

# 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




Sculptor Galaxy (NGC 253)  
 Constellation: Sculptor

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




# 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) 2020 12-03 2020 12-03 Location: Chandler, AZ            Config: C-11HD   HyperStar V4 LPS-D, CLS-CXD, GHY-12K;            Constellation: Ursa Major            Exposure Info: 600mag@f8.0, 240mag@f8.0 (Gain: 1200, Offset: 10)            RA = 09h 54m 43.87s DEC = +68deg 53' 43.73" Size = 3.14 x 2.09 deg Orientation: 3.61 deg 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;">FOV 1.04 x 0.69° · RA 09hr 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            James Yoder 2015.11.14</p>



# Prospective Imaging Objects – April

<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) Copyright: James Yoder</p> <p style="font-size: x-small; text-align: right;">James Yoder 2017.03.24</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) Copyright: James Yoder</p> <p style="font-size: x-small; text-align: right;">James Yoder 2017.03.24</p>




# Prospective Imaging Objects – April

<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   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   79°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">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, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, 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   82°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">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, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the author.</small></p>




# Prospective Imaging Objects – April

<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 = 18.3 x 13.9 arcmin (Orientation: 40 deg E of N), Pixel scale = 0.276 arcsec/pixel (FL=2000mm)</span> <span style="float: right;">James Yoder   Danco   2020.12.09.10   Location: Chandler, AZ              Config:  C-11 HD XPT Focul Ultra   ZWO6200MC             Exposure 16s   34 f/raa@24mm   Gain: 100   OISet: 50</span> </p>


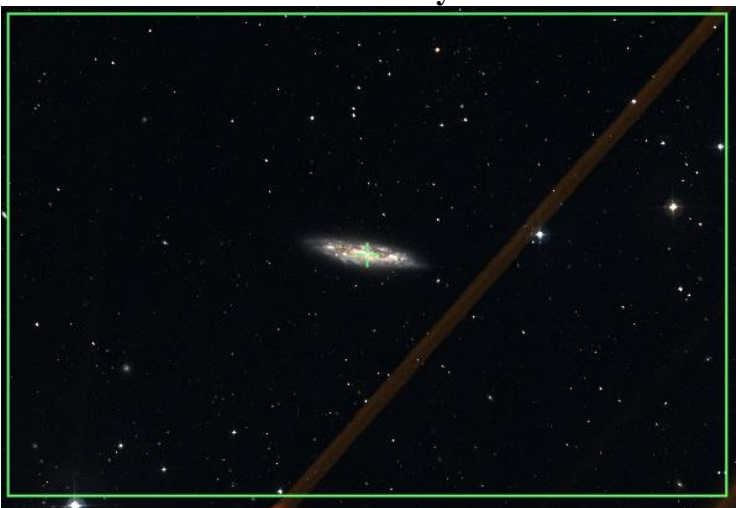

# Prospective Imaging Objects – April

<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   Constellation: Ursa Major   Config:  C-11 HD Baader Skyglow   QHY126c   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  <small>James Yoder. 2018.04.17</small></p>

# Prospective Imaging Objects – April




<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            Photo: 10h 45m 20.0s, 11° 44' 30.0" (RA/Dec) (Photo scale = 0.179 arcseconds)            James Yoder (2025-03-22) Location: Mountain View, CA            Imaging: C-11 HD/76mm F8.3            Exposure: 300s (15min) Gain: 520e Offset: 100</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> 

# Prospective Imaging Objects – April




<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 Astronomik CLS-CCD QHY129c-             Exposure Info:  147frames 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 48.22s DEC = +55deg 01' 10.11s] Size = 4.01 x 1.11 arcmin   Pixel scale = 0.840 arcsec/pixel</small></p> <p>James Yoder 2020 04 03  <small>Location: Chandler, AZ            Config:  C-11 HD Astronomik CLS-CCD QHY129c-             Exposure Info:  20frames 1min  Gain: 1000  Offset: 180  </small></p>






# Prospective Imaging Objects – April

<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 style="text-align: center;"><b>C-11 HD: Primary Focus <b>Mosaic</b></b></p>  <p style="font-size: small;">Leo Trio of Galaxies (NGC-3628, NGC-3623, NGC-3627)  <small>James Yoder / Drones 2025 04 14 20:00:00 (1) Location: Chandler, AZ            Config: C11-HD / 47 Reducer / Filter: Baader Sg510a / Camera: QHY128C            Exposure Info: 0.08000000 / Gain: 3200 / Offset: 100</small></p>
<p><b>Lio Trio of Galaxies</b>            Config: <b>C11-HD   HS   ZWO6200MC</b></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 style="text-align: center;"><b>C-11 HD: <b>Focal Reducer Composite!</b></b></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 style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC-3628            Edge-On Galaxy  <small>James Yoder            2015 04 19</small></p>

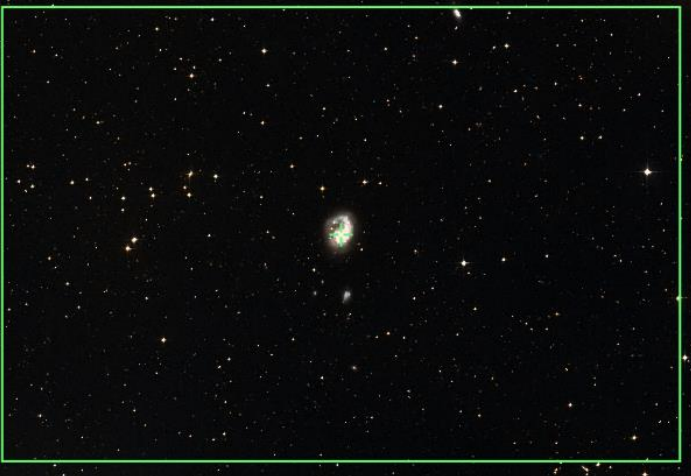

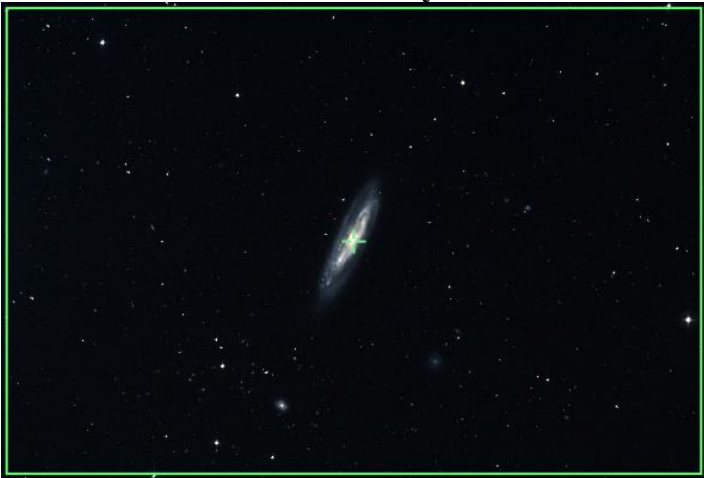
# Prospective Imaging Objects – April

<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 10.13s DEC = 53deg 04' 44.800" 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            Location: Chandler, AZ            Config:  C-11 HD (Astronomik CLS-CCD) QHY128c             Exposure Info: (44img/30m   Gain: 3200   105Sec. 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>            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><small>Galaxy Cluster Abell-1367 (ABCD-1367) Copyright © 2017 Sky &amp; Telescope Magazine, Inc. All rights reserved. For more information, visit <a href="#">www.skyandtelescope.com</a></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> 



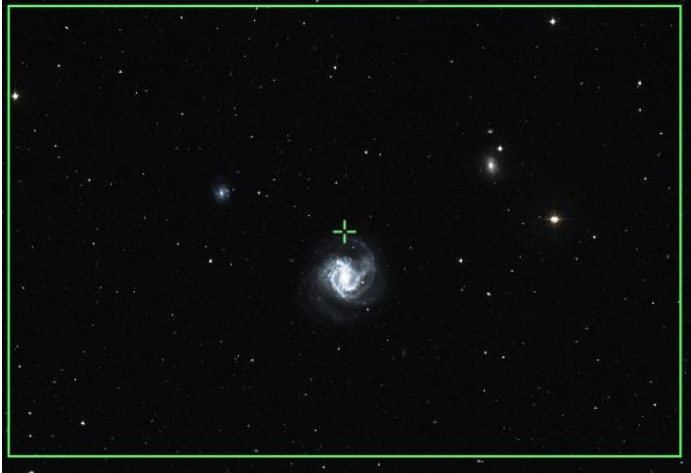
# Prospective Imaging Objects – April

<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: *<b>08:47 – 12:46</b> Transit: <b>10:46</b>   <b>37°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  A photograph of the NGC-4027 galaxy, a small, irregularly shaped galaxy with a bright central core and a diffuse, irregular structure. The galaxy is centered in the frame against a dark background filled with numerous stars. The image is framed by a green border.
<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>08:47 – 12:58</b> Transit: <b>10:49</b>   <b>38°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  A photograph of the Antennae Galaxies (Arp-244), a pair of interacting galaxies. The galaxies are in the process of merging, with long, curved tails of stars extending from their cores. The image is centered in the frame against a dark background filled with stars. The image is framed by a green border.
<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>08:26 – 02:05</b> Transit: <b>11:01</b>   <b>72°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  A photograph of the M-98 galaxy (NGC-4192), a barred spiral galaxy. The galaxy has a prominent central bar and several spiral arms. The image is centered in the frame against a dark background filled with stars. The image is framed by a green border.

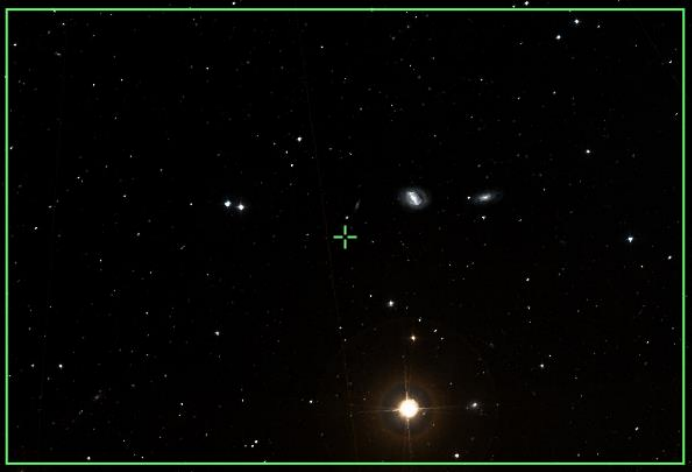


# Prospective Imaging Objects – April

<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><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> 


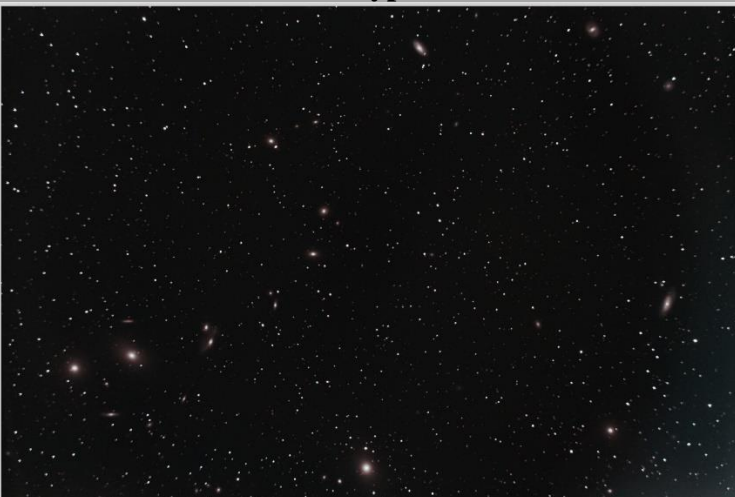
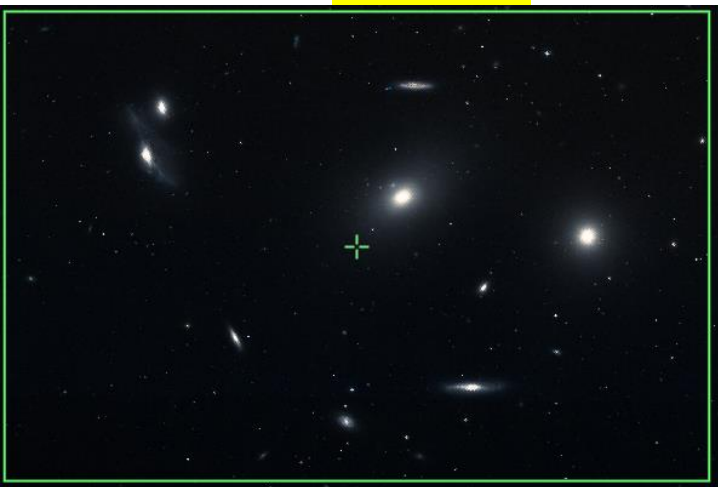
# Prospective Imaging Objects – April

<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 <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>08:26 – 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


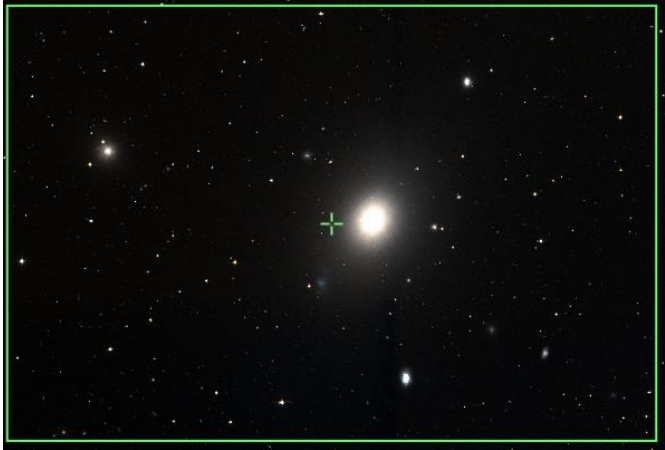

<p><b>Winnecke 4</b>(M-40) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Ursa Major</b> Coordinates: <b>12h 21' 22"</b> <b>58° 03' 05"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda) Catalog Objects: <a href="#">M-40</a>, NGC-4290, NGC-4284 Imaging Window: <b>08:26 – 02:59</b> Transit: <b>11:09</b>   <b>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</b>   <b>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</b>   <b>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 Consultation: Optimize Coordinates: RA=18h 24m 31s, DEC=-18d 47m 03s, Size=27x18 arcsec, Orientation: Mag 6.47, Pixel Scale=0.27 arcsec/pixel, F1.50mm</p> <p style="font-size: x-small;">Astronomical Society of the Pacific © 2025 All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the publisher.</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 FR 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: Focal Reducer</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/UGC-7592</a> 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' 42.7", Size = 21.6 x 17.3 arcmin, Orientation: Mag 1.075   Pixel scale = 0.277"/pixel (f1=200mm) Date/Time/Dir: 2025/02/26 00:00:00   Location: Canada, AZ Eq.   C-11 HD Mod.   Filter: ZWO6200MC   Exposure: 10s   F5 Filter/Pass: 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/NGC-4472</a> 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/NGC-4486</a> 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> 


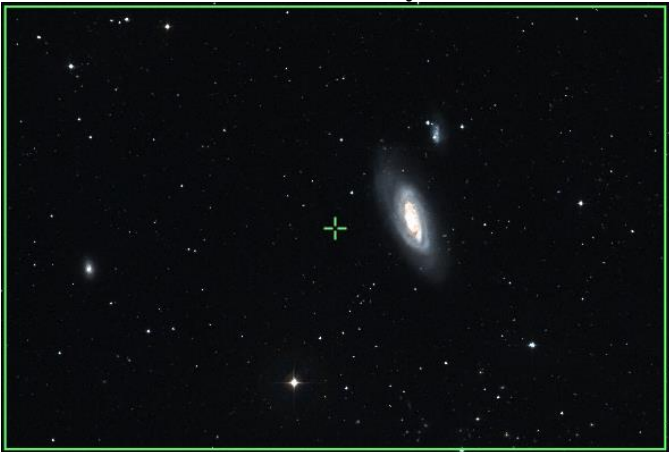

# Prospective Imaging Objects – April

<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 style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: 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/pix FL=2750mm James Voderl (Duxis) 2020-02-02 - 2020-02-07 Location: Chandler, AZ Config: C-11 HD (Ranch Skyline) QSI128L Exposure Info: 7x600s@8mm Gain: 1200 Offset: 100</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 style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Planetary Nebula IC-3568 Constellation: Camelopardalis RA = 12h 33m 14.00s DEC = +82deg 33' 22.00" Size = 21.0 arcmin Orientation: 0.00deg E of N Pixel scale = 0.22 arcsec/pix FL=2070mm James Voderl (Duxis) 2020-02-02 - 2020-02-07 Location: Chandler, AZ Config: C-11 HD (Ranch Skyline) QSI128L Exposure Info: 7x600s@8mm Gain: 1200 Offset: 100</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 style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">M-91 (NGC-4548) Constellation: Coma Berenices RA = 12h 36m 04.00s DEC = +14deg 23' 37.00" Size = 27.0 arcmin Orientation: 0.00deg E of N Pixel scale = 0.22 arcsec/pix FL=2070mm James Voderl (Duxis) 2020-02-02 - 2020-02-07 Location: Chandler, AZ Config: C-11 HD (Ranch Skyline) QSI128L Exposure Info: 7x600s@8mm Gain: 1200 Offset: 100</p>


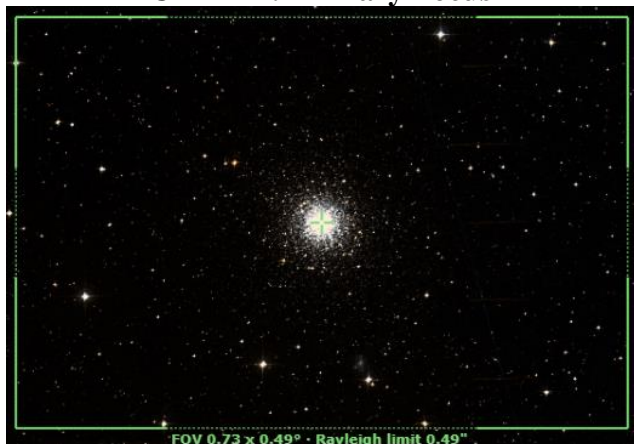

# Prospective Imaging Objects – April

<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> 



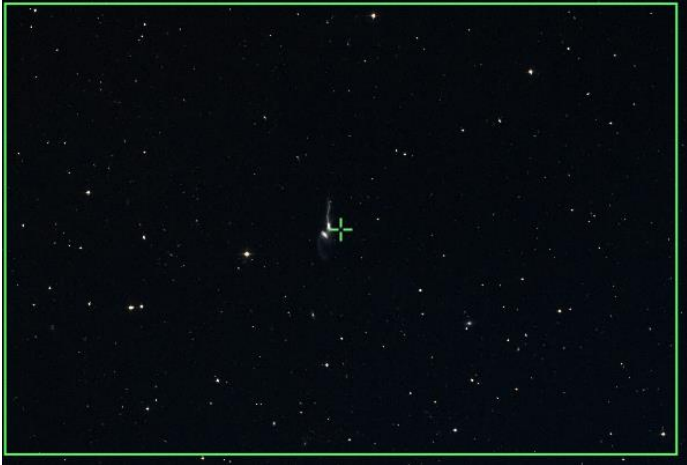
# Prospective Imaging Objects – April

<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>


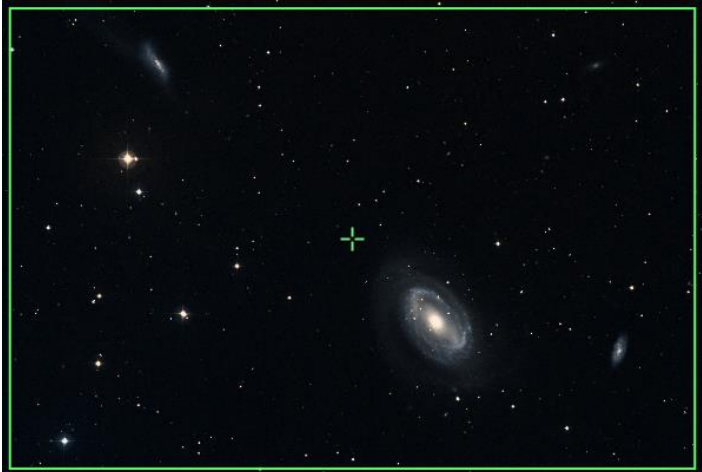
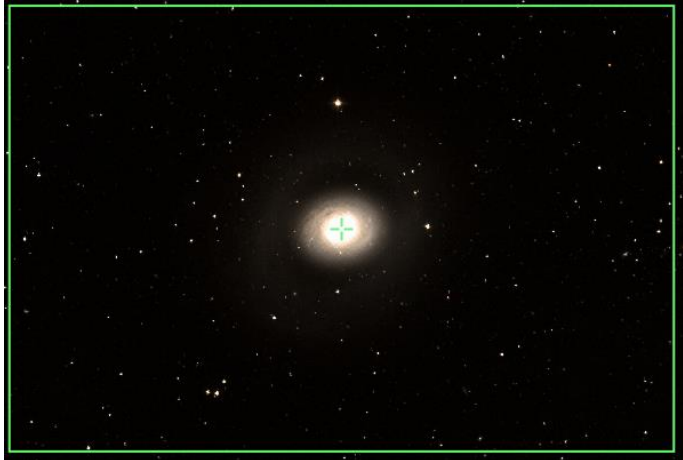
# Prospective Imaging Objects – April

<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;">M104 Sombrero Galaxy <span style="float: right;">James Yoder 2015.01.18</span></p>

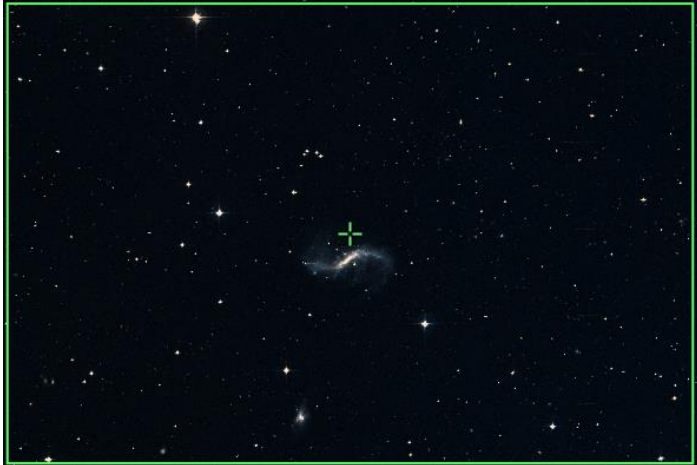
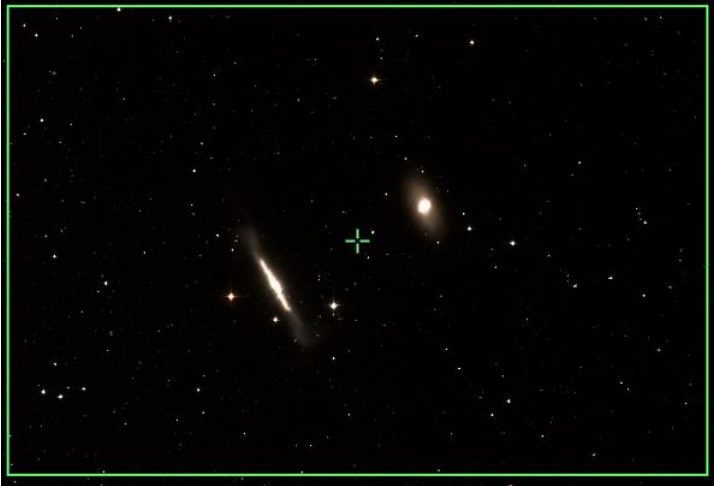
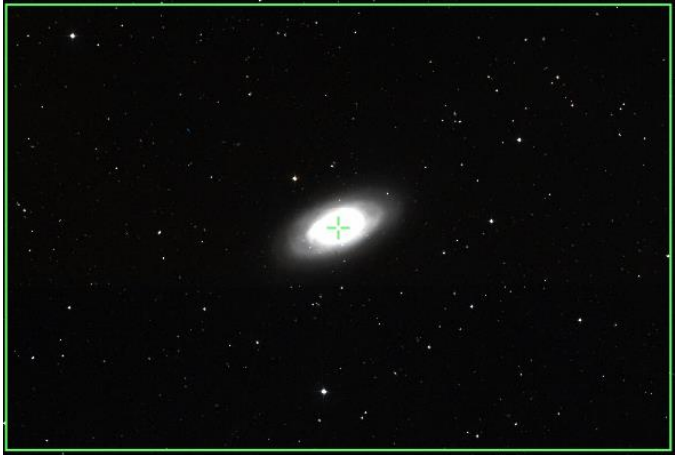
# Prospective Imaging Objects – April

<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, Flagstaff, AZ Config: C11 Starizona LP Corrector / Dualer Skyglow Filter (GRV 12c) Exposure Info: 11.0min@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   Date: 2021.04.30 - 2020.05.16   Location: Chandler, AZ Config: C11-HD   0.7 Reducer   Filter: Dualer Skyglow, RGB   Camera: ZWO ASI6200 Exposure Info: L=84min@6min, G=11min@6min, R=12min@6min, B=14min@6min   Total = 12hrs 18min Gain: 100   Offset: 50   RA = 12h 42m 40.5s DEC = +11deg 40' 19.7"   Size = 57.3 x 37.7 arcmin   Orientation = -0.2deg E of N   Pixel scale = 0.785 arcsec/pixel 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

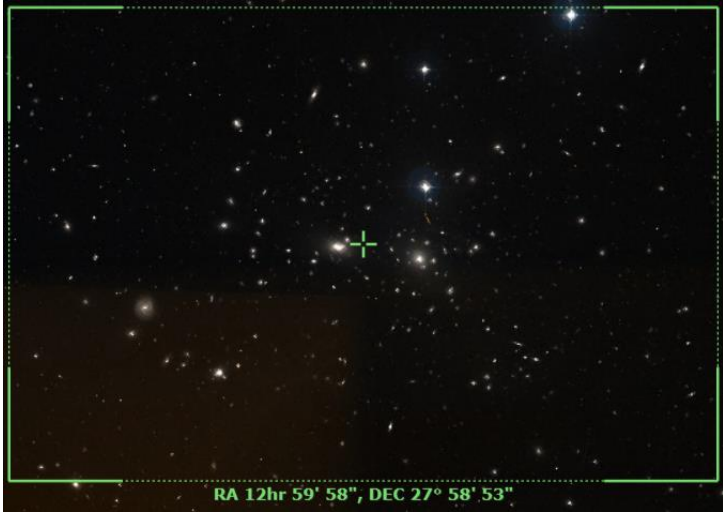


<p><b>NGC-4725</b> (PGC-43451)            Config:  C11-            HD FR ZWO6200MC </p> <p>Type: <b>Galaxy group</b></p> <p>Constellation: <b>Coma Berenices</b>            Coordinates:  <b>12h 50' 55"</b>  <b>25° 35' 59"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola)            Catalog Objects: <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>James Yoder   Date(s) 2021.01.02, 2021.01.03   Location: Chandler, AZ              Config:  C11-HD  0.7 Reducer  Filter: Baader Skyglow   Camera: QHY128C              Constellation: Coma Berenices              RA = 12h 50m 40.89s   DEC = +25deg 36' 33.3"   Size = 44.39 x 29.62 arcmin   Orientation: Obj E of N   Pixel scale = 0.630 arcsec/pixel   FL=1955mm   Exposure Info: 96frames@15sec   Gain: 3200   Offset: 100</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> 





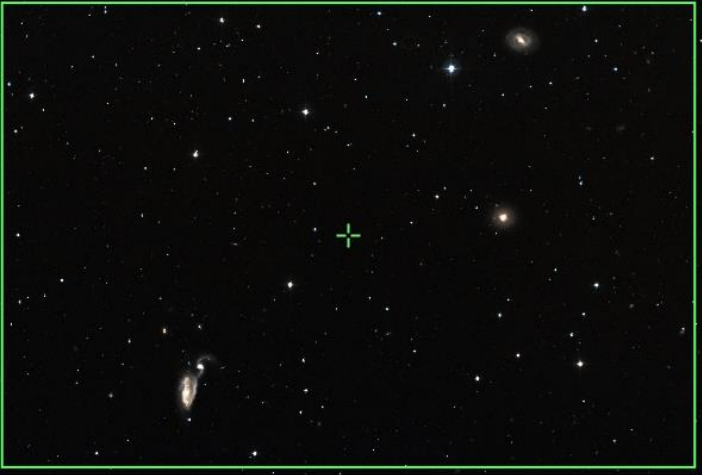
# Prospective Imaging Objects – April

<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><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> 




# 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><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> 




# 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 M51 (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 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 el.</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> 




# 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;">M-101 (Pinwheel Galaxy) with Supernova  <small>© 2017-2022, Starizona, LLC. 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 and retrieval system, without the prior written permission of Starizona, LLC.</small></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;">Globular Cluster NGC-5466  <small>© 2017-2022, Starizona, LLC. 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 and retrieval system, without the prior written permission of Starizona, LLC.</small></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;">Spindle Galaxy (M-102/NGC-5866)  <small>© 2017-2022, Starizona, LLC. 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 and retrieval system, without the prior written permission of Starizona, LLC.</small></p>


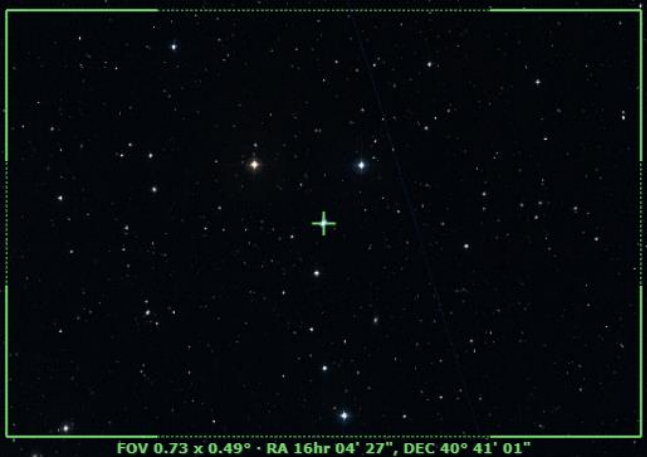

# Prospective Imaging Objects – April

<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: Drao 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:  360mm 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: Drao James Yoder   Location: Chandler, AZ   2020.01.01 Config:  C-11 HD Blander Skyglow Filter   QHY128c   Exposure Info:  360mm 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>Draco Trio</b> (NGC-5985,5982,5981) 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>10:44 – 04:30</b> Transit: <b>02:26   64°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p><small>NGC-5981, NGC-5982, NGC5985 Galaxy Cluster in Drao C-11, 1500iso, 70min James Yoder 2018.02.08</small></p>
<p><b>Sharpless 2-1</b> (SH2-1) 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>*12:54 – 04:30</b> Transit: <b>02:45   31°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p> 
<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>11:34 – 04:30</b> Transit: <b>02:45   77°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p><small>NGC-6027 (Seyfert's Sextet) Constellation: Serpens James Yoder (Dewey) 2014-05-24 22:22Z (Location: Okanogan, WA) Curtis Clark, C-11   1500iso, 4.00s, 2000x2000px   Equipment: Astrodon, Meade 8" Celestron</small></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><b>C-11 HD: Primary Focus</b></p>  <p><small>Hercules Cluster of galaxies (Abell 2151) Constellation: Hercules RA = 16h 05m 13.00s · DEC = 17° 45' 39.00" · Size = 41.8 x 37.0 arcmin · Orientation: 305deg E of N · Field scale = 0.466 arc/px</small></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><b>C-11 HD: Primary Focus</b></p>  <p><small>FOV 0.73 x 0.49 · RA 16hr 04' 27", DEC 40° 41' 01"</small></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><b>C-11 HD: Primary Focus</b></p>  <p><small>Tadpole Galaxy (ARP-188) Constellation: Draco the dragon RA = 16h 06m 04.00s · DEC = 55° 26' 07.00" · Size = 41.8 x 37.0 arcmin · Orientation: 305deg E of N · Field scale = 0.466 arc/px</small></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;">White Eyed Pea Nebula (IC-4593) Constellation: Hercules RA: 15h 11m 45.00s DEC: 12d 03m 45.00s Size: 4.50deg x 2.50deg Orientation: 0deg E of N (Polar angle = 0.00 arcsecond) FL: 2000mm Imaging: James VanDerKam 2025 04 01 - 2025 04 01 Location: Chandler AZ Config: C-11 HD (Primary Focus) - ZWO6200MC Exposure Info: 20x300s/Frame Gain: 500 (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;">Blue Horse Nebula (IC-4592) Constellation: Scorpius RA: 16h 14m 15.00s DEC: -19d 17m 16.00s Size: 3.45deg x 2.50deg Orientation: 175deg E of N (Polar angle = 2.37 arcsecond) FL: 2000mm Imaging: James VanDerKam 2025 02 21 Location: Mountain View, CA Config: C-11 HD (HyperStar V4) - ZWO6200MC Exposure Info: 20x300s/Frame Gain: 500 (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;">Globular Cluster M-80 Constellation: Scorpius RA: 16h 17m 02.00s DEC: -22d 58m 28.00s Size: 17.7 x 27.0 arcmin Orientation: 0deg E of N (Polar angle = 0.00 arcsecond) FL: 2000mm Imaging: James VanDerKam 2025 04 01 - 2025 04 01 Location: Chandler AZ Config: C-11 HD (Primary Focus) - ZWO6200MC Exposure Info: 30x300s/Frame Gain: 500 (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  
RA = 16h 23m 35.5s DEC = -26deg 31' 01.4" Size = 31.8 x 27.9 arcmin Orientation: 0 deg E of N (Polar scale = 0.002 arcsec/pixel) FC=372mm



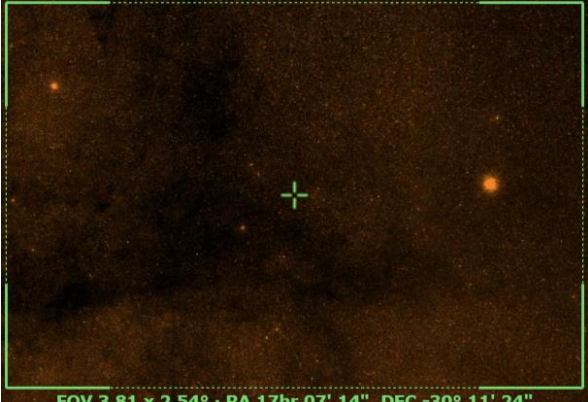
James Webb | DataID: 00204421 | 00204420 | Location: Chandler\_A2  
Config: C-11 HD Radian Starglow Filter (00Y126)  
Exposure Mode: 10Frame/Frame Count: 3000 | Offset: 180



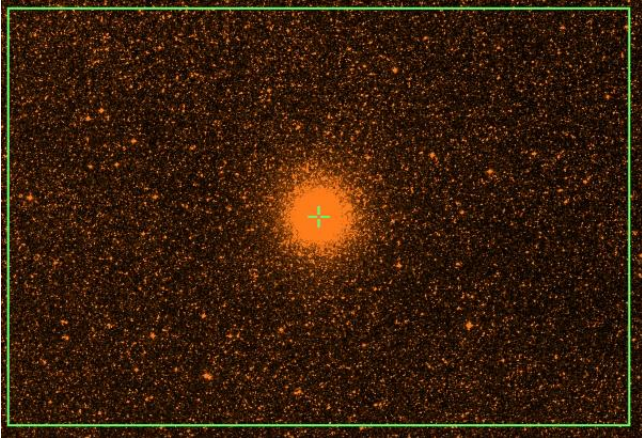

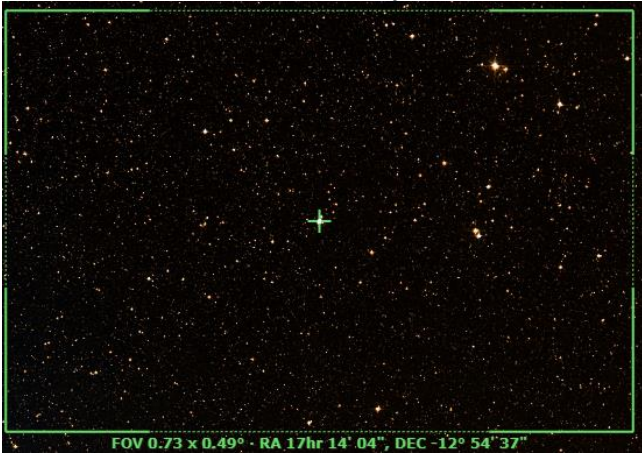
# Prospective Imaging Objects – April

<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) Constellation: Hercules Coordinates: RA: 16h 41m 41.00s Dec: 36° 27' 39.00" Mag: 1.5 - 14.5 (approx) Field Size: 1.2° x 1.2° (approx)</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 Constellation: Hercules Coordinates: RA: 16h 44m 29.00s Dec: 23° 48' 02.00" Mag: 4.0 - 14.0 (approx) Field Size: 1.2° x 1.2° (approx)</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 (Shade 16 Lighter Filter) (QHY126)   RA = 16h 47m 10.6s DEC = -01deg 57' 39.0"   Size = 37.7 x 27.8 arcmin   Orientation: 0 deg E of N   Pixel scale = 0.432 arcsec/pixel   FL=2725mm   Exposure Info: #189img/Date: Gain: 3200   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 (Shade 16 Lighter Filter) (QHY126)   RA = 16h 57m 09.0s DEC = -04deg 05' 56.0"   Size = 37.7 x 27.8 arcmin   Orientation: 0 deg E of N   Pixel scale = 0.432 arcsec/pixel   FL=2725mm   Exposure Info: #189img/Date: Gain: 3200   Offset: 180  </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>*02:48 – 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; font-size: small; color: green;">FOV 3.81 x 2.54° · RA 17hr 07' 14", DEC -30° 11' 24"</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> 

# 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 style="text-align: center;"><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 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>*02:03 – 04:30</b> Transit: <b>04:05   38°</b></p>	<p style="text-align: center;"><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: *02:27 – 04:30 Transit: 04:07   30°</p>	<p style="text-align: center;"><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: *02:27 – 04:30 Transit: 04:07   30°</p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p><small>Pipe Nebula in Ophiuchus C-11 HyperStar, 6490nm, 42min.</small></p> <p><small>James Yellier 2018.05.15</small></p>

# Prospective Imaging Objects – April

## Dark Horse Nebula (LDN 42)

Config: C11-HD | HS |  
ZWO6200MC

Type: **Dark Nebula**

Constellation: **Ophiuchus**

Frame 01

RA: 17hr 32' 42" DEC: -24° 55' 48"

Frame 02

RA: 17hr 19' 18" DEC: -24° 55' 48"

Frame 03

RA: 17hr 32' 49" DEC: -26° 57' 43"

Frame 04

RA: 17hr 19' 11" DEC: -26° 57' 43"

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

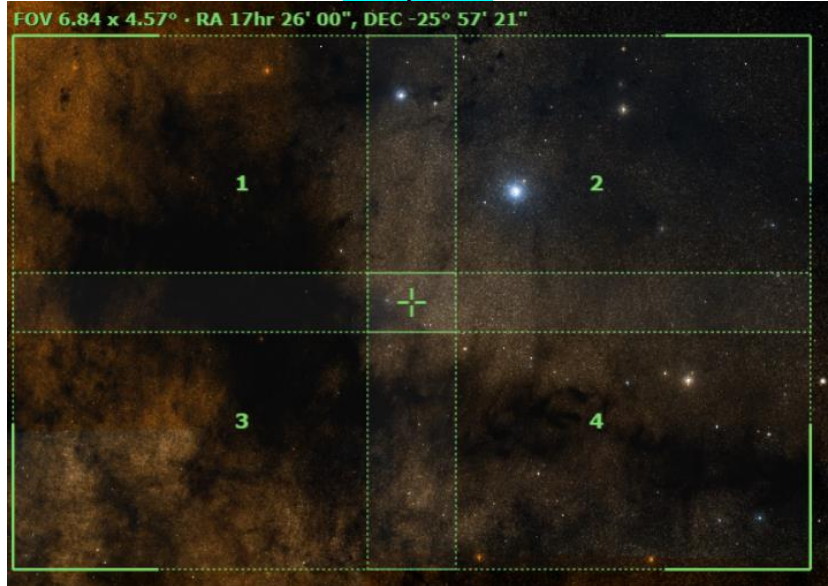
Catalog Objects: [LDN-42](#)

Imaging Window: \*02:23 – 04:30

Transit: 04:19 | 31°

C-11 HD: HyperStar v4

Composite!



## Dark Horse Nebula (LDN 42)

Config: C11-HD | HS |  
ZWO6200MC

Type: **Dark Nebula**

Constellation: **Ophiuchus**

Frame 01

RA: 17hr 33' 57" DEC: -24° 38' 08"

Frame 02

RA: 17hr 33' 57" DEC: -26° 40' 04"

Coordinates:

17h 33' 57"

-24° 38' 08"

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

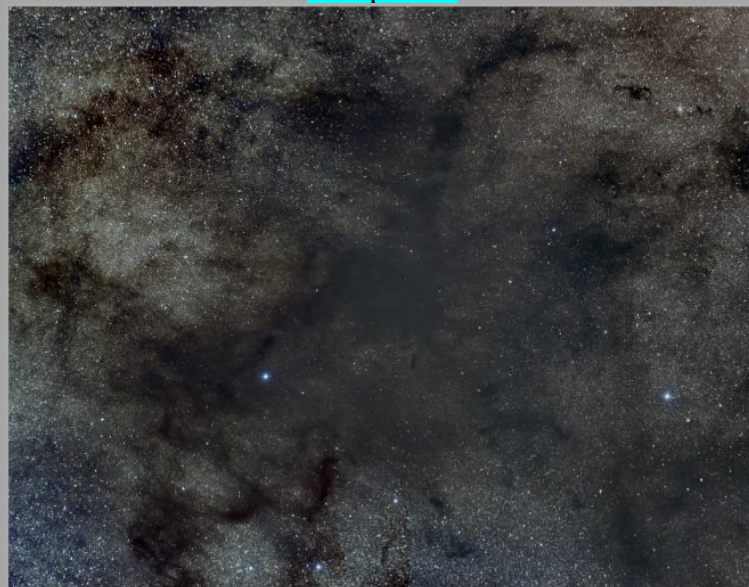
Catalog Objects: [LDN-42](#)

Imaging Window: \*02:23 – 04:30

Transit: 04:19 | 31°




C-11 HD: HyperStar v4

Composite!



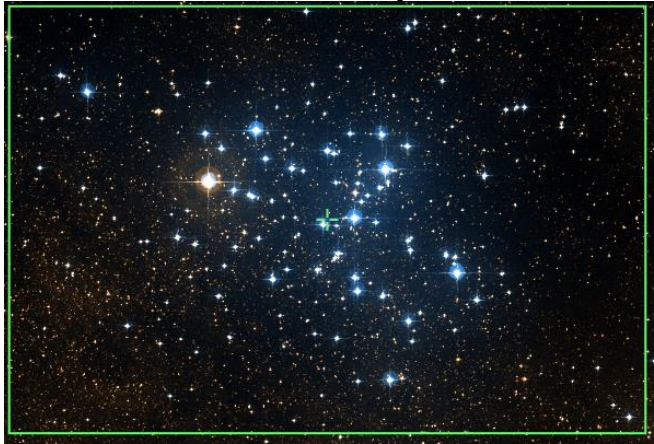




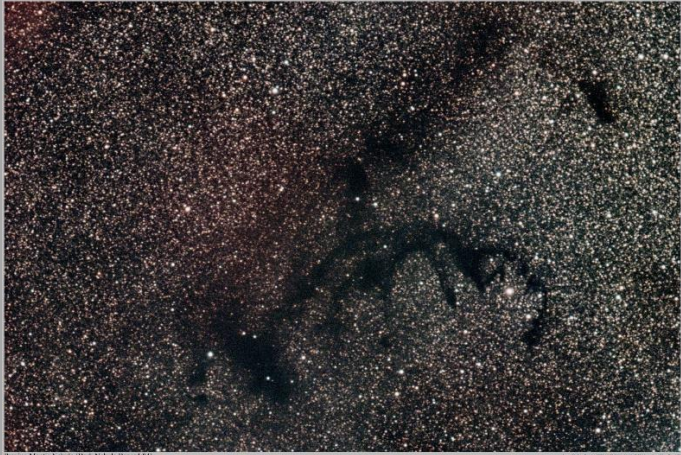

# Prospective Imaging Objects – April

<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: *<b>01:59 – 04:30</b>          Transit: <b>04:10   33°</b></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: *<b>01:59 – 04:30</b>          Transit: <b>04:10   33°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></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: *<b>02:40 – 04:30</b>          Transit: <b>04:11   35°</b></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

<p><b>Praying Matis Nebula (B-84)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula</b></p> <p>Constellation: <b>Sagittarius</b> Coordinates: <b>17h 46' 24"</b> <b>-20° 08' 31"</b></p> <p>Close Star: <b>SAO-210091</b> (Kaus Aus.) Catalog Objects: <a href="#">B-84</a>/LDN-235 Imaging Window: *<b>02:44 – 04:30</b> Transit: <b>04:33   36°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;"><small>Praying Matis Nebula (Dark Nebula B-84) C-11 HD: Primary Focus Imaging Window: *02:44 – 04:30 Transit: 04:33   36°</small></p>
<p><b>Box Nebula (NGC-6445)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Sagittarius</b> Coordinates: <b>17h 49' 15"</b> <b>-20° 00' 32"</b></p> <p>Close Star: <b>SAO-210091</b> (Kaus Aus.) Catalog Objects: <a href="#">NGC-6445</a> Imaging Window: <b>02:40 – 04:30</b> Transit: <b>04:35   37°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;"><small>Box Nebula Little Gem (NGC-6445) C-11 HD: Primary Focus Imaging Window: 02:40 – 04:30 Transit: 04:35   37°</small></p>

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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: <b>Rot90°</b> 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	<b>Comp2</b> 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