

# Prospective Imaging Objects – April

## Astronomical Data

Sunrise	Sunset	Astronomical Dusk	Astronomical Dawn	Imaging	Data Date
05:57am	06:58 pm	08:26 pm	04:30 am	07:56	April 15

## 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



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

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

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

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




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

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




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

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




# Prospective Imaging Objects – April

<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>08:26 – 12:00</b>            Transit: <b>08:43   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  <small>James Yoder (Dobson) 2005 (12:55, 2025 12:05) Location: Chandler, AZ            Config: C-11HD   HyperStar V4 LPS-D, CLS-CXD   GHY 12k;            Exposure: 600ms/Frame, 240img/Frame   Gain: 1200, Offset: 100              RA = 09h 54m 43.87s DEC = +68deg 53' 43.73"   Size = 3.14 x 2.09 deg   Orientation: 3.61deg E of N   Pixel scale = 2.28 arcsec/pixel   FL=540mm</small></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>08:26 – 12:00</b>            Transit: <b>08:43   54°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small; transform: rotate(-90deg); position: absolute; left: 538px; top: 394px;">FOV 1.04 x 0.69° · RA 09h 55' 40" · DEC 69° 18' 39" · 0.39"/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>08:26 – 12:03</b>            Transit: <b>08:43   54°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">M-81 Bode's Galaxy  <small>James Yoder 2015.11.14</small></p>



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<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>08:26 – 12:00</b> Transit: <b>08:43   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 (Regulus)</b> Catalog Objects: <a href="#">NGC-3115</a></p> <p>Imaging Window: <b>*08:26 – 11:57</b> Transit: <b>08:53   49°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small;">Spindle Galaxy (NGC-3115) Constellation: Sextans 10h 05m 21.00s RA -07d 47m 09.00s Dec RA: 156.0916667 Dec: -7.7858333 Equinox: J2000.0 Scale: 1.00 arcsec/pixel Filter: RGB</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 (Regulus)</b> Catalog Objects: <a href="#">UGC-5470</a></p> <p>Imaging Window: <b>08:26 – 11:53</b> Transit: <b>08:56   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 I (UGC-5470) Constellation: Leo 10h 08m 27.00s RA 12d 19m 49.00s Dec RA: 156.1416667 Dec: 12.3297222 Equinox: J2000.0 Scale: 1.00 arcsec/pixel Filter: RGB</p>




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<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>08:26 – 11:28</b>            Transit: <b>09:01</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>08:26 – 12:26</b>            Transit: <b>09:05</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 (Aip-316)  <small>© 2015-2016 by the author. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, without the prior written permission of the author.</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>08:26 – 12:55</b>            Transit: <b>09:06</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>© 2015-2016 by the author. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, without the prior written permission of the author.</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>08:26 – 12:27</b>            Transit: <b>09:11   76°</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>*08:26 – 11:17</b>            Transit: <b>09:12   38°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;"> <span style="float: left;">NGC-3242 (Ghost of Jupiter)            Constellation: Hydra            RA = 10h 24m 46.7s, DEC = -18deg 38' 31.4", Size = 18.5 x 13.9 arcmin   Orientation: -0.4deg E of N   Pixel scale = 0.278 arcsec/pixel   FL = 2000mm</span> <span style="float: right;">James Yoder   Dansto 2020.12.09.10   Location: Chandler, AZ              Config:  C-11 HD X9PT Triad Ultra   ZWO6200MC             Exposure 16fs   1/4 fms @ 2ain   Gain: 100   ODSct: 50</span> </p>


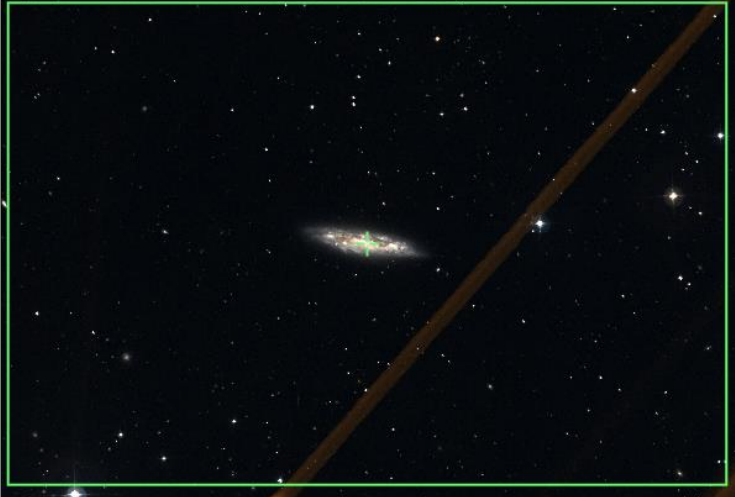

# Prospective Imaging Objects – April

<p><b>Galaxy Group 2574</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>10h 28' 40"</b>  <b>68° 26' 14"</b></p> <p>Close Star: <b>SAO-27876</b> (Merak)            Catalog Objects: <a href="#">IC-2574</a></p> <p>Imaging Window: <b>08:26 – 12:39</b>            Transit: <b>09:16   55°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="text-align: center;">FOV 3.81 x 2.54° · RA 10hr 12' 10\", DEC 69° 02' 51"</p>
<p><b>Coddington's Nebula (IC-2574)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>10h 28' 40"</b>  <b>68° 26' 14"</b></p> <p>Close Star: <b>SAO-27876</b> (Merak)            Catalog Objects: <a href="#">IC-2574</a></p> <p>Imaging Window: <b>08:26 – 12:39</b>            Transit: <b>09:16   55°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;">Coddington Nebula (IC-2574)  <small>James Yoder / Dinos() 2022 04 01 - 2025 04 08   Location: Chandler, AZ.            Config:  C-11 HD Baader Skyglow   QHY128c              Constellation: Ursa Major            RA = 10h 28m 41.9s, DEC = +68deg 26' 48.2\"</small></p>
<p><b>Leo Galaxy Group (M-96, M95 et al.)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxy Grouping</b>            Constellation: <b>Leo</b>            Coordinates:  <b>10h 47' 23"</b>  <b>12° 23' 59"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)            Catalog Objects: <a href="#">M-96</a>, M95, NGC3389, NGC3384, M105</p> <p>Imaging Window: <b>08:26 – 12:30</b>            Transit: <b>09:34   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="text-align: center;">Galaxy Cluster in Leo</p> <p style="text-align: right;"><small>James Yoder, 2018.04.17</small></p>

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<p><b>M-95, M-96</b> (NGC-3351, 3368)            Config:  C11-            HD FR ZWO6200MC </p> <p>Type: <b>Galaxy Pair</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>10h 45' 20"</b>  <b>11° 44' 30"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)            Catalog Objects: <a href="#">M-95</a>, M-96</p> <p>Imaging Window: <b>08:26 – 12:27</b>            Transit: <b>09:31   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small; text-align: center;">Galaxy pair M-95(NGC-3351) &amp; M-96(NGC-3368)            Constellation: Leo the Lion            RA: 10h 45m 19.9s DEC: +11deg 44' 27.7" Size: 79.3 x 48 arcmin (Pixel scale: ~0.178 arcsec/pixel)            James Yoder (2024-04-27) Location: Mountain View, CA            Imaging: C-11 HD/760 Filter (GPR) 120s            Exposure: 120 (Stacked) Noise: (Gain: 520e) Offset: 180</p>
<p><b>Leo Trio 2</b> (NGC-3379, 3384, 3389)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Trio of Galaxies</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>10h 48' 07.227"</b>  <b>12° 33' 52.943"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)            Catalog Objects: <a href="#">M-105</a>/NGC3379,            NGC-3384, NGC-3389</p> <p>Imaging Window: <b>08:26 – 12:33</b>            Transit: <b>09:35   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">Trio of Galaxies            NGC 3389            NGC 3384            NGC 3379 (M105)            James Yoder 2015.03.22</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>08:26 – 01:32</b>            Transit: <b>09:58   85°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

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<p><b>M-108 &amp; M-97</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>08:26 – 01:51</b>            Transit: <b>09:59   68°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p>  <p>M-108 (NGC-3556) and Owl Nebula (M-97, NGC-3587)  <small>Constellation: Ursa Major            [RA = 11h 12m 51.217s DEC = +55deg 21' 46.196"] Size = 1.91 x 1.28 deg   Pixel scale = 2.28 arcsec/pixel</small></p> <p>James Yoder 2020 04 03  <small>Config:  C-11HD HyperStar V4 Astroemikon CLS-CCD QHY129c-             Exposure Info:  147fms@1min  Gain: 3200  Offset: 180              Location: Chandler, AZ</small></p>
<p><b>M-108 (NGC-3556)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Irregular Galaxy</b></p> <p>Constellation: <b>Ursa Major</b>            Coordinates:  <b>11h 11' 29"</b>  <b>55° 40' 22"</b></p> <p>Close Star: <b>SAO-27876</b> (Merak)            Catalog Objects: <a href="#">M-108</a>/NGC-3555</p> <p>Imaging Window: <b>08:26 – 01:51</b>            Transit: <b>09:59   68°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 
<p><b>Owl Nebula (NGC-3587)</b>            Config:  C11HD ZWO6200MC             Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Ursa Major</b>            Coordinates:  <b>11h 14' 48"</b>  <b>55° 01' 10"</b></p> <p>Close Star: <b>SAO-27876</b>            Catalog Objects: <a href="#">M-97</a>/NGC-3587</p> <p>Imaging Window: <b>08:26 – 01:54</b>            Transit: <b>10:02   68°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p>Owl Nebula (NGC-3597 / M-97)  <small>Constellation: Ursa Major            [RA = 11h 14m 41.22s DEC = +55deg 01' 11.20"] Size = 48.0 x 13.0 arcmin   Pixel scale = 0.840 arcsec/pixel</small></p> <p>James Yoder 2020 04 03  <small>Location: Chandler, AZ            Config:  C-11 HD Astroemikon CLS-CCD QHY129c-             Exposure Info:  20fms@1min  Gain: 3200  Offset: 180  </small></p>





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<p><b>Lio Trio of Galaxies</b>          Config:  C11HD ZWO6200MC           Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Leo</b>          Coordinates:  <b>See Targets Below</b></p> <p><i>NOTE: M-65/M-66 &amp; NGC-3628 combined to create mosaic</i></p> <p>Close Star: <b>SAO-98967</b> (Regulus)          Catalog Objects: <a href="#">NGC-3628</a>, <a href="#">M-65</a></p> <p>Imaging Window: <b>08:26 – 01:08</b>          Transit: <b>10:07   70°</b></p>	<p><b>C-11 HD: Primary Focus <b>Mosaic</b></b></p>  <p><small>Leo Trio of Galaxies (NGC-3628, NGC-3623, NGC-3627)          Constellation: Leo-the-Lion          RA = 11h 19m 45.3s, DEC = +13deg 16' 38.0" Size = 56.7 x 27.8 arcmin Orientation: 200deg E of N Pixel scale = 0.577 arcsec/pixel F1.1 196kms          James Yoder / Drones 2020 04 14 2020 04 17 Location: Cheshire, AZ          Config: C11-HD / 4.7 Reducer / Filter: Baader Sg510a / Camera: QHY128C          Exposure Info: 04frames/5min / Gain: 3200 / Offset: 100</small></p>
<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: <b>11hr 19' 57"DEC: 13° 32' 15"</b>          Frame 02          RA: <b>11hr 19' 57"DEC: 13° 04' 57"</b></p> <p>Close Star: <b>SAO-15384</b>          Catalog Objects: <a href="#">NGC-3628</a>, 3623, M-65</p> <p>Imaging Window: <b>08:26 – 01:08</b>          Transit: <b>10:07   70°</b></p>	<p><b>C-11 HD: <b>Focal Reducer Composite!</b></b></p>  <p><small>FOV 1.04 x 1.16° · RA 11hr 19' 57" / DEC 13° 18' 36"</small></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>,          Imaging Window: <b>08:26 – 01:08</b>          Transit: <b>10:07   70°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p><small>NGC-3628          Edge-On Galaxy          James Yoder          2015 04 19</small></p>

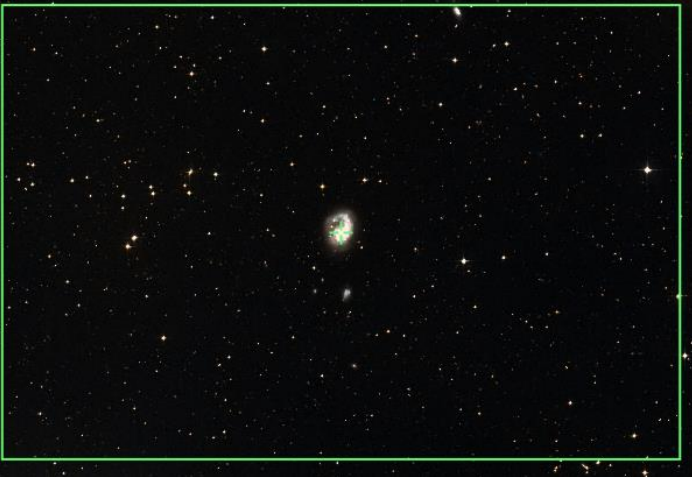


# Prospective Imaging Objects – April

<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>08:26 – 01:06</b>            Transit: <b>10:06   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">M-65, M66 Spiral Galaxies</p> <p style="text-align: right; font-size: small;">James Yoder 2015.05.19</p>
<p><b>Arp-214</b> (<a href="#">NGC-3718</a>, <a href="#">NGC-3729</a>)            Config:  C11HD ZWO6200MC             Type: <b>Galaxy Pair</b></p> <p>Constellation: <b>Ursa Major</b>            Coordinates:  <b>11h 33' 09"</b>  <b>53° 05' 02"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda)            Catalog Objects: <a href="#">NGC-3718</a></p> <p>Imaging Window: <b>08:26 – 02:13</b>            Transit: <b>10:20   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 = 10h 33m 10.01s DEC = 53deg 04' 44.800" Size = 45 x 30.4 arcmin   Pixel scale = 0.446 arcsec/pixel   FL = 2.720mm</p> <p style="font-size: x-small; text-align: right;">James Yoder 2020-02-16            Location: Chandler, AZ            Config:  C-11 HD (Astronomik CLS-CCD) QHY128c             Exposure Info: (34min@5min   Gain: 3200) (Offset: 180)</p>
<p><b>Copeland's Septet</b> (<a href="#">NGC-3746</a>, <a href="#">3748</a>, <a href="#">3750</a>, <a href="#">3751</a>, <a href="#">3753</a>, <a href="#">3754</a>)            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>08:26 – 01:46</b>            Transit: <b>10:25   79°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – April

<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>08:26 – 01:49</b> Transit: <b>10:32   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 (ABCD-1367) Copyright © 2025 SkySafari</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>*08:26 – 12:58</b> Transit: <b>10:34   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>08:26 – 02:38</b> Transit: <b>10:45   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 



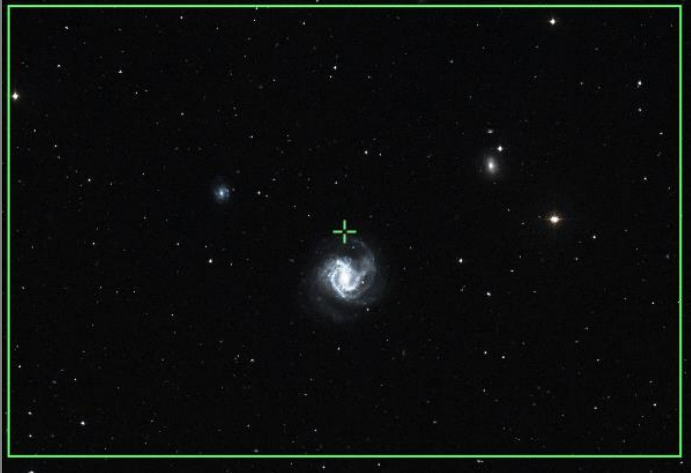
# Prospective Imaging Objects – April

<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: *08:47 – 12:46 Transit: 10:46   37°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></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: *08:47 – 12:58 Transit: 10:49   38°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></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: 08:26 – 02:05 Transit: 11:01   72°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

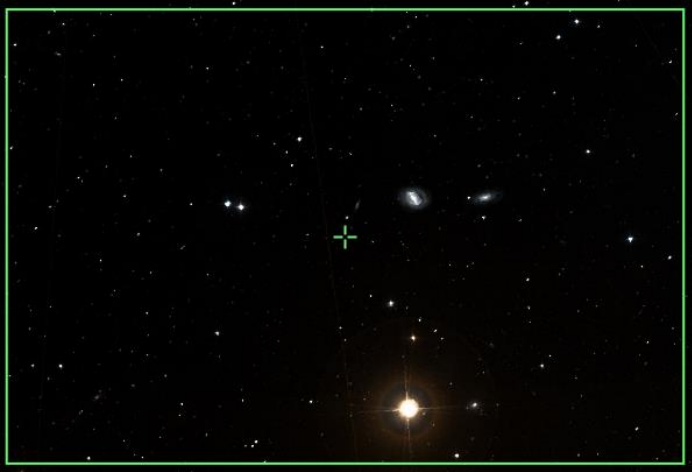


# Prospective Imaging Objects – April

<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>07:52 – 02:22</b> Transit: <b>11:04   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) (Credit: ESO)</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>08:26 – 02:50</b> Transit: <b>11:04   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>08:26 – 02:09</b> Transit: <b>11:06   71°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 


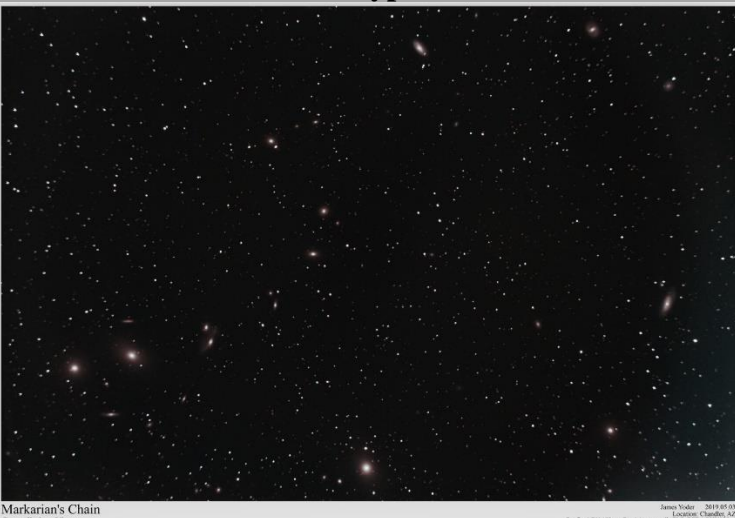
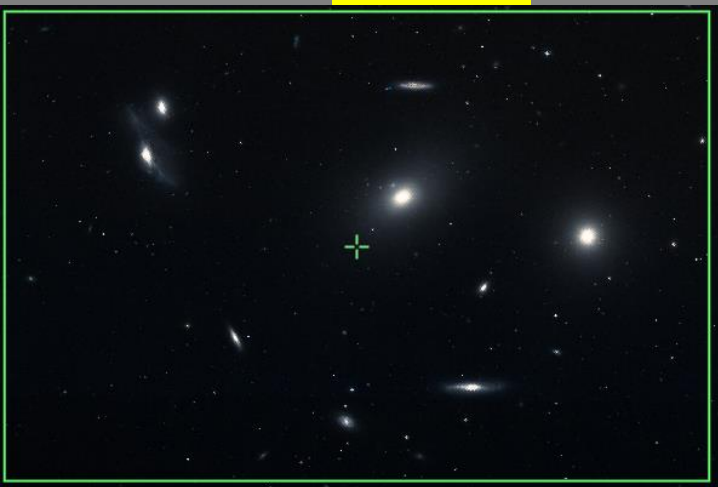
# Prospective Imaging Objects – April

<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>08:26 – 02:59</b>            Transit: <b>11:06   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 FR 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>08:26 – 02:59</b>            Transit: <b>11:06   76°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>M-61</b> (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>08:44 – 01:40</b>            Transit: <b>11:09   61°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – April


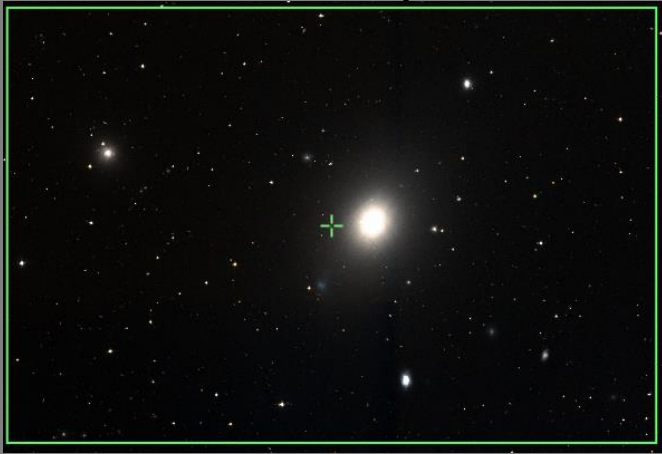

<p><b>Winnecke 4</b>(M-40) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Ursa Major</b> Coordinates: <b>12h 21' 22"</b> <b>58° 03' 05"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda) Catalog Objects: <a href="#">M-40</a>, NGC-4290, NGC-4284 Imaging Window: <b>08:26 – 02:59</b> Transit: <b>11:09   65°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-100</b>(NGC-4303) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Face-On Spiral Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 22' 28"</b> <b>15° 42' 40"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-100</a>/NGC-4321, NGC-4312, 4328, 4322, UGC-7425, IC-783A, Imaging Window: <b>08:26 – 02:17</b> Transit: <b>11:10   72°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Lawn Sprinkler Nebula</b> (NGC-4361) 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>*09:07 – 01:19</b> Transit: <b>11:11   38°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Planetary Nebula NGC-6572 Constellation: Oriouchen Coordinates: RA=10h 23m 31s -18° 47' 03" Size= 27x 18 arcsec Orientation: 84deg E of N Pixel Scale= 0.27 arcsec/pixel F1-500nm</p> <p style="font-size: x-small;">Astronomy Today (2016) 20(2) 40-42, 49, 51   Location: Yonkers, NY Copyright © 2016 Pearson Education, Inc. All rights reserved.   ISBN: 978-0-321-91746-9 Distributed under the Creative Commons Attribution-NonCommercial-ShareAlike license</p>

# Prospective Imaging Objects – April




<p><b>Markarian Chain (M-84 Et. Et.)</b>            Config: C11-HD   HS   ZWO6200MC            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>08:26 – 02:11</b>            Transit: <b>11:12   69°</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            Type: <b>Galaxy cluster</b></p> <p>Constellation: <b>Virgo</b>            Coordinates:  <b>12h 35' 40"</b>  <b>12° 33' 22"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)            Catalog Objects: <a href="#">M-84</a>/NGC-4374, NGC-4388, 4425, 4402, M-86/NGC4406, 4438, 4435, and more            Imaging Window: <b>08:26 – 02:11</b>            Transit: <b>11:12   69°</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 <b>FR</b> ZWO6200MC             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>08:26 – 02:11</b>            Transit: <b>11:12   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b></b></p> 






# Prospective Imaging Objects – April

<p><b>Emission Line Galaxy</b> (NGC-4449/UGC-7592) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Irregular Galaxy</b></p> <p>Constellation: <b>Canes Venatici</b> Coordinates: <b>12h 28' 11"</b> <b>44° 05' 42"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth) Catalog Objects: <a href="#">NGC-4449</a>/UGC-7592 Imaging Window: <b>08:26 – 03:06</b> Transit: <b>11:15   79°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">NGC-4449 (Caldwell 21) Constellation: Canes Venatici RA = 12h 28m 11.3s, DEC = 44deg 05' 42.2" Size = 21.6 x 17.1 arcmin Orientation: Wgt 1.075   Pixel scale = 0.777 arcsec/pixel (f = 2000mm) Date/Time: 2025/02/26 08:26:00.00   Filter: Emission Eqpt: C-11 HD Model: F1000209AC   Exposure: 15   Filter: Emission   Gain: 800   Offset: 50</p>
<p><b>M-49</b>(NGC-4472) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Elliptical Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 29' 58"</b> <b>07° 59' 51"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-49</a>/NGC-4472 Imaging Window: <b>08:39 – 02:01</b> Transit: <b>11:17   65°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Virgo A</b>(M-87) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Elliptical Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 30' 49"</b> <b>12° 23' 26"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-87</a>/NGC-4486 Imaging Window: <b>08:26 – 02:15</b> Transit: <b>11:18   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 


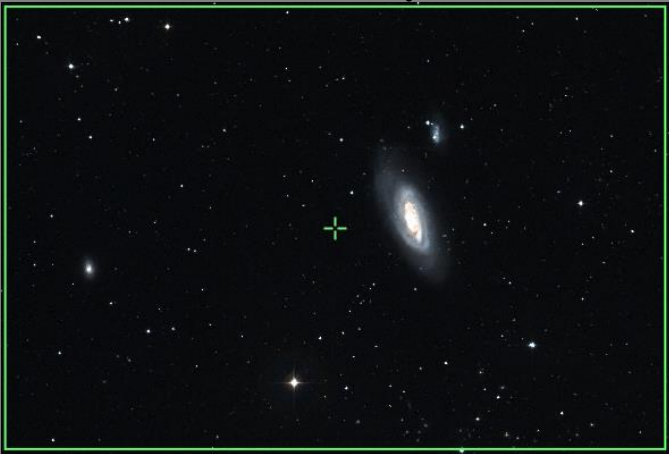

# Prospective Imaging Objects – April

<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>08:26 – 03:07</b> Transit: <b>11:17   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 36.00s DEC = +41deg 38' 34.00" Size = 36.1 x 24.3 arcmin Orientation: -0.33deg E of N Pixel scale = 0.448 arcsec/pixel FL=2750mm James Voderl (Date) 2020-02-02 - 2020-02-07 Location: Chandler, AZ Config: C-11 HD (Bianchi Singolar) QSI128K Exposure Info: 7460ms@8mm Gain: 1200 Offset: 100</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>*08:26 – 04:13</b> Transit: <b>11:20   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 = 21.0 x 10.0 arcmin Orientation: 0.00deg E of N Pixel scale = 0.22 arcsec/pixel FL=2070mm James Voderl (Date) 2020-02-02 - 2020-02-07 Location: Chandler, AZ Config: C-11 HD (Bianchi Singolar) QSI128K Exposure Info: 7460ms@8mm Gain: 1200 Offset: 100</small></p>
<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</p> <p>Imaging Window: <b>08:26 – 02:26</b> Transit: <b>11:22   71°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – April

<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>08:26 – 02:21</b> Transit: <b>11:23   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>08:26 – 02:55</b> Transit: <b>11:23   85°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Siamese Twins</b>(NGC-4567) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Elliptical Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 36' 26"</b> <b>11° 19' 59"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">NGC-4567</a>, NGC-4568, NGC-4564 Imaging Window: <b>08:26 – 02:18</b> Transit: <b>11:23   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – April

<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 – 02:52</b> Transit: <b>11:23   83°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p>NGC4565 The Needle Galaxy</p> <p>James Yoder 2017.04.22</p>
<p><b>M-90</b> (NGC-4569) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 37' 11"</b> <b>13° 09' 19"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-90</a>/NGC-4569 IC-3583, NGC-4584 Imaging Window: <b>08:26 – 02:24</b> Transit: <b>11:24   70°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 
<p><b>Galaxy Group 58</b> Config:   C-11HD   HyperStar  </p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 37' 35"</b> <b>12° 18' 56"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-58</a>/NGC-4579 Imaging Window: <b>08:26 – 02:21</b> Transit: <b>11:24   68°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p>  <p>FOV 3.81 x 2.54° · RA 12hr 37' 35", DEC 12° 18' 56"</p>



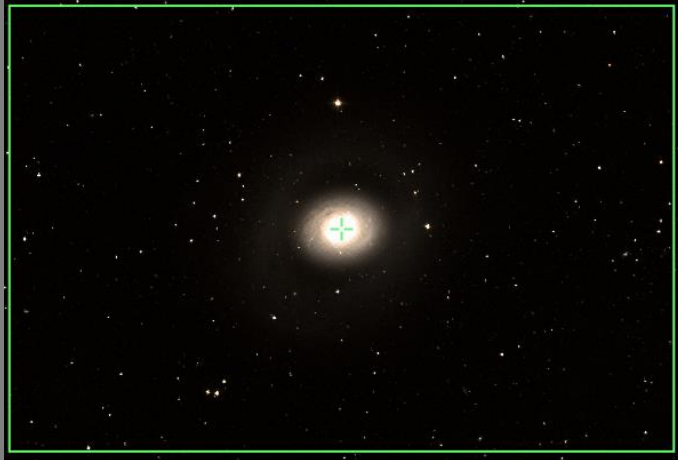
# Prospective Imaging Objects – April

<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>08:26 – 02:21</b> Transit: <b>11:24   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-68</b> (NGC-4590) Config:  C11HD  ZWO6200MC </p> <p>Type: <b>Globular Cluster</b> Constellation: <b>Hydra</b> Coordinates: <b>12h 39' 28"</b> <b>-26° 44' 32"</b></p> <p>Close Star: <b>SAO-180915</b> (Kraz) Catalog Objects: <a href="#">M-68</a>/NGC-4590</p> <p>Imaging Window: <b>*09:44 – 01:10</b> Transit: <b>11:26   30°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center; font-size: small;">FOV 0.73 x 0.49° - Rayleigh limit 0.49"</p>
<p><b>Sombrero Galaxy</b> (M-104) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Edge-on Spiral Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 39' 44"</b> <b>-11° 37' 52"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-104</a>/NGC-4594 Imaging Window: <b>*09:19 – 01:39</b> Transit: <b>11:27   45°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small; margin-top: 5px;">M104 Sombrero Galaxy <span style="float: right;">James Yoder 2015.01.18</span></p>


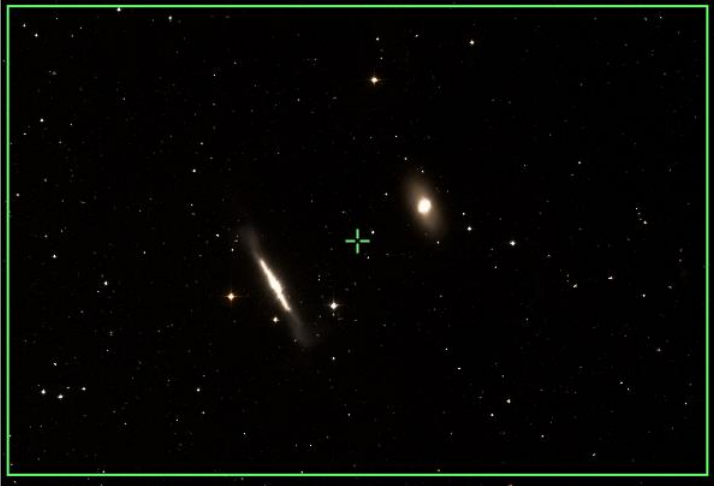
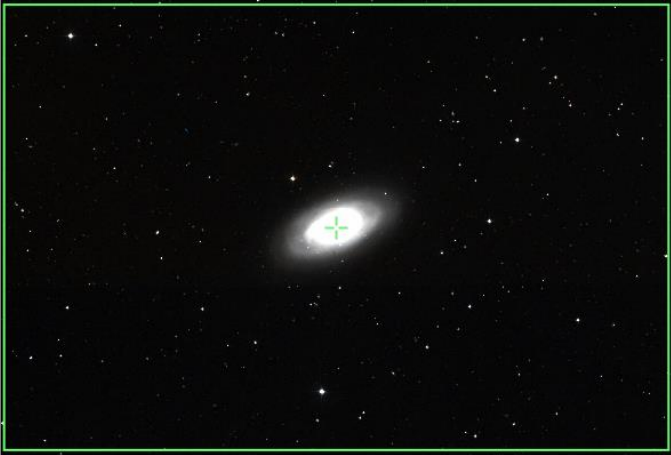
# Prospective Imaging Objects – April

<p><b>Whale and Hockey Stick</b> (NGC-4631, NGC-4656) Config:  C11- HD FR ZWO6200MC </p> <p>Type: <b>Galaxies</b></p> <p>Constellation: <b>Canes Venatici</b> Coordinates: <b>12h 42' 50"</b> <b>32° 20' 54"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">NGC-4631</a>, NGC-4656 Imaging Window: <b>08:26 – 03:08</b> Transit: <b>11:29   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small;">Whale and Hockey Stick Galaxies (NGC4631, NGC4656) Constellation: Canes Venatici</p> <p style="font-size: x-small; text-align: right;">James Yoder - 2019.04.14 Location: Mountain View, Trabuco, AZ Config:  C11 Starizona LF Corrector  Dusler Skyglow Filter  QHY 12C  Exposure Info: 15 frames @ 6min Gain: 3200  Offset: 100</p>
<p><b>M-59, M-60 group</b> Config:  C11- HD FR ZWO6200MC </p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 42' 42"</b> <b>11° 40' 33"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">M-59</a>/NGC-4621, M-60/NGC-4649, NGC-4656, 4647, 4638, 4607, 4606 Imaging Window: <b>08:39 – 02:24</b> Transit: <b>11:29   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small;">Virgo Cluster of Galaxies Constellation: Virgo the virgin</p> <p style="font-size: x-small; text-align: right;">James Yoder   Duran   2021.04.30 - 2020.05.16   Location: Chandler, AZ Config:  C11-HD 0.7 Reducer   Filter: Dusler Skyglow, RGB   Camera: ZWO ASI-6200 Exposure Info: [L=84fms@6min, G=13fms@6min, R=12fms@6min, B=14fms@6min]   Total = 12hrs 1 Hour Gain: 100   Offset: 50 [RA = 12h 42m 40.5s DEC = +11deg 40' 19.7"]   Size = 57.3 x 37.7 arcmin   Orientation = -0.2deg E of N   Pixel scale = 0.785 arcsec/pixel   FL=1900mm  </p>
<p><b>TheMice</b> (NGC-4676 A &amp; B) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Interacting Galaxies</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 46' 07"</b> <b>30° 43' 43"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">NGC-4676A &amp; B</a> Imaging Window: <b>08:26 – 03:10</b> Transit: <b>11:33   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – April



<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>08:26 – 03:05</b>            Transit: <b>11:37   82°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small;">Galaxy Cluster NGC-4747, NGC-4725, NGC4712  <small>Junna Yoder   Date(s) 2021.01.02, 2021.01.03   Location: Chandler, AZ              Constellation: Coma Berenices            Config:  C11-HD   0.7 Reducer   Filter: Baader Skyglow   Camera: QHY128C              Exposure Info: 96frames@1min   Gain: 3200   Offset: 100              RA = 12h 50m 40.89s   DEC = +25deg 36' 33.3"   Size = 44.39 x 29.62 arcmin   Orientation: (Mag E of N)   Pixel scale = 0.630 arcsec/pixel   FL=1953mm</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>08:26 – 03:05</b>            Transit: <b>11:37   82°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-94</b> (NGC-4736)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Canes Venatici</b>            Coordinates:  <b>12h 50' 53"</b>  <b>41° 07' 17"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth)            Catalog Objects: <a href="#">M-94</a>/NGC-4736            Imaging Window: <b>08:26 – 03:27</b>            Transit: <b>11:38   82°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – April




<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>10:12 – 01:10</b> Transit: <b>11:38   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>08:26 – 02:34</b> Transit: <b>11:40   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Black Eye Galaxy</b> (M-64) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 56' 44"</b> <b>21° 40' 59"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">M-64</a>/NGC-4826 Imaging Window: <b>08:26 – 03:04</b> Transit: <b>11:44   78°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 





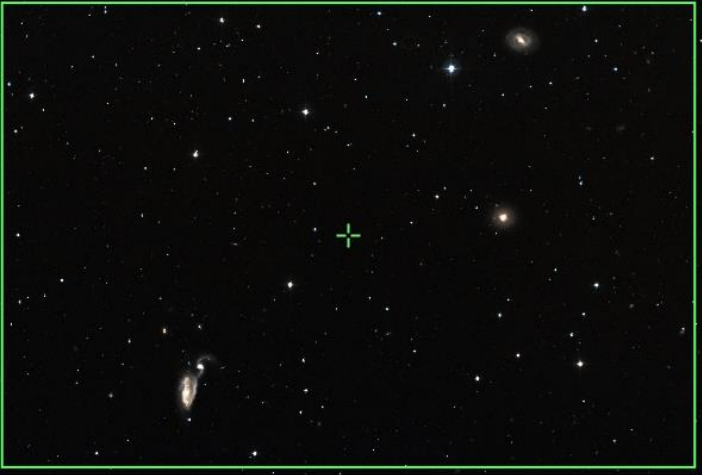
# Prospective Imaging Objects – April

<p><b>Coma Galaxy Cluster</b> (Abell-1656) Config:  C11- HD FR ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 59' 58"</b> <b>27° 58' 53"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">Abell-1656</a> Imaging Window: <b>08:26 – 03:19</b> Transit: <b>11:47   84°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Coma Galaxy Cluster</b> (Abell-1656) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>13h 00' 06"</b> <b>28° 00' 31"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">Abell-1656</a> Imaging Window: <b>08:26 – 03:19</b> Transit: <b>11:47   84°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Galaxy Cluster Abell-1656 Constellation: Coma Berenices RA = 12h 59m 58.92s, DEC = 27d 58m 53.11s, Size = 47.5 x 33 arcmin, Pixel scale = 0.488 arcsec/pixel Juno Vixen   Filter(s) 20250421   Location: East Deshman State Park, AZ Config: C-11 HD No Filter, QHY128c Exposure date: 20250421, Gain: 1200, Offset: 100</p>
<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>08:26 – 03:13</b> Transit: <b>12:00   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 52.7s, DEC = 18d 10m 11.7s, Size = 27.7 x 27.0 arcmin, Orientation: 0.0deg E of N, Pixel scale = 0.452 arcsec/pixel   F1-272mm Juno Vixen   Filter(s) 20250421   Location: Chandler, AZ Config: C-11 HD Bicolor Single Filter (QHY128c) Exposure date: 20250421, Gain: 1200, Offset: 100</p>




# Prospective Imaging Objects – April

<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 Imaging Window: <b>08:26 – 03:45</b> Transit: <b>12:00   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 Imaging Window: <b>08:26 – 03:53</b> Transit: <b>12:03   81°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p><small>M-63 Sunflower Galaxy</small></p> <p><small>James Yoder 2015.04.15</small></p>
<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>08:58 – 03:15</b> Transit: <b>12:03   74°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p><small>Globular Cluster NGC-5053 Constellation: Coma Berenices R.A. = 13h 16m 27.2s (R.A. = 175deg 49' 52.7")   Size = 37.1 x 27.9 arcmin   Orientation: 0.4Mag E of N   Pixel scale = 0.452 arcsec/pixel (FL=2750mm)</small></p> <p><small>James Yoder   Date(s): 2022/04/21   2022/04/21   Location: Chandler, AZ   Config:  C-11 HD Bender Nipkow Filter C0917284   Exposure info: 100frames@5min   Gain: 3200   ONSite: 130</small></p>




# Prospective Imaging Objects – April

<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>08:30 – 04:10</b> Transit: <b>12:17   76°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;"><small>Whirlpool Galaxy M-51 (NGC-5194) Constellation: Canes Venatici Coordinates: 13h 29m 53.0s, 47° 11' 44.0"</small></p>
<p><b>M-3 (NGC-5272)</b> Config:  C11HD 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>09:02 – 04:02</b> Transit: <b>12:29   85°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;"><small>Globular Cluster M-3 Constellation: Canes Venatici Coordinates: 13h 42m 11.0s, 28° 22' 34.0"</small></p>
<p><b>Heron Galaxy (NGC-5395) et al.</b> 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>09:06 – 04:30</b> Transit: <b>12:45   86°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;"><small>Heron Galaxy NGC-5395 Constellation: Canes Venatici Coordinates: 13h 57m 46.0s, 37° 35' 31.0"</small></p>

# Prospective Imaging Objects – April




<p><b>Pinwheel Galaxy (M-101)</b> 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>09:03 – 04:30</b> Transit: <b>12:50   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">M-101 (Pinwheel Galaxy) with Supernova Copyright © 2015-2025, All Rights Reserved. Astro-Physics, LLC. All Rights Reserved.</p>
<p><b>NGC-5466</b> Config:  C11HD  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>09:25 – 04:26</b> Transit: <b>12:52   85°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">Globular Cluster NGC-5466 Copyright © 2015-2025, All Rights Reserved. Astro-Physics, LLC. All Rights Reserved.</p>
<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>10:07 – 04:30</b> Transit: <b>01:53   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">Spindle Galaxy (M-102/NGC-5866) Constellation: Spindle Galaxy in Draco Astro-Physics, LLC. All Rights Reserved. Astro-Physics, LLC. All Rights Reserved.</p>

# Prospective Imaging Objects – April




<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>10:16 – 04:30</b> Transit: <b>02:02   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 15m 35.6s DEC = +55deg 29' 00"   Size = 29.75 x 19.8 arcmin   Pixel scale = 0.446 arcsec/pixel   James Yoder   Location: Chandler, AZ   2020.01.01 Config:  C-11 HD Blander Skyglow Filter   QHY128c   Exposure Info:  360min@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>10:17 – 04:30</b> Transit: <b>02:02   67°</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: Draco James Yoder   Location: Chandler, AZ   2020.01.01 Config:  C-11 HD Blander Skyglow Filter   QHY128c   Exposure Info:  360min@5min   Gain: 3200   Offset: 180  </p>
<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>11:50 – 04:27</b> Transit: <b>02:05   59°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">M-005 Globular Cluster in Serpens James Yoder 2017.01.25</p>



# Prospective Imaging Objects – April

<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>11:46 – 04:30</b> Transit: <b>02:52   74°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Hercules Cluster of galaxies (Abell 2151) Constellation: Hercules RA: 16h 05m 13.00s · DEC: 17° 45' 39.00" · Date: 2025-02-17 00:00:00 · Filter: 12nm · Gain: 100 · Exposure: 120s · Scale: 0.15"/pixel</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></p> <p>Imaging Window: <b>11:09 – 04:30</b> Transit: <b>02:51   83°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center; font-size: small;">FOV 0.73 x 0.49 · RA 16hr 04' 27", DEC 40° 41' 01"</p>
<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>11:07 – 04:30</b> Transit: <b>02:52   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Tadpole Galaxy (ARP-188) Constellation: Draco the dragon RA: 16h 06m 04.00s · DEC: 55° 26' 07.00" · Date: 2025-02-17 00:00:00 · Filter: 12nm · Gain: 100 · Exposure: 120s · Scale: 0.15"/pixel</p>

# Prospective Imaging Objects – April

<p><b>White Eyed Pea (IC-4593)</b> Config:  C11HD 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> Imaging Window: <b>12:08 – 04:30</b> Transit: <b>02:58   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">White Eyed Pea Nebula (IC-4593) Constellation: Hercules RA = 15h 11m 45.00s DEC = 12° 03' 45.00" Size = 1.50deg x 2.50deg Orientation: 0 deg E of N   Pixel scale = 0.23 arcsec/pixel   FL = 2000mm Imaging: James VanDerKam 2025-02-21   Location: Chandler AZ Config: C-11 HD   ZWO6200MC   QHY128C   Exposure: 10 x 120sec/Frame   Gain: 1000   Offset: 100</p>
<p><b>Blue Horshead (IC-4592)</b> Config: C11-HD   HS   ZWO6200MC</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>*12:58 – 04:30</b> Transit: <b>02:59   37°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small; text-align: center;">Blue Horse Nebula (IC-4592) Constellation: Scorpius RA = 16h 14m 15.00s DEC = -19° 17' 16.00" Size = 3.45deg x 2.5deg Orientation: 175deg E of N   Pixel scale = 0.23 arcsec/pixel   FL = 2000mm Imaging: James VanDerKam 2025-02-21   Location: Mountain View, CA Config: C-11 HD   HyperStar V4   Baader Skyline Filter   QHY128C   Exposure: 100 x 120sec/Frame   Gain: 1000   Offset: 100</p>
<p><b>M-80 (NGC-6093)</b> 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>*12:46 – 04:30</b> Transit: <b>03:03   34°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">Globular Cluster M-80 Constellation: Scorpius RA = 16h 17m 02.00s DEC = -22° 58' 28.00" Size = 11.1 x 27.0 arcmin Orientation: 0 deg E of N   Pixel scale = 0.93 arcsec/pixel   FL = 2000mm Imaging: James VanDerKam 2025-04-01   Location: Chandler AZ Config: C-11 HD   Baader Skyline Filter   QHY128C   Exposure: 100 x 120sec/Frame   Gain: 1000   Offset: 100</p>



# Prospective Imaging Objects – April

## SH2-9

Config: |C11-  
HD|FR|ZWO6200MC|

Type: **Diffuse Nebula**

Constellation: **Scorpius**

Coordinates:  
**16h 20' 16"**  
**-25° 25' 53"**

Close Star: **SAO-184415** (Antares)

Catalog Objects: [SH2-9](#)

Imaging Window: \***01:14 – 04:30**

Transit: **03:07 | 31°**

### C-11 HD: **Focal Reducer**



## M-4 (NGC-6121)

Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

Constellation: **Scorpius**

Coordinates:  
**16h 23' 35"**  
**-26° 31' 29"**

Close Star: **SAO-184415** (Antares)

Catalog Objects: [M-4/NGC-6121](#)

Imaging Window: \***01:23 – 04:30**

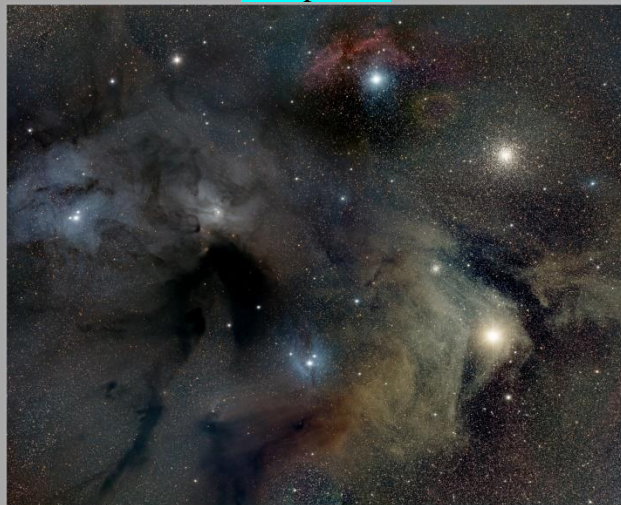

Transit: **03:10 | 30°**

### C-11 HD: **Primary Focus**






Globular Cluster Messier 4  
Constellation: Scorpius  
16h 23m 35.5s, 26° 31' 29.4" (Mag 8.1, 10.0) (Profil scale = 8.492 arcsec/pixel, FWHM=1.2725arcsec)



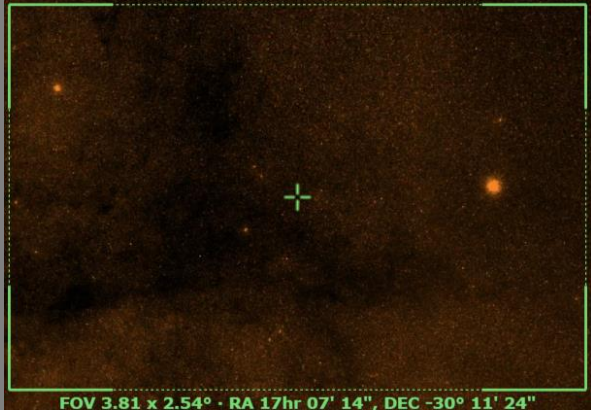
# Prospective Imaging Objects – April

<p><b>Ophiuchus Complex (IC-4604)</b>          Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Composite with M-4</p> <p>Type: <b>Bright Nebula</b></p> <p>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 (Antares)</b>          Catalog Objects: <a href="#">IC-4604</a></p> <p>Imaging Window: <b>*01:47– 04:30</b>          Transit: <b>03:12   33°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4 Composite!</b></p>  <p style="font-size: small;">Ophiuchus Complex Region          Coordinates: Ophiuchus and Scorpius          RA: 16h 26m 46s DEC: -24° 08' 13" Frame 01          RA: 16h 26m 46s DEC: -26° 14' 42" Frame 02          Filter: HyperStar v4          Exposure: 1.00s          Gain: 1000          Offset: 100</p>
<p><b>Perfect Planetary Nebula (Abell-39)</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 (Sarin)</b>          Catalog Objects: <a href="#">Abell-39/PK 47+42.1</a>          Imaging Window: <b>11:48 – 04:30</b>          Transit: <b>03:14   84°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Planetary Nebula Abell-39          Constellation: Hercules          RA: 16h 27m 34s DEC: -27° 54' 29" Size: 39 x 26 arcmin Orientation: 84deg E of N Pixel scale: 0.466 arcsec/pixel F1-C11HD          Date: 2025-02-17 20:05:15 Location: Mesa Verde Observatory, AZ          Config: C-11 HD No Filter (0205-126)          Exposure Info: 0.000000sec Gain: 5000 Offset: 100</p>

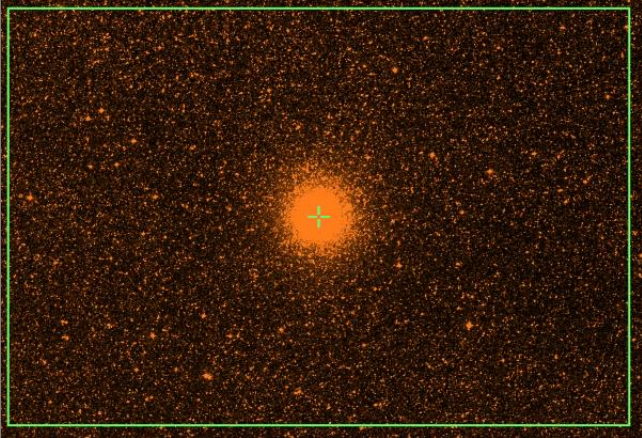

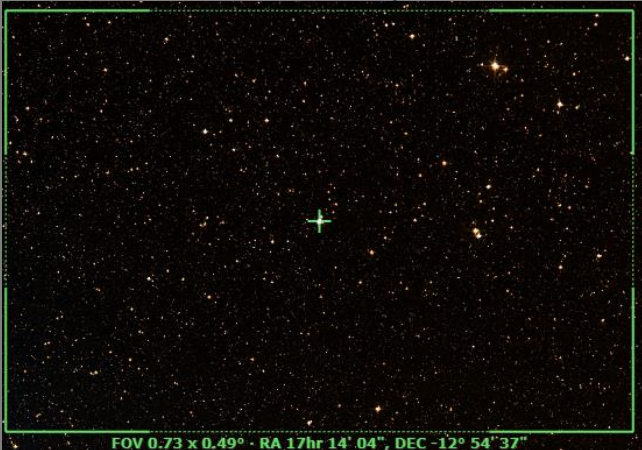
# Prospective Imaging Objects – April

<p><b>M-107</b> (NGC-6171) 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>12:42 – 04:30</b> Transit: <b>03:19   44°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<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>13:50 – 04:30</b> Transit: <b>03:28   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Great Hercules Cluster M-13 (NGC-6205) Coordinates: RA: 16h 41m 41.00s, Dec: 36° 27' 39.00" N, Mag: 4.0, Size: 100', Dist: 26,000 ly, Type: Globular Cluster Imaging: 2025-02-11 21:00:00, Exp: 1200s, Gain: 100, Filter: None, Focus: 1000mm, Mount: EQ6-R</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>12:13 – 04:30</b> Transit: <b>03:31   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Planetary Nebula NGC-6210 Coordinates: RA: 16h 44m 29.00s, Dec: 23° 48' 02.00" N, Mag: 6.0, Size: 100', Dist: 2,000 ly, Type: Planetary Nebula Imaging: 2025-02-11 21:00:00, Exp: 1200s, Gain: 100, Filter: None, Focus: 1000mm, Mount: EQ6-R</p>


# Prospective Imaging Objects – April

<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>01:39 – 04:30</b>            Transit: <b>03:33   55°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">             Globular Cluster Messier 12              James Yoder   Date(s) 2022-04-21 - 2022-04-21   Location: Chandler, AZ                Constellation: Ophiuchus                Config: C-11 HD (Baffle Skipped Filter) (QHY126)                Exposure Info: #180ex Date: Gain: 2000  Offset: 180             </p>
<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>02:02 – 04:30</b>            Transit: <b>03:43   53°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">             Globular Cluster M 10 (NGC-6254)              James Yoder   Date(s) 2022-04-21 - 2022-04-21   Location: Chandler, AZ                Constellation: Ophiuchus                Config: C-11 HD (Baffle Skipped Filter) (QHY126)                Exposure Info: #180ex Date: Gain: 2000  Offset: 180             </p>
<p><b>M-62 Region</b> (NGC-6266)            Config: <b>C11-HD   HS  </b>  <b>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>*02:48 – 04:30</b>            Transit: <b>03:47   33°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="text-align: center; color: green; font-size: small;"> <b>FOV 3.81 x 2.54° · RA 17hr 07' 14", DEC -30° 11' 24"</b> </p>



# Prospective Imaging Objects – April

<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>02:48 – 04:30</b> Transit: <b>03:47   33°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<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>02:07 – 04:30</b> Transit: <b>03:49   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>Ophiuchus</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>01:19 – 04:30</b> Transit: <b>04:00   44°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center; font-size: small;">FOV 0.73 x 0.49° - RA 17hr 14' 04", DEC -12° 54' 37"</p>

# Prospective Imaging Objects – April

<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>12:19 – 04:30</b> Transit: <b>04:03   80°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-9</b>(NGC-6333) Config:  C11- HD <b>FR</b> 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>*02:03 – 04:30</b> Transit: <b>04:05   38°</b></p>	<p><b>C-11 HD: Focal Reducer</b></p> <p>FOV 1.04 x 0.70° • RA 17hr 18' 24", DEC -18° 34' 58"</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>*02:03 – 04:30</b> Transit: <b>04:05   38°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – April

<p><b>Pipe Nebula</b> (LDN 1773) Config:  C11- HD FR ZWO6200MC </p> <p>Type: <b>Dark Nebula</b></p> <p>Constellation: <b>Ophiuchus</b> Coordinates: <b>17h 20' 10"</b> <b>-26° 50' 18"</b></p> <p>Close Star: <b>SAO-184415</b> (Antares)</p> <p>Catalog Objects: <a href="#">LDN-1773</a> Imaging Window: *<b>02:27 – 04:30</b> Transit: <b>04:07   30°</b></p>	<p><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Pipe Nebula</b> (LDN 1773) Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Dark Nebula</b></p> <p>Constellation: <b>Ophiuchus</b> Coordinates: <b>17h 19' 54"</b> <b>-26° 52' 60"</b></p> <p>Close Star: <b>SAO-184415</b> (Antares)</p> <p>Catalog Objects: <a href="#">LDN-1773</a> Imaging Window: *<b>02:27 – 04:30</b> Transit: <b>04:07   30°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p>  <p><small>Pipe Nebula in Ophiuchus C-11 HyperStar, 6490nm, 43min.</small></p> <p><small>James Yellier 2018.05.15</small></p>



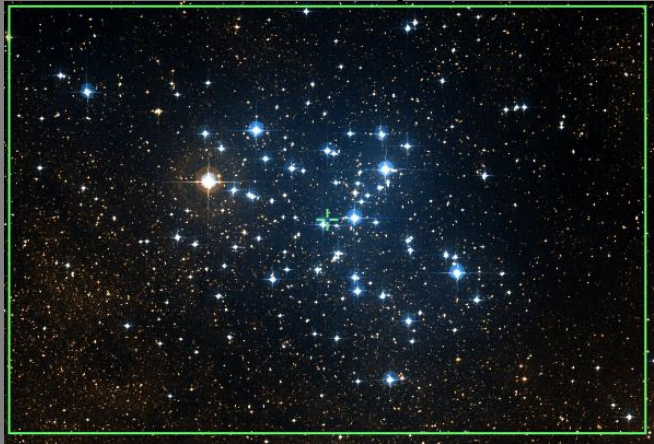




# Prospective Imaging Objects – April

<p><b>The Snake Nebula (B-72)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Dark Nebula</b></p> <p>Constellation: <b>Ophiuchus</b>            Coordinates:  <b>17h 25' 49"</b>  <b>-23° 58' 05"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi)            Catalog Objects: <a href="#">B-72</a>/LDN-66            Imaging Window: *01:59 – 04:30            Transit: 04:10   33°</p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>The Snake Nebula (B-72)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Dark Nebula</b></p> <p>Constellation: <b>Ophiuchus</b>            Coordinates:  <b>17h 24' 19"</b>  <b>-23° 39' 06"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi)            Catalog Objects: <a href="#">B-72</a>/LDN-66            Imaging Window: *01:59 – 04:30            Transit: 04:10   33°</p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p><small>The Snake Nebula            Constellation: Ophiuchus            RA = 17h 25m 49s, DEC = -23deg 58' 05"</small></p>
<p><b>Bat'leth (B-75)</b>            Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Dark Nebula</b></p> <p>Constellation: <b>Ophiuchus</b>            Coordinates:  <b>17h 25' 22"</b>  <b>-22° 04' 05"</b></p> <p>Close Star: <b>SAO-184415</b> (Antares)            Catalog Objects: <a href="#">B-75</a>/LDN-112            Imaging Window: *02:40 – 04:30            Transit: 04:11   35°</p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> <p style="text-align: center;">FOV 1.04 x 0.70° - RA 17hr 25' 22", DEC -22° 04' 05"</p> 

# Prospective Imaging Objects – April

<p><b>Little Ghost</b> (NGC-6369) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Ophiuchus</b> Coordinates: <b>17h 29' 20"</b> <b>-23° 45' 33"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi) Catalog Objects: <a href="#">NGC-6369</a> Imaging Window: *<b>02:07 – 04:30</b> Transit: <b>04:15   33°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-14</b>(NGC-6402) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Ophiuchus</b> Coordinates: <b>17h 37' 36"</b> <b>-03° 14' 43"</b></p> <p>Close Star: <b>SAO-160006</b> (zeta Ophi) Catalog Objects: <a href="#">M-14</a>/NGC-6402 Imaging Window: <b>02:03 – 04:30</b> Transit: <b>04:24   53°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Butterfly Cluster</b>(M-6) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Scorpius</b> Coordinates: <b>17h 40' 20"</b> <b>-32° 15' 30"</b></p> <p>Close Star: <b>SAO-210091</b> (Kaus Aus..) Catalog Objects: <a href="#">M-6</a>/NGC-6405 Imaging Window: *<b>02:48 – 04:30</b> Transit: <b>04:26   24°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – April

## Praying Matis Nebula (B-84)

Config: |C11HD|ZWO6200MC|

Type: **Dark Nebula**

Constellation: **Sagittarius**

Coordinates:  
**17h 46' 24"**  
**-20° 08' 31"**

Close Star: **SAO-210091** (Kaus Aus..)

Catalog Objects: [B-84](#)/LDN-235

Imaging Window: \***02:44 – 04:30**

Transit: **04:33 | 36°**

## C-11 HD: Primary Focus



## Box Nebula (NGC-6445)

Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Sagittarius**

Coordinates:  
**17h 49' 15"**  
**-20° 00' 32"**

Close Star: **SAO-210091** (Kaus Aus..)

Catalog Objects: [NGC-6445](#)

Imaging Window: **02:40 – 04:30**

Transit: **04:35 | 37°**

## C-11 HD: Primary Focus



Blank  
Page

# Prospective Imaging Objects – April

## Imaging Summary April 15, 2025

Astronomical Dusk = 20:26

Astronomical Dawn = 04:30

### HyperStar: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Nebula	Nebula	SH 2-1	*12:54-04:30	02:45	30	Scorpius: Diffuse Nebula
HyperStar	Nebula	Nebula	IC-4592	*12:58-04:30	02:59	32	Scorpius: Blue Horsehead Nebula
HyperStar	Nebula	Nebula	IC-4604	*01:40-04:30	03:12	34	Comp2! Scorpius: Ophiuchus Complex

### HyperStar: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Broad Spectrum	Galaxies	M-81 & M-82	08:26 – 12:00	08:43	02	Ursa Major: Bode's Cigar
HyperStar	Broad Spectrum	Galaxies	2574 Group	08:26 – 12:39	09:16	06	Leo: Galaxy Group 2574
HyperStar	Broad Spectrum	Galaxies	Leo Group	08:26 – 12:30	09:34	06	Leo: Leo Galaxy Group
HyperStar	Broad Spectrum	G, PN	M-108 & M-97	08:26 – 01:51	09:59	08	Ursa Major: Galaxy & Planetary Nebula
HyperStar	Broad Spectrum	Galaxies	Group 106	08:26 – 02:59	11:06	14	Canes Venatici: Galaxy Group with M-106
HyperStar	Broad Spectrum	Galaxies	Group 84	08:26 – 02:11	11:12	16	Virgo: Markarian Chain
HyperStar	Broad Spectrum	Galaxies	Group 84-2	08:26 – 02:11	11:12	16	Virgo: Markarian Chain
HyperStar	Broad Spectrum	Galaxies	Group 58	08:26 – 02:21	11:24	20	Virgo: Galaxy Group associated with M-58
HyperStar	Broad Spectrum	Dark Neb	M-62 Region	*02:48-04:30	03:47	36	Ophiuchus: NGC-6266 & Dark Nebula
HyperStar	Broad Spectrum	Dark Neb	LDN-1773	*02:27-04:30	04:07	30	Ophiuchus: Pipe Nebula
HyperStar	Broad Spectrum	Dark Neb	LDN-42	*02:23-04:30	04:19	40	Ophiuchus: Comp 4! Dark Horse Nebula
HyperStar	Broad Spectrum	Dark Neb	LDN-42	*02:23-04:30	04:19	40	Ophiuchus: Comp 2! Dark Horse Nebula
HyperStar	Broad Spectrum	Dark Neb	B-72	*01:59-04:30	04:10	41	Ophiuchus: Snake Nebula

# Prospective Imaging Objects – April

## Imaging Summary April 15, 2025

Astronomical Dusk = 20:26

Astronomical Dawn = 04:30

### Focal Reducer: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Nebula	Nebula	SH 2-9	*01:15-04:30	03:07	33	Scorpius: Diffuse Nebula and Star

### Focal Reducer: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Broad Spectrum	Galaxies	M-81 & M-82	08:25 – 12:00	08:43	02	Ursa Major: Rot90° Bode's Cigar
Focal Reducer	Broad Spectrum	Galaxies	M-95 & M-96	08:25 – 12:27	09:31	07	Leo: Galaxy Pair M-95, M-96
Focal Reducer	Broad Spectrum	Galaxies	NGC-3628 et. El.	08:26 – 01:08	10:07	09	Comp2 Leo: Lio Trio of Galaxies
Focal Reducer	Broad Spectrum	Galaxies	M-106	08:26 – 02:59	11:06	14	Canes Venatici: Galaxy Pair
Focal Reducer	Broad Spectrum	Galaxies	M-84 et. El.	08:26 – 02:11	11:12	16	Virgo: Markarian's Chain
Focal Reducer	Broad Spectrum	Galaxies	NGC4631, 4656	08:26 – 03:08	11:29	22	Canes Venatici: Whale and Hockey Stick
Focal Reducer	Broad Spectrum	Galaxies	M-59 Group	08:39 – 02:24	11:29	22	Virgo: Galaxy Group M-59 & M-60
Focal Reducer	Broad Spectrum	Galaxies	NGC-4725 et. El.	08:26 – 03:05	11:37	23	Coma Berenices: Galaxy Group NGC-4725
Focal Reducer	Broad Spectrum	Galaxies	Abell-1656	08:26 – 03:19	11:47	25	Coma Berenices: Coma Galaxy Cluster
Focal Reducer	Broad Spectrum	DN, GC	M-9	*02:03-04:30	04:05	38	Ophiuchus: Globular M-9 and Dark Nebula
Focal Reducer	Broad Spectrum	DN	LDN-1773	*02:27-04:30	04:07	39	Ophiuchus: Pipe Nebula
Focal Reducer	Broad Spectrum	DN	B-72	*01:59-04:30	04:10	41	Ophiuchus: Snake Nebula
Focal Reducer	Broad Spectrum	DN	B-75	*02:40-04:30	04:11	41	Ophiuchus: Bat'leth

# Prospective Imaging Objects – April

## Imaging Summary April 15, 2025

Astronomical Dusk = 20:26

Astronomical Dawn = 04:30

### Primary Focus: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	PN	NGC-3242	*08:26-11:17	09:12	05	Hydra: Ghost of Jupiter
Primary Focus	Nebula	PN	M-97	08:26 – 01:54	10:02	08	Ursa Major: Owl Nebula
Primary Focus	Nebula	PN	NGC-4361	*09:07-01:19	11:11	15	Corvus: Lawn Sprinkler Nebula
Primary Focus	Nebula	PN	IC-3568	*08:26-04:13	11:20	18	Camelopardalis: Lemon Slice Nebula
Primary Focus	Nebula	PN	IC-4593	12:08 – 04:30	02:58	32	Hercules: White Eyed Pea Planetary Nebula
Primary Focus	Nebula	PN	Abell-39	11:48 – 04:30	03:14	34	Hercules: Perfect Planetary Nebula
Primary Focus	Nebula	PN	NGC-6210	12:13 – 04:30	03:31	35	Hercules: Turtle Nebula
Primary Focus	Nebula	PN	NGC-6309	*01:19-04:30	04:00	37	Ophiuchus: Small PN Box Nebula
Primary Focus	Nebula	PN	NGC-6369	*02:07-04:30	04:15	42	Ophiuchus: Little Ghost Nebula
Primary Focus	Nebula	PN	NGC-6445	02:40 – 04:30	04:35	43	Sagittarius: Box Nebula

# Prospective Imaging Objects – April

## Imaging Summary April 15, 2025

Astronomical Dusk = 20:26

Astronomical Dawn = 04:30

### Primary Focus: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	M-81	08:26 – 12:03	08:43	02	Ursa Major: Bode's Nebula
Primary Focus	Broad Spectrum	Galaxy	M-82	08:26 – 12:00	08:43	03	Ursa Major: Cigar Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-3115	*08:26-11:57	08:53	03	Sextans: Spindel Galaxy
Primary Focus	Broad Spectrum	Galaxy	UGC-5470	08:26 – 11:53	08:56	03	Leo: Powder Keg Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-3166, 3169	08:26 – 11:28	09:01	04	Sextans: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	Hickson 44	08:26 – 12:26	09:05	04	Leo: Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxy	NGC-3184	08:26 – 12:55	09:06	04	Ursa Major: Face On galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC 3227, 3226	08:26 – 12:27	09:11	05	Leo: Interacting galaxy pair
Primary Focus	Broad Spectrum	Galaxy	IC-2574	08:26 – 12:39	09:16	06	Leo: Coddington's Nebula
Primary Focus	Broad Spectrum	Galaxies	Leo Trio 2	08:26 – 12:33	09:35	07	Leo: NGC-3379, 3384, 3389
Primary Focus	Broad Spectrum	Galaxies	NGC-3561 et. El.	08:26 – 01:32	09:58	07	Ursa Major: Ambartsumian's Knot
Primary Focus	Broad Spectrum	Galaxy	M-108	08:26 – 01:51	09:59	08	Ursa Major: Med Galaxy NGC-3556
Primary Focus	Broad Spectrum	Galaxies	M-65 et. El.	08:26 – 01:08	10:07	09	Comp2 Leo: Lio Trio of Galaxies
Primary Focus	Broad Spectrum	Galaxy	NGC-3628	08:26 – 01:08	10:07	09	Leo: Edge on galaxy
Primary Focus	Broad Spectrum	Galaxies	M-65, M-66	08:26 – 01:06	10:06	10	Leo: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	Arp-214	08:26 – 02:13	10:20	10	Ursa Major: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	NGC-3746 et. El.	08:26 – 01:46	10:25	10	Leo: Copeland's Septet
Primary Focus	Broad Spectrum	Galaxies	Abell 1367	08:26 – 01:49	10:32	11	Leo: Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxies	Arp-248	*08:26-12:58	10:34	11	Ursa Major: Wild's Triplet
Primary Focus	Broad Spectrum	Galaxy	M-109	08:26 – 02:38	10:45	11	Ursa Major: Face On Med Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4027	*08:47-12:46	10:46	12	Corvus: Irregular small Galaxy
Primary Focus	Broad Spectrum	Galaxies	Arp-244	*08:47-12:58	10:49	12	Corvus: Antennae Galaxies
Primary Focus	Broad Spectrum	Galaxy	M-98	08:26 – 02:05	11:01	12	Coma Berenices: Barred Spiral Galaxy NGC-4192
Primary Focus	Broad Spectrum	Galaxy	NGC-4236	07:52 – 02:22	11:04	13	Draco: Galaxy NGC-4236



# Prospective Imaging Objects – April

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	NGC-4244	08:26 – 02:50	11:04	13	Canes Venatici: Silver Needle Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-99	08:26 – 02:09	11:06	13	Coma Berenices: St. Katherines Wheel
Primary Focus	Broad Spectrum	Galaxy	M-61	08:44 – 01:40	11:09	14	Virgo: Sm/Med Face-on Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	Winnecke 4	08:26 – 02:59	11:09	15	Ursa Major: Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxies	M-100	08:26 – 02:17	11:10	15	Coma Berenices: Face on Galaxy & other galaxies
Primary Focus	Broad Spectrum	Galaxy	NGC-4449	08:26 – 03:06	11:15	17	Candes Venatici: Irregular Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-49	08:39 – 02:01	11:17	17	Virgo: Elliptical Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-87	08:26 – 02:15	11:18	17	Virgo: Elliptical Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4490	08:26 – 03:07	11:17	18	Canes Venatici: Cocoon Galaxy
Primary Focus	Broad Spectrum	Galaxies	M-91	08:26 – 02:26	11:22	18	Coma Berenices: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	M-89	08:26 – 02:21	11:23	19	Virgo: Elliptical Galaxy & two others
Primary Focus	Broad Spectrum	Galaxy	NGC-4559	08:26 – 02:55	11:23	19	Coma Berenices: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-4567 et. El.	08:26 – 02:18	11:23	19	Virgo: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	NGC-4565	08:26 – 02:52	11:23	20	Coma Berenices: Edge on Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-90	08:26 – 02:24	11:24	20	Virgo: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	M-58	08:26 – 02:21	11:24	21	Virgo: Barred Spiral Galaxy NGC-4579
Primary Focus	Broad Spectrum	Globular	M-68	*09:44-01:10	11:26	21	Hydra: Med Globular Cluster
Primary Focus	Broad Spectrum	Galaxy	M-104	*09:19-01:39	11:27	21	Virgo: Sombrero Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-4676 A&B	08:26 – 03:10	11:33	22	Coma Berenices: The Mice
Primary Focus	Broad Spectrum	Galaxies	NGC-4725	08:26 – 03:05	11:37	23	Coma Berenices: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	M-94	08:26 – 03:27	11:38	23	Canes Venatici: Bright Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-4731	*10:12-01:10	11:38	24	Virgo: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-4762, 4754	08:26 – 02:34	11:40	24	Virgo: Edge on and Elliptical galaxies
Primary Focus	Broad Spectrum	Galaxy	M-64	08:26 – 03:04	11:44	24	Coma Berenices: Bright Galaxy
Primary Focus	Broad Spectrum	Galaxies	Abell-1656	08:26 – 03:19	11:47	25	Coma Berenices: Coma Galaxy Cluster
Primary Focus	Broad Spectrum	Globular	M-53	08:26 – 03:13	12:00	25	Coma Berenices: Med Globular
Primary Focus	Broad Spectrum	Galaxy	NGC-5033	08:26 – 03:45	12:00	26	Canes Venatici: Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-63	08:26 – 03:53	12:03	26	Canes Venatici: Sunflower Galaxy

# Prospective Imaging Objects – April

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Globular	NGC-5053	08:58 – 03:15	12:03	26	Coma Berenices: Loose Globular
Primary Focus	Broad Spectrum	Galaxy	M-51	08:30 – 04:10	12:17	27	Canes Venatici: Whirlpool Galaxy
Primary Focus	Broad Spectrum	Globular	M-3	09:02 – 04:02	12:29	27	Canes Venatici: Med Globular NGC-5272
Primary Focus	Broad Spectrum	Galaxy	NGC-5395 et. El.	09:06 – 04:30	12:45	27	Canes Venatici: Heron Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-101	09:03 – 04:30	12:50	28	Ursa Major: Pinwheel Galaxy
Primary Focus	Broad Spectrum	Globular	NGC-5466	09:25 – 04:26	12:52	28	Bootes: Med Globular
Primary Focus	Broad Spectrum	Galaxy	M-102	10:07 – 04:30	01:53	28	Draco: Spindel Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-5905, 5908	10:16 – 04:30	02:02	29	Draco: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxy	NGC-5907	10:17 – 04:30	02:02	29	Draco: Splinter Galaxy
Primary Focus	Broad Spectrum	Globular	M-5	11:50 – 04:27	02:05	29	Serpens: Med Globular
Primary Focus	Broad Spectrum	Galaxy	NGC-5985 Et. El.	10:44 – 04:30	02:26	30	Draco: Draco Trio
Primary Focus	Broad Spectrum	Galaxy	NGC-6027 A-E	11:34 – 04:30	02:45	30	Serpens: Sefert's Sextet
Primary Focus	Broad Spectrum	Galaxy	Abell 2151	11:46 – 04:30	02:52	31	Hercules: Hercules Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxy	NGC-6058	11:09 – 04:30	02:51	31	Hercules: Small Planetary Nebula
Primary Focus	Broad Spectrum	Galaxy	Arp-188	11:07 – 04:30	02:52	31	Draco: Tadpole Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-80	*12:46-04:30	03:03	32	Scorpius: Med Globular Cluster
Primary Focus	Broad Spectrum	Galaxy	M-4	*01:23-04:30	03:10	33	Scorpius: Large Globular Cluster
Primary Focus	Broad Spectrum	Globular	M-107	*12:42-04:30	03:19	35	Ophiuchus: Sm/Met Globular Cluster
Primary Focus	Broad Spectrum	Globular	M-13	13:50 – 04:30	03:28	35	Hercules: Hercules Cluster
Primary Focus	Broad Spectrum	Globular	M-12	01:39 – 04:30	03:33	36	Ophiuchus: Med Globular Cluster NGC-6218
Primary Focus	Broad Spectrum	Globular	M-10	02:02 – 04:30	03:43	36	Ophiuchus: Med Globular Cluster NGC-6254
Primary Focus	Broad Spectrum	Globular	M-62	*02:48-04:30	03:47	37	Ophiuchus: Med/Large Globular NGC-6266
Primary Focus	Broad Spectrum	Globular	M-19	*02:07-04:30	03:49	37	Ophiuchus: Med/Large Globular NGC-6273
Primary Focus	Broad Spectrum	Globular	M-92	12:19 – 04:30	04:03	38	Hercules: Med Globular NGC-6341
Primary Focus	Broad Spectrum	Globular	M-9	*02:03-04:30	04:05	38	Ophiuchus: Med Globular NGC-6333
Primary Focus	Broad Spectrum	Globular	M-14	02:03 – 04:30	04:24	42	Ophiuchus: Med Globular NGC-6402
Primary Focus	Broad Spectrum	OC	M-6	*02:48-04:30	04:26	42	Scorpius: Butterfly Cluster
Primary Focus	Broad Spectrum	DN	B-84	*02:44-04:30	04:33	43	Sagittarius: Praying Matis Nebula

# Prospective Imaging Objects – April