

# Prospective Imaging Objects – April 08 2024

## Astronomical Data

Sunrise	Sunset	Astronomical Dusk	Astronomical Dawn	Imaging	New Moon
06:05am	06:53 pm	08:19 pm	04:39 am	08:30	April 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.

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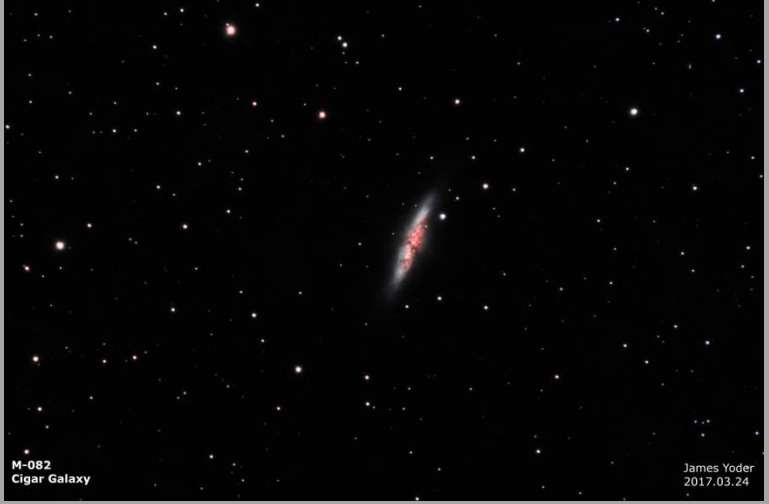


**08: Transit** – When the object is at the highest point in the sky for the night. For equatorial mounts this is when the meridian flip will occur.

<p><b>Helix Galaxy (NGC-2685)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Ursa Major</b> Coordinates: <b>08h 55' 14"</b> <b>58° 42' 24"</b></p> <p>Close Star: <b>SAO-27876</b> (Merak) Catalog Objects: <a href="#">NGC-2685</a></p> <p>Imaging Window: <b>08:39 – 12:05</b> Transit: <b>08:46   65°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-2903</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Leo</b> Coordinates: <b>09h 32' 08.949"</b> <b>21° 30' 37.772"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus) Catalog Objects: <a href="#">NGC-2903</a></p> <p>Imaging Window: <b>08:39 – 12:05</b> Transit: <b>08:46   78°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p><small>NGC-2903 Barred Spiral Galaxy in Leo</small></p> <p><small>James Yoder 2017.02.24</small></p>




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<p><b>Bode's Cigar (M81 &amp; M82)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxy Pair</b>            Peak:            Constellation: <b>Ursa Major</b>            Coordinates:  <b>09hr 54' 02"</b>  <b>68° 53' 32"</b></p> <p>Close Star: <b>SAO-15384</b>            Catalog Objects: M-81 &amp; <a href="#">M-82</a></p> <p>Imaging Window: <b>08:39 – 12:26</b>            Transit: <b>09:09   54°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Cigar galaxy (M-82), Bode's galaxy (M-81), NGC-2976            James Yoder   Date: 2020-12-01, 2020-12-01   Location: Chandler, AZ            Config: C-11HD   HyperStar V4   LPS-S2   C13.6-CC   GH1126            Exposure Info: 90frames@90sec, 240sec@180sec   Gain: 3200   Offset: 180              RA = 09h 54m 43.89s, DEC = +68deg 53' 03.72"   Size = 3.14 x 2.89 deg   Orientation: 3.6 deg E of N   Pixel scale = 2.28 arcsec/pixel   FL=0.68mm</p>
<p><b>Bode's Cigar (M81 &amp; M82)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxy Pair</b>            Constellation: <b>Ursa Major</b>            Coordinates:            RA: <b>09hr 55' 40"</b> DEC: <b>69° 18' 39"</b>  <b>90° Rotation</b></p> <p>Close Star: <b>SAO-15384</b>            Catalog Objects: M-81 &amp; <a href="#">M-82</a></p> <p>Imaging Window: <b>08:39 – 12:26</b>            Transit: <b>09:09   54°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small;">FOV 1.04 x 0.69° - RA 09hr 55' 40", DEC 69° 18' 39" - 0.59"/px</p>
<p><b>Bode's Nebula (M-81)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b>            Constellation: <b>Ursa Major</b>            Coordinates:  <b>09h 55' 24.184"</b>  <b>69° 05' 18.969"</b></p> <p>Close Star: <b>SAO-15384</b>            Catalog Objects: M-81/<a href="#">NGC-3031</a></p> <p>Imaging Window: <b>08:39 – 12:29</b>            Transit: <b>09:09   54°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small;">M-081 Bode's Galaxy James Yoder 2015.11.14</p>




# Prospective Imaging Objects – April 08 2024

<p><b>Cigar Galaxy (M-82)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Ursa Major</b> Coordinates: <b>09h 55' 57.451"</b> <b>69° 42' 37.646"</b></p> <p>Close Star: <b>SAO-15384</b> Catalog Objects: <a href="#">M-82</a>/NGC-3034</p> <p>Imaging Window: <b>08:39 – 12:26</b> Transit: <b>09:09   54°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">M-82 Cigar Galaxy</p> <p style="text-align: right; font-size: small;">James Yoder 2017.03.24</p>
<p><b>Spindle Galaxy (NGC-3115)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Sextans</b> Coordinates: <b>10h 05' 21"</b> <b>-07° 47' 09"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus) Catalog Objects: <a href="#">NGC-3115</a></p> <p>Imaging Window: <b>*08:39 – 12:27</b> Transit: <b>09:19   49°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Powder keg Galaxy (UGC-5470)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Leo</b> Coordinates: <b>10h 08' 27"</b> <b>12° 19' 49"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus) Catalog Objects: <a href="#">UGC-5470</a></p> <p>Imaging Window: <b>08:39 – 12:19</b> Transit: <b>09:22   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small;">Dwarf Galaxy Leo 1 (UGC-5470) © 2024 James Yoder This image was captured on 2024-03-20 at 09:22:19 UT using a C-11 HD telescope and ZWO6200MC camera. The image was processed using the software mentioned in the footer.</p>




# Prospective Imaging Objects – April 08 2024

<p><b>NGC-3166 &amp; NGC-3169</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy pair</b></p> <p>Constellation: <b>Sextans</b>            Coordinates:  <b>10h 14' 01"</b>  <b>03° 25' 51"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)            Catalog Objects: <a href="#">NGC-3166</a>, NGC-3169</p> <p>Imaging Window: <b>08:39 – 11:54</b>            Transit: <b>09:27</b>   <b>60°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Hickson 44</b> (NGC-3190, 3189,)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>10h 17' 57"</b>  <b>21° 49' 11"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)            Catalog Objects: <a href="#">NGC-3189</a>, 3190, 3185, 3193, 3187, PGC-2806871</p> <p>Imaging Window: <b>08:39 – 12:52</b>            Transit: <b>09:31</b>   <b>79°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Hickson-44 Galaxy Cluster (Amp-316)  <small>© 2024 Starizona LLC. All rights reserved. This image is for personal use only. No part of this image may be reproduced without the written permission of Starizona LLC.</small></p>
<p><b>NGC-3184</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Face-on Spiral Galaxy</b></p> <p>Constellation: <b>Ursa Major</b>            Coordinates:  <b>10h 18' 17"</b>  <b>41° 25' 24"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)            Catalog Objects: <a href="#">NGC-3184</a></p> <p>Imaging Window: <b>08:39 – 01:21</b>            Transit: <b>09:32</b>   <b>82°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Barred Spiral Galaxy NGC-3184  <small>© 2024 Starizona LLC. All rights reserved. This image is for personal use only. No part of this image may be reproduced without the written permission of Starizona LLC.</small></p>




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<p><b>NGC-3227 &amp; NGC-3226</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Interacting Galaxies</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>10h 23' 29"</b>  <b>19° 53' 07"</b></p> <p>Close Star: <b>SAO-60178</b> (Castor)            Catalog Objects: <a href="#">NGC-3227</a>, NGC-3226</p> <p>Imaging Window: <b>08:39 – 12:53</b>            Transit: <b>09:37   77°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Ghost of Jupiter (NGC-3242)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Hydra</b>            Coordinates:  <b>10h 24' 46"</b>  <b>-18° 38' 31"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)            Catalog Objects: <a href="#">NGC-3242</a></p> <p>Imaging Window: <b>*08:39 – 11:43</b>            Transit: <b>09:38   38°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;"> <small>NGC-3242 (Ghost of Jupiter)            Constellation: Hydra            James Volder   Date(s) 2020.12.09.10   Location: Chandler, AZ              Config:  C-11 HD OFF Trail Ultra   ZWO6200MC              RA = 10h 24m 46.7s, DEC = -18deg 38' 31.4"   Size = 18.8 x 13.9 arcmin   Orientation: -0.6deg E of N   Pixel scale = 0.278 arcsec/pixel   FL=200mm              Exposure: 16s   16 frames @ 2min   Gain: 100   Offset: 50</small> </p>
<p><b>Galaxy Group 2574</b>            Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>10h 28' 40"</b>  <b>68° 26' 14"</b></p> <p>Close Star: <b>SAO-27876</b> (Merak)            Catalog Objects: <a href="#">IC-2574</a></p> <p>Imaging Window: <b>08:39 – 01:05</b>            Transit: <b>09:42   55°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="text-align: center; color: green; font-weight: bold;">FOV 3.81 x 2.54° · RA 10hr 12' 10", DEC 69° 02' 51"</p>

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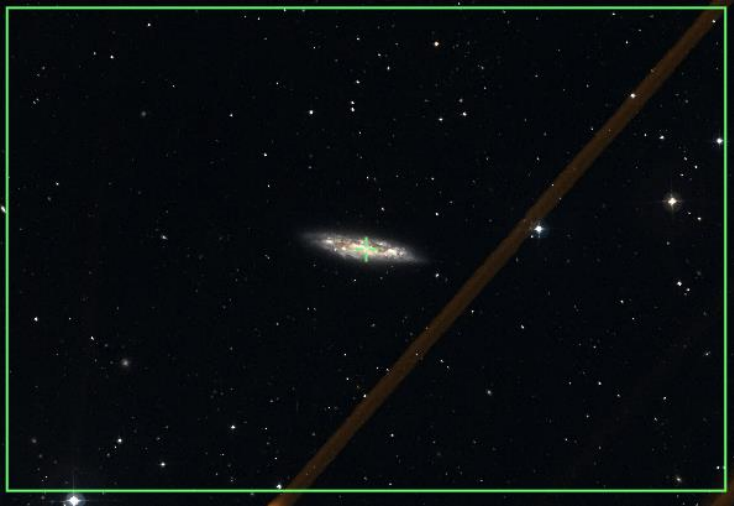

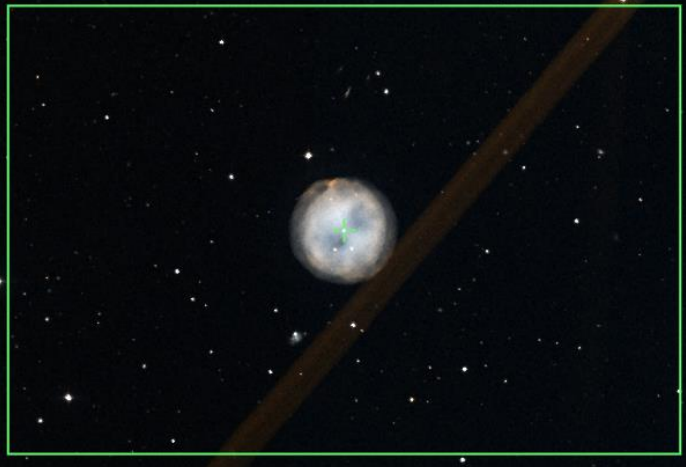
<p><b>Coddington's Nebula (IC-2574)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Leo</b> Coordinates: <b>10h 28' 40"</b> <b>68° 26' 14"</b></p> <p>Close Star: <b>SAO-27876 (Merak)</b> Catalog Objects: <a href="#">IC-2574</a></p> <p>Imaging Window: <b>08:39 – 01:05</b> Transit: <b>09:42   55°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p><small>Coddington Nebula (IC-2574) Constellation: Ursa Major RA = 10h 28m 41.7s DEC = +68deg 26' 48.2"   Size = 32.3 x 23.4 arcmin   Orientation: 0.02deg E of N   Pixel scale = 0.452 arcsec/pixel   FL=2724mm</small></p> <p><small>James Yoder   Date(s) 2022.04.01 - 2020.04.08   Location: Chandler, AZ Config:  C-11 HD (Baader Skyglow)   QHY128c   Exposure Info:  200frames@4min   Gain: 3200   Offset: 180  </small></p>
<p><b>Leo Galaxy Group (M-96, M95 et al.)</b> Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Galaxy Grouping</b></p> <p>Constellation: <b>Leo</b> Coordinates: <b>10h 47' 23"</b> <b>12° 23' 59"</b></p> <p>Close Star: <b>SAO-98967 (Regulus)</b> Catalog Objects: <a href="#">M-96</a>, M95, NGC3389, NGC3384, M105</p> <p>Imaging Window: <b>08:59 – 12:56</b> Transit: <b>10:00   69°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p>  <p><small>Galaxy Cluster in Leo</small></p> <p><small>James Yoder, 2018.04.17</small></p>
<p><b>M-95, M-96 (NGC-3351, 3368)</b> Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Galaxy Pair</b></p> <p>Constellation: <b>Leo</b> Coordinates: <b>10h 45' 20"</b> <b>11° 44' 30"</b></p> <p>Close Star: <b>SAO-98967 (Regulus)</b> Catalog Objects: <a href="#">M-95</a>, M-96</p> <p>Imaging Window: <b>08:39 – 12:53</b> Transit: <b>09:57   68°</b></p>	<p><b>C-11 HD: <b>Focal Reducer</b></b></p>  <p><small>Galaxy pair M-95(NGC-3351) &amp; M-96(NGC-3368) Constellation: Leo the Lion RA = 10h 45m 19.6s DEC = +11deg 44' 27.7"   Size = 19.3 x 40 arcmin   Pixel scale = 0.179 arcsec/pixel</small></p> <p><small>James Yoder   2023.04.27   Location: Mountain View, California Config:  C-11 HD Pro Filter   QHY128c   Exposure Info:  200frames@4min   Gain: 3200   Offset: 180  </small></p>

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<p><b>Leo Trio 2</b> (NGC-3379, 3384, 3389) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Trio of Galaxies</b></p> <p>Constellation: <b>Leo</b> Coordinates: <b>10h 48' 07.227"</b> <b>12° 33' 52.943"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus) Catalog Objects: <a href="#">M-105</a>/NGC3379, NGC-3384, NGC-3389</p> <p>Imaging Window: <b>08:39 – 12:59</b> Transit: <b>10:01   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Ambartsumian's Knot et al.</b> (NGC-3561, 3558, 3553, 3550, etc.) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Ursa Major</b> Coordinates: <b>11h 10' 43"</b> <b>28° 41' 41"</b></p> <p>Close Star: <b>SAO-81727</b> (Zosma) Catalog Objects: <a href="#">NGC-3561</a></p> <p>Imaging Window: <b>08:39 – 02:17</b> Transit: <b>10:25   85°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-108 &amp; NGC-3587</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Irregular Galaxy &amp; Planetary Nebula</b></p> <p>Constellation: <b>Ursa Major</b> Coordinates: <b>11h 12' 49"</b> <b>55° 20' 57"</b></p> <p>Close Star: <b>SAO-27876</b> (Merak) Catalog Objects: <a href="#">M-108</a>/NGC-3555</p> <p>Imaging Window: <b>08:39 – 02:17</b> Transit: <b>10:25   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 





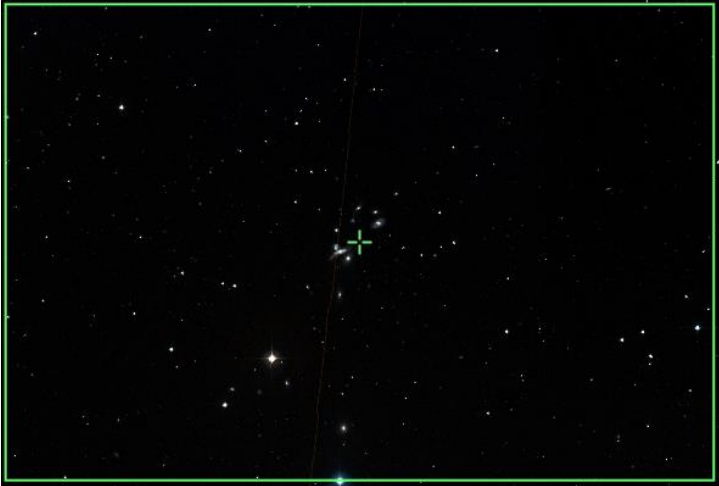
# Prospective Imaging Objects – April 08 2024

<p><b>M-108 (NGC-3556)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Irregular Galaxy</b></p> <p>Constellation: <b>Ursa Major</b>            Coordinates:  <b>11h 11' 29"</b>  <b>55° 40' 22"</b></p> <p>Close Star: <b>SAO-27876 (Merak)</b>            Catalog Objects: <a href="#">M-108</a>/NGC-3555</p> <p>Imaging Window: <b>08:39 – 02:17</b>            Transit: <b>10:25   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Owl Nebula (NGC-3587)</b>            Config:  C11HD ZWO6200MC             Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Ursa Major</b>            Coordinates:  <b>11h 14' 48"</b>  <b>55° 01' 10"</b></p> <p>Close Star: <b>SAO-27876</b>            Catalog Objects: <a href="#">M-97</a>/NGC-3587</p> <p>Imaging Window: <b>08:39 – 02:20</b>            Transit: <b>10:28   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">Owl Nebula (NGC-3587 / M-97)            Constellation: Ursa Major            Coordinates: 11h 14m 48s, 55° 01' 10"</p>
<p><b>Owl Nebula (NGC-3587)</b>            Config:  C11HD <b>Barlow x2</b> ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Constellation: <b>Ursa Major</b>            Coordinates:  <b>11h 14' 48"</b>  <b>55° 01' 10"</b></p> <p>Close Star: <b>SAO-27876</b>            Catalog Objects: <a href="#">M-97</a>/NGC-3587</p> <p>Imaging Window: <b>08:39 – 02:20</b>            Transit: <b>10:28   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus *x2</b></p> 




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<p><b>Lio Trio of Galaxies</b>          Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxies</b>          Constellation: <b>Leo</b>          Coordinates:          Frame 01          RA: 11hr 19' 57" DEC: 13° 32' 15"          Frame 02          RA: 11hr 19' 57" DEC: 13° 04' 57"</p> <p>Close Star: <b>SAO-15384</b>          Catalog Objects: <a href="#">NGC-3628</a>, 3623, M-65</p> <p>Imaging Window: <b>08:39 – 01:34</b>          Transit: <b>10:33   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer Composite!</b></p>  <p style="font-size: small;">Leo Trio of Galaxies (NGC-3628, NGC-3623, NGC-3627)          James Yoder (Denton 2020/09/14 20:00:00 UT) Location: Chandler, AZ          Constellation: Leo the Lion          Config: C11-HD (8.7 Reducer)   Filter: Reducer/Stoplight   Camera: QHY128C          RA = 11h 19m 45s DEC = +13deg 16' 38.0" Size = 16.7 x 7.7 arcmin (Orientation 20deg E of N) Pixel scale = 0.579 arcsec/pixel (FL = 1900mm)          Exposure: 100s (2000img/Frame) Gain: 1200 (Offset: 100)</p>
<p><b>NGC-3628</b>          Config:  C11HD ZWO6200MC           Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Leo</b>          Coordinates:  <b>11h 19' 44"</b>  <b>13° 28' 28"</b></p> <p><i>NOTE: M-65/M-66 &amp; NGC-3628 can be combined to create mosaic</i></p> <p>Close Star: <b>SAO-98967</b> (Regulus)          Catalog Objects: <a href="#">NGC-3628</a>,</p> <p>Imaging Window: <b>08:39 – 01:34</b>          Transit: <b>10:33   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC-3628          Edge-On Galaxy          James Yoder          2015.04.19</p>



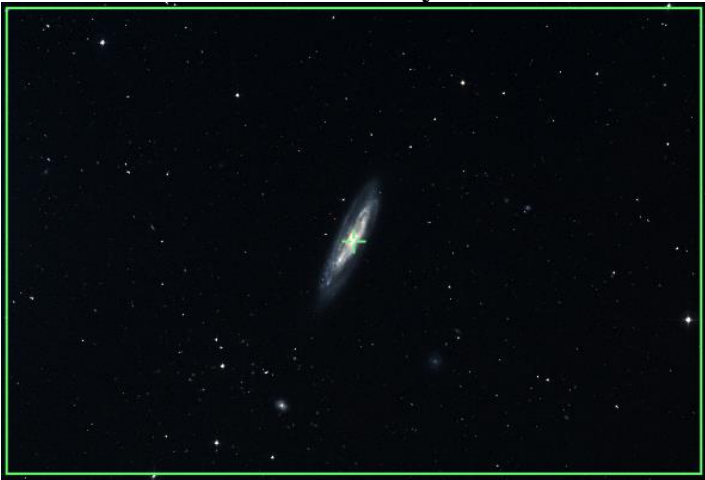
# Prospective Imaging Objects – April 08 2024

<p><b>M-65, M-66</b>            Config:  C11HD ZWO6200MC             Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>11h 19' 44"</b>  <b>13° 04' 06"</b>  <i>NOTE: M-65/ M-66 &amp; NGC-3628 can be combined to create mosaic</i></p> <p>Close Star: <b>SAO-98967</b> (Regulus)            Catalog Objects: <a href="#">M-65</a>/NGC-3623, M-66/NGC-3627</p> <p>Imaging Window: <b>08:39 – 01:33</b>            Transit: <b>10:33   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">M-065, M066 Spiral Galaxies</p> <p style="text-align: right; font-size: small;">James Yoder 2015 05 19</p>
<p><b>Arp-214</b> (NGC-3718, NGC-3729)            Config:  C11HD ZWO6200MC             Type: <b>Galaxy Pair</b></p> <p>Constellation: <b>Ursa Major</b>            Coordinates:  <b>11h 33' 09"</b>  <b>53° 05' 02"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda)            Catalog Objects: <a href="#">NGC-3718</a></p> <p>Imaging Window: <b>08:39 – 02:39</b>            Transit: <b>10:46   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small;">NGC-3718, NGC-3729            Constellation: Ursa Major            RA = 11h 33m 10.00s, DEC = +53deg 05' 44.899", Size = 45 x 30.4 arcmin, Pixel scale = 0.446 arcsec/pixel, FL = 2.720mm</p> <p style="text-align: right; font-size: x-small;">James Yoder 2020-02-16            Equipment: Chandler A2            Config:  C-11 HD Astromark CLS-CCD  ORV128c             Exposure Info: 1540ms/Star (Gain: 320)   Offset: 180</p>
<p><b>Copeland's Septet</b> (NGC-3746, 3748, 3750, 3751, 3753, 3754)            Config:  C11HD ZWO6200MC             Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>11h 33' 09"</b>  <b>53° 05' 02"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola)            Catalog Objects: <a href="#">NGC-3746</a>, 3748, 3750, 3751, 3753, 3754/HCG-57</p> <p>Imaging Window: <b>08:39 – 02:12</b>            Transit: <b>10:51   79°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – April 08 2024

<p><b>Abell 1367</b>(NGC-3861, et al.) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Leo</b> Coordinates: <b>11h 44' 40"</b> <b>19° 56' 32"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">NGC-3861</a>, 3842, dozens of others.</p> <p>Imaging Window: <b>08:39 – 02:15</b> Transit: <b>10:58   77°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;"><small>Galaxy Cluster Abell-1367 (ARCO-1367) Copyright © 2024 by Starizona</small></p>
<p><b>Wild's Triplet</b>(Arp-248) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Ursa Major</b> Coordinates: <b>11h 46' 41"</b> <b>-03° 51' 46"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda) Catalog Objects: <a href="#">Arp-248</a>, PGC- 36742, 36733, 36723</p> <p>Imaging Window: <b>*08:39 – 01:56</b> Transit: <b>11:00   53°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-109</b>(NGC-3992) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Ursa Major</b> Coordinates: <b>11h 57' 34"</b> <b>53° 20' 59"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda) Catalog Objects: <a href="#">NGC-3992</a></p> <p>Imaging Window: <b>08:39 – 03:04</b> Transit: <b>11:11   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 



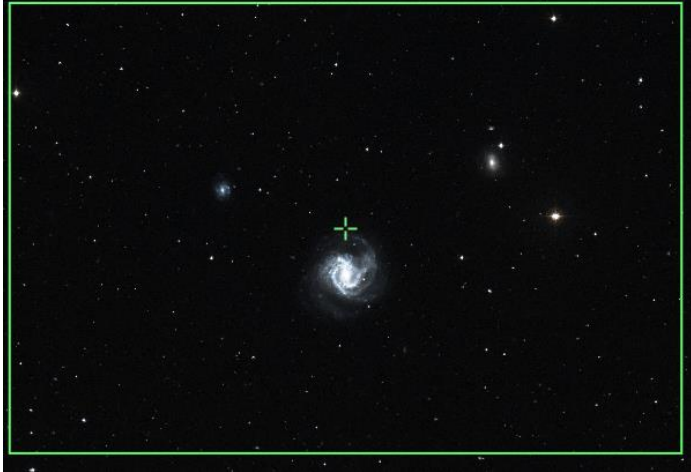
# Prospective Imaging Objects – April 08 2024

<p><b>NGC-4027</b>(PGC-37773) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Corvus</b> Coordinates: <b>11h 59' 31"</b> <b>-19° 15' 57"</b></p> <p>Close Star: <b>SAO-157923</b> (Spica) Catalog Objects: <a href="#">NGC-4027</a></p> <p>Imaging Window: *<b>09:13 – 01:17</b> Transit: <b>11:13</b>   <b>37°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p>A photograph of the NGC-4027 galaxy, a small, irregularly shaped galaxy with a bright central core and a diffuse, irregular structure. It is set against a dark background filled with numerous stars of varying brightness.</p>
<p><b>Antennae Galaxies</b> (Arp-244) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Pair</b></p> <p>Constellation: <b>Corvus</b> Coordinates: <b>12h 01' 54"</b> <b>-18° 53' 08"</b></p> <p>Close Star: <b>SAO-157923</b> (Spica) Catalog Objects: <a href="#">Arp-244/</a> NGC-4038, NGC-4039</p> <p>Imaging Window: *<b>09:19 – 01:23</b> Transit: <b>11:15</b>   <b>38°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p>A photograph of the Antennae Galaxies (Arp-244), a pair of interacting galaxies. The galaxies are seen in the process of merging, with long, curved tails of stars and gas extending from their cores, resembling antennae. The background is filled with stars.</p>
<p><b>M-98</b> (NGC-4192) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 13' 48"</b> <b>14° 53' 58"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">M-98</a>/NGC-4192</p> <p>Imaging Window: <b>08:39 – 02:31</b> Transit: <b>11:27</b>   <b>72°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p>A photograph of the M-98 galaxy (NGC-4192), a barred spiral galaxy. It features a prominent, bright central bar and several distinct spiral arms. The galaxy is oriented vertically in the image. The background is dark with scattered stars.</p>

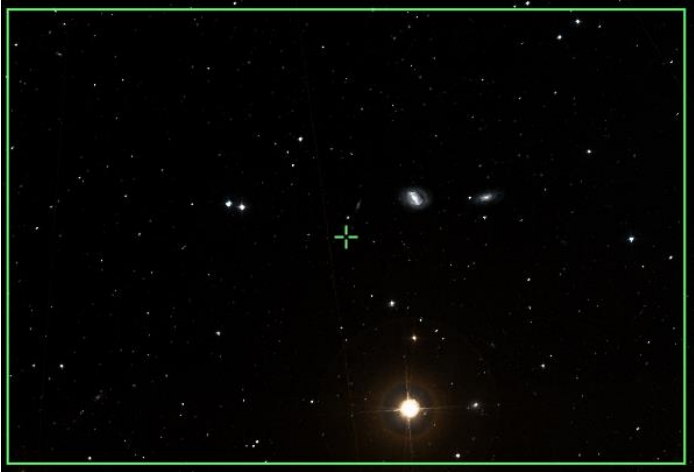


# Prospective Imaging Objects – April 08 2024

<p><b>NGC-4236</b> (UGC 7306) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Draco</b> Coordinates: <b>12h 16' 42"</b> <b>69° 28' 00"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth) Catalog Objects: <a href="#">NGC-4236</a>/UGC-7306</p> <p>Imaging Window: <b>08:39 – 02:48</b> Transit: <b>11:30   54°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;"><small>NGC 4236 (UGC 7306) - Draco</small></p>
<p><b>Silver Needle</b> (NGC-4244) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Canes Venatici</b> Coordinates: <b>12h 17' 30"</b> <b>37° 48' 28"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">NGC-4244</a>/UGC-7322</p> <p>Imaging Window: <b>08:39 – 03:16</b> Transit: <b>11:30   86°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>St. Katherines Wheel</b> (M99/NGC4254) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 18' 49"</b> <b>14° 25' 03"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">M-99</a>/NGC-4254 Imaging Window: <b>08:39 – 02:35</b> Transit: <b>11:32   71°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – April 08 2024




<p><b>Galaxy Group 106</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Canes Venatici</b>            Coordinates:  <b>12h 17' 12"</b>  <b>47° 13' 33"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda)            Catalog Objects: <a href="#">M-106</a>, NGC 4248, 4217, 4232, 4331            Imaging Window: <b>08:39 – 03:25</b>            Transit: <b>11:32   76°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>M-106</b>(NGC-4258)            Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Canes Venatici</b>            Coordinates:  <b>12h 17' 12"</b>  <b>47° 13' 33"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda)            Catalog Objects: <a href="#">M-106</a>, NGC 4248, 4217, 4232, 4331            Imaging Window: <b>08:39 – 03:25</b>            Transit: <b>11:32   76°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>III Galaxy</b> (M61/NGC4303)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Face-On Spiral Galaxy</b></p> <p>Constellation: <b>Virgo</b>            Coordinates:  <b>12h 21' 55"</b>  <b>04° 31' 28"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)            Catalog Objects: <a href="#">M-61</a>/NGC-4303, NGC-4292, NGC-4301            Imaging Window: <b>09:10 – 02:06</b>            Transit: <b>11:35   61°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – April 08 2024


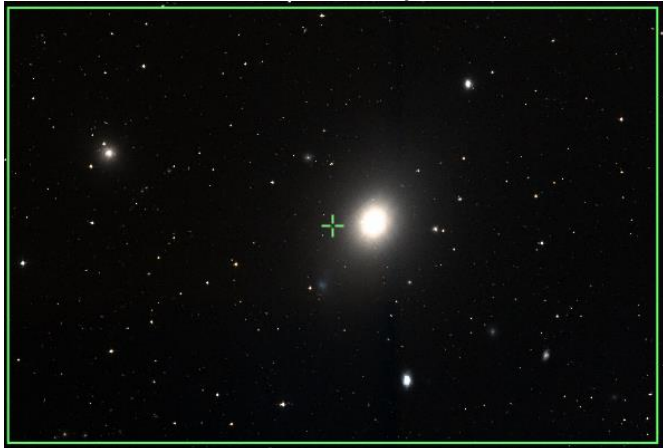

<p><b>Winnecke 4</b><sup>(M-40)</sup>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Star Pair</b></p> <p>Constellation: <b>Ursa Major</b>            Coordinates:  <b>12h 21' 22"</b>  <b>58° 03' 05"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda)            Catalog Objects: <a href="#">M-40</a>, NGC-4290,            NGC-4284            Imaging Window: <b>08:39 – 03:25</b>            Transit: <b>11:35</b>   <b>65°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-100</b><sup>(NGC-4303)</sup>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Face-On Spiral Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b>            Coordinates:  <b>12h 22' 28"</b>  <b>15° 42' 40"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)            Catalog Objects: <a href="#">M-100</a>/NGC-4321,            NGC-4312, 4328, 4322, UGC-7425, IC-783A,            Imaging Window: <b>08:39 – 02:43</b>            Transit: <b>11:36</b>   <b>73°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-4361</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Corvus</b>            Coordinates:  <b>12h 24' 31"</b>  <b>-18° 47' 03"</b></p> <p>Close Star: <b>SAO-157176</b> (Gienah Corvi)            Catalog Objects: <a href="#">NGC-4361</a>            Imaging Window: <b>*09:36 – 01:45</b>            Transit: <b>11:37</b>   <b>38°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p><small>Planetary Nebula NGC-6572            Configuration:  C11HD ZWO6200MC             Coordinates: RA=15h 24m 31.5s Dec=-18d 47m 03s            Imaging Window: *09:36 - 01:45            Transit: 11:37   38°</small></p>






# Prospective Imaging Objects – April 08 2024

<p><b>Markarian Chain (M-84 Et. Et.)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxy cluster</b></p> <p>Constellation: <b>Virgo</b>            Coordinates:  <b>12h 26' 29"</b>  <b>12° 52' 22"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)            Catalog Objects: <a href="#">M-84</a>/NGC-4374, NGC-4388, 4425, 4402, M-86/NGC4406, 4438, 4435, and more            Imaging Window: <b>08:45 – 02:37</b>            Transit: <b>11:38   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>Markarian Chain 2</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxy cluster</b>            Constellation: <b>Virgo</b>            Coordinates:  <b>12h 35' 40"</b>  <b>12° 33' 22"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)            Catalog Objects: <a href="#">M-84</a>/NGC-4374, NGC-4388, 4425, 4402, M-86/NGC4406, 4438, 4435, and more            Imaging Window: <b>08:45 – 02:37</b>            Transit: <b>11:38   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>Markarian's Chain (M-84)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Galaxy cluster</b></p> <p>Constellation: <b>Virgo</b>            Coordinates:  <b>12h 26' 29"</b>  <b>12° 52' 22"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)            Catalog Objects: <a href="#">M-84</a>/NGC-4374, NGC-4388, 4425, 4402, M-86/NGC4406, 4438, 4435            Imaging Window: <b>08:45 – 02:37</b>            Transit: <b>11:38   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 




# Prospective Imaging Objects – April 08 2024

<p><b>NGC-4449</b> (<a href="#">UGC-7592</a>) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Irregular Galaxy</b></p> <p>Constellation: <b>Canes Venatici</b> Coordinates: <b>12h 28' 11"</b> <b>44° 05' 42"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth) Catalog Objects: <a href="#">NGC-4449/UGC-7592</a> Imaging Window: <b>08:39 – 03:33</b> Transit: <b>11:41   79°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-49</b>(<a href="#">NGC-4472</a>) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Elliptical Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 29' 58"</b> <b>07° 59' 51"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-49/NGC-4472</a> Imaging Window: <b>09:05 – 02:27</b> Transit: <b>11:43   65°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Virgo A</b>(<a href="#">M-87</a>) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Elliptical Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 30' 49"</b> <b>12° 23' 26"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-87/NGC-4486</a> Imaging Window: <b>08:52 – 02:42</b> Transit: <b>11:44   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 



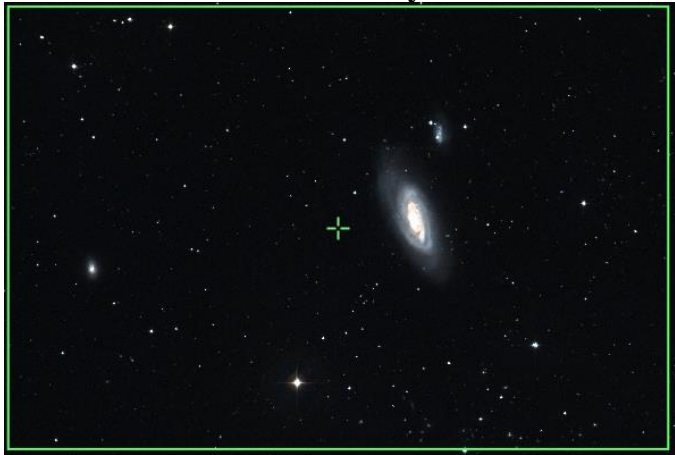
# Prospective Imaging Objects – April 08 2024

<p><b>Cocoon Galaxy</b>(NGC-4490) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Interacting Galaxy Pair</b></p> <p>Constellation: <b>Canes Venatici</b> Coordinates: <b>12h 30' 36"</b> <b>41° 38' 34"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda) Catalog Objects: <a href="#">NGC-4490</a>, NGC-4485</p> <p>Imaging Window: <b>08:39 – 03:33</b> Transit: <b>11:44   82°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p><small>Cocoon Galaxy (NGC-4490 &amp; NGC-4485) Constellation: Canes Venatici RA = 12h 30m 35.96s DEC = +41deg 38' 34.78" Size = 36.1 x 24.3 arcmin Orientation = 0.33deg E of N Pixel scale = 0.440 arcsecond (F1-2758mm) James Yoder   Date(s) 2020-02-02 - 2020-02-07   Location: Chandler, AZ Config: C-11 HD/Blender/Starline   CFW128x Exposure Info: 750mm@5um Gain: 3200   Offset: 180</small></p>
<p><b>Lemon Slice Nebula</b> (IC-3568) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b> Constellation: <b>Camelopardalis</b> Coordinates: <b>12h 33' 14"</b> <b>82° 33' 22"</b></p> <p>Close Star: <b>SAO-8102</b> (Kochab) Catalog Objects: <a href="#">IC-3568</a>/UGC-7731</p> <p>Imaging Window: <b>*08:39 – 04:42</b> Transit: <b>11:46   41°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p><small>Planetary Nebula IC-3568 Constellation: Camelopardalis RA = 12h 33m 14.00s DEC = +82deg 33' 22.00" Size = 21 x 11.0 arcmin Orientation: Nub 0.00° Pixel scale = 0.72 arcsecond (F1-2018mm) James Yoder   Date(s) 2020-02-02 - 2020-02-07   Location: Chandler, AZ Config: C-11 HD/Blender/Starline   CFW128x Exposure Info: 750mm@5um Gain: 3200   Offset: 180</small></p>
<p><b>M-91</b>(NGC-4548) Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 36' 11"</b> <b>14° 20' 51"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-91</a>/NGC4548, NGC-4571</p> <p>Imaging Window: <b>08:51 – 02:52</b> Transit: <b>11:48   71°</b></p>	<p><b>C-11 HD: Focal Reducer</b></p> <p><b>FOV 1.04 x 0.70° - RA 12hr 36' 11", DEC 14° 20' 51"</b></p>  <p><small>James Yoder   Date(s) 2020-02-02 - 2020-02-07   Location: Chandler, AZ Config: C-11 HD/Blender/Starline   CFW128x Exposure Info: 750mm@5um Gain: 3200   Offset: 180</small></p>




# Prospective Imaging Objects – April 08 2024

<p><b>M-91</b>(NGC-4548) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 36' 04"</b> <b>14° 23' 37"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-91</a>/NGC4548, NGC-4571 Imaging Window: <b>08:51 – 02:52</b> Transit: <b>11:48   71°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-89</b>(NGC-4552) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Elliptical Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 35' 43"</b> <b>12° 24' 24"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-89</a>/NGC4552, NGC-4551, NGC-4550, IC-3574, IC-3586 Imaging Window: <b>08:57 – 02:47</b> Transit: <b>11:49   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-4559</b> (UGC-7766) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 35' 58"</b> <b>27° 57' 35"</b></p> <p>Close Star: <b>SAO-44752</b> (Alkaid) Catalog Objects: <a href="#">NGC-4559</a>/UGC-7766 Imaging Window: <b>08:23 – 03:21</b> Transit: <b>11:49   85°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – April 08 2024

<p><b>Siamese Twins</b>(NGC-4567) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Elliptical Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 36' 26"</b> <b>11° 19' 59"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">NGC-4567</a>, NGC-4568, NGC-4564 Imaging Window: <b>09:01 – 02:44</b> Transit: <b>11:49</b>   <b>68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Needle Galaxy</b> (NGC-4565) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Edge-on Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 36' 02"</b> <b>25° 56' 51"</b></p> <p>Close Star: <b>SAO-44752</b> (Alkaid) Catalog Objects: <a href="#">NGC-4565</a>, NGC-4562 Imaging Window: <b>08:26 – 03:18</b> Transit: <b>11:49</b>   <b>83°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-90</b> (NGC-4569) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 37' 11"</b> <b>13° 09' 19"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-90</a>/NGC-4569 IC-3583, NGC-4584 Imaging Window: <b>08:56 – 02:50</b> Transit: <b>11:50</b>   <b>70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 



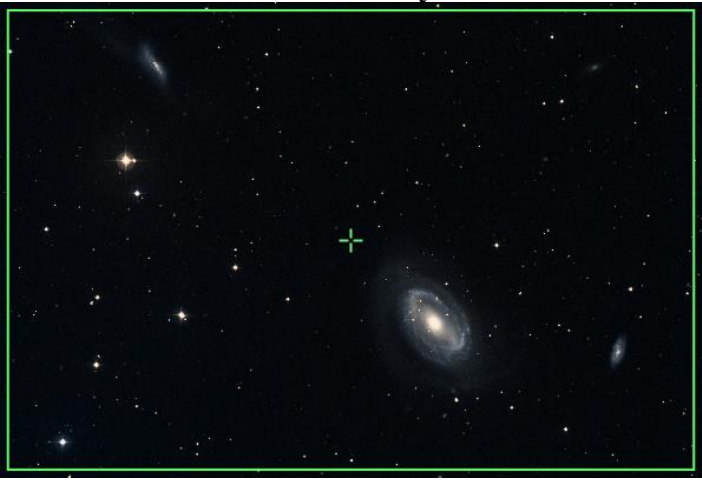
# Prospective Imaging Objects – April 08 2024

<p><b>Galaxy Group 58</b>            Config:   C-11HD   HyperStar  </p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Virgo</b>            Coordinates:  <b>12h 37' 35"</b>  <b>12° 18' 56"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)            Catalog Objects: <a href="#">M-58</a>/NGC-4579            Imaging Window: <b>09:01 – 02:47</b>            Transit: <b>11:51   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="text-align: center;">FOV 3.81 x 2.54° · RA 12hr 37' 35\", DEC 12° 18' 56"</p>
<p><b>M-58</b> (NGC-4579)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Virgo</b>            Coordinates:  <b>12h 37' 44"</b>  <b>11° 49' 06"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)            Catalog Objects: <a href="#">M-58</a>/NGC-4579            Imaging Window: <b>09:01 – 02:47</b>            Transit: <b>11:51   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-68</b> (NGC-4590)            Config:  C11HD  ZWO6200MC </p> <p>Type: <b>Globular Cluster</b>            Constellation: <b>Hydra</b>            Coordinates:  <b>12h 39' 28"</b>  <b>-26° 44' 32"</b></p> <p>Close Star: <b>SAO-180915</b> (Kraz)            Catalog Objects: <a href="#">M-68</a>/NGC-4590</p> <p>Imaging Window: <b>*10:09 – 01:45</b>            Transit: <b>11:52   30°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;">FOV 0.73 x 0.49° · Rayleigh limit 0.49"</p>

# Prospective Imaging Objects – April 08 2024

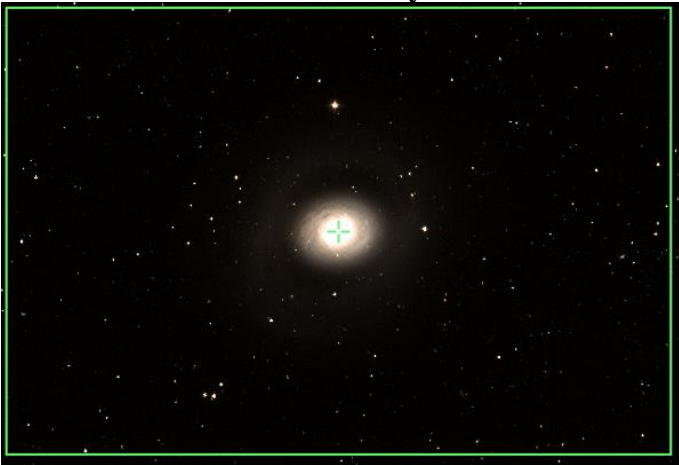

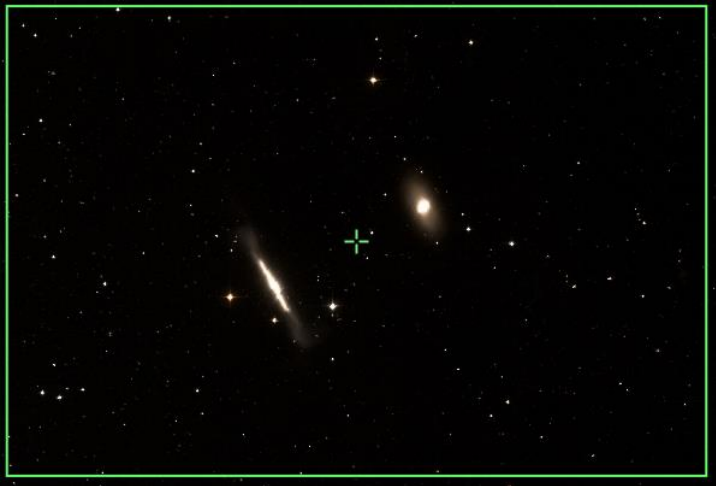
<p><b>Sombrero Galaxy (M-104)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Edge-on Spiral Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 39' 44"</b> <b>-11° 37' 52"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-104</a>/NGC-4594 Imaging Window: *<b>09:41 – 02:07</b> Transit: <b>11:53</b>   <b>45°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p>M104, Sombrero Galaxy <span style="float: right;">James Yoder 2015.01.18</span></p>
<p><b>Whale and Hockey Stick (NGC-4631, NGC-4656)</b> Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Galaxies</b></p> <p>Constellation: <b>Canes Venatici</b> Coordinates: <b>12h 42' 50"</b> <b>32° 20' 54"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">NGC-4631</a>, NGC-4656 Imaging Window: <b>08:22 – 03:35</b> Transit: <b>11:55</b>   <b>89°</b></p>	<p><b>C-11 HD: Focal Reducer</b></p>  <p>Whale and Hockey Stick Galaxies (NGC4631, NGC4656) Constellation: Canes Venatici <span style="float: right;">James Yoder - 2019.04.14 Location: Mesacon Grande, Yuma, AZ Config:  C11  Starizona L.F. Corrector   Blander Skyglow Filter (BVF126)   Exposure Info: 21 frames/total (Gain: 2200)   Offset: 100</span></p>
<p><b>M-59, M-60 group</b> Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 42' 42"</b> <b>11° 40' 33"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">M-59</a>/NGC-4621, M-60/NGC-4649, NGC-4656, 4647, 4638, 4607, 4606 Imaging Window: <b>09:06 – 02:51</b> Transit: <b>11:55</b>   <b>68°</b></p>	<p><b>C-11 HD: Focal Reducer</b></p>  <p>Virgo Cluster of Galaxies <span style="float: right;">James Yoder   Date(s): 2021.04.30 - 2020.07.31   Location: Chandler, AZ Config: C11-HD   9.7 Reducer   Filter: Blander Skyglow, RGB   Camera: ZWO ASI5300 Exposure Info: L=840ms@60min, G=130ms@60min, R=120ms@60min, B=140ms@60min   Total = 12hrs 18min   Gain: 100   Offset: 50   RA = 12h 42m 40.3s, DEC = +11deg 40' 19.7"   Size = 57.3 x 37.7 arcmin   Orientation = -9.2deg E of N   Pixel scale = 0.785 arcsec/pixel   91-1900nm</span></p>

# Prospective Imaging Objects – April 08 2024

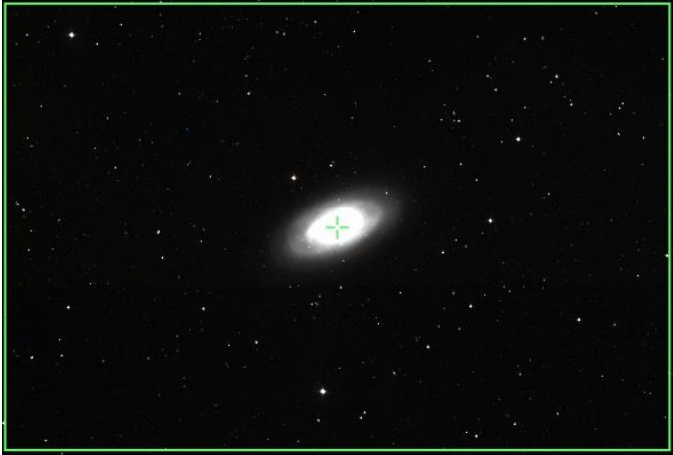
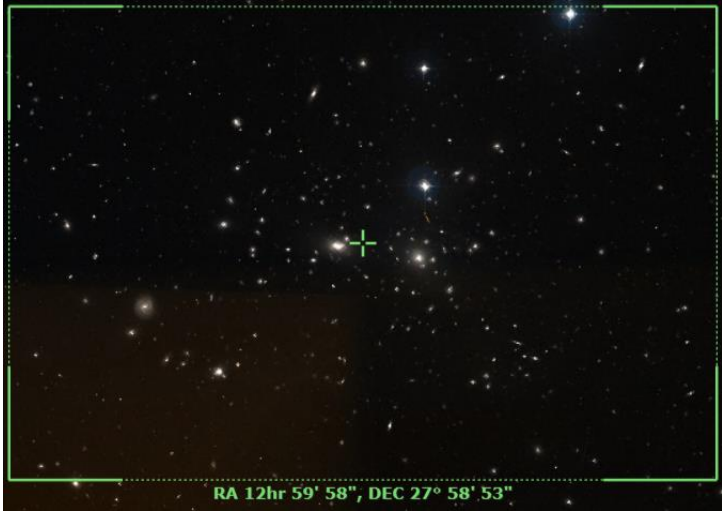

<p><b>TheMice</b> (NGC-4676 A &amp; B) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Interacting Galaxies</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 46' 07"</b> <b>30° 43' 43"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">NGC-4676A &amp; B</a> Imaging Window: <b>08:25 – 03:36</b> Transit: <b>11:59   87°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-4725</b> (PGC-43451) Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Galaxy group</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 50' 55"</b> <b>25° 35' 59"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">NGC-4725</a>, NGC-4712, NGC-4747 Imaging Window: <b>08:41 – 03:32</b> Transit: <b>12:03   82°</b></p>	<p><b>C-11 HD: Focal Reducer</b></p>  <p><small>Galaxy Cluster NGC-4747, NGC-4725, NGC4712 Constellation: Coma Berenices   RA = 12h 50m 40.89s; DEC = -25deg 36' 33.3"   Size = 44.39 x 29.62 arcmin   Orientation: 0deg E of N   Pixel scale = 0.630 arcsec/pixel   FL=1953mm</small></p> <p><small>James Yoder (Dates) 2021.01.02, 2021.01.03   Location: Chandler, AZ Config: C11-HD   0.7 Reducer   Filter: Bander Skyglow   Camera: QHY128C Exposure Info: /96frames/3min   Gain: 3200   Offset: 180</small></p>
<p><b>NGC-4725</b> (PGC-43451) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy group</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 50' 50"</b> <b>25° 35' 23"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">NGC-4725</a>, NGC-4712, NGC-4747 Imaging Window: <b>08:41 – 03:32</b> Transit: <b>12:03   82°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 






# Prospective Imaging Objects – April 08 2024

<p><b>M-94</b> (NGC-4736) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Canes Venatici</b> Coordinates: <b>12h 50' 53"</b> <b>41° 07' 17"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth) Catalog Objects: <a href="#">M-94</a>/NGC-4736 Imaging Window: <b>08:21 – 03:53</b> Transit: <b>12:04   82°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-4731</b> (PGC-43507) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 51' 01"</b> <b>-06° 21' 49"</b></p> <p>Close Star: <b>SAO-157923</b> (Spica) Catalog Objects: <a href="#">NGC-4731</a> Imaging Window: <b>*09:58 – 02:12</b> Transit: <b>12:04   50°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-4762, 4754</b> (PGC-43733) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Edge on Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 52' 35"</b> <b>11° 16' 42"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">NGC-4762</a>, NGC-4754 Imaging Window: <b>09:18 – 03:00</b> Transit: <b>12:06   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – April 08 2024

<p><b>Black Eye Galaxy (M-64)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 56' 44"</b> <b>21° 40' 59"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">M-64</a>/NGC-4826 Imaging Window: <b>08:55 – 03:30</b> Transit: <b>12:10   78°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 
<p><b>Coma Galaxy Cluster (Abell-1656)</b> Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 59' 58"</b> <b>27° 58' 53"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">Abell-1656</a> Imaging Window: <b>08:47 – 03:45</b> Transit: <b>12:13   85°</b></p>	<p><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Coma Galaxy Cluster (Abell-1656)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>13h 00' 06"</b> <b>28° 00' 31"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">Abell-1656</a> Imaging Window: <b>08:47 – 03:45</b> Transit: <b>12:13   85°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 

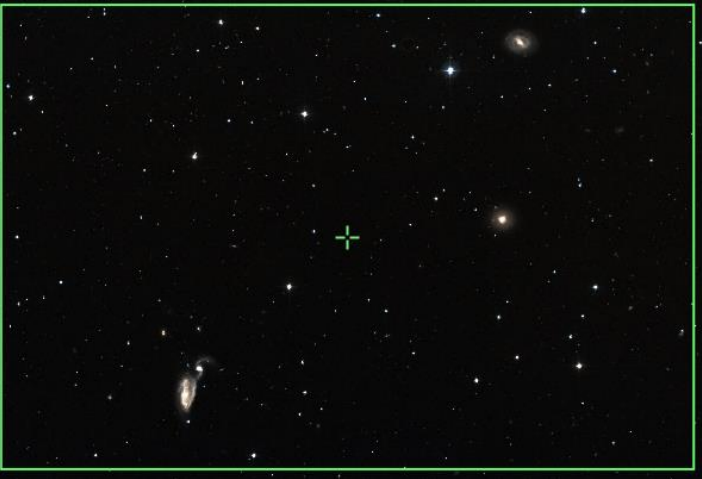


# Prospective Imaging Objects – April 08 2024

<p><b>M-53</b> (NGC-5024)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b>            Constellation: <b>Coma Berenices</b>            Coordinates:  <b>13h 12' 55"</b>  <b>18° 10' 11"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola)            Catalog Objects: <a href="#">M-53</a>/NGC-5024</p> <p>Imaging Window: <b>09:19 – 03:39</b>            Transit: <b>12:26   75°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">             Globular Cluster Messier 53              Constellation: Coma Berenices              RA = 13h 12m 55.7s DEC = +18deg 10' 27.0" Size = 17.7 x 27.0 arcmin (Observer: 0.6kg, f=0.7m, Focal width = 0.452 arc/px) (F1-0720mm)              James Yoder   Dates: 2017-01-21 - 2017-01-21 Location: Chandler, AZ              Config: C-11 HD (Black) Single Filter (081720s)              Exposure: 300s @900000iso Gain: 1200 (Offset: 100)           </p>
<p><b>NGC-5033</b> (PGC-45948)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Canes Venatici</b>            Coordinates:  <b>13h 13' 28"</b>  <b>36° 35' 36"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth)            Catalog Objects: <a href="#">NGC-5033</a>/PGC-45948</p> <p>Imaging Window: <b>08:48 – 04:11</b>            Transit: <b>12:26   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Sunflower Galaxy</b> (M-63)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Canes Venatici</b>            Coordinates:  <b>13h 15' 15"</b>  <b>42° 04' 41"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth)            Catalog Objects: <a href="#">M-63</a>/NGC-5055,            UGC-8313</p> <p>Imaging Window: <b>08:45 – 04:19</b>            Transit: <b>12:29   81°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">             M-63              Sunflower Galaxy              James Yoder              2018.04.15           </p>




# Prospective Imaging Objects – April 08 2024

<p><b>NGC-5053</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>13h 16' 27"</b> <b>17° 41' 55"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">NGC-5053</a> Imaging Window: <b>09:24 – 04:39</b> Transit: <b>12:29   74°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p><small>Globular Cluster NGC-5053 Constellation: Coma Berenices RA = 13h 16m 27.26s, DEC = 17deg 41' 55.23"   Size = 37.7 x 27.8 arcmin   Orientation: 0 deg E of N   Pixel scale = 0.452 arcseconds   FL = 2720mm James Yoder   Date(s): 2022/04/21 - 2022/04/21   Location: Chandler, AZ   Config: C-11 HD   Filter(s): None   Filter: 00111361   Exposure Info: 1000ms/20ms   Gain: 1200   DPOSS: 140</small></p>
<p><b>Whirlpool Galaxy (M-51)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Interacting Galaxies</b></p> <p>Constellation: <b>Canes Venatici</b> Coordinates: <b>13h 29' 53"</b> <b>47° 11' 44"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth) Catalog Objects: <a href="#">M-51</a>/NGC-5194, NGC-5195 Imaging Window: <b>08:56 – 04:39</b> Transit: <b>12:43   76°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p><small>M-51 Whirlpool Galaxy James Yoder 2017.04.04</small></p>
<p><b>M-3 (NGC-5272)</b> Config:  C11HD <b>Barlow x2</b> ZWO6200MC </p> <p>Type: <b>Globular Cluster</b> Constellation: <b>Canes Venatici</b> Coordinates: <b>13h 42' 11"</b> <b>28° 22' 34"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-3</a>/NGC-5272</p> <p>Imaging Window: <b>09:28 – 04:39</b> Transit: <b>12:55   85°</b></p>	<p><b>C-11 HD: Primary Focus *x2</b></p>  <p><small>Globular Cluster M-3 Constellation: Canes Venatici RA = 13h 42m 11.11s, DEC = 28deg 22' 34.11"   Size = 11.1 x 11.1 arcmin   Orientation: 0 deg E of N   Pixel scale = 0.452 arcseconds   FL = 2720mm James Yoder   Date(s): 2017/04/04   Location: Chandler, AZ   Config: C-11 HD   Filter(s): None   Filter: 00111361   Exposure Info: 1000ms/20ms   Gain: 1200   DPOSS: 140</small></p>




# Prospective Imaging Objects – April 08 2024

<p><b>Heron Galaxy</b> (NGC-5395) et al. Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxies</b></p> <p>Constellation: <b>Canes Venatici</b> Coordinates: <b>13h 57' 46"</b> <b>37° 35' 31"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">NGC-5395</a>, NGC-5394, NGC-5380, NGC-5378 Imaging Window: <b>09:32 – 04:39</b> Transit: <b>01:11   86°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Pinwheel Galaxy</b> (M-101) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Face-on Spiral Galaxy</b></p> <p>Constellation: <b>Ursa Major</b> Coordinates: <b>14h 03' 54"</b> <b>54° 22' 44"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth) Catalog Objects: <a href="#">M-101</a>/NGC-5457, NGC-5477 Imaging Window: <b>09:29 – 04:39</b> Transit: <b>01:16   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; margin-top: 5px;">M 101 (Pinwheel) Galaxy with Supernova Copyright © 2014 by Starizona. All rights reserved. This image is for personal use only. No part of this image may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage or retrieval system, without the prior written permission of Starizona.</p>
<p><b>NGC-5466</b> Config:  C11HD <b>Barlow x2</b> ZWO6200MC </p> <p>Type: <b>Globular Cluster</b> Constellation: <b>Bootes</b> Coordinates: <b>14h 05' 27"</b> <b>28° 32' 06"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">NGC-5466</a></p> <p>Imaging Window: <b>09:51 – 04:39</b> Transit: <b>01:18   85°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; margin-top: 5px;">Globular Cluster NGC 5466 Copyright © 2014 by Starizona. All rights reserved. This image is for personal use only. No part of this image may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage or retrieval system, without the prior written permission of Starizona.</p>


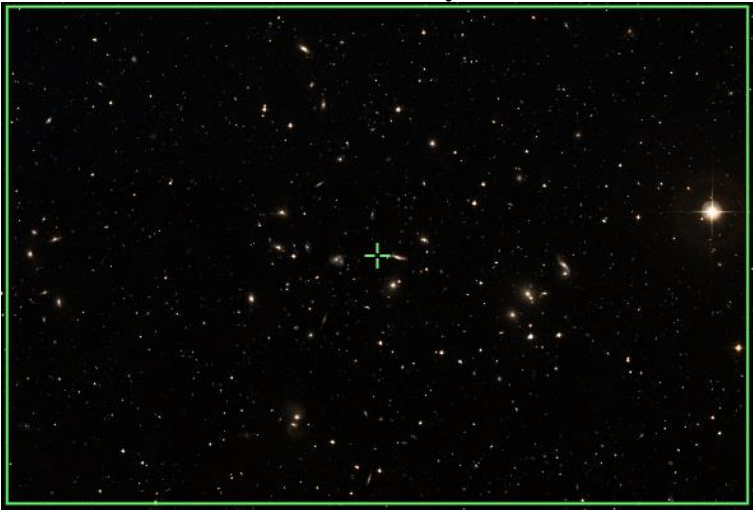
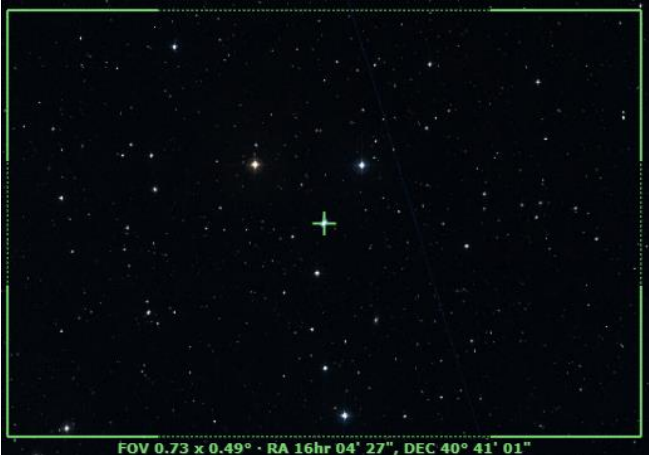
# Prospective Imaging Objects – April 08 2024

<p><b>Spindle Galaxy (M-102)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Draco</b> Coordinates: <b>15h 06' 29"</b> <b>55° 45' 49"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth) Catalog Objects: <a href="#">M-102</a> Imaging Window: <b>10:33 – 04:39</b> Transit: <b>02:19   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Spindle Galaxy (M-102/NGC-5866) Constellation: Spinal Galaxy in Draco RA = 15h 06m 32.2s DEC = +55deg 46' 23.7" Size = 36.8 x 28.8 arcmin Orientation: 370deg E of N Pixel scale = 0.446 arcsec/pixel F1-2000hms James Webb   Date: 2024-03-20   Location: Chandler, AZ   Config:  C-11 HD Baader Skyglow Filter   QHY128C   Exposure Info: 140frames@5min Gain: 3200 Offset: 180</p>
<p><b>NGC-5905, 5908</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxies</b></p> <p>Constellation: <b>Drao</b> Coordinates: <b>15h 16' 07"</b> <b>55° 28' 10"</b></p> <p>Close Star: <b>SAO-28737</b> (Mizar) Catalog Objects: <a href="#">NGC-5905</a>, 5908 Imaging Window: <b>10:42 – 04:39</b> Transit: <b>02:28   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Galaxies NGC-5905, NGC-5908 Constellation: Draco the dragon RA = 15h 16m 35.6s DEC = +55deg 29' 00" Size = 29.7° x 19.8 arcmin Pixel scale = 0.446 arcsec/pixel James Webb   Location: Chandler, AZ   2024-03-20 Config:  C-11 HD Baader Skyglow Filter   QHY128C   Exposure Info: 160frames@5min Gain: 3200 Offset: 180</p>
<p><b>Splinter Galaxy (NGC-5907)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Drao</b> Coordinates: <b>15h 15' 54"</b> <b>56° 19' 49"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">NGC-5907</a> Imaging Window: <b>10:43 – 04:39</b> Transit: <b>02:28   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Splinter Galaxy (NGC-5907) Constellation: Drao James Webb   Location: Chandler, AZ   2024-03-20 Config:  C-11 HD Baader Skyglow Filter   QHY128C   Exposure Info: 160frames@5min Gain: 3200 Offset: 180</p>

# Prospective Imaging Objects – April 08 2024




<p><b>M-5 (NGC-5904)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Serpens</b>            Coordinates:  <b>15h 18' 34"</b>  <b>02° 05' 00"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)            Catalog Objects: <a href="#">M-5</a>/NGC-5904            Imaging Window: <b>12:16 – 04:39</b>            Transit: <b>02:31   59°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Draco Trio (NGC-5985,5982,5981)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxies</b></p> <p>Constellation: <b>Drao</b>            Coordinates:  <b>15h 38' 20"</b>  <b>59° 22' 56"</b></p> <p>Close Star: <b>SAO-28737</b> (Mizar)            Catalog Objects: <a href="#">NGC-5985</a>,            NGC-5982, NGC-5981            Imaging Window: <b>11:10 – 04:39</b>            Transit: <b>02:52   64°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Sharpless 2-1 (SH2-1)</b>            Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Scorpius</b>            Coordinates:  <b>15h 56' 09"</b>  <b>-25° 40' 29"</b></p> <p>Close Star: <b>SAO-208078</b> (Wei)            Catalog Objects: <a href="#">SH2-1</a>/LBN-1093</p> <p>Imaging Window: <b>*01:28 – 04:39</b>            Transit: <b>03:11   31°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 

# Prospective Imaging Objects – April 08 2024


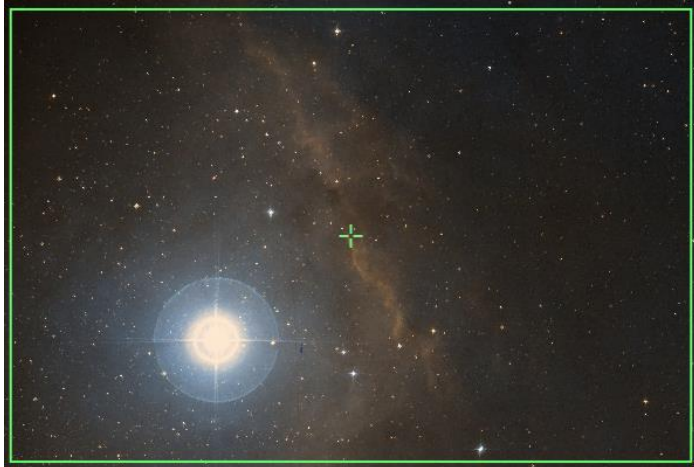

<p><b>Seyfert's Sextet</b> (NGC-6027A-E)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Group &amp; One</b></p> <p>Constellation: <b>Serpens</b>            Coordinates:  <b>15h 59' 46"</b>  <b>20° 47' 27"</b></p> <p>Close Star: <b>SAO-83893</b>            Catalog Objects: <a href="#">NGC-6027A-E</a>,            UGC-10127            Imaging Window: <b>12:00 – 04:39</b>            Transit: <b>03:12   77°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">NGC-6027 (Seyfert's Sextet)  <small>Copyright © Skyline Systems, Inc. All Rights Reserved. Skyline Systems, Inc. is not responsible for any damage or loss of data that may occur while using this software. Skyline Systems, Inc. is not responsible for any damage or loss of data that may occur while using this software.</small></p>
<p><b>Hercules Galaxy Cluster</b>            (Abell-2151)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Hercules</b>            Coordinates:  <b>16h 05' 13"</b>  <b>17° 45' 39"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)            Catalog Objects: <a href="#">Abell-2151</a></p> <p>Imaging Window: <b>11:35 – 04:39</b>            Transit: <b>03:17   74°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-6058</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Hercules</b>            Coordinates:  <b>16h 04' 27"</b>  <b>40° 41' 01"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)            Catalog Objects: <a href="#">NGC-6058</a>            Imaging Window: <b>11:35 – 04:39</b>            Transit: <b>03:17   83°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small; text-align: center;">FOV 0.75 x 0.49° - RA 16hr 04' 27", DEC 40° 41' 01"</p>






# Prospective Imaging Objects – April 08 2024

<p><b>Tadpole Galaxy (Arp-188)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Draco</b> Coordinates: <b>16h 06' 04"</b> <b>55° 26' 07"</b></p> <p>Close Star: <b>SAO-28737</b> (Mizar) Catalog Objects: <a href="#">Arp-188</a>, PGC-57087, 57114, 57108</p> <p>Imaging Window: <b>11:33 – 04:39</b> Transit: <b>03:18   68°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p><small>Tadpole Galaxy (ARP-188) Constellation: Draco the dragon (RA: 16h 06m 04.0s, DEC: +55deg 26' 07.7") Size = 41.8 x 27.9 arcmin (Observation: 378deg E of N, Pixel scale = 0.446 arcsec/pixel) James VanDerLinden 2020-05-17   Location: Mesaero Grande Teahall, AZ   Config:  C-11 HD Primary Focus   3rd Filter   QHY128L   F1   200s   Exposure: 180s   180frames/Frame   Gain: 1200   Offset: 180</small></p>
<p><b>White Eyed Pea (IC-4593)</b> Config:  C11HD <b>Barlow x2</b> ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Hercules</b> Coordinates: <b>15h 11' 45"</b> <b>12° 03' 45"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">IC-4593</a></p> <p>Imaging Window: <b>12:34 – 04:39</b> Transit: <b>03:24   69°</b></p>	<p><b>C-11 HD: Primary Focus *x2</b></p>  <p><small>White Eyed Pea (IC-4593) Constellation: Hercules (RA: 15h 11m 45s, DEC: 12deg 03' 45") Size = 1.5 x 1.5 arcmin (Observation: 178deg E of N, Pixel scale = 0.446 arcsec/pixel) James VanDerLinden 2020-05-17   Location: Mesaero Grande Teahall, AZ   Config:  C-11 HD Primary Focus   3rd Filter   QHY128L   F1   200s   Exposure: 180s   180frames/Frame   Gain: 1200   Offset: 180</small></p>
<p><b>Blue Horshead (IC-4592)</b> Config: <b>C11-HD   HS  </b> <b>ZWO6200MC</b></p> <p>Type: <b>Bright Nebula</b></p> <p>Constellation: <b>Scorpius</b> Coordinates: <b>16h 14' 15"</b> <b>-19° 17' 16"</b></p> <p>Close Star: <b>SAO-184415</b> (Antares) Catalog Objects: <a href="#">IC-4592</a></p> <p>Imaging Window: <b>*01:17 – 04:39</b> Transit: <b>03:25   37°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p>  <p><small>Blue Horse Nebula (IC-4592) Constellation: Scorpius (RA: 16h 14m 15.0s, DEC: -19deg 17' 15.9") Size = 3.45deg x 2.34deg (Observation: 178deg E of N, Pixel scale = 2.37 arcsec/pixel) (F1 = 020min) James VanDerLinden 2020-05-21   Location: Mesaero Grande Teahall, AZ   Config:  C-11 HD HyperStar V4   3rd Filter   QHY128L   Exposure: 180s   200frames/Frame   Gain: 1200   Offset: 180</small></p>




# Prospective Imaging Objects – April 08 2024

<p><b>M-80</b> (NGC-6093) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Scorpius</b> Coordinates: <b>16h 17' 02"</b> <b>-22° 58' 28"</b></p> <p>Close Star: <b>SAO-184415</b> (Antares) Catalog Objects: <a href="#">M-80</a>/NGC-6093 Imaging Window: *<b>01:20 – 04:39</b> Transit: <b>03:29   34°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">             Globular Cluster M-80              Constellation: Scorpius              RA = 16h 17m 02.0s, Dec = -22deg 58' 28.1"   Size = 17.7 x 27.0 arcmin   Orientation: 0 deg E of N   Pixel scale = 0.997 arcsec/pixel   FL=2723mm              James Yoder   Date(s) 2022-04-02 - 2022-04-08   Location: Chandler, AZ                Config: C-11 HD, Starline, Ringline - (OPT) 12k                Exposure Info: 300img/30min   Gain: 3200   Offset: 180         </p>
<p><b>SH2-9</b> Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Scorpius</b> Coordinates: <b>16h 20' 16"</b> <b>-25° 25' 53"</b></p> <p>Close Star: <b>SAO-184415</b> (Antares) Catalog Objects: <a href="#">SH2-9</a> Imaging Window: <b>01:42 – 04:39</b> Transit: <b>03:34   31°</b></p>	<p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b></b></p>  <p style="font-size: small;">             Globular Cluster M-80              Constellation: Scorpius              RA = 16h 17m 02.0s, Dec = -22deg 58' 28.1"   Size = 17.7 x 27.0 arcmin   Orientation: 0 deg E of N   Pixel scale = 0.997 arcsec/pixel   FL=2723mm              James Yoder   Date(s) 2022-04-02 - 2022-04-08   Location: Chandler, AZ                Config: C-11 HD, Starline, Ringline - (OPT) 12k                Exposure Info: 300img/30min   Gain: 3200   Offset: 180         </p>
<p><b>M-4</b> (NGC-6121) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Scorpius</b> Coordinates: <b>16h 23' 35"</b> <b>-26° 31' 29"</b></p> <p>Close Star: <b>SAO-184415</b> (Antares) Catalog Objects: <a href="#">M-4</a>/NGC-6121 Imaging Window: *<b>01:53 – 04:39</b> Transit: <b>03:36   30°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">             Globular Cluster Messier 4              Constellation: Scorpius              RA = 16h 23m 35.0s, Dec = -26deg 31' 29.4"   Size = 17.8 x 27.0 arcmin   Orientation: 0 deg E of N   Pixel scale = 0.952 arcsec/pixel   FL=2723mm              James Yoder   Date(s) 2022-04-02 - 2022-04-29   Location: Chandler, AZ                Config: C-11 HD, Starline, Ringline, Filter - (OPT) 12k                Exposure Info: 375img/30min   Gain: 3200   Offset: 180         </p>


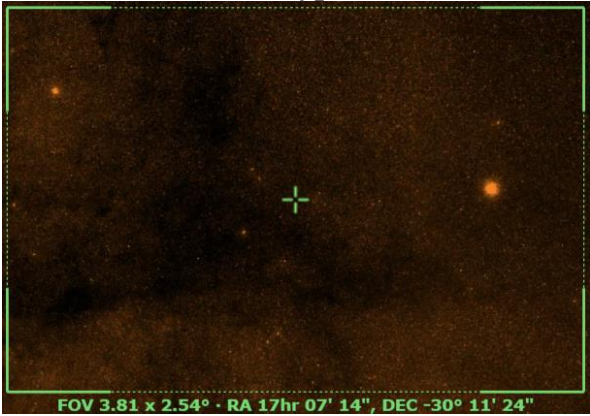
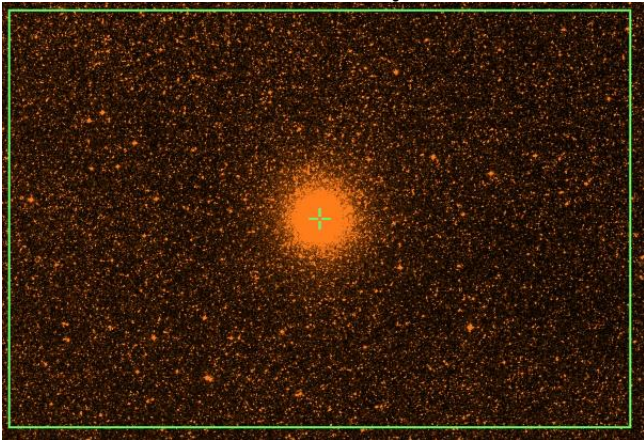
# Prospective Imaging Objects – April 08 2024

<p><b>Ophiuchus Complex (IC-4604)</b>            Config: C11-HD   HS   ZWO6200MC            Composite with M-4            Type: <b>Bright Nebula</b>            Constellation: <b>Scorpius</b>            Coordinates:            Frame 01            RA: <b>16hr 26' 46"</b> DEC: <b>-24° 08' 13"</b>            Frame 02            RA: <b>16hr 26' 46"</b> DEC: <b>-26° 14' 42"</b></p> <p>Close Star: <b>SAO-184415</b> (Antares)            Catalog Objects: <a href="#">IC-4604</a></p> <p>Imaging Window: <b>*01:25 – 04:39</b>            Transit: <b>03:38   33°</b></p>	<p><b>C-11 HD: HyperStar v4 Composite!</b></p>  <p><small>Ophiuchus Complex Region            Constellation: Ophiuchus and Scorpius            RA: 16h 26m 46.00s DEC: -24° 08' 13.00" Field size: 1.0° x 0.8° (HyperStar v4)            Date: 2024-03-20 21:00:00 UTC Exposure: 15.000000s Filter: HS (0.75µm) Gain: 1.000000 Offset: 0.000000</small></p>
<p><b>Abell-39 (PK 47+42.1)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Hercules</b>            Coordinates:  <b>16h 27' 34"</b>  <b>27° 54' 29"</b></p> <p>Close Star: <b>SAO-84951</b> (Sarin)            Catalog Objects: <a href="#">Abell-39</a>/PK 47+42.1            Imaging Window: <b>12:16 – 4:39</b>            Transit: <b>03:44   84°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p><small>Planetary Nebula Abell-39            Constellation: Hercules            RA: 16h 27m 34.00s DEC: 27° 54' 29.00" Field size: 0.8° x 0.8° (Primary Focus)            Date: 2024-03-20 21:00:00 UTC Exposure: 15.000000s Filter: HS (0.75µm) Gain: 1.000000 Offset: 0.000000</small></p>
<p><b>M-107 (NGC-6171)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Ophiuchus</b>            Coordinates:  <b>16h 32' 32"</b>  <b>-13° 03' 11"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi)            Catalog Objects: <a href="#">M-107</a>/NGC-6171            Imaging Window: <b>*01:09 – 04:39</b>            Transit: <b>03:45   44°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p><small>Globular Cluster M-107            Constellation: Ophiuchus            RA: 16h 32m 32.00s DEC: -13° 03' 11.00" Field size: 1.0° x 1.0° (Primary Focus)            Date: 2024-03-20 21:00:00 UTC Exposure: 15.000000s Filter: HS (0.75µm) Gain: 1.000000 Offset: 0.000000</small></p>


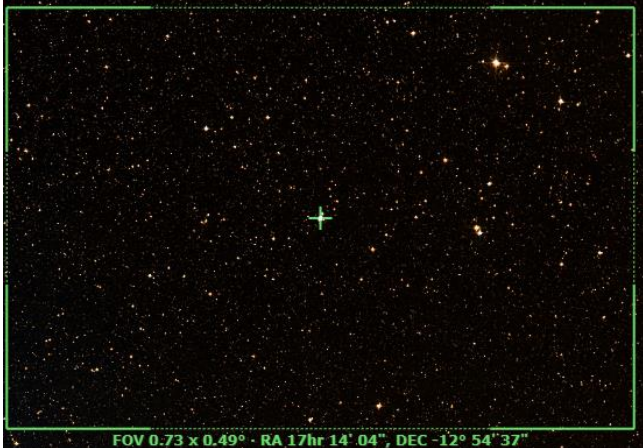

# Prospective Imaging Objects – April 08 2024

<p><b>Hercules Cluster</b>(M-13) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Hercules</b> Coordinates: <b>16h 41' 41"</b> <b>36° 27' 39"</b></p> <p>Close Star: <b>SAO-067174</b> (Vega) Catalog Objects: <a href="#">M-13</a>/NGC-6205 Imaging Window: <b>12:16 – 04:39</b> Transit: <b>03:54   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;"><small>Great Hercules Cluster M-13 (NGC-6205) Constellation: Hercules RA = 16h 41m 41.5s DEC = 36° 27' 39.0" Size = 17.7 x 27.0 arcmin Orientation: 9.8deg E of N. Pixel scale = 0.462 arcsec/pixel Exposure Info: 2023/04/07 21:15:00 Filter: QHY128M Gain: 3000 (QHY61) ISO: 1600</small></p>
<p><b>Turtle Nebula</b> (NGC-6210) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Hercules</b> Coordinates: <b>16h 44' 29"</b> <b>23° 48' 02"</b></p> <p>Close Star: <b>SAO-84411</b> (Kornephoros) Catalog Objects: <a href="#">NGC-6210</a> Imaging Window: <b>12:39 – 04:39</b> Transit: <b>03:57   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;"><small>Planetary Nebula NGC-6210 Constellation: Hercules Coordinates: RA = 16h 44m 29.0s DEC = 23° 48' 02.0" Size = 27.0 x 27.0 arcmin Orientation: 9.2deg E of N. Pixel scale: 0.27 arcsec/pixel   FL 200mm Exposure Info: 2023/04/07 21:15:00 Filter: QHY128M Gain: 3000 (QHY61) ISO: 1600</small></p>
<p><b>M-12</b>(NGC-6218) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Ophiuchus</b> Coordinates: <b>16h 47' 15"</b> <b>-01° 56' 50"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi) Catalog Objects: <a href="#">M-12</a>/NGC-6218 Imaging Window: <b>02:50 – 04:39</b> Transit: <b>04:00   55°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;"><small>Globular Cluster Messier 12 Constellation: Ophiuchus Coordinates: RA = 16h 47m 15.0s DEC = -01° 56' 50.0" Size = 17.7 x 27.0 arcmin Orientation: 9.8deg E of N. Pixel scale = 0.462 arcsec/pixel   FL=200mm Exposure Info: 2023/04/07 21:15:00 Filter: QHY128M Gain: 3000 (QHY61) ISO: 1600</small></p>



# Prospective Imaging Objects – April 08 2024

<p><b>M-10</b>(NGC-6254) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Ophiuchus</b> Coordinates: <b>16h 57' 09"</b> <b>-04° 05' 56"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi) Catalog Objects: <a href="#">M-10</a>/NGC-6254 Imaging Window: <b>02:28 – 04:39</b> Transit: <b>04:09   53°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-62 Region</b> (NGC-6266) Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Ophiuchus</b> Coordinates: <b>16h 25' 36"</b> <b>-23° 27' 00"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi) Catalog Objects: <a href="#">M-62</a>/NGC-6266 Imaging Window: <b>*02:10 – 04:39</b> Transit: <b>04:13   33°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p> 
<p><b>M-62</b>(NGC-6266) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Ophiuchus</b> Coordinates: <b>17h 01' 13"</b> <b>-30° 06' 42"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi) Catalog Objects: <a href="#">M-62</a>/NGC-6266 Imaging Window: <b>*02:10 – 04:39</b> Transit: <b>04:13   33°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – April 08 2024

<p><b>M-19</b>(NGC-6273) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Ophiuchus</b> Coordinates: <b>17h 02' 38"</b> <b>-26° 16' 03"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi) Catalog Objects: <a href="#">M-19</a>/NGC-6273 Imaging Window: *<b>02:32 – 04:39</b> Transit: <b>04:15   30°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Box Nebula</b> (NGC-6309) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Hercules</b> Coordinates: <b>17h 14' 04"</b> <b>-12° 54' 37"</b></p> <p>Close Star: <b>SAO-160332</b> (Sabik) Catalog Objects: <a href="#">NGC-6309</a> Imaging Window: *<b>01:48 – 04:39</b> Transit: <b>04:26   44°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-92</b>(NGC-6341) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Hercules</b> Coordinates: <b>17h 17' 07"</b> <b>43° 08' 13"</b></p> <p>Close Star: <b>SAO-067174</b> (Vega) Catalog Objects: <a href="#">M-92</a>/NGC-6341 Imaging Window: <b>12:46 – 04:39</b> Transit: <b>04:29   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – April 08 2024

<p><b>M-9</b>(NGC-6333)            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Glob Cluster &amp; DNeB</b></p> <p>Constellation: <b>Ophiuchus</b>            Coordinates:  <b>17h 18' 24"</b>  <b>-18° 34' 58"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi)            Catalog Objects: <a href="#">M-9</a>/NGC-6333            Imaging Window: *<b>02:26 – 04:39</b>            Transit: <b>04:31   38°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>M-9</b>(NGC-6333)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Glob Cluster &amp; DNeB</b></p> <p>Constellation: <b>Ophiuchus</b>            Coordinates:  <b>17h 19' 12"</b>  <b>-18° 30' 57"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi)            Catalog Objects: <a href="#">M-9</a>/NGC-6333            Imaging Window: *<b>02:26 – 04:39</b>            Transit: <b>04:31   38°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

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# Prospective Imaging Objects – April 08 2024

## Imaging Summary April 08, 2024

Astronomical Dusk = 08:19

Astronomical Dawn = 04:39

### HyperStar: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Nebula	Nebula	SH2-1	*01:28-04:39	03:11	31	Scorpius: Diffuse Nebula
HyperStar	Nebula	Nebula	IC-4592	*01:17-04:39	03:25	33	Scorpius: Blue Horsehead Nebula

### HyperStar: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Broad Spectrum	Galaxies	IC-2574	08:39 – 01:05	09:42	06	Leo: Galaxy Group 2574
HyperStar	Broad Spectrum	Galaxies	M-96, 95 Et EI	08:59 – 12:56	10:00	07	Leo: Leo Galaxy Group
HyperStar	Broad Spectrum	Gal, PN	M108 & NGC3587	08:39 – 02:17	10:25	08	Ursa Major: M104 and Owl Nebula
HyperStar	Broad Spectrum	Galaxies	Galaxy Group 106	08:39 – 03:25	11:32	15	Canes Venatici: Galaxy Group M-106
HyperStar	Broad Spectrum	Galaxies	Markarian Chain	08:45 – 02:37	11:38	17	Virgo: Galaxy Chain
HyperStar	Broad Spectrum	Galaxies	Markarian Chain2	08:45 – 02:37	11:38	17	Virgo: Galaxy Chain2
HyperStar	Broad Spectrum	Galaxies	Galaxy Group 58	09:01 – 02:47	11:51	22	Virgo Galaxy Group M-58
HyperStar	Broad Spectrum	DN, GC	M-62 Region	*02:10-04:39	04:13	37	Ophiuchus: Globular Cluster and Dark Nebula

# Prospective Imaging Objects – April 08 2024

## Imaging Summary April 08, 2024

Astronomical Dusk = 08:19

Astronomical Dawn = 04:39

### Focal Reducer: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Broad Spectrum	Nebula	SH2-9	01:42 – 04:39	03:34	34	Scorpius: Nebula next to Antares

### Focal Reducer: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Broad Spectrum	Galaxies	M-81 & M-82	08:39 – 12:26	09:09	03	Rot90° Ursa Major: Galaxy Pair Bode's Cigar
Focal Reducer	Broad Spectrum	Galaxies	M-95 & M-96	08:39 – 12:53	09:57	07	Leo: Galaxy Pair
Focal Reducer	Broad Spectrum	Galaxies	M65, et. El.	08:39 – 01:34	10:33	10	Comp2! Leo Trio of galaxies (M65, M66, NGC3628)
Focal Reducer	Broad Spectrum	Galaxies	M-106, NGC4248	08:39 – 03:25	11:32	15	Canes Venatici: Galaxies
Focal Reducer	Broad Spectrum	Galaxies	M-84 et. El.	08:45 – 02:37	11:38	17	Virgo: Markarians Chain
Focal Reducer	Broad Spectrum	Galaxies	M-91, NGC4548	08:51 – 02:52	11:48	19	Coma Berenices: Galaxy Pair
Focal Reducer	Broad Spectrum	Galaxies	NGC4631, 4656	08:22 – 03:35	11:55	23	Canes Venatici: Whale and Hockey Stick
Focal Reducer	Broad Spectrum	Galaxies	M-59, M-60	09:06 – 02:51	11:55	23	Virgo: Galaxy Group
Focal Reducer	Broad Spectrum	Galaxies	NGC-4725 et. El.	08:41 – 03:32	12:03	24	Coma Berenices Galaxy Group
Focal Reducer	Broad Spectrum	Galaxies	Abell-1656	08:47 – 03:45	12:13	26	Coma Berenices: Coma Galaxy Cluster
Focal Reducer	Broad Spectrum	DN, GC	M-9	*02:26-04:39	04:31	39	Ophiuchus: Globular Cluster and Dark Nebula

# Prospective Imaging Objects – April 08 2024

## Imaging Summary April 08, 2024

Astronomical Dusk = 08:19

Astronomical Dawn = 04:39

### Primary Focus: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	PN	NGC-3242	*08:39-11:43	09:38	06	Hydra: Ghost of Jupiter
Primary Focus	Nebula	PN	M-97	08:39 – 02:20	10:28	09	Ursa Major: Owl Nebula
Primary Focus	Nebula	PN	NGC-4361	*09:36-01:45	11:37	16	Corvus: Small Planetary Nebula
Primary Focus	Nebula	PN	IC-3568	*08:39-04:42	11:46	19	Camelopardalis: Lemon Slice Nebula
Primary Focus	Nebula	PN	NGC-6058	11:35 – 04:39	03:17	32	Hercules: Small PN
Primary Focus	Nebula	PN	IC-4593	12:34 – 04:39	03:24	33	Hercules: White Eyed Pea
Primary Focus	Nebula	PN	Abell-39	12:16 – 04:39	03:44	35	Hercules: Perfect Planetary PK 47+42.1
Primary Focus	Nebula	PN	NGC-6210	12:39 – 04:39	03:57	36	Hercules: Small PN Turtle Nebula
Primary Focus	Nebula	PN	NGC-6309	*01:48-04:39	04:26	38	Hercules: Box Nebula
Primary Focus	Nebula	PN					

# Prospective Imaging Objects – April 08 2024

## Imaging Summary April 08, 2024

Astronomical Dusk = 08:19

Astronomical Dawn = 04:39

### Primary Focus: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	NGC-2685	08:39 – 12:05	08:46	02	Ursa Major: Helix Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-2903	08:39 – 12:05	08:46	02	Leo: Med Face On Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-81	08:39 – 12:29	09:09	03	Ursa Major: Bode's Nebula
Primary Focus	Broad Spectrum	Galaxy	M-82	08:39 – 12:26	09:09	04	Ursa Major: Cigar Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-3115	*08:39-12:27	09:19	04	Sextans: Spindle Galaxy
Primary Focus	Broad Spectrum	Galaxy	UGC-5470	08:39 – 12:19	09:22	04	Leo: Powder keg Galaxy UGC-5470
Primary Focus	Broad Spectrum	Galaxies	NGC-3166, 3169	08:39 – 11:54	09:27	05	Sextans: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	Hickson 44	08:39 – 12:52	09:31	05	Leo: Galsxy Group NGC-3190, 3189
Primary Focus	Broad Spectrum	Galaxy	NGC-3184	08:39 – 01:21	09:32	05	Ursa Major: Med Face On Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-3227, 3226	08:39 – 12:53	09:37	06	Leo: Interacting Galaxies
Primary Focus	Broad Spectrum	Galaxy	IC-2574	08:39 – 01:05	09:42	07	Leo: Coddington's Nebula
Primary Focus	Broad Spectrum	Galxies	NGC-3379 et. El.	08:39 – 12:59	10:01	08	Leo: Leo Trio 2 of galaxies
Primary Focus	Broad Spectrum	Galaxies	NGC-3561 et. El	08:39 – 02:17	10:25	08	Ursa Major: Abartsumian's Knot et. El.
Primary Focus	Broad Spectrum	Galaxy	M-108	08:39 – 02:17	10:25	09	Ursa Major: Irregular Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-3628	08:39 – 01:34	10:33	10	Leo: Edge on Galalaxy
Primary Focus	Broad Spectrum	Galaxies	M-65, M-66	08:39 – 01:33	10:33	11	Leo: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	Arp-214	08:39 – 02:39	10:46	11	Ursa Major: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	NGC-3745 et. El	08:39 – 02:12	10:51	11	Leo: Copeland's Septet
Primary Focus	Broad Spectrum	Galaxies	Abell-1367	08:39 – 02:15	10:58	12	Leo: Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxies	Arp-248	*08:39-01:56	11:00	12	Ursa Major: Wild's Triplet
Primary Focus	Broad Spectrum	Galaxy	M-109	08:39 – 03:04	11:11	12	Ursa Major: Face on med spiral galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4027	*09:13-01:17	11:13	13	Corvus: Irregular galaxy
Primary Focus	Broad Spectrum	Galaxies	Arp-244	*09:19-01:23	11:15	13	Corvus: Antennae Galaxies

# Prospective Imaging Objects – April 08 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	M-98	08:39 – 02:31	11:27	13	Cooma Berenices: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4236	08:39 – 02:48	11:30	14	Draco: Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4244	08:39 – 03:16	11:30	14	Canes Venatici: Silver Needle
Primary Focus	Broad Spectrum	Galaxy	M-99	08:39 – 02:35	11:32	14	Coma Berenices: St. Katherines Wheel
Primary Focus	Broad Spectrum	Galaxy	M-61	09:10 – 02:06	11:35	15	Virgo: Face on Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	M-40	08:39 – 03:25	11:35	16	Ursa Major: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	M-100	08:39 – 02:43	11:36	16	Coma Berenices: Set of Galaxies
Primary Focus	Broad Spectrum	Galaxy	NGC-4449	08:39 – 03:33	11:41	18	Canes Venatici: Interesting Irregular Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-49	09:05 – 02:27	11:43	18	Virgo: Elliptical Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-87	08:52 – 02:42	11:44	18	Virgo: Virgo A Elliptical Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-4490	08:39 – 03:33	11:44	19	Canes Venatici: Interacting Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	M-91	08:51 – 02:52	11:48	20	Coma Berenices: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	M-89 et. El	08:57 – 02:47	11:49	20	Virgo: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	NGC-4559	08:23 – 03:21	11:49	20	Coma Berenices: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-4567	09:01 – 02:44	11:49	21	Virgo: Siamese Twins et. El.
Primary Focus	Broad Spectrum	Galaxy	NGC-4565	08:26 – 03:18	11:49	21	Coma Berenices: Needle Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-90	08:56 – 02:50	11:50	21	Virgo: Med Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-58	09:0-1 – 02:47	11:51	22	Virgo: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Globular	M-68	*10:09-01:45	11:52	22	Hydra: Med Globular
Primary Focus	Broad Spectrum	Galaxy	M-104	*09:41-02:07	11:53	23	Virgo: Sombrero Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4676 A&B	08:25 – 03:36	11:59	24	Coma Berenices: The Mice
Primary Focus	Broad Spectrum	Galaxies	NGC-4725	08:41 – 03:32	12:03	24	Coma Berenices: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	M-94	08:21 – 03:53	12:04	25	Canes Venatici: Med Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4731	*09:58-02:12	12:04	25	Virgo: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-4762, 4754	09:18 – 03:00	12:06	25	Virgo: Edge on and other Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-64	08:55 – 03:30	12:10	26	Coma Berenices: Black Eye Galaxy
Primary Focus	Broad Spectrum	Galaxies	Abell-1656	08:47 – 03:45	12:13	26	Coma Berenices: Coma Galaxy Cluster
Primary Focus	Broad Spectrum	Globular	M-53	09:19 – 03:39	12:26	27	Coma Berenices: Med Globular

# Prospective Imaging Objects – April 08 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	NGC-5033	08:48 – 04:11	12:26	27	Canes Venatici: Med Face on Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-63	08:45 – 04:19	12:29	27	Canes Venatici: Med Face on Galaxy
Primary Focus	Broad Spectrum	Globular	NGC-5053	09:24 – 04:39	12:29	28	Coma Berenices Large open Globular
Primary Focus	Broad Spectrum	Galaxy	M-51	08:56 – 04:39	12:34	28	Canes Venatici: Whirlpool Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-3	09:28 – 04:39	12:55	28	Canes Venatici: Large Globular
Primary Focus	Broad Spectrum	Galaxy	NGC-5395	09:32 – 04:39	01:11	29	Canes Venatici: Heron Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-101	09:29 – 04:39	01:16	29	Ursa Major: Pinwheel Galaxy
Primary Focus	Broad Spectrum	Globular	NGC-5466	09:51 – 04:39	01:18	29	Bootes: Large open globular
Primary Focus	Broad Spectrum	Galaxy	M-102	10:33 – 04:39	02:19	30	Draco: Spindle Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-5905, 5908	10:42 – 04:39	02:28	30	Draco: Face on and Edge on galaxy pair
Primary Focus	Broad Spectrum	Galaxy	NGC-5907	10:43 – 04:39	02:28	30	Draco: Splinter Galaxy
Primary Focus	Broad Spectrum	Globular	M-5	12:16 – 04:39	02:31	31	Serpens: Med Globular
Primary Focus	Broad Spectrum	Galaxies	NGC-5985, 81, 82	11:10 – 04:39	02:52	31	Draco: Draco Trio of galaxies
Primary Focus	Broad Spectrum	Galaxies	NGC-6027A-E	12:00 – 04:39	03:12	32	Serpens: Seyfert's Sextet
Primary Focus	Broad Spectrum	Galaxies	Abell-2151	11:35 – 04:39	03:17	32	Hercules: Hercules Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxy	Arp-188	11:32 – 04:39	03:18	33	Draco: Tadpole Galaxy
Primary Focus	Broad Spectrum	Globular	M-80	*01:20-04:39	03:29	34	Scorpius: Med Globular NGC-6093
Primary Focus	Broad Spectrum	Globular	M-4	*01:53-04:39	03:36	34	Scorpius: Large Globular Cluster NGC-6121
Primary Focus	Broad Spectrum	Globular	M-107	*01:09-04:39	03:45	35	Ophiuchus: Med Globular NGC-6171
Primary Focus	Broad Spectrum	Globular	M-13	12:16 – 04:39	03:54	36	Hercules: The Great Hercules Globular NGC-5205
Primary Focus	Broad Spectrum	Globular	M-12	02:50 – 04:39	04:00	36	Ophiuchus: Large Globular NGC-6218
Primary Focus	Broad Spectrum	Globular	M-10	02:28 – 04:39	04:09	37	Ophiuchus: Large Globular NGC-6254
Primary Focus	Broad Spectrum	Globular	M-62	*02:10-04:39	04:13	37	Ophiuchus: Large Globular NGC-6266
Primary Focus	Broad Spectrum	Globular	M-19	*02:32-04:39	04:15	38	Ophiuchus: Med Globular NGC-6273
Primary Focus	Broad Spectrum	Globular	M-92	12:46 – 04:39	04:29	38	Hercules: Med Globular NGC-6341
Primary Focus	Broad Spectrum	Globular	M-9	*02:26-04:39	04:31	39	Ophiuchus: Med Globular NGC-6333

# Prospective Imaging Objects – April 08 2024

## Imaging Summary April 08, 2024

Astronomical Dusk = 08:19

Astronomical Dawn = 04:39

### Primary Prospects

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	HyperStar	Broadband	Galaxies	IC-2574 Et. El.	08:38 – 01:05	09:42	06	Leo: Galaxy Group 2574
	HyperStar	Broadband	Galaxies	M-106 et. El	08:39 – 03:25	11:32	15	Canes Venatici: Galaxy Group 106
	HyperStar	Broadband	Galaxies	M-84 Et. El	08:45 – 02:37	11:38	17	Virgo: Markarian Chain 2
	HyperStar	Broadband	Galaxies	M-58 Et. El	09:01 – 02:47	11:51	22	Virgo: Galaxy Group M-58
	HyperStar	Nebula	Nebula	SH2-1	*01:28-04:39	03:11	31	Scorpius: Blue Nebula
	HyperStar	Broadband	DN, GC	M-62 Region	*02:10-04:39	04:13	37	Ophiuchus: M-62 Region
	Focal Reducer	Broadband	Galaxies	M-81, M-82	08:39 – 12:26	09:09	03	<b>Rot</b> Ursa Major: Bode's Cigar
	Focal Reducer	Broadband	Galaxies	M-84 et. El.	08:45 - 02:37	11:38	17	Virgo: Markarian's Chain
	Focal Reducer	Broadband	Galaxies	M-91	08:51 – 02:52	11:48	19	Coma Berenices: Galaxy Pair
	Focal Reducer	Broadband	Galaxies	Abell-1656	08:47 – 03:45	12:13	26	Coma Berenices: Coma Galaxy Cluster
	Focal Reducer	Nebula	Nebula	SH2-9	01:42 – 04:39	03:34	34	Scorpius: Diffuse Nebula near star
	Focal Reducer	Broadband	DN & GC	M-9	*02:26-04:39	04:31	39	Ophiuchus: Dark Nebula and Globular
	Primary Focus	Broadband	Galaxy	NGC-2685	08:39 – 12:05	08:46	02	Ursa Major: Helix Galaxy
	Primary Focus	Broadband	Galaxy	NGC-3115	*08:39-12:27	09:19	04	Sextans: Spindle Galaxy
	Primary Focus	Broadband	Galaxies	NGC3227, 3226	08:39 – 12:53	09:37	06	Leo: Interacting Galaxies
	Primary Focus	Broadband	Galaxies	NGC-3561 et. El.	08:39 – 02:17	10:25	08	Ursa Major: Ambartsumian's Knot
	Primary Focus	Broadband	Galaxy	M-108	08:39 – 02:17	10:25	09	Ursa Major: Irregular Galaxy NGC-3555
	Primary Focus	Broadband	Galaxies	NGC-3746 Et. El.	08:39 – 02:12	10:51	11	Leo: Copeland's Septet
	Primary Focus	Broadband	Galaxies	Arp-248	*08:39-01:56	11:00	12	Ursa Major: Wild's Triplet
	Primary Focus	Broadband	Galaxy	M-109	08:39 – 03:04	11:11	12	Ursa Major: Face on Spiral
	Primary Focus	Broadband	Galaxies	Arp-244	*09:19-01:23	11:15	13	Corvus: Antennae Galaxies

# Prospective Imaging Objects – April 08 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Primary Focus	Broadband	Galaxy	M-98	08:39 – 02:31	11:27	13	Coma Berenices: Galaxy NGC-4192
	Primary Focus	Broadband	Galaxy	NGC-4244	08:39 – 03:16	11:30	14	Canes Venatici: Sliver Needle Galaxy
	Primary Focus	Broadband	Galaxy	M-99	08:39 – 02:35	11:32	14	Coma Berenices: St. Katherines Wheel
	Primary Focus	Broadband	Galaxy	M-61	09:10 – 02:06	11:35	15	Virgo: Med Face-on Galaxy
	Primary Focus	Broadband	Galaxies	M-100 et. El.	08:39 - 02:43	11:36	16	Coma Berenices: Galaxy Group 100
	Primary Focus	Broadband	Galaxy	NGC-4449	08:39 – 03:33	11:41	18	Canes Venatici: Irregular Galaxy
	Primary Focus	Broadband	Galaxy	NGC-4559	08:23 – 03:21	11:49	20	Coma Berenices: Barred Spiral Galaxy
	Primary Focus	Broadband	Galaxies	NGC-4567 et. El.	09:01 – 02:44	11:49	21	Virgo: Siamese Twins
	Primary Focus	Broadband	Galaxy	M-90	08:56 – 02:50	11:50	21	Virgo: Med Galaxy
	Primary Focus	Broadband	Galaxy	M-58	09:01 – 02:47	11:51	22	Virgo: Barred Spiral Galaxy NGC-4579
	Primary Focus	Broadband	Globular	M-68	*10:09-01:45	11:52	22	Hydra: Med Globular
	Primary Focus	Broadband	Galaxies	NGC-4731	*09:58-02:12	12:04	25	Virgo: Face on Barred Spiral
	Primary Focus	Broadband	Galaxies	NGC-4762, 4754	09:18 – 03:00	12:06	25	Virgo: Galaxy Pair
	Primary Focus	Broadband	Galaxy	NGC-5033	08:48 – 04:11	12:26	27	Canes Venatici: Face on Galaxy PGC-45948
	Primary Focus	Broadband	Galaxies	NGC-5395 Et. El.	09:32 – 04:39	01:11	29	Canes Venatici: Heron Galaxy Et. El.
	Primary Focus	Broadband	Galaxies	Abell-2151	11:35 – 04:39	03:17	32	Hercules: Hercules Galaxy Cluster
	Primary Focus	Nebula	PN	NGC-6058	11:35 – 04:39	03:17	32	Hercules: Small Planetary nebula
	Primary Focus	Nebula	PN	IC-4593	12:34 – 04:39	03:24	33	Hercules: White Eyed Pea
	Primary Focus	Broadband	GC	M-107	*1:09-04:39	03:45	35	Ophiuchus: Med Globular
	Primary Focus	Broadband	GC	M-10	02:28 – 04:39	04:09	37	Ophiuchus: Large Globular
	Primary Focus	Broadband	GC	M-62	*02:10-04:39	04:13	37	Ophiuchus: Large Globular
	Primary Focus	Broadband	GC	M-19	*02:32-04:39	04:15	38	Ophiuchus: Large Globular
	Primary Focus	Nebula	PN	NGC-6309	*01:48-04:39	04:26	38	Hercules: Box Nebula



# Prospective Imaging Objects – April 08 2024

## Imaging Summary April 08, 2024

Astronomical Dusk = 08:19

Astronomical Dawn = 04:39

### Imaging Plans

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Imaging Schedule
	HyperStar	Nebula	Nebula	SH2-240				07:00 – 02:30 (Rot 90°, Comp-2)
	HyperStar	Nebula	Nebula	IC-2162				08:00 – 02:30 (Rot 90°)
	HyperStar	Nebula	Nebula	NGC-1499				07:00 – 01:00
	HyperStar	Broadband	Galaxies	M-106 et. El.				01:00 – 06:00
	Focal Reducer	Nebula	Nebula	IC-443				08:00 – 03:00 (Comp-2)
	Focal Reducer	Broadband	Galaxies	M-84 et. El.				03:00 – 06:00
	Focal Reducer	Nebula	Nebula	IC-1805				07:00 – 10:30
	Focal Reducer	Nebula	Nebula	NGC-2174				10:30 – 02:30
	Focal Reducer	Broadband	Galaxies					
	Primary Focus	Nebula	PN	NGC-1360				07:00 – 10:30
	Primary Focus	Nebula	PN	NGC-2440				10:30 – 01:30
	Primary Focus	Nebula	PN	NGC-2610				01:30 – 03:30
	Primary Focus	Broad Spectrum	Globular	M-68				03:30 – 06:00
	Primary Focus	Nebula	Nebula					
	Primary Focus	Nebula	Nebula					
	Primary Focus	Broad Spectrum	Galaxy					
	Primary Focus	Broad Spectrum	Galaxy					
	Primary Focus	Broad Spectrum	Galaxy					