

Prospective Imaging Objects – August 04 2024

Astronomical Data

Sunrise	Sunset	Astronomical Dusk	Astronomical Dawn	Imaging	New Moon
05:43am	07:23 pm	08:56 pm	04:10 am	07:14	August 04

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

The diagram illustrates the layout of the object information section. It features a list of details on the left and a thumbnail image of the Sculptor Galaxy (NGC 253) on the right. Eight numbered callouts (01-08) point to specific elements:




- 01:** Points to the background fill color of the object information section.
- 02:** Points to the object name and catalog number: "Sculptor Galaxy (NGC 253)".
- 03:** Points to the configuration: "Config: C11 | LF Corr | 128c".
- 04:** Points to the object image thumbnail.
- 05:** Points to the close star: "Close Star: SAO-147420".
- 06:** Points to the catalog objects: "Catalog Objects: NGC 253".
- 07:** Points to the imaging window: "Imaging Window: *10:44 – 02:44".
- 08:** Points to the transit time: "Transit: 12:48".

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




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<p>Little Ghost (NGC-6369) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Ophiuchus Coordinates: 17h 29' 20" -23° 45' 33"</p> <p>Close Star: SAO-160006 (zeta Ophi) Catalog Objects: NGC-6369 Imaging Window: *08:56 – 11:13 Transit: 08:58 33°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-14(NGC-6402) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Ophiuchus Coordinates: 17h 37' 36" -03° 14' 43"</p> <p>Close Star: SAO-160006 (zeta Ophi) Catalog Objects: M-14/NGC-6402 Imaging Window: 08:56 – 11:00 Transit: 09:06 53°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Butterfly Cluster(M-6) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Scorpius Coordinates: 17h 40' 20" -32° 15' 30"</p> <p>Close Star: SAO-210091 (Kaus Aus.) Catalog Objects: M-6/NGC-6405 Imaging Window: *08:56 – 10:50 Transit: 09:09 24°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

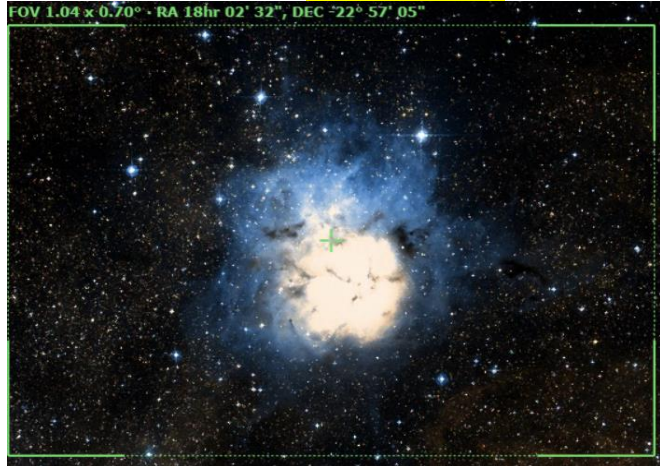


Prospective Imaging Objects – August 04 2024

<p>Praying Matis Nebula (B-84) Config: C11HD ZWO6200MC </p> <p>Type: Dark Nebula</p> <p>Constellation: Sagittarius Coordinates: 17h 46' 24" -20° 08' 31"</p> <p>Close Star: SAO-210091 (Kaus Aus.) Catalog Objects: B-84/LDN-235 Imaging Window: *08:56 – 11:54 Transit: 09:15 36°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p><small>Praying Matis Nebula (Dark Nebula B84)</small></p>
<p>Box Nebula (NGC-6445) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Sagittarius Coordinates: 17h 49' 15" -20° 00' 32"</p> <p>Close Star: SAO-210091 (Kaus Aus.) Catalog Objects: NGC-6445 Imaging Window: *08:56 – 11:54 Transit: 09:18 37°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p><small>Box Nebula (Little Gem) (NGC-6445)</small></p>
<p>Ptolemy Cluster (M-7) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Scorpius Coordinates: 17h 53' 39" -34° 48' 53"</p> <p>Close Star: SAO-210091 (Kaus Aus.) Catalog Objects: M-7/NGC-6475 Imaging Window: *08:56 – 10:28 Transit: 09:22 22°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




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<p>M-23(NGC-6494) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Sagittarius Coordinates: 17h 56' 56" -19° 00' 42"</p> <p>Close Star: SAO-184415 (Antares) Catalog Objects: M-23/NGC-6494 Imaging Window: *08:56 – 12:12 Transit: 09:26 38°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Cat's Eye Nebula (NGC-6543) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Draco Coordinates: 17h 59' 00" 66° 37' 39"</p> <p>Close Star: SAO-18222 (Altais) Catalog Objects: NGC-6543 Imaging Window: 08:56 – 12:58 Transit: 09:27 57°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small; text-align: center;">Cat's Eye Nebula (NGC-6543) Constellation: Draco RA: 17h 59m 24s DEC: +66deg 37' 39.0" Size: 48.8 x 27.2 arcmin Orientation: 0.11 deg @ 10% Field scale: ~0.441 arcmin/pixel FL: 2000mm</p> <p style="font-size: x-small; text-align: right;">Astro-Video (Date: 2024-07-11 Location: Chantilly, VA Config: C11HD ZWO6200MC CCD: ZWO6200 Exposure: 10 Filter: None Gain: 1200 Offset: 100</p>
<p>Lagoon Region Config: C11-HD HS ZWO6200MC</p> <p>Type: Diffuse Nebula</p> <p>Constellation: Sagittarius Coordinates: 18h 05' 54" -23° 56' 32"</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: M-8/NGC-6523, M-20, NGC-6544 Imaging Window: *08:56 – 11:39 Transit: 09:32 32°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: x-small; text-align: center;">M-8 Region Constellation: Sagittarius RA: 18h 05m 54.00s DEC: -23deg 56' 32.00" Size: 12.0 x 11.0 arcmin Orientation: 0.00 deg @ 100% Field scale: 1.00 arcmin/pixel FL: 2000mm</p> <p style="font-size: x-small; text-align: right;">Astro-Video (Date: 2024-07-11 Location: Chantilly, VA Config: C11HD HyperStar v4 CCD: ZWO6200 Exposure: 10 Filter: None Gain: 1200 Offset: 100</p>




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<p>Trifid Nebula(M-20) Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Sagittarius Coordinates: 18h 02' 32" -22° 57' 05"</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: M-20/NGC-6514 Imaging Window: *08:56 – 11:50 Transit: 09:31 34°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Trifid Nebula(M-20) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Sagittarius Coordinates: 18h 02' 42" -22° 57' 60"</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: M-20/NGC-6514 Imaging Window: *08:56 – 11:50 Transit: 09:31 34°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Lagoon Nebula (M-8) Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Sagittarius Coordinates: Frame1 RA 18h:02':35\" DEC -24°:19':48 Frame2 RA 18h:05':21\" DEC -24°:20':12 Rotation: 90°</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: M-8/NGC-6523</p> <p>Imaging Window: *08:56 – 11:39 Transit: 09:32 32°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer Composite!-2</p> 

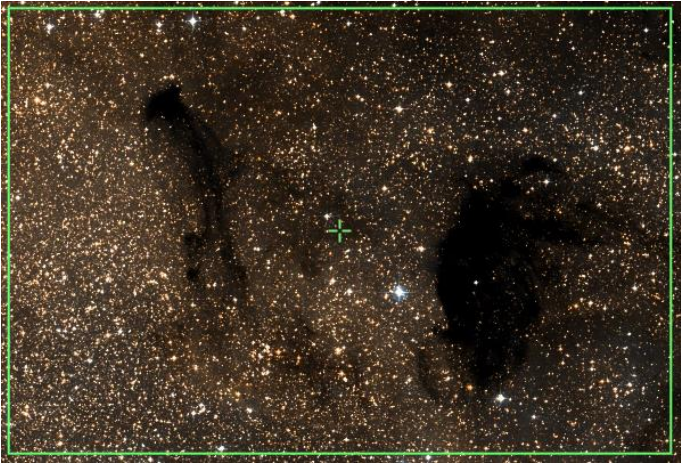
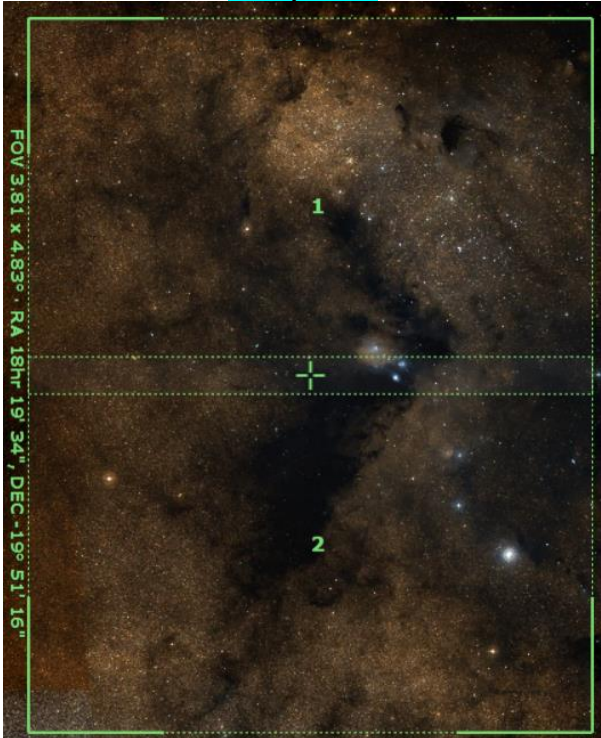
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<p>Lagoon Nebula (M-8) Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Sagittarius Coordinates: 18h 04' 04" -24° 19' 52"</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: M-8/NGC-6523 Imaging Window: *08:56 – 11:39 Transit: 09:32 32°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Lagoon Nebula (M-8) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Sagittarius Coordinates: 18h 04' 02" -24° 20' 56"</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: M-8/NGC-6523 Imaging Window: *08:56 – 11:39 Transit: 09:32 32°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-21(NGC-6531) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Sagittarius Coordinates: 18h 04' 13" -22° 30' 00"</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: M-21/NGC-6531 Imaging Window: *08:56 – 11:50 Transit: 09:33 34°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

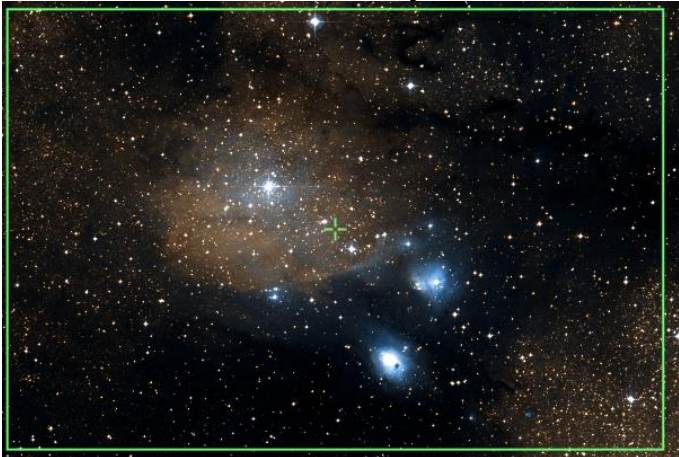


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<p>IC-4685 (IC-4685) Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Sagittarius Coordinates: 18h 09' 29" -23° 50' 25"</p> <p>Close Star: SAO-209696 (Alnasl) Rotation 90°</p> <p>Catalog Objects: IC-1274 Imaging Window: *08:56 – 11:50 Transit: 09:40 33°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>IC-1274 (IC-1275) Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Sagittarius Coordinates: 18h 09' 41" -23° 52' 50"</p> <p>Close Star: SAO-184415 (Antares)</p> <p>Catalog Objects: IC-1274 Imaging Window: *08:56 – 11:50 Transit: 09:40 33°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p><small>Bright Nebula IC-1274, IC-1275, IC-4685, NGC-6559 Constellation: Sagittarius RA = 18h 09m 41s DEC = -23° 52' 50" Image Size = 60.8 x 39.5 Arcmin Orientation: 90deg E of N (Pixel scale = 0.627 arcsec/pixel) F1-190nm</small></p>
<p>Emerald Nebula (NGC-6572) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Ophiuchus Coordinates: 18h 12' 06" 06° 51' 15"</p> <p>Close Star: SAO-102932 (Rasalhague) Catalog Objects: NGC-6572 Imaging Window: 08:56 – 12:20 Transit: 09:41 64°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p><small>Planetary Nebula NGC-6572 Constellation: Ophiuchus Coordinates: RA = 18h 12m 06s DEC = 06° 51' 15" Image Size = 27.2 x 13 Arcmin Orientation: 90deg E of N (Pixel scale = 0.27 arcsec/pixel) F2-200nm</small></p>



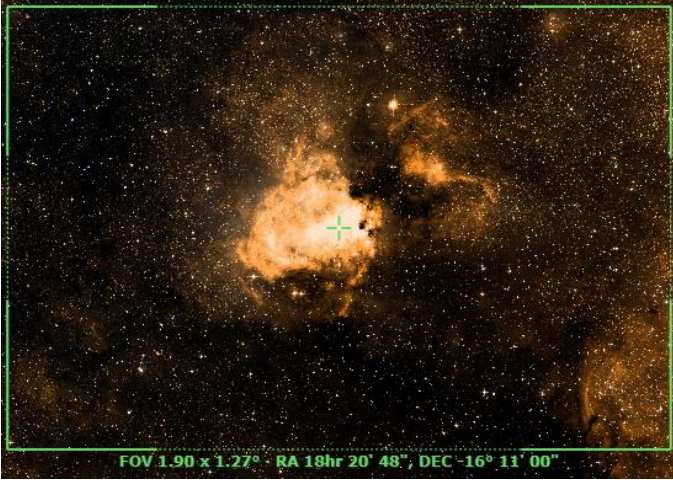
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<p>B-93(LDN-327) Config: C11HD ZWO6200MC </p> <p>Type: Dark Nebula</p> <p>Constellation: Sagittarius Coordinates: 18h 16' 12" -18° 10' 19"</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: B-93/LDN-327, B-92 Imaging Window: *08:56 – 12:31 Transit: 09:45 30°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>IC-1283 Region (NGC-6589) Config: C11-HD HS ZWO6200MC</p> <p>Type: Dark Nebula</p> <p>Constellation: Sagittarius Coordinates:</p> <ul style="list-style-type: none"> • Frame 1 <ul style="list-style-type: none"> ○ RA: 18h 19' 34" ○ DEC: -18° 42' 41" • Frame 2 <ul style="list-style-type: none"> ○ RA: 18h 19' 34" ○ DEC: -20° 59' 51" <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: IC-1283/NGC-6589</p> <p>Imaging Window: *08:56 – 12:27 Transit: 09:45 37°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4 Composite!</p> 

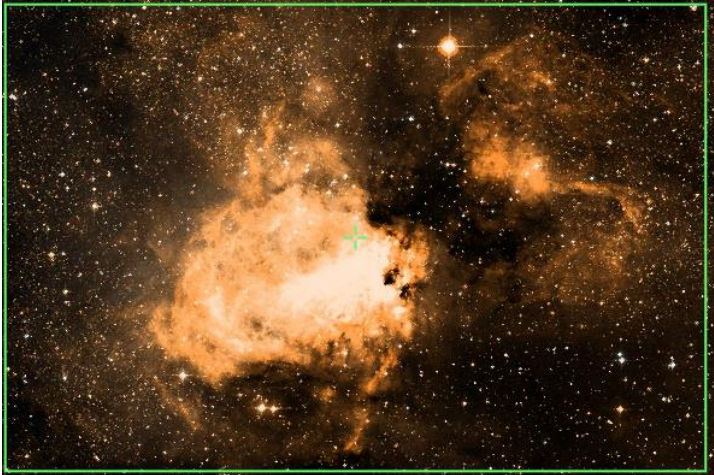


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<p>IC-1283(NGC-6589) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Sagittarius Coordinates: 18h 17' 21" -19° 43' 10"</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: IC-1283/NGC-6589 Imaging Window: *08:56 – 12:27 Transit: 09:45 37°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Sagittarius Star Cloud(M-24) Config: C11-HD FR ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Sagittarius Coordinates: 18h 18' 42" -18° 30' 43"</p> <p>Close Star: SAO-184415 (Antares)</p> <p>Catalog Objects: M-24/IC-4715, NGC-6603 Imaging Window: *08:56 – 12:31 Transit: 09:45 38°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Eagle Nebula(M-16) Config: C11-HD HS ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Serpens Coordinates: 18h 18' 52" -13° 51' 27"</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: M-16/NGC-6611 Imaging Window: *08:56– 12:57 Transit: 09:47 43°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">Eagle Nebula (M-16) Region © 2024 Sky & Telescope Magazine, Inc. All rights reserved. This image was captured using a C-11 HD telescope with HyperStar v4 filter and ZWO6200MC camera. The image is a composite of multiple exposures.</p>


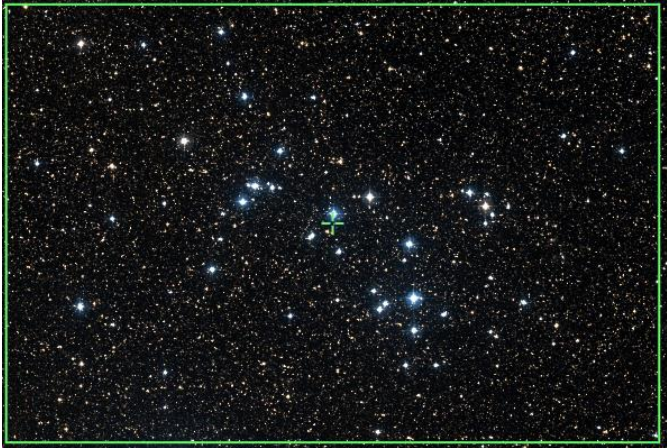

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<p>Eagle Nebula(M-16) Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Serpens Coordinates: 18h 18' 52" -13° 51' 27"</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: M-16/NGC-6611 Imaging Window: *08:56– 12:57 Transit: 09:47 43°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>M-18(NGC-6613) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Sagittarius Coordinates: 18h 19' 58" -17° 06' 06"</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: M-18/NGC-6613 Imaging Window: *08:56 – 12:42 Transit: 09:48 40°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Omega Nebula(M-17) Config: C11-HD HS ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Sagittarius Coordinates: 18h 20' 44" -16° 07' 04"</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: M-17/NGC-6618, NGC-6618 Imaging Window: *08:56 – 12:50 Transit: 09:49 40°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 

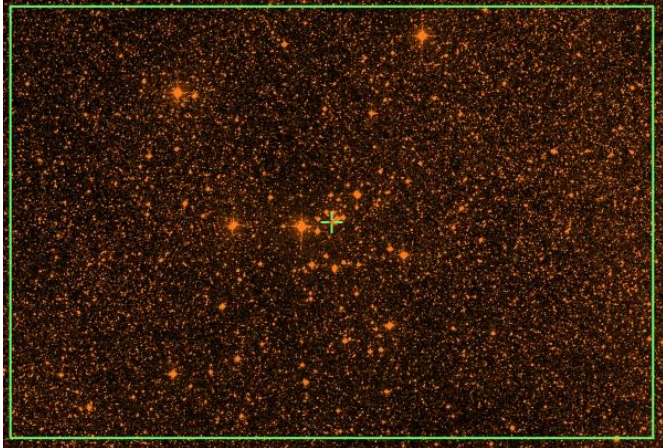


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<p>Omega Nebula(M-17) Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Sagittarius Coordinates: 18h 20' 44" -16° 07' 04"</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: M-17/NGC-6618, NGC-6618 Imaging Window: *08:56 – 12:50 Transit: 09:49 40°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Omega Nebula(M-17) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Sagittarius Coordinates: 18h 20' 44" -16° 07' 04"</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: M-17/NGC-6618, NGC-6618 Imaging Window: *08:56 – 12:50 Transit: 09:49 40°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-28(NGC-6626) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Sagittarius Coordinates: 18h 24' 33" -24° 52' 10"</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: M-28/NGC-6626 Imaging Window: *08:56 – 11:54 Transit: 09:53 32°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

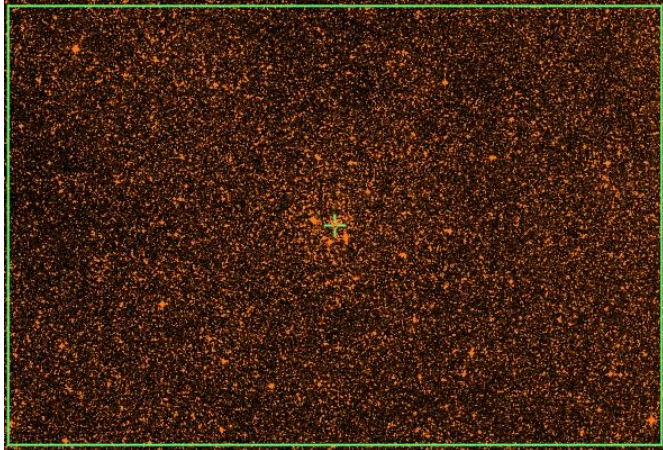

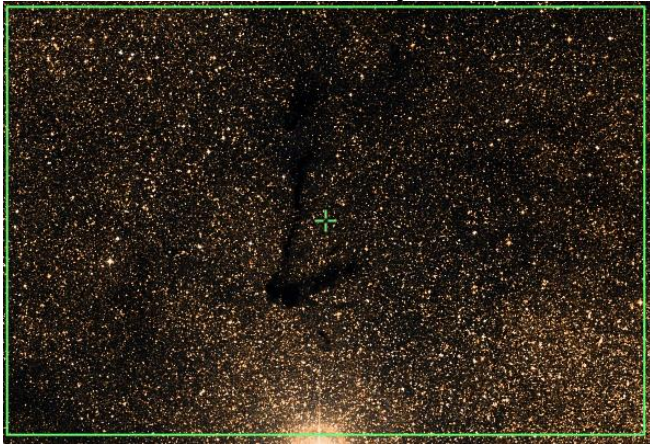
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<p>NGC-6629 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Sagittarius Coordinates: 18h 25' 42" -23° 12' 08"</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: NGC-6629 Imaging Window: *08:56 – 12:09 Transit: 09:54 33°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center; font-size: small;">FOV 0.36" x 0.24" RA 18h 25' 42" DEC -23° 12' 08"</p>
<p>NGC-6633 Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Ophiuchus Coordinates: 18h 27' 15" 06° 30' 30"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: NGC-6633 Imaging Window: 08:56 – 12:35 Transit: 09:56 63°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-69(NGC-6637) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Sagittarius Coordinates: 18h 31' 23" -32° 20' 51"</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: M-69/NGC-6637 Imaging Window: *08:56 – 11:50 Transit: 10:00 24°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




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<p>M-25 (IC-4725) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Sagittarius Coordinates: 18h 31' 45" -19° 07' 12"</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: M-25 Imaging Window: *08:56 – 12:42 Transit: 10:00 37°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-22 (NGC-6656) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Sagittarius Coordinates: 18h 36' 24" -23° 54' 10"</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: M-22/NGC-6656 Imaging Window: *08:56 – 12:20 Transit: 10:05 33°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p><small>M-22 Globular Cluster in Sagittarius</small></p> <p><small>*James Yoder 2018.05.27</small></p>
<p>M-70 (NGC-6681) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Sagittarius Coordinates: 18h 43' 13" -32° 17' 29"</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: M-70/NGC-6681 Imaging Window: *08:56 – 12:01 Transit: 10:12 24°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 


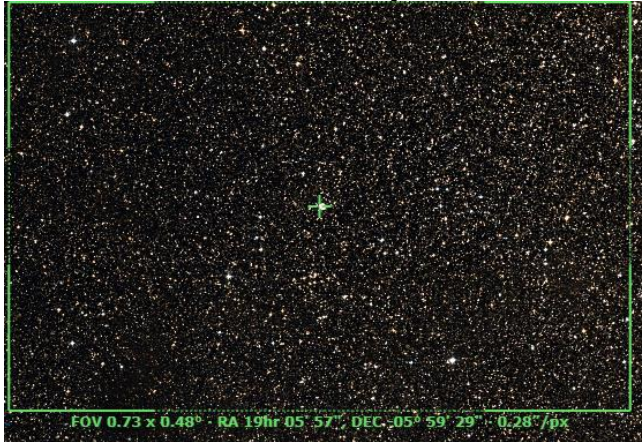
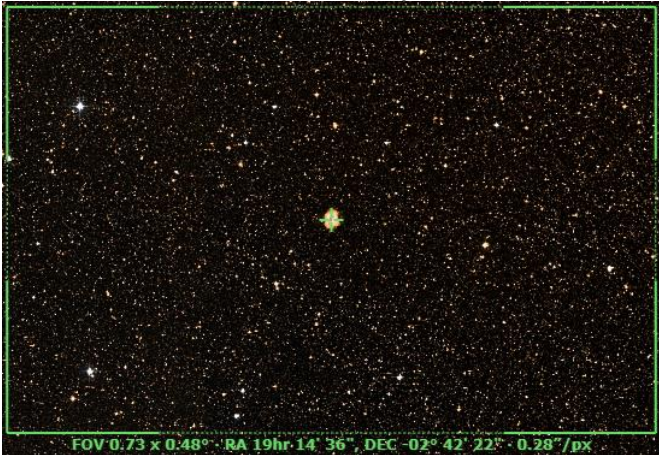
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<p>M-26(NGC-6694) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Sagittarius Coordinates: 18h 45' 15" -09° 23' 06"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: M-26/NGC-6694 Imaging Window: *08:56 – 01:12 Transit:10:14 47°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>IC-4776 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Sagittarius Coordinates: 18h 45' 51" -33° 20' 32"</p> <p>Close Star: SAO-186841 (Kaus Borealis) Catalog Objects: IC-4776 Imaging Window: *08:56 – 11:50 Transit: 10:14 23°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>B-104(LDN-532) Config: C11HD ZWO6200MC </p> <p>Type: Dark Nebula</p> <p>Constellation: Scutum Coordinates: 18h 47' 09" -04° 28' 45"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: B-104/LDN-532 Imaging Window: *08:56 – 01:34 Transit: 10:16 52°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 



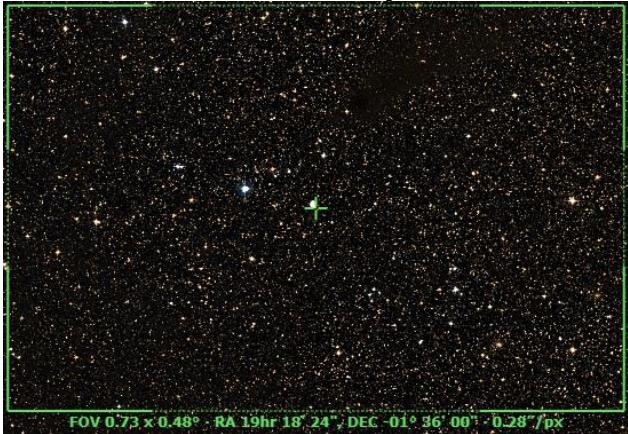
Prospective Imaging Objects – August 04 2024

<p>Wild Duck Cluster(M-11/NGC-6705) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Scutum Coordinates: 18h 51' 05" -06° 16' 12"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: M-11/NGC-6705 Imaging Window: *08:56 – 01:57 Transit: 10:20 50°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Ring Nebula(M-57/NGC-6720) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Lyra Coordinates: 18h 53' 35" 33° 01' 46"</p> <p>Close Star: SAO-67174 (Vega) Catalog Objects: M-57/NGC-6720 Imaging Window: 08:56 – 02:02 Transit: 10:22 90°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-54 (NGC-6715) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Sagittarius Coordinates: 18h 55' 03" -30° 28' 39"</p> <p>Close Star: SAO-187448 (Nunki) Catalog Objects: M-54/NGC-6715 Imaging Window: *09:25 – 11:28 Transit: 10:23 26°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

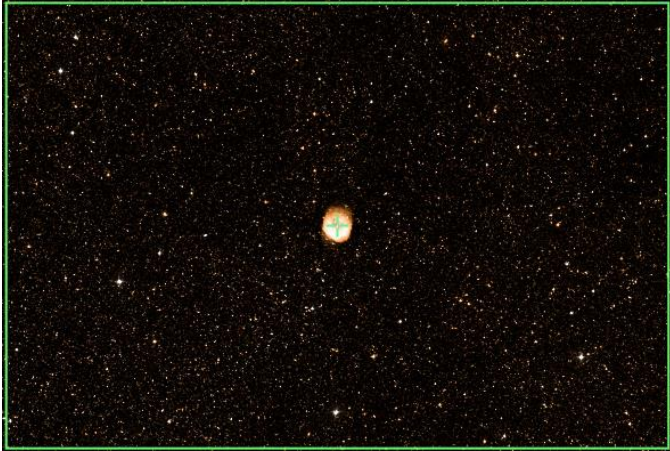


Prospective Imaging Objects – August 04 2024

<p>Abell 50 (NGC-6742) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Draco Coordinates: 21h 00' 33" 54° 32' 38"</p> <p>Close Star: SAO-046872 (Iota Her) Catalog Objects: NGC-6742 Imaging Window: 08:56 – 02:21 Transit: 10:28 87°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Dandelion Puffball Nebula (NGC-6751) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Aquila Coordinates: 19h 05' 57" -05° 59' 29"</p> <p>Close Star: SAO-142931 (i Aquilae) Catalog Objects: NGC-6751 Imaging Window: *08:56 – 01:46 Transit: 10:34 51°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-6772 (PK 33-6.1) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Aquila Coordinates: 19h 14' 36" -02° 42' 22"</p> <p>Close Star: SAO-142931 (i Aquilae) Catalog Objects: NGC-6772 Imaging Window: *08:56 – 02:34 Transit: 10:43 54°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – August 04 2024

<p>Barnard's Black Lizard (B-138) Config: C11-HD HS ZWO6200MC</p> <p>Type: Dark Nebula</p> <p>Constellation: Aquila Coordinates: 19h 15' 59" 00° 13' 00"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: B-138 Imaging Window: 08:56 – 12:58 Transit: 10:42 58°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>M-56 (NGC-6779) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Lyra Coordinates: 19h 16' 35" 30° 11' 07"</p> <p>Close Star: SAO-67663 (Sulafat) Catalog Objects: M-56/NGC-6779 Imaging Window: 08:56 – 02:21 Transit: 10:45 87°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-6778 (PK 34-6.1) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Aquila Coordinates: 19h 18' 24" -01° 36' 00"</p> <p>Close Star: SAO-124068 (Alya) Catalog Objects: NGC-6778/PK 34-6.1 Imaging Window: 08:56 – 12:50 Transit: 10:47 55°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 



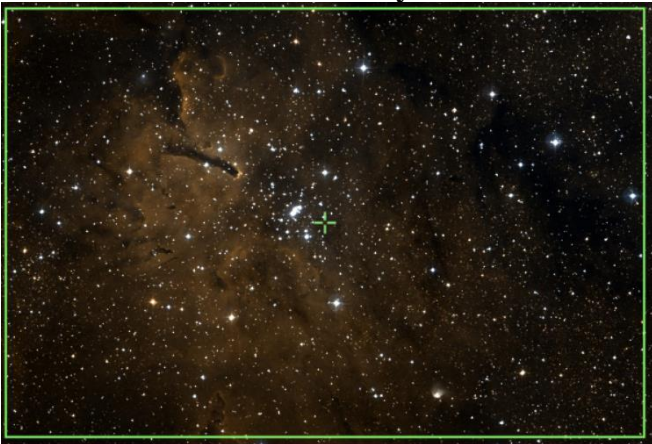
Prospective Imaging Objects – August 04 2024

<p>NGC-6781 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Aquila Coordinates: 19h 18' 28" 06° 32' 25"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: NGC-6781/PK 41-2.1 Imaging Window: 08:56 – 01:26 Transit: 10:47 63°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>LDN-673 Config: C11-HD HS ZWO6200MC</p> <p>Type: Dark Nebula</p> <p>Constellation: Aquila Coordinates: 19h 18' 14" 11° 15' 40"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: LDN-673 Imaging Window: 08:56 – 01:43 Transit: 10:49 68°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>Lot Ness Monster (LDN-772) Config: C11-HD HS ZWO6200MC</p> <p>Type: Dark Nebula</p> <p>Constellation: Vulpecula Coordinates: 19h 26' 46" 23° 08' 59"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: LDN-772 Imaging Window: 08:56 – 02:17 Transit: 10:53 80°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p><small>Lot Ness Monster (LDN-772) Constellation: Vulpecula RA = 19h 26m 46s DEC = 23deg 08' 59" Size = 1.52 x 2.18 deg (Observed: 90deg E of N) Pixel scale = 2.28 arcsec/pix (F1-Filter) Image Date: 2024-06-04 00:20:00 File: Aquila_04_2024_04_2 Config: C11HD HyperStar V4 Altair+Mk II RC DSLR DSLR Apparent Size: 191x130px Date: 2024-06-04 00:20:00</small></p>


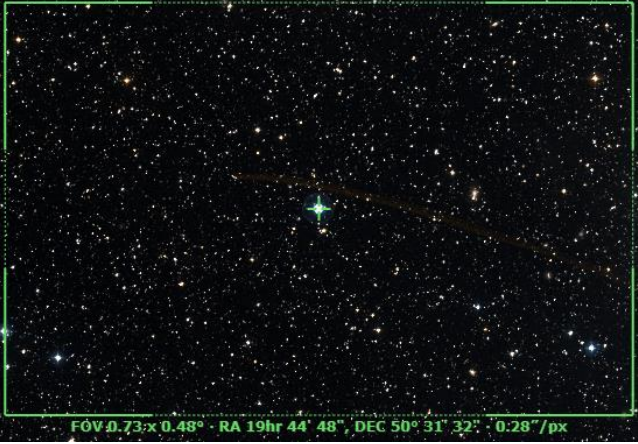

Prospective Imaging Objects – August 04 2024

<p>NGC6804 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Aquila Coordinates: 19h 31' 35" 09° 13' 33"</p> <p>Close Star: SAO-104728 (Omega Aq) Catalog Objects: NGC-6804 Imaging Window: 08:56 – 01:48 Transit: 11:00 66°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-55 Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Sagittarius Coordinates: 19h 39' 59" -30° 57' 42"</p> <p>Close Star: SAO-191524 (Formalhaut) Catalog Objects: M-55/NGC-6809 Imaging Window: *10:39 – 12:01 Transit: 11:08 26°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Barnard's E (B-143) Config: C11-HD FR ZWO6200MC </p> <p>Type: Dark Nebula</p> <p>Constellation: Aquila Coordinates: 19h 40' 47" 11° 01' 12"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: B-143/LDN-694 Imaging Window: 08:56 – 02:02 Transit: 11:09 67°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 


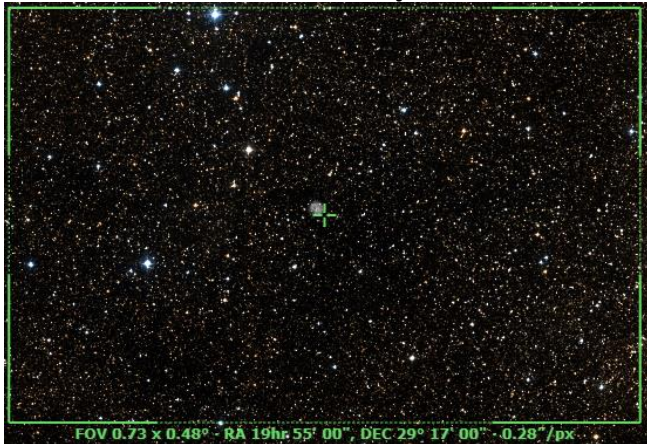
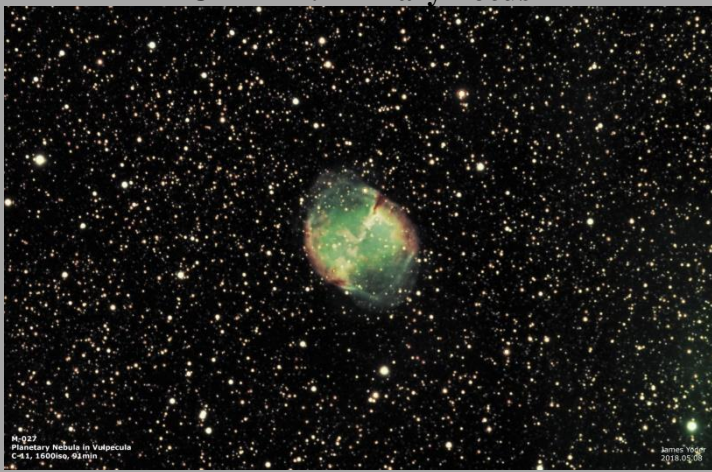
Prospective Imaging Objects – August 04 2024

<p>NGC-6820 (LDN-772) Config: C11-HD HS ZWO6200MC</p> <p>Type: Open Cluster & Nebula</p> <p>Constellation: Vulpecula Coordinates: 19h 43' 37" 23° 19' 29"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: NGC-6820 Imaging Window: 08:56 – 02:34 Transit: 11:11 80°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>The Finger (NGC-6820) Config: C11-HD FR ZWO6200MC </p> <p>Type: Open Cluster & Nebula</p> <p>Constellation: Vulpecula Coordinates: 19h 42' 56" 23° 18' 43"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: NGC-6820 Imaging Window: 08:56 – 02:34 Transit: 11:11 80°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>The Finger (NGC-6820) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster & Nebula</p> <p>Constellation: Vulpecula Coordinates: 19h 43' 01" 23° 17' 12"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: NGC-6820 Imaging Window: 08:56 – 02:34 Transit: 11:11 80°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – August 04 2024

<p>Little Gem (NGC-6818) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Sagittarius Coordinates: 19h 43' 58" -14° 09' 09"</p> <p>Close Star: SAO-143021 (16 Aql) Catalog Objects: NGC-6818/PK 25-17.1 Imaging Window: *08:56 – 02:19 Transit: 11:12 43°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;">FOV 0.73 x 0.48° - RA 19hr 43' 58\", DEC -14° 09' 09\" - 0.28\"/px</p>
<p>Blinking Planetary (NGC-6826) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Cygnus Coordinates: 19h 44' 48" 50° 31' 32"</p> <p>Close Star: SAO-31815 (13 Cyg) Catalog Objects: NGC-6826/NGC-6826 Imaging Window: 08:56 – 03:07 Transit: 11:13 73°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;">FOV 0.73 x 0.48° - RA 19hr 44' 48\", DEC 50° 31' 32\" - 0.28\"/px</p>
<p>Barnard's Galaxy (NGC 6822) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Sagittarius Coordinates: 19h 44' 57" -14° 48' 23"</p> <p>Close Star: SAO-191524 (Formalhaut) Catalog Objects: NGC-6822 Imaging Window: *08:56 – 02:15 Transit: 11:13 42°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;">FOV 0.73 x 0.48° - RA 19hr 44' 57\", DEC -14° 48' 23\" - 0.28\"/px</p>




Prospective Imaging Objects – August 04 2024

<p>M-71 (NGC-6838) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Sagitta Coordinates: 19h 53' 46" 18° 46' 43"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: M-71/NGC-6838 Imaging Window: 08:56 – 02:36 Transit: 11:22 75°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC 6842 (PK 65+0.1) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Vulpecula Coordinates: 19h 55' 00" 29° 17' 00"</p> <p>Close Star: SAO-68637 (12 Cyg) Catalog Objects: NGC-6842/PK 65+0.1 Imaging Window: 08:56 – 02:58 Transit: 11:23 86°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center; font-size: small;">FOV 0.73 x 0.48° - RA 19h 55' 00", DEC 29° 17' 00" - 0.28"/px</p>
<p>Dumbbell Nebula (M-27, NGC-6853) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Vulpecula Coordinates: 19h 59' 36" 22° 43' 17"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: M-27/NGC-6853 Imaging Window: 08:56 – 02:51 Transit: 11:28 79°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center; font-size: x-small;">M-27 Planetary Nebula in Vulpecula C-11 HD 2024-06-09 James Webb 2024-06-09</p>




Prospective Imaging Objects – August 04 2024

<p>Fish on the Platter (B-144) Config: C11-HD HS ZWO6200MC</p> <p>Type: Dark Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 02' 28" 34° 57' 42"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: B-144, SH2-101 Imaging Window: 08:56 – 03:09 Transit: 11:26 89°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>Tulip Nebula (SH2-101) Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 00' 58" 35° 16' 30"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: SH2-101 Imaging Window: 08:56 – 03:09 Transit: 11:26 89°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Tulip Nebula (SH2-101) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 00' 57" 35° 20' 11"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: B-144 Imaging Window: 08:56 – 03:09 Transit: 11:26 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – August 04 2024

<p>NGC-6852 (PK 42-14.1) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Aquila Coordinates: 20h 00' 39" 01° 43' 43"</p> <p>Close Star: SAO-144150 (65 Aql)</p> <p>Catalog Objects: NGC-6852/PK 42-14.1 Imaging Window: 09:15 – 01:49 Transit: 11:29 58°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center; font-size: small;">FOV: 0.73 x 0.48° · RA 20hr 00' 39", DEC 01° 43' 43" · 0.28"/px</p>
<p>M-75 (NGC-6864) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Sagittarius Coordinates: 20h 06' 05" -21° 55' 15"</p> <p>Close Star: SAO-191524 (Formalhaut) Catalog Objects: M-75/NGC-6864 Imaging Window: *09:17 – 01:57 Transit: 11:34 35°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Crescent Nebula (NGC-6888) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 12' 06" 38° 21' 00"</p> <p>Close Star: SAO-125122 (Altair) Catalog Objects: NGC-6888/Sh2-105 Imaging Window: 08:56 – 03:27 Transit: 11:40 85°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 


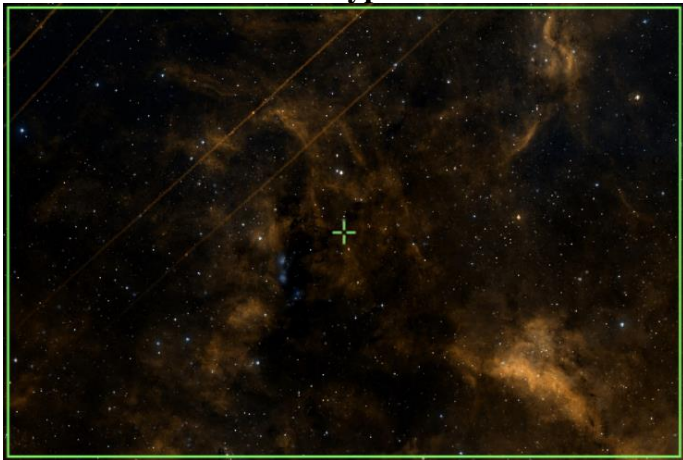
Prospective Imaging Objects – August 04 2024

<p>Propeller Nebula (DWB-111) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 16' 09" 43° 41' 47"</p> <p>Close Ref Object: LDN 891 Close Star: SAO-048796 (Al Fawaris) Catalog Objects: Simeis-57/DWB-111 Imaging Window: 08:56 – 03:32 Transit: 11:42 79°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Propeller Nebula (DWB 111) Constellation: Cygnus the Swan</p>
<p>NGC 6891 (PK 54-12.1) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Delphinus Coordinates: 20h 15' 09" 12° 42' 17"</p> <p>Close Star: SAO-106230 (2 Del) Catalog Objects: NGC-6991 Imaging Window: 08:56 – 02:42 Transit: 11:43 77°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: x-small; text-align: center;">FOV 0.73 x 0.48° · RA 20hr 15' 09", DEC 12° 42' 17" · 0.28"/px</p>
<p>Little Ring Nebula (NGC-6894) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 16' 24" 30° 33' 57"</p> <p>Close Star: SAO-71070 (64 Cyg) Catalog Objects: NGC-6994 Imaging Window: 08:56 – 03:21 Transit: 11:45 87°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: x-small; text-align: center;">FOV 0.73 x 0.48° · RA 20hr 16' 24", DEC 30° 33' 57" · 0.28"/px</p>



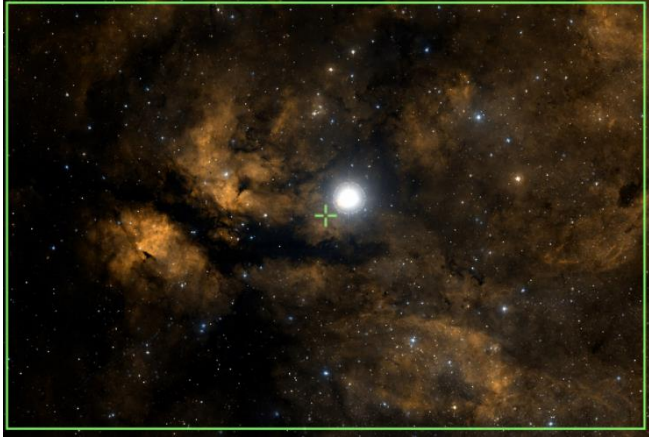
Prospective Imaging Objects – August 04 2024

<p>IC-4997 (PK 58-10.1) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Sagitta Coordinates: 20h 20' 09" 16° 43' 56"</p> <p>Close Star: SAO-106316 (Rotanev) Catalog Objects: IC-4997 Imaging Window: 08:56 – 02:58 Transit: 11:48 87°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center; font-size: small;">FOV 0.73 x 0.48° : RA 20h 20' 09" : DEC 16° 43' 56" : 0.28"/px</p>
<p>Blue Flash Nebula (NGC-6905) Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Delphinus Coordinates: 20h 22' 24" 20° 06' 18"</p> <p>Close Star: SAO-108378 (Markab) Catalog Objects: NGC-6905 Imaging Window: 08:56 – 03:08 Transit: 11:51 77°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center; font-size: x-small;">The Blue Flash Nebula (NGC-6905) Constellation: Delphinus Coordinates: RA 20h 22m 24s DEC 20° 06' 18" (J2000) Imaging Window: 08:56 - 03:08 Transit: 11:51 77°</p>
<p>M-29 (NGC-6913) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Cygnus Coordinates: 20h 24' 06" 38° 29' 36"</p> <p>Close Star: SAO-90981 (Scheat) Catalog Objects: M-29/NGC-6913 Imaging Window: 08:56 – 03:39 Transit: 11:52 85°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

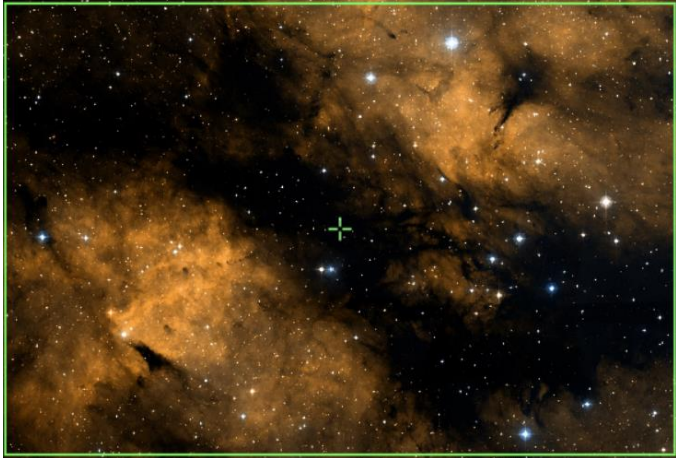


Prospective Imaging Objects – August 04 2024

<p>Gamma Cygni Nebula (IC-1318 A&B) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: Frame 1: RA=20hr 18' 27" DEC=41°12'10" Frame 2: RA=20hr 18' 38" DEC=38°55'33"</p> <p>Close Star: SAO-49941 (Deneb) Catalog Objects: IC-1318 Imaging Window: 08:56 – 03:35 Transit: 11:45 81°</p>	<p>C-11 HD: HyperStar v4 Composite!</p>  <p><small>Gamma Cygni Nebula (IC-1318) Copyright © 2024 by [unreadable]</small></p>
<p>IC-1318A</p> <p>Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 22' 52" 42° 38' 53"</p> <p>Close Star: SAO-49941 (Deneb) Catalog Objects: IC-1318A Imaging Window: 08:56 – 03:35 Transit: 11:45 81°</p>	<p>C-11 HD: HyperStar v4</p> 

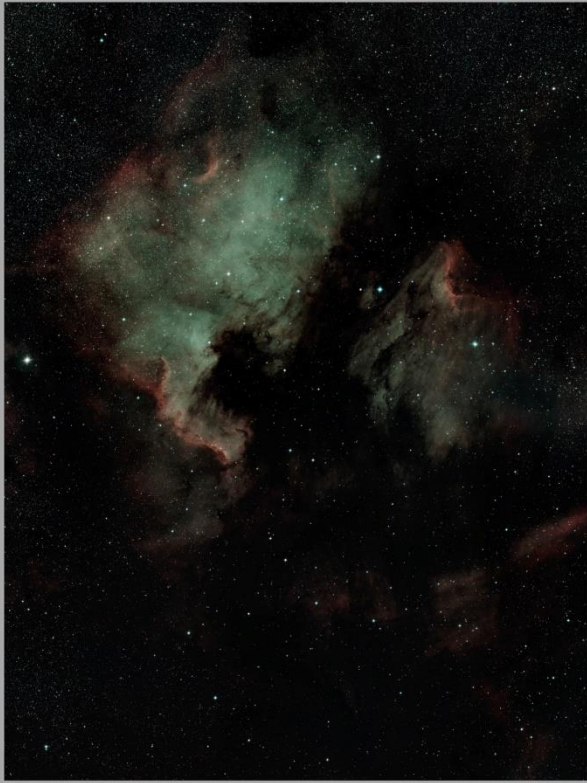

Prospective Imaging Objects – August 04 2024

<p>IC-1318 Region-1 Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 24' 48" 42° 29' 00"</p> <p>Close Star: SAO-49941 (Deneb) Catalog Objects: NGC-6914 Imaging Window: 08:56 – 03:43 Transit: 11:53 81°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>IC-1318 Region-1 Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 25' 07" 42° 24' 34"</p> <p>Close Star: SAO-49941 (Deneb) Catalog Objects: NGC-6914 Imaging Window: 08:56 – 03:43 Transit: 11:53 81°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>IC-1318B Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 22' 57" 40° 09' 33"</p> <p>Close Star: SAO-67174 (Vega) Catalog Objects: IC-1318B Imaging Window: 08:58 – 03:44 Transit: 11:56 80°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 

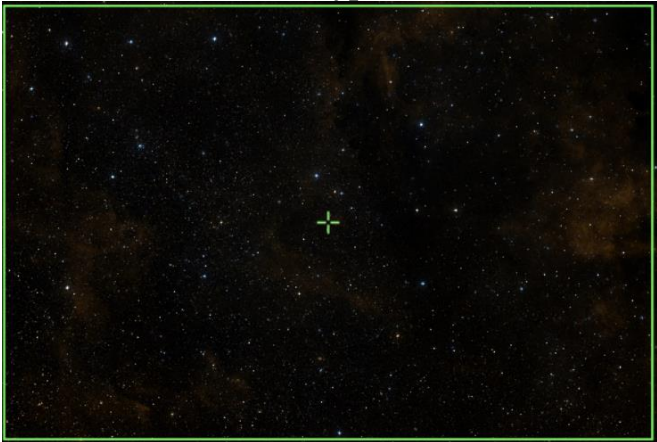
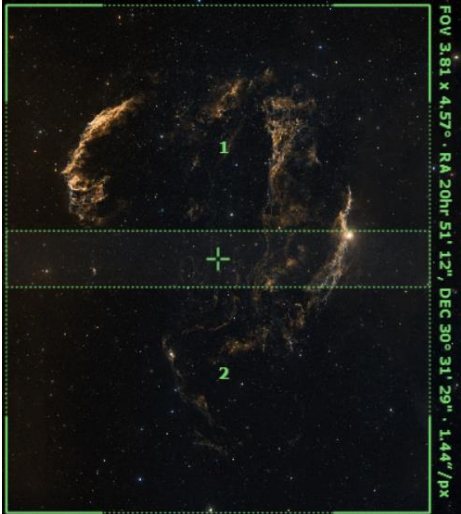
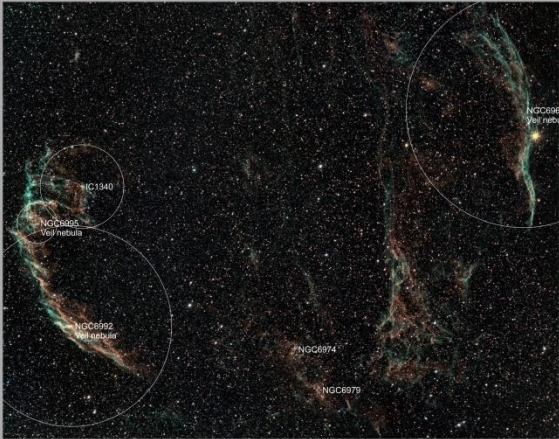
Prospective Imaging Objects – August 04 2024

<p>IC-1318B Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 26' 59" 40° 06' 52"</p> <p>Close Star: SAO-67174 (Vega) Catalog Objects: IC-1318B Imaging Window: 08:58 – 03:44 Transit: 11:56 80°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>IC-1318B Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 25' 40" 40° 17' 34"</p> <p>Close Star: SAO-67174 (Vega) Catalog Objects: IC-1318B Imaging Window: 08:58 – 03:44 Transit: 11:56 80°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p><small>Butterfly Nebula (IC-1318) Constellation: Cygnus the Swan RA = 20h 25m 40.7s, DEC = +40° 17' 34.0", Size = 42.3 x 28.5 arcmin, Observation: 0.13Mag, 8" of FOV, Pixel scale = 0.441 arcsec/pix, F1.079mm</small></p> <p><small>Image taken January 2024 by J. L. Luginbuhl, Canada, AZ © 2024 J. L. Luginbuhl, Canada, AZ Exposure 140, 200mag/Frame, Gain 1000 (Offset 100)</small></p>
<p>Fireworks Galaxy (NGC-6946) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Cepheus Coordinates: 20° 34' 54" 60° 08' 60"</p> <p>Close Star: SAO-19302 (Alderamin) Catalog Objects: NGC-6946 Imaging Window: 08:56 – 03:51 Transit: 12:03 63°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 


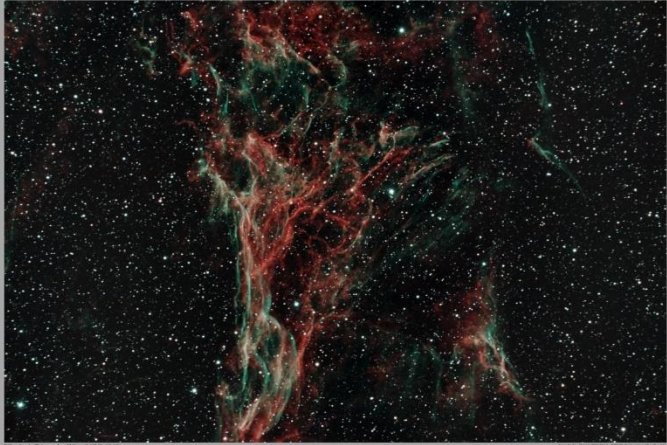

Prospective Imaging Objects – August 04 2024

<p>Pelican & N. America Nebula (IC-5070) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: Frame 1: RA=20hr56'10" DEC=44°55'07" Frame 2: RA=20hr56'10" DEC=42°37'57"</p> <p>Close Star: SAO-50180 (57 Cygni) Catalog Objects: IC5070 Imaging Window: 08:56 – 04:10 Transit: 12:19 79°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4 Composite!</p>  <p style="font-size: small;">North America (NGC-7000) and Pelican (IC-5070) Nebula Constellation: Cygnus the Swan RA: 20h 56m 10.00s DEC: 44° 55' 07.00" Orientation: 0deg E of N (Polar angle = 1.411 arcmin) (IC-5070)</p> <p style="font-size: small; text-align: right;">James Volder (Data) 2022-08-26-2022-09-06 Location: Chandler, AZ Config: C-11HD HyperStar V4 OPT Radfan Total Ultra ZWO6200MC Exposure Info: Mount: 01 R 121 ImagiStar Gain: 100 Offset: 50</p>
<p>Pelican & N. America Nebula (IC-5070) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 57' 29" 44° 10' 10"</p> <p>Close Star: SAO-50180 (57 Cygni) Catalog Objects: IC5070 Imaging Window: 08:56 – 04:10 Transit: 12:19 79°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">North American Nebula (NGC 7000) Pelican Nebula (IC 5070) and Open Star Cluster (NGC 6997) Constellation: Cygnus the Swan</p> <p style="font-size: small; text-align: right;">James Volder 2019-02-20 Config: C11 HyperStar Astromech C-5-C-CD OPT 15K Exposure Info: 350ms/5min Gain: 3200 Offset: 100</p>

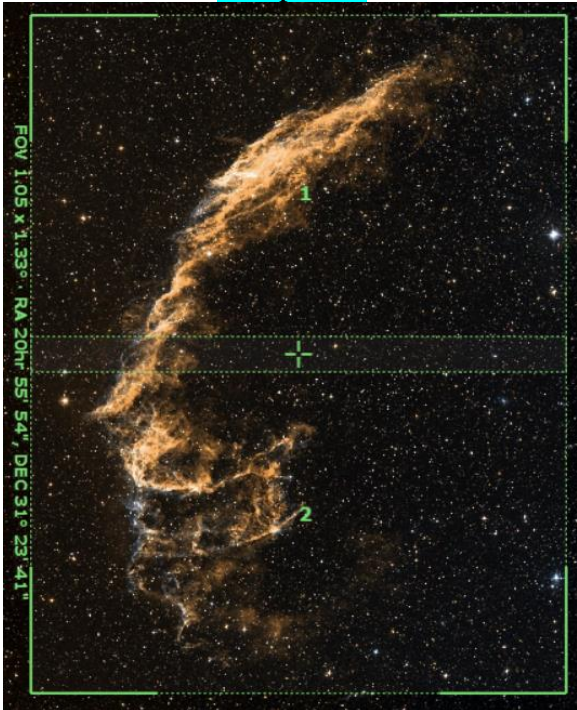

Prospective Imaging Objects – August 04 2024

<p>Northern Coal Sack (LDN-904) Config: C11-HD HS ZWO6200MC</p> <p>Type: Dark Nebula</p> <p>Constellation: Cygnus Coordinates: 20h 51' 52" 39° 13' 34"</p> <p>Close Star: SAO-49941 (Deneb) Catalog Objects: LDN-904 Imaging Window: 08:56 – 04:09 Transit: 12:21 84°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>Veil Nebula (NGC-6960) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: P1: RA: 20h51'12" DEC: 31°32'26" P2: RA: 20h51'12" DEC: 29°30'31"</p> <p>Close Star: SAO-70467 (52 Cygni) Catalog Objects: NGC-6960, 6992, 6995 Imaging Window: 08:56 – 03:59 Transit: 12:21 80°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4 Composite!</p> 
<p>Veil Nebula (NGC-6960) Config: C11-HD HS ZWO6200MC</p> <p>Type: Supernova Remnant</p> <p>Constellation: Cygnus Coordinates: 20h 51' 15" 31° 03' 60"</p> <p>Close Star: SAO-70467 (52 Cygni) Catalog Objects: NGC-6960, 6992, 6995 Imaging Window: 08:56 – 03:59 Transit: 12:21 80°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">Veil Nebula Complex Constellation: Cygnus the Swan</p> <p style="font-size: x-small; text-align: right;">Image credit: James Storer Config: C11 HyperStar + Astrocam Ltd. 09/12/20 Exposure time: 11 (throughout) Gain: 1200 (offline 18)</p>


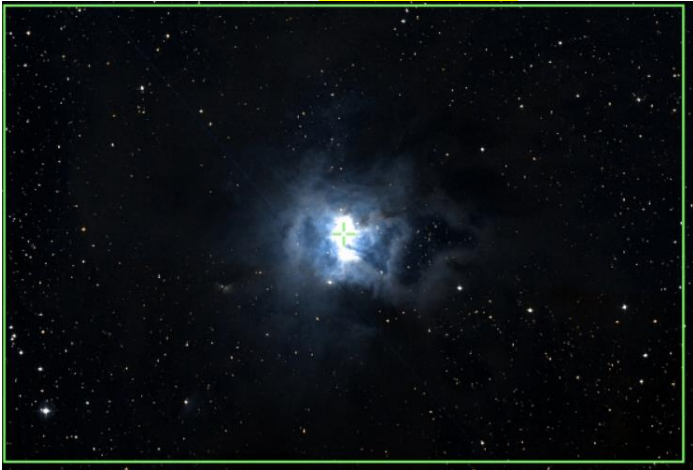

Prospective Imaging Objects – August 04 2024

<p>Witch's Broom (NGC-6960) Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cygnus Coordinates: P1: RA=20hr 46' 20" DEC=30° 54' 54" P2: RA=20hr 46' 20" DEC=30° 17' 06"</p> <p>Close Star: SAO-70467 (52 Cygni) Catalog Objects: NGC-6960</p> <p>Imaging Window: 08:56 – 03:59 Transit: 12:21 80°</p>	<p>C-11 HD: Focal Reducer Composite!</p> 
<p>Pickering's Triangular Wisp Config: C11-HD FR ZWO6200MC </p> <p>Type: Supernova Remnant</p> <p>Constellation: Cygnus Coordinates: 20h 48' 16" 31° 37' 17"</p> <p>Close Star: SAO-70467 (52 Cygni) Catalog Objects: NGC-6960 Imaging Window: 08:56 – 03:59 Transit: 12:21 80°</p>	<p>C-11 HD: Focal Reducer</p> 
<p>M-72 (NGC-6981) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Aquarius Coordinates: 20h 53' 28" -12° 32' 11"</p> <p>Close Star: SAO-108378 (Markab) Catalog Objects: M-72/NGC-6981 Imaging Window: *09:43 – 03:04 Transit: 12:22 44°</p>	<p>C-11 HD: Primary Focus</p> 



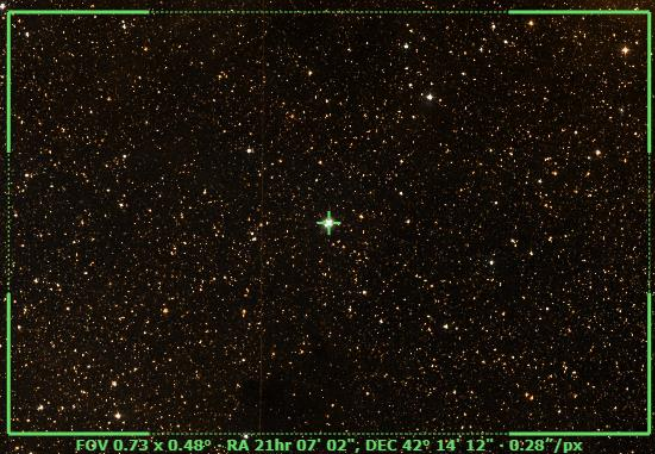
Prospective Imaging Objects – August 04 2024

<p>Network Nebula (NGC-6992) Config: C11-HD FR ZWO6200MC </p> <p>Type: Supernova Remnant</p> <p>Constellation: Cygnus Coordinates: P1: RA= 20hr 55' 54" DEC= 31° 42' 35" P2: RA= 20hr 55' 54" DEC= 31° 04' 47"</p> <p>Close Star: SAO-70474 (Gienah) Catalog Objects: NGC-6992 Imaging Window: 10:56 – 04:03 Transit: 12:24 88°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer Composite!</p> 
<p>M-73 (NGC-6994) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Aquarius Coordinates: 20h 59' 00" -12° 37' 60"</p> <p>Close Star: SAO-108378 (Markab) Catalog Objects: M-73/NGC-6994 Imaging Window: *09:47 – 03:10 Transit: 12:27 44°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – August 04 2024

<p>Fetus Nebula (NGC-7008) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Cygnus Coordinates: 21h 00' 33" 54° 32' 38"</p> <p>Close Star: SAO-49941 (Deneb) Catalog Objects: NGC-7008 Imaging Window: 08:56 – 04:10 Transit: 12:29 69°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Planetary Nebula NGC-7008 Constellation: Cygnus RA = 21h 00m 33.00s DEC = 54° 32' 38.00" Size = 70.0 x 17.0 arcsec Observation: 5.0deg F. or H. Filter used = 6.077 micron (red) (R=700nm) James Yoder, October 2023, 8x27, 201, 400nm, 400nm, 400nm Config: C-11 HD: Atlas 1846 ZWO6200MC Focal Reducer: 1.25x (ImageScale: 0.400 arcsec/px)</p>
<p>Iris Nebula (NGC 7023) Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cepheus Coordinates: 21h 01' 36" 68° 10' 00"</p> <p>Close Star: SAO-19302 (Alderamin) Catalog Objects: NGC-7023 Imaging Window: 09:11 – 03:55 Transit: 12:30 55°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Iris Nebula (NGC 7023) Config: C11HD ZWO6200MC </p> <p>Type: Bright Nebula</p> <p>Constellation: Cepheus Coordinates: 21h 01' 36" 68° 10' 00"</p> <p>Close Star: SAO-19302 (Alderamin) Catalog Objects: NGC-7023 Imaging Window: 09:11 – 03:55 Transit: 12:30 55°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: x-small;">NGC-7023 Iris Nebula in Cepheus James Yoder 2018.03.04</p>


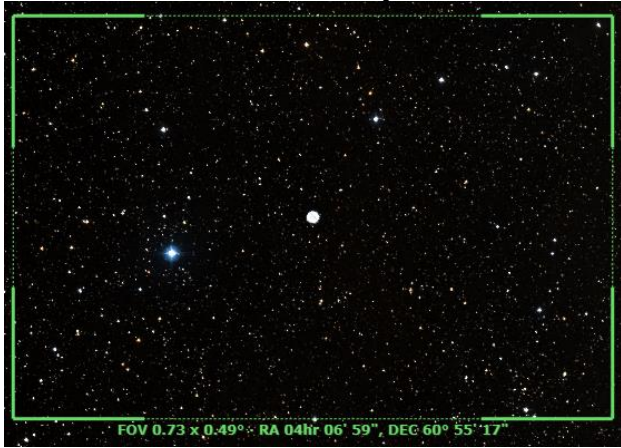
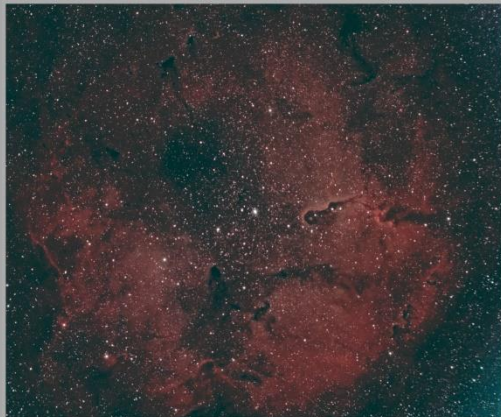
Prospective Imaging Objects – August 04 2024

<p>Saturn Nebula (NGC-7009) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Aquarius Coordinates: 21h 04' 11" -11° 21' 47"</p> <p>Close Star: SAO-191524 (Fomalhaut) Catalog Objects: NGC-7009 Imaging Window: *09:47 – 03:23 Transit: 12:32 45°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-7026 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Cygnus Coordinates: 21h 06' 19" 47° 51' 10"</p> <p>Close Star: SAO-50456 Catalog Objects: NGC-7026 Imaging Window: 08:56 – 04:10 Transit: 12:34 45°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-7027 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Cygnus Coordinates: 21h 07' 02" 42° 14' 12"</p> <p>Close Star: SAO-50456 Catalog Objects: NGC-7027 Imaging Window: 08:56 – 04:10 Transit: 12:35 45°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

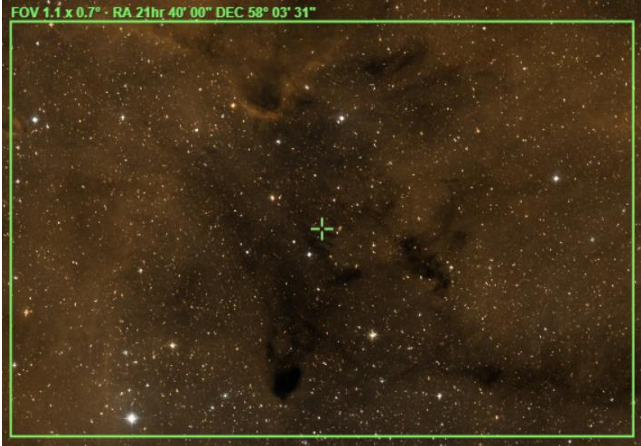


Prospective Imaging Objects – August 04 2024

<p>NGC-7048 (PK 88-1.1) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Cygnus Coordinates: 21h 14' 15" 46° 17' 21"</p> <p>Close Star: SAO-49941 (Deneb) Catalog Objects: NGC-7048 Imaging Window: 08:56 – 04:10 Transit: 12:42 77°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<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: 10:07 – 03:55 Transit: 12:58 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: 09:13 – 04:10 Transit: 01:00 75°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 


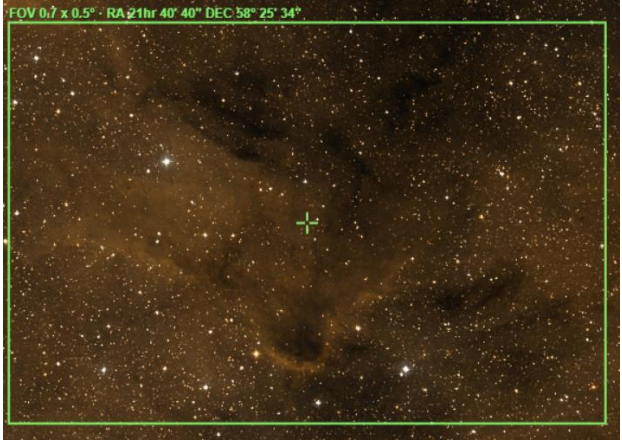

Prospective Imaging Objects – August 04 2024

<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: 11:01 – 03:09 Transit: 01:01 56°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<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: 10:12 – 04:04 Transit: 01:05 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: 09:23 – 04:10 Transit: 01:07 66°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">Elephant Trunk Nebula (IC-1396) Constellation: Cepheus</p> <p style="font-size: x-small; text-align: right;">Filter: HyperStar v4 Exposure: 42 Config: C11 HyperStar ZWO6200MC HS Exposure Info: 24000000 frames Gain: 12000 Offset: 100</p>


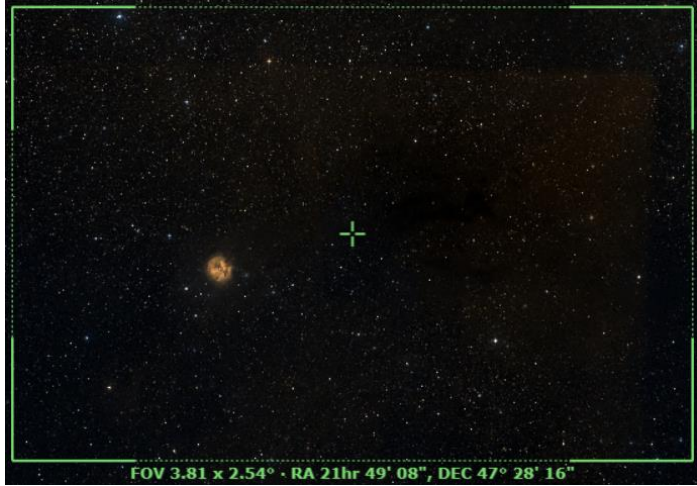

Prospective Imaging Objects – August 04 2024

<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: 09:23 – 04:10 Transit: 01:07 66°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<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: 09:23 – 04:10 Transit: 01:07 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: 09:23 – 04:10 Transit: 01:07 66°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – August 04 2024

<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: 09:23 – 04:10 Transit: 01:07 66°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p>FOV 0.7 x 0.5° - RA 21hr 34' 44" DEC 57° 28' 44"</p>
<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: 09:23 – 04:10 Transit: 01:07 66°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p>FOV 0.7 x 0.5° - RA 21hr 40' 40" DEC 58° 25' 34"</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: *10:54 – 03:26 Transit: 01:08 34°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p>FOV 0.7 x 0.5° - RA 21hr 40' 22" DEC -23° 10' 43"</p>



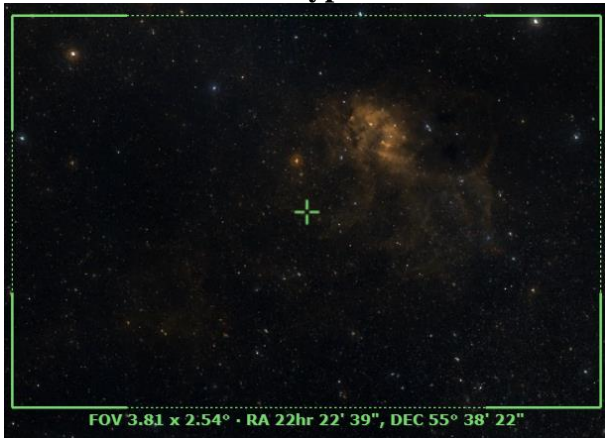
Prospective Imaging Objects – August 04 2024

<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: 09:40 – 04:10 Transit: 01:14 60°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">NGC-7139 Constellation: Cepheus RA = 21h 46m 07.2s, DEC = +63deg 47' 54.0", Size = 18.5 x 13.9 arcmin, Orientation = -6.7deg E of N, Pixel scale = 0.277 arcsecond, FL = 2900mm James Yoder Date: 2022-12-19 Location: Chandler, AZ Config: C-11 HD-PRF Track Star ZWO6200MC Exposure Info: 27 Bins@2min Gain: 100 Offset: 50 </p>
<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: 09:35 – 04:10 Transit: 01:21 76°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small; text-align: center;">FOV 3.81 x 2.54° - RA 21hr 49' 08", DEC 47° 28' 16"</p>
<p>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: 09:35 – 04:10 Transit: 01:21 76°</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 21hr 52' 00", DEC 47° 22' 37"</p>

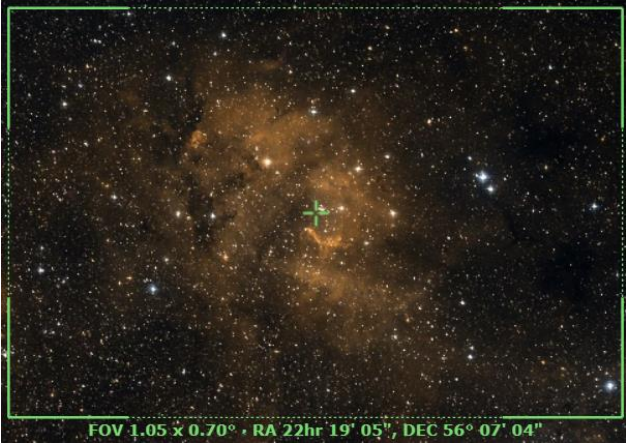
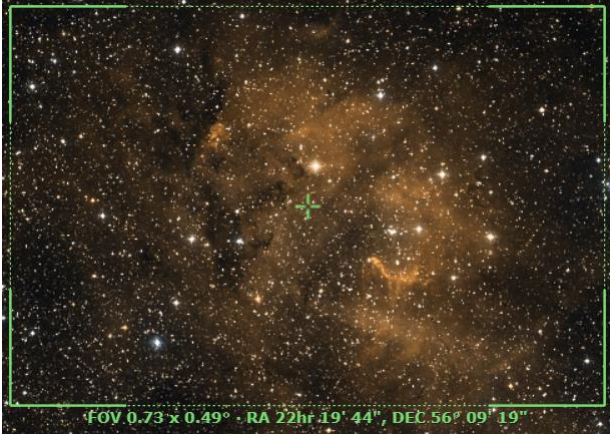
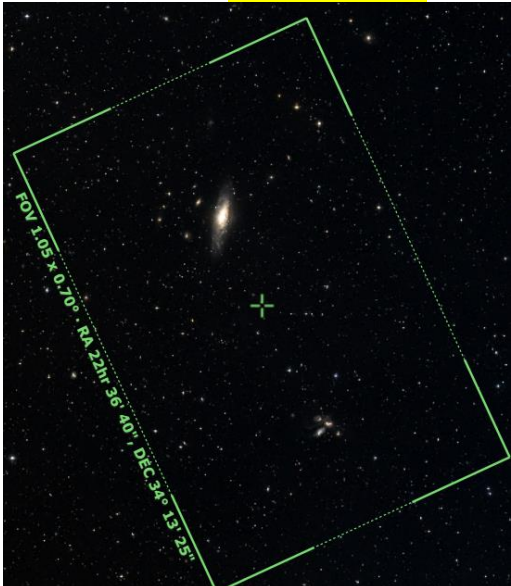
Prospective Imaging Objects – August 04 2024

<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: 09:35 – 04:10 Transit: 01:21 76°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">IC-5146, Cocoon Nebula James Yoder 2014 J.Y.</p>
<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: 11:04 – 04:10 Transit: 01:43 50°</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 22hr 11' 49", DEC 73° 12' 16"</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: *11:28 – 04:10 Transit: 01:57 36°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Helix Nebula (NGC-7293) Constellation: Aquarius James Yoder 2019.09.21 Location: Chandler, AZ Config: C11 LF Corrector Astronomik CLS-CCD OIV128c Exposure Info: 180ms@5min Gain: 3200 Offset: 180 </p>

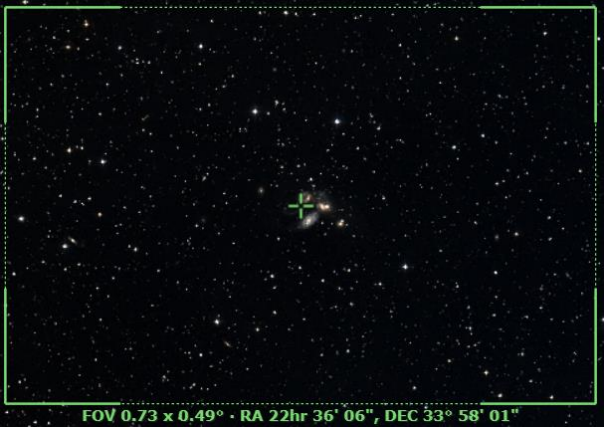


Prospective Imaging Objects – August 04 2024

<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 Object: Cave Nebula (SH2-155) Close Star: SAO-20268 (Iota Cephei) Catalog Objects: B-168, IC-5146 Imaging Window: 10:48 – 04:10 Transit: 02:25 76°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</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 Object: Cave Nebula (SH2-155) Close Star: SAO-20268 (Iota Cephei) Catalog Objects: B-168, IC-5146 Imaging Window: 10:48 – 04:10 Transit: 02:25 76°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<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: 10:02 – 04:10 Transit: 01:47 67°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 



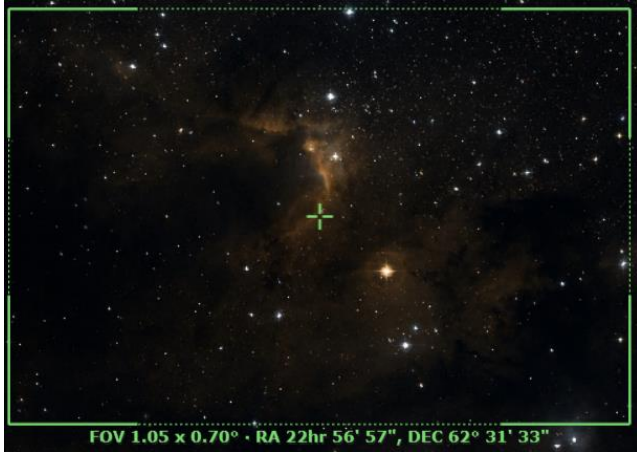
Prospective Imaging Objects – August 04 2024

<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: 10:02 – 04:10 Transit: 01:47 67°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</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: 10:02 – 04:10 Transit: 01:47 67°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<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" Camera Rotation = 115° East (-245)</p> <p>Close Star: SAO-72191 (1 Lacertae) Catalog Objects: NGC7317, NGC7331 Imaging Window: 10:29 – 04:10 Transit: 02:04 89°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 




Prospective Imaging Objects – August 04 2024

<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: NGC7317 Imaging Window: 10:29 – 04:10 Transit: 02:04 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<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: 10:30 – 04:10 Transit: 02:05 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</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: 10:32 – 04:13 Transit: 02:15 89°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 

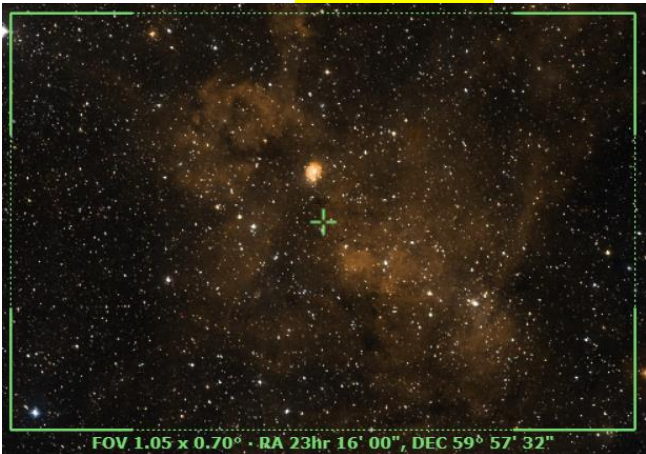


Prospective Imaging Objects – August 04 2024

<p>Wizard Nebula (SH 2-142)</p> <p>Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Cepheus</p> <p>Coordinates: 22h 47' 26" 58° 03' 03"</p> <p>Close Star: SAO-20268 (Iota Cephei)</p> <p>Catalog Objects: SH2-142</p> <p>Imaging Window: 10:32 – 04:13</p> <p>Transit: 02:15 89°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Wizard Nebula (NGC-7380) Constellation: Cepheus RA: 22h 47m 26s, DEC: 58° 03' 03" Size: 40.8 x 27.2 arcmin Orientation: 8.2deg E of N Pixel scale: 0.441 arcsec/pixel F1-200mm Artem Votaw (Heavily) 2018 F1.0, 2020 F1.0, 2020 F1.0 Location: Chandler, AZ E-quip: C-11 HD, APM102CQ, L1.5-CX, L1.5-CX Exposure: 100 30000 Gain: 3200 Offset: 100</p>
<p>Cave Nebula (SH2-155)</p> <p>Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus</p> <p>Coordinates: 23h 00' 57" 62° 04' 09"</p> <p>Close Star: SAO-20268 (Iota Cephei)</p> <p>Catalog Objects: SH2-155</p> <p>Imaging Window: 10:48 – 04:10</p> <p>Transit: 02:25 61°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">SH2-155 (Cave Nebula) Constellation: Cepheus RA: 23h 00m 57s, DEC: 62° 04' 09" Size: 15.0 x 10.0 arcmin Orientation: 0.0deg E of N Pixel scale: 0.441 arcsec/pixel F1-200mm Artem Votaw (Heavily) 2018 F1.0, 2020 F1.0, 2020 F1.0 Location: Chandler, AZ E-quip: C-11 HD, HyperStar v4, L1.5-CX, L1.5-CX Exposure: 100 30000 Gain: 3200 Offset: 100</p>
<p>Cave Nebula (SH2-155)</p> <p>Config: C11-HD FR ZWO6200MC </p> <p>Type: Bright & Dark Nebula</p> <p>Constellation: Cepheus</p> <p>Coordinates: 22h 56' 57" 62° 31' 33"</p> <p>Close Star: SAO-20268 (Iota Cephei)</p> <p>Catalog Objects: SH2-155</p> <p>Imaging Window: 10:48 – 04:10</p> <p>Transit: 02:25 61°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="font-size: small;">FOV 1.05 x 0.70° · RA 22hr 56' 57", DEC 62° 31' 33"</p>




Prospective Imaging Objects – August 04 2024

<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: 10:48 – 04:10 Transit: 02:25 61°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Cave Nebula (SH2-155) James Yoder Location: Maunakea Ground (2020-10-16), Chandler (2020-10-19), AZ Config: C-11 HD ZWO6200MC Exposure Info: 1600ms@5min Gain: 3200 OIBSet: 180</p>
<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: 11:42 – 04:10 Transit: 02:33 62°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">NGC-7479 Constellation: Pegasus R.A. = 23h 04m 58.2s, DEC = +12deg 18' 37.3" Size = 31.4 x 21.0 arcmin Orientation: 0.0 deg E of N Pixel scale = 0.446 arcsec/pixel FL=2100mm James Yoder Location: Maunakea Ground (2020-10-16), Chandler (2020-10-19), AZ Config: C-11 HD ZWO6200MC Exposure Info: 1600ms@5min Gain: 3200 OIBSet: 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, NGC-7635 Imaging Window: 11:03 – 04:10 Transit: 02:44 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 R.A. = 23h 18m 25.8s, DEC = +60deg 31' 17.8" Size = 2.68 x 1.79 deg Orientation: 0deg E of N Pixel scale = 2.28 arcsec/pixel FL=540mm James Yoder Date: (2020-10-21) Location: Chandler, AZ Config: C-11 HD HyperStar V4 Astroconda C2.5-C-CD QHY128C Exposure Info: 260ms@3min Gain: 3200 OIBSet: 180</p>

Prospective Imaging Objects – August 04 2024

<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: 11:03 – 04:10 Transit: 02:44 63°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="text-align: center;">FOV 1.05 x 0.70° - RA 23hr 16' 00\", DEC 59° 57' 32"</p>
<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: 11:09 – 04:10 Transit: 03:49 62°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;">Bubble Nebula (NGC-7635) Constellation: Cassiopeia</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: 12:10 – 04:10 Transit: 02:48 65°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="text-align: center;">FOV 1.05 x 0.70° - RA 23hr 20' 13\", DEC 08° 11' 08"</p>


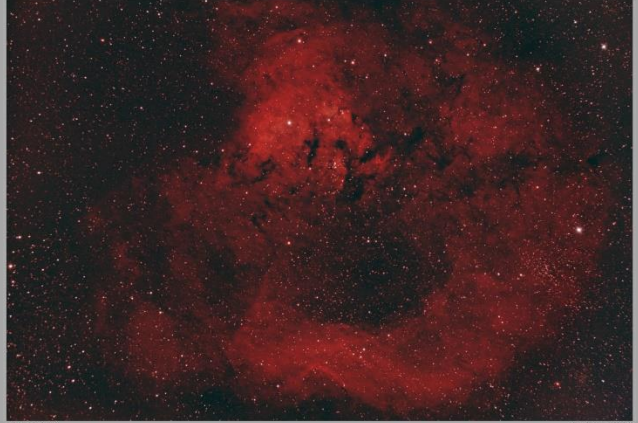
Prospective Imaging Objects – August 04 2024

<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: 12:10 – 04:10 Transit: 02:48 65°</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 20' 13", DEC 08° 10' 57"</p>
<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: 11:14 – 04:10 Transit: 02:52 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: 11:10 – 04:10 Transit: 02:54 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>

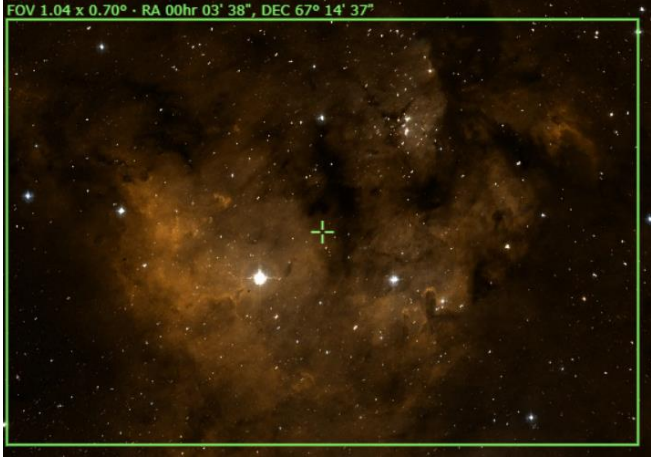


Prospective Imaging Objects – August 04 2024

<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: 11:11 – 04:10 Transit: 02:57 81°</p>	<p>C-11 HD: HyperStar v4</p> <p>FOV 3.81 x 2.54° · RA 23hr 39' 35", DEC 48° 54' 43"</p>
<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: 11:40 – 04:10 Transit: 03:25 65°</p>	<p>C-11 HD: Primary Focus</p> <p>FOV 0.73 x 0.49° · RA 23hr 57' 37", DEC 56° 42' 21"</p>




Prospective Imaging Objects – August 04 2024

<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</p> <p>Imaging Window: 12:07 – 04:10 Transit: 03:29 56°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4 Composite!</p>  <p><small>NGC-7822 Region Constellation: Cepheus RA: 00h 03m 42s DEC: 67° 41' 45" (Frame 01) RA: 00h 03m 42s DEC: 65° 35' 15" (Frame 02) www.fishkill.com HyperStar v4 Composite Copyright © 2024 Fishkill.com Equipment: C-11 HD HyperStar v4, ZWO6200MC</small></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: NGC-7822/CED-214 Imaging Window: 12:07 – 04:10 Transit: 03:29 56°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p><small>NGC-7822 Constellation: Cepheus www.fishkill.com HyperStar v4 Copyright © 2024 Fishkill.com Equipment: C-11 HD HyperStar v4, ZWO6200MC</small></p>


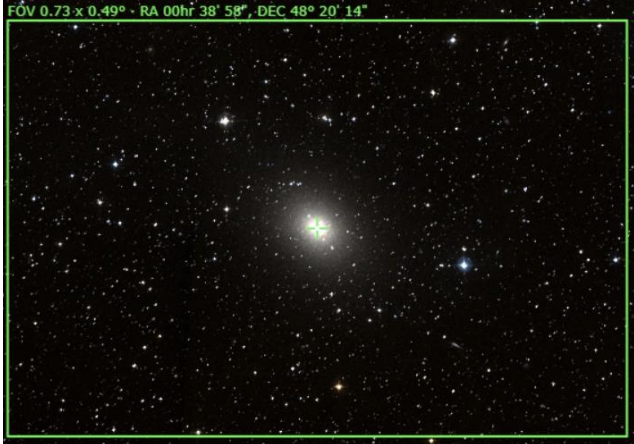

Prospective Imaging Objects – August 04 2024

<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: NGC-7822/CED-214 Imaging Window: 12:07 – 04:10 Transit: 03:29 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: 12:07 – 04:10 Transit: 03:29 56°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Bright Nebula NGC-7822 (Ced 214) Constellation: Cepheus RA: 00h 13m 01.00s, DEC: 72° 31' 21.00\" data-bbox="436 568 868 578"/></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: 12:52 – 04:10 Transit: 03:41 51°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

Prospective Imaging Objects – August 04 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: 12:17 – 04:10 Transit: 03:46 87°</p>	<p style="text-align: center;">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: 12:14 – 04:10 Transit: 04:10 75°</p>	<p style="text-align: center;">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, NGC-185 Imaging Window: 12:14 – 04:10 Transit: 04:01 75°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer Composite!</p> 

Prospective Imaging Objects – August 04 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: 12:14 – 04:10 Transit: 04:01 75°</p>	<p style="text-align: center;">Primary Focus</p>  <p style="font-size: small; text-align: center;">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;">James VanDyke 2018-07-22 Location: Maricopa Grande, Prescott, AZ Config: C11-L1 Camera, Bruder Rigolite Filter (QSI725L) Exposure Info: (348img)Gain: Gain: 3200 (Offset: 100)</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-147 Imaging Window: 12:14 – 04:10 Transit: 04:01 75°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small; text-align: center;">FOV 0.73 x 0.49° - RA 00hr 38' 58", DEC 48° 20' 14"</p> <p style="font-size: x-small; text-align: right;">James VanDyke 2018-07-22 Location: Maricopa Grande, Prescott, AZ Config: C11-L1 Camera, Bruder Rigolite Filter (QSI725L) Exposure Info: (348img)Gain: Gain: 3200 (Offset: 100)</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: 12:25 – 04:10 Transit: 04:08 82°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: x-small; text-align: center;">M-110 (NGC-205) Constellation: Andromeda RA = 00h 40m 21.6s DEC = +41deg 41' 07" Size = 41.2 x 27.5 arcmin Orientation: 9.5deg E of N Pixel scale = 0.448 arcsec/pixel F1-C170nm</p> <p style="font-size: x-small; text-align: right;">James VanDyke 2018-07-22 Location: Maricopa Grande, Prescott, AZ Config: C11-L1 Camera, Bruder Rigolite Filter (QSI725L) Exposure Info: (348img)Gain: Gain: 3200 (Offset: 100)</p>

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Prospective Imaging Objects – August 04 2024

Imaging Summary August 04, 2024

Astronomical Dusk = 08:56

Astronomical Dawn = 04:10

HyperStar: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Nebula	Nebula	M-8	*08:56-11:39	09:32	04	Sagittarius: Lagoon Nebula
HyperStar	Nebula	Nebula	M-16	*08:56-12:57	09:47	09	Serpens: Eagle Nebula
HyperStar	Nebula	Nebula	M-17	*08:56-12:50	09:49	10	Sagittarius: Omega Nebula
HyperStar	Nebula	Nebula	NGC-6820	08:56 – 02:34	11:11	20	Vulpecula: Open Cluster & Nebula
HyperStar	Nebula	Nebula	B-144	08:56 – 03:09	11:26	23	Cygnus: Fish on the Platter Region
HyperStar	Nebula	Nebula	IC-1318 A & B	08:56 – 03:35	11:45	27	Comp2! Cygnus: Gama Cygni Nebula
HyperStar	Nebula	Nebula	IC-1318A	08:56 – 03:35	11:45	27	Cygnus: Bright Nebula Region of Interest
HyperStar	Nebula	Nebula	IC-1318B	08:58 – 03:44	11:56	28	Cygnus: Bright Nebula Region of Interest
HyperStar	Nebula	Nebula	IC-5070	08:56 – 04:10	12:19	30	Comp2! Cygnus: Pelican & N. American Nebula
HyperStar	Nebula	Nebula	IC-5070	08:56 – 04:10	12:19	30	Cygnus: Pelican & N. American Nebula
HyperStar	Nebula	DN	LDN-904	08:56 – 04:09	12:21	31	Cygnus: Northern Coal Sack
HyperStar	Nebula	Nebula	NGC-6960	08:56 – 03:59	12:21	31	Comp2! Cygnus: Veil Nebula
HyperStar	Nebula	Nebula	NGC-6960	08:56 – 03:59	12:21	31	Cygnus: Veil Nebula
HyperStar	Nebula	Nebula	IC-1396	09:23 – 04:10	01:07	37	Cepheus: Elephant Trunk
HyperStar	Nebula	DN, BN	B-168	09:35 – 04:10	01:21	40	Cygnus: Dark Cocoon
HyperStar	Nebula	Nebula	SH2-132	10:02 – 04:10	01:47	42	Cepheus: SH2-132
HyperStar	Nebula	Nebula	SH2-155	10:48 – 04:10	02:25	45	Cepheus: Cave Nebula
HyperStar	Nebula	Nebula	SH2-157	11:03 – 04:10	02:44	46	Cassiopeia: Lobster Claw and Bubble Nebula
HyperStar	Nebula	Nebula	LBN 534	11:11 – 04:10	02:57	49	Andromeda: Blue Match Nebula
HyperStar	Nebula	Nebula	NGC-7822	12:07 – 04:10	03:29	50	Comp2! Cepheus: NGC-7822 region
HyperStar	Nebula	Nebula	NGC-7822	12:07 – 04:10	03:29	50	Cepheus CED-214

Prospective Imaging Objects – August 04 2024

HyperStar: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Broad Spectrum	DN	IC-1283	*08:56-12:27	09:45	08	Comp2! Sagittarius: IC-1283 Region
HyperStar	Broad Spectrum	DN	B-138	08:56 – 12:58	10:42	17	Aquila: Barnard's Black Lizard
HyperStar	Broad Spectrum	DN	LDN-673	08:56 – 01:43	10:49	18	Aquila: Dark Nebula Area
HyperStar	Broad Spectrum	DN	LDN-772	08:56 – 02:17	10:53	18	Vulpecula: Lot Ness Monster
HyperStar	Broad Spectrum	DN	B-168	10:48 – 04:10	02:25	42	Cepheus: Wolf Cave
HyperStar	Broad Spectrum	Galaxy	M-31	12:28 – 04:10	04:10	54	Andromeda: Andromeda Galaxy

Prospective Imaging Objects – August 04 2024

Imaging Summary August 04, 2024

Astronomical Dusk = 08:56

Astronomical Dawn = 04:10

Focal Reducer: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Nebula	Nebula	M-20	*08:56-11:50	09:31	05	Sagittarius: Trifid Nebula
Focal Reducer	Nebula	Nebula	M-8	*08:56-11:39	09:32	05	Comp2! Sagittarius: Lagoon Nebula
Focal Reducer	Nebula	Nebula	M-8	*08:56-11:39	09:32	05	Sagittarius: Lagoon Nebula
Focal Reducer	Nebula	Nebula	IC-4685	*08:56-11:50	09:40	07	Rotation 90: Sagittarius: DN and Emission Nebula
Focal Reducer	Nebula	Nebula	IC-1274	*08:56-11:50	09:40	07	Sagittarius: Bright and Dark Nebula
Focal Reducer	Nebula	Nebula	M-16	*08:56-12:57	09:47	10	Serpens: Eagle Nebula
Focal Reducer	Nebula	Nebula	M-17	*08:56-12:50	09:49	11	Sagittarius: Omega Nebula
Focal Reducer	Nebula	Nebula	NGC-6820	08:56 – 02:34	11:11	20	Vulpecula: The Finger
Focal Reducer	Nebula	Nebula	SH2-101	08:56 – 03:09	11:26	23	Cygnus: Tulip Nebula
Focal Reducer	Nebula	Nebula	IC-1318 R1	08:56 – 03:43	11:53	28	Cygnus: IC-1318 Region of Interest
Focal Reducer	Nebula	Nebula	IC-1318B	08:58 – 03:44	11:556	29	Cygnus: IC-1318B Region of Interest
Focal Reducer	Nebula	Nebula	NGC-6960	08:56 – 03:59	12:21	32	Comp2! Cygnus: Witch's Broom
Focal Reducer	Nebula	Nebula	NGC-6960B	08:56 - 03:59	12:21	32	Cygnus: Pickering's Triangular Wisp
Focal Reducer	Nebula	Nebula	NGC-6992	10:56 – 04:03	12:24	33	Comp2! Cygnus: Network Nebula
Focal Reducer	Nebula	Nebula	IC-1396-1	09:23 – 04:10	01:07	38	Cepheus: Elephant Trunk ROI
Focal Reducer	Nebula	Nebula	IC-1396-2	09:23 – 04:10	01:07	38	Cepheus: Elephant Trunk ROI
Focal Reducer	Nebula	Nebula	IC-5146	09:35 – 04:10	01:21	40	Cygnus: Cocoon Nebula
Focal Reducer	Nebula	Nebula	SH2-132	10:02 – 04:10	01:47	43	Cepheus: Bright Nebula
Focal Reducer	Nebula	Nebula	SH2-142	10:32 – 04:13	02:15	44	Cepheus: Wizard Nebula
Focal Reducer	Nebula	Nebula	SH2-155	10:48 – 04:10	02:25	45	Cepheus: Cave Nebula
Focal Reducer	Nebula	Nebula	SH2-157	11:03 – 04:10	02:44	47	Cassiopeia: Lobster Claw

Prospective Imaging Objects – August 04 2024

Focal Reducer: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Broad Spectrum	OC, DN	M-24	*08:56-12:31	09:45	09	Sagittarius: Sagittarius Star Cloud
Focal Reducer	Broad Spectrum	DN	B-143	08:56 – 02:02	11:09	19	Aquila: Barnard's E
Focal Reducer	Broad Spectrum	RN	NGC-7023	09:11 – 03:55	12:30	34	Cepheus: Iris Nebula
Focal Reducer	Broad Spectrum	OC	M-39	09:13 – 04:10	01:00	36	Cygnus: Open Cluster NGC-7092
Focal Reducer	Broad Spectrum	DN	LDN-1235	11:04 – 04:10	01:43	41	Cepheus: Dark Shark
Focal Reducer	Broad Spectrum	DN	B-168	10:48 – 04:10	02:25	42	Cepheus: Wolf's Cave
Focal Reducer	Broad Spectrum	Galaxies	NGC7317	10:29 – 04:10	02:04	43	Pegasus: Stephan's Quintet & NGC-7331
Focal Reducer	Broad Spectrum	Galaxies	NGC-7619	12:10 – 04:10	02:48	47	Pegasus: Pegasus Cluster

Prospective Imaging Objects – August 04 2024

Imaging Summary August 04, 2024

Astronomical Dusk = 08:56

Astronomical Dawn = 04:10

Primary Focus: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	PN	NGC-6359	*08:56-11:13	08:58	02	Ophiuchus: Little Ghost
Primary Focus	Nebula	PN	NGC-6445	*08:56-11:54	09:18	03	Sagittarius: Box Nebula
Primary Focus	Nebula	PN	NGC-6543	08:56 – 12:58	09:27	04	Draco: Cat's Eye Nebula
Primary Focus	Nebula	Nebula	M-20	*08:56-11:50	09:31	05	Sagittarius: Trifid Nebula
Primary Focus	Nebula	Nebula	M-8	*08:56-11:39	09:32	06	Sagittarius: Lagoon Nebula
Primary Focus	Nebula	PN	NGC-6572	08:56 – 12:20	09:41	07	Ophiuchus: Emerald Nebula
Primary Focus	Nebula	Nebula	IC-1283	*08:56-12:27	09:45	09	Sagittarius: Nebula region NGC-6589
Primary Focus	Nebula	Nebula	M-17	*08:56-12:50	09:49	11	Sagittarius: Omega Nebula
Primary Focus	Nebula	PN	NGC-6629	*08:56-12:09	09:54	12	Sagittarius: Sm Planetary Nebula
Primary Focus	Nebula	PN	IC-4776	*08:56-11:50	10:14	14	Sagittarius: Sm Planetary Nebula
Primary Focus	Nebula	PN	M-57	08:56 – 02:02	10:22	15	Lyra: Ring Nebula
Primary Focus	Nebula	PN	Abell-50	08:56 – 02:21	10:28	16	Draco: Med Planetary Nebula
Primary Focus	Nebula	PN	NGC-6751	*08:56-01:46	10:34	16	Aquila: Dandelion Puffball Nebula (Sm)
Primary Focus	Nebula	PN	NGC-6772	*08:56-02:34	10:43	16	Aquila: Med Planetary Nebula
Primary Focus	Nebula	PN	NGC-6778	08:56 – 12:50	10:47	17	Aquila: Small Planetary Nebula
Primary Focus	Nebula	PN	NGC-6781	08:56 – 01:26	10:47	18	Aquila: Med Planetary Nebula
Primary Focus	Nebula	PN	NGC-6804	08:56 – 01:48	11:00	19	Aquila: Small Planetary Nebula
Primary Focus	Nebula	Nebula	NGCC-6820	08:56 – 02:34	11:11	20	Vulpecula: The Finger
Primary Focus	Nebula	PN	NGC-6818	*08:56-02:19	11:12	21	Sagittarius: Little Gem
Primary Focus	Nebula	PN	NGC-6826	08:56 – 03:07	11:13	21	Cygnus: Blinking Planetary
Primary Focus	Nebula	PN	NGC-6842	08:56 – 02:58	11:23	22	Vulpecula: Sm-Med Planetary Nebula
Primary Focus	Nebula	PN	M-27	08:56 – 02:51	11:28	22	Vulpecula: Dumbbell Nebula
Primary Focus	Nebula	Nebula	SH2-101	08:56 – 03:09	11:26	23	Cygnus: Tulip Nebula
Primary Focus	Nebula	PN	NGC-6852	09:15 – 01:49	11:29	24	Aquila: Small Planetary Nebula

Prospective Imaging Objects – August 04 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	Nebula	NGC-6888	08:56 – 03:27	11:40	24	Cygnus: Crescent Nebula
Primary Focus	Nebula	Nebula	DWB-111	08:56 – 03:32	11:42	25	Cygnus: Propeller Nebula
Primary Focus	Nebula	PN	NGC-6891	08:56 – 02:42	11:43	25	Delphinus: Small Planetary Nebula
Primary Focus	Nebula	PN	NGC-5894	08:56 – 03:21	11:45	25	Cygnus: Little Ring Nebula (Sm-Med)
Primary Focus	Nebula	PN	IC-4997	08:56 – 02:58	11:48	26	Sagitta: Small PN
Primary Focus	Nebula	PN	NGC-6905	08:56 – 03:08	11:51	26	Delphinus: Blue Flash Nebula
Primary Focus	Nebula	BN	IC-1318-1	08:56 – 03:43	11:53	28	Cygnus: Region of interest in IC-1318
Primary Focus	Nebula	BN	IC-1318B	08:58 – 03:44	11:56	29	Cygnus: Region of interest in IC-1318B
Primary Focus	Nebula	PN	NGC-7008	08:56 – 04:10	12:29	34	Cygnus: Fetus Nebula
Primary Focus	Nebula	PN	NGC-7009	*09:47-03:23	12:32	35	Aquarius: Saturn Nebula
Primary Focus	Nebula	PN	NGC-7026	08:56 – 04:10	12:34	35	Cygnus: Small PN
Primary Focus	Nebula	PN	NGC-7027	08:56 – 04:10	12:35	35	Cygnus: Small PN
Primary Focus	Nebula	PN	NGC-7048	08:56 – 04:10	12:42	36	Cygnus: Med PN
Primary Focus	Nebula	PN	NGC-7094	10:12 – 04:04	01:05	37	Pegasus: Med PN
Primary Focus	Nebula	DN	IC-1396-1	09:23 – 04:10	01:07	38	Cepheus: Elephant Trunk ROI
Primary Focus	Nebula	BN	IC-1396-2	09:23 – 04:10	01:07	39	Cepheus: Elephant Trunk RIO
Primary Focus	Nebula	BN	IC-1396-3	09:23 – 04:10	01:07	39	Cepheus: Elephant Trunk RIO
Primary Focus	Nebula	PN	NGC-7139	09:40 – 04:10	01:14	40	Cepheus: Med/Lrg Planetary
Primary Focus	Nebula	BN	IC-5146	09:35 – 04:10	01:21	41	Cygnus: Cocoon Nebula
Primary Focus	Nebula	PN	NGC-7293	*11:28-04:10	01:57	41	Aquarius: Helix Nebula
Primary Focus	Nebula	Nebula	SH2-132	10:02 – 04:10	01:47	43	Cepheus: Bright Nebula
Primary Focus	Nebula	Nebula	SH2-142	10:32 – 04:13	02:15	45	Cepheus: Wizard Nebula
Primary Focus	Nebula	Nebula	SH2-155	10:48 – 04:10	02:25	46	Cepheus: Cave Nebula
Primary Focus	Nebula	Nebula	NGC-7635	11:09 – 04:10	03:49	47	Cepheus: Bubble Nebula
Primary Focus	Nebula	Nebula	NGC-7662	11:10 – 04:10	02:54	48	Andromeda: Blue Snowball
Primary Focus	Nebula	Nebula	NGC-7822	12:07 – 04:10	03:29	51	Cepheus: Emission Nebula Ced 214
Primary Focus	Nebula	PN	NGC-40	12:52 – 04:10	03:41	51	Cepheus: Bow-Tie Nebula

Prospective Imaging Objects – August 04 2024

Imaging Summary August 04, 2024

Astronomical Dusk = 08:56

Astronomical Dawn = 04:10

Primary Focus: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Globular	M-14	08:56 – 11:00	09:06	02	Ophiuchus: Med Globular NGC-6402
Primary Focus	Broad Spectrum	OC	M-6	*08:56-10:50	09:09	02	Scorpius: Butterfly Cluster
Primary Focus	Broad Spectrum	DN	B-84	*08:56-11:54	09:15	03	Sagittarius: Praying Matis Nebula
Primary Focus	Broad Spectrum	OC	M-7	*08:56-10:28	09:22	03	Scorpius: Ptolemy Cluster
Primary Focus	Broad Spectrum	OC	M-23	*08:56-12:12	09:26	04	Sagittarius: Open Cluster NGC-6494
Primary Focus	Broad Spectrum	OC	M-21	*08:56-11:50	09:33	06	Sagittarius: Open Cluster NGC-6531
Primary Focus	Broad Spectrum	DN	B-93	*08:56-12:31	09:45	08	Sagittarius: Dark Nebula LDN-327
Primary Focus	Broad Spectrum	OC	M-18	*08:56-12:42	09:48	10	Sagittarius: Open Cluster NGC-66133
Primary Focus	Broad Spectrum	GC	M-28	*08:56-11:54	09:53	11	Sagittarius: Med Globular NGC-6626
Primary Focus	Broad Spectrum	OC	NGC-6633	08:56 – 12:35	09:56	12	Ophiuchus: Open Cluster NGC-6633
Primary Focus	Broad Spectrum	GC	M-69	*08:56-11:50	10:00	12	Sagittarius: Med Globular NGC-6637
Primary Focus	Broad Spectrum	OC	M-25	*08:56-12:42	10:00	13	Sagittarius: Open Cluster IC-4725
Primary Focus	Broad Spectrum	GC	M-22	*08:56-12:20	10:05	13	Sagittarius: Med Globular NGC-6656
Primary Focus	Broad Spectrum	GC	M-70	*08:56-12:01	10:12	13	Sagittarius: Sm Globular NGC-6681
Primary Focus	Broad Spectrum	OC	M-26	*08:56-01:12	10:14	14	Sagittarius: Open Cluster NGC-6694
Primary Focus	Broad Spectrum	DN	B-104	*08:56-01:34	10:16	14	Scutum: Check mark
Primary Focus	Broad Spectrum	OC	M-11	*08:56-01:57	10:20	15	Scutum: Wild Duck Cluster
Primary Focus	Broad Spectrum	GC	M-54	*09:25-11:28	10:23	15	Sagittarius: Med Globular
Primary Focus	Broad Spectrum	GC	M-56	08:56 – 02:21	10:45	17	Lyra: Med Globular
Primary Focus	Broad Spectrum	GC	M-55	*10:39-12:01	11:08	19	Sagittarius: Large Globular
Primary Focus	Broad Spectrum	Galaxy	NGC-6822	*08:56-02:15	11:13	21	Sagittarius: Barnard's Galaxy (Large Galaxy)
Primary Focus	Broad Spectrum	GC	M-71	08:56 – 02:36	11:22	22	Sagitta: Med Globular
Primary Focus	Broad Spectrum	GC	M-75	*09:17-10:57	11:34	4	Sagittarius: Med Globular
Primary Focus	Broad Spectrum	OC	M-29	08:56 -03:39	11:52	26	Cygnus: Open Cluster in Cygnus

Prospective Imaging Objects – August 04 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	NGC-6946	08:56 – 03:51	12:03	29	Cepheus: Fireworks Galaxy (Large Face On)
Primary Focus	Broad Spectrum	GC	M-72	*09:43-03:04	12:22	32	Aquarius: Medium Globular
Primary Focus	Broad Spectrum	OC	M-73	*09:47-03:10	12:27	33	Aquarius: Open Cluster NGC-6994
Primary Focus	Broad Spectrum	RN	NGC-7023	09:11 – 03:55	12:30	34	Cepheus: Iris Nebula
Primary Focus	Broad Spectrum	GC	M-15	10:07 – 03:55	12:58	36	Pegasus: Pegasus Cluster
Primary Focus	Broad Spectrum	GC	M-2	11:01 – 03:09	01:01	37	Aquarius: Large Globular
Primary Focus	Broad Spectrum	GC	M-30	*10:57-03:26	01:08	39	Capricornus: Med Globular
Primary Focus	Broad Spectrum	Galaxies	NGC-7317	10:29 – 04:10	02:04	44	Pegasus: Stephan's Quintet
Primary Focus	Broad Spectrum	Galaxies	NGC-7331	10:30 – 04:10	02:05	44	Pegasus: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	NGC-7479	11:42 – 04:10	02:33	46	Pegasus: Face on Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-7619	12:10 – 04:10	02:48	48	Pegasus: Pegasus Cluster
Primary Focus	Broad Spectrum	OC	M-52	11:14 – 04:10	02:52	48	Cassiopeia: Open Cluster NGC-7654
Primary Focus	Broad Spectrum	OC	NGC-7789	11:40 – 04:10	03:25	49	Cassiopeia: Caroline's Rose
Primary Focus	Broad Spectrum	Galaxies	NGC 67-72	12:17 – 04:10	03:46	52	Andromeda: Andromeda Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	NGC-147	12:14 – 04:10	04:01	53	Cassiopeia: Dwarf Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-185	12:14 – 04:10	04:01	53	Cassiopeia: Dwarf Spheroidal Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-110	12:25 – 04:10	04:08	53	Andromeda: Elliptical Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-32	12:28 – 04:10	04:10	54	Andromeda: Companion to M-31
Primary Focus	Broad Spectrum						

Prospective Imaging Objects – August 04 2024

Imaging Summary August 04, 2024

Astronomical Dusk = 08:56

Astronomical Dawn = 04:10

Primary Prospects

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	HyperStar	Broadband	DN	IC-1283	*08:56-12:27	09:45	08	Comp2! Sagittarius: DNebula NGC-6589
	HyperStar	Nebula	Nebula	M-17	*08:56-12:50	09:49	10	Sagittarius: Omega Nebula
	HyperStar	Broadband	DN	B-138	08:56 – 12:58	10:42	17	Aquila: Barnard’s Black Lizard
	HyperStar	Broadband	DN	LDN-673	08:56 – 01:43	10:49	18	Aquila: Dark Nebula
	HyperStar	Nebula	Nebula	NGC-6820	08:56 – 02:34	11:11	20	Vulpecula: Nebula Region
	HyperStar	Nebula	Nebula	IC-1318A	08:56 – 03:35	11:45	27	Cygnus: Cygnus ROI
	HyperStar	Nebula	Nebula	IC-1318B	08:58 – 03:44	11:56	28	Cygnus: Cygnus ROI
	HyperStar	Nebula	DN	LDN-904	08:56 – 04:09	12:21	31	Cygnus: Northern Coal Sack
	HyperStar	Nebula	Nebula	NGC-5960	08:56 – 03:59	12:21	31	Comp2! Cygnus: Veil Nebula
	HyperStar	Nebula	BN & DN	B-168	09:35 – 04:10	01:21	40	Cygnus: Dark Cocoon
	HyperStar	Nebula	Nebula	SH2-132	10:02 – 04:10	01:47	42	Cepheus: Bright Nebula
	HyperStar	Nebula	Nebula	SH2-155	11:11 – 044:10	02:57	49	Andromeda: Blue Match Nebula
	HyperStar	Broadband	OC	NGC-7789	11:40 – 04:10	03:25	49	Cassiopeia: Caroline’s Rose
	HyperStar							
	HyperStar							
	HyperStar							
	HyperStar							
	HyperStar	Nebula						
	Focal Reducer	Nebula	Neb, DN	IC-4685	*08:56-11:50	09:40	07	Rot90 Sagittarius: Bright and Dark nebula
	Focal Reducer	Nebula	Nebula	M-16	*08:56-12:57	09:47	10	Serpens: Eagle Nebula
	Focal Reducer	Nebula	Nebula	M-17	*08:56-12:50	09:49	11	Sagittarius: Omega Nebula
	Focal Reducer	Broadband	DN	B-143	08:56 – 02:02	11:09	19	Aquila: Barnard’s E
	Focal Reducer	Nebula	Nebula	SH2-101	08:56 – 03:09	11:26	23	Cygnus: Tulip Nebula
	Focal Reducer	Nebula	Nebula	IC-1318B	08:56 – 03:43	11:53	28	Cygnus: IC-1318B

Prospective Imaging Objects – August 04 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Focal Reducer	Nebula	Nebula	NGC-6992	10:556 – 04:03	12:24	33	Comp2! Cygnus: Network Nebula
	Focal Reducer	Nebula	RN	NGC-7023	09:11 – 03:55	12:30	34	Cepheus: Iris Nebula
	Focal Reducer	Nebula	Nebula	IC-1396	09:23 – 04:10	01:07	38	Cepheus: Elephant Trunk RIO1
	Focal Reducer	Nebula	Nebula	IC-1396	09:23 – 04:10	01:07	38	Cepheus: Elephant Trunk RIO2
	Focal Reducer	Nebula	BN & DN	IC-5146	09:35 – 04:10	01:21	40	Cygnus: Cocoon Nebula
	Focal Reducer	Nebula	Nebula	SH2-132	10:02 – 04:10	01:47	43	Cepheus: Bright Nebula
	Focal Reducer	Broadband	Galaxies	NGC7331 et. El.	10:29 – 04:10	02:04	43	Rot! Peg: Stephan's Quintet & NGC7331
	Focal Reducer	Nebula	Nebula	SH2-142	10:32 – 04:13	02:15	44	Cepheus: Wizard Nebula
	Focal Reducer	Nebula	Nebula	SH2-155	10:48 – 04:10	02:25	45	Cepheus: Cave Nebula
	Focal Reducer	Nebula	Nebula	SH2-157	11:03 – 04:10	02:44	47	Cassiopeia: Lobster Claw ROI
	Focal Reducer	Broadband	Galaxies	NGC-7619	12:10 – 04:10	02:48	47	Pegasus: Pegasus Cluster
	Focal Reducer	Nebula	Nebula	NGC-7822	12:07 – 04:10	03:29	51	Cepheus: CED-214
	Focal Reducer							
	Primary Focus	Nebula	PN	NGC-6369	*08:56-11:13	08:58	02	Ophiuchus: Little Ghost
	Primary Focus	Broadband	DN	B-93	*08:56-12:31	09:45	08	Sagittarius: Dark Nebula LDN-327
	Primary Focus	Nebula	Nebula	IC-1283	*08:56-12:27	09:45	09	Sagittarius: Diffuse Nebula NGC-6589
	Primary Focus	Broadband	GC	M-28	*08:56-11:54	09:553	11	Sagittarius: Med GC NGC-6626
	Primary Focus	Nebula	PN	NGC-6629	*08:56-12:09	09:54	12	Sagittarius: Small PN
	Primary Focus	Broadband	GC	M-69	*08:56-11:50	10:00	12	Sagittarius: Sm-Med Globular NGC-6637
	Primary Focus	Broadband	GC	M-70	*08:56-12:01	10:12	13	Sagittarius: Sm/Med Globular NGC-6681
	Primary Focus	Nebula	PN	IC-4776	*08:56-11:50	10:14	14	Sagittarius: Small PN
	Primary Focus	Broadband	DN	B-104	*08:56-01:34	10:16	14	Scutum: Checkmark DN
	Primary Focus	Nebula	PN	Abell-50	08:56 – 02:21	10:28	16	Draco: Med Planetary Nebula
	Primary Focus	Nebula	PN	NGC-6751	*08:56-01:46	10:34	16	Aquila: Small Planetary Nebula
	Primary Focus	Nebula	PN	NGC-6772	*08:56-02:34	10:43	16	Aquila: Med Planetary Nebula
	Primary Focus	Broadband	GC	M-56	08:56 – 02:21	10:45	17	Lyra: Med Globular
	Primary Focus	Nebula	PN	NGC-6781	08:56 – 01:26	10:47	18	Aquila: Med Planetary Nebula

Prospective Imaging Objects – August 04 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Primary Focus	Nebula	PN	NGC-6804	08:56 – 01:48	11:00	19	Aquila: Small Planetary Nebula
	Primary Focus	Broadband	GC	M-55	*10:39 – 12:01	11:08	19	Sagittarius: Large Globular
	Primary Focus	Nebula	Nebula	NGC-6820	08:56 – 02:34	11:11	20	Vulpecula: The Finger
	Primary Focus	Nebula	PN	NGC-6826	08:56 – 03:07	11:13	21	Cygnus: Blinking Planetary
	Primary Focus	Broadband	Galaxy	NGC-6822	*08:56-02:15	11:13	21	Sagittarius: Barnard's Galaxy
	Primary Focus	Broadband	GC	M-71	08:56 – 02:36	11:22	22	Sagitta: Med Globular
	Primary Focus	Nebula	PN	NGC-6842	08:56 – 02:58	11:23	22	Vulpecula: Sm/Med Planetary Nebula
	Primary Focus	Nebula	Nebula	Sh2-101	08:56 – 03:09	11:26	23	Cygnus: Tulip Nebula
	Primary Focus	Broadband	GC	M-75	09:15 – 01:49	11:29	24	Sagittarius: Med Globular
	Primary Focus	Nebula	Nebula	NGC-6888	08:56 – 03:27	11:40	24	Cygnus: Crescent Nebula
	Primary Focus	Nebula	Nebula	NGC-6894	08:56 – 03:21	11:45	25	Cygnus: Sm/Med Planetary Nebula
	Primary Focus	Broadband	Galaxy	NGC-6946	08:56 – 03:51	12:03	29	Cepheus: Fireworks Galaxy
	Primary Focus	Broadband	Globular	M-72	*09:43-03:04	12:22	32	Aquarius: Med Globular NGC-6981
	Primary Focus	Nebula	PN	NGC-7009	*09:47-03:23	12:32	35	Aquarius: Saturn Nebula
	Primary Focus	Nebula	PN	NGC-7027	08:56 – 04:10	12:35	35	Cygnus: Small PN
	Primary Focus	Nebula	PN	NGC-7048	08:56 – 04:10	12:42	36	Cygnus: Sm/med PN
	Primary Focus	Broadband	Globular	M-2	11:01 – 03:09	01:01	37	Aquarius: Large GC NGC-7089
	Primary Focus	Nebula	PN	NGC-7094	10:12 – 04:04	01:05	37	Pegasus: sm/med PN
	Primary Focus	Nebula	DN	IC-1396	09:23 – 04:10	01:07	38	Cepheus: Dark Nebula
	Primary Focus	Nebula	Nebula	IC-1396	09:23 – 04:10	01:07	39	Cepheus: Elephant Trunk RIO 1
	Primary Focus	Nebula	Nebula	IC-1396	09:23 – 04:10	01:07	39	Cepheus: Elephant Trunk RIO 2
	Primary Focus	Broadband	Globular	M-30	*10:54-03:26	01:08	39	Capricornus: Med Globular NGC-7099
	Primary Focus	Nebula	Nebula	SH2-132	10:02 – 04:10	01:47	43	Cepheus: Bright Nebula
	Primary Focus	Broadband	Galaxies	NGC-7317	10:29 – 04:10	02:04	44	Pegasus: Stephan's Quintet
	Primary Focus	Broadband	Galaxies	NGC-7619	12:10 – 04:10	02:48	47	Pegasus: Pegasus Cluster
	Primary Focus	Nebula	PN	NGC-7662	11:10 – 04:10	02:54	48	Andromeda: Blue Snowball
	Primary Focus	Nebula	PN	NGC-40	12:52 – 04:10	03:41	51	Cepheus: Bow-Tie Nebula
	Primary Focus	Broadband	Galaxies	NGC 67-72	12:17 – 04:10	03:46	52	Andromeda: Andromeda Galaxy Group

Prospective Imaging Objects – August 04 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments

Prospective Imaging Objects – August 04 2024

Imaging Summary August 04, 2024

Astronomical Dusk = 08:56

Astronomical Dawn = 04:10

Imaging Plans

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