: C11 HS ZWO6200MCc </p> <p>Type: Bright Nebula Peak: Constellation: Orion Coordinates: 05hr 06' 10" -04° 04' 26"</p> <p>Close Star: SAO-131794 Catalog Objects: NGC 1788</p> <p>Imaging Window: 12:57 – 04:38 Transit: 02:44</p>	<p style="text-align: center;">Hyperstar</p> <p style="text-align: center;">FOV 3.80 x 2.54° · RA 05hr 06' 10", DEC -04° 04' 26"</p> 
<p>Foxface Nebula (NGC 1788) Config: C11- HD FR ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Orion Coordinates: 05hr 05' 52" -03° 22' 22"</p> <p>Close Star: SAO-131794 Catalog Objects: NGC 1788</p> <p>Imaging Window: 12:57 – 04:38 Transit: 02:44</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 



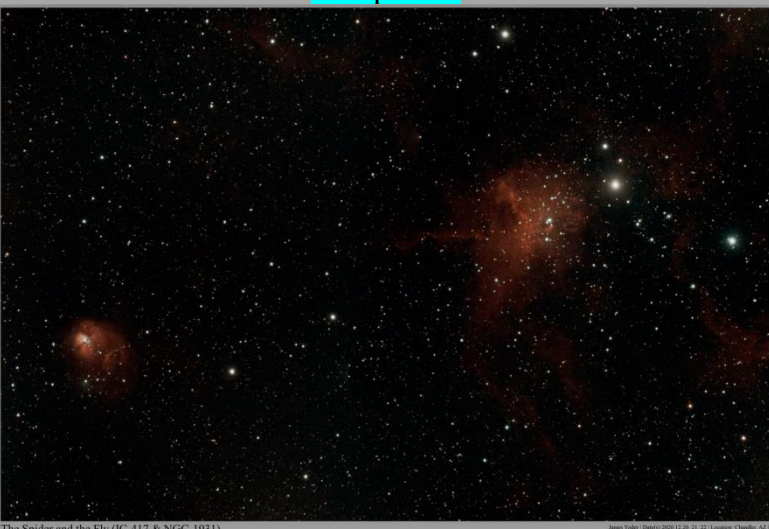
Prospective Imaging Objects – November 01, 2024

<p>Foxface Nebula (NGC 1788) Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Orion Coordinates: 05hr 06' 26" -03° 20' 13"</p> <p>Close Star: SAO-131794 Catalog Objects: NGC 1788</p> <p>Imaging Window: 12:57 – 04:38 Transit: 02:44</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Flaming Star Nebula (IC-405) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula Peak: Constellation: Auriga Coordinates: 05hr 19' 38" 33° 49' 10"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: IC 405, IC 410</p> <p>Imaging Window: 11:19 – 05:23 Transit: 02:54 89°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">Flaming Star Nebula (IC-405, IC-410, IC-417) Constellation: Auriga</p> <p style="font-size: x-small;">Image Date: 2024-09-01 Config: C-11HD HyperStar v4 AmScope C11-CCD QHY170C RA=05h19m35.62s DEC=-33deg49'10.29" Filter:HS v4 Filter:HS v4 Exposure: 10x 300sec (Gain: 200) Offset: 100</p>
<p>Flaming Star Nebula (IC 405) Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Auriga Coordinates: 05hr 15' 55" 34° 29' 08"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: IC 405</p> <p>Imaging Window: 11:19 – 05:23 Transit: 02:54 89°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="font-size: small;">Flaming Star Nebula (IC-405) Constellation: Auriga</p> <p style="font-size: x-small;">Image Date: 2024-09-01 Location: Chandler, AZ Config: C-11 HD (F) Focal Reducer (F) Filter: HS v4 Filter: HS v4 RA=05h15m55.12s DEC=34deg29'08.12" Size=58.8 x 41.7 arcmin Orientation: Mag E of N Pixel scale=0.629 arcsecond (FL=1907mm) Exposure: 10x 300sec (Gain: 200) Offset: 100</p>




Prospective Imaging Objects – November 01, 2024

<p>Flaming Star Nebula (IC 405) Config: C11-HD ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Auriga Coordinates: 05hr 16' 37" 34° 23' 47"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: IC 405</p> <p>Imaging Window: 11:19 – 05:23 Transit: 02:54 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Tadpoles (IC 410) Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Auriga Coordinates: 05hr 22' 54" 33° 23' 31"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: IC 410</p> <p>Imaging Window: 11:25 – 05:23 Transit: 02:59 90°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="font-size: small;">Tadpole Nebula (IC-410) <small>Constellation: Auriga RA = 05h 22m 54.355s, DEC = +33deg 23' 32.44"</small></p> <p style="font-size: x-small; text-align: right;">Image taken: 2023-09-01 Location: Chandler, AZ Config: C-11 HD (8.7 Reducer) Filter: Optolong L-Extreme Camera: QHY128C Exposure Info: 81frames/30min (Gain: 3200) Offset: 100</p>
<p>Tadpoles (IC 410) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Auriga Coordinates: 05hr 22' 37" 33° 23' 03"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: IC 410</p> <p>Imaging Window: 11:25 – 05:23 Transit: 02:59 90°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Tadpole Nebula (IC-410) <small>Constellation: Auriga RA = 05h 22m 37.0197s, DEC = +33deg 23' 03.197"</small></p> <p style="font-size: x-small; text-align: right;">Image taken: 2023-09-01 Location: Chandler, AZ Config: C-11 HD (Antares) Camera: QHY128C Exposure Info: 210frames/30min (Gain: 3200) Offset: 100</p>

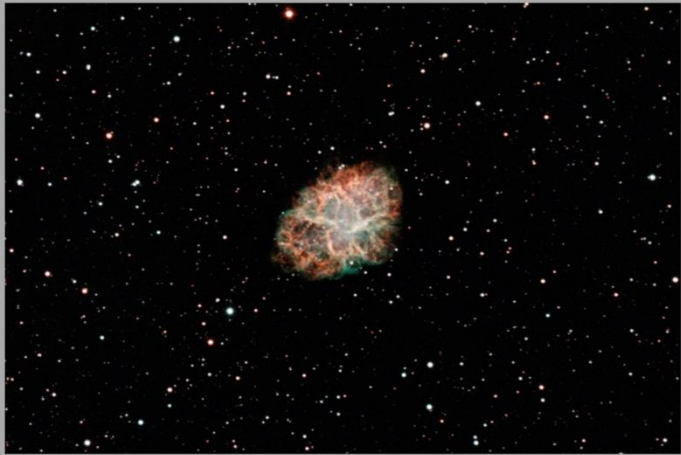

Prospective Imaging Objects – November 01, 2024

<p>M-79 (NGC-1904) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster Peak: Constellation: Lepus Coordinates: 05hr 24' 11" -24° 31' 25"</p> <p>Close Star: SAO-170457 Catalog Objects: M 79</p> <p>Imaging Window: *01:03 – 05:10 Transit: 03:01 32°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Spirograph Nebula (IC 418) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Constellation: Lepus Coordinates: 05hr 27' 28" -12° 41' 48"</p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: IC-418</p> <p>Imaging Window: *12:59 – 05:10 Transit: 03:04 44°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>The Spider and the Fly (M-77, NGC-1055, NGC-1931) Config: C11- HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Auriga</p> <p>Camera Rotation - 90°</p> <p>Frame 01 RA: 05hr 30' 44" DEC: 34° 20' 41" Frame 02 RA: 05hr 27' 55" DEC: 34° 20' 41"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: IC-417, NGC-1931</p> <p>Imaging Window: 11:30 – 05:23 Transit: 03:05 89°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer Composite!</p>  <p><small>The Spider and the Fly (IC-417 & NGC-1931) Constellation: Auriga RA: 05h 29m 17.5s DEC: -15deg 27' 34.90" Star: 68.0 x 45.3 arcsec Observation: 6.5Mag E-oFV, Pixel scale: 6.628 arcsec/pixel FL: 1978mm James Webb Details: 2024-11-01, 21:32 Location: Chandler, AZ Config: C11HD147FocReducer Star: Openbox Camera: QHY 268C Exposure: 30s Filter: Clear Filter Wheel: Starfire Mount: iOptron 100%</small></p>




Prospective Imaging Objects – November 01, 2024

<p>The Spider (IC 417) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Auriga Coordinates: 05hr 28' 03" 34° 22' 58"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: IC 417</p> <p>Imaging Window: 11:30 – 05:23 Transit: 03:05 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Starfish Cluster (M-38) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster Constellation: Auriga Coordinates: 05hr 28' 43" 35° 51' 18"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: M-38</p> <p>Imaging Window: 11:28 – 05:23 Transit: 03:05 88°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p><small>M-38 Starfish Cluster</small></p> <p><small>James Yoder 2019.09.30</small></p>
<p>The Fly (NGC 1931) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Auriga Coordinates: 05hr 31' 24" 34° 15' 00"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: NGC 1931</p> <p>Imaging Window: 11:33 – 05:23 Transit: 03:08 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

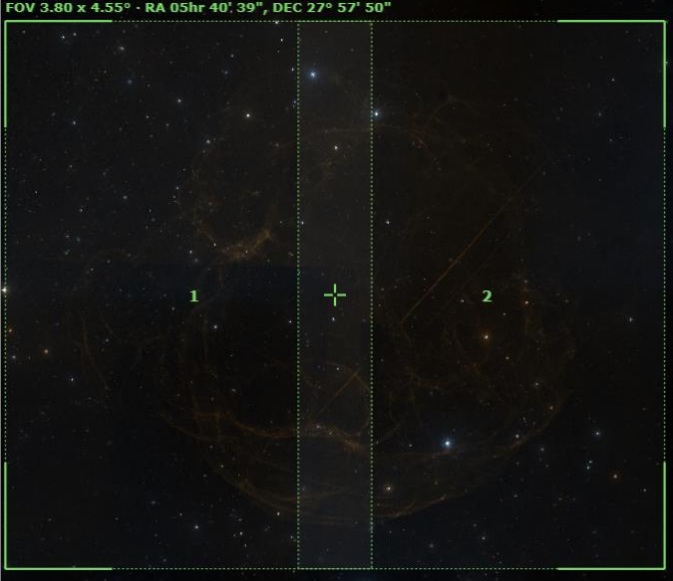
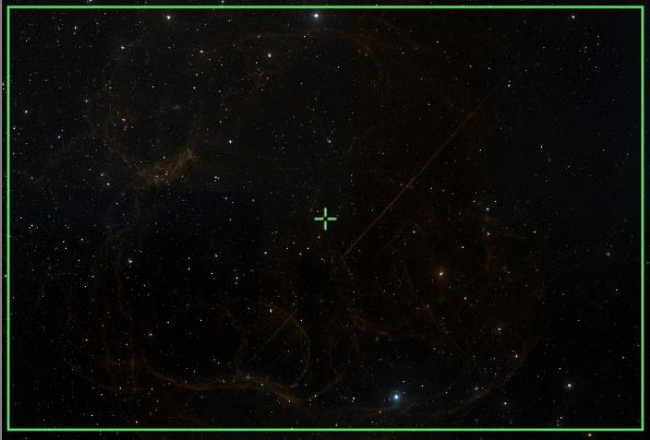
Prospective Imaging Objects – November 01, 2024

<p>Crab Nebula (M 1) Config: C1 LF ZWO6200MC </p> <p>Type: Planetary Nebula Peak: Constellation: Taurus Coordinates: 05hr 34' 30" 22° 00' 59.9"</p> <p>Close Star: SAO-77336 Catalog Objects: M 1</p> <p>Imaging Window: 11:57 – 05:23 Transit: 03:11 79°</p>	<p style="text-align: center;">Primary Focus</p>  <p style="font-size: small;">Crab Nebula (Messier-1) Constellation: Taurus RA = 05h 34m 31.9s DEC = +22deg 00' 34.4" Size = 31.5 x 21.0 arcmin Orientation: -0.34deg Pixel scale = 0.447 arcsec/pixel FL=2756mm James Yoder Dates: 2022-02-05, 07-08, 09, 10 Location: Chandler, AZ Config: C-11 HD 7 Blue OPT Kamin Ultra (QHY128K) Exposure Info: 1756ms@4min Gain: 3200 OBSId: 180</p>
<p>The Orion Complex Config: C11 HS ZWO6200MC</p> <p>Type: Diffuse Nebula Peak: Constellation: Orion Coordinates:</p> <p>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"</p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: M-42</p> <p>Imaging Window: 12:29 – 05:23 Transit: 03:12</p>	<p style="text-align: center;">C-11 HD: HyperStar v4 SUPER-6 Composite!</p> <p style="text-align: center; color: green;">FOV 6.95 x 6.76° - RA 05hr 37' 23", DEC -03° 07' 40"</p> 




Prospective Imaging Objects – November 01, 2024

<p>Running Man Nebula (NGC 1977) Config: C6-HD FR ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Orion Coordinates: 05hr 35' 18.1" -04° 41' 25.9"</p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: NGC-1977</p> <p>Imaging Window: 01:35 – 05:23 Transit: 03:12 52°</p>	<p style="text-align: center;">C-6SE: Primary Focus</p>  <p style="font-size: small;">Running Man Nebula (NGC-1977) © Constellation's Orion the Hunter RA = 05h 35m 18.1s DEC = -04deg 41' 25.9" Orientation: 0.0deg E of N. Pixel scale = 0.51 arcsecond (E=1938nm) James Webb Date: 2024-09-01 Location: Canada, AL Config: C-6SE EPD Radau T1000 ZWO6200MC Exposure: 10 x 120 9000/3000 Gain: 100</p>
<p>Running Man Nebula (NGC 1977) Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Orion Coordinates: 05hr 35' 27" -04° 53' 09"</p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: NGC-1977</p> <p>Imaging Window: 01:35 – 05:23 Transit: 03:12 52°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-36 (NGC-1960) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster Constellation: Auriga Coordinates: 05hr 36' 18" 34° 08' 27"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: M-36/NGC-1960</p> <p>Imaging Window: 11:08 – 05:23 Transit: 03:13 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Pleiades Cluster (M-36, NGC-1960) Constellation: Auriga RA = 05h 36m 18.1s DEC = 34deg 08' 27.0" Orientation: 0.0deg E of N. Pixel scale = 0.51 arcsecond (E=1938nm) James Webb Date: 2024-09-01 Location: Canada, AL Config: C-11 HD EPD Radau T1000 ZWO6200MC Exposure: 10 x 120 9000/3000 Gain: 100</p>




Prospective Imaging Objects – November 01, 2024

<p>Simeis 147 (SH2-240) Config: C11-HD HS ZWO6200MC</p> <p>Type: Diffuse Nebula Constellation: Taurus</p> <p>Camera Rotation - 90° Coordinates: Frame 01 RA: 05hr 45' 38" DEC: 27° 56' 31" Frame 02 RA: 05hr 36' 28" DEC: 27° 56' 31"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: SH2-240</p> <p>Imaging Window: 11:52 – 05:23 Transit: 03:18 85°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4 Composite-2</p> 
<p>Simeis 147 (SH2-240) Config: C11-HD HS ZWO6200MC</p> <p>Type: Diffuse Nebula Constellation: Taurus Coordinates: 05hr 39' 04" 28° 00' 00"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: SH2-240</p> <p>Imaging Window: 11:52 – 05:23 Transit: 03:18 85°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 

Prospective Imaging Objects – November 01, 2024

<p>Flame and Horsehead Nebula (NGC 2024, B 33) Config: C11-HD HS ZWO6200MC</p> <p>Type: Diffuse/Dark Nebula Peak: Constellation: Orion Coordinates: 05hr 40' 04" -02° 28' 13"</p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: NGC-2024, B-33</p> <p>Imaging Window: 01:23 – 05:23 Transit: 03:18 54°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">Horsehead and Flame Nebula Constellation: Orion</p> <p style="font-size: x-small; text-align: right;">Saiph Star - 2019-10-02 Location: M34-000000-000000, 000000, 000000 Config: C11 HyperStar v4 ZWO6200MC Exposure Info: 1000000/Star (Gain: 300) (Offset: 17)</p>
<p>Flame Nebula (NGC 2024) Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Orion Coordinates: 05hr 41' 30" -01° 45' 21"</p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: NGC-2024</p> <p>Imaging Window: 01:23 – 05:23 Transit: 03:18 55°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="font-size: small; text-align: center;">FOV 1.05 x 0.70° - RA 05hr 41' 30", DEC -01° 45' 21"</p>
<p>Flame Nebula (NGC 2024) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Orion Coordinates: 05hr 41' 45.843" -01° 49' 31.401"</p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: NGC-2024</p> <p>Imaging Window: 01:23 – 05:23 Transit: 03:18 55°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: x-small;">Flame Nebula (NGC-2024) Constellation: Orion SAO - 132542 (Saiph) DEC = -01deg 49' 31.401" Size = 42.7 x 28.8 arcmin. Pixel scale = 0.800 arcsec/pixel</p> <p style="font-size: x-small; text-align: right;">Saiph Star - 2019-10-02 Location: M34-000000-000000, 000000, 000000 Config: C11 HD-Subminiature 2.8 x 2.0 ZWO6200MC Exposure Info: 1000000/Star (Gain: 300) (Offset: 18)</p>




Prospective Imaging Objects – November 01, 2024

<p>Horsehead Nebula (B 33) Config: C1 LF ZWO6200MC </p> <p>Type: Dark Nebula Peak: Constellation: Orion Coordinates: 05hr 40' 59" -02° 31' 47"</p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: B 33</p> <p>Imaging Window: 01:26 – 05:23 Transit: 03:18 54°</p>	<p style="text-align: center;">Primary Focus</p>  <p style="font-size: small;">Horsehead Nebula (IC-434) Constellation: Orion</p> <p style="font-size: x-small; text-align: right;">James Yoder - 2018.12.06 Location: Mountain View, AZ Config: C1 Starizona L.F.Reducer / Final Filter / ZWO6200MC Exposure Info: 200x30sec / Gain: 1200 / Offset: 100</p>
<p>NGC 2022 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Peak: Constellation: Orion Coordinates: 05hr 42' 07" 09° 04' 55"</p> <p>Close Star: SAO-112740 (Bellatrix) Catalog Objects: NGC-2022</p> <p>Imaging Window: 12:38 – 05:23 Transit: 03:19 66°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">NGC-2022 Constellation: Orion</p> <p style="font-size: x-small; text-align: right;">James Yoder Direct 2020.12.09, 10 Location: Chandler, AZ Config: C-11 HD EXP1 Final Ultra / ZWO6200MC Exposure Info: 5x 10sec / Gain: 100 / Offset: 50 [RA=05h42m06.6s DEC=+09deg 04' 54.9"] Size = 18.5 x 13.9 arcmin Orientation: 0.3deg E of N Pixel scale = 0.277 arcsecond FL=2800mm</p>
<p>NGC 1961 Config: C11HD ZWO6200MC </p> <p>Type: Spiral Galaxy Peak: Constellation: Camelopardalis Coordinates: 05hr 43' 27" 69° 20' 48"</p> <p>Close Star: SAO-40750 (Menkalinan) Catalog Objects: NGC-1961</p> <p>Imaging Window: 12:07 – 05:23 Transit: 03:19 54°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Galaxy Cluster (NGC-1961 et al.) Constellation: Camelopardalis</p> <p style="font-size: x-small; text-align: right;">James Yoder - 2019.10.25 Location: Mountain View, Arizona, AZ Config: C-11 HD / ZWO6200MC Exposure Info: 10x 30sec / Gain: 200 / Offset: 100</p>

Prospective Imaging Objects – November 01, 2024

<p>M-78 Config: C11- HD FR ZWO6200MC </p> <p>Type: Dark Nebula Peak: Constellation: Orion</p> <p>Frame 01 RA: 05hr 47' 05"DEC: 00° 20' 09"</p> <p>Frame 02 RA: 05hr 47' 05"DEC: -00° 14' 43"</p> <p>Close Star: SAO-132346 (Annilam) Catalog Objects: M-78</p> <p>Imaging Window: 01:18 – 05:23 Transit: 03:23</p>	<p style="text-align: center;">C-11 HD: Focal Reducer Composite!</p> 
<p>M-78 Config: C11- HD FR ZWO6200MC </p> <p>Type: Bright and Dark Nebula Peak: Constellation: Orion Coordinates: 05hr 46' 59" 00° 08' 59"</p> <p>Close Star: SAO-132346 (Annilam) Catalog Objects: M-78</p> <p>Imaging Window: 01:18 – 05:23 Transit: 03:23</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 

Prospective Imaging Objects – November 01, 2024

<p>M-78 Config: C11HD ZWO6200MC </p> <p>Type: Bright and Dark Nebula Peak: Constellation: Orion Coordinates: 05hr 47' 03" 00° 09' 46"</p> <p>Close Star: SAO-132346 (Alnilam) Catalog Objects: M-78</p> <p>Imaging Window: 01:18 – 05:23 Transit: 03:23</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Salt and Pepper Cluster(M-37) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster Constellation: Auriga Coordinates: 05hr 52' 18" 32° 33' 11"</p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: M-37/NGC-2099</p> <p>Imaging Window: 11:56 – 05:23 Transit: 03:29 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>LDN-1622 (Region 01) Config: C11HD ZWO6200MC </p> <p>Type: Dark Nebula & Nebula Peak: Constellation: Orion</p> <p>Coordinates: Pane 1: 05hr 50' 40", 01° 46' 30" Pane 2, 05hr 50' 40", 00° 14' 57"</p> <p>Close Star: SAO-132346 (Alnilam) Catalog Objects: LDN-1622 Imaging Window: 01:18 – 05:23 Transit: 03:31 59°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4 Composite!</p> 


Prospective Imaging Objects – November 01, 2024

<p>LDN-1622 (Region 01) Config: C11HD ZWO6200MC </p> <p>Type: Dark Nebula & Nebula Peak: Constellation: Orion</p> <p>Coordinates: 05hr 51' 00" 00° 59' 47"</p> <p>Close Star: SAO-132346 (Annilam) Catalog Objects: LDN-1622 Imaging Window: 01:18 – 05:23 Transit: 03:31 59°</p>	<p style="text-align: center;">HyperStar</p> 
<p>LDN-1622 (Region 02) Config: C11HD ZWO6200MC </p> <p>Type: Dark Nebula & Nebula Peak: Constellation: Orion</p> <p>Coordinates: 05hr 49' 55" 00° 10' 35"</p> <p>Close Star: SAO-132346 (Annilam) Catalog Objects: LDN-1622 Imaging Window: 01:18 – 05:23 Transit: 03:31 59°</p>	<p style="text-align: center;">HyperStar</p> 
<p>LDN-1622 (Region 03) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright and Dark Nebula Peak: Coordinates: 05hr 54' 51" 01° 47' 10"</p> <p>Close Star: SAO-112740(Bellatrix) Catalog Objects: LDN-1622</p> <p>Imaging Window: 01:18 – 05:23 Transit: 03:31 59°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 

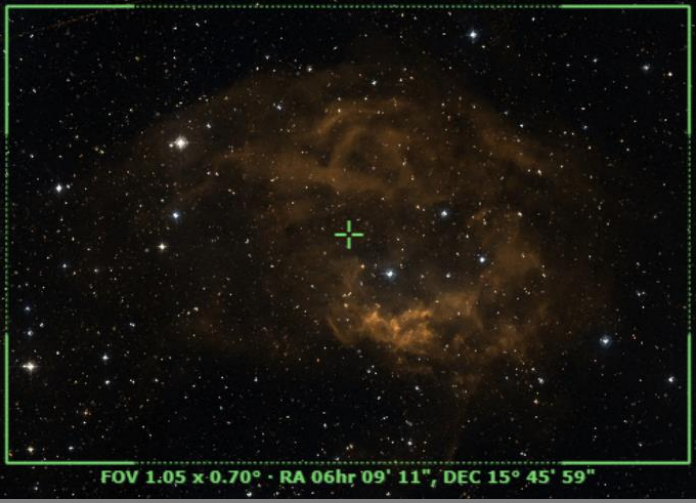
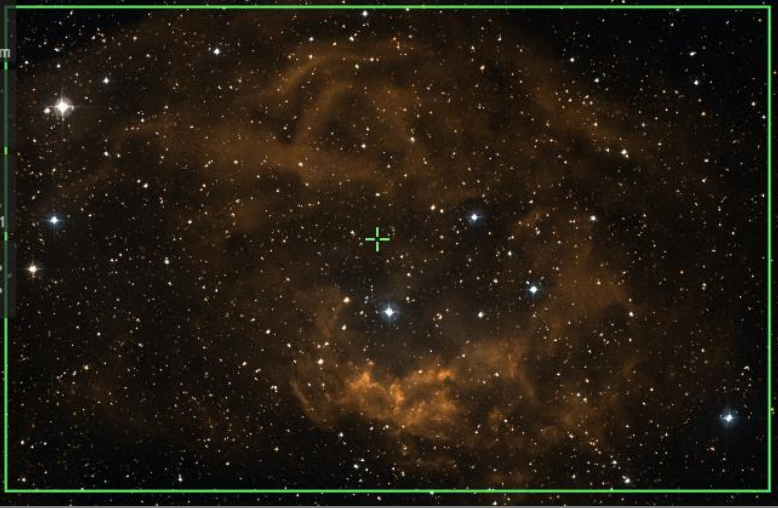

Prospective Imaging Objects – November 01, 2024

<p>LDN 1622 Config: C11HD ZWO6200MC </p> <p>Type: Dark Nebula Peak: Constellation: Orion</p> <p>Camera Rotation - 90° Frame 01 RA: 05hr 56' 28"DEC: 01° 58' 32" Frame 02 RA: 05hr 54' 08"DEC: 01° 58' 35"</p> <p>Close Star: SAO-132346 (Anilam) Catalog Objects: LDN-1622</p> <p>Imaging Window: 01:18 – 05:23 Transit: 03:31 59°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer Composite!</p> 
<p>LDN-1622 Config: C11HD FR ZWO6200MC </p> <p>Type: Bright and Dark Nebula Peak: Constellation: Orion Coordinates: 05hr 54' 52" 01° 49' 51"</p> <p>Close Star: SAO-112740(Bellatrix) Catalog Objects: LDN-1622</p> <p>Imaging Window: 01:18 – 05:23 Transit: 03:31 59°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>LDN 1622 Config: C11HD ZWO6200MC </p> <p>Type: Dark Nebula Peak: Constellation: Orion Coordinates: 05hr 54' 55" 01° 49' 49"</p> <p>Close Star: SAO-132346 (Anilam) Catalog Objects: LDN-1622</p> <p>Imaging Window: 01:18 – 05:23 Transit: 03:31 59°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

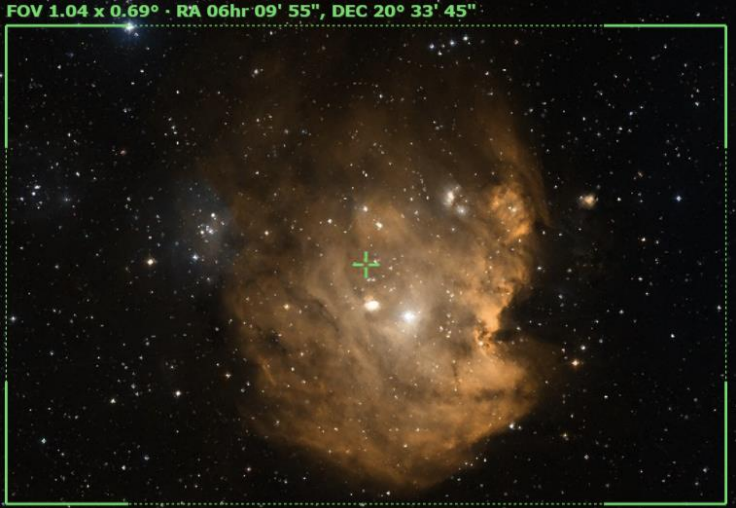


Prospective Imaging Objects – November 01, 2024

<p>Angel Nebula (NGC 2170) Config: C11- HD FR ZWO6200MC </p> <p>Type: Bright and Dark Nebula Peak: Constellation: Monoceros Coordinates: 06hr 08' 26" -06° 25' 24"</p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: NGC-2170</p> <p>Imaging Window: 02:19 – 05:23 Transit: 03:44</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Angel Nebula (NGC 2170) Config: C11-HD ZWO6200MC </p> <p>Type: Bright and Dark Nebula Peak: Constellation: Monoceros Coordinates: 06hr 08' 26" -06° 25' 24"</p> <p>Close Star: SAO-132542 (Saiph) Catalog Objects: NGC-2170</p> <p>Imaging Window: 02:19 – 05:23 Transit: 03:44</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Angel Nebula (NGC-2170) <small>Constellation: Monoceros SAO-132542 (Saiph) (RA=06h 08m 26s, DEC=-06° 25' 24") (Size=+1.2 x 2.1 arcmin) (Orientation: Edge E of N, Pixel scale=0.445 arcsec/pixel) (11=0.90mm)</small></p>
<p>IC-2162 & SH 2-261 Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Orion Coordinates: 06hr 10' 56" 16° 32' 17" Angle: 90° East</p> <p>Close Star: SAO-78297 (Calix) Catalog Objects: IC-2162 Sh 2-261</p> <p>Imaging Window: 12:46 – 05:23 Transit: 03:45 72°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 


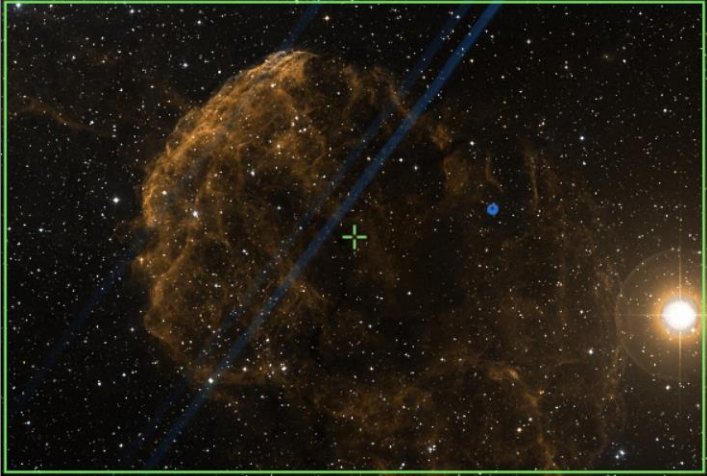

Prospective Imaging Objects – November 01, 2024

<p>Lower's Nebula (Sh 2-261) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Orion Coordinates: 06hr 09' 11" 15° 45' 59"</p> <p>Close Star: SAO-78297 (Calix) Catalog Objects: Sh 2-261</p> <p>Imaging Window: 12:46 – 05:53 Transit: 03:45 72°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="text-align: center;">FOV 1.05 x 0.70° · RA 06hr 09' 11\", DEC 15° 45' 59"</p>
<p>Lower's Nebula (Sh 2-261) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Orion Coordinates: 06hr 08' 59" 15° 46' 39"</p> <p>Close Star: SAO-78297 (Calix) Catalog Objects: Sh 2-261</p> <p>Imaging Window: 12:46 – 05:53 Transit: 03:45 72°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-35, NGC-2158 Config: C11- HD FR ZWO6200MC </p> <p>Type: Open Cluster Pair Constellation: Gemini Coordinates: 06hr 08' 39" 24° 14' 48"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: M-35/NGC-2168, NGC-2158</p> <p>Imaging Window: 12:27 – 05:23 Transit: 03:46 81°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 

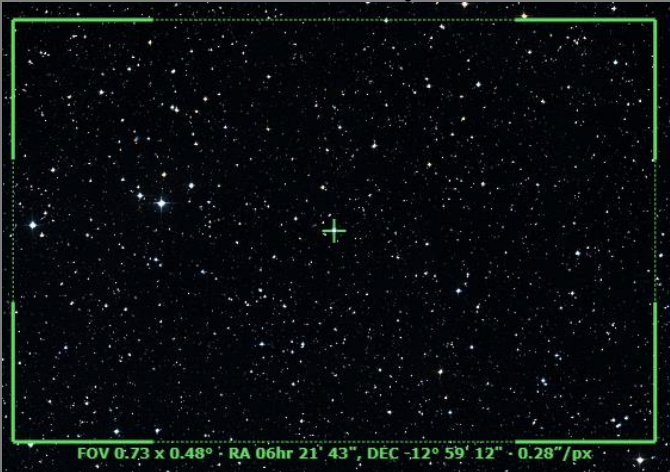


Prospective Imaging Objects – November 01, 2024

<p>Monkey Head (NGC-2174) Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Orion Coordinates: 06hr 09' 50" 20° 29' 50"</p> <p>Close Star: SAO-78297 (Calix) Catalog Objects: NGC-2174/Sh 2-252</p> <p>Imaging Window: 12:35 – 05:23 Transit: 03:46 77°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> <p style="text-align: center;">FOV 1.04 x 0.69° · RA 06hr 09' 55", DEC 20° 33' 45"</p> 
<p>Monkey Head (NGC 2174) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Orion Coordinates: 06hr 09' 50" 20° 29' 50"</p> <p>Close Star: SAO-78297 (Calix) Catalog Objects: NGC-2174/Sh 2-252</p> <p>Imaging Window: 12:35 – 05:23 Transit: 03:46 77°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Monkey Head Nebula (NGC-2174) Constellation: Orion RA = 06h 09m 49.310s, DEC = +20deg 29' 52.185" Size = 33.1 x 26.0 arcmin Pixel scale = 0.446 arcsec/pixel F1 = 2.72mm James Yoder 2024-02-14 Location: Chandler, AZ Config: C-11 HD Astromaster C11ACD QHY135L1 Exposure Info: 27Times@15sec Gain: 3200 ISO: 190</p>
<p>IC 2162 Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Orion Coordinates: 06hr 12' 25" 17° 59' 26"</p> <p>Close Star: SAO-78297 (Calix) Catalog Objects: IC-2162</p> <p>Imaging Window: 12:44 – 05:23 Transit: 03:50 75°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Bright Nebula IC-2162 Constellation: Orion RA = 06h 12m 18.460s, DEC = +17deg 59' 18.231" Size = 42.3 x 23.87 arcmin Pixel scale = 0.441 arcsec/pixel James Yoder 2024-01-25 Location: Chandler, AZ Config: C-11 HD Astromaster C11ACD QHY135L1 Exposure Info: 220Times@15sec Gain: 3200 ISO: 190</p>



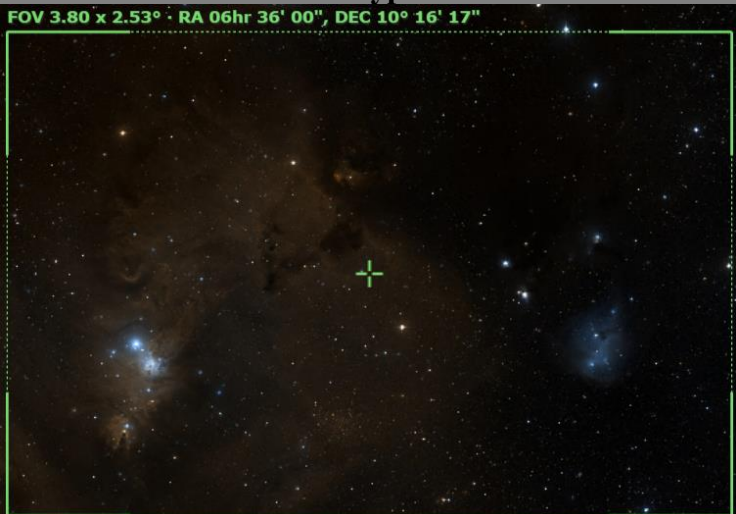
Prospective Imaging Objects – November 01, 2024

<p>Jellyfish Nebula (IC 443) Config: C11-HD HS ZWO6200MC</p> <p>Type: Supernova Remnant Peak: Constellation: Gemini Coordinates: 06hr 19' 56" 23° 06' 17"</p> <p>Close Star: SAO-78297 (Calix) Catalog Objects: IC-443</p> <p>Imaging Window: 12:39 – 05:23 Transit: 03:54 79°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">Jellyfish Nebula (IC-443) Constellation: Gemini <small>RA = 23h 19m 25.0s DEC = +06deg 31' 18.6" Size = 3.34 x 2.89 deg Orientation: obj E of N Pixel scale = 2.28 arcsecond FL = 540mm</small></p> <p style="font-size: x-small; text-align: right;">James Taylor Date: 2024-10-21 Location: Chandler, AZ Config: C-11HD HyperStar V4 Astromomik CLS-CDD (QHY12K) Exposure info: 25frames/area Gain: 3200 Offset: 100</p>
<p>Jellyfish Nebula (IC 443) Config: C11-HD FR ZWO6200MC </p> <p>Type: Supernova Remnant Peak: Constellation: Gemini Coordinates: 06hr 16' 59" 22° 37' 29"</p> <p>Close Star: SAO-78297 (Calix) Catalog Objects: IC-443</p> <p>Imaging Window: 12:39 – 05:23 Transit: 03:54 79°</p>	<p style="text-align: center;">C11-HD: Focal Reducer</p>  <p style="font-size: small;">Jellyfish nebula (IC 443) Constellation: Gemini</p> <p style="font-size: x-small; text-align: right;">James Taylor Location: Chandler, AZ Config: C11 Starizona L4 Corrector QHY12K Filter QHY12K Exposure info: 10frames/area Gain: 3200 Offset: 100</p>
<p>Jellyfish Nebula (IC 443) Config: C11 LF ZWO6200MC </p> <p>Type: Supernova Remnant Peak: Constellation: Gemini Coordinates: 06hr 16' 51" 22° 36' 34"</p> <p>Close Star: SAO-78297 (Calix) Catalog Objects: IC-443</p> <p>Imaging Window: 12:39 – 05:23 Transit: 03:54 79°</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;">James Taylor Location: Chandler, AZ Config: C11 Starizona L4 Corrector QHY12K Filter QHY12K Exposure info: 10frames/area Gain: 3200 Offset: 100</p>

Prospective Imaging Objects – November 01, 2024

<p>IC-2165 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Peak: Constellation: Canis Major Coordinates: 06hr 21' 43" -12° 59' 12"</p> <p>Close Star: Catalog Objects: IC-2165</p> <p>Imaging Window: *01:55 – 05:23 Transit: 03:58 44°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>SH 2-249 Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Gemini Coordinates: 06hr 19' 15" 23° 24' 58"</p> <p>Close Star: SAO-78297 (Calix) Catalog Objects: SH 2-249</p> <p>Imaging Window: 12:43 – 05:23 Transit: 03:59 80°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Rosette Nebula (NGC 2237) Config: C11-HD HS ZWO6200MC</p> <p>Type: Diffuse Nebula Constellation: Monoceros Coordinates: 06hr 31' 53.37" 04° 50' 45.29"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2237 ,NGC-2244</p> <p>Imaging Window: 01:41 – 05:23 Transit: 04:07 62°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 

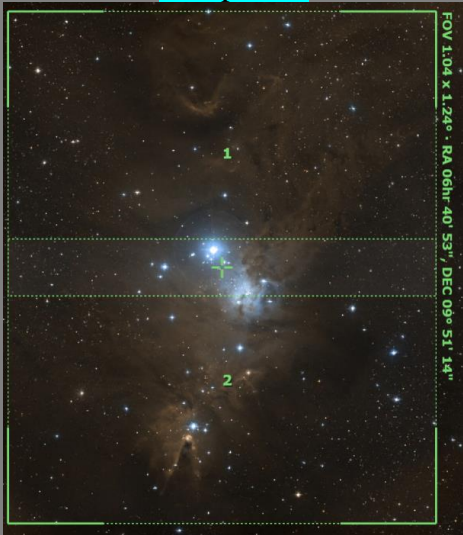
Prospective Imaging Objects – November 01, 2024

<p>Rosette Nebula (NGC 2237) Config: C11- HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Monoceros Coordinates: 06hr 32' 01" 04° 59' 28"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2237</p> <p>Imaging Window: 01:41 – 05:23 Transit: 04:07 62°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Rosette Nebula (NGC 2237) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Monoceros Coordinates: 06hr 32' 02" 04° 58' 14"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2237</p> <p>Imaging Window: 01:41 – 05:23 Transit: 04:07 62°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>IC-2169 Config: C11 HS ZWO6200MC</p> <p>Type: Bright Nebula Peak: Constellation: Monoceros Coordinates: 06hr 36' 00" 10° 16' 17"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: IC-2169</p> <p>Imaging Window: 01:24 – 05:23 Transit: 04:08 80°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> <p style="text-align: center;">FOV 3.80 x 2.53° : RA 06hr 36' 00", DEC 10° 16' 17"</p> 



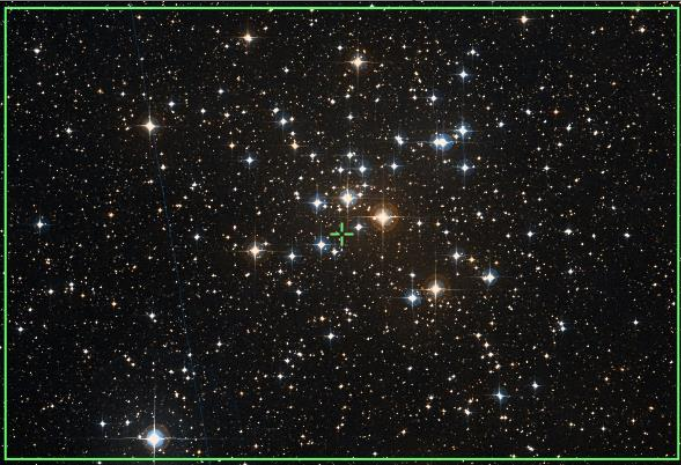
Prospective Imaging Objects – November 01, 2024

<p>IC 2169 Config: C11- HD FR ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Monoceros Coordinates: 06hr 31' 21" 09° 56' 20"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: IC-2169</p> <p>Imaging Window: 01:24 – 05:23 Transit: 04:08 80°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>IC 2169 Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula Peak: Constellation: Monoceros Coordinates: 06hr 31' 36" 09° 58' 16"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: IC-2169</p> <p>Imaging Window: 01:24 – 05:23 Transit: 04:08 80°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Hubble's Variable Nebula (NGC 2261) Config: C11HD ZWO6200MC </p> <p>Type: Reflection Nebula Constellation: Monoceros Coordinates: 06hr 39' 12" 08° 45' 00"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2261</p> <p>Imaging Window: 01:36 – 05:23 Transit: 04:16 65°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – November 01, 2024

<p>Christmas Tree & Cone Config: C11- HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Coordinates: Pane 1: 06hr 40' 53", 10° 07' 47" Pane 2, 06hr 40' 53", 09° 34' 40"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2264/Sh 2-273</p> <p>Imaging Window: 01:34 – 05:23 Transit: 04:17 67°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer Composite!</p> 
<p>Christmas Tree & Cone Config: C11- HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Monoceros</p> <p>Coordinates: 06hr 40' 47" 09° 42' 40" Angle: 90° East</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2264/Sh 2-273</p> <p>Imaging Window: 01:34 – 05:23 Transit: 04:17 67°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Christmas Tree Cluster (NGC 2264) Config: C1 LF ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Monoceros</p> <p>Coordinates: 06hr 40' 58.74" 09° 53' 32.69"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2264/Sh 2-273</p> <p>Imaging Window: 01:34 – 05:23 Transit: 04:17 67°</p>	<p style="text-align: center;">Primary Focus</p> 




Prospective Imaging Objects – November 01, 2024

<p>Christmas Tree & Cone Config: C6FR ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Monoceros Coordinates: 06hr 40' 51.6" 09° 40' 25.2" Angle: 90° East</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2264/Sh 2-273</p> <p>Imaging Window: 01:34 – 05:23 Transit: 04:17 67°</p>	<p>C-6 HD: Focal Reducer</p>  <p><small>NGC-2264 (Cone & Christmas Tree Nebula) Constellation: Monoceros J2000 - RA = 06h 40m 51.6s DEC = +09deg 40' 25.2" Size = 55.0 x 36.7 arcmin Orientation: 270deg E of N Pixel scale = 0.667 arcsec/pixel (FX=1166mm) Name: Video Date(s): 2024-09-26-27 Location: Chandler, AZ Config: C-6SE 0.63 Focal Reducer OPI Reddot Triad Ultra ZWO6200MC Exposure Info: 133.frm@2min Gain: 100</small></p>
<p>Cone Nebula-1 (NGC 2264) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Monoceros Coordinates: 06hr 41' 07" 09° 27' 52"</p> <p>Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2264/Sh 2-273</p> <p>Imaging Window: 01:34 – 05:23 Transit: 04:17 67°</p>	<p>C-11 HD: Primary Focus</p> 
<p>M-41 (NGC 2287) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster Constellation: Canis Major Coordinates: 06hr 46' 09" 20° 47' 35"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: M-41/NGC 2287</p> <p>Imaging Window: *01:52 – 05:23 Transit: 04:23 36°</p>	<p>C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – November 01, 2024

<p>M-50 (NGC 2323) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster Constellation: Monoceros Coordinates: 07hr 02' 48" -08° 22' 33"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: M-50/NGC 2323</p> <p>Imaging Window: *02:10 – 05:23 Transit: 04:39 48°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Seagull Nebula (IC-2177) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Monoceros Coordinates: 07hr 06' 20" -11° 06' 56"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: IC-2177</p> <p>Imaging Window: *02:25 – 05:23 Transit: 04:41 46°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4 - 90° Rotation</p>  <p><small>Seagull Nebula (IC-2177, NGC-2327, NGC-2335, NGC-2343) Constellation: Monoceros RA = 07h 06m 17.6s DEC = -11deg 02' 21.2" Size = 210 x 140 pixels Orientation = 89deg E of N Pixel scale = 2.27x arcsecond (1.543mas)</small></p> <p><small>James Webb Photo 2021-01-06 10:11:35 (Location: Chandra A2) Config: C-11HD HyperStar V4 Operating LoXrtime = 0419.226s Exposure Info: 107Frames/Stack Gain: 5200 (40Sec: 181)</small></p>
<p>Seagull Nebula (IC 2177) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Monoceros Coordinates: 07hr 04' 47" -10° 27' 49"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: IC-2177</p> <p>Imaging Window: *02:25 – 05:23 Transit: 04:41 46°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 


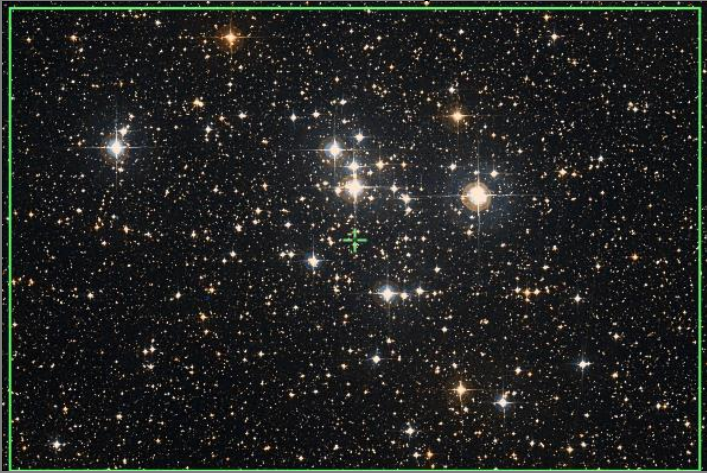

Prospective Imaging Objects – November 01, 2024

<p>Hourglass Nebula (NGC-2346) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Peak: Constellation: Monoceros Coordinates: 07hr 09' 23" 00° 48' 22"</p> <p>Close Star: SAO-115756 (Procyon) Catalog Objects: NGC-2346</p> <p>Imaging Window: *01:44 – 05:23 Transit: 04:46 56°</p>	<p style="text-align: center;">C-11 HD: Primary Focus x2</p>  <p style="font-size: small; text-align: center;">Planetary Nebula NGC-2346 <small>Constellation: Monoceros RA: 07h 09m 23s DEC: +00d 48m 22s Size: 25.7 x 17.1 arcmin Observed: 08/25/2024 (Dob) Filter: 3278 nm (red) FIT: 200nm Date: 07/11/2024 Filter: 3278 nm (red) Camera: ZWO6200MC Exposure: 100 Gain: 100 Offset: 0</small></p>
<p>Integral Sign Galaxy (UGC 3697) Config: C11HD FR ZWO6200MC </p> <p>Type: Galaxy Group Constellation: Camelopardalis Coordinates: 07hr 11' 40" 71° 56' 04"</p> <p>Close Star: SAO-40186 (Capella) Catalog Objects: UGC-3697, UGC-3714, UGC-3701</p> <p>Imaging Window: 01:54 – 05:23 Transit: 04:48 52°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Integral Sign Galaxy (UGC 3697) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Constellation: Camelopardalis Coordinates: 07hr 11' 50" 71° 48' 14"</p> <p>Close Star: SAO-40186 (Capella) Catalog Objects: UGC-3697, UGC-3714, UGC-3701</p> <p>Imaging Window: 01:54 – 05:23 Transit: 04:48 52°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

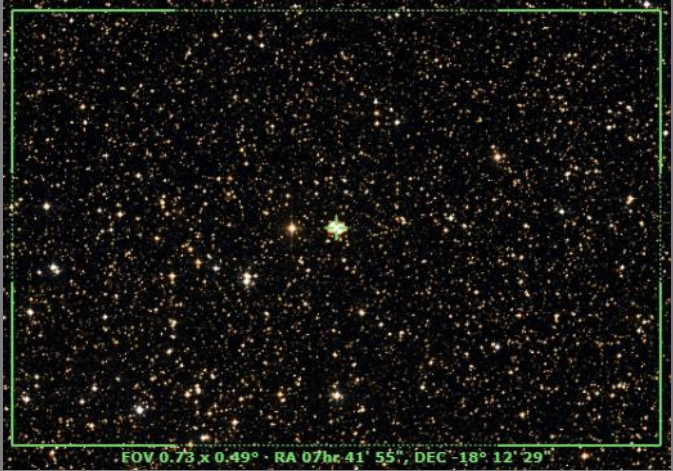
Prospective Imaging Objects – November 01, 2024

<p>Thor's Helmet (NGC-2359) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Constellation: Canis Major Coordinates: 07h 18' 26.223" -13° 15' 29.563"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: NGC-2359/ Sh2-298/ LBN1041</p> <p>Imaging Window: *02:55 – 05:23 Transit: 04:55 43°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Thor's Helmet (NGC 2359) Constellation: Canis Major</p> <p style="font-size: x-small; text-align: right;">James Yoder Direct 2023-11-01 Location: Chandler, AZ Config: C-11 HD Primary Focus Filter: OIII+IR Exposure Info: (00min)Gain: Gain: 3200 Offset: 100</p>
<p>Candy Wrapper (NGC-2371) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Constellation: Gemini Coordinates: 07° 25' 34" 29° 29' 18"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: NGC-2371</p> <p>Imaging Window: 01:34 – 05:23 Transit: 05:02 86°</p>	<p style="text-align: center;">C-11 HD: Primary Focus x2</p>  <p style="font-size: x-small;">Candy Wrapper (NGC 2371) Constellation: Gemini</p> <p style="font-size: x-small; text-align: right;">James Yoder Direct 2023-11-01 Location: Chandler, AZ Config: C-11 HD Primary Focus Filter: OIII+IR Exposure Info: (00min)Gain: Gain: 3200 Offset: 100</p>
<p>Medusa Nebula (Abell 21) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Gemini Coordinates: 07h 29' 00" 13° 15' 00"</p> <p>Close Star: SAO-115756 (Procyon) Catalog Objects: Abell 21</p> <p>Imaging Window: 02:12 – 05:23 Transit: 05:06 70°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: x-small;">Abell-21 (Medusa Nebula) Constellation: Gemini RA = 7h 29m 54.9s Dec = 13deg 15' 20.8" Size = 38.7 x 26.1 arcmin Orientation: 0.0deg E of N Pixel scale = 0.579 arcsec/pixel FL=1720mm</p> <p style="font-size: x-small; text-align: right;">James Yoder Direct 2023-11-25 20:27:38 2020-02-02 03:11 Location: Chandler, AZ Config: C-11 HD Primary Focus Filter: OIII+IR Exposure Info: 300min@Gain Gain: 3200 Offset: 100</p>

Prospective Imaging Objects – November 01, 2024

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

Prospective Imaging Objects – November 01, 2024

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

Prospective Imaging Objects – November 01, 2024

Butterfly Cluster (M-93, NGC-2447)

Config: |C11HD|ZWO6200MC|

Type: **Open Cluster**

Constellation: **Puppis**

Coordinates:
07h 44' 46"
-23° 51' 52"

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

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

Imaging Window: ***03:10 – 05:23**

Transit: **05:21** | **33°**

C-11 HD: Primary Focus



Blank
Page

Prospective Imaging Objects – November 01, 2024

Imaging Summary November 01, 2024

Astronomical Dusk = 06:59

Astronomical Dawn = 05:23

HyperStar: Nebula

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

Prospective Imaging Objects – November 01, 2024

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

Imaging Summary November 01, 2024

Astronomical Dusk = 06:59

Astronomical Dawn = 05:23

HyperStar: Broad Spectrum

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

Prospective Imaging Objects – November 01, 2024

Imaging Summary November 01, 2024

Astronomical Dusk = 06:59

Astronomical Dawn = 05:23

Focal Reducer: Nebula

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

Prospective Imaging Objects – November 01, 2024

Imaging Summary November 01, 2024

Astronomical Dusk = 06:59

Astronomical Dawn = 05:23

Focal Reducer: Broad Spectrum

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

Prospective Imaging Objects – November 01, 2024

Imaging Summary November 01, 2024

Astronomical Dusk = 06:59

Astronomical Dawn = 05:23

Primary Focus: Nebula

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

Prospective Imaging Objects – November 01, 2024

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

Prospective Imaging Objects – November 01, 2024

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

Imaging Summary November 01, 2024

Astronomical Dusk = 06:59

Astronomical Dawn = 05:23

Primary Focus: Broad Spectrum

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

Prospective Imaging Objects – November 01, 2024

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

Prospective Imaging Objects – November 01, 2024

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

Prospective Imaging Objects – November 01, 2024

Imaging Summary November 01, 2024

Astronomical Dusk = 06:59

Astronomical Dawn = 05:23

Primary Prospects

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

Prospective Imaging Objects – November 01, 2024

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

Prospective Imaging Objects – November 01, 2024

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

Prospective Imaging Objects – November 01, 2024

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

Prospective Imaging Objects – November 01, 2024

Imaging Summary November 01, 2024

Astronomical Dusk = 06:59

Astronomical Dawn = 05:23

Imaging Plans

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