

Prospective Imaging Objects – May 08 2024

Astronomical Data

Sunrise	Sunset	Astronomical Dusk	Astronomical Dawn	Imaging	New Moon
05:32am	07:16 pm	08:50 pm	03:59 am	07:09	May 08

Hardware Info

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

How to use this document


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

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

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

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

Primary Focus



Sculptor Galaxy (NGC 253)
 Constellation: Sculptor

01: Background Fill Color - Items that I have previously images will have a fill color of grey, Images not yet imaged will have a white background color.

02: Object Name and catalog number – Common name long with one of the reference catalog numbers associated with this object.

03: Config – The optimal configuration to image this object, and the configuration the provided image is based on based on what hardware I own. Configuration will either be the Celestron C-11 Primary focus (with focal reducer) or C-11 with HyperStar.

04: Object Image – If this is an object I have already imaged, the thumbnail is my photo. It is hyperlinked to my website, so selecting the image should open a larger image in your browser. If the object has not yet been imaged by me the image displayed is for the identified configuration as obtained from <http://www.telescopious.com>.


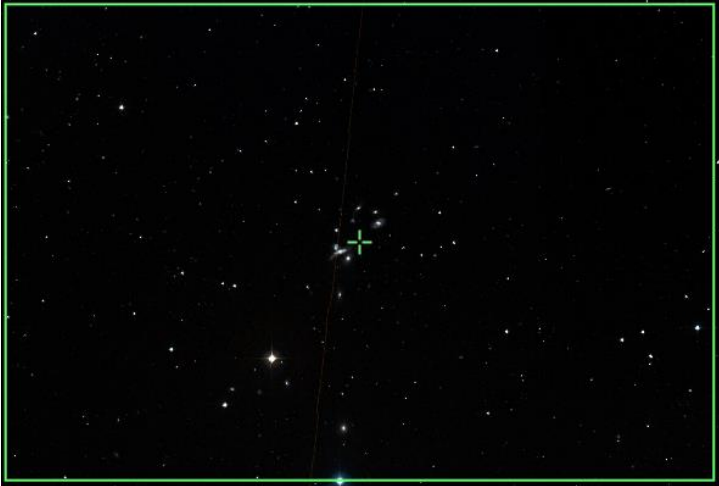

05: Close Star – A fairly bright star close to the target that can be used to check focus and sync the telescope before the imaging session begins.

06: Catalog Objects – List of objects that should appear in the field of view. When possible they are hyperlinked to <http://www.telescopious.com> where more information can be obtained.



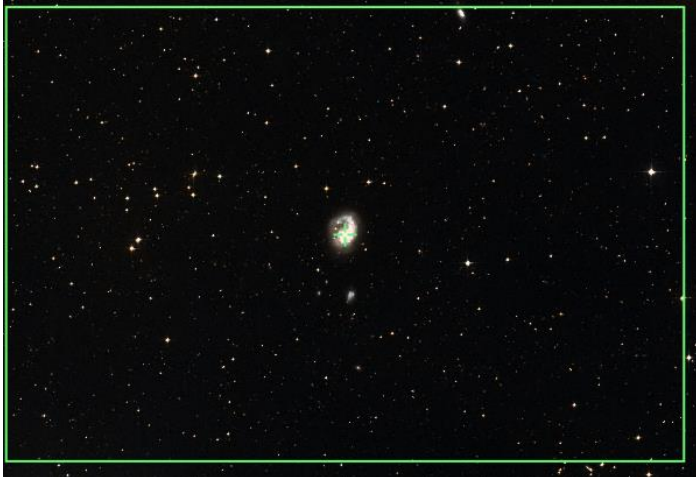
07: Imaging Window – Ideally the time the object is 45° above the horizon. Southern objects with negative DEC that do not peak above 45° are indicated with a *. Imaging window for these objects may be based on 30° or even 25° above horizon for the imaging window.

08: Transit – When the object is at the highest point in the sky for the night. For equatorial mounts this is when the meridian flip will occur.


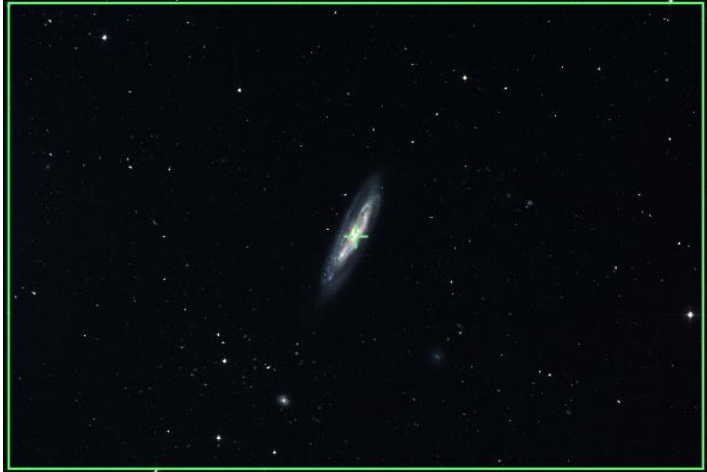

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<p>Arp-214 (NGC-3718, NGC-3729) Config: C11HD ZWO6200MC Type: Galaxy Pair</p> <p>Constellation: Ursa Major Coordinates: 11h 33' 09" 53° 05' 02"</p> <p>Close Star: SAO-28179 (Phecda) Catalog Objects: NGC-3718</p> <p>Imaging Window: 08:50 – 12:41 Transit: 08:48 70°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">NGC-3718, NGC-3729 Constellation: Ursa Major RA = 11h 33m 10.181s, DEC = +53deg 05' 44.889\"</p>
<p>Copeland's Septet (NGC-3746, 3748, 3750, 3751, 3753, 3754) Config: C11HD ZWO6200MC Type: Galaxy Cluster</p> <p>Constellation: Leo Coordinates: 11h 33' 09" 53° 05' 02"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: NGC-3746, 3748, 3750, 3751, 3753, 3754/HCG-57</p> <p>Imaging Window: 08:50 – 12:14 Transit: 08:53 79°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">NGC-3746, NGC-3748, NGC-3750, NGC-3751, NGC-3753, NGC-3754 Constellation: Leo RA = 11h 33m 10.181s, DEC = +53deg 05' 44.889\"</p>
<p>Abell 1367 (NGC-3861, et al.) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Cluster</p> <p>Constellation: Leo Coordinates: 11h 44' 40" 19° 56' 32"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: NGC-3861, 3842, dozens of others.</p> <p>Imaging Window: 08:50 – 12:17 Transit: 09:00 77°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Galaxy Cluster Abell-1367 (ARCO-1367) Constellation: Leo RA = 11h 44m 40.181s, DEC = +19deg 56' 32.889\"</p>




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<p>Wild's Triplet(Arp-248) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Ursa Major Coordinates: 11h 46' 41" -03° 51' 46"</p> <p>Close Star: SAO-28179 (Phecda) Catalog Objects: Arp-248, PGC-36742, 36733, 36723</p> <p>Imaging Window: *08:50 – 11:23 Transit: 09:02 53°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-109(NGC-3992) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Ursa Major Coordinates: 11h 57' 34" 53° 20' 59"</p> <p>Close Star: SAO-28179 (Phecda) Catalog Objects: NGC-3992</p> <p>Imaging Window: 08:50 – 01:06 Transit: 09:13 70°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-4027(PGC-37773) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Corvus Coordinates: 11h 59' 31" -19° 15' 57"</p> <p>Close Star: SAO-157923 (Spica) Catalog Objects: NGC-4027</p> <p>Imaging Window: *08:50 – 11:18 Transit: 09:15 37°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 


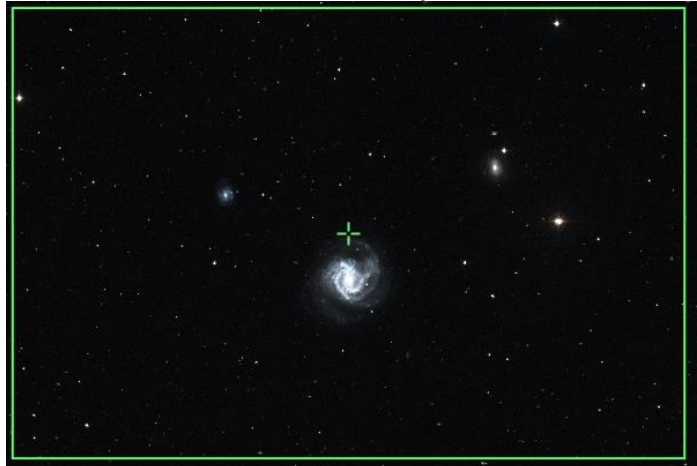
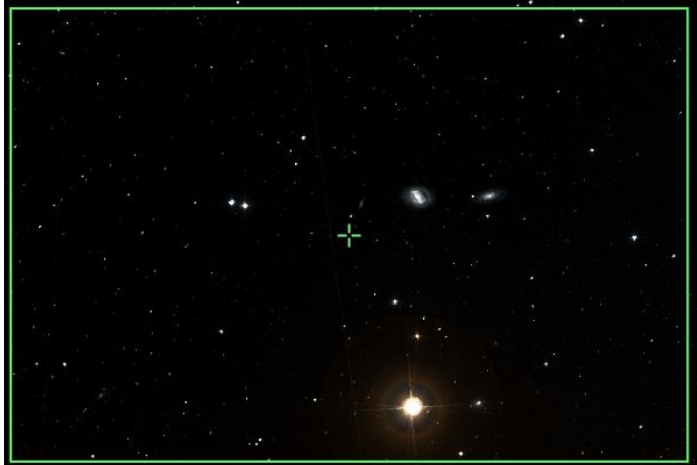
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<p>Antennae Galaxies (Arp-244) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Pair</p> <p>Constellation: Corvus Coordinates: 12h 01' 54" -18° 53' 08"</p> <p>Close Star: SAO-157923 (Spica) Catalog Objects: Arp-244/ NGC-4038, NGC-4039</p> <p>Imaging Window: *08:50 – 11:23 Transit: 09:17 38°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-98 (NGC-4192) Config: C11HD ZWO6200MC </p> <p>Type: Barred Spiral Galaxy</p> <p>Constellation: Coma Berenices Coordinates: 12h 13' 48" 14° 53' 58"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: M-98/NGC-4192</p> <p>Imaging Window: 08:50 – 12:33 Transit: 09:29 72°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-4236 (UGC 7306) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Draco Coordinates: 12h 16' 42" 69° 28' 00"</p> <p>Close Star: SAO-28553 (Alioth) Catalog Objects: NGC-4236/UGC- 7306</p> <p>Imaging Window: 08:50 – 12:50 Transit: 09:32 54°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




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<p>Silver Needle (NGC-4244) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Canes Venatici Coordinates: 12h 17' 30" 37° 48' 28"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: NGC-4244/UGC-7322 Imaging Window: 08:50 – 01:18 Transit: 09:33 86°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>St. Katherines Wheel (M99/NGC4254) Config: C11HD ZWO6200MC </p> <p>Type: Spiral Galaxy</p> <p>Constellation: Coma Berenices Coordinates: 12h 18' 49" 14° 25' 03"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: M-99/NGC-4254 Imaging Window: 08:50 – 12:37 Transit: 09:34 71°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Galaxy Group 106 Config: C11-HD HS ZWO6200MC</p> <p>Type: Galaxy Group</p> <p>Constellation: Canes Venatici Coordinates: 12h 17' 12" 47° 13' 33"</p> <p>Close Star: SAO-28179 (Phecda) Catalog Objects: M-106, NGC 4248, 4217, 4232, 4331 Imaging Window: 08:50 – 01:27 Transit: 09:34 76°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 




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<p>M-106(NGC-4258) Config: C11-HD FR ZWO6200MC </p> <p>Type: Galaxy Group</p> <p>Constellation: Canes Venatici Coordinates: 12h 17' 12" 47° 13' 33"</p> <p>Close Star: SAO-28179 (Phecda) Catalog Objects: M-106, NGC 4248, 4217, 4232, 4331 Imaging Window: 08:50 – 01:27 Transit: 09:34 76°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="font-size: small;">M-106 galaxy group Constellation: Canes Venatici</p> <p style="font-size: x-small; text-align: right;">2024-03-29 James Wolfe Location: Sherbrooke, QC Config: C11 Starizona LF Corrector Astrograph DMC QHY135C Exposure Info: 3/Transitions - Gain: 3200 Offset: 180</p>
<p>HII Galaxy (M61/NGC4303) Config: C11HD ZWO6200MC </p> <p>Type: Face-On Spiral Galaxy</p> <p>Constellation: Virgo Coordinates: 12h 21' 55" 04° 31' 28"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-61/NGC-4303, NGC-4292, NGC-4301 Imaging Window: 08:50 – 12:08 Transit: 09:37 61°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Winnecke 4(M-40) Config: C11HD ZWO6200MC </p> <p>Type: Star Pair</p> <p>Constellation: Ursa Major Coordinates: 12h 21' 22" 58° 03' 05"</p> <p>Close Star: SAO-28179 (Phecda) Catalog Objects: M-40, NGC-4290, NGC-4284 Imaging Window: 08:50 – 01:27 Transit: 09:37 65°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

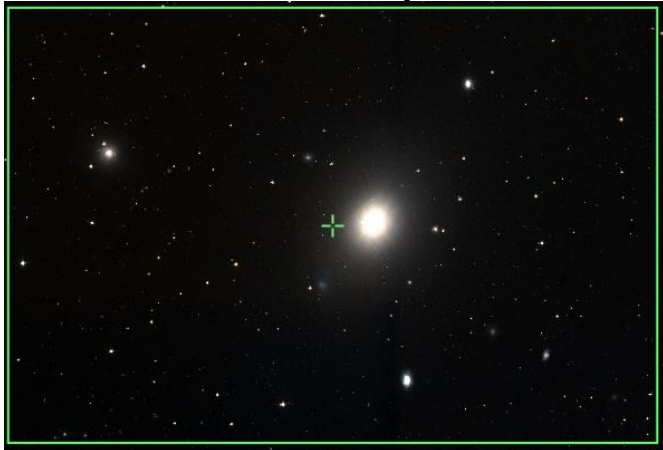
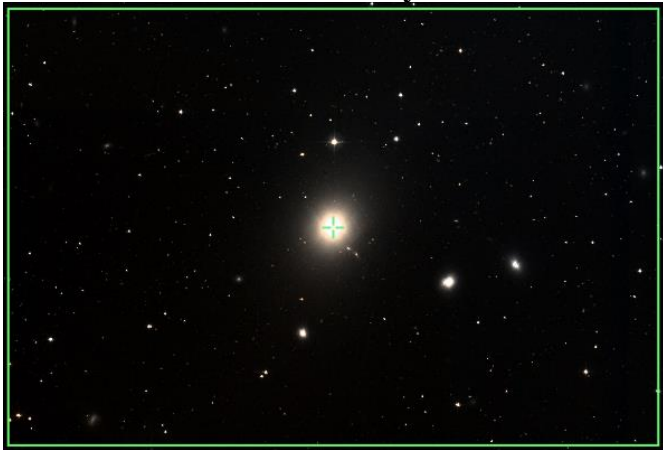

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<p>M-100(NGC-4303) Config: C11HD ZWO6200MC </p> <p>Type: Face-On Spiral Galaxy</p> <p>Constellation: Coma Berenices Coordinates: 12h 22' 28" 15° 42' 40"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-100/NGC-4321, NGC-4312, 4328, 4322, UGC-7425, IC-783A, Imaging Window: 08:50 – 12:45 Transit: 09:38 73°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-4361 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Corvus Coordinates: 12h 24' 31" -18° 47' 03"</p> <p>Close Star: SAO-157176 (Gienah Corvi) Catalog Objects: NGC-4361 Imaging Window: *08:50 – 11:46 Transit: 09:40 38°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Planetary Nebula NGC-6572 Constellation: Corvus Coordinates: RA=15h 24m 07.5s, DEC=-18d 47' 03.0" Star=21, 18-axis, Observation: 2024-05-07, PixelScale=0.27 arc/px, F1-DSLR</p> <p style="font-size: x-small;">Data: 2024-05-07 22:28:02.000 [Landscape, Clouds, 2024] Camera: C11 HD Primary Focus (Astrophotography, F1-DSLR) Software: 1.0.0.0 © 2024 James Yoder</p>
<p>Markarian Chain(M-84 Et. Et.) Config: C11-HD HS ZWO6200MC</p> <p>Type: Galaxy cluster</p> <p>Constellation: Virgo Coordinates: 12h 26' 29" 12° 52' 22"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-84/NGC-4374, NGC-4388, 4425, 4402, M-86/NGC4406, 4438, 4435, and more Imaging Window: 08:50 – 12:39 Transit: 09:40 70°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: x-small;">Markarian's Chain (of galaxies) © 2018 HyperStar, Photo, 8mm</p> <p style="font-size: x-small;">James Yoder 2018.05.15</p>




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<p>Markarian Chain 2 Config: C11-HD HS ZWO6200MC</p> <p>Type: Galaxy cluster Constellation: Virgo Coordinates: 12h 35' 40" 12° 33' 22"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-84/NGC-4374, NGC-4388, 4425, 4402, M-86/NGC4406, 4438, 4435, and more</p> <p>Imaging Window: 08:50 – 12:39 Transit: 09:40 70°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="text-align: center; font-size: small;">FOV 3.81 x 2.54° · RA 12hr 31' 35", DEC 13° 28' 16"</p>
<p>Markarian's Chain (M-84) Config: C11-HD FR ZWO6200MC </p> <p>Type: Galaxy cluster</p> <p>Constellation: Virgo Coordinates: 12h 26' 29" 12° 52' 22"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-84/NGC-4374, NGC-4388, 4425, 4402, M-86/NGC4406, 4438, 4435</p> <p>Imaging Window: 08:50 – 12:39 Transit: 09:40 70°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>NGC-4449 (UGC-7592) Config: C11HD ZWO6200MC </p> <p>Type: Irregular Galaxy</p> <p>Constellation: Canes Venatici Coordinates: 12h 28' 11" 44° 05' 42"</p> <p>Close Star: SAO-28553 (Alioth) Catalog Objects: NGC-4449/UGC-7592</p> <p>Imaging Window: 08:50 – 01:34 Transit: 09:43 79°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




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<p>M-49(NGC-4472) Config: C11HD ZWO6200MC </p> <p>Type: Elliptical Galaxy</p> <p>Constellation: Virgo Coordinates: 12h 29' 58" 07° 59' 51"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-49/NGC-4472 Imaging Window: 08:50 – 12:43 Transit: 09:46 65°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Virgo A(M-87) Config: C11HD ZWO6200MC </p> <p>Type: Elliptical Galaxy</p> <p>Constellation: Virgo Coordinates: 12h 30' 49" 12° 23' 26"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-87/NGC-4486 Imaging Window: 08:50 – 12:43 Transit: 09:46 69°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Cocoon Galaxy(NGC-4490) Config: C11HD ZWO6200MC </p> <p>Type: Interacting Galaxy Pair</p> <p>Constellation: Canes Venatici Coordinates: 12h 30' 36" 41° 38' 34"</p> <p>Close Star: SAO-28179 (Phecda) Catalog Objects: NGC-4490, NGC-4485 Imaging Window: 08:50 – 01:35 Transit: 09:46 82°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Cocoon Galaxy (NGC-4490 & NGC-4485) James Webb Dec01 2020 02:05 - 2024 02:07 Location: Chandler, AZ Config: C-11 HD Blender Skyline (GHY12k) Constellation: Canes Venatici Exposure Info: 750x300px (Gain: 3200) (Offset: 100) RA = 12h 30m 35.0s DEC = +41deg 38' 37.8" Size = 36.1 x 24.3 arcmin Orientation = -0.3Mag E of N Pixel scale = 0.446 arcsecond FL = 2770mm</p>


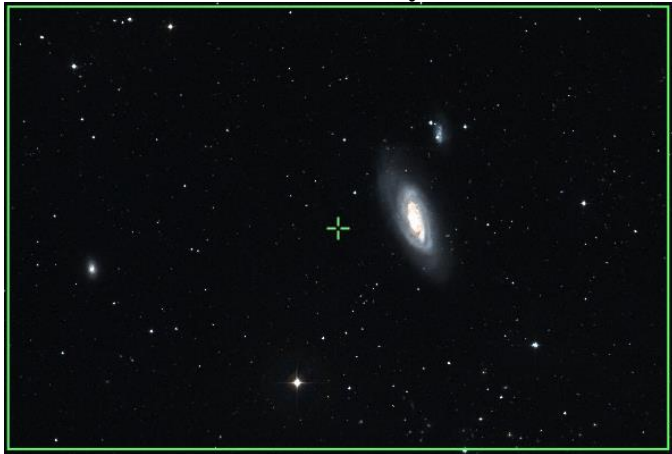

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<p>Lemon Slice Nebula (IC-3568) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Constellation: Camelopardalis Coordinates: 12h 33' 14" 82° 33' 22"</p> <p>Close Star: SAO-8102 (Kochab) Catalog Objects: IC-3568/UGC-7731</p> <p>Imaging Window: *08:50 – 02:43 Transit: 09:48 41°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small; text-align: center;">Planetary Nebula IC-3568 Constellation: Camelopardalis RA: 12h 33m 14.00s · DEC: 82° 33' 22.00" · Size: 12.0" x 11.0" · Filter: None · Date: 2024-03-29 08:50:00</p>
<p>M-91(NGC-4548) Config: C11-HD FR ZWO6200MC </p> <p>Type: Barred Spiral Galaxy</p> <p>Constellation: Coma Berenices Coordinates: 12h 36' 11" 14° 20' 51"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-91/NGC4548, NGC-4571 Imaging Window: 08:50 – 12:54 Transit: 09:50 71°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> <p style="text-align: center; color: green; font-weight: bold;">FOV 1.04 x 0.70° · RA 12hr 36' 11", DEC 14° 20' 51"</p> 
<p>M-91(NGC-4548) Config: C11HD ZWO6200MC </p> <p>Type: Barred Spiral Galaxy</p> <p>Constellation: Coma Berenices Coordinates: 12h 36' 04" 14° 23' 37"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-91/NGC4548, NGC-4571 Imaging Window: 08:50 – 12:54 Transit: 09:50 71°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




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<p>M-89(NGC-4552) Config: C11HD ZWO6200MC </p> <p>Type: Elliptical Galaxy</p> <p>Constellation: Virgo Coordinates: 12h 35' 43" 12° 24' 24"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-89/NGC4552, NGC-4551, NGC-4550, IC-3574, IC-3586 Imaging Window: 08:50 – 12:49 Transit: 09:51 69°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-4559 (UGC-7766) Config: C11HD ZWO6200MC </p> <p>Type: Barred Spiral Galaxy</p> <p>Constellation: Coma Berenices Coordinates: 12h 35' 58" 27° 57' 35"</p> <p>Close Star: SAO-44752 (Alkaid) Catalog Objects: NGC-4559/UGC-7766 Imaging Window: 08:50 – 01:23 Transit: 09:51 85°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Siamese Twins(NGC-4567) Config: C11HD ZWO6200MC </p> <p>Type: Elliptical Galaxy</p> <p>Constellation: Virgo Coordinates: 12h 36' 26" 11° 19' 59"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: NGC-4567, NGC-4568, NGC-4564 Imaging Window: 08:50 – 12:46 Transit: 09:52 68°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




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<p>Needle Galaxy (NGC-4565) Config: C11HD ZWO6200MC </p> <p>Type: Edge-on Galaxy</p> <p>Constellation: Coma Berenices Coordinates: 12h 36' 02" 25° 56' 51"</p> <p>Close Star: SAO-44752 (Alkaid) Catalog Objects: NGC-4565, NGC-4562 Imaging Window: 08:50 – 01:20 Transit: 09:51 83°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-90 (NGC-4569) Config: C11HD ZWO6200MC </p> <p>Type: Spiral Galaxy</p> <p>Constellation: Virgo Coordinates: 12h 37' 11" 13° 09' 19"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-90/NGC-4569 IC-3583, NGC-4584 Imaging Window: 08:50 – 12:51 Transit: 09:52 70°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Galaxy Group 58 Config: C-11HD HyperStar </p> <p>Type: Galaxy Group</p> <p>Constellation: Virgo Coordinates: 12h 37' 35" 12° 18' 56"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-58/NGC-4579 Imaging Window: 08:50 – 12:49 Transit: 09:53 69°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 


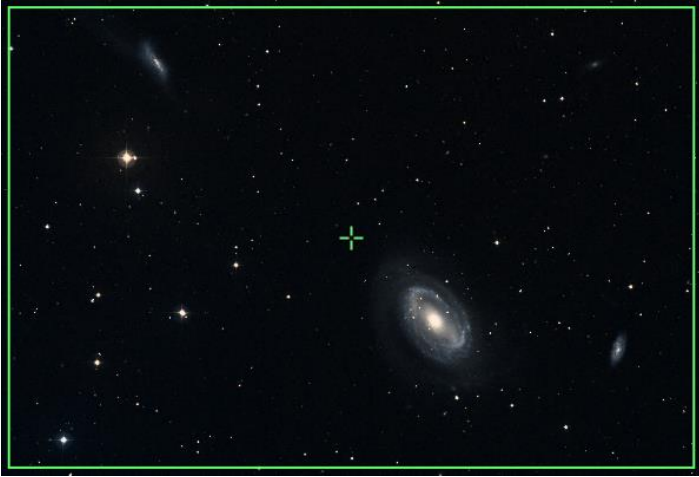
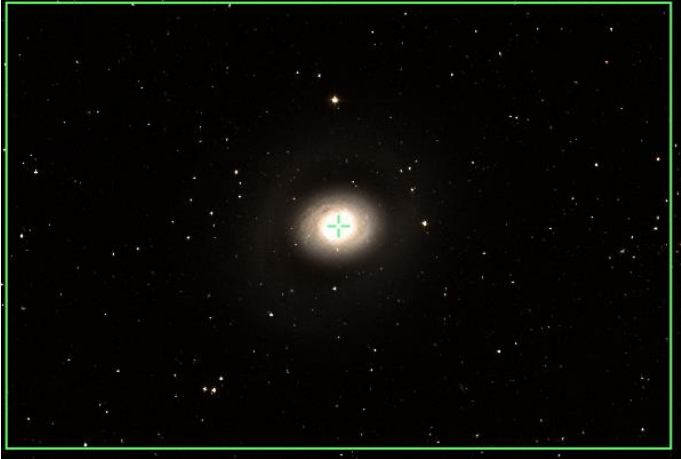
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<p>M-58 (NGC-4579) Config: C11HD ZWO6200MC </p> <p>Type: Barred Spiral Galaxy</p> <p>Constellation: Virgo Coordinates: 12h 37' 44" 11° 49' 06"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-58/NGC-4579 Imaging Window: 08:50 – 12:49 Transit: 09:53 69°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-68 (NGC-4590) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster Constellation: Hydra Coordinates: 12h 39' 28" -26° 44' 32"</p> <p>Close Star: SAO-180915 (Kraz) Catalog Objects: M-68/NGC-4590</p> <p>Imaging Window: *08:50 – 11:46 Transit: 09:54 30°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Sombrero Galaxy (M-104) Config: C11HD ZWO6200MC </p> <p>Type: Edge-on Spiral Galaxy</p> <p>Constellation: Virgo Coordinates: 12h 39' 44" -11° 37' 52"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-104/NGC-4594 Imaging Window: *08:50 – 12:40 Transit: 09:55 45°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 


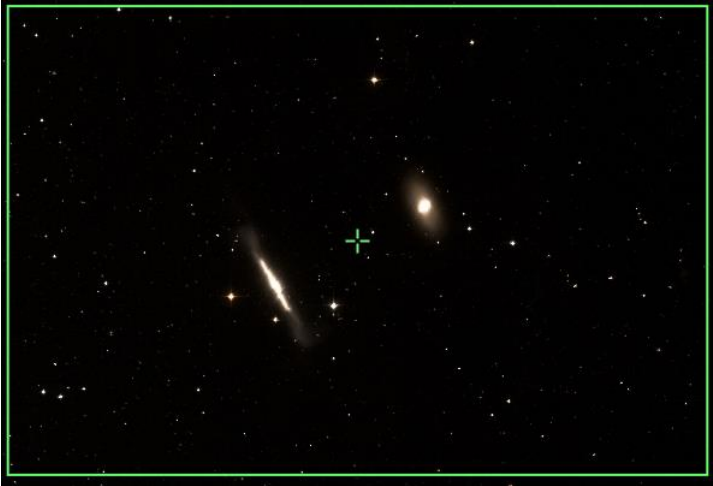
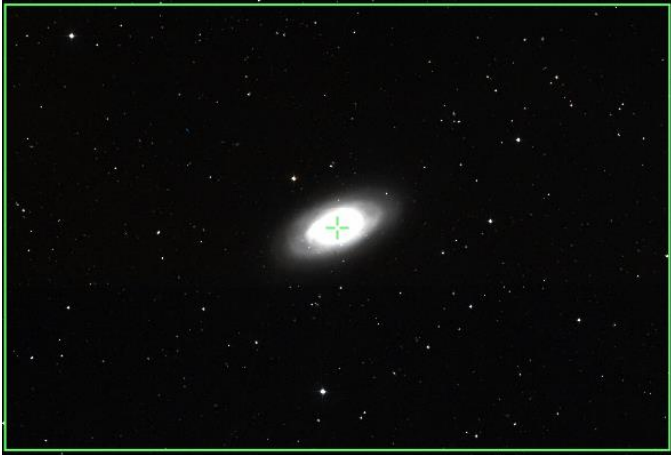
Prospective Imaging Objects – May 08 2024

<p>Whale and Hockey Stick (NGC-4631, NGC-4656) Config: C11-HD FR ZWO6200MC </p> <p>Type: Galaxies</p> <p>Constellation: Canes Venatici Coordinates: 12h 42' 50" 32° 20' 54"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: NGC-4631, NGC-4656 Imaging Window: 08:50 – 01:36 Transit: 09:57 89°</p>	<p style="text-align: right;">C-11 HD: Focal Reducer</p>  <p style="font-size: small;">Whale and Hockey Stick Galaxies (NGC4631, NGC4656) Constellation: Canes Venatici</p> <p style="font-size: x-small; text-align: right;">James Yoder 2023/04/04 Location: Mountain View, AZ Config: C11 Starizona L.F. Converter Bando Skyglow Filter H111216 Exposure Info: 21.8min/Frame Gain: 3200 D854 101</p>
<p>M-59, M-60 group Config: C11-HD FR ZWO6200MC </p> <p>Type: Galaxy Group</p> <p>Constellation: Virgo Coordinates: 12h 42' 42" 11° 40' 33"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: M-59/NGC-4621, M-60/NGC-4649, NGC-4656, 4647, 4638, 4607, 4606 Imaging Window: 08:50 – 12:52 Transit: 09:57 68°</p>	<p style="text-align: right;">C-11 HD: Focal Reducer</p>  <p style="font-size: small;">Virgo Cluster of Galaxies Constellation: Virgo the virgin</p> <p style="font-size: x-small; text-align: right;">James Yoder Date(s) 2023/04/30 - 2023/05/16 Location: Chandler, AZ Config: C11-HD 0.7 Reducer Filter: Bando Skyglow, RGB Camera: ZWO ASI-6200 Exposure Info: L=84min/Frame, G=136min/Frame, R=128min/Frame, B=146min/Frame Total = 12hrs 18min Gain: 100 Offset: 50 RA = 12h 42m 40.5s, DEC = +11deg 40' 19.7" Size = 57.3 x 37.7 arcmin Orientation = -0.2deg E of N Pixel scale = 0.785 arcsec/pixel F1 = 1900mm</p>
<p>TheMice (NGC-4676 A & B) Config: C11HD ZWO6200MC </p> <p>Type: Interacting Galaxies</p> <p>Constellation: Coma Berenices Coordinates: 12h 46' 07" 30° 43' 43"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: NGC-4676A & B Imaging Window: 08:50 – 01:38 Transit: 10:01 87°</p>	<p style="text-align: right;">C-11 HD: Primary Focus</p> 

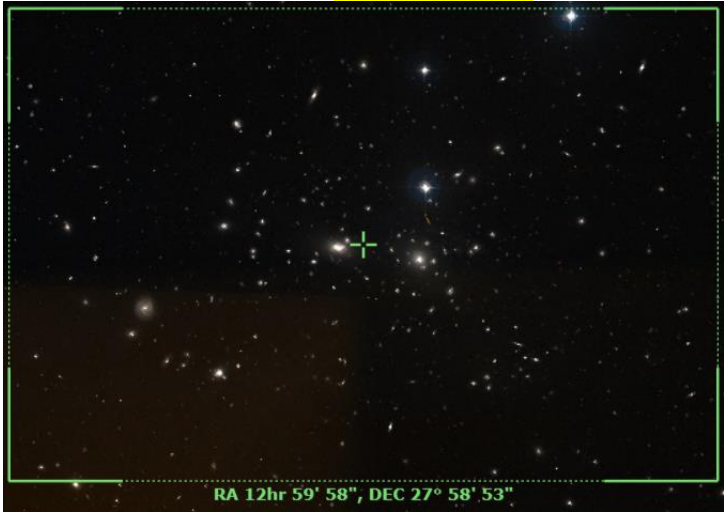


Prospective Imaging Objects – May 08 2024

<p>NGC-4725 (PGC-43451) Config: C11-HD FR ZWO6200MC </p> <p>Type: Galaxy group</p> <p>Constellation: Coma Berenices Coordinates: 12h 50' 55" 25° 35' 59"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: NGC-4725, NGC-4712, NGC-4747 Imaging Window: 08:50 – 01:33 Transit: 10:05 82°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="font-size: small;">Galaxy Cluster NGC-4747, NGC-4725, NGC4712 Constellation: Coma Berenices <small>James Yoder Date(s) 2021.01.02, 2021.01.03 Location: Chandler, AZ Config: C11-HD F. Reducer Filter: Baader Skyglow Camera: QHY120C Exposure Info: [66frames] 3min Gain: 3200 QHYSet: 180 [RA = 12h 50m 40.89s DEC = -25deg 36' 33.3"] Size = 44.39 x 29.62 arcmin Orientation: Mag. E. of N Print scale = 0.630 arcsec/pixel FL = 1953mm</small></p>
<p>NGC-4725 (PGC-43451) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy group</p> <p>Constellation: Coma Berenices Coordinates: 12h 50' 50" 25° 35' 23"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: NGC-4725, NGC-4712, NGC-4747 Imaging Window: 08:50 – 01:33 Transit: 10:05 82°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-94 (NGC-4736) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Canes Venatici Coordinates: 12h 50' 53" 41° 07' 17"</p> <p>Close Star: SAO-28553 (Alioth) Catalog Objects: M-94/NGC-4736 Imaging Window: 08:50 – 01:55 Transit: 10:06 82°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – May 08 2024

<p>NGC-4731 (PGC-43507) Config: C11HD ZWO6200MC </p> <p>Type: Barred Spiral Galaxy</p> <p>Constellation: Virgo Coordinates: 12h 51' 01" -06° 21' 49"</p> <p>Close Star: SAO-157923 (Spica) Catalog Objects: NGC-4731 Imaging Window: *08:50 – 01:19 Transit: 10:06 50°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-4762, 4754 (PGC-43733) Config: C11HD ZWO6200MC </p> <p>Type: Edge on Galaxy</p> <p>Constellation: Virgo Coordinates: 12h 52' 35" 11° 16' 42"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: NGC-4762, NGC-4754 Imaging Window: 08:50 – 01:02 Transit: 10:08 68°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Black Eye Galaxy (M-64) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Coma Berenices Coordinates: 12h 56' 44" 21° 40' 59"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: M-64/NGC-4826 Imaging Window: 08:55 – 01:32 Transit: 10:12 78°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – May 08 2024

<p>Coma Galaxy Cluster (Abell-1656) Config: C11-HD FR ZWO6200MC </p> <p>Type: Galaxy Cluster</p> <p>Constellation: Coma Berenices Coordinates: 12h 59' 58" 27° 58' 53"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: Abell-1656 Imaging Window: 08:50 – 01:47 Transit: 10:15 85°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="text-align: center;">RA 12hr 59' 58", DEC 27° 58' 53"</p>
<p>Coma Galaxy Cluster (Abell-1656) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Cluster</p> <p>Constellation: Coma Berenices Coordinates: 13h 00' 06" 28° 00' 31"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: Abell-1656 Imaging Window: 08:50 – 01:47 Transit: 10:15 85°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;">Galaxy Cluster Abell-1656 Constellation: Coma Berenices</p>
<p>M-53 (NGC-5024) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster Constellation: Coma Berenices Coordinates: 13h 12' 55" 18° 10' 11"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: M-53/NGC-5024</p> <p>Imaging Window: 08:50 – 01:40 Transit: 10:28 75°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;">Globular Cluster Messier 53 Constellation: Coma Berenices</p>




Prospective Imaging Objects – May 08 2024

<p>NGC-5033 (PGC-45948) Config: C11HD ZWO6200MC </p> <p>Type: Spiral Galaxy</p> <p>Constellation: Canes Venatici Coordinates: 13h 13' 28" 36° 35' 36"</p> <p>Close Star: SAO-28553 (Alioth) Catalog Objects: NGC-5033/PGC-45948 Imaging Window: 08:50 – 02:13 Transit: 10:28 87°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Sunflower Galaxy (M-63) Config: C11HD ZWO6200MC </p> <p>Type: Spiral Galaxy</p> <p>Constellation: Canes Venatici Coordinates: 13h 15' 15" 42° 04' 41"</p> <p>Close Star: SAO-28553 (Alioth) Catalog Objects: M-63/NGC-5055, UGC-8313 Imaging Window: 08:50 – 02:20 Transit: 10:31 81°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-5053 Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Coma Berenices Coordinates: 13h 16' 27" 17° 41' 55"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: NGC-5053 Imaging Window: 08:50 – 01:43 Transit: 10:31 74°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – May 08 2024

<p>Whirlpool Galaxy (M-51) Config: C11HD ZWO6200MC </p> <p>Type: Interacting Galaxies</p> <p>Constellation: Canes Venatici Coordinates: 13h 29' 53" 47° 11' 44"</p> <p>Close Star: SAO-28553 (Alioth) Catalog Objects: M-51/NGC-5194, NGC-5195 Imaging Window: 08:50 – 02:38 Transit: 10:45 76°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-3 (NGC-5272) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster Constellation: Canes Venatici Coordinates: 13h 42' 11" 28° 22' 34"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-3/NGC-5272</p> <p>Imaging Window: 08:50 – 02:30 Transit: 10:57 85°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Heron Galaxy (NGC-5395) et el. Config: C11HD ZWO6200MC </p> <p>Type: Galaxies</p> <p>Constellation: Canes Venatici Coordinates: 13h 57' 46" 37° 35' 31"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: NGC-5395, NGC-5394, NGC-5380, NGC-5378 Imaging Window: 08:50 – 02:59 Transit: 11:13 86°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – May 08 2024

<p>Pinwheel Galaxy (M-101) Config: C11HD ZWO6200MC </p> <p>Type: Face-on Spiral Galaxy</p> <p>Constellation: Ursa Major Coordinates: 14h 03' 54" 54° 22' 44"</p> <p>Close Star: SAO-28553 (Alioth) Catalog Objects: M-101/NGC-5457, NGC-5477 Imaging Window: 08:50 – 03:59 Transit: 11:18 69°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;"><small>M-101 (Pinwheel Galaxy) with Saferona Coordinates: RA=14h 03m 54.2s, DEC=54° 22' 44.0"</small></p>
<p>NGC-5466 Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster Constellation: Bootes Coordinates: 14h 05' 27" 28° 32' 06"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: NGC-5466</p> <p>Imaging Window: 08:50 – 02:54 Transit: 11:20 85°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;"><small>Globular Cluster NGC-5466 Coordinates: RA=14h 05m 27.0s, DEC=28° 32' 06.0"</small></p>
<p>Spindle Galaxy (M-102) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Draco Coordinates: 15h 06' 29" 55° 45' 49"</p> <p>Close Star: SAO-28553 (Alioth) Catalog Objects: M-102 Imaging Window: 08:50 – 03:59 Transit: 12:21 69°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;"><small>Spindle Galaxy (M-102/NGC-5866) Constellation: Spindle Galaxy in Draco [RA = 15h 06m 32.9s, DEC = 55deg 46' 21.7"] Size = 36.8 x 28.8 pixels (Orientation: 375deg E of N) Pixel scale = 0.666 arcsec/pixel (F1-2000mm)</small></p> <p style="text-align: center;"><small>James Webb (Date: 2024-07-21) Location: Canada, AZ Config: C-11 HD Blander Skyline Filter (QHY172M) Exposure Info: 448img/2min, Gain: 5200 (187e) 180</small></p>

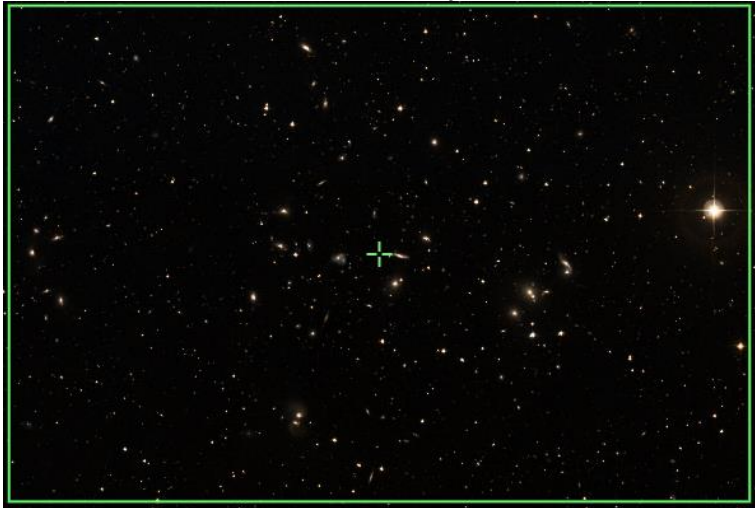
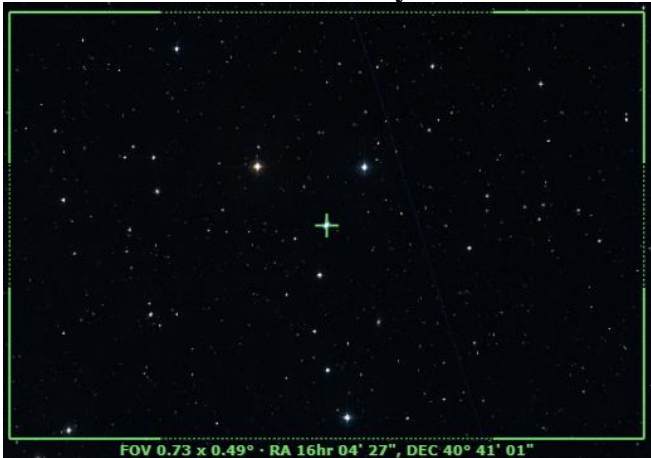

Prospective Imaging Objects – May 08 2024

<p>NGC-5905, 5908 Config: C11HD ZWO6200MC </p> <p>Type: Galaxies</p> <p>Constellation: Drao Coordinates: 15h 16' 07" 55° 28' 10"</p> <p>Close Star: SAO-28737 (Mizar) Catalog Objects: NGC-5905, 5908 Imaging Window: 08:50 – 03:59 Transit: 12:30 68°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Galaxies NGC-5905, NGC-5908 Constellation: Draco the dragon RA = 15h 15m 35.6s, DEC = +55deg 29' 00" Size = 29.75 x 19.8 arcmin Pixel scale = 0.446 arcsec/pixel</p> <p style="font-size: x-small; text-align: right;">James Yoder Location: Chandler, AZ 2020-05-01 Config: C-11 HD Baader Skyglow Filter QHY128c Exposure info: 360ms@5min Gain: 3200 Offset: 180</p>
<p>Splinter Galaxy (NGC-5907) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Drao Coordinates: 15h 15' 54" 56° 19' 49"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: NGC-5907 Imaging Window: 08:50 – 03:59 Transit: 12:30 68°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Splinter Galaxy (NGC-5907) Constellation: Drao</p> <p style="font-size: x-small; text-align: right;">James Yoder Location: Chandler, AZ 2020-05-01 Config: C-11 HD Baader Skyglow Filter QHY128c Exposure info: 360ms@5min Gain: 3200 Offset: 180</p>
<p>M-5 (NGC-5904) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Serpens Coordinates: 15h 18' 34" 02° 05' 00"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-5/NGC-5904 Imaging Window: 10:18 – 03:59 Transit: 12:33 59°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">M-005 Globular Cluster in Serpens</p> <p style="font-size: x-small; text-align: right;">James Yoder 2017.01.25</p>




Prospective Imaging Objects – May 08 2024

<p>Draco Trio (NGC-5985,5982,5981) Config: C11HD ZWO6200MC </p> <p>Type: Galaxies</p> <p>Constellation: Drao Coordinates: 15h 38' 20" 59° 22' 56"</p> <p>Close Star: SAO-28737 (Mizar) Catalog Objects: NGC-5985, NGC-5982, NGC-5981 Imaging Window: 09:12 – 03:59 Transit: 12:54 64°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">NGC-5981, NGC-5982, NGC5985 Galaxy Cluster in Drao C-11, 1600iso, 70min James Yoder 2018.05.08</p>
<p>Sharpless 2-1 (SH2-1) Config: C11-HD HS ZWO6200MC</p> <p>Type: Diffuse Nebula</p> <p>Constellation: Scorpius Coordinates: 15h 56' 09" -25° 40' 29"</p> <p>Close Star: SAO-208078 (Wei) Catalog Objects: SH2-1/LBN-1093</p> <p>Imaging Window: *11:28 – 03:10 Transit: 01:13 31°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>Seyfert's Sextet (NGC-6027A-E) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Group & One</p> <p>Constellation: Serpens Coordinates: 15h 59' 46" 20° 47' 27"</p> <p>Close Star: SAO-83893 Catalog Objects: NGC-6027A-E, UGC-10127 Imaging Window: 10:01 – 03:59 Transit: 01:14 77°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">NGC-6027 (Seyfert's Sextet) Constellation: Serpens James Yoder Drao 2014-05-20-2017-08 Location: Chino Hills, CA C-11 HD 1600iso 100min 2018.05.08</p>

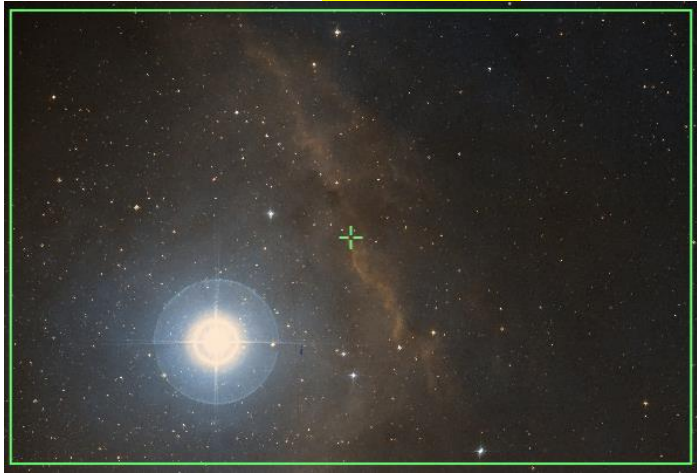


Prospective Imaging Objects – May 08 2024

<p>Hercules Galaxy Cluster (Abell-2151) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Cluster</p> <p>Constellation: Hercules Coordinates: 16h 05' 13" 17° 45' 39"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: Abell-2151</p> <p>Imaging Window: 10:14 – 03:59 Transit: 01:20 74°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-6058 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Hercules Coordinates: 16h 04' 27" 40° 41' 01"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: NGC-6058</p> <p>Imaging Window: 09:37 – 03:59 Transit: 01:19 83°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Tadpole Galaxy (Arp-188) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Draco Coordinates: 16h 06' 04" 55° 26' 07"</p> <p>Close Star: SAO-28737 (Mizar) Catalog Objects: Arp-188, PGC-57087, 57114, 57108</p> <p>Imaging Window: 09:34 – 03:59 Transit: 01:20 68°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – May 08 2024

<p>White Eyed Pea (IC-4593) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Hercules Coordinates: 15h 11' 45" 12° 03' 45"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: IC-4593 Imaging Window: 10:36 – 03:59 Transit: 01:26 69°</p>	<p>C-11 HD: Primary Focus</p>  <p><small>White Eyed Pea Nebula (IC-4593) Constellation: Hercules RA: 15h 11m 45s, DEC: 12° 03' 45" (May 17 19 91) Size: 3.45deg x 2.5deg Orientation: 6.8deg E of N (Polar scale = 0.597 arcseconds) (L1=020min)</small></p> <p><small>James Van Der Meer (2023-04-05 - 2023-04-06) Location: Chandler, AZ Config: C-11 HD (HyperStar V4) Shaded HyperStar Filter (OHY1256) Exposure Info: 200img/Star, Gain: 1200 (OHSE: 180)</small></p>
<p>Blue Horshead (IC-4592) Config: C11-HD HS ZWO6200MC</p> <p>Type: Bright Nebula</p> <p>Constellation: Scorpius Coordinates: 16h 14' 15" -19° 17' 16"</p> <p>Close Star: SAO-184415 (Antares) Catalog Objects: IC-4592</p> <p>Imaging Window: *10:49 – 03:59 Transit: 01:27 37°</p>	<p>C-11 HD: HyperStar v4</p>  <p><small>Blue Horse Nebula (IC-4592) Constellation: Scorpius RA: 16h 14m 15s, DEC: -19° 17' 16" (May 17 19 91) Size: 3.45deg x 2.5deg Orientation: 1.76deg E of N (Polar scale = 0.597 arcseconds) (L1=020min)</small></p> <p><small>James Van Der Meer (2023-03-21) Location: Mountain View, Tualatin, AZ Config: C-11 HD (HyperStar V4) Shaded HyperStar Filter (OHY1256) Exposure Info: 200img/Star, Gain: 1200 (OHSE: 180)</small></p>
<p>M-80 (NGC-6093) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Scorpius Coordinates: 16h 17' 02" -22° 58' 28"</p> <p>Close Star: SAO-184415 (Antares) Catalog Objects: M-80/NGC-6093 Imaging Window: *11:18 – 03:49 Transit: 01:31 34°</p>	<p>C-11 HD: Primary Focus</p>  <p><small>Globular Cluster M-80 Constellation: Scorpius RA: 16h 17m 02s, DEC: -22° 58' 28" (May 17 19 91) Size: 3.7 x 2.7 Arcseconds Orientation: 6.8deg E of N (Polar scale = 0.597 arcseconds) (L1=020min)</small></p> <p><small>James Van Der Meer (2023-04-05 - 2023-04-06) Location: Chandler, AZ Config: C-11 HD Shaded HyperStar Filter (OHY1256) Exposure Info: 200img/Star, Gain: 1200 (OHSE: 180)</small></p>




Prospective Imaging Objects – May 08 2024

<p>SH2-9 Config: C11-HD FR ZWO6200MC </p> <p>Type: Diffuse Nebula</p> <p>Constellation: Scorpius Coordinates: 16h 20' 16" -25° 25' 53"</p> <p>Close Star: SAO-184415 (Antares) Catalog Objects: SH2-9 Imaging Window: 11:46 – 03:32 Transit: 01:36 31°</p>	<p>C-11 HD: Focal Reducer</p> 
<p>M-4 (NGC-6121) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Scorpius Coordinates: 16h 23' 35" -26° 31' 29"</p> <p>Close Star: SAO-184415 (Antares) Catalog Objects: M-4/NGC-6121 Imaging Window: *11:56 – 03:27 Transit: 01:38 30°</p>	<p>C-11 HD: Primary Focus</p>  <p><small>Globular Cluster Messier 4 Constellation: Scorpius RA = 16h 23m 35.00s, DEC = -26deg 31' 29.41", Size = 17.8 x 27.0 arcmin, Orientation: 0 deg E of N, (Pixel scale = 0.452 arcsec/pixel) (F1-1773mm) James Yoder (Dawco) 2022-04-21 - 2022-04-29, Location: Chandler, AZ Config: C-11 HD Double Ringlite Filter (D75120a) Exposure: 100 (3150sec) @ Gain: 1200 (Offset: 100)</small></p>
<p>Ophiuchus Complex (IC-4604) Config: C11-HD HS ZWO6200MC Composite with M-4 Type: Bright Nebula Constellation: Scorpius Coordinates: Frame 01 RA: 16hr 26' 46" DEC: -24° 08' 13" Frame 02 RA: 16hr 26' 46" DEC: -26° 14' 42"</p> <p>Close Star: SAO-184415 (Antares) Catalog Objects: IC-4604</p> <p>Imaging Window: *11:28 – 03:55 Transit: 01:40 33°</p>	<p>C-11 HD: HyperStar v4 Composite!</p>  <p><small>Ophiuchus Complex Region Constellation: Ophiuchus and Scorpius RA = 16h 26m 46.00s, DEC = -24deg 08' 13.00", Size = 17.8 x 27.0 arcmin, Orientation: 0 deg E of N, (Pixel scale = 0.452 arcsec/pixel) (F1-1773mm) James Yoder (Dawco) 2022-04-21 - 2022-04-29, Location: Chandler, AZ Config: C-11 HD Double Ringlite Filter (D75120a) Exposure: 100 (3150sec) @ Gain: 1200 (Offset: 100)</small></p>

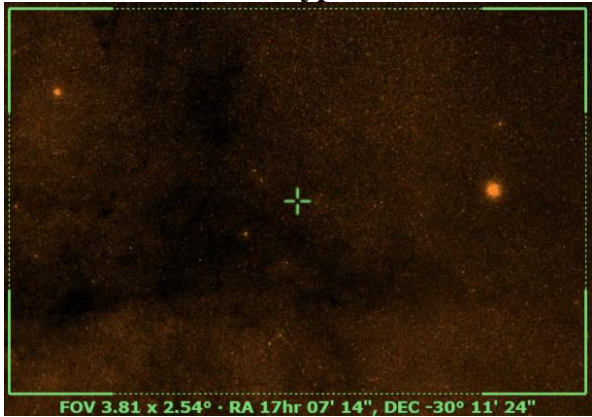
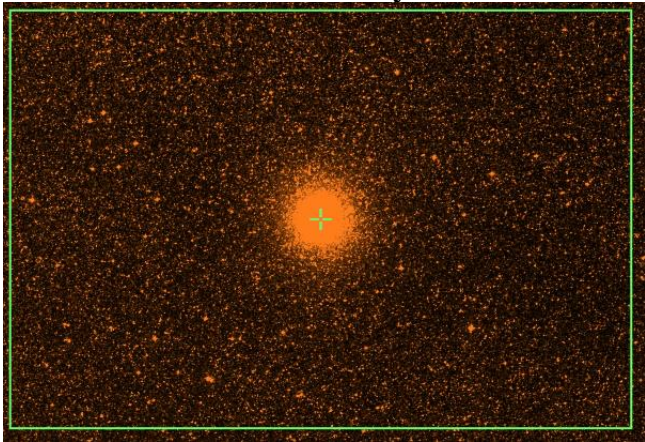

Prospective Imaging Objects – May 08 2024

<p>Abell-39 (PK 47+42.1) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Hercules Coordinates: 16h 27' 34" 27° 54' 29"</p> <p>Close Star: SAO-84951 (Sarin) Catalog Objects: Abell-39/PK 47+42.1 Imaging Window: 10:16 – 3:59 Transit: 01:42 84°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small; text-align: center;">Planetary Nebula Abell-39 Constellation: Hercules RA = 16h 27m 32.8s DEC = 27deg 54' 19.9" Size = 38 x 26 arcmin Orientation: 8deg E of N Field scale = 0.446 arcsec/pix F1 - 2000mm James VanDer Meer 2023 05 01 Location: Mountain View, CA Config: C-11 HD No Filter (QHY12K) Exposure: 100ms/Frame Gain: 3200 Offset: 100</p>
<p>M-107 (NGC-6171) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Ophiuchus Coordinates: 16h 32' 32" -13° 03' 11"</p> <p>Close Star: SAO-160006 (zeta Ophi) Catalog Objects: M-107/NGC-6171 Imaging Window: *11:07 – 03:59 Transit: 01:47 44°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Hercules Cluster(M-13) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Hercules Coordinates: 16h 41' 41" 36° 27' 39"</p> <p>Close Star: SAO-067174 (Vega) Catalog Objects: M-13/NGC-6205 Imaging Window: 10:18 – 03:59 Transit: 01:56 87°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small; text-align: center;">Great Hercules Cluster M-13 (NGC-6205) Constellation: Hercules RA = 16h 41m 41.0s DEC = 36deg 27' 39.4" Image Size = 41 x 36.1 arcmin Field scale = 0.445 arcsec/pix James VanDer Meer 2023 05 01 Location: Mountain View, CA Config: C-11 HD No Filter (QHY12K) F1 - 2000 Exposure: 100ms/Frame Gain: 3200 Offset: 100</p>

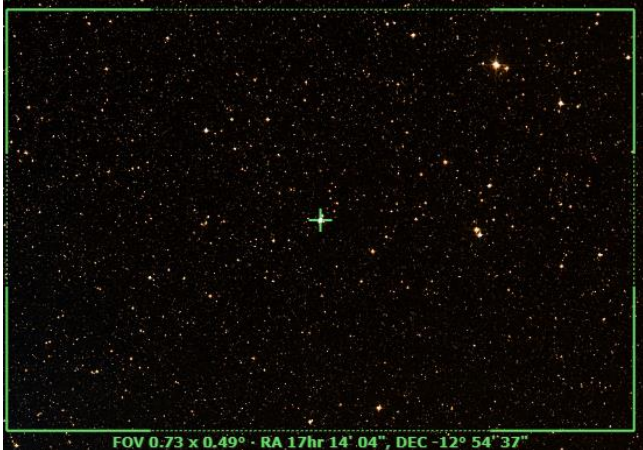


Prospective Imaging Objects – May 08 2024

<p>Turtle Nebula (NGC-6210) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Hercules Coordinates: 16h 44' 29" 23° 48' 02"</p> <p>Close Star: SAO-84411 (Kornephoros) Catalog Objects: NGC-6210 Imaging Window: 10:40 – 03:59 Transit: 01:59 80°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Planetary Nebula NGC-6210 Constellation: Hercules Coordinates: RA = 16h 44m 29.00s DEC = 23d 48' 02.00" Size = 27.50 arcmin Orientation: 98deg E of N. Pixel scale = 0.27 arcsec/pixel FL = 2000mm Jovan Yoder Date(s): 2023/04/21 - 2023/04/21 Location: Chandler, AZ Config: C-11 HD ZWO6200MC Exposure Info: 41 frames/2min - Gain: 3200 - Offset: 100</p>
<p>M-12(NGC-6218) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Ophiuchus Coordinates: 16h 47' 15" -01° 56' 50"</p> <p>Close Star: SAO-160006 (zeta Ophi) Catalog Objects: M-12/NGC-6218 Imaging Window: 12:07 – 03:59 Transit: 02:02 55°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Globular Cluster Messier 12 Constellation: Ophiuchus Coordinates: RA = 16h 47m 15.00s DEC = -01d 56' 50.00" Size = 17.7 x 27.0 arcmin Orientation: 0 deg E of N. Pixel scale = 0.432 arcsec/pixel FL = 2720mm Jovan Yoder Date(s): 2023/04/21 - 2023/04/21 Location: Chandler, AZ Config: C-11 HD ZWO6200MC Exposure Info: 41 frames/2min - Gain: 3200 - Offset: 100</p>
<p>M-10(NGC-6254) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Ophiuchus Coordinates: 16h 57' 09" -04° 05' 56"</p> <p>Close Star: SAO-160006 (zeta Ophi) Catalog Objects: M-10/NGC-6254 Imaging Window: 12:30 – 03:59 Transit: 02:11 53°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Globular Cluster Messier 10 Constellation: Ophiuchus Coordinates: RA = 16h 57m 09.00s DEC = -04d 05' 56.00" Size = 15.7 x 27.0 arcmin Orientation: 0 deg E of N. Pixel scale = 0.432 arcsec/pixel FL = 2720mm Jovan Yoder Date(s): 2023/04/21 - 2023/04/21 Location: Chandler, AZ Config: C-11 HD ZWO6200MC Exposure Info: 41 frames/2min - Gain: 3200 - Offset: 100</p>


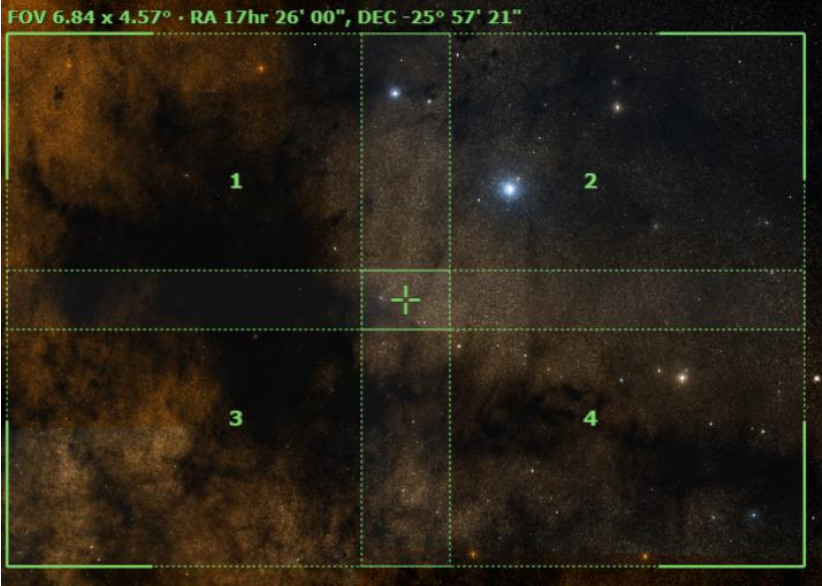
Prospective Imaging Objects – May 08 2024

<p>M-62 Region (NGC-6266) Config: C11-HD HS ZWO6200MC</p> <p>Type: Globular Cluster</p> <p>Constellation: Ophiuchus Coordinates: 16h 25' 36" -23° 27' 00"</p> <p>Close Star: SAO-160006 (zeta Ophi) Catalog Objects: M-62/NGC-6266 Imaging Window: *01:19 – 03:22 Transit: 02:15 33°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>M-62(NGC-6266) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Ophiuchus Coordinates: 17h 01' 13" -30° 06' 42"</p> <p>Close Star: SAO-160006 (zeta Ophi) Catalog Objects: M-62/NGC-6266 Imaging Window: *01:19 – 03:22 Transit: 02:15 33°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-19(NGC-6273) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Ophiuchus Coordinates: 17h 02' 38" -26° 16' 03"</p> <p>Close Star: SAO-160006 (zeta Ophi) Catalog Objects: M-19/NGC-6273 Imaging Window: *12:34 – 03:59 Transit: 02:17 30°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – May 08 2024

<p>Box Nebula (NGC-6309) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Hercules Coordinates: 17h 14' 04" -12° 54' 37"</p> <p>Close Star: SAO-160332 (Sabik) Catalog Objects: NGC-6309 Imaging Window: *11:51 – 03:59 Transit: 02:28 44°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-92(NGC-6341) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Hercules Coordinates: 17h 17' 07" 43° 08' 13"</p> <p>Close Star: SAO-067174 (Vega) Catalog Objects: M-92/NGC-6341 Imaging Window: 10:47 – 03:59 Transit: 02:31 80°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-9(NGC-6333) Config: C11-HD FR ZWO6200MC </p> <p>Type: Glob Cluster & DNeB</p> <p>Constellation: Ophiuchus Coordinates: 17h 18' 24" -18° 34' 58"</p> <p>Close Star: SAO-160006 (zeta Ophi) Catalog Objects: M-9/NGC-6333 Imaging Window: *12:30 – 03:59 Transit: 02:33 38°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 




Prospective Imaging Objects – May 08 2024

<p>M-9(NGC-6333) Config: C11HD ZWO6200MC </p> <p>Type: Glob Cluster & DNeB</p> <p>Constellation: Ophiuchus Coordinates: 17h 19' 12" -18° 30' 57"</p> <p>Close Star: SAO-160006 (zeta Ophi) Catalog Objects: M-9/NGC-6333 Imaging Window: *12:30 – 03:59 Transit: 02:33 38°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;"> Globular Cluster Messier 9 Constellation: Ophiuchus RA = 17h 19m 11.5s, DEC = -18deg 31' 43.9", Size = 17.3 x 26.3 arcmin, Observation: 9 May, E of N, Pixel scale = 0.412 arcsecond, FL=2725mm James VanDer (Dates: 2023/04/21 - 2023/04/21, Location: Chandler, AZ) Config: C-11 HD Black Magic Filter: 000 Duo Exposure Info: 1000/20000, Gain: 200, @f/8.0 </p>
<p>Dark Horse Nebula (LDN 42) Config: C11-HD HS ZWO6200MC</p> <p>Type: Dark Nebula</p> <p>Constellation: Ophiuchus Frame 01 RA: 17hr 32' 42" DEC: -24° 55' 48" Frame 02 RA: 17hr 19' 18" DEC: -24° 55' 48" Frame 03 RA: 17hr 32' 49" DEC: -26° 57' 43" Frame 04 RA: 17hr 19' 11" DEC: -26° 57' 43"</p> <p>Close Star: SAO-184415 (Antares)</p> <p>Catalog Objects: LDN-42 Imaging Window: *12:58 – 03:59 Transit: 02:46 31°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4 Composite!</p>  <p style="font-size: small; color: green;">FOV 6.84 x 4.57° · RA 17hr 26' 00", DEC -25° 57' 21"</p>




Prospective Imaging Objects – May 08 2024

<p>Pipe Nebula (LDN 1773) Config: C11-HD HS ZWO6200MC</p> <p>Type: Dark Nebula</p> <p>Constellation: Ophiuchus Coordinates: 17h 19' 54" -26° 52' 60"</p> <p>Close Star: SAO-184415 (Antares)</p> <p>Catalog Objects: LDN-1773 Imaging Window: *12:58 – 03:59 Transit: 02:34 30°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">Pipe Nebula in Ophiuchus C-11 HyperStar, 1400iso, 42min</p> <p style="font-size: x-small; text-align: right;">James Yellier 2018-05-15</p>
<p>Pipe Nebula (LDN 1773) Config: C11-HD FR ZWO6200MC </p> <p>Type: Dark Nebula</p> <p>Constellation: Ophiuchus Coordinates: 17h 20' 10" -26° 50' 18"</p> <p>Close Star: SAO-184415 (Antares)</p> <p>Catalog Objects: LDN-1773 Imaging Window: *12:58 – 03:59 Transit: 02:34 30°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="font-size: x-small; color: green;">FOV 1.1 x 0.7" RA 17hr 20' 10" DEC -26° 50' 18"</p>
<p>The Snake Nebula (B-72) Config: C11-HD HS ZWO6200MC</p> <p>Type: Dark Nebula</p> <p>Constellation: Ophiuchus Coordinates: 17h 25' 49" -23° 58' 05"</p> <p>Close Star: SAO-160006 (zeta Ophi) Catalog Objects: B-72/LDN-66 Imaging Window: *12:30 – 03:59 Transit: 02:38 33°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 




Prospective Imaging Objects – May 08 2024

<p>The Snake Nebula (B-72) Config: C11-HD FR ZWO6200MC </p> <p>Type: Dark Nebula</p> <p>Constellation: Ophiuchus Coordinates: 17h 24' 19" -23° 39' 06"</p> <p>Close Star: SAO-160006 (zeta Ophi) Catalog Objects: B-72/LDN-66 Imaging Window: *12:30 – 03:59 Transit: 02:38 33°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="font-size: small;">The Snake Nebula Constellation: Ophiuchus RA = 17h 24m 19s DEC = -23deg 39' 06" (J2000.0) Field scale = 0.379 arcsecond Jason Volder (2023/04/27) Location: Starbuck Ground Station Config: C-11 HD HD Filter: 12577nm Exposure: 60s (200mag/Star-Cam-200-000Sec-180)</p>
<p>Barnard 75 (B-75) Config: C11-HD FR ZWO6200MC </p> <p>Type: Dark Nebula</p> <p>Constellation: Ophiuchus Coordinates: 17h 25' 22" -22° 04' 05"</p> <p>Close Star: SAO-184415 (Antares) Catalog Objects: B-75/LDN-112 Imaging Window: *12:19 – 03:59 Transit: 02:39 35°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="font-size: small;">FOV 1.04 x 0.70" · RA 17hr 25' 22", DEC -22° 04' 05"</p>
<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: *12:34 – 03:59 Transit: 02:44 33°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 


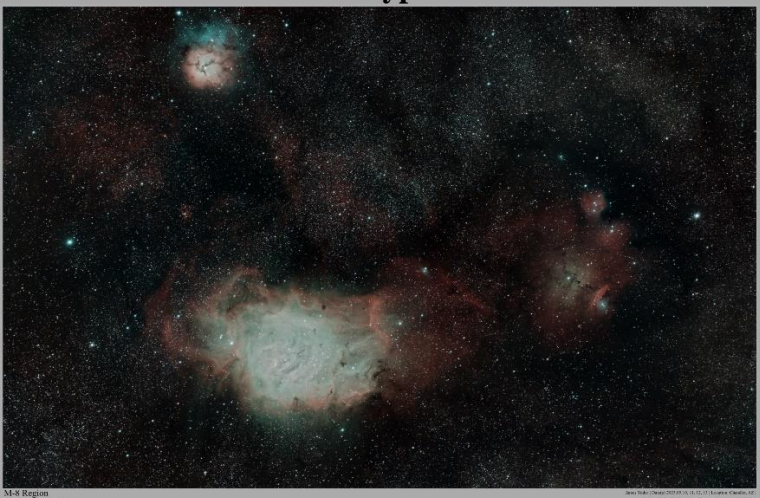
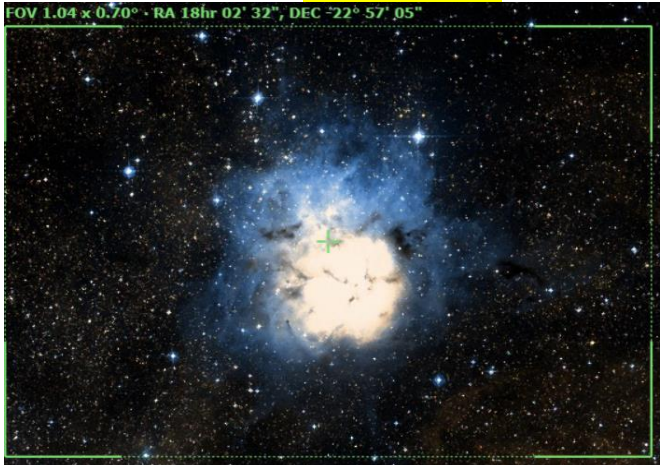
Prospective Imaging Objects – May 08 2024

<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: 01:05 – 03:59 Transit: 02:52 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: *01:13 – 03:59 Transit: 02:54 24°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<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: *12:30 – 03:59 Transit: 03:01 36°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – May 08 2024

<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: *12:30 – 03:59 Transit: 03:03 37°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small; text-align: center;">Box Nebula/Little Gem (NGC-6445) <small>Copyright © 2024, All Rights Reserved. This image is the property of the author and is not to be reproduced without permission.</small></p>
<p>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: *02:04 – 03:59 Transit: 03:08 22°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<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: *12:34 – 03:59 Transit: 03:11 38°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – May 08 2024

<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: 11:48 – 03:59 Transit: 03:13 57°</p>	<p align="center">C-11 HD: Primary Focus</p>  <p><small>Cat's Eye Nebula (NGC-6543) Constellation: Draco RA = 17h 59m 00s DEC = 66deg 37' 39.0" Size = 68.8 x 27.2 pixels Observation: 0.11 deg E of N Field width = 0.41 arcmin (FL=2000mm) Star: 18222 (Dec 2023) 12 Louisa Chandra AZ Config: C-11 HD Primary Focus C-11 HD ZWO6200MC Exposure: 10 7700000000 Gain: 1200 Offset: 100</small></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: *01:13 – 03:59 Transit: 03:18 32°</p>	<p align="center">C-11 HD: HyperStar v4</p>  <p><small>M8 Region Constellation: Sagittarius RA = 18h 05m 54s DEC = -23deg 56' 32.0" Size = 128.0 x 128.0 pixels Observation: 0.11 deg E of N Field width = 0.41 arcmin (FL=2000mm) Star: 186841 (Dec 2023) 15.11.12.13 Louisa Chandra AZ Config: C-11 HD HyperStar v4 C-11 HD ZWO6200MC Exposure: 10 7700000000 Gain: 1200 Offset: 100</small></p>
<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-8/NGC-6523 Imaging Window: *01:13 – 03:59 Transit: 03:18 32°</p>	<p align="center">C-11 HD: Focal Reducer</p> <p align="center">FOV 1.04 x 0.70° • RA 18hr 02' 32", DEC -22° 57' 05"</p>  <p><small>M20 Region Constellation: Sagittarius RA = 18h 02m 32s DEC = -22deg 57' 05.0" Size = 128.0 x 128.0 pixels Observation: 0.11 deg E of N Field width = 0.41 arcmin (FL=2000mm) Star: 186841 (Dec 2023) 15.11.12.13 Louisa Chandra AZ Config: C-11 HD Focal Reducer C-11 HD ZWO6200MC Exposure: 10 7700000000 Gain: 1200 Offset: 100</small></p>


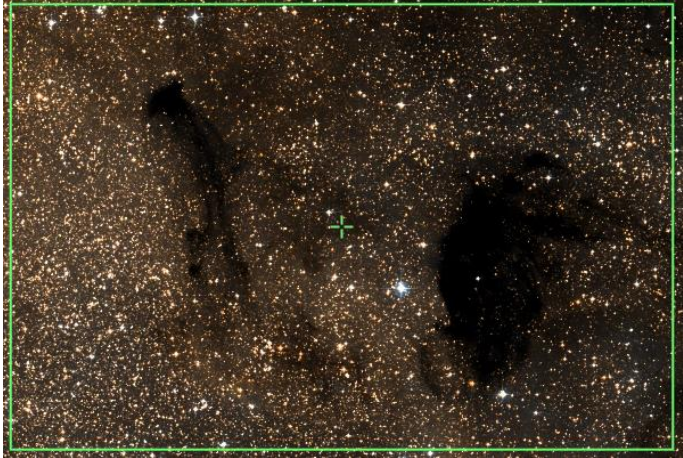
Prospective Imaging Objects – May 08 2024

<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: *01:03 – 03:59 Transit: 03:17 34°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small; text-align: center;">Trifid Nebula (M-20/NGC-6514) Constellation: Sagittarius RA: 18h 02m 42s Dec: -22° 57' 60" (J2000) (Photo: May 8 of '24, Focal: 1100mm) James Van Der Vliet (Denton) 2024 01 15, 2024 01 17, Location: Massachusetts Technical AZ Config: C-11 HD Primary Focus, No Filter, 500T24 Exposure: 100s, ISO: 1600, Gain: 100</p>
<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: *01:13 – 03:59 Transit: 03:18 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: *01:13 – 03:59 Transit: 03:18 32°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small; text-align: center;">FOV 0.72 x 0.49° - RA 18h 04' 02", DEC -24° 20' 56"</p>

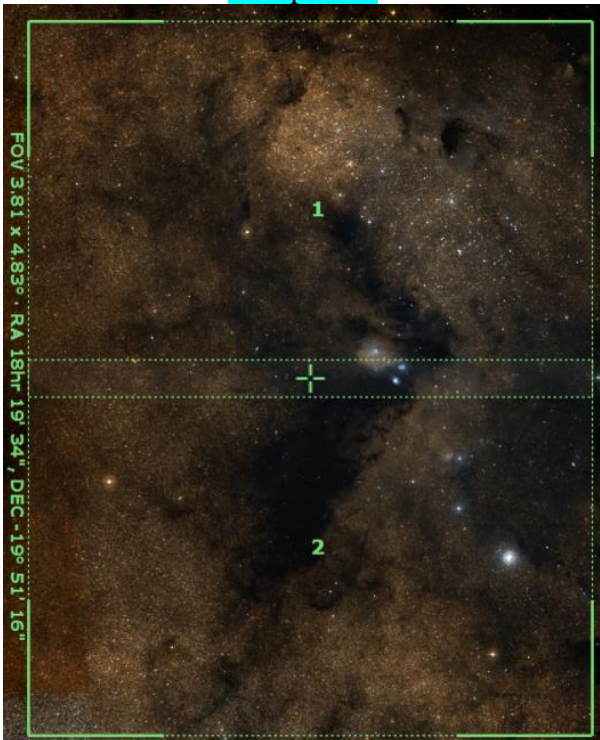

Prospective Imaging Objects – May 08 2024

<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: *12:58 – 03:59 Transit: 03:18 34°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<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° Catalog Objects: IC-1274 Imaging Window: *01:13 – 03:59 Transit: 03:25 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: *01:13 – 03:59 Transit: 03:25 33°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="font-size: small;">Bright Nebula IC-1274, IC-1275, IC-4685, NGC-6559 James Taylor Date: 2024-03-11 Location: Mission Grounds, Tucson, AZ Constellation: Sagittarius RA = 18:09:41.0 DEC = -23:52:50 Filter: H-alpha Exposure: 1200 Gain: 100 Offset: 100</p>




Prospective Imaging Objects – May 08 2024

<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: 12:53 – 03:59 Transit: 03:26 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: 06d 51m 15s Size: 27" x 13" filter: Cyanine-Mag-E-Filter (Polar) date: 02/20/2024 (F. Zoltner)</small></p> <p><small>Star: K0 III (Dist: 2120 +/- 400, 1210) (Lacka, Chavakis, 02) C-11 HD: Primary Focus (Red/Filter) (2023/03/02) Exposure: 0d 14:24:00sec Gain: 100 (0000e 30)</small></p>
<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: *12:46 – 03:59 Transit: 03:31 30°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 


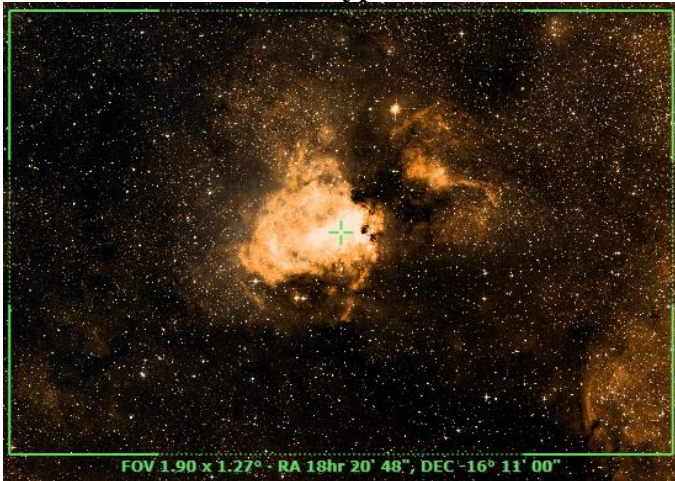
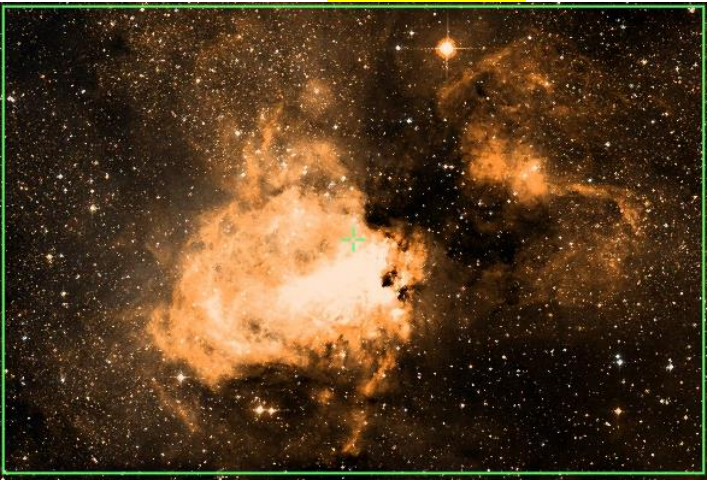
Prospective Imaging Objects – May 08 2024

<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 Imaging Window: *12:58 – 03:59 Transit: 03:31 37°</p>	<p>C-11 HD: HyperStar v4 Composite!</p> 
<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: *12:58 – 03:59 Transit: 03:31 37°</p>	<p>C-11 HD: Primary Focus</p> 


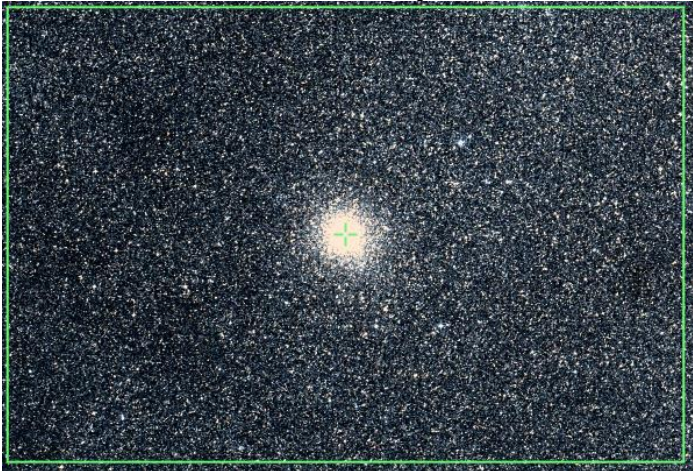
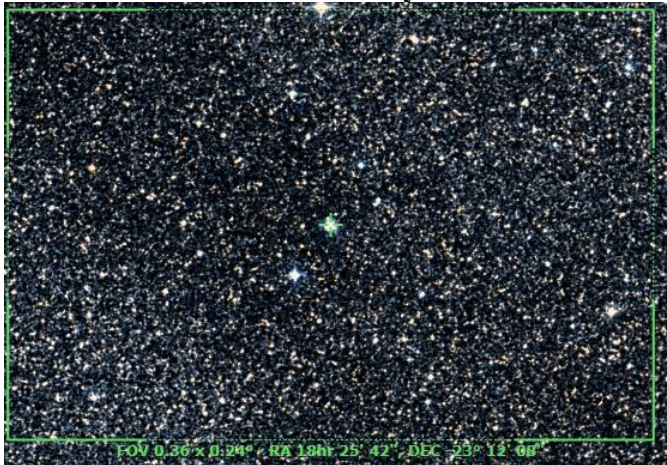
Prospective Imaging Objects – May 08 2024

<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: *12:46 – 03:59 Transit: 03:31 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: *12:30 – 03:59 Transit: 03:33 43°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<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: *12:30 – 03:59 Transit: 03:33 43°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 


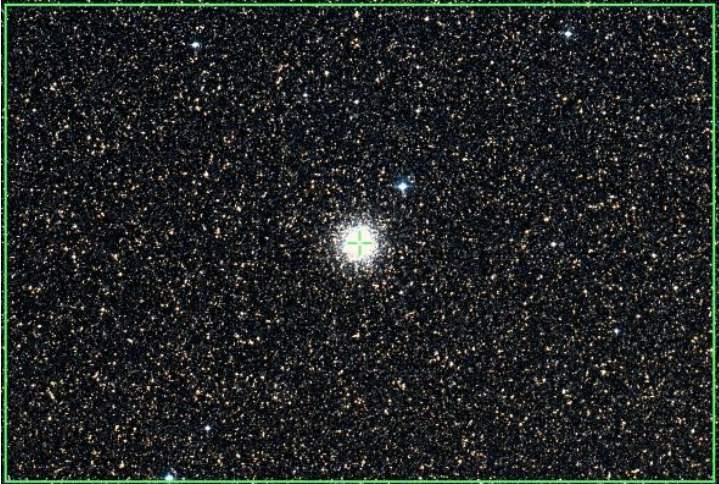
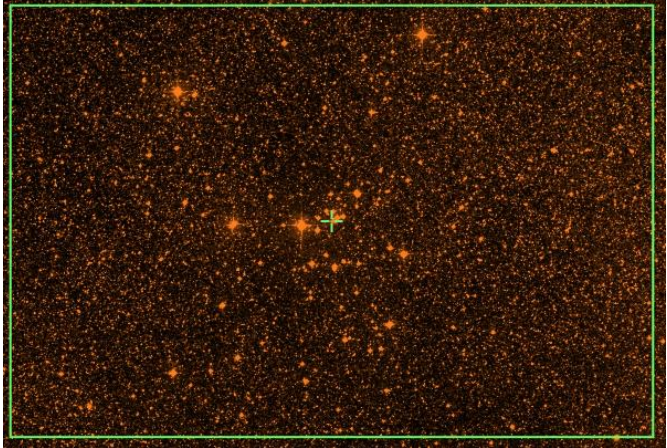
Prospective Imaging Objects – May 08 2024

<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: *12:46 – 03:59 Transit: 03:34 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: *12:46 – 03:59 Transit: 03:35 40°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<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: *12:46 – 03:59 Transit: 03:35 40°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 



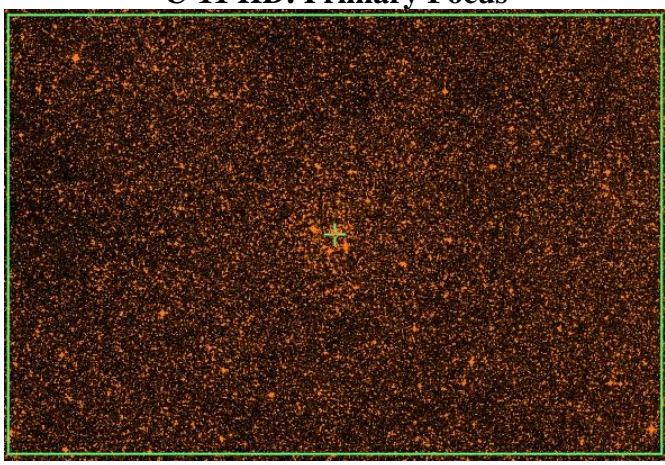
Prospective Imaging Objects – May 08 2024

<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: *12:46 – 03:59 Transit: 03:35 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: *01:36 – 03:59 Transit: 03:39 32°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<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: *01:31 – 03:59 Transit: 03:40 33°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

Prospective Imaging Objects – May 08 2024

<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: 10:09 – 03:59 Transit: 03:41 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: *02:10 – 03:59 Transit: 03:45 24°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<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: *01:08 – 03:59 Transit: 03:46 37°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

Prospective Imaging Objects – May 08 2024

<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: *01:42 – 03:59 Transit: 03:50 33°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</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: *02:21 – 03:59 Transit: 03:57 24°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<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: *01:03 – 03:59 Transit: 3:59 47°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

Prospective Imaging Objects – May 08 2024

IC-4776

Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Sagittarius**

Coordinates:

18h 45' 51"

-33° 20' 32"

Close Star: **SAO-186841** (Kaus Borealis)

Catalog Objects: [IC-4776](#)

Imaging Window: ***02:25 – 03:59**

Transit: **04:00 | 23°**

C-11 HD: Primary Focus



Blank
Page

Prospective Imaging Objects – May 08 2024

Imaging Summary May 08, 2024

Astronomical Dusk = 08:50

Astronomical Dawn = 03:59

HyperStar: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Nebula	Nebula	SH2-1	*11:28-03:10	01:13	22	Scorpius: Diffuse Nebula
HyperStar	Nebula	Nebula	IC-4592	*10:49-03:59	01:27	24	Scorpius: Blue Horsehead Nebula
HyperStar	Nebula	Nebula	IC-4604	*11:28-03:55	01:40	25	Scorpius: Ophiuchus Complex
HyperStar	Nebula	Nebula	M-16	*12:30-03:59	03:33	40	Serpens: Eagle Nebula
HyperStar	Nebula	Nebula	M-17	*12:46-03:59	03:35	41	Sagittarius: Omega Nebula

HyperStar: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Broad Spectrum	Galaxies	Galaxy Group 106	08:50 – 01:27	09:34	05	Canes Venatici: Galaxy Group M-106
HyperStar	Broad Spectrum	Galaxies	Markarian Chain	08:50 – 12:39	09:40	07	Virgo: Galaxy Chain
HyperStar	Broad Spectrum	Galaxies	Markarian Chain2	08:50 – 12:39	09:40	08	Virgo: Galaxy Chain2
HyperStar	Broad Spectrum	Galaxies	Galaxy Group 58	08:50 – 12:49	09:53	12	Virgo Galaxy Group M-58
HyperStar	Broad Spectrum	DN, GC	M-62 Region	*01:19-03:22	02:15	28	Ophiuchus: Globular Cluster and Dark Nebula
HyperStar	Broad Spectrum	DN	LDN-42	*12:58-03:59	02:46	30	Comp4! Ophiuchus: Dark Horse Nebula
HyperStar	Broad Spectrum	DN	LDN-1773	*12:58-03:59	02:34	31	Ophiuchus: Pipe Nebula
HyperStar	Broad Spectrum	DN	B-72	*12:30-03:59	02:38	31	Ophiuchus: Snake Nebula
HyperStar	Broad Spectrum	DN	IC-1283	*12:58-03:59	03:31	39	Comp2! Sagittarius: IC-1283 Region

Prospective Imaging Objects – May 08 2024

Imaging Summary May 08, 2024

Astronomical Dusk = 08:50

Astronomical Dawn = 03:59

Focal Reducer: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Nebula	Nebula	SH2-9	11:46 – 03:32	01:36	25	Scorpius: Nebula next to Antares
Focal Reducer	Nebula	Nebula	M-20	*01:13-03:59	03:18	35	Sagittarius: Trifid Nebula
Focal Reducer	Nebula	Nebula	M-8	*01:13-03:59	03:18	36	Sagittarius: Lagoon Nebula
Focal Reducer	Nebula	Nebula	IC-4685	*01:13-03:59	03:25	37	Sagittarius: Dark Nebula and Emission Nebula
Focal Reducer	Nebula	Nebula	IC-1274	*01:13-03:59	03:25	37	Sagittarius: Bright and Dark Nebula
Focal Reducer	Nebula	Nebula	M-16	*12:30-03:59	03:33	40	Serpens: Eagle Nebula
Focal Reducer	Nebula	Nebula	M-17	*12:46-03:59	03:35	41	Sagittarius: Omega Nebula

Focal Reducer: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Broad Spectrum	Galaxies	M-106, NGC4248	08:50 – 01:27	09:34	06	Canes Venatici: Galaxies
Focal Reducer	Broad Spectrum	Galaxies	M-84 et. El.	08:50 – 12:39	09:40	08	Virgo: Markarians Chain
Focal Reducer	Broad Spectrum	Galaxies	M-91, NGC4548	08:50 – 1:54	09:50	10	Coma Berenices: Galaxy Pair
Focal Reducer	Broad Spectrum	Galaxies	NGC4631, 4656	08:50 – 01:36	09:57	14	Canes Venatici: Whale and Hockey Stick
Focal Reducer	Broad Spectrum	Galaxies	M-59, M-60	08:50 – 12:52	09:57	14	Virgo: Galaxy Group
Focal Reducer	Broad Spectrum	Galaxies	NGC-4725 et. El.	10:05 – 01:33	10:05	15	Coma Berenices Galaxy Group
Focal Reducer	Broad Spectrum	Galaxies	Abell-1656	08:50 – 01:47	10:15	17	Coma Berenices: Coma Galaxy Cluster
Focal Reducer	Broad Spectrum	DN, GC	M-9	*12:30-03:59	02:33	29	Ophiuchus: Globular Cluster and Dark Nebula
Focal Reducer	Broad Spectrum	DN	LDN-1773	*12:58-03:59	02:34	31	Ophiuchus: Pipe Nebula

Prospective Imaging Objects – May 08 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Broad Spectrum	DN	B-72	*12:30-03:59	02:38	32	Ophiuchus: Snake Nebula
Focal Reducer	Broad Spectrum	DN	B-75	*12:19-03:59	02:39	32	Ophiuchus: Barnard 75
Focal Reducer	Broad Spectrum	OC, DN	M-24	*12:46-03:59	03:31	40	Sagittarius: Sagittarius Star Cloud

Prospective Imaging Objects – May 08 2024

Imaging Summary May 08, 2024

Astronomical Dusk = 08:50

Astronomical Dawn = 03:59

Primary Focus: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	PN	NGC-4361	*08:50-11:46	09:40	07	Corvus: Small Planetary Nebula
Primary Focus	Nebula	PN	IC-3568	*08:50-02:43	09:48	10	Camelopardalis: Lemon Slice Nebula
Primary Focus	Nebula	PN	NGC-6058	09:37 – 03:59	01:19	23	Hercules: Small PN
Primary Focus	Nebula	PN	IC-4593	10:36 – 03:59	01:26	24	Hercules: White Eyed Pea
Primary Focus	Nebula	PN	Abell-39	10:16 – 03:59	01:42	26	Hercules: Perfect Planetary PK 47+42.1
Primary Focus	Nebula	PN	NGC-6210	10:40 – 03:59	01:59	27	Hercules: Small PN Turtle Nebula
Primary Focus	Nebula	PN	NGC-6309	*11:51-03:59	02:28	29	Hercules: Box Nebula
Primary Focus	Nebula	PN	NGC-6359	*12:34-03:59	02:44	32	Ophiuchus: Little Ghost
Primary Focus	Nebula	PN	NGC-6445	*12:30-03:59	03:03	34	Sagittarius: Box Nebula
Primary Focus	Nebula	PN	NGC-6543	11:48 – 03:59	03:13	35	Draco: Cat's Eye Nebula
Primary Focus	Nebula	Nebula	M-20	*01:03-03:59	03:17	36	Sagittarius: Trifid Nebula
Primary Focus	Nebula	Nebula	M-8	*01:13-03:59	03:18	36	Sagittarius: Lagoon Nebula
Primary Focus	Nebula	PN	NGC-6572	12:53 – 03:59	03:26	38	Ophiuchus: Emerald Nebula
Primary Focus	Nebula	Nebula	IC-1283	*12:58-03:59	03:31	39	Sagittarius: Nebula region NGC-6589
Primary Focus	Nebula	Nebula	M-17	*12:46-03:59	03:35	42	Sagittarius: Omega Nebula
Primary Focus	Nebula	PN	NGC-6629	*01:31-03:59	03:40	42	Sagittarius: Sm Planetary Nebula
Primary Focus	Nebula	PN	IC-4776	*02:25-03:59	04:00	45	Sagittarius: Sm Planetary Nebula

Prospective Imaging Objects – May 08 2024

Imaging Summary May 08, 2024

Astronomical Dusk = 08:50

Astronomical Dawn = 03:59

Primary Focus: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxies	Arp-214	08:50 – 12:41	08:48	02	Ursa Major: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	NGC-3745 et. El	08:50 – 12:14	08:53	02	Leo: Copeland's Septet
Primary Focus	Broad Spectrum	Galaxies	Abell-1367	08:50 – 12:17	09:00	02	Leo: Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxies	Arp-248	*08:50-11:23	09:02	03	Ursa Major: Wild's Triplet
Primary Focus	Broad Spectrum	Galaxy	M-109	08:50 – 01:06	09:13	03	Ursa Major: Face on med spiral galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4027	*08:50-11:18	09:15	03	Corvus: Irregular galaxy
Primary Focus	Broad Spectrum	Galaxies	Arp-244	*08:50-11:23	09:17	04	Corvus: Antennae Galaxies
Primary Focus	Broad Spectrum	Galaxy	M-98	08:50 – 12:33	09:29	04	Cooma Berenices: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4236	08:50 – 12:50	09:32	04	Draco: Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4244	08:50 – 01:18	09:33	05	Canes Venatici: Silver Needle
Primary Focus	Broad Spectrum	Galaxy	M-99	08:50 – 12:37	09:34	05	Coma Berenices: St. Katherines Wheel
Primary Focus	Broad Spectrum	Galaxy	M-61	08:50 – 12:08	09:37	06	Virgo: Face on Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	M-40	08:50 – 01:27	09:37	06	Ursa Major: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	M-100	08:50 – 12:45	09:38	07	Coma Berenices: Set of Galaxies
Primary Focus	Broad Spectrum	Galaxy	NGC-4449	08:50 – 01:34	09:43	08	Canes Venatici: Interesting Irregular Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-49	08:50 – 12:43	09:46	09	Virgo: Elliptical Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-87	08:50 – 12:43	09:46	09	Virgo: Virgo A Elliptical Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-4490	08:50 – 01:35	09:46	09	Canes Venatici: Interacting Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	M-91	08:50 – 12:54	09:50	10	Coma Berenices: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	M-89 et. El	08:50 – 12:49	09:51	11	Virgo: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	NGC-4559	08:50 – 01:23	09:51	11	Coma Berenices: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-4567	08:50 – 12:46	09:52	11	Virgo: Siamese Twins et. El.
Primary Focus	Broad Spectrum	Galaxy	NGC-4565	08:50 – 01:20	09:51	12	Coma Berenices: Needle Galaxy

Prospective Imaging Objects – May 08 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	M-90	08:50 – 12:51	09:52	12	Virgo: Med Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-58	08:50 – 12:49	09:53	13	Virgo: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Globular	M-68	*08:50-11:46	09:54	13	Hydra: Med Globular
Primary Focus	Broad Spectrum	Galaxy	M-104	*08:50-12:40	09:55	13	Virgo: Sombrero Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4676 A&B	08:50 – 01:38	10:01	14	Coma Berenices: The Mice
Primary Focus	Broad Spectrum	Galaxies	NGC-4725	08:50 – 01:33	10:05	15	Coma Berenices: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	M-94	08:50 – 01:55	10:06	15	Canes Venatici: Med Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4731	*08:50-01:19	10:06	16	Virgo: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-4762, 4754	08:50 – 01:02	10:08	16	Virgo: Edge on and other Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-64	08:55 – 01:32	10:12	16	Coma Berenices: Black Eye Galaxy
Primary Focus	Broad Spectrum	Galaxies	Abell-1656	08:50 – 01:47	10:15	17	Coma Berenices: Coma Galaxy Cluster
Primary Focus	Broad Spectrum	Globular	M-53	08:50 – 01:40	10:28	17	Coma Berenices: Med Globular
Primary Focus	Broad Spectrum	Galaxy	NGC-5033	08:50 – 02:13	10:28	18	Canes Venatici: Med Face on Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-63	08:50 – 02:20	10:31	18	Canes Venatici: Med Face on Galaxy
Primary Focus	Broad Spectrum	Globular	NGC-5053	08:50 – 01:43	10:31	18	Coma Berenices Large open Globular
Primary Focus	Broad Spectrum	Galaxy	M-51	08:50 – 02:38	10:45	19	Canes Venatici: Whirlpool Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-3	08:50 – 02:30	10:57	19	Canes Venatici: Large Globular
Primary Focus	Broad Spectrum	Galaxy	NGC-5395	08:50 – 02:59	11:13	19	Canes Venatici: Heron Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-101	08:50 – 03:59	11:18	20	Ursa Major: Pinwheel Galaxy
Primary Focus	Broad Spectrum	Globular	NGC-5466	08:50 – 02:54	11:20	20	Bootes: Large open globular
Primary Focus	Broad Spectrum	Galaxy	M-102	08:50 – 03:59	12:21	20	Draco: Spindle Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-5905, 5908	08:50 – 03:59	12:30	21	Draco: Face on and Edge on galaxy pair
Primary Focus	Broad Spectrum	Galaxy	NGC-5907	08:50 – 03:59	12:30	21	Draco: Splinter Galaxy
Primary Focus	Broad Spectrum	Globular	M-5	10:18 – 03:59	12:33	21	Serpens: Med Globular
Primary Focus	Broad Spectrum	Galaxies	NGC-5985, 81, 82	09:12 – 03:59	12:54	22	Draco: Draco Trio of galaxies
Primary Focus	Broad Spectrum	Galaxies	NGC-6027A-E	10:01 – 03:59	01:14	22	Serpens: Seyfert's Sextet
Primary Focus	Broad Spectrum	Galaxies	Abell-2151	10:14 – 03:59	01:20	23	Hercules: Hercules Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxy	Arp-188	09:34 – 03:59	01:20	23	Draco: Tadpole Galaxy

Prospective Imaging Objects – May 08 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Globular	M-80	*11:18-03:49	01:31	24	Scorpius: Med Globular NGC-6093
Primary Focus	Broad Spectrum	Globular	M-4	*11:56-03:27	01:38	25	Scorpius: Large Globular Cluster NGC-6121
Primary Focus	Broad Spectrum	Globular	M-107	*11:07-03:59	01:47	26	Ophiuchus: Med Globular NGC-6171
Primary Focus	Broad Spectrum	Globular	M-13	10:18 - 03:59	01:56	26	Hercules: The Great Hercules Globular NGC-5205
Primary Focus	Broad Spectrum	Globular	M-12	12:07 – 03:59	02:02	27	Ophiuchus: Large Globular NGC-6218
Primary Focus	Broad Spectrum	Globular	M-10	12:30 – 03:59	02:11	27	Ophiuchus: Large Globular NGC-6254
Primary Focus	Broad Spectrum	Globular	M-62	*01:19-03:22	02:15	28	Ophiuchus: Large Globular NGC-6266
Primary Focus	Broad Spectrum	Globular	M-19	*12:34-03:59	02:17	28	Ophiuchus: Med Globular NGC-6273
Primary Focus	Broad Spectrum	Globular	M-92	10:47 – 03:59	02:31	29	Hercules: Med Globular NGC-6341
Primary Focus	Broad Spectrum	Globular	M-9	*12:30-03:59	02:33	30	Ophiuchus: Med Globular NGC-6333
Primary Focus	Broad Spectrum	Globular	M-14	01:05 – 03:59	02:52	33	Ophiuchus: Med Globular NGC-6402
Primary Focus	Broad Spectrum	OC	M-6	*01:13-03:59	02:54	33	Scorpius: Butterfly Cluster
Primary Focus	Broad Spectrum	DN	B-84	*12:30-03:59	03:01	33	Sagittarius: Praying Matis Nebula
Primary Focus	Broad Spectrum	OC	M-7	*02:04-03:59	03:08	34	Scorpius: Ptolemy Cluster
Primary Focus	Broad Spectrum	OC	M-23	*12:34-03:59	03:11	34	Sagittarius: Open Cluster NGC-6494
Primary Focus	Broad Spectrum	OC	M-21	*12:58-03:59	03:18	37	Sagittarius: Open Cluster NGC-6531
Primary Focus	Broad Spectrum	DN	B-93	*12:46-03:59	03:31	38	Sagittarius: Dark Nebula LDN-327
Primary Focus	Broad Spectrum	OC	M-18	*12:46-03:59	03:34	41	Sagittarius: Open Cluster NGC-66133
Primary Focus	Broad Spectrum	GC	M-28	*01:36-03:59	03:39	42	Sagittarius: Med Globular NGC-6626
Primary Focus	Broad Spectrum	OC	NGC-6633	10:09 – 03:59	03:41	43	Ophiuchus: Open Cluster NGC-6633
Primary Focus	Broad Spectrum	GC	M-69	*02:10-03:59	03:45	43	Sagittarius: Med Globular NGC-6637
Primary Focus	Broad Spectrum	OC	M-25	*01:08-03:59	03:46	43	Sagittarius: Open Cluster IC-4725
Primary Focus	Broad Spectrum	GC	M-22	*01:42-03:59	03:50	44	Sagittarius: Med Globular NGC-6656
Primary Focus	Broad Spectrum	GC	M-70	*02:21-03:59	03:57	44	Sagittarius: Sm Globular NGC-6681
Primary Focus	Broad Spectrum	OC	M-26	*01:03-03:59	03:59	44	Sagittarius: Open Cluster NGC-6694
Primary Focus	Broad Spectrum						

Prospective Imaging Objects – May 08 2024

Imaging Summary May 08, 2024

Astronomical Dusk = 08:50

Astronomical Dawn = 03:59

Primary Prospects

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	HyperStar	Broadband	Galaxies	M-84 Et. El	08:50 – 12:39	09:40	08	Virgo: Markarian Chain 2
	HyperStar	Broadband	Galaxies	M-58 Et. El	08:50 – 12:49	09:53	12	Virgo: Galaxy Group M-58
	HyperStar	Nebula	Nebula	SH2-1	*11:28-03:10	01:13	22	Scorpius: Blue Nebula
	HyperStar	Broadband	DN, GC	M-62 Region	*01:19-03:22	02:15	28	Ophiuchus: M-62 Region
	HyperStar	Broadband	DN	LDN-42	*12:58-03:59	02:46	30	Comp4! Ophiuchus: Dark Horse Nebula
	HyperStar	Broadband	DN	B-72	*12:30-03:59	02:38	31	Ophiuchus: Snake Nebula
	HyperStar	Broadband	DN	IC-1283	*12:58-03:59	03:31	39	Comp2! Sagittarius: DNebula NGC-6589
	HyperStar	Nebula	Nebula	M-17	*12:46-03:59	03:35	41	Sagittarius: Omega Nebula
	Focal Reducer	Broadband	Galaxies	M-84 et. El.	08:50 – 12:39	09:40	08	Virgo: Markarian's Chain
	Focal Reducer	Broadband	Galaxies	M-91	08:50 – 12:54	09:50	10	Coma Berenices: Galaxy Pair
	Focal Reducer	Broadband	Galaxies	Abell-1656	08:50 – 01:47	10:15	17	Coma Berenices: Coma Galaxy Cluster
	Focal Reducer	Nebula	Nebula	SH2-9	11:46 – 03:32	01:36	25	Scorpius: Diffuse Nebula near star
	Focal Reducer	Broadband	DN & GC	M-9	*12:30-03:59	02:33	29	Ophiuchus: Dark Nebula and Globular
	Focal Reducer	Broadband	DN	LDN-1773	*12:58-03:59	02:34	31	Ophiuchus: Pipe Nebula
	Focal Reducer	Broadband	DN	B-75	*12:19-03:59	02:39	32	Ophiuchus: Barnard 75
	Focal Reducer	Nebula	Nebula	M-20	*01:13-033:59	03:18	35	Sagittarius: Trifid Nebula
	Focal Reducer	Nebula	Nebula	M-8	*01:13-03:59	03:18	36	Sagittarius: Lagoon Nebula
	Focal Reducer	Nebula	Neb, DN	IC-4685	*01:13-03:59	03:25	37	Rot90 Sagittarius: Bright and Dark nebula
	Focal Reducer	Broadband	Broadband	M-24	*12:46-03:59	03:31	40	Sagittarius: Sagittarius Star Cloud
	Focal Reducer	Nebula	Nebula	M-16	*12:30-03:59	03:33	40	Serpens: Eagle Nebula
	Focal Reducer	Nebula	Nebula	M-17	*12:46-03:59	03:35	41	Sagittarius: Omega Nebula

Prospective Imaging Objects – May 08 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Primary Focus	Broadband	Galaxy	NGC-4449	08:50 – 01:34	09:43	08	Canes Venatici: Irregular Galaxy
	Primary Focus	Broadband	Galaxy	NGC-4559	08:50 – 01:23	09:51	11	Coma Berenices: Barred Spiral Galaxy
	Primary Focus	Broadband	Galaxies	NGC-4567 et. El.	08:50 – 12:46	09:52	11	Virgo: Siamese Twins
	Primary Focus	Broadband	Galaxy	M-90	08:50 – 12:51	09:52	12	Virgo: Med Galaxy
	Primary Focus	Broadband	Galaxy	M-58	08:50 – 12:49	09:53	13	Virgo: Barred Spiral Galaxy NGC-4579
	Primary Focus	Broadband	Globular	M-68	*08:50-11:46	09:54	13	Hydra: Med Globular
	Primary Focus	Broadband	Galaxies	NGC-4725	08:50 – 01:33	10:05	15	Coma Berenices: Galaxy Group
	Primary Focus	Broadband	Galaxies	NGC-4731	*08:50-01:19	10:06	16	Virgo: Face on Barred Spiral
	Primary Focus	Broadband	Galaxies	NGC-4762, 4754	08:50 – 01:02	10:08	16	Virgo: Galaxy Pair
	Primary Focus	Broadband	Galaxy	NGC-5033	08:50 – 02:13	10:28	18	Canes Venatici: Face on Galaxy PGC-45948
	Primary Focus	Broadband	Galaxies	NGC-5395 Et. El.	08:50 – 02:59	11:13	19	Canes Venatici: Heron Galaxy Et. El.
	Primary Focus	Broadband	Galaxies	Abell-2151	10:14 – 03:59	01:20	23	Hercules: Hercules Galaxy Cluster
	Primary Focus	Nebula	PN	NGC-6058	09:37 – 03:59	01:19	23	Hercules: Small Planetary nebula
	Primary Focus	Broadband	GC	M-107	*11:07-03:59	01:47	26	Ophiuchus: Med Globular
	Primary Focus	Broadband	GC	M-10	12:30 – 03:59	02:11	27	Ophiuchus: Large Globular
	Primary Focus	Broadband	GC	M-62	*01:19-03:22	02:15	28	Ophiuchus: Large Globular
	Primary Focus	Broadband	GC	M-19	*12:34-03:59	02:17	29	Ophiuchus: Large Globular
	Primary Focus	Nebula	PN	NGC-6309	*11:51-03:59	02:28	29	Hercules: Box Nebula
	Primary Focus	Nebula	PN	NGC-6359	*12:34-03:59	02:44	32	Ophiuchus: Little Ghost
	Primary Focus	Broadband	GC	M-14	01:05 – 03:59	02:52	33	Ophiuchus: Med Globular NGC-6402
	Primary Focus	Nebula	Nebula	M-8	*01:13-03:59	03:18	36	Sagittarius: Lagoon Nebula
	Primary Focus	Broadband	DN	B-93	*12:46-03:59	03:31	38	Sagittarius: Dark Nebula LDN-327
	Primary Focus	Nebula	Nebula	IC-1283	*12:58-03:59	03:31	39	Sagittarius: Diffuse Nebula NGC-6589
	Primary Focus	Broadband	GC	M-28	*01:36-03:59	03:39	42	Sagittarius: Med GC NGC-6626
	Primary Focus	Nebula	PN	NGC-6629	*01:31-03:59	03:40	42	Sagittarius: Small PN
	Primary Focus	Broadband	GC	M-69	*02:10-03:59	03:45	43	Sagittarius: Sm-Med Globular NGC-6637

Prospective Imaging Objects – May 08 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Primary Focus	Broadband	GC	M-70	*02:21-03:59	03:57	44	Sagittarius: Sm/Med Globular NGC-6681
	Primary Focus	Nebula	PN	IC-4776	*02:25-03:59	04:00	45	Sagittarius: Small PN

Prospective Imaging Objects – May 08 2024

Imaging Summary May 08, 2024

Astronomical Dusk = 08:50

Astronomical Dawn = 03:59

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					