

# Prospective Imaging Objects – January

## Astronomical Data

Sunrise	Sunset	Astronomical Dusk	Astronomical Dawn	Imaging	Data Date
07:31am	05:43 pm	07:10 pm	06:04 am	10:54	January 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

02

03

04

01


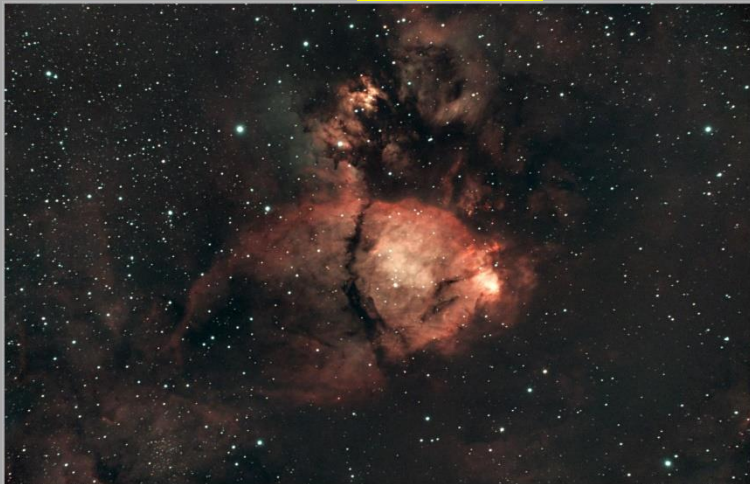
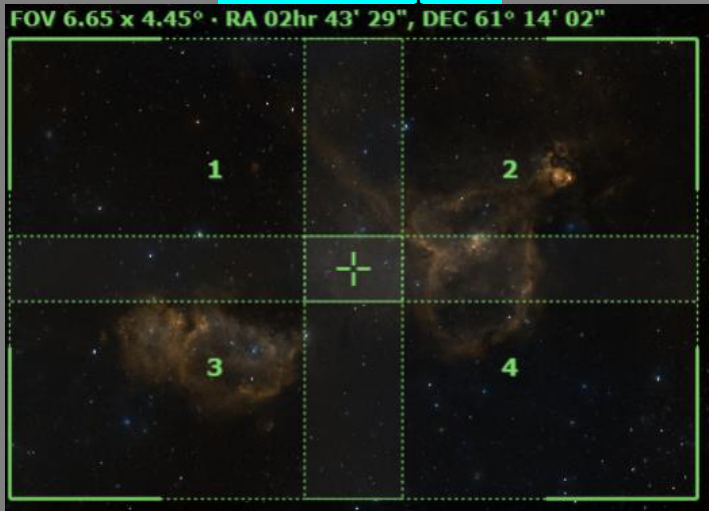
05

06




07

- 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 – January

<p><b>NGC-925 (PGC 9332)</b>            Config:  C11-HD ZWO6200MC </p> <p>Type: <b>Galaxy</b>            Constellation: <b>Triangulum</b>            Coordinates:  <b>02h 27' 17"</b>  <b>33° 34' 44"</b></p> <p>Close Star: <b>SAO-55306</b> (Beta Trianguli)            Catalog Objects: <a href="#">NGC925/PGC9332</a></p> <p>Imaging Window: <b>07:10 – 10:50</b>            Transit: <b>07:10   90°</b></p>	<p style="text-align: center;">Primary Focus</p>  <p style="text-align: center;"><small>NGC-925 The Spiral Galaxy in Triangulum © 2004 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 or retrieval system, without the prior written permission of the author.</small></p>
<p><b>Fish Head Nebula (IC-1795)</b>            Config:  C11-            HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Constellation: <b>Cassiopeia</b></p> <p>Coordinates:  <b>02h 27' 03"</b>  <b>62° 02' 31"</b></p> <p>Close Star: <b>SAO-38787</b> (Mirfak)            Catalog Objects: <a href="#">IC-1795</a></p> <p>Imaging Window: <b>07:10 – 10:52</b>            Transit: <b>07:08   87°</b></p>	<p style="text-align: center;">CH11-HD <b>Focal Reducer</b></p>  <p style="text-align: center;"><small>Fish Head Nebula (IC-1795) © 2004 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 or retrieval system, without the prior written permission of the author.</small></p>
<p><b>Heart and Soul Nebulas</b>            Config: C11   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b></p> <p>Constellation: <b>Cassiopeia</b>            Coordinates (RA, DEC):            Pane 1: <b>02hr 55' 41"</b>, <b>62° 09' 11"</b>            Pane 2, <b>02hr 31' 16"</b>, <b>62° 09' 11"</b>            Pane 3, <b>02hr 54' 58"</b>, <b>60° 15' 00"</b>            Pane 4, <b>02hr 31' 59"</b>, <b>60° 15' 00"</b></p> <p>Close Star: <b>SAO-38787</b> (Mirfak)            Catalog Objects: <a href="#">IC-1848</a></p> <p>Imaging Window: <b>07:10 – 11:20</b>            Transit: <b>07:34   62°</b></p>	<p style="text-align: center;">C-11 HD: HyperStar v4  <b>SUPER-4 Composite!</b></p>  <p style="text-align: center;"><small>FOV 6.65 x 4.45° · RA 02hr 43' 29", DEC 61° 14' 02"</small></p>

# Prospective Imaging Objects – January

<p><b>Heart Nebula (IC 1805)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b>            Peak: <b>October 31</b>            Constellation: <b>Cassiopeia</b>            Coordinates:  <b>02hr 31' 16"</b>  <b>61° 21' 36"</b></p> <p>Close Star: SAO-12031            Catalog Objects: <a href="#">IC 1805</a></p> <p>Imaging Window: <b>07:10 – 11:00</b>            Transit: <b>07:15   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Heart Nebula (IC 1805)            Constellation: Cassiopeia</p> <p style="font-size: x-small; text-align: right;">James Yoder - 2018.09.20            Location: Chandler, AZ            Config: C11   HyperStar   Astronomik CLS-CCD (OHV 128)            Exposure Info: 250sec/Star (Gain: 3200, Offset: 180)</p>
<p><b>Heart Nebula (IC 1805)</b>            Config:  C11-            HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Constellation: <b>Cassiopeia</b>            Coordinates:  <b>02hr 26' 36"</b>  <b>62° 06' 53"</b></p> <p>Close Star: SAO-12031            Catalog Objects: <a href="#">IC 1805</a></p> <p>Imaging Window: <b>07:10 – 11:00</b>            Transit: <b>07:15   62°</b></p>	<p style="text-align: center;"><b>CH11-HD Focal Reducer</b></p>  <p style="font-size: small;">Heart Nebula core (IC-1805)            Constellation: Cassiopeia</p> <p style="font-size: x-small; text-align: right;">James Yoder - 2019.11.01            Location: Chandler, AZ            Config: C11-HD   F7 Reducer   Astronomik CLS-CCD (OHV 128)            Exposure Info: 200sec/Star (Gain: 2000, Offset: 180)</p>
<p><b>Heart Nebula (IC-1805)</b>            Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak: <b>October 31</b>            Constellation: <b>Cassiopeia</b>            Coordinates:  <b>02hr 32' 42"</b>  <b>61° 27' 00"</b></p> <p>Close Star: SAO-12031            Catalog Objects: <a href="#">IC 1805</a></p> <p>Imaging Window: <b>07:10 – 11:00</b>            Transit: <b>07:15   62°</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p>  <p style="font-size: small;">Heart Nebula Core (IC-1805)            Constellation: Cassiopeia</p> <p style="font-size: x-small; text-align: right;">James Yoder - 2018.09.14            Location: Chandler, AZ            Config: C11   Starizona LF Reducer   SFP Triad Filter (OHV 128)            Exposure Info: 200sec/Star (Gain: 1100, Offset: 170)</p>

# Prospective Imaging Objects – January

## M-77, NGC 1055

Config: |C11-  
HD|FR|ZWO6200MC|

Type: **Galaxy**

Peak:

Constellation: **Cetus**

Coordinates:

**02hr 42' 14"**

**00° 14' 28"**

**Angle: 90°**

Close Star: **SAO-110665**

Catalog Objects: [M-77](#), NGC-1055,  
NGC-1068

Imaging Window: **07:10 – 09:36**

Transit: **07:25 | 57°**

### CH11-HD Focal Reducer



Galaxies NGC-1055, M-77, NGC-1072  
Constellation: Cetus  
RA=02h 42m 26.5s DEC=00deg 14' 13.5" Size=55.2 x 39.3 arcmin Orientation: 49.5deg E of N | Pixel scale = 0.579 arcsec/pixel | FL=1956mm  
James Yoder | Date(s) 2020-12-20, 21, 22 | Location: Chandler, AZ  
Config: C11-HD | 0.7 Reducer | Filter(s): Baader Skyglow, CLS-CCD (DAS-LP-02) Camera: SBV120C1  
Exposure Info: 414mm@5min | Gain: 3200 | Offset: 100

## NGC-1055

Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

Peak:

Constellation: **Cetus**

Coordinates:

**02hr 41' 50"**

**00° 29' 48"**

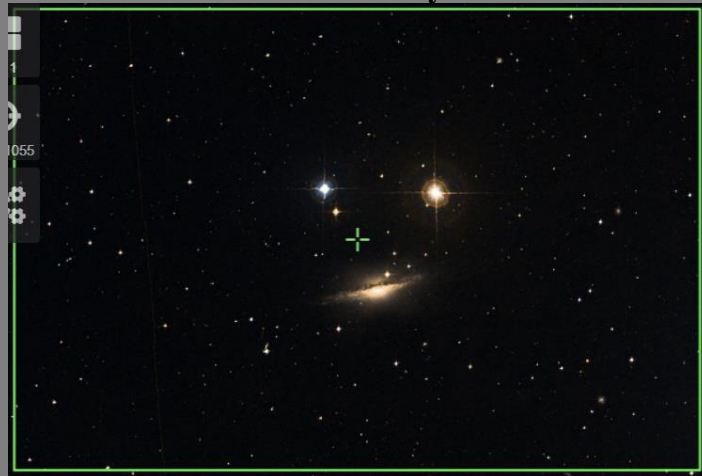
Close Star: **SAO-110665**

Catalog Objects: [NGC-1055](#)

Imaging Window: **07:10 – 09:37**

Transit: **07:24 | 57°**

### C-11 HD: Primary Focus



## M-34 (NGC-1039)

Config: |C11-HD|ZWO6200MC|

Type: **Open Cluster**

Constellation: **Perseus**

Coordinates:

**02h 42' 05"**

**42° 45' 42"**

Close Star: **SAO-38592** (Algol)

Catalog Objects: [M-34](#)/NGC-1039




Imaging Window: **07:10 – 11:14**

Transit: **07:24 | 81°**

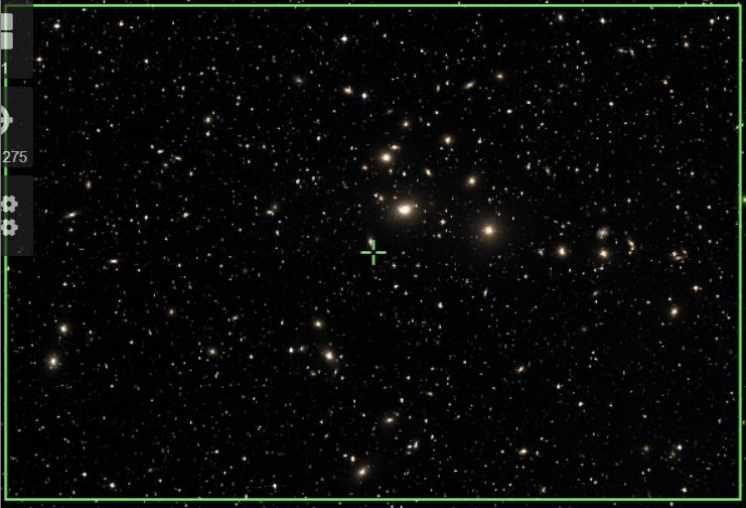


### Primary Focus




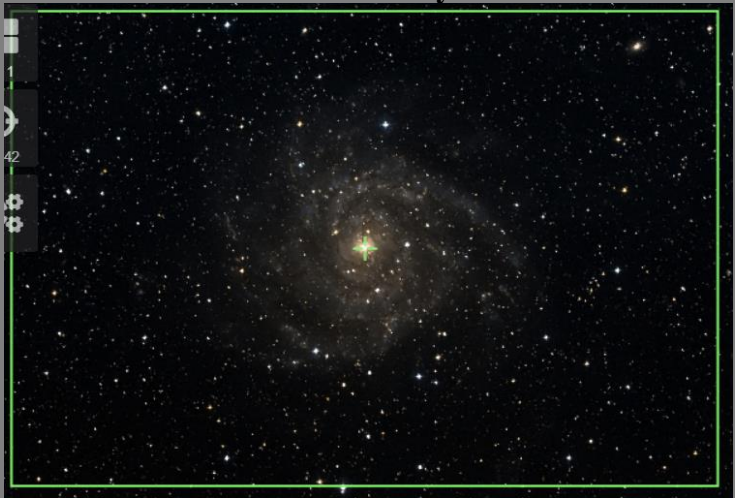

# Prospective Imaging Objects – January

<p><b>M 77 (NGC 1068)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b>            Peak:            Constellation: <b>Cetus</b>            Coordinates:  <b>02hr 42' 34"</b>  <b>00° 02' 07"</b></p> <p>Close Star: <b>SAO-110665</b>            Catalog Objects: M 77, <a href="#">NGC-1068</a></p> <p>Imaging Window: <b>07:10 – 09:36</b>            Transit: <b>07:25   57°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Soul Nebula (IC-1848)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Cassiopeia</b>            Coordinates:  <b>02hr 57' 16"</b>  <b>60° 37' 37"</b></p> <p>Close Star: <b>SAO-38787 (Mirfak)</b>            Catalog Objects: <a href="#">IC 1848</a></p> <p>Imaging Window: <b>07:10 – 11:20</b>            Transit: <b>07:34   63°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Soul Nebula (IC-1848)            Constellation: Cassiopeia</p> <p style="font-size: x-small; text-align: right;">             James Yoder - 2018.08.20              Location: Chandler, AZ              Config:  C11 HyperStar Astronomik 128C C11V128C               Exposure Info: 240min@5min   Gain: 3200   Offset: 180           </p>
<p><b>Soul Nebula (IC-1848)</b>            Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Cassiopeia</b>            Coordinates:  <b>02hr 57' 16"</b>  <b>60° 37' 37"</b></p> <p>Close Star: <b>SAO-38787 (Mirfak)</b>            Catalog Objects: <a href="#">IC 1848</a></p> <p>Imaging Window: <b>07:10 – 11:20</b>            Transit: <b>07:34   63°</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p>  <p style="font-size: small;">Soul Nebula (IC-1848)            Constellation: Cassiopeia</p> <p style="font-size: x-small; text-align: right;">             James Yoder - 2018.11.09              Location: Chandler, AZ              Config:  C11 Seymour's L3 Mirfak 1848C Star 01V128C               Exposure Info: 270min@5min   Gain: 3200   Offset: 180           </p>




# Prospective Imaging Objects – January

<p><b>Perseus Galaxy Cluster</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b>            Peak:            Constellation: <b>Perseus</b>            Coordinates:  <b>03hr 19' 58"</b>  <b>41° 29' 13"</b></p> <p>Close Star: <b>SAO-38592</b> (Algol)            Catalog Objects: <a href="#">Abell-426</a>, NGC1275,            1278, 1272, Et. Et.</p> <p>Imaging Window: <b>07:10 – 11:51</b>            Transit: <b>08:02   82°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-1333</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak: <b>November 13</b>            Constellation: <b>Perseus</b>            Coordinates:  <b>03hr 29' 15"</b>  <b>31° 20' 12"</b></p> <p>Close Star: <b>SAO-56799</b>            Catalog Objects: <a href="#">NGC 1333</a></p> <p>Imaging Window: <b>07:10 – 11:49</b>            Transit: <b>08:11   88°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-1360</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Peak:            Constellation: <b>Fornax</b>            Coordinates:  <b>03hr 33' 15"</b>  <b>-25° 52' 16"</b></p> <p>Close Star: <b>SAO-168460</b>            Catalog Objects: <a href="#">NGC-1360</a></p> <p>Imaging Window: <b>*07:10 – 10:12</b>            Transit: <b>08:15   31°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – January




<p><b>IC-348</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b> Peak: Constellation: <b>Perseus</b> Coordinates: <b>03hr 44' 26"</b> <b>32° 10' 54"</b></p> <p>Close Star: <b>SAO-147420</b> Catalog Objects: <a href="#">IC-348</a></p> <p>Imaging Window: <b>07:10 – 12:05</b> Transit: <b>08:27   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>IC-342</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b> Peak: Constellation: <b>Camelopardalis</b> Coordinates: <b>03hr 46' 48"</b> <b>68° 05' 44"</b></p> <p>Close Star: <b>SAO-12031 (Segin)</b> Catalog Objects: <a href="#">IC-342</a></p> <p>Imaging Window: <b>07:10 – 11:54</b> Transit: <b>08:29   55°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Pleiades (M 45)</b> Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Bright Nebula</b> Peak: <b>November 16</b> Constellation: <b>Taurus</b> Coordinates: <b>03hr 46' 07"</b> <b>24° 11' 18"</b></p> <p>Close Star: <b>SAO-56799</b> Catalog Objects: <a href="#">M45</a></p> <p>Imaging Window: <b>07:10 – 11:54</b> Transit: <b>08:29   81°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p><small>The Pleiades (M-45) Constellation: Taurus</small></p> <p><small>Image: Apollo, 2018-10-08 Location: Mountain View, California, CA Config: C11 HyperStar (HS) v4 Exposure: 16s, 200000000, Gain: 1181, 100000, 1.7x</small></p>

# Prospective Imaging Objects – January

<p><b>Pleiades (M-45)</b>            Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak: <b>November 16</b>            Constellation: <b>Taurus</b>            Coordinates:  <b>03hr 46' 15.932"</b>  <b>24° 12' 07.154"</b></p> <p>Close Star: <b>SAO-56799</b>            Catalog Objects: <a href="#">M45</a></p> <p>Imaging Window: <b>07:10 – 11:54</b>            Transit: <b>08:29   81°</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p>  <p><small>The Pleiades (M-45)            Constellation: Taurus            RA = 03h 46m 15.932s DEC = +24deg 12' 07.154" Size = 49.9 x 33.6 arcmin   Pixel scale = 0.582 arcsec/pixel</small></p> <p><small>James Yoder 2019 09 27            Location: Phoenix Greenh. Trailhead, AZ            Config:  C11 LF ZWO6200MC             Exposure Info: 200img/5min Gain: 2500   Offset: 100</small></p>
<p><b>California Nebula (NGC 1499)</b>            Config: C11-HD   HS              ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b>            Peak: <b>November 22</b>            Constellation: <b>Perseus</b>            Coordinates:  <b>04hr 01' 22"</b>  <b>36° 21' 19"</b></p> <p>Close Star: SAO-56840            Catalog Objects: <a href="#">NGC 1499</a></p> <p>Imaging Window: <b>07:10 – 12:29</b>            Transit: <b>08:45   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p><small>California Nebula (NGC-1499)            Constellation: Perseus</small></p> <p><small>James Yoder 2019 08 31            Location: Chandler, AZ            Config:  C11 HyperStar Astronomik.C11-C11 GOTO12K             Exposure Info: 220img/5min Gain: 3200   Offset: 100</small></p>
<p><b>Oyster Nebula (NGC 1501)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Constellation: <b>Camelopardalis</b>            Coordinates:  <b>04hr 06' 58"</b>  <b>60° 55' 3.5"</b></p> <p>Close Star: <b>SAO-038787 (Mirfak)</b>            Catalog Objects: <a href="#">NGC-1501</a></p> <p>Imaging Window: <b>07:10 – 12:35</b>            Transit: <b>08:49   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p><small>NGC-1501 (Oyster Nebula)            Constellation: Camelopardalis</small></p> <p><small>James Yoder   Data: 2021-12-10   Location: Chandler, AZ            Config:  C-11 HD EPT Third Rotor Ultra  ZWO 6200MC             Exposure Info: 162 img/20min Gain: 100   Offset: 50            RA = 04h 06m 07.2s DEC = +60deg 55' 03.3" Size = 18.5 x 13.9 arcmin   Orientation: -0.5deg E of N   Pixel scale = 0.277 arcsec/pixel   FL=300mm</small></p>



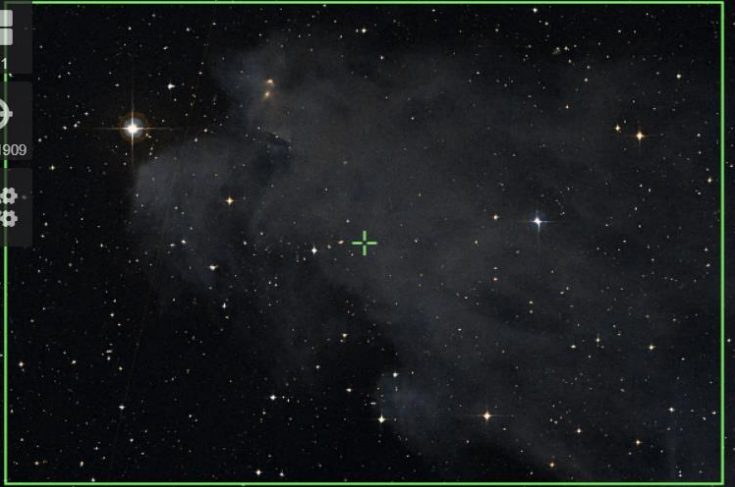


# Prospective Imaging Objects – January

<p><b>Crystal Ball Nebula (NGC 1514)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Constellation: <b>Taurus</b>            Coordinates:  <b>04hr 09' 17"</b>  <b>30° 46' 35"</b></p> <p>Close Star: <b>SAO-56799</b>            Catalog Objects: <a href="#">NGC-1514</a></p> <p>Imaging Window: <b>07:10 – 12:28</b>            Transit: <b>08:51   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC-1514 (Crystal Ball Nebula)            Constellation: Taurus            RA = 04h 09m 17.0s, DEC = +30deg 46' 35.0", Size = 18.5 x 11.9 arcmin, Orientation: 0.4deg E of N, Pixel scale = 0.278 arcseconds (FL = 2000mm)</p> <p style="font-size: x-small; text-align: right;">James Yoder   Date: 2020-12-09   Location: Chandler, AZ            Config: C-11 HD (SFP) Triad Unit (ZWO6200MC)            Exposure Info: 44 6000/2min   Gain: 100   Offset: 50</p>
<p><b>Cleopatra's Eye (NGC 1535)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Constellation: <b>Eridanus</b>            Coordinates:  <b>04hr 14' 16"</b>  <b>-12° 44' 20"</b></p> <p>Close Star: <b>SAO-131907</b> (Rigel)            Catalog Objects: <a href="#">NGC-1535</a></p> <p>Imaging Window: <b>*07:10 – 11:06</b>            Transit: <b>08:56   44°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Planetary Nebula NGC-1535 (Cleopatra's Eye)            Constellation: Eridanus            RA = 04h 14m 16.0s, DEC = -12deg 44' 20.0", Distance to Ring E of N, Pixel Scale = 0.278 arcseconds (FL = 2000mm)</p> <p style="font-size: x-small; text-align: right;">James Yoder   Date: 2020-12-09   Location: Chandler, AZ            Config: C-11 HD (SFP) Triad Unit (ZWO6200MC)            Exposure Information: 30min @ Gain 100   Offset: 50</p>
<p><b>Hind's Variable Nebula (NGC 1555)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Constellation: <b>Taurus</b>            Coordinates:  <b>04hr 21' 54"</b>  <b>19° 32' 00"</b></p> <p>Close Star: <b>SAO-94027</b> (Aldebaran)            Catalog Objects: <a href="#">NGC-1555</a></p> <p>Imaging Window: <b>07:10 – 12:20</b>            Transit: <b>09:04   76°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> <p style="text-align: center; color: green; font-weight: bold;">FOV 0.73 x 0.48° · RA 04hr 21' 54", DEC 19° 32' 00"</p> 




# Prospective Imaging Objects – January

<p><b>Hyades</b> (Mel 25)            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Open Cluster</b>            Constellation: <b>Taurus</b>            Coordinates:  <b>04hr 26' 34"</b>  <b>15° 31' 39"</b></p> <p>Close Star: SAO-56840            Catalog Objects: <a href="#">Mel 25</a></p> <p>Imaging Window: <b>07:10 – 12:21</b>            Transit: <b>09:12   73°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>Trifid of the North</b> (NGC 1579)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Perseus</b>            Coordinates:  <b>04hr 30' 12"</b>  <b>35° 16' 60"</b></p> <p>Close Star: SAO-56799            Catalog Objects: <a href="#">NGC-1579</a></p> <p>Imaging Window: <b>07:10 – 12:55</b>            Transit: <b>09:12   88°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Witch Head Nebula</b> (IC 2118)            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Eridanus</b>            Coordinates:  <b>05hr 05' 19.872"</b>  <b>-06° 56' 00.365"</b></p> <p>Close Star: SAO-131794            Catalog Objects: <a href="#">IC 2118</a></p> <p>Imaging Window: <b>*07:12 – 12:19</b>            Transit: <b>09:44   49°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;"> <span style="float: left;">Witch Head Nebula (IC-2118)            Constellation: Eridanus              RA = 05h 05m 19.872s DEC = -06deg 56' 00.365"   Size = 2.66 x 1.78 deg   Pixel scale = 2.27 arcsec/pixel  </span> <span style="float: right; text-align: right;">             James Yoder 2019.09.28              Location: Chandler, AZ              Config:   C11   HyperStar   Baader Skyliner   QHY 236                Exposure Info:   54fms @ 90s   Gain: 3200   Offset: 180             </span> </p>


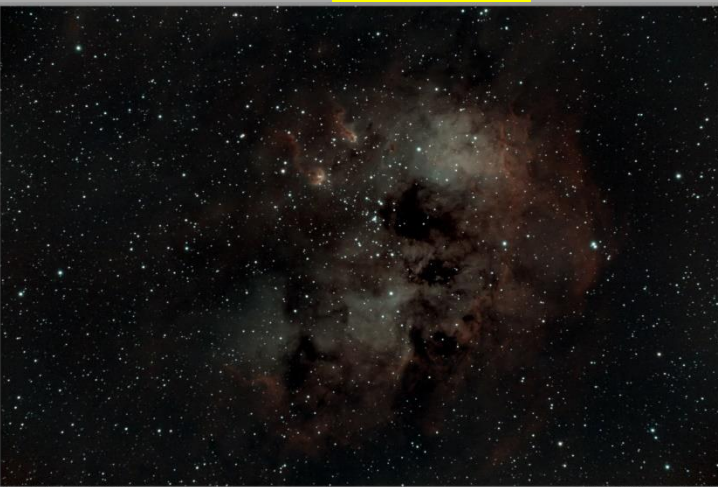

# Prospective Imaging Objects – January

<p><b>Witch Head Nebula</b> (IC 2118)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Eridanus</b>            Coordinates:  <b>05hr 07' 07"</b>  <b>-06° 20' 07"</b></p> <p>Close Star: SAO-131794            Catalog Objects: <a href="#">IC 2118</a></p> <p>Imaging Window: *07:12 – 12:19            Transit: 09:44   49°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Foxface Nebula</b> (NGC 1788)            Config:  C11 HS ZWO6200MCc </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 06' 10"</b>  <b>-04° 04' 26"</b></p> <p>Close Star: SAO-131794            Catalog Objects: <a href="#">NGC 1788</a></p> <p>Imaging Window: 08:01 – 11:42            Transit: 09:49</p>	<p style="text-align: center;"><b>Hyperstar</b></p> <p style="text-align: center;">FOV 3.80 x 2.54° · RA 05hr 06' 10", DEC -04° 04' 26"</p> 
<p><b>Foxface Nebula</b> (NGC 1788)            Config:  C11-            HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 05' 52"</b>  <b>-03° 22' 22"</b></p> <p>Close Star: SAO-131794            Catalog Objects: <a href="#">NGC 1788</a></p> <p>Imaging Window: 08:01 – 11:42            Transit: 09:49</p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 



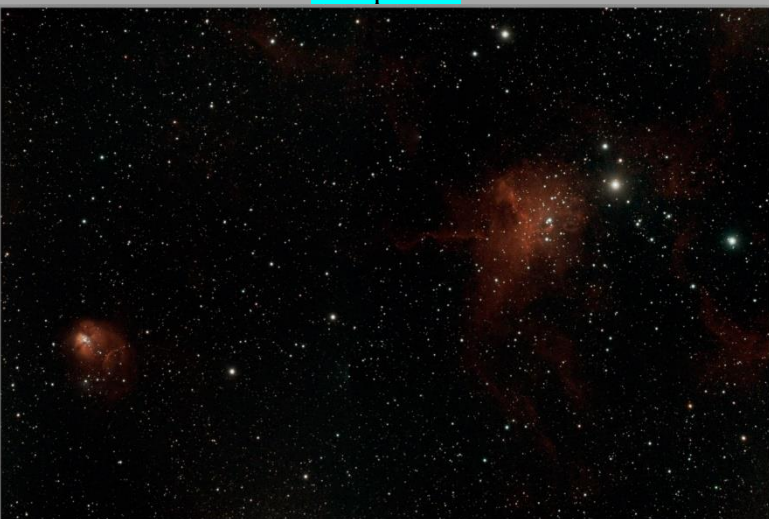
# Prospective Imaging Objects – January

<p><b>Foxface Nebula (NGC 1788)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 06' 26"</b>  <b>-03° 20' 13"</b></p> <p>Close Star: SAO-131794            Catalog Objects: <a href="#">NGC 1788</a></p> <p>Imaging Window: <b>08:01 – 11:42</b>            Transit: <b>09:49</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Flaming Star Nebula (IC-405)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 19' 38"</b>  <b>33° 49' 10"</b></p> <p>Close Star: SAO-77168 (Elnath)            Catalog Objects: <a href="#">IC 405</a>, <a href="#">IC 410</a></p> <p>Imaging Window: <b>07:10 – 01:41</b>            Transit: <b>09:59   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Flaming Star Nebula (IC-405, IC-410, IC-417)            Constellation: Auriga            Config: C-11HD HyperStar v4 Ammoniac C154 CCD QHY172C            RA=05h19m35.62s DEC=+33deg49'10.12" Size=58.8x41.7 arcmin Pixel scale=0.629 arcseconds FL=1997mm            Exposure Info: 47Images/Frame Gain: 2000 Offset: 100</p>
<p><b>Flaming Star Nebula (IC 405)</b>            Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 15' 55"</b>  <b>34° 29' 08"</b></p> <p>Close Star: SAO-77168 (Elnath)            Catalog Objects: <a href="#">IC 405</a></p> <p>Imaging Window: <b>07:10 – 01:41</b>            Transit: <b>09:59   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b></b></p>  <p style="font-size: small;">Flaming Star Nebula (IC-405)            Constellation: Auriga            RA=05h15m55.10s DEC=+34deg29'08.12" Size=58.8x41.7 arcmin Orientation: Mag E of N Pixel scale=0.629 arcseconds FL=1997mm            Config: C11-HD 0.7 Focal Reducer Filter: Optolong L-Enhance Camera: QHY172C            Exposure Info: 47Images/Frame Gain: 2000 Offset: 100</p>




# Prospective Imaging Objects – January

<p><b>Flaming Star Nebula (IC 405)</b>            Config:  C11-HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 16' 37"</b>  <b>34° 23' 47"</b></p> <p>Close Star: SAO-77168 (Elnath)            Catalog Objects: <a href="#">IC 405</a></p> <p>Imaging Window: <b>07:10 – 01:41</b>            Transit: <b>09:59   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Tadpoles (IC 410)</b>            Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 22' 54"</b>  <b>33° 23' 31"</b></p> <p>Close Star: SAO-77168 (Elnath)            Catalog Objects: <a href="#">IC 410</a></p> <p>Imaging Window: <b>07:10 – 01:44</b>            Transit: <b>10:04   90°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small;">Tadpole Nebula (IC-410)            Constellation: Auriga            RA=05h 22m 55.355s DEC=+33deg 23' 32.48" Size=78.3 x 58.8 arcsec Orientation: 84.6 of N   Pixel scale = 0.61 arcsec/pixel   FL=1075mm            James Webb - Dec/20 2023 04:01 Location: Chandler AZ            Config: C-11-HD / 0.7 Reducer / Filter: Optolong L-Extreme / Camera: ORV128C            Exposure Info: 81frames/sum (Gain: 3200) Offset: 100</p>
<p><b>Tadpoles (IC 410)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 22' 37"</b>  <b>33° 23' 03"</b></p> <p>Close Star: SAO-77168 (Elnath)            Catalog Objects: <a href="#">IC 410</a></p> <p>Imaging Window: <b>07:10 – 01:44</b>            Transit: <b>10:04   90°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Tadpole Nebula (IC-410)            Constellation: Auriga            RA=05h 22m 35.015s DEC=+33deg 23' 03.197" Size=62.4 x 28.8 arcsec   Pixel scale = 0.802 arcsec/pixel            James Webb - Dec/20 2023 04:02            Location: Chandler, AZ            Config: C-11 HD / Antaresmk C3-ACCU / ORV128C            Exposure Info: 210frames/sum (Gain: 3200) Offset: 100</p>

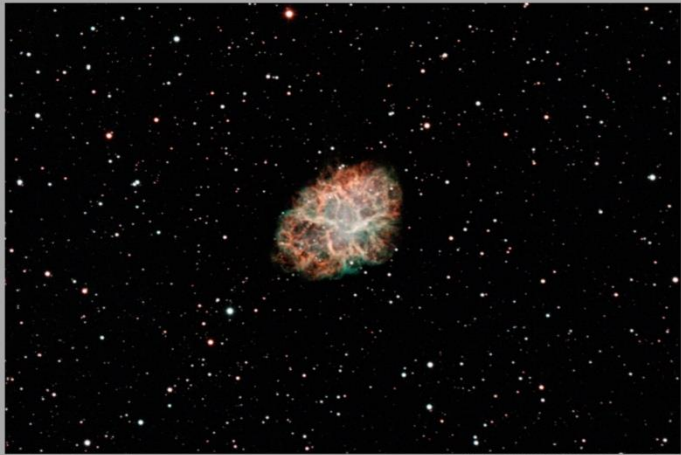

# Prospective Imaging Objects – January

<p><b>M-79 (NGC-1904)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b>            Peak:            Constellation: <b>Lepus</b>            Coordinates:  <b>05hr 24' 11"</b>  <b>-24° 31' 25"</b></p> <p>Close Star: SAO-170457            Catalog Objects: <a href="#">M 79</a></p> <p>Imaging Window: *09:03 – 11:17            Transit: 10:06   32°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Spirograph Nebula (IC 418)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Constellation: <b>Lepus</b>            Coordinates:  <b>05hr 27' 28"</b>  <b>-12° 41' 48"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">IC-418</a></p> <p>Imaging Window: *08:05 – 12:19            Transit: 10:09   44°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>The Spider and the Fly</b>            (M-77, NGC-1055, NGC-1931)            Config:  C11-            HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Auriga</b></p> <p><b>Camera Rotation - 90°</b></p> <p>Frame 01            RA: 05hr 30' 44"DEC: 34° 20' 41"            Frame 02            RA: 05hr 27' 55"DEC: 34° 20' 41"</p> <p>Close Star: SAO-77168 (Elnath)            Catalog Objects: <a href="#">IC-417</a>, <a href="#">NGC-1931</a></p> <p>Imaging Window: 07:10 – 01:52            Transit: 10:10   89°</p>	<p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b>  <b>Composite!</b></b></p>  <p><small>The Spider and the Fly (IC-417 &amp; NGC-1931)            Constellation: Auriga            RA: 05h 29m 17.51s DEC: -15deg 27' 34.90" Star: 68.0 x 45.3 pixels Observation: 6.5Mag E-oFV, Pixel scale: 6.628 arcsec/pixel FL: 1978mm            Image Scale: (Units: 1000, 11.26, 21, 32) [Location: Cheshire, AZ]            Config: C11HD141Fokusa1ThinOptim44Xtraux1CanonCR1200            Exposure: 30s, Filter: 20nm/30nm, Filter2: 20nm/30nm, Gain: 2000, Offset: 100</small></p>

# Prospective Imaging Objects – January

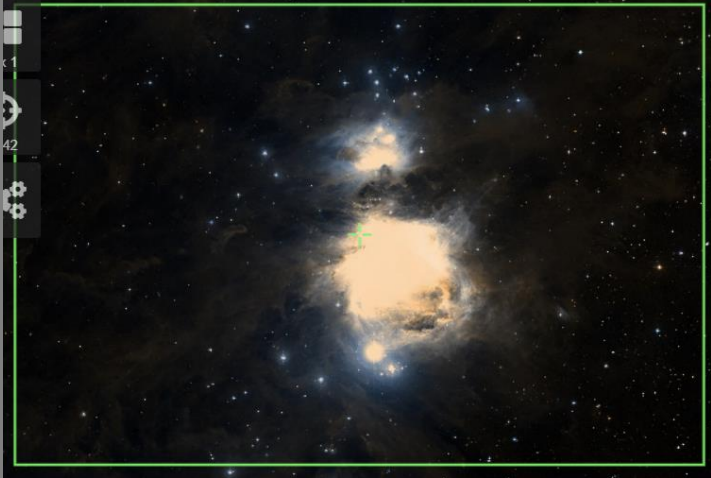


<p><b>The Spider (IC 417)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b> Peak: Constellation: <b>Auriga</b> Coordinates: <b>05hr 28' 03"</b> <b>34° 22' 58"</b></p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: <a href="#">IC 417</a></p> <p>Imaging Window: <b>07:10 – 01:52</b> Transit: <b>10:10   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Starfish Cluster (M-38)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b> Constellation: <b>Auriga</b> Coordinates: <b>05hr 28' 43"</b> <b>35° 51' 18"</b></p> <p>Close Star: <b>SAO-77168</b> (Elnath) Catalog Objects: <a href="#">M-38</a></p> <p>Imaging Window: <b>07:10 – 01:54</b> Transit: <b>10:11   88°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p><small>M-38 Starfish Cluster</small></p> <p><small>James Yoder 2019.09.30</small></p>
<p><b>The Fly (NGC 1931)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b> Peak: Constellation: <b>Auriga</b> Coordinates: <b>05hr 31' 24"</b> <b>34° 15' 00"</b></p> <p>Close Star: SAO-77168 (Elnath) Catalog Objects: <a href="#">NGC 1931</a></p> <p>Imaging Window: <b>07:10 – 01:55</b> Transit: <b>10:13   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – January




<p><b>Crab Nebula (M 1)</b>            Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Peak:            Constellation: <b>Taurus</b>            Coordinates:  <b>05hr 34' 30"</b>  <b>22° 00' 59.9"</b></p> <p>Close Star: SAO-77336            Catalog Objects: <a href="#">M 1</a></p> <p>Imaging Window: <b>07:10 – 01:37</b>            Transit: <b>10:16   79°</b></p>	<p style="text-align: center;">Primary Focus</p>  <p style="font-size: small;">Crab Nebula (Messier-1)            James Yoder   Date(s) 2022-02-05, 07, 08, 09, 10   Location: Chandler, AZ              Constellation: Taurus   Config: C-11 HD 7 Blue OPT Kamin Ultra (OHT1256)              RA = 05h 34m 31.5s   DEC = +22deg 00' 34.4"   Size = 31.5 x 21.0 arcmin   Orientation: -0.34deg   Pixel scale = 0.447 arcsec/pixel   FL=2756mm   Exposure Info: (756ms@4min)   Gain: 3200   OBSId: 180</p>
<p><b>The Orion Complex</b>            Config: C11   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:            Frame 01            RA: <b>05hr 43' 42"</b> DEC: <b>-01° 01' 06"</b>            Frame 02            RA: <b>05hr 31' 05"</b> DEC: <b>-01° 01' 06"</b>            Frame 03            RA: <b>05hr 43' 42"</b> DEC: <b>-03° 07' 35"</b>            Frame 04            RA: <b>05hr 31' 04"</b> DEC: <b>-03° 07' 35"</b>            Frame 05            RA: <b>05hr 43' 43"</b> DEC: <b>-05° 14' 05"</b>            Frame 06            RA: <b>05hr 31' 04"</b> DEC: <b>-05° 14' 05"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">M-42</a></p> <p>Imaging Window: <b>08:43 – 11:57</b>            Transit: <b>10:17</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b>  <b>SUPER-6 Composite!</b></p>  <p style="font-size: small;">FOV 6.95 x 6.76° - RA 05hr 37' 23", DEC -03° 07' 40"</p>



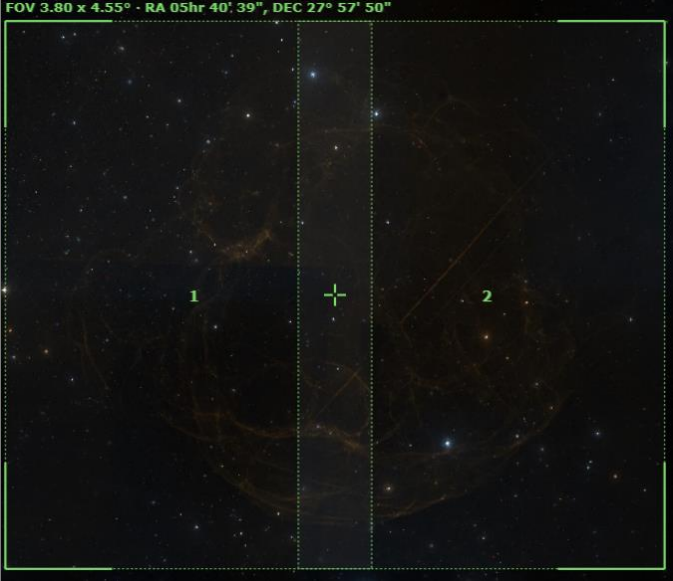
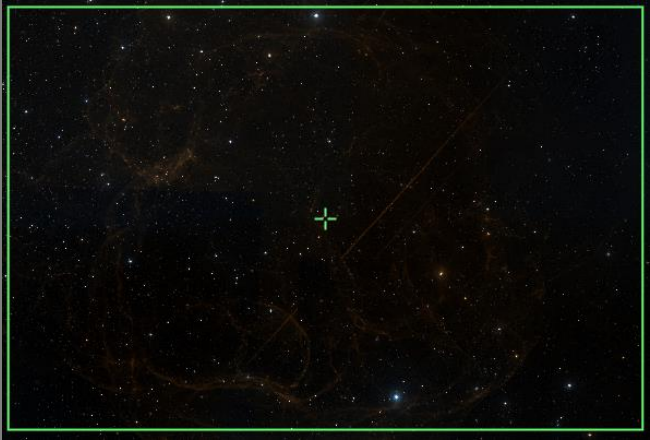
# Prospective Imaging Objects – January

<p><b>The Orion Nebula (M 42)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 35' 46"</b>  <b>-05° 15' 34"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">M-42</a></p> <p>Imaging Window: <b>08:43 – 11:57</b>            Transit: <b>10:17</b></p>	<p><b>C-11 HD: HyperStar v4</b></p> 
<p><b>The Orion Nebula (M 42)</b>            Config: C6-SE   HS   ZWO6200MC (Cropped)</p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 35' 18.4"</b>  <b>-05° 23' 51.0"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">M-42</a></p> <p>Imaging Window: <b>08:43 – 11:57</b>            Transit: <b>10:17</b></p>	<p><b>C6-SE: HyperStar v4</b></p>  <p><small>Orion Nebula (M-42)            Constellation: Orion the Hunter            RA: 05h 35m 18.40s / 83.45° / Star: 4.41 x 3.97 deg / Distance: 1500y R.A.N. Peak: 1.3 / unspread / 11 - 10mm /            James Webb   Orion Nebula (M42)   Location: Chandler AZ              Config: C6-SE   HyperStar V4   OPT Filter: H&amp;A (M)   FWC (02/06/24)              Exposure: 162 / Stars: 112 / Stars/Frame: 0.69</small></p>
<p><b>The Orion Nebula (M 42)</b>            Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 35' 09"</b>  <b>-05° 24' 32"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">M-42</a></p> <p>Imaging Window: <b>08:43 – 11:57</b>            Transit: <b>10:17</b></p>	<p><b>Primary Focus</b></p>  <p><small>Orion Nebula (M-42)            Constellation: Orion            James Webb   Orion Nebula (M42)   Location: Chandler AZ              Config:  C1  Sierra LF (8mm)   170AD Filter (5071224)              Exposure: 510mm/5min / Gain: 5200 / Offset: 180</small></p>

# Prospective Imaging Objects – January

<p><b>Running Man Nebula (NGC 1977)</b>            Config:  C6-HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 35' 18.1"</b>  <b>-04° 41' 25.9"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">NGC-1977</a></p> <p>Imaging Window: <b>08:39 – 12:01</b>            Transit: <b>10:17   52°</b></p>	<p style="text-align: center;"><b>C-6SE: Primary Focus</b></p>  <p style="font-size: small;">Running Man Nebula (NGC-1977)            © Constellation's Orion the Hunter            RA = 05h 35m 18.1s Dec = -04deg 41' 25.9" Orientation: 0 deg E of N. Pixel scale = 0.51 arcsecond (L=1935nm)            James Webb   Date: 2024-11-01   Location: Chandler, AZ            Config: C-6SE EP7 Radau Triad 11ba ZWO6200MC            Exposure: 10 (29 9990/300) Gain: 100</p>
<p><b>Running Man Nebula (NGC 1977)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 35' 27"</b>  <b>-04° 53' 09"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">NGC-1977</a></p> <p>Imaging Window: <b>08:39 – 12:01</b>            Transit: <b>10:17   52°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-36 (NGC-1960)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b>            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 36' 18"</b>  <b>34° 08' 27"</b></p> <p>Close Star: <b>SAO-77168</b> (Elnath)            Catalog Objects: <a href="#">M-36</a>/NGC-1960</p> <p>Imaging Window: <b>07:10 – 02:00</b>            Transit: <b>10:18   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Pleiades Cluster (M-36, NGC-1960)            Constellation: Auriga            RA = 05h 36m 18.1s Dec = 34deg 08' 27.0" Orientation: 0 deg E of N. Pixel scale = 0.51 arcsecond (L=1935nm)            James Webb   Date: 2024-11-01   Location: Chandler, AZ            Config: C-11 HD EP7 Radau Triad 11ba ZWO6200MC            Exposure: 10 (29 9990/300) Gain: 100</p>

# Prospective Imaging Objects – January

<p><b>Simeis 147</b> (SH2-240) Config: <b>C11-HD</b>   <b>HS</b>   <b>ZWO6200MC</b></p> <p>Type: <b>Diffuse Nebula</b> Constellation: <b>Taurus</b></p> <p><b>Camera Rotation - 90°</b> Coordinates: Frame 01 RA: <b>05hr 45' 38"</b> DEC: <b>27° 56' 31"</b> Frame 02 RA: <b>05hr 36' 28"</b> DEC: <b>27° 56' 31"</b></p> <p>Close Star: <b>SAO-77168</b> (Elnath) Catalog Objects: <a href="#">SH2-240</a></p> <p>Imaging Window: <b>07:10 – 01:55</b> Transit: <b>10:23</b>   <b>85°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b> <b>Composite-2</b></p> 
<p><b>Simeis 147</b> (SH2-240) Config: <b>C11-HD</b>   <b>HS</b>   <b>ZWO6200MC</b></p> <p>Type: <b>Diffuse Nebula</b> Constellation: <b>Taurus</b> Coordinates: <b>05hr 39' 04"</b> <b>28° 00' 00"</b></p> <p>Close Star: <b>SAO-77168</b> (Elnath) Catalog Objects: <a href="#">SH2-240</a></p> <p>Imaging Window: <b>07:10 – 01:55</b> Transit: <b>10:23</b>   <b>85°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 

# Prospective Imaging Objects – January

## Flame and Horsehead Nebula (NGC 2024, B 33)

Config: C11-HD | HS |  
ZWO6200MC

Type: **Diffuse/Dark Nebula**

Peak:

Constellation: **Orion**

Coordinates:

**05hr 40' 04"**

**-02° 28' 13"**

Close Star: SAO-132542 (Saiph)

Catalog Objects: [NGC-2024](#), [B-33](#)

Imaging Window: **08:28 – 12:25**

Transit: **10:24 | 55°**

### C-11 HD: HyperStar v4



## Flame Nebula (NGC 2024)

Config: |C11-HD|FR|ZWO6200MC|  
|

Type: **Diffuse Nebula**

Peak:

Constellation: **Orion**

Coordinates:

**05hr 41' 30"**

**-01° 45' 21"**

Close Star: SAO-132542 (Saiph)

Catalog Objects: [NGC-2024](#)

Imaging Window: **08:28 – 12:25**

Transit: **10:24 | 55°**

### C-11 HD: Focal Reducer



## Flame Nebula (NGC 2024)

Config: |C11HD|ZWO6200MC|

Type: **Diffuse Nebula**

Peak:

Constellation: **Orion**

Coordinates:

**05hr 41' 45.843"**

**-01° 49' 31.401"**

Close Star: SAO-132542 (Saiph)

Catalog Objects: [NGC-2024](#)




Imaging Window: **08:28 – 12:25**

Transit: **10:24 | 55°**


### C-11 HD: Primary Focus



# Prospective Imaging Objects – January

<p><b>Horsehead Nebula (B 33)</b>            Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Dark Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 40' 59"</b>  <b>-02° 31' 47"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">B 33</a></p> <p>Imaging Window: <b>08:30 – 12:21</b>            Transit: <b>10:23   54°</b></p>	<p style="text-align: center;">Primary Focus</p>  <p style="font-size: small;">Horsehead Nebula (IC-434)            Constellation: Orion</p> <p style="font-size: x-small; text-align: right;">James Yoder - 2018-12-06            Location: Mountain View, AZ            Config:  C11 Starizona L.F.Reducer Final Filter 00Y126             Exposure Info: 200x30sec/Frame Gain: 2300 (Offset: 100)</p>
<p><b>NGC 2022</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 42' 07"</b>  <b>09° 04' 55"</b></p> <p>Close Star: SAO-112740 (Bellatrix)            Catalog Objects: <a href="#">NGC-2022</a></p> <p>Imaging Window: <b>07:42 – 01:11</b>            Transit: <b>10:24   66°</b></p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">NGC-2022            Constellation: Orion</p> <p style="font-size: x-small; text-align: right;">James Yoder   Direct   2020-12-09, 10   Location: Chandler, AZ            Config:  C-11 HD EXP1 Third Ultra ZWO6200MC             Exposure Info: 5x30sec/20min Gain: 100 (Offset: 50)</p>
<p><b>NGC 1961</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Spiral Galaxy</b>            Peak:            Constellation: <b>Camelopardalis</b>            Coordinates:  <b>05hr 43' 27"</b>  <b>69° 20' 48"</b></p> <p>Close Star: SAO-40750 (Menkalinan)            Catalog Objects: <a href="#">NGC-1961</a></p> <p>Imaging Window: <b>07:11 – 01:42</b>            Transit: <b>10:24   54°</b></p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Galaxy Cluster (NGC-1961 et al.)            Constellation: Camelopardalis</p> <p style="font-size: x-small; text-align: right;">James Yoder - 2019-10-25            Location: Mountain View, Arizona, AZ            Config:  C-11 HD 00Y126             Exposure Info: 10x30sec/30min Gain: 2300 (Offset: 100)</p>

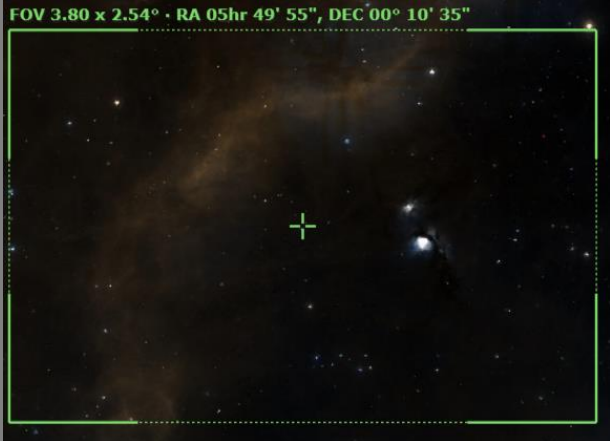
# Prospective Imaging Objects – January

<p><b>M-78</b>          Config:  C11-          HD FR ZWO6200MC </p> <p>Type: <b>Dark Nebula</b>          Peak:          Constellation: <b>Orion</b></p> <p>Frame 01          RA: <b>05hr 47' 05"</b>DEC: <b>00° 20' 09"</b></p> <p>Frame 02          RA: <b>05hr 47' 05"</b>DEC: <b>-00° 14' 43"</b></p> <p>Close Star: SAO-132346 (Annilam)          Catalog Objects: <a href="#">M-78</a></p> <p>Imaging Window: <b>08:23 – 12:40</b>          Transit: <b>10:29</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b>  <b>Composite!</b></p> 
<p><b>M-78</b>          Config:  C11-          HD FR ZWO6200MC </p> <p>Type: <b>Bright and Dark Nebula</b>          Peak:          Constellation: <b>Orion</b>          Coordinates:  <b>05hr 46' 59"</b>  <b>00° 08' 59"</b></p> <p>Close Star: SAO-132346 (Annilam)          Catalog Objects: <a href="#">M-78</a></p> <p>Imaging Window: <b>08:23 – 12:40</b>          Transit: <b>10:29</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 

# Prospective Imaging Objects – January


<p><b>M-78</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright and Dark Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>05hr 47' 03"</b>  <b>00° 09' 46"</b></p> <p>Close Star: SAO-132346 (Alnilam)            Catalog Objects: <a href="#">M-78</a></p> <p>Imaging Window: <b>08:23 – 12:40</b>            Transit: <b>10:29</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Salt and Pepper Cluster (M-37)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b>            Constellation: <b>Auriga</b>            Coordinates:  <b>05hr 52' 18"</b>  <b>32° 33' 11"</b></p> <p>Close Star: <b>SAO-77168</b> (Elnath)            Catalog Objects: <a href="#">M-37</a>/NGC-2099</p> <p>Imaging Window: <b>07:10 – 02:13</b>            Transit: <b>10:34   89°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>LDN-1622 (Region 01)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula &amp; Nebula</b>            Peak:            Constellation: <b>Orion</b></p> <p>Coordinates:            Pane 1: <b>05hr 50' 40", 01° 46' 30"</b>            Pane 2, <b>05hr 50' 40", 00° 14' 57"</b></p> <p>Close Star: SAO-132346 (Alnilam)            Catalog Objects: <a href="#">LDN-1622</a>            Imaging Window: <b>08:22 – 12:56</b>            Transit: <b>10:36   59°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b>  <b>Composite!</b></p> 

# Prospective Imaging Objects – January

<p><b>LDN-1622 (Region 01)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula &amp; Nebula</b>            Peak:            Constellation: <b>Orion</b></p> <p>Coordinates:  <b>05hr 51' 00"</b>  <b>00° 59' 47"</b></p> <p>Close Star: SAO-132346 (Annilam)            Catalog Objects: <a href="#">LDN-1622</a>            Imaging Window: <b>08:22 – 12:56</b>            Transit: <b>10:36   59°</b></p>	<p style="text-align: center;">HyperStar</p> 
<p><b>LDN-1622 (Region 02)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula &amp; Nebula</b>            Peak:            Constellation: <b>Orion</b></p> <p>Coordinates:  <b>05hr 49' 55"</b>  <b>00° 10' 35"</b></p> <p>Close Star: SAO-132346 (Annilam)            Catalog Objects: <a href="#">LDN-1622</a>            Imaging Window: <b>08:22 – 12:56</b>            Transit: <b>10:36   59°</b></p>	<p style="text-align: center;">HyperStar</p> 
<p><b>LDN-1622 (Region 03)</b>            Config: C11-HD   HS              ZWO6200MC</p> <p>Type: <b>Bright and Dark Nebula</b>            Peak:            Coordinates:  <b>05hr 54' 51"</b>  <b>01° 47' 10"</b></p> <p>Close Star: SAO-112740(Bellatrix)            Catalog Objects: <a href="#">LDN-1622</a></p> <p>Imaging Window: <b>08:22 – 12:56</b>            Transit: <b>10:36   59°</b></p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 



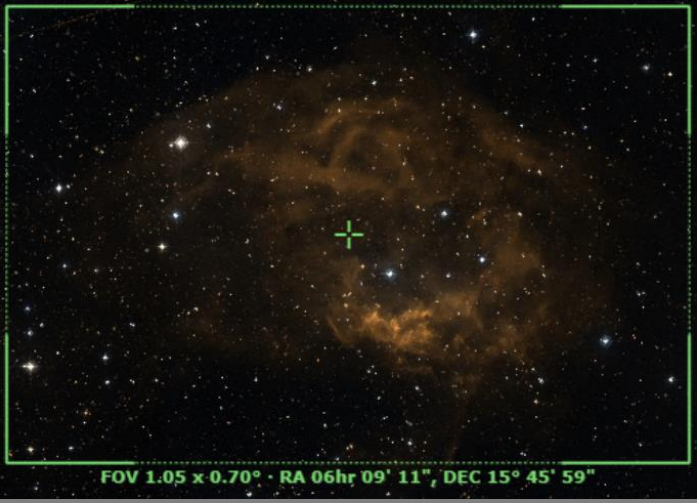


# Prospective Imaging Objects – January

<p><b>LDN 1622</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula</b> Peak: Constellation: <b>Orion</b></p> <p><b>Camera Rotation - 90°</b> Frame 01 RA: <b>05hr 56' 28"</b>DEC: <b>01° 58' 32"</b> Frame 02 RA: <b>05hr 54' 08"</b>DEC: <b>01° 58' 35"</b></p> <p>Close Star: SAO-132346 (Annilam) Catalog Objects: <a href="#">LDN-1622</a></p> <p>Imaging Window: <b>08:22 – 12:56</b> Transit: <b>10:36   59°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b> <b>Composite!</b></p> 
<p><b>LDN-1622</b> Config:  C11HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Bright and Dark Nebula</b> Peak: Constellation: <b>Orion</b> Coordinates: <b>05hr 54' 52"</b> <b>01° 49' 51"</b></p> <p>Close Star: SAO-112740(Bellatrix) Catalog Objects: <a href="#">LDN-1622</a></p> <p>Imaging Window: <b>08:22 – 12:56</b> Transit: <b>10:36   59°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>LDN 1622</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula</b> Peak: Constellation: <b>Orion</b> Coordinates: <b>05hr 54' 55"</b> <b>01° 49' 49"</b></p> <p>Close Star: SAO-132346 (Annilam) Catalog Objects: <a href="#">LDN-1622</a></p> <p>Imaging Window: <b>08:22 – 12:56</b> Transit: <b>10:36   59°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – January

<p><b>Angel Nebula (NGC 2170)</b>            Config:  C11-            HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Bright and Dark Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 08' 26"</b>  <b>-06° 25' 24"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">NGC-2170</a></p> <p>Imaging Window: <b>09:24 – 12:22</b>            Transit: <b>10:50</b></p>	<p><b>C-11 HD: Focal Reducer</b></p> <p>FOV 1.04 x 0.70° · RA 06hr 08' 26", DEC -06° 25' 24"</p> 
<p><b>Angel Nebula (NGC 2170)</b>            Config:  C11-HD  ZWO6200MC </p> <p>Type: <b>Bright and Dark Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 08' 26"</b>  <b>-06° 25' 24"</b></p> <p>Close Star: SAO-132542 (Saiph)            Catalog Objects: <a href="#">NGC-2170</a></p> <p>Imaging Window: <b>09:24 – 12:22</b>            Transit: <b>10:50</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p><small>Angel Nebula (NGC-2170)            Constellation: Monoceros            SAO number: 132542 · RA = 06hr 08' 26" · DEC = -06° 25' 24" · Orientation: Edge E of N · Pixel scale = 0.445 arc/pixel [1] · 0.90mm</small></p> <p><small>Janis Votav   Linnæus   Messier: 2170 · DSS2: J16.121 · Chandra: 2170 · 16.121 · AZ            Credit: C-11 HD   ZWO6200MC   1200T300            Exposure: 1.0s · 470nm/50nm · Gain: 3000 · DR15 · 1.0"</small></p>
<p><b>IC-2162 &amp; SH 2-261</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>06hr 10' 56"</b>  <b>16° 32' 17"</b>            Angle: <b>90° East</b></p> <p>Close Star: SAO-78297 (Calix)            Catalog Objects: <a href="#">IC-2162</a> <a href="#">Sh 2-261</a></p> <p>Imaging Window: <b>07:50 – 01:57</b>            Transit: <b>10:51   72°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p> <p>FOV 3.80 x 2.53° · RA 06hr 10' 56" · DEC 16° 32' 17"</p> 


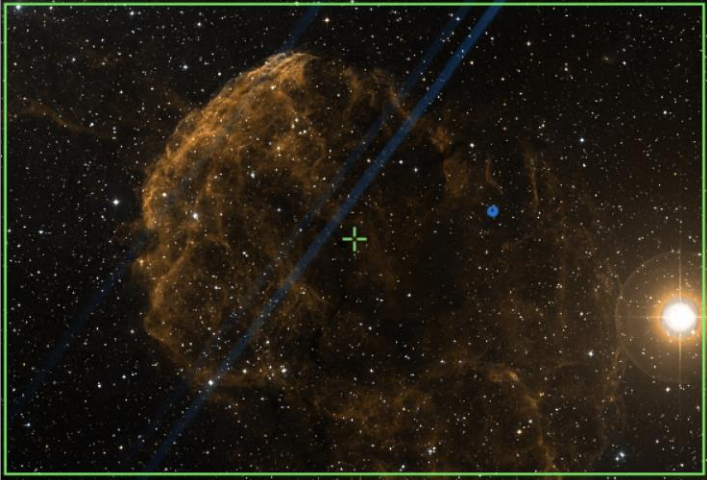

# Prospective Imaging Objects – January

<p><b>Lower's Nebula (Sh 2-261)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>06hr 09' 11"</b>  <b>15° 45' 59"</b></p> <p>Close Star: <b>SAO-78297</b> (Calix)            Catalog Objects: <a href="#">Sh 2-261</a></p> <p>Imaging Window: <b>07:50 – 01:57</b>            Transit: <b>10:51   72°</b></p>	<p style="text-align: center;">C-11 HD: <b>Focal Reducer</b></p>  <p style="text-align: center;">FOV 1.05 x 0.70° · RA 06hr 09' 11", DEC 15° 45' 59"</p>
<p><b>Lower's Nebula (Sh 2-261)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>06hr 08' 59"</b>  <b>15° 46' 39"</b></p> <p>Close Star: <b>SAO-78297</b> (Calix)            Catalog Objects: <a href="#">Sh 2-261</a></p> <p>Imaging Window: <b>07:50 – 01:57</b>            Transit: <b>10:51   72°</b></p>	<p style="text-align: center;">C-11 HD: <b>Primary Focus</b></p> 
<p><b>M-35, NGC-2158</b>            Config:  C11-            HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Open Cluster Pair</b>            Constellation: <b>Gemini</b>            Coordinates:  <b>06hr 08' 39"</b>  <b>24° 14' 48"</b></p> <p>Close Star: <b>SAO-95912</b> (Alhena)            Catalog Objects: <a href="#">M-35</a>/NGC-2168,            NGC-2158</p> <p>Imaging Window: <b>07:31 – 02:17</b>            Transit: <b>10:51   81°</b></p>	<p style="text-align: center;">C-11 HD: <b>Focal Reducer</b></p> 

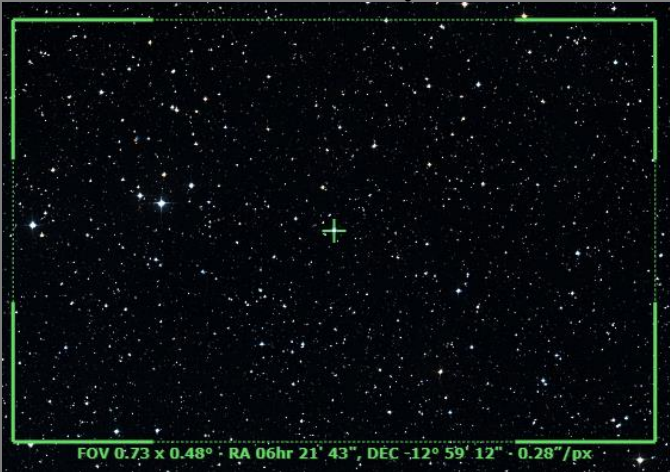


# Prospective Imaging Objects – January

<p><b>Monkey Head (NGC-2174)</b>            Config:  C11-            HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>06hr 09' 50"</b>  <b>20° 29' 50"</b></p> <p>Close Star: SAO-78297 (Calix)            Catalog Objects: <a href="#">NGC-2174</a>/Sh 2-252</p> <p>Imaging Window: <b>07:39 – 02:09</b>            Transit: <b>10:51   77°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> <p style="text-align: center;">FOV 1.04 x 0.69° · RA 06hr 09' 55", DEC 20° 33' 45"</p> 
<p><b>Monkey Head (NGC 2174)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>06hr 09' 50"</b>  <b>20° 29' 50"</b></p> <p>Close Star: SAO-78297 (Calix)            Catalog Objects: <a href="#">NGC-2174</a>/Sh 2-252</p> <p>Imaging Window: <b>07:39 – 02:09</b>            Transit: <b>10:51   77°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Monkey Head Nebula (NGC-2174)            Constellation: Orion            RA = 06h 09m 49.31s, DEC = +20deg 29' 52.18"   Size = 33.1 x 26.8 arcmin   Pixel scale = 0.446 arcsec/pixel   F1 = 2.72mm            James Yoder 2024-02-14 Location: Chandler, AZ            Config:  C-11 HD Astromaster C11ACD QHY135L1            Exposure Info: 27Times/Frame   Gain: 3200   ISO/Sec: 190</p>
<p><b>IC 2162</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Orion</b>            Coordinates:  <b>06hr 12' 25"</b>  <b>17° 59' 26"</b></p> <p>Close Star: SAO-78297 (Calix)            Catalog Objects: <a href="#">IC-2162</a></p> <p>Imaging Window: <b>07:49 – 02:07</b>            Transit: <b>10:55   75°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Bright Nebula IC-2162            Constellation: Orion            RA = 06h 12m 16.46s, DEC = +17deg 59' 18.23"   Size = 42.9 x 23.87 arcmin   Pixel scale = 0.441 arcsec/pixel            James Yoder 2024-01-25 Location: Chandler, AZ            Config:  C-11 HD Astromaster C11ACD QHY135L1            Exposure Info: 220Times/Frame   Gain: 3200   ISO/Sec: 190</p>



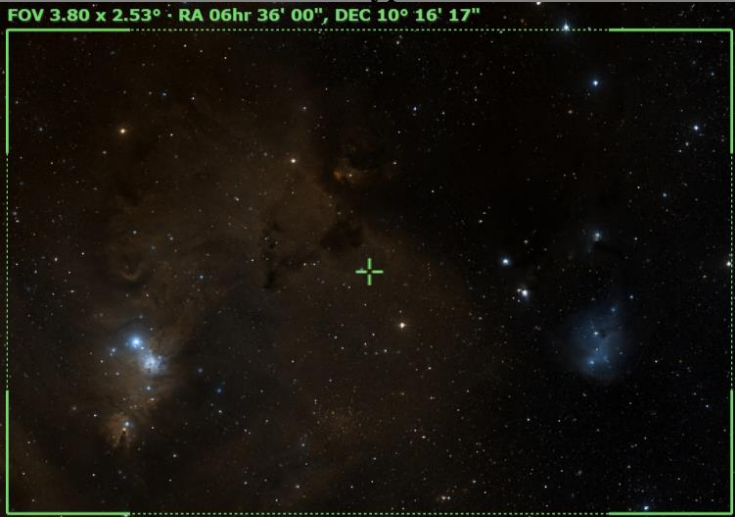
# Prospective Imaging Objects – January

<p><b>Jellyfish Nebula (IC 443)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Supernova Remnant</b>            Peak:            Constellation: <b>Gemini</b>            Coordinates:  <b>06hr 19' 56"</b>  <b>23° 06' 17"</b></p> <p>Close Star: SAO-78297 (Calix)            Catalog Objects: <a href="#">IC-443</a></p> <p>Imaging Window: <b>07:43 – 02:21</b>            Transit: <b>10:59   79°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Jellyfish Nebula (IC-443)            Constellation: Gemini            I.R.A. = 23h 19m 25.0s, DEC = +06deg 31' 18.6"   Size = 3.34 x 2.89 deg   Orientation: obj E of N   Pixel scale = 2.28 arcsecond   FL = 540mm            James Taylor   Date: 2024-10-21   Location: Chandler, AZ            Config: C-11HD   HyperStar V4   Astromomik CLS-CDD   QHY128c            Exposure info: 25frames@20s   Gain: 3200   Offset: 100</p>
<p><b>Jellyfish Nebula (IC 443)</b>            Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Supernova Remnant</b>            Peak:            Constellation: <b>Gemini</b>            Coordinates:  <b>06hr 16' 59"</b>  <b>22° 37' 29"</b></p> <p>Close Star: SAO-78297 (Calix)            Catalog Objects: <a href="#">IC-443</a></p> <p>Imaging Window: <b>07:43 – 02:21</b>            Transit: <b>10:59   79°</b></p>	<p style="text-align: center;">C11-HD: <b>Focal Reducer</b></p>  <p style="font-size: small;">Jellyfish nebula (IC 443)            Constellation: Gemini            James Taylor   Date: 2024-10-21   Location: Chandler, AZ            Config: C11   Starizona L4 Corrector   QHY128C   Filter: QHY128c            Exposure info: 100frames@20s   Gain: 3200   Offset: 100</p>
<p><b>Jellyfish Nebula (IC 443)</b>            Config:  C11 LF ZWO6200MC </p> <p>Type: <b>Supernova Remnant</b>            Peak:            Constellation: <b>Gemini</b>            Coordinates:  <b>06hr 16' 51"</b>  <b>22° 36' 34"</b></p> <p>Close Star: SAO-78297 (Calix)            Catalog Objects: <a href="#">IC-443</a></p> <p>Imaging Window: <b>07:43 – 02:21</b>            Transit: <b>10:59   79°</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p>  <p style="font-size: small;">Jellyfish nebula (IC 443)            Constellation: Gemini            James Taylor   Date: 2024-10-21   Location: Chandler, AZ            Config: C11   Starizona L4 Corrector   QHY128C   Filter: QHY128c            Exposure info: 100frames@20s   Gain: 3200   Offset: 100</p>



# Prospective Imaging Objects – January

<p><b>IC-2165</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Peak:            Constellation: <b>Canis Major</b>            Coordinates:  <b>06hr 21' 43"</b>  <b>-12° 59' 12"</b></p> <p>Close Star:            Catalog Objects: <a href="#">IC-2165</a></p> <p>Imaging Window: *08:29 – 01:09            Transit: 11:03   44°</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 0.48° · RA 06hr 21' 43", DEC -12° 59' 12" · 0.28"/px</p>
<p><b>SH 2-249</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Gemini</b>            Coordinates:  <b>06hr 19' 15"</b>  <b>23° 24' 58"</b></p> <p>Close Star: SAO-78297 (Calix)            Catalog Objects: <a href="#">SH 2-249</a></p> <p>Imaging Window: 07:47 – 02:27            Transit: 11:04   80°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Rosette Nebula (NGC 2237)</b>            Config: C11-HD   HS              ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b>            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 31' 53.37"</b>  <b>04° 50' 45.29"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">NGC-2237</a> ,NGC-2244</p> <p>Imaging Window: 08:45 – 01:45            Transit: 11:12   62°</p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: x-small;">Rosette Nebula (NGC 2237, 2240, 2246, 2279, 2246)            C-11 Hyperstar   1600iso   92min            James Taylor            2017.12.15</p>

# Prospective Imaging Objects – January

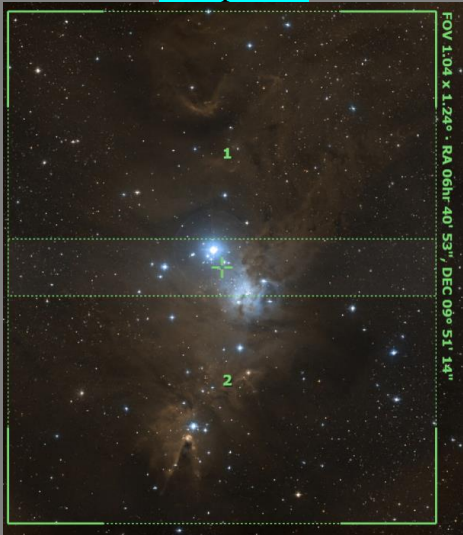
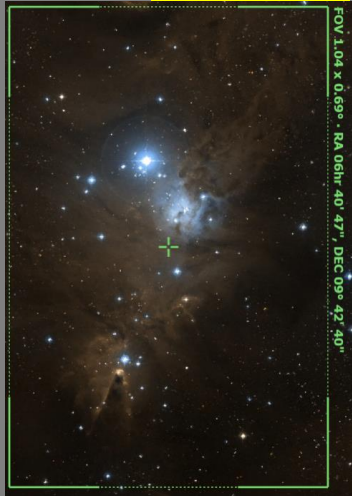

<p><b>Rosette Nebula (NGC 2237)</b>            Config:  C11-            HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 32' 01"</b>  <b>04° 59' 28"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">NGC-2237</a></p> <p>Imaging Window: <b>08:45 – 01:45</b>            Transit: <b>11:12   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Rosette Nebula (NGC 2237)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 32' 02"</b>  <b>04° 58' 14"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">NGC-2237</a></p> <p>Imaging Window: <b>08:45 – 01:45</b>            Transit: <b>11:12   62°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>IC-2169</b>            Config: C11   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 36' 00"</b>  <b>10° 16' 17"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">IC-2169</a></p> <p>Imaging Window: <b>08:28 – 02:04</b>            Transit: <b>11:13   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> <p style="text-align: center;">FOV 3.80 x 2.53° : RA 06hr 36' 00", DEC 10° 16' 17"</p> 

# Prospective Imaging Objects – January



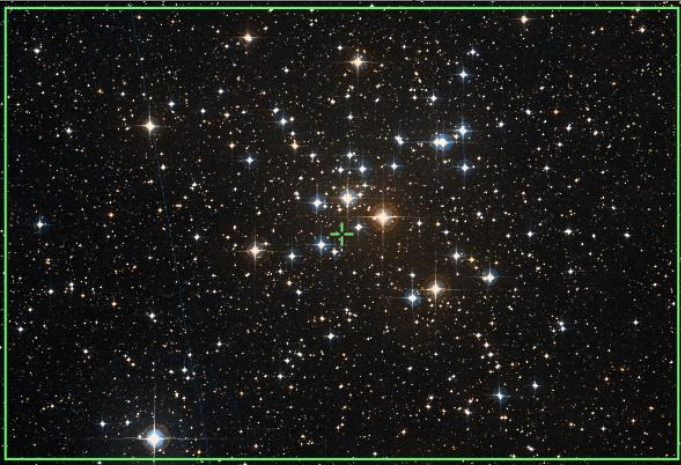
<p><b>IC 2169</b>            Config:  C11-            HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 31' 21"</b>  <b>09° 56' 20"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">IC-2169</a></p> <p>Imaging Window: <b>08:28 – 02:04</b>            Transit: <b>11:13   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>IC 2169</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 31' 36"</b>  <b>09° 58' 16"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">IC-2169</a></p> <p>Imaging Window: <b>08:28 – 02:04</b>            Transit: <b>11:13   80°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Hubble's Variable Nebula (NGC 2261)</b>            Config:  C11HD  ZWO6200MC </p> <p>Type: <b>Reflection Nebula</b>            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 39' 12"</b>  <b>08° 45' 00"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">NGC-2261</a></p> <p>Imaging Window: <b>08:41 – 02:07</b>            Transit: <b>11:21   65°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 






# Prospective Imaging Objects – January

<p><b>Christmas Tree &amp; Cone</b>            Config:  C11-            HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Coordinates:            Pane 1: <b>06hr 40' 53", 10° 07' 47"</b>            Pane 2, <b>06hr 40' 53", 09° 34' 40"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">NGC-2264</a>/Sh 2-273</p> <p>Imaging Window: <b>08:39 – 02:13</b>            Transit: <b>11:23   67°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b>  <b>Composite!</b></p> 
<p><b>Christmas Tree &amp; Cone</b>            Config:  C11-            HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Monoceros</b></p> <p>Coordinates:  <b>06hr 40' 47"</b>  <b>09° 42' 40"</b>            Angle: <b>90° East</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">NGC-2264</a>/Sh 2-273</p> <p>Imaging Window: <b>08:39 – 02:13</b>            Transit: <b>11:23   67°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Christmas Tree Cluster</b> (<a href="#">NGC 2264</a>)            Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Monoceros</b></p> <p>Coordinates:  <b>06hr 40' 58.74"</b>  <b>09° 53' 32.69"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">NGC-2264</a>/Sh 2-273</p> <p>Imaging Window: <b>08:39 – 02:13</b>            Transit: <b>11:23   67°</b></p>	<p style="text-align: center;"><b>Primary Focus</b></p> 



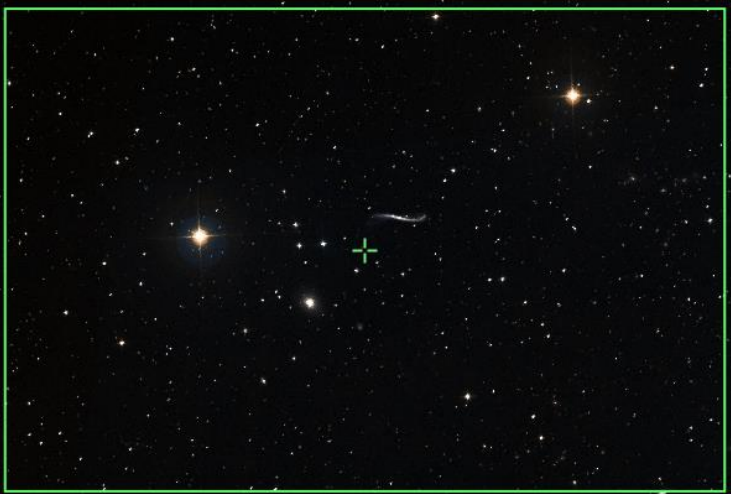
# Prospective Imaging Objects – January

<p><b>Christmas Tree &amp; Cone</b>            Config:  C6FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 40' 51.6"</b>  <b>09° 40' 25.2"</b>            Angle: <b>90° East</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">NGC-2264</a>/Sh 2-273</p> <p>Imaging Window: <b>08:39 – 02:13</b>            Transit: <b>11:23   67°</b></p>	<p style="text-align: center;"><b>C-6 HD: Focal Reducer</b></p>  <p style="font-size: small;">NGC-2264 (Cone &amp; Christmas Tree Nebula)  <small>Constellation: Monoceros            [RA = 06h 40m 51.6s DEC = +09deg 40' 25.2" Size = 55.0 x 36.7 arcmin] Orientation: 270deg E of N   Pixel scale = 0.667 arcsec/pixel   FL=1166mm</small></p> <p style="font-size: x-small; text-align: right;">Name: Video   Date(s): 2024-01-26-27   Location: Chandler, AZ            Config:  C-6SE 0.63 Focal Reducer OPI Radwin Triad Ultra ZWO6200MC             Exposure Info:  133.frm@2min Gain: 100 </p>
<p><b>Cone Nebula-1 (NGC 2264)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>06hr 41' 07"</b>  <b>09° 27' 52"</b></p> <p>Close Star: SAO-95912 (Alhena)            Catalog Objects: <a href="#">NGC-2264</a>/Sh 2-273</p> <p>Imaging Window: <b>08:39 – 02:13</b>            Transit: <b>11:23   67°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-41 (NGC 2287)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b>            Constellation: <b>Canis Major</b>            Coordinates:  <b>06hr 46' 09"</b>  <b>20° 47' 35"</b></p> <p>Close Star: <b>SAO-151881</b> (Sirius)            Catalog Objects: <a href="#">M-41</a>/NGC 2287</p> <p>Imaging Window: <b>*09:38 – 01:20</b>            Transit: <b>11:28   36°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – January

<p><b>M-50</b> (NGC 2323)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b>            Constellation: <b>Monoceros</b>            Coordinates:  <b>07hr 02' 48"</b>  <b>-08° 22' 33"</b></p> <p>Close Star: <b>SAO-151881</b> (Sirius)            Catalog Objects: <a href="#">M-50</a>/NGC 2323</p> <p>Imaging Window: *09:14 – 02:14            Transit: 11:44   48°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Seagull Nebula</b> (IC-2177)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>07hr 06' 20"</b>  <b>-11° 06' 56"</b></p> <p>Close Star: SAO-151881 (Sirius)            Catalog Objects: <a href="#">IC-2177</a></p> <p>Imaging Window: *09:26 – 02:10            Transit: 11:46   46°</p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4 - 90° Rotation</b></p>  <p style="font-size: small;">Seagull Nebula (IC-2177, NGC-2327, NGC-2335, NGC-2343)  <small>Constellation: Monoceros            RA = 07h 06m 17.6s DEC = -11deg 02' 21.2" Size = 210 x 140 pixels Orientation = 80deg E of N Pixel scale = 2.27x arcsecond (1.541mas)            James Webb   Photo 2021-01-06, 10, 11, 15, 17   Location: Chandler, AZ            Config: C-11HD   HyperStar V4   Operating LoXrtime = 0419.126s              Exposure Info: 107Frames/Stack Gain: 5200 (40Sec: 181)</small></p>
<p><b>Seagull Nebula</b> (IC 2177)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>07hr 04' 47"</b>  <b>-10° 27' 49"</b></p> <p>Close Star: SAO-151881 (Sirius)            Catalog Objects: <a href="#">IC-2177</a></p> <p>Imaging Window: *09:26 – 02:10            Transit: 11:46   46°</p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – January

<p><b>Hourglass Nebula</b> (NGC-2346)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Peak:            Constellation: <b>Monoceros</b>            Coordinates:  <b>07hr 09' 23"</b>  <b>00° 48' 22"</b></p> <p>Close Star: SAO-115756 (Procyon)            Catalog Objects: <a href="#">NGC-2346</a></p> <p>Imaging Window: *<b>09:18 – 02:29</b>            Transit: <b>11:51   56°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus x2</b></p>  <p style="font-size: small; text-align: center;">Planetary Nebula NGC-2346  <small>Constellation: Monoceros            RA: 07h 09m 23s DEC: +00d 48m 22s Size: 25.7 x 17.1 arcmin Observed with C-11 HD Teleskop - 3.278 m (10.74 ft) - 200mm            Date: 2024-11-05 Filter: None FWHM: 0.87 Arcsec Camera: ZWO ASI2600MC</small></p>
<p><b>Integral Sign Galaxy</b> (UGC 3697)            Config:  C11HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Galaxy Group</b>            Constellation: <b>Camelopardalis</b>            Coordinates:  <b>07hr 11' 40"</b>  <b>71° 56' 04"</b></p> <p>Close Star: <b>SAO-40186</b> (Capella)            Catalog Objects: <a href="#">UGC-3697</a>, UGC-3714, UGC-3701</p> <p>Imaging Window: <b>08:58 – 02:54</b>            Transit: <b>11:53   52°</b></p>	<p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b></b></p> 
<p><b>Integral Sign Galaxy</b> (UGC 3697)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b>            Constellation: <b>Camelopardalis</b>            Coordinates:  <b>07hr 11' 50"</b>  <b>71° 48' 14"</b></p> <p>Close Star: <b>SAO-40186</b> (Capella)            Catalog Objects: <a href="#">UGC-3697</a>, UGC-3714, UGC-3701</p> <p>Imaging Window: <b>08:58 – 02:54</b>            Transit: <b>11:53   52°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – January

<p><b>Thor's Helmet (NGC-2359)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b>            Constellation: <b>Canis Major</b>            Coordinates:  <b>07h 18' 26.223"</b>  <b>-13° 15' 29.563"</b></p> <p>Close Star: SAO-151881 (Sirius)            Catalog Objects: <a href="#">NGC-2359</a>/            Sh2-298/ LBN1041</p> <p>Imaging Window: *<b>09:57 – 02:02</b>            Transit: <b>12:00   43°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">Thor's Helmet (NGC 2359)            Constellation: Canis Major</p> <p style="font-size: x-small; text-align: right;">James Yoder   Direct   2023-01-11   Location: Chandler, AZ            Config: C-11 HD Primary Focus Filter: OIII+IR            Exposure Info: (00min)Gain: Gain: 3200   Offset: 100</p>
<p><b>Candy Wrapper (NGC-2371)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Constellation: <b>Gemini</b>            Coordinates:  <b>07° 25' 34"</b>  <b>29° 29' 18"</b></p> <p>Close Star: SAO-151881 (Sirius)            Catalog Objects: <a href="#">NGC-2371</a></p> <p>Imaging Window: <b>08:39 – 03:42</b>            Transit: <b>12:07   86°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus x2</b></p>  <p style="font-size: x-small; text-align: center;">Candy Wrapper (NGC 2371)            Constellation: Gemini</p> <p style="font-size: x-small; text-align: right;">James Yoder   Direct   2023-01-11   Location: Chandler, AZ            Config: C-11 HD Primary Focus Filter: OIII+IR            Exposure Info: (00min)Gain: Gain: 3200   Offset: 100</p>
<p><b>Medusa Nebula (Abell 21)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Gemini</b>            Coordinates:  <b>07h 29' 00"</b>  <b>13° 15' 00"</b></p> <p>Close Star: SAO-115756 (Procyon)            Catalog Objects: <a href="#">Abell 21</a></p> <p>Imaging Window: <b>09:17 – 03:11</b>            Transit: <b>12:11   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small; text-align: center;">Abell-21 (Medusa Nebula)            Constellation: Gemini            RA = 7h 29m 54.9s   DEC = 13deg 15' 20.8"   Size = 38.7 x 26.1 arcmin   Orientation: 0.8deg E of N   Pixel scale = 0.579 arcsec/pixel   FL=1720mm</p> <p style="font-size: x-small; text-align: right;">James Yoder   Direct   2023-01-25, 26, 27, 28, 2024-02-02, 03   Location: Chandler, AZ            Config: C-11 HD Primary Focus Filter: OIII+IR            Exposure Info: 300min@Gain: Gain: 3200   Offset: 100</p>

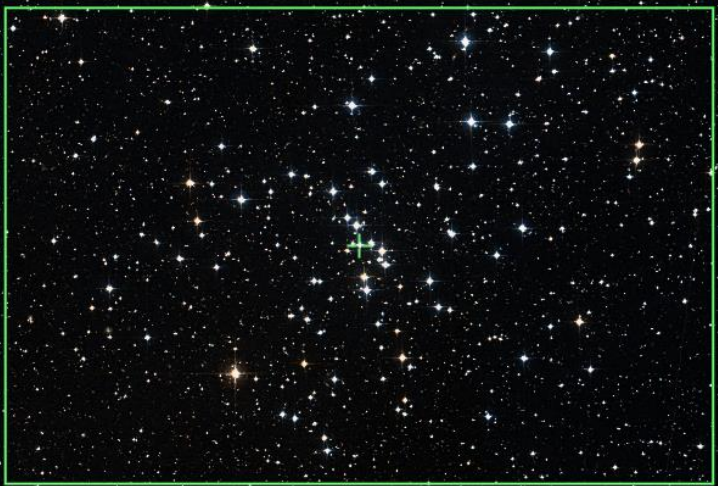
# Prospective Imaging Objects – January

<p><b>Eskimo Nebula (NGC-2392)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Gemini</b> Coordinates: <b>07h 29' 11"</b> <b>20° 54' 45"</b></p> <p>Close Star: <b>SAO-79666</b> (Pollux) Catalog Objects: <a href="#">NGC-2392</a></p> <p>Imaging Window: <b>08:58 – 03:30</b> Transit: <b>12:11   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC-2392 (Eskimo Nebula) James Yoder   Date(s) 2020.12.09   Location: Chandler, AZ   Constellation: Gemini   Config:  C-11 HD (OPT) Triad Ultra   ZWO6200MC   Exposure Info: 144 frames/Stack   Gain: 100   Offset: 50   RA = 07h 29m 11.5s   DEC = +20deg 54' 33.6"   Size = 18.5 x 13.9 arcmin   Orientation: 0.5deg E of N   Pixel scale = 0.278 arcsec/pixel   F1=2000mm  </p>
<p><b>M-47 (NGC-2422)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Puppis</b> Coordinates: <b>07h 36' 36"</b> <b>-14° 32' 19"</b></p> <p>Close Star: <b>SAO-79666</b> (Pollux) Catalog Objects: <a href="#">M-47</a>/NGC-2422</p> <p>Imaging Window: <b>*10:24 – 02:10</b> Transit: <b>12:18   42°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-2403</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Camelopardalis</b> Coordinates: <b>07h 36' 51"</b> <b>65° 36' 06"</b></p> <p>Close Star: <b>SAO-79666</b> (Pollux) Catalog Objects: <a href="#">NGC-2403</a></p> <p>Imaging Window: <b>08:49 – 03:54</b> Transit: <b>12:18   58°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Galaxy NGC-2403 (Calwell 7) James Yoder   Date(s) 2020.12.09   Location: Chandler, AZ   Constellation: Camelopardalis   Config:  C-11 HD (OPT) Triad Ultra   ZWO6200MC   Exposure Info: 144 frames/Stack   Gain: 100   Offset: 50   RA = 07h 36m 51.5s   DEC = +65deg 36' 06"   Size = 18.5 x 13.9 arcmin   Orientation: 0.5deg E of N   Pixel scale = 0.278 arcsec/pixel   F1=2000mm  </p>

# Prospective Imaging Objects – January


<p><b>Intergalactic Wanderer (NGC-2419)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Lynx</b> Coordinates: <b>07h 38' 09"</b> <b>38° 52' 57"</b></p> <p>Close Star: <b>SAO-79666</b> (Pollux) Catalog Objects: <a href="#">NGC-2419</a></p> <p>Imaging Window: <b>08:39 – 04:07</b> Transit: <b>12:20   84°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">Intergalactic Wanderer (NGC-2419) © 2024 Starizona Optics, Inc. All rights reserved. Starizona Optics, Inc. is not responsible for any damage to equipment or loss of data.</p>
<p><b>M-46 (NGC-2437)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster with PN</b></p> <p>Constellation: <b>Puppis</b> Coordinates: <b>07h 41' 45"</b> <b>-14° 46' 43"</b></p> <p>Close Star: <b>SAO-151881</b> (Sirius) Catalog Objects: <a href="#">M-46</a>/NGC-2437, NGC-2438</p> <p>Imaging Window: <b>*10:35 – 02:18</b> Transit: <b>12:23   42°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">NGC-2438 © 2024 Starizona Optics, Inc. All rights reserved. Starizona Optics, Inc. is not responsible for any damage to equipment or loss of data.</p>
<p><b>Bow-Tie Nebula (NGC-2440)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Puppis</b> Coordinates: <b>07° 41' 55"</b> <b>-18° 12' 29"</b></p> <p>Close Star: <b>SAO-151881</b> (Sirius) Catalog Objects: <a href="#">NGC-2440</a></p> <p>Imaging Window: <b>*10:20 – 02:33</b> Transit: <b>12:23   38°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus x2</b></p>  <p style="font-size: small; text-align: center;">FOV 0.73 x 0.49° • RA 07hr 41' 55", DEC -18° 12' 29"</p>

# Prospective Imaging Objects – January




<p><b>Butterfly Cluster</b> (M-93, NGC-2447)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Puppis</b>            Coordinates:  <b>07h 44' 46"</b>  <b>-23° 51' 52"</b></p> <p>Close Star: <b>SAO-151881</b> (Sirius)            Catalog Objects: <a href="#">M-93</a>/NGC-2447</p> <p>Imaging Window: *<b>10:16 – 02:41</b>            Transit: <b>12:26   33°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-48</b> (NGC-2548)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Hydra</b>            Coordinates:  <b>08h 13' 46"</b>  <b>-05° 46' 05"</b></p> <p>Close Star: <b>SAO-115756</b> (Procyon)            Catalog Objects: <a href="#">M-48</a>/NGC-2548</p> <p>Imaging Window: <b>11:24 – 02:33</b>            Transit: <b>12:55   51°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-2610</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Hydra</b>            Coordinates:  <b>08h 33' 23"</b>  <b>-16° 08' 55"</b></p> <p>Close Star: <b>SAO-151881</b> (Sirius)            Catalog Objects: <a href="#">NGC-2610</a>            Imaging Window: <b>11:36 – 03:00</b>            Transit: <b>01:15   41°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus x2</b></p> 




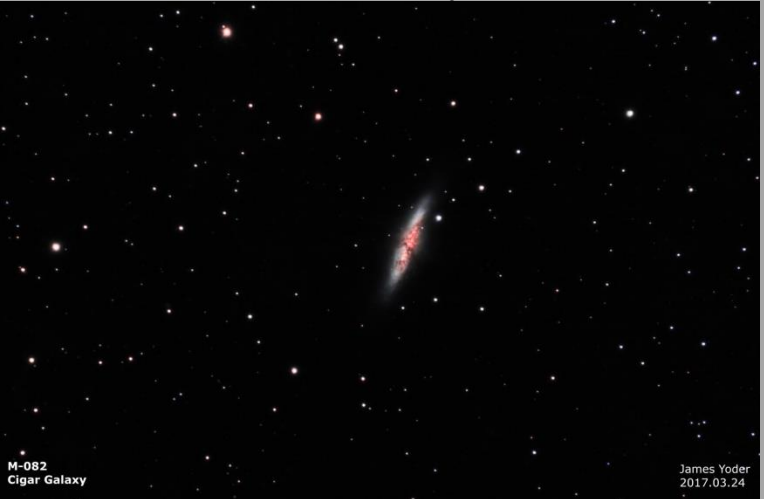

# Prospective Imaging Objects – January

<p><b>Beehive Cluster</b> (NGC-2632) Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Cancer</b> Coordinates: <b>08h 39' 59"</b> <b>19° 39' 01"</b></p> <p>Close Star: <b>SAO-115756</b> (Procyon) Catalog Objects: <a href="#">M-44</a>/NGC-2632</p> <p>Imaging Window: <b>10:12 – 04:38</b> Transit: <b>01:22   76°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p> 
<p><b>M-67</b> (NGC-2682) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Cancer</b> Coordinates: <b>08h 51' 18"</b> <b>11° 48' 60"</b></p> <p>Close Star: <b>SAO-115756</b> (Procyon) Catalog Objects: <a href="#">M-67</a>/NGC-2682</p> <p>Imaging Window: <b>10:43 – 04:29</b> Transit: <b>01:33   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Helix Galaxy</b> (NGC-2685) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Ursa Major</b> Coordinates: <b>08h 55' 14"</b> <b>58° 42' 24"</b></p> <p>Close Star: <b>SAO-27876</b> (Merak) Catalog Objects: <a href="#">NGC-2685</a></p> <p>Imaging Window: <b>09:54 – 05:27</b> Transit: <b>01:37   65°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 


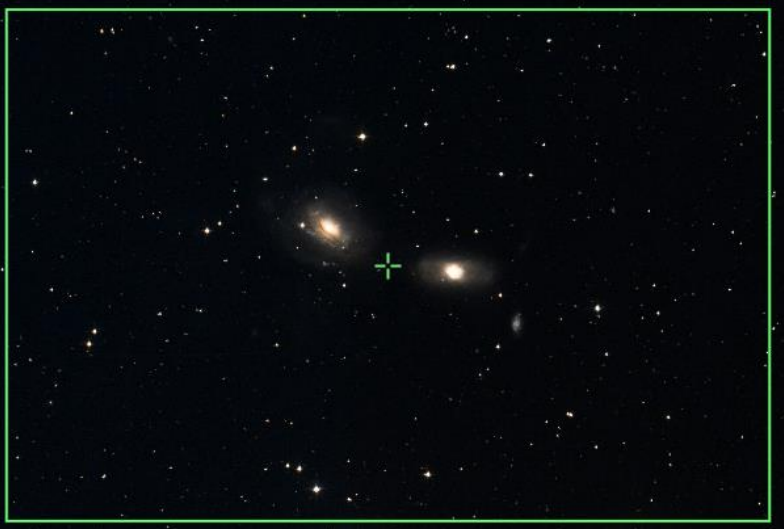

# Prospective Imaging Objects – January

<p><b>NGC-2903</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Leo</b> Coordinates: <b>09h 32' 08.949"</b> <b>21° 30' 37.772"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus) Catalog Objects: <a href="#">NGC-2903</a></p> <p>Imaging Window: <b>11:00 – 05:34</b> Transit: <b>02:13   78°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC-2903 Barred Spiral Galaxy in Leo</p> <p style="text-align: right; font-size: small;">James Yoder 2017.02.24</p>
<p><b>Bode's Cigar (M81 &amp; M82)</b> Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxy Pair</b> Peak:</p> <p>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>11:27 – 05:54</b> Transit: <b>02:37   54°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: x-small;">Cigar galaxy (M-82), Bode's galaxy (M-81), NGC-2976</p> <p style="font-size: x-small;">James Yoder   Date(s) 2020.12.01, 2020.12.01   Location: Chandler, AZ Config: C-11HD   HyperStar v4   1.2P-DS, C11-SCD   GH1 LDC Exposure Info: 9/50mm@f8sec, 240mm@f8sec   Gain: 5200   OIBit: 180</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>11:27 – 05:54</b> Transit: <b>02:37   54°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: x-small; transform: rotate(-90deg); position: absolute; left: -100px; top: 50px;">FOV 1.04 x 0.69° · RA 09hr 55' 40" · DEC 69° 18' 39" · 0.39"/px</p>



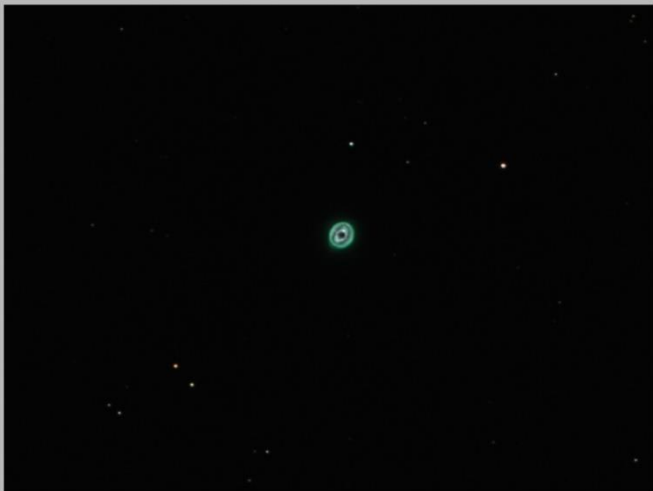
# Prospective Imaging Objects – January

<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>11:23 – 05:58</b> Transit: <b>02:37   54°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;">M-81 Bode's Galaxy</p> <p style="text-align: right;">James Yoder 2015.11.14</p>
<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>11:27 – 05:54</b> Transit: <b>02:37   54°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;">M-82 Cigar Galaxy</p> <p style="text-align: right;">James Yoder 2017.03.24</p>
<p><b>Spindel 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>*12:15 – 05:22</b> Transit: <b>02:46   49°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;">Spindel Galaxy (NGC-3115)</p> <p style="text-align: right;">James Yoder 2017.03.24</p>




# Prospective Imaging Objects – January

<p><b>Powder keg Galaxy (UGC-5470)</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>10h 08' 27"</b>  <b>12° 19' 49"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)            Catalog Objects: <a href="#">UGC-5470</a></p> <p>Imaging Window: <b>11:59 – 05:48</b>            Transit: <b>02:59   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">Dwarf Galaxy Leo I (UGC-5470)            Constellation: Leo (Leo)            RA: 10h 08m 27.00s   Dec: 12d 19m 49.00s   Size: 9.0" x 7.0"   Scale: 30.0"/arcmin   Observed: 2024-11-07   Filter: RGB   FWHM: 0.7"   Gain: 1.0</p>
<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>, <a href="#">NGC-3169</a></p> <p>Imaging Window: <b>12:35 – 05:22</b>            Transit: <b>02:55   60°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">NGC-3166 &amp; NGC-3169            Constellation: Sextans            RA: 10h 14m 01.00s   Dec: 03d 25m 51.00s   Size: 12.0" x 12.0"   Scale: 30.0"/arcmin   Observed: 2024-11-07   Filter: RGB   FWHM: 0.7"   Gain: 1.0</p>
<p><b>Hickson 44 (NGC-3190, 3189,)</b>            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, <a href="#">PGC-2806871</a></p> <p>Imaging Window: <b>11:45 – 06:04</b>            Transit: <b>02:59   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)            Constellation: Leo            RA: 10h 17m 57.00s   Dec: 21d 49m 11.00s   Size: 15.0" x 15.0"   Scale: 30.0"/arcmin   Observed: 2024-11-07   Filter: RGB   FWHM: 0.7"   Gain: 1.0</p>




# Prospective Imaging Objects – January

<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>11:17 – 06:04</b> Transit: <b>02:59   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 Constellation: Ursa Major RA=10h 18m 16.97s, DEC=+41° 25' 24.00"   Orientation: 01.000deg Pixel scale: 0.278 arcsec/pixel   FL=200mm</p>
<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>, <a href="#">NGC-3226</a></p> <p>Imaging Window: <b>11:55 – 03:05</b> Transit: <b>03:05   76°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Ghost of Jupiter</b> (NGC-3242) 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>*01:01 – 05:14</b> Transit: <b>03:06   38°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small;">NGC-3242 (Ghost of Jupiter) Constellation: Hydra RA=10h 24m 44.7s, DEC=-18deg 38' 31.0"   Size=18.3 x 13.9 arcmin   Orientation: -0.64deg E of N   Pixel scale=0.278 arcsec/pixel   FL=200mm</p> <p style="font-size: x-small; text-align: right;">James Volder   Dates: 2020.12.09 - 10   Location: Chandler, AZ Config:  C-11 HD XPT Triad Ultra   ZWO6200MC  Exposure Info:   36 frames @ 2min   Gain: 100   OffSet: 50  </p>


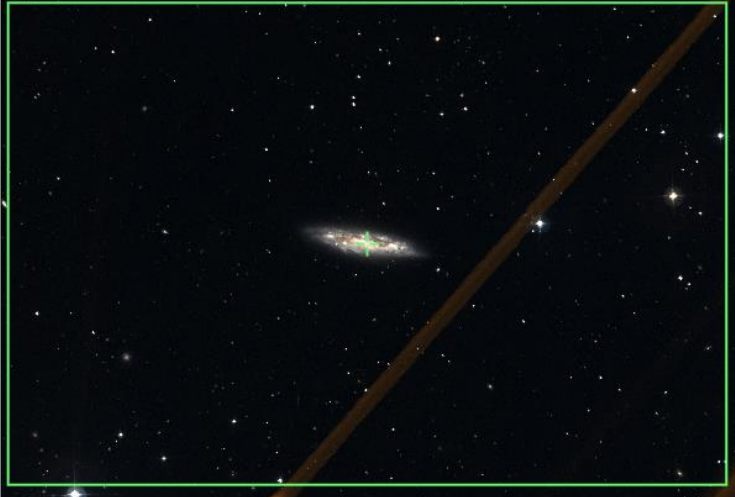

# Prospective Imaging Objects – January

<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: SAO-27876 (Merak)            Catalog Objects: <a href="#">IC-2574</a></p> <p>Imaging Window: <b>11:52 – 06:04</b>            Transit: <b>03:09   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: SAO-27876 (Merak)            Catalog Objects: <a href="#">IC-2574</a></p> <p>Imaging Window: <b>11:52 – 06:04</b>            Transit: <b>03:09   55°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;"><small>Coddington Nebula (IC-2574)            Constellation: Ursa Major            RA = 10h 28m 41.9s, DEC = +68deg 26' 48.2\"</small></p>
<p><b>Leo Galaxy Group (M-96, M95 et al.)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxy Grouping</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>10h 47' 23"</b>  <b>12° 23' 59"</b></p> <p>Close Star: SAO-98967 (Regulus)            Catalog Objects: <a href="#">M-96</a>, M95, NGC3389, NGC3384, M105</p> <p>Imaging Window: <b>12:39 – 06:04</b>            Transit: <b>03:28   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="text-align: center;"><small>Galaxy Cluster in Leo            James Yoder, 2018.04.17</small></p>

# Prospective Imaging Objects – January

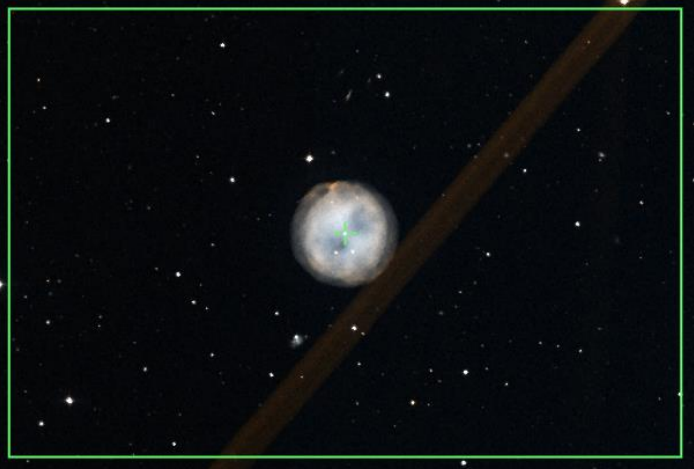


<p><b>M-95, M-96</b> (NGC-3351, 3368)            Config:  C11-            HD FR ZWO6200MC </p> <p>Type: <b>Galaxy Pair</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>10h 45' 20"</b>  <b>11° 44' 30"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)            Catalog Objects: <a href="#">M-95</a>, M-96</p> <p>Imaging Window: <b>12:36 – 06:04</b>            Transit: <b>03:25   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small;">Galaxy pair M-95(NGC-3351) &amp; M-96(NGC-3368)            Constellation: Leo the Lion            RA: 10h 45m 20.0s DEC: +11deg 44' 30.0" Size: 79.3 x 68.0 arcmin (Pixel scale: ~0.578 arcsec/pixel)            James Yoder (2024-03-27) Location: Mountain View, CA            Imaging: C-11 HD 700 Series (FR) 120s            Exposure: 120 (Stack: 500) Offset: 180</p>
<p><b>Leo Trio 2</b> (NGC-3379, 3384, 3389)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Trio of Galaxies</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>10h 48' 07.227"</b>  <b>12° 33' 52.943"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)            Catalog Objects: <a href="#">M-105</a>/NGC3379,            NGC-3384, NGC-3389</p> <p>Imaging Window: <b>12:37 – 06:04</b>            Transit: <b>03:29   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">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>12:25 – 06:04</b>            Transit: <b>03:52   85°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

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<p><b>M-108 &amp; M-97</b>            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Irregular Galaxy &amp; Planetary Nebula</b></p> <p>Constellation: <b>Ursa Major</b>            Coordinates:  <b>11h 12' 49"</b>  <b>55° 20' 57"</b></p> <p>Close Star: <b>SAO-27876</b> (Merak)            Catalog Objects: <a href="#">M-108</a>/NGC-3555</p> <p>Imaging Window: <b>12:07 – 06:04</b>            Transit: <b>03:52   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 arcpixel</small></p> <p>James Yoder 2020 04 03  <small>Config:  C-11HD HyperStar V4 AstroNominik 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>12:07 – 06:04</b>            Transit: <b>03:52   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>12:10 – 06:04</b>            Transit: <b>03:56   68°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p>Owl Nebula (NGC-3597 / M-97)  <small>Constellation: Ursa Major            RA = 11h 14m 41.22s DEC = +55deg 01' 11.200" Size = 48.0 x 13.8 arcmin Pixel scale = 0.840 arcpixel</small></p> <p>James Yoder 2020 04 23  <small>Location: Chandler, AZ            Config:  C-11 HD AstroNominik CLS-CCD QHY129c-             Exposure Info:  20frames 1min  Gain: 3200  Offset: 180  </small></p>



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<p><b>Owl Nebula (NGC-3587)</b>            Config:  C11HD <b>Barlow x2</b> ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b>            Constellation: <b>Ursa Major</b>            Coordinates:  <b>11h 14' 48"</b>  <b>55° 01' 10"</b></p> <p>Close Star: <b>SAO-27876</b>            Catalog Objects: <a href="#">M-97</a>/NGC-3587</p> <p>Imaging Window: <b>12:10 – 06:04</b>            Transit: <b>03:56   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus *x2</b></p> 
<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>01:07 – 06:04</b>            Transit: <b>04:01   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus Mosaic</b></p>  <p style="font-size: small; text-align: center;">Leo Trio of Galaxies (NGC-3628, NGC-3623, NGC-3627)  <small>James Webb   Dec 2020-04-14, 2020-04-11   Lenses: Cheshire, A2   Config: C11 HD   Focuser: F100   Filter: Baader Sphagnum   Camera: SBIG DCC   Exposure Info: 300ms/Frame   Gain: 3300   Offset: 180   RA = 11h 19m 45.3s   DEC = +13deg 16' 38.0"   Size = 56.7 x 37.8 arcsec   Orientation: 200deg E of N   Pixel scale = 0.577"/arcsec (pad)   F1.1-100kms</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"</b>DEC: <b>13° 32' 15"</b>            Frame 02            RA: <b>11hr 19' 57"</b>DEC: <b>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>01:07 – 06:04</b>            Transit: <b>04:01   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer Composite!</b></p> 


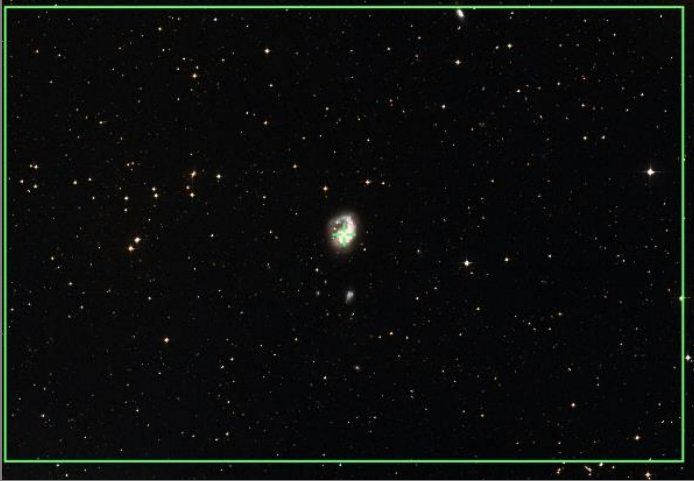

# Prospective Imaging Objects – January

<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>01:07 – 06:04</b>            Transit: <b>04:01   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: left; font-size: small;">NGC-3628 Edge-On Galaxy</p> <p style="text-align: right; font-size: x-small;">James Yoder 2015.04.19</p>
<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></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="#">M-65</a>/NGC-3623, M-66/NGC-3627</p> <p>Imaging Window: <b>11:54 – 06:04</b>            Transit: <b>04:00   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: left; font-size: small;">M-065, M066 Spiral Galaxies</p> <p style="text-align: right; font-size: x-small;">James Yoder 2015.05.19</p>
<p><b>Arp-214</b> (NGC-3718, NGC-3729)            Config:  C11HD ZWO6200MC             Type: <b>Galaxy Pair</b></p> <p>Constellation: <b>Ursa Major</b>            Coordinates:  <b>11h 33' 09"</b>  <b>53° 05' 02"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda)            Catalog Objects: <a href="#">NGC-3718</a></p> <p>Imaging Window: <b>10:46 – 06:04</b>            Transit: <b>04:14   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: x-small;">NGC-3718, NGC-3729            Constellation: Ursa Major            RA = 11h 33m 09.13s DEC = 53deg 05' 02.00" Size = 45 x 30.4 arcmin   Pixel scale = 0.446 arcsec/pixel   FL-C2.720mm</p> <p style="font-size: x-small; text-align: right;">James Yoder - 2020-02-19            Location: Chandler, AZ            Config: C-11 HD (Astronomik) CLS-CCD (QHY 128c)            Exposure info: 1048img/5min (Gain: 308e /0.9Sec. 180)</p>




# Prospective Imaging Objects – January

<p><b>Copeland's Septet</b> (NGC-3746, 3748, 3750, 3751, 3753, 3754)            Config:  C11HD ZWO6200MC             Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Leo</b>            Coordinates:  <b>11h 33' 09"</b>  <b>53° 05' 02"</b>            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>11:53 – 06:04</b>            Transit: <b>04:19   79°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<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>12:04 – 06:04</b>            Transit: <b>04:26   77°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p><small>Galaxy Cluster Abell-1367 (ARCO-1367)            Coordinates: 11h 44m 40s, 19° 56' 32"</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>01:13 – 06:04</b>            Transit: <b>04:28   53°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – January

<p><b>M-109</b>(<a href="#">NGC-3992</a>) 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>11:10 – 06:04</b> Transit: <b>04:39   70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-4027</b>(<a href="#">PGC-37773</a>) 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>*02:45 – 06:04</b> Transit: <b>04:40   37°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Antennae Galaxies</b> (<a href="#">Arp-244</a>) 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>*02:39 – 06:04</b> Transit: <b>04:43   38°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – January

<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>01:57 – 06:04</b> Transit: <b>04:55   72°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<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>01:46 – 06:04</b> Transit: <b>04:57   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>01:19 – 06:04</b> Transit: <b>04:58   86°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – January

<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>02:03 – 06:04</b> Transit: <b>05:00   71°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<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>01:14 – 06:04</b> Transit: <b>05:00   76°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="text-align: center; color: green;">FOV 3.81 x 2.54° · RA 12hr 13' 18", DEC 46° 41' 37"</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>01:14 – 06:04</b> Transit: <b>05:00   76°</b></p>	<p style="text-align: center;"><b>C-11 HD: <span style="background-color: yellow;">Focal Reducer</span></b></p>  <p style="font-size: small;">M-106 galaxy group Constellation: Canes Venatici</p> <p style="font-size: x-small; text-align: right;">2024-11-06 2024-11-06 Config:  C11 Starizona LP Corrector   Axiomtek 1.1K   ZWO6200MC   Exposure Info: 13.78sec/Frame   Gain: 3200   Offset: 100</p>

# Prospective Imaging Objects – January

<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>02:39 – 06:04</b> Transit: <b>05:03   61°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<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>01:20 – 06:04</b> Transit: <b>05:03   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>02:04 – 06:04</b> Transit: <b>05:04   72°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – January




<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>03:04 – 06:04</b>            Transit: <b>05:05   38°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p><small>Planetary Nebula NGC-6572            Constellation: Corvus            Coordinates: RA=15h 24m 31.3s DEC=-18d 47' 03.1" Star = 27x 18 across Orientation 0deg E of N. Field scale = 0.27 arcsec/pixel F1-098mm            James Yoder   Dallas   2023-09-02, 03:04   Lagoon, Chauche, AZ            Config: C11 HD Primary Focus Secondary: ZWO6200MC            Exposure Info: 47 Images/Frame   Gain: 100   Offset: 50</small></p>
<p><b>Markarian Chain(M-84 Et. El.)</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxy cluster</b></p> <p>Constellation: <b>Virgo</b>            Coordinates:  <b>12h 26' 29"</b>  <b>12° 52' 22"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)            Catalog Objects: <a href="#">M-84</a>/NGC-4374, NGC-4388, 4425, 4402, M-86/NGC4406, 4438, 4435, and more            Imaging Window: <b>02:14 – 06:04</b>            Transit: <b>05:06   69°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p>  <p><small>Markarian's Chain (of galaxies)            C11 HyperStar, Dobson, 8mm            James Yoder            2018.05.15</small></p>
<p><b>Markarian Chain 2</b>            Config: C11-HD   HS   ZWO6200MC</p> <p>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>02:14 – 06:04</b>            Transit: <b>05:06   69°</b></p>	<p><b>C-11 HD: HyperStar v4</b></p>  <p><small>Markarian's Chain            Constellation: Virgo            James Yoder   2018.05.03            Location: Chandler, AZ            Config: C11 HyperStar, Atmosphere, CLS-CCD, QHY128C            Exposure Info: 100 Images/Frame   Gain: 1500   Offset: 100</small></p>






# Prospective Imaging Objects – January

<p><b>Markarian's Chain</b> (M-84)</p> <p>Config:  C11- HD FR ZWO6200MC </p> <p>Type: <b>Galaxy cluster</b></p> <p>Constellation: <b>Virgo</b></p> <p>Coordinates: <b>12h 26' 29"</b> <b>12° 52' 22"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)</p> <p>Catalog Objects: <a href="#">M-84</a>/NGC-4374, NGC-4388, 4425, 4402, M-86/NGC4406, 4438, 4435, and more</p> <p>Imaging Window: <b>02:14 – 06:04</b></p> <p>Transit: <b>05:06   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Emission Line Galaxy</b> (NGC-4449/UGC-7592)</p> <p>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Irregular Galaxy</b></p> <p>Constellation: <b>Canes Venatici</b></p> <p>Coordinates: <b>12h 28' 11"</b> <b>44° 05' 42"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth)</p> <p>Catalog Objects: <a href="#">NGC-4449</a>/UGC-7592</p> <p>Imaging Window: <b>01:25 – 06:04</b></p> <p>Transit: <b>05:09   79°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC-4449 (Caldwell 21) Constellation: Canes Venatici RA = 12h 28m 12.3s, DEC = +44deg 05' 40.7", Size = 25.6 x 17.3, ascension: Mag 8.0/5.1, flux scale = 0.277, average gain (FL=500nm): Date: 2024-11-06 01:25:25, RA: 12:28:12.3, DEC: 44:05:40.7, Filter: C-11 HD Multi-Sharp, F/6.0/2000, Exposure: 180, Gain: 300, Offset: 50</p>
<p><b>M-49</b>(NGC-4472)</p> <p>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Elliptical Galaxy</b></p> <p>Constellation: <b>Virgo</b></p> <p>Coordinates: <b>12h 29' 58"</b> <b>07° 59' 51"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)</p> <p>Catalog Objects: <a href="#">M-49</a>/NGC-4472</p> <p>Imaging Window: <b>02:34 – 06:04</b></p> <p>Transit: <b>05:11   65°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – January

<p><b>Virgo A</b> (M-87) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Elliptical Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 30' 49"</b> <b>12° 23' 26"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-87</a>/NGC-4486 Imaging Window: <b>02:21 – 06:04</b> Transit: <b>05:12   69°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<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 Imaging Window: <b>01:29 – 06:04</b> Transit: <b>05:11   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 35.6s DEC = +41deg 38' 34.1" Size = 36.5 x 28.3 arcmin Orientation: -0.75deg E of CN   Pixel scale = 0.446 arcsec/pixel   F5 - 2750nm James Yoder   Date(s) 2020-02-02 - 2020-02-07   Location: Chandler, AZ Config:  C-11 HD Starline SynScope   OPT120C Exposure Info: 1760nm@5min   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>*12:12 – 06:04</b> Transit: <b>05:14   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 14.0s DEC = 82deg 33' 22.1" Size = 21.1 x 18.8 arcmin Orientation: 9deg S of N   Pixel scale = 0.21 arcsec/pixel   F5 - 2750nm James Yoder   Date(s) 2020-02-04-05, 01-24-2020   Location: Chandler, AZ Config:  C-11 HD Starline SynScope   OPT120C Exposure Info: 1760nm@5min   Gain: 100   Offset: 50</p>


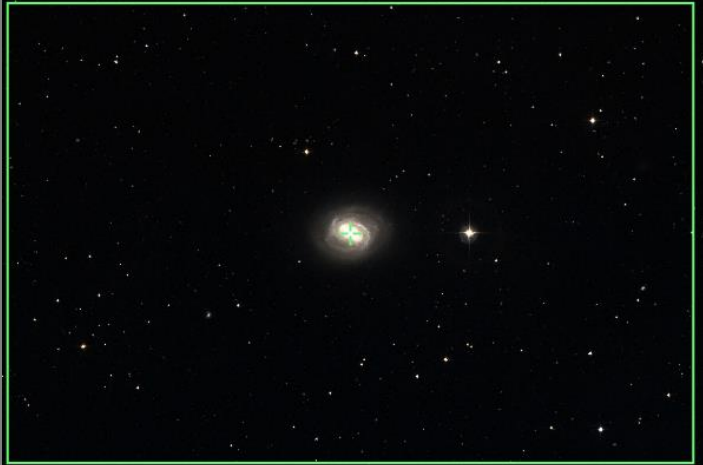

# Prospective Imaging Objects – January

<p><b>M-91</b>(NGC-4548) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 36' 04"</b> <b>14° 23' 37"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-91</a>/NGC4548, NGC-4571 Imaging Window: <b>02:20 – 06:04</b> Transit: <b>05:16   71°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-89</b>(NGC-4552) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Elliptical Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 35' 43"</b> <b>12° 24' 24"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-89</a>/NGC4552, NGC-4551, NGC-4550, IC-3574, IC-3586 Imaging Window: <b>02:25 – 06:04</b> Transit: <b>05:16   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>01:51 – 06:04</b> Transit: <b>05:17   85°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – January

<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>02:30 – 06:04</b> Transit: <b>05:17</b>   <b>68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Needle Galaxy</b> (NGC-4565) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Edge-on Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 36' 02"</b> <b>25° 56' 51"</b></p> <p>Close Star: <b>SAO-44752</b> (Alkaid) Catalog Objects: <a href="#">NGC-4565</a>, NGC-4562 Imaging Window: <b>01:55 – 06:04</b> Transit: <b>05:17</b>   <b>83°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>M-90</b> (NGC-4569) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 37' 11"</b> <b>13° 09' 19"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-90</a>/NGC-4569 IC-3583, NGC-4584 Imaging Window: <b>02:25 – 06:04</b> Transit: <b>05:18</b>   <b>70°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 




# Prospective Imaging Objects – January

<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>02:29 – 06:04</b>            Transit: <b>05:18   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="text-align: center;">FOV 3.81 x 2.54° · RA 12hr 37' 35", DEC 12° 18' 56"</p>
<p><b>M-58</b> (NGC-4579)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Virgo</b>            Coordinates:  <b>12h 37' 44"</b>  <b>11° 49' 06"</b></p> <p>close Star: <b>SAO-100944</b> (Arcturus)            Catalog Objects: <a href="#">M-58</a>/NGC-4579            Imaging Window: <b>02:29 – 06:04</b>            Transit: <b>05:18   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>*03:36 – 06:04</b>            Transit: <b>05:20   30°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;">FOV 0.73 x 0.49° · Rayleigh limit 0.49"</p>

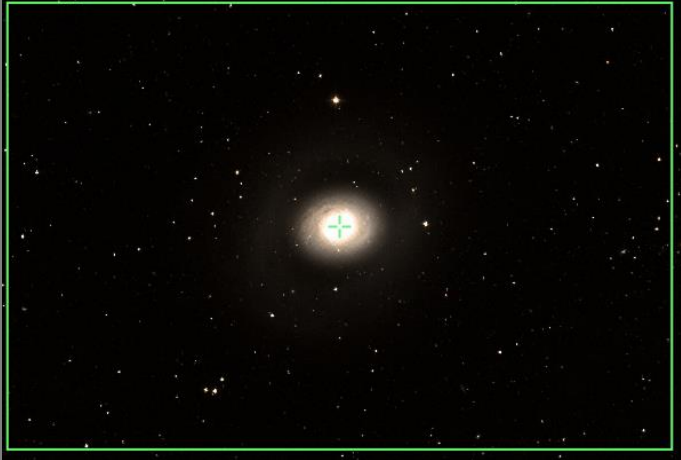

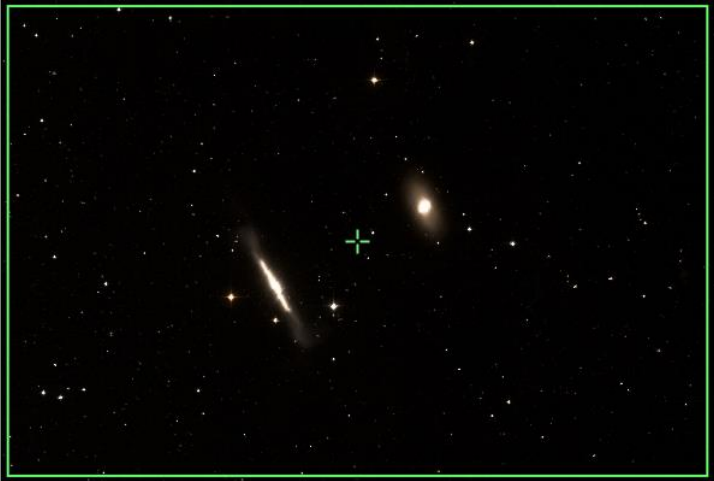
# Prospective Imaging Objects – January

<p><b>Sombrero Galaxy (M-104)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Edge-on Spiral Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 39' 44"</b> <b>-11° 37' 52"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus) Catalog Objects: <a href="#">M-104</a>/NGC-4594 Imaging Window: *<b>02:39 – 06:04</b> Transit: <b>05:34   45°</b></p>	<p><b>C-11 HD: Primary Focus</b></p>  <p>M104- Sombrero Galaxy <span style="float: right;">James Yoder 2015.01.18</span></p>
<p><b>Whale and Hockey Stick (NGC-4631, NGC-4656)</b> Config:  C11- HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Galaxies</b></p> <p>Constellation: <b>Canes Venatici</b> Coordinates: <b>12h 42' 50"</b> <b>32° 20' 54"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">NGC-4631</a>, NGC-4656 Imaging Window: <b>01:51 – 06:04</b> Transit: <b>05:23   89°</b></p>	<p><b>C-11 HD: Focal Reducer</b></p>  <p>Whale and Hockey Stick Galaxies (NGC4631, NGC4656) Constellation: Canes Venatici <span style="float: right;">James Yoder 2019.04.14 Location: Maricopa grounds, Tallahassee, AZ Config:  C11  Starizona LF Corrector   Boulder Skyglow Filter (OHV D16c) Exposure Info: 31.80sec/Frame   Gain: 3200   Offset: 100</span></p>
<p><b>M-59, M-60 group</b> Config:  C11- HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 42' 42"</b> <b>11° 40' 33"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">M-59</a>/NGC-4621, M-60/NGC-4649, NGC-4656, 4647, 4638, 4607, 4606 Imaging Window: <b>02:34 – 06:04</b> Transit: <b>05:23   68°</b></p>	<p><b>C-11 HD: Focal Reducer</b></p>  <p>Virgo Cluster of Galaxies Constellation: Virgo the virgin <span style="float: right;">James Yoder   Dates: 2021.04.30 - 2020.05.16   Location: Chandler, AZ Config: C11-HD   0.7 Reducer   Filter: Baader Skyglow, RGB   Camera: ZWO ASI-4200 Exposure Info: [L:846ms/6min, G:117ms/6min, R:117ms/6min, B:164ms/6min]   Total = 12hrs 18min 50sec   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</span></p>

# Prospective Imaging Objects – January

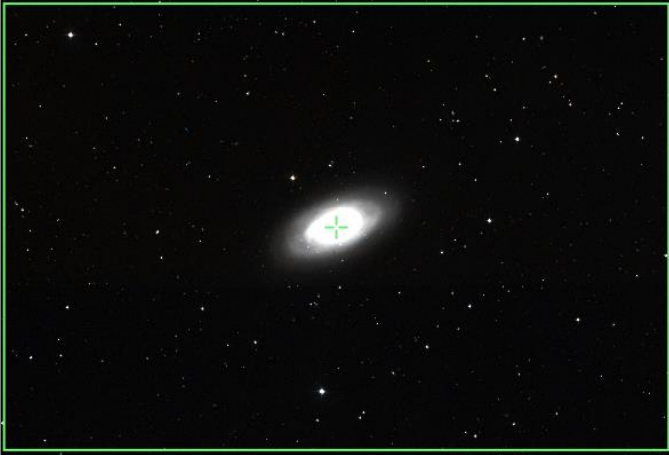
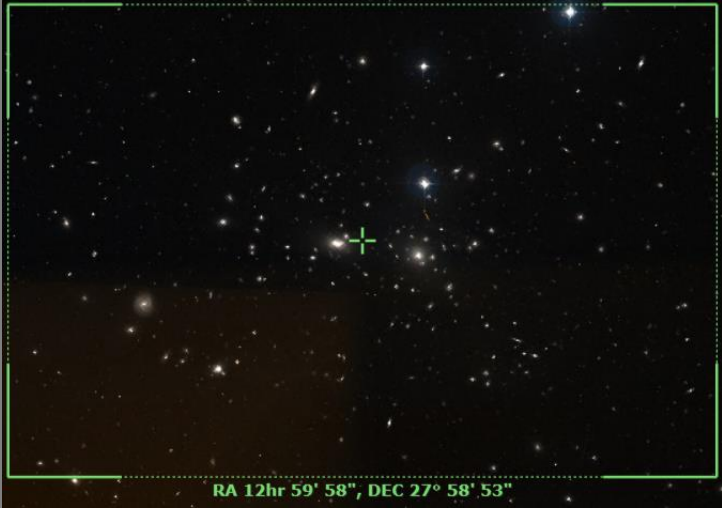

<p><b>TheMice</b> (NGC-4676 A &amp; B) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Interacting Galaxies</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 46' 07"</b> <b>30° 43' 43"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">NGC-4676A &amp; B</a> Imaging Window: <b>01:57 – 06:04</b> Transit: <b>05:27   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-4725</b> (PGC-43451) Config:  C11- HD <b>FR</b> 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>02:10 – 06:04</b> Transit: <b>05:31   82°</b></p>	<p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b></b></p>  <p style="font-size: small;">Galaxy Cluster NGC-4747, NGC-4725, NGC4712 James Yoder   Date(s) 2021.01.02, 2021.01.03   Location: Chandler, AZ Config:  C11-HD   0.7 Reducer   Filter: Baader Skyglow   Camera: QHY126C   Constellation: Coma Berenices   RA = 12h 50m 40.89s   DEC = +25deg 36' 33.3"   Size = 44.39 x 29.62 arcmin   Orientation: 0deg E of N   Pixel scale = 0.630 arcsec/pixel   FL=1953mm   Exposure Info: [66frames@3sec]   Gain: 7200   OffSet: 160</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>02:10 – 06:04</b> Transit: <b>05:31   82°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – January




<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>01:50 – 06:04</b> Transit: <b>05:32   82°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>NGC-4731</b> (PGC-43507) Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Virgo</b> Coordinates: <b>12h 51' 01"</b> <b>-06° 21' 49"</b></p> <p>Close Star: <b>SAO-157923</b> (Spica) Catalog Objects: <a href="#">NGC-4731</a> Imaging Window: <b>*02:54 – 06:04</b> Transit: <b>05:32   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>02:46 – 06:04</b> Transit: <b>05:34   68°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 



# Prospective Imaging Objects – January

<p><b>Black Eye Galaxy (M-64)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>12h 56' 44"</b> <b>21° 40' 59"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">M-64</a>/NGC-4826 Imaging Window: <b>02:24 – 06:04</b> Transit: <b>05:37   78°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 
<p><b>Coma Galaxy Cluster (Abell-1656)</b> Config:  C11-HD <b>FR</b> 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>02:15 – 06:04</b> Transit: <b>05:40   84°</b></p>	<p><b>C-11 HD: Focal Reducer</b></p> 
<p><b>Coma Galaxy Cluster (Abell-1656)</b> Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Coma Berenices</b> Coordinates: <b>13h 00' 06"</b> <b>28° 00' 31"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola) Catalog Objects: <a href="#">Abell-1656</a> Imaging Window: <b>02:15 – 06:04</b> Transit: <b>05:40   84°</b></p>	<p><b>C-11 HD: Primary Focus</b></p> 

# Prospective Imaging Objects – January

<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>02:48 – 06:04</b>            Transit: <b>05:54   75°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">             Globular Cluster Messier 53              Constellation: Coma Berenices                RA=13h 12m 52.9s, DEC=-18deg 09' 27.9"   Size=27.7 x 27.8 arcmin   Orientation: 0 Mag E of N   Print scale=0.432 arcmin/pixel   FL=2720mm                James Yoder   Data: 2023/04/21 - 2023/04/21   Location: Chandler, AZ              Config: C-11 HD Raptor Single Fiber   QHY128L              Exposure: 300sec/2000   Gain: 1200   Offset: 100           </p>
<p><b>NGC-5033</b> (PGC-45948)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Canes Venatici</b>            Coordinates:  <b>13h 13' 28"</b>  <b>36° 35' 36"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth)            Catalog Objects: <a href="#">NGC-5033</a>/PGC-45948</p> <p>Imaging Window: <b>02:17 – 06:04</b>            Transit: <b>05:54   87°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p> 
<p><b>Sunflower Galaxy</b> (M-63)            Config:  C11HD ZWO6200MC </p> <p>Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Canes Venatici</b>            Coordinates:  <b>13h 15' 15"</b>  <b>42° 04' 41"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth)            Catalog Objects: <a href="#">M-63</a>/NGC-5055,            UGC-8313</p> <p>Imaging Window: <b>02:14 – 06:04</b>            Transit: <b>05:56   81°</b></p>	<p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">             M-63              Sunflower Galaxy              James Yoder              2018.04.16           </p>

# Prospective Imaging Objects – January

## NGC-5053

Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

Constellation: **Coma Berenices**

Coordinates:

**13h 16' 27"**

**17° 41' 55"**

Close Star: **SAO-99809** (Denebola)

Catalog Objects: [NGC-5053](#)

Imaging Window: **02:53 – 06:04**

Transit: **05:57 | 74°**

## C-11 HD: Primary Focus



Globular Cluster NGC-5053  
Constellation: Coma Berenices  
R.A. = 13h 16m 27.2s | DEC = 17deg 41' 55" | Size = 37.7 x 27.0 arcmin | Orientation: 0 Mag E of N | Pixel scale = 0.452 arcsec/pixel | FL=2750mm |  
James Taylor | Date(s): 2022/01/21 | 2022/04/21 | Location: Chandler, AZ |  
Config: |C-11 HD|Ranger|Nipkow Filter|QHY135M |  
Exposure info: 100frames@30sec | Gain: 3200 | QHYStar 130

## Whirlpool Galaxy (M-51)

Config: |C11HD|ZWO6200MC|

Type: **Interacting Galaxies**

Constellation: **Canes Venatici**

Coordinates:

**13h 29' 53"**

**47° 11' 44"**

Close Star: **SAO-28553** (Alioth)

Catalog Objects: [M-51](#)/NGC-5194, NGC-5195

Imaging Window: **02:25 – 06:04**

Transit: **06:10 | 76°**

## C-11 HD: Primary Focus



Whirlpool Galaxy M-51 (NGC-5194)  
Constellation: Canes Venatici  
R.A. = 13h 29m 53.1s | DEC = 47deg 11' 44" | Size = 17.5 x 15.0 arcmin | Orientation: 0 Mag E of N | Pixel scale = 0.452 arcsec/pixel | FL=2750mm |  
James Taylor | Date(s): 2022/01/21 | 2022/04/21 | Location: Chandler, AZ |  
Config: |C-11 HD|Ranger|Nipkow Filter|QHY135M |  
Exposure info: 100frames@30sec | Gain: 3200 | QHYStar 130

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Page

# Prospective Imaging Objects – January

## Imaging Summary January 15, 2025

Astronomical Dusk = 07:10

Astronomical Dawn = 06:04

### HyperStar: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Nebula	Nebula	IC-1848	07:10 – 11:20	07:34	02	Comp4! Cassiopeia: Heart & Soul Nebula
HyperStar	Nebula	Nebula	IC-1805	07:10 – 11:00	07:15	03	Cassiopeia: Heart Nebula
HyperStar	Nebula	Nebula	IC-1848	07:10 – 11:20	07:34	05	Cassiopeia: Soul Nebula
HyperStar	Nebula	Nebula	NGC-1499	07:10 – 12:29	08:45	08	Perseus: California Nebula
HyperStar	Nebula	Nebula	IC-405	07:10 – 01:41	09:59	12	Auriga: Flaming Star Nebula
HyperStar	Nebula	Nebula	Orion Cmpx	08:43 – 11:57	10:17	16	Comp6! Orion: Orion Complex of objects
HyperStar	Nebula	Nebula	M-42	08:43 – 11:57	10:17	17	Orion: Orion and Running Man Nebula
HyperStar	Nebula	Nebula	M-42	08:43 – 11:57	10:17	17	Orion: Orion and Running Man Nebula
HyperStar	Nebula	Nebula	SH 2-240	07:10 – 01:55	10:23	19	Rot90°, Comp2! Taurus: Simeis 147
HyperStar	Nebula	Nebula	SH 2-240	07:10 – 01:55	10:23	19	Taurus: Simeis 147
HyperStar	Nebula	Nebula	NGC-2024, B-33	08:28 – 12:25	10:24	20	Orion: Horsehead and Flame Nebula
HyperStar	Nebula	Nebula	IC-2162, SH2-261	07:50 – 01:57	10:51	26	Rot90° Orion: Two Nebulas
HyperStar	Nebula	Nebula	IC-443	07:43 – 02:21	10:59	29	Gemini: Jellyfish Nebula
HyperStar	Nebula	Nebula	NGC-2237	08:45 – 01:45	11:12	30	Monoceros: Rosett Nebula
HyperStar	Nebula	Nebula	IC-2169	08:28 – 02:04	11:13	31	Monoceros: DN & Nebulas
HyperStar	Nebula	Nebula	IC-2177	*09:26-02:10	11:46	35	Rot90° Monoceros: Seagull Nebula

# Prospective Imaging Objects – January

## Imaging Summary January 15, 2025

Astronomical Dusk = 07:10

Astronomical Dawn = 06:04

### HyperStar: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Broad Spectrum	OC, BN	M-45	07:10 – 11:54	08:29	07	Taurus: Pleiades
HyperStar	Broad Spectrum	OC	Mel-25	07:10 – 12:21	09:12	10	Taurus: Hyades
HyperStar	Broad Spectrum	DN	IC-2118	*07:10-12:19	09:44	10	Eridanus: Witch Head Nebula
HyperStar	Broad Spectrum	DN	NGC-1788	08:01 – 11:42	09:49	11	Orion: Foxface Nebula
HyperStar	Broad Spectrum	DN, N	LDN-1622 R1	08:22 – 12:56	10:36	23	Comp2! Orion: DN Band
HyperStar	Broad Spectrum	DN, N	LDN-1622 R2	08:22 – 12:56	10:36	24	Orion: DN Band
HyperStar	Broad Spectrum	DN, N	LDN-1622 R3	08:22 – 12:56	10:36	24	Orion: DN Band
HyperStar	Broad Spectrum	OC	NGC-2632	10:12 – 04:38	01:22	41	Cancer: Beehive Cluster
HyperStar	Broad Spectrum	Galaxies	M-81 & M-82	11:27 – 05:54	02:37	42	Ursa Major: Bode's Cigar
HyperStar	Broad Spectrum	Galaxies	2574 Group	11:52 – 06:04	03:09	46	Leo: Galaxy Group 2574
HyperStar	Broad Spectrum	Galaxies	Leo Group	12:39 – 06:04	03:28	46	Leo: Leo Galaxy Group
HyperStar	Broad Spectrum	G, PN	M-108 & M-97	12:07 – 06:04	03:52	48	Ursa Major: Galaxy & Planetary Nebula
HyperStar	Broad Spectrum	Galaxies	Group 106	01:14 – 06:04	05:00	54	Canes Venatici: Galaxy Group with M-106
HyperStar	Broad Spectrum	Galaxies	Group 84	02:14 – 06:04	05:06	56	Virgo: Markarian Chain
HyperStar	Broad Spectrum	Galaxies	Group 84-2	02:14 – 06:04	05:06	56	Virgo: Markarian Chain
HyperStar	Broad Spectrum	Galaxies	Group 58	02:29 – 06:04	05:18	61	Virgo: Galaxy Group associated with M-58

# Prospective Imaging Objects – January

## Imaging Summary January 15, 2025

Astronomical Dusk = 07:10

Astronomical Dawn = 06:04

### Focal Reducer: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Nebula	Nebula	IC-1795	07:10 – 10:52	07:08	02	Cassiopeia: Fish Head Nebula
Focal Reducer	Nebula	Nebula	IC-1805	07:10 – 11:00	07:15	03	Cassiopeia: Heart Nebula
Focal Reducer	Nebula	Nebula	IC-405	07:10 – 01:41	09:59	12	Auriga: Flaming Star Nebula
Focal Reducer	Nebula	Nebula	IC-410	07:10 – 01:44	10:04	13	Auriga: Tadpoles
Focal Reducer	Nebula	Nebula	M-77, NGC1055	07:10 – 01:52	10:10	14	Comp2! Auriga: The Spider and the Fly
Focal Reducer	Nebula	Nebula	NGC-2024	08:28 – 12:25	10:24	20	Orion: Flame Nebula
Focal Reducer	Nebula	Nebula	NGC-2170	09:24 – 12:22	10:50	26	Monoceros: Angel Nebula
Focal Reducer	Nebula	Nebula	SH 2-261	07:50 – 01:57	10:51	27	Orion: Lower's Nebula
Focal Reducer	Nebula	Nebula	NGC-2174	07:39 – 02:09	10:51	28	Orion: Monkey Head Nebula
Focal Reducer	Nebula	Nebula	IC-443	07:43 – 02:21	10:59	29	Gemini: Jellyfish Nebula
Focal Reducer	Nebula	Nebula	NGC-2237	08:45 – 01:45	11:12	31	Monoceros: Rosett Nebula Core
Focal Reducer	Nebula	Nebula	NGC-2264	08:39 – 02:13	11:23	33	Comp2! Monoceros: Xmas Tree and Cone Nebula
Focal Reducer	Nebula	Nebula	NGC-2264	08:39 – 02:13	11:23	33	Rot! Monoceros: Xmas Tree and Cone Nebula
Focal Reducer	Nebula	Nebula	NGC-2264	08:39 – 02:13	11:23	34	Monoceros: Xmas Tree and Cone Nebula

# Prospective Imaging Objects – January

## Imaging Summary January 15, 2025

Astronomical Dusk = 07:10

Astronomical Dawn = 06:04

### Focal Reducer: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Broad Spectrum	Galaxies	M-77	07:10 – 09:36	07:25	04	Cetus: Galaxies M-77 & NGC-1055
Focal Reducer	Broad Spectrum	DN, BN	NGC-1788	08:01 – 11:42	09:49	11	Orion: Foxface Nebula
Focal Reducer	Broad Spectrum	DN, BN	M-78	08:23 – 12:40	10:29	22	Comp2! Orion: Dark Nebula
Focal Reducer	Broad Spectrum	DN, BN	M-78	08:23 – 12:40	10:29	22	Orion: Dark Nebula
Focal Reducer	Broad Spectrum	DN	LDN-1622	08:22 – 12:56	10:36	25	Comp2! Rot90° Orion: Dark Nebula
Focal Reducer	Broad Spectrum	DN	LDN-1622	08:22 – 12:56	10:36	25	Orion: Dark Nebula
Focal Reducer	Broad Spectrum	OC	M-35, NGC-2158	07:31 – 02:17	10:51	27	Gemini: Open Cluster Pair
Focal Reducer	Broad Spectrum	BN	IC-2169	08:28 – 02:04	11:13	32	Monoceros: Reflection Nebula
Focal Reducer	Broad Spectrum	Galaxies	UGC-3697	08:58 – 02:54	11:53	36	Camelopardalis: Integral Sign Galaxy
Focal Reducer	Broad Spectrum	Galaxies	M-81 & M-82	11:27 – 05:54	02:37	42	Ursa Major: Bode's Cigar
Focal Reducer	Broad Spectrum	Galaxies	M-95 & M-96	12:36 – 06:04	03:25	47	Leo: Galaxy Pair M-95, M-96
Focal Reducer	Broad Spectrum	Galaxies	NGC-3628 et. El.	01:07 – 06:04	04:01	49	Comp2! Leo: Lio Trio of Galaxies
Focal Reducer	Broad Spectrum	Galaxies	M-106	01:14 – 06:04	05:00	54	Canes Venatici: Galaxy Pair
Focal Reducer	Broad Spectrum	Galaxies	M-84 et. El.	02:14 – 06:04	05:06	57	Virgo: Markarian's Chain
Focal Reducer	Broad Spectrum	Galaxies	M-104	*02:39-06:04	05:23	62	Canes Venatici: Whale and Hockey Stick
Focal Reducer	Broad Spectrum	Galaxies	M-59 Group	02:34 – 06:04	05:23	62	Virgo: Galaxy Group M-59 & M-60
Focal Reducer	Broad Spectrum	Galaxies	NGC-4725 et. El.	02:10 – 06:04	05:31	63	Coma Berenices: Galaxy Group NGC-4725
Focal Reducer	Broad Spectrum	Galaxies	Abell-1656	02:15 – 06:04	05:40	65	Coma Berenices: Coma Galaxy Cluster



# Prospective Imaging Objects – January

## Imaging Summary January 15, 2025

Astronomical Dusk = 07:10

Astronomical Dawn = 06:04

### Primary Focus: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	Nebula	IC-1805	07:10 – 11:00	07:15	03	Cassiopeia: Heart Nebula Core
Primary Focus	Nebula	Nebula	IC-1848	07:10 – 11:20	07:34	05	Cassiopeia: Soul Nebula Core
Primary Focus	Nebula	Nebula	NGC-1333	07:10 – 11:49	08:11	06	Perseus: Bright Nebula
Primary Focus	Nebula	Nebula	NGC-1360	*07:10-10:12	08:15	06	Fornax: Egg shaped Nebula
Primary Focus	Nebula	Nebula	IC-348	07:10 – 12:05	08:27	07	Perseus: Bright Nebula
Primary Focus	Nebula	Nebula	M-45	07:10 – 11:54	08:29	08	Taurus: Pleiades
Primary Focus	Nebula	Nebula	NGC-1501	07:10 – 12:35	08:49	08	Camelopardalis: Oyster Nebula
Primary Focus	Nebula	Nebula	NGC-1514	07:10 – 12:28	08:51	09	Taurus: Crystal Ball Nebula
Primary Focus	Nebula	Nebula	NGC-1535	*07:10-11:06	08:56	09	Eridanus: Cleopatra's Eye
Primary Focus	Nebula	Nebula	NGC-1555	07:10 – 12:20	09:04	09	Taurus: Hind's Variable Nebula
Primary Focus	Nebula	Nebula	NGC-1579	07:10 – 12:55	09:12	10	Perseus: Trifid of the North
Primary Focus	Nebula	Nebula	IC-2118	*07:10-12:19	09:44	11	Eridanus: Witch Head Nebula
Primary Focus	Nebula	Nebula	NGC-1788	08:01 – 11:42	09:49	12	Orion: Foxface Nebula
Primary Focus	Nebula	Nebula	IC-405	07:10 – 01:41	09:59	13	Auriga: Flaming Star Nebula
Primary Focus	Nebula	Nebula	IC-410	07:10 – 01:44	10:04	13	Auriga: Tadpoles
Primary Focus	Nebula	Nebula	IC-418	*08:05-12:19	10:09	14	Lepus: Spirograph Nebula
Primary Focus	Nebula	Nebula	IC-417	07:10 – 01:52	10:10	15	Auriga: The Spider
Primary Focus	Nebula	Nebula	NGC-1931	07:10 – 01:55	10:13	15	Auriga: The Fly
Primary Focus	Nebula	Nebula	M-1	07:10 – 01:37	10:16	16	Taurus: Crab Nebula
Primary Focus	Nebula	Nebula	M-42	08:43 – 11:57	10:17	17	Orion: The Orion Nebula
Primary Focus	Nebula	Nebula	NGC-1977	08:39 – 12:01	10:17	18	Orion: Running Man Nebula (C-6)
Primary Focus	Nebula	Nebula	NGC-1977	08:39 – 12:01	10:17	18	Orion: Running Man Nebula
Primary Focus	Nebula	Nebula	NGC-2024	08:28 – 12:25	10:24	20	Orion: Flame Nebula
Primary Focus	Nebula	Nebula	B-33	08:30 – 12:21	10:23	21	Orion: Horsehead Nebula

# Prospective Imaging Objects – January

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	Nebula	NGC-2022	07:42 – 01:11	10:24	21	Orion: Planetary Nebula
Primary Focus	Nebula	Nebula	NGC-2170	09:24 – 12:22	10:50	26	Monoceros: Angle Nebula
Primary Focus	Nebula	Nebula	SH 2-261	07:50 – 01:57	10:51	27	Orion: Lower's Nebula
Primary Focus	Nebula	Nebula	NGC-2174	07:39 – 02:09	10:51	28	Orion: Monkey Head Nebula
Primary Focus	Nebula	Nebula	IC-2162	07:49 – 02:07	10:55	28	Orion: Nebula
Primary Focus	Nebula	Nebula	IC-443	07:43 – 02:21	10:59	29	Gemini: Jellyfish Nebula
Primary Focus	Nebula	Nebula	IC-2165	*08:29-01:09	11:03	30	Canis Major: Small Planetary Nebula
Primary Focus	Nebula	Nebula	SH 2-249	07:47 – 02:27	11:04	30	Gemini: Nebula
Primary Focus	Nebula	Nebula	NGC-2237	08:45 – 01:45	11:12	31	Monoceros: Rosette Nebula Core
Primary Focus	Nebula	Nebula	NGC-2261	08:41 – 02:07	11:21	32	Monoceros: Hubble's Variable Nebula
Primary Focus	Nebula	Nebula	NGC-2264	08:39 – 02:13	11:23	33	Monoceros: Xmas Tree Cluster
Primary Focus	Nebula	Nebula	NGC-2264	08:39 – 02:13	11:23	34	Monoceros: Cone Nebula
Primary Focus	Nebula	Nebula	IC-2177	*09:26-02:10	11:46	35	Monoceros: Seagull Nebula head
Primary Focus	Nebula	Nebula	NGC-2346	*09:18-02:29	11:51	36	Monoceros: Hourglass Nebula
Primary Focus	Nebula	Nebula	NGC-2359	*09:57-02:02	12:00	37	Canis Major: Thor's Helmet
Primary Focus	Nebula	Nebula	NGC-2371	08:39 – 03:42	12:07	37	Gemini: Candy Wrapper Nebula
Primary Focus	Nebula	Nebula	Abell-21	09:17 – 03:11	12:11	37	Gemini: Medusa Nebula
Primary Focus	Nebula	Nebula	NGC-2392	08:58 – 03:30	12:11	38	Gemini: Eskimo Nebula
Primary Focus	Nebula	Nebula	M-46	*10:35-02:18	12:23	39	Puppis: Open Cluster and Planetary
Primary Focus	Nebula	Nebula	NGC-2440	*10:20-02:33	12:23	39	Puppis: Bow-Tie Nebula
Primary Focus	Nebula	PN	NGC-2610	11:36 – 03:00	01:15	40	Hydra: NGC-2610 Small PN
Primary Focus	Nebula	PN	NGC-3242	*01:01-05:14	03:06	45	Hydra: Ghost of Jupiter
Primary Focus	Nebula	PN	M-97	12:10 – 06:04	03:56	48	Ursa Major: Owl Nebula
Primary Focus	Nebula	PN	NGC-4361	*03:04-06:04	05:05	56	Corvus: Lawn Sprinkler Nebula
Primary Focus	Nebula	PN	IC-3568	*12:12-06:04	05:14	58	Camelopardalis: Lemon Slice Nebula

## Imaging Summary January 15, 2025

Astronomical Dusk = 07:10

Astronomical Dawn = 06:04

# Prospective Imaging Objects – January

## Primary Focus: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	NGC-925	07:10 – 10:50	07:10	02	Triangulum: Face on Galaxy PGC-9332
Primary Focus	Broad Spectrum	Galaxy	NGC-1055	07:10 – 09:37	07:24	04	Cetus: Edge On galaxy
Primary Focus	Broad Spectrum	OC	M-34	07:10 – 11:14	07:24	04	Perseus: Open Cluster NGC-1039
Primary Focus	Broad Spectrum	Galaxy	M-77	07:10 – 09:36	07:25	05	Cetus: Galaxy NGC-1068
Primary Focus	Broad Spectrum	Galaxies	Abell-426	07:10 – 11:51	08:02	06	Perseus: Perseus Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxy	IC-342	07:10 – 11:54	08:29	07	Camelopardalis: Large Face-On
Primary Focus	Broad Spectrum	Globular	M-79	*09:03-11:17	10:06	14	Lepus: Med Globular
Primary Focus	Broad Spectrum	OC	M-38	07:10 - 01:54	10:11	15	Auriga: Starfish Cluster
Primary Focus	Broad Spectrum	OC	M-36	07:10 – 02:00	10:18	18	Auriga: Open Star Cluster NGC-1960
Primary Focus	Broad Spectrum	Galaxy	NGC-1961	07:11 – 01:42	10:24	21	Camelopardalis: Galaxies
Primary Focus	Broad Spectrum	DN	M-78	08:23 – 12:40	10:29	23	Orion: Dark and Bright Nebula
Primary Focus	Broad Spectrum	OC	M-37	07:10 – 02:13	10:34	23	Auriga: Salt and Pepper Cluster
Primary Focus	Broad Spectrum	DN	LDN-1622	08:22 – 12:56	10:36	25	Orion: Dark Nebula
Primary Focus	Broad Spectrum	RN	IC-2169	08:28 – 02:04	11:13	32	Monoceros: Reflection Nebula
Primary Focus	Broad Spectrum	OC	M-41	*09:38-01:20	11:28	34	Canis Major: Open Star Cluster NGC-2287
Primary Focus	Broad Spectrum	OC	M-50	*09:14-02:14	11:44	35	Monoceros: Open Star Cluster NGC-2323
Primary Focus	Broad Spectrum	Galaxy	UGC-3697	08:58 – 02:54	11:53	36	Camelopardalis: Galaxy Cluster
Primary Focus	Broad Spectrum	OC	M-47	*10:24-02:10	12:18	38	Puppis: Open Cluster NGC-2422
Primary Focus	Broad Spectrum	Galaxy	NGC-2403	08:49 – 03:54	12:18	38	Camelopardalis: Med Barred Spiral Galaxy
Primary Focus	Broad Spectrum	GC	NGC-2419	08:39 – 04:07	12:20	39	Lynx: Intergalactic Wanderer
Primary Focus	Broad Spectrum	OC	M-93	*10:16-02:41	12:26	40	Puppis: Butterfly Cluster
Primary Focus	Broad Spectrum	OC	M-48	11:24 – 02:33	12:55	40	Hydra: M-48 (NGC-2548)
Primary Focus	Broad Spectrum	OC	M-67	10:43 – 04:29	01:33	41	Cancer: M-67 (NGC-2682)
Primary Focus	Broad Spectrum	Galaxy	NGC-2685	09:54 – 05:27	01:37	41	Ursa Major: Helix Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-2903	11:00 – 05:34	02:13	42	Leo: Med Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-81	11:23 – 05:58	02:37	43	Ursa Major: Bode's Nebula
Primary Focus	Broad Spectrum	Galaxy	M-82	11:27 – 05:54	02:37	43	Ursa Major: Cigar Galaxy

## Prospective Imaging Objects – January

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	NGC-3115	*12:15-05:22	02:46	43	Sextans: Spindel Galaxy
Primary Focus	Broad Spectrum	Galaxy	UGC-5470	11:59 – 05:48	02:59	44	Leo: Powder Keg Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-3166, 3169	12:35 – 05:22	02:55	44	Sextans: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	Hickson 44	11:45 – 06:04	02:59	44	Leo: Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxy	NGC-3184	11:17 – 06:04	02:59	45	Ursa Major: Face On galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC 3227, 3226	11:55 – 03:05	03:05	45	Leo: Interacting galaxy pair
Primary Focus	Broad Spectrum	Galaxy	IC-2574	11:52 – 06:04	03:09	46	Leo: Coddington’s Nebula
Primary Focus	Broad Spectrum	Galaxies	Leo Trio 2	12:37 – 06:04	03:29	47	Leo: NGC-3379, 3384, 3389
Primary Focus	Broad Spectrum	Galaxies	NGC-3561 et. El.	12:25 – 06:04	03:52	47	Ursa Major: Ambartsumian’s Knot
Primary Focus	Broad Spectrum	Galaxy	M-108	12:07 – 06:04	03:52	48	Ursa Major: Med Galaxy NGC-3556
Primary Focus	Broad Spectrum	Galaxies	M-65 et. El.	01:07 – 06:04	04:01	49	Comp2 Leo: Lio Trio of Galaxies
Primary Focus	Broad Spectrum	Galaxy	NGC-3628	01:07 – 06:04	04:01	50	Leo: Edge on galaxy
Primary Focus	Broad Spectrum	Galaxies	M-65, M-66	11:54 – 06:04	04:00	50	Leo: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	Arp-214	10:46 – 06:04	04:14	50	Ursa Major: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	NGC-3746 et. El.	11:53 – 06:04	04:19	51	Leo: Copeland’s Septet
Primary Focus	Broad Spectrum	Galaxies	Abell 1367	12:04 – 06:04	04:26	51	Leo: Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxies	Arp-248	01:13 – 06:04	04:28	51	Ursa Major: Wild’s Triplet
Primary Focus	Broad Spectrum	Galaxy	M-109	11:10 – 06:04	04:39	52	Ursa Major: Face On Med Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4027	*02:45-06:04	04:40	52	Corvus: Irregular small Galaxy
Primary Focus	Broad Spectrum	Galaxies	Arp-244	*02:39-06:04	04:43	52	Corvus: Antennae Galaxies
Primary Focus	Broad Spectrum	Galaxy	M-98	01:57 – 06:04	04:55	53	Coma Berenices: Barred Spiral Galaxy NGC-4192
Primary Focus	Broad Spectrum	Galaxy	NGC-4236	01:46 – 06:04	04:57	53	Draco: Galaxy NGC-4236
Primary Focus	Broad Spectrum	Galaxy	NGC-4244	01:19 – 06:04	04:58	53	Canes Venatici: Silver Needle Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-99	02:03 – 06:04	05:00	54	Coma Berenices: St. Katherines Wheel
Primary Focus	Broad Spectrum	Galaxy	M-61	02:39 – 06:04	05:03	55	Virgo: Sm/Med Face-on Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	Winnecke 4	01:20 – 06:04	05:03	55	Ursa Major: Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxies	M-100	02:04 – 06:04	05:04	55	Coma Berenices: Face on Galaxy & other galaxies
Primary Focus	Broad Spectrum	Galaxy	NGC-4449	01:25 – 06:04	05:09	57	Candes Venatici: Irregular Galaxy

# Prospective Imaging Objects – January

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	M-49	02:34 – 06:04	05:11	57	Virgo: Elliptical Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-87	02:21 – 06:04	05:12	58	Virgo: Elliptical Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4490	01:29 – 06:04	05:11	58	Canes Venatici: Cocoon Galaxy
Primary Focus	Broad Spectrum	Galaxies	M-91	02:20 – 06:04	05:16	59	Coma Berenices: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	M-89	02:25 – 06:04	05:16	59	Virgo: Elliptical Galaxy & two others
Primary Focus	Broad Spectrum	Galaxy	NGC-4559	01:50 – 06:04	05:17	59	Coma Berenices: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-4567 et. El.	02:30 – 06:04	05:17	60	Virgo: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	NGC-4565	01:55 – 06:04	05:17	60	Coma Berenices: Edge on Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-90	02:25 – 06:04	05:18	60	Virgo: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	M-58	02:29 – 06:04	05:18	61	Virgo: Barred Spiral Galaxy NGC-4579
Primary Focus	Broad Spectrum	Globular	M-68	*03:36-06:04	05:20	61	Hydra: Med Globular Cluster
Primary Focus	Broad Spectrum	Galaxy	M-104	*02:39-06:04	05:34	62	Virgo: Sombrero Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-4676 A&B	01:57 – 06:04	05:27	63	Coma Berenices: The Mice
Primary Focus	Broad Spectrum	Galaxies	NGC-4725	02:10 – 06:04	05:31	63	Coma Berenices: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	M-94	01:50 – 06:04	05:32	64	Canes Venatici: Bright Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-4731	*02:54-06:04	05:32	64	Virgo: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-4762, 4754	02:46 – 06:04	05:34	64	Virgo: Edge on and Elliptical galaxies
Primary Focus	Broad Spectrum	Galaxy	M-64	02:24 – 06:04	05:37	65	Coma Berenices: Bright Galaxy
Primary Focus	Broad Spectrum	Galaxies	Abell-1656	02:15 – 06:04	05:40	65	Coma Berenices: Coma Galaxy Cluster
Primary Focus	Broad Spectrum	Globular	M-53	02:48 – 06:04	05:54	66	Coma Berenices: Med Globular
Primary Focus	Broad Spectrum	Galaxy	NGC-5033	02:17 – 06:04	05:54	66	Canes Venatici: Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-63	02:14 – 06:04	05:56	66	Canes Venatici: Sunflower Galaxy
Primary Focus	Broad Spectrum	Globular	NGC-5053	02:53 – 06:04	05:57	67	Coma Berenices: Loose Globular
Primary Focus	Broad Spectrum	Galaxy	M-51	02:25 – 06:04	06:10	67	Canes Venatici: Whirlpool Galaxy