

# Prospective Imaging Objects – February

## Astronomical Data

| Sunrise  | Sunset   | Astronomical Dusk | Astronomical Dawn | Imaging | Data Date   |
|----------|----------|-------------------|-------------------|---------|-------------|
| 07:11 am | 06:12 pm | 07:36 pm          | 05:48 am          | 10:12   | February 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

The diagram illustrates the layout of an object entry. On the left, there is a text block with the following information:
 


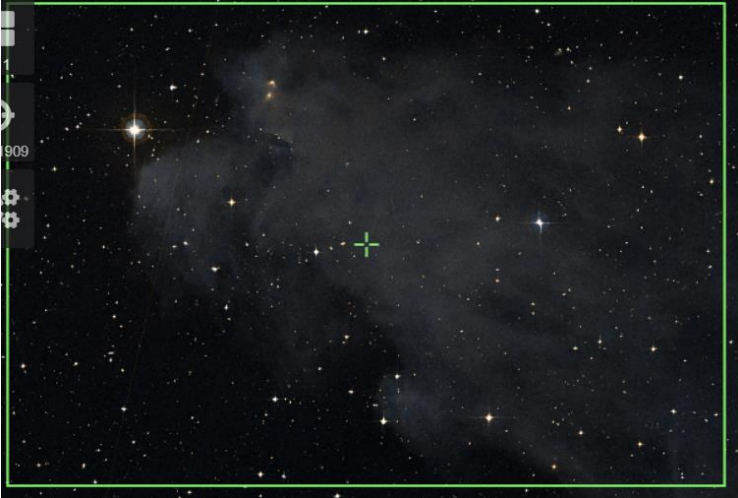

- 02:** Object Name and catalog number: **Sculptor Galaxy (NGC 253)**
- 03:** Config: **C11 | LF Corr | 128c**
- 04:** Type: **Galaxy**
- 01:** Peak: **Oct 02**
- Constellation: **Sculptor**
- Coordinates: **00hr 47' 33"** and **-25° 17' 15"**
- 05:** Close Star: **SAO-147420**
- 06:** Catalog Objects: **NGC 253**
- 07:** Imaging Window: **\*10:44 – 02:44**
- 08:** Transit: **12:48**

 On the right, there is a thumbnail image of the Sculptor Galaxy (NGC 253) labeled "Primary Focus". The image has a grey background. A legend on the left explains the callouts:
 




- 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.

- 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.
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- 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.


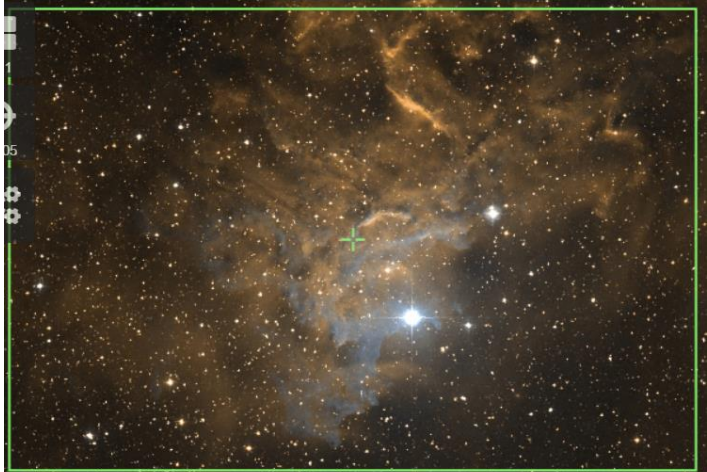

# Prospective Imaging Objects – February

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|---|---|
| <p><b>Witch Head Nebula (IC 2118)</b><br/>           Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b><br/>           Peak:<br/>           Constellation: <b>Eridanus</b><br/>           Coordinates:<br/> <b>05hr 05' 19.872"</b><br/> <b>-06° 56' 00.365"</b></p> <p>Close Star: SAO-131794<br/>           Catalog Objects: <a href="#">IC 2118</a></p> <p>Imaging Window: *07:36 – 10:48<br/>           Transit: 07:42   49°</p> | <p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">Witch Head Nebula (IC-2118)<br/>           Constellation: Eridanus<br/>             RA = 05h 05m 19.872s DEC = -06deg 56' 00.365"   Size = 2.66 x 1.78 deg   Pixel scale = 2.27 arc/pixel  <br/>           James Yoder 2019.09.25 Location: Chandler, AZ<br/>           Config: (C11) HyperStar   Baader Skyliner   QHY236  <br/>           Exposure Info: 154frames@90s   Gain: 3200   Offset: 180</p> |
| <p><b>Witch Head Nebula (IC 2118)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b><br/>           Peak:<br/>           Constellation: <b>Eridanus</b><br/>           Coordinates:<br/> <b>05hr 07' 07"</b><br/> <b>-06° 20' 07"</b></p> <p>Close Star: SAO-131794<br/>           Catalog Objects: <a href="#">IC 2118</a></p> <p>Imaging Window: *07:36 – 10:48<br/>           Transit: 07:42   49°</p>               | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>Foxface Nebula (NGC 1788)</b><br/>           Config:  C11 HS ZWO6200MCc </p> <p>Type: <b>Bright Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b><br/>           Coordinates:<br/> <b>05hr 06' 10"</b><br/> <b>-04° 04' 26"</b></p> <p>Close Star: SAO-131794<br/>           Catalog Objects: <a href="#">NGC 1788</a></p> <p>Imaging Window: 07:36 – 09:40<br/>           Transit: 07:47</p>                        | <p style="text-align: center;"><b>Hyperstar</b></p>  <p style="font-size: small;">FOV 3.80 x 2.54° · RA 05hr 06' 10", DEC -04° 04' 26"</p>  |




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| <p><b>Foxface Nebula</b> (NGC 1788)<br/>           Config:  C11-<br/>           HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b><br/>           Coordinates:<br/> <b>05hr 05' 52"</b><br/> <b>-03° 22' 22"</b></p> <p>Close Star: SAO-131794<br/>           Catalog Objects: <a href="#">NGC 1788</a></p> <p>Imaging Window: <b>07:36 – 09:40</b><br/>           Transit: <b>07:47</b></p>   | <p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>   |
| <p><b>Foxface Nebula</b> (NGC 1788)<br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b><br/>           Coordinates:<br/> <b>05hr 06' 26"</b><br/> <b>-03° 20' 13"</b></p> <p>Close Star: SAO-131794<br/>           Catalog Objects: <a href="#">NGC 1788</a></p> <p>Imaging Window: <b>07:36 – 09:40</b><br/>           Transit: <b>07:47</b></p>   | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>    |
| <p><b>Flaming Star Nebula</b> (IC-405)<br/>           Config: C11-HD   HS  <br/>           ZWO6200MC</p> <p>Type: <b>Bright Nebula</b><br/>           Peak:<br/>           Constellation: <b>Auriga</b><br/>           Coordinates:<br/> <b>05hr 19' 38"</b><br/> <b>33° 49' 10"</b></p> <p>Close Star: SAO-77168 (Elnath)<br/>           Catalog Objects: <a href="#">IC 405</a>, <a href="#">IC 410</a></p> <p>Imaging Window: <b>07:36 – 11:39</b><br/>           Transit: <b>07:57   89°</b></p> | <p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;"> <small>Flaming Star Nebula (IC-405, IC-410, IC-417)<br/>           Constellation: Auriga</small> </p> |




# Prospective Imaging Objects – February

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| <p><b>Flaming Star Nebula (IC 405)</b><br/>           Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Bright Nebula</b><br/>           Peak:<br/>           Constellation: <b>Auriga</b><br/>           Coordinates:<br/> <b>05hr 15' 55"</b><br/> <b>34° 29' 08"</b></p> <p>Close Star: SAO-77168 (Elnath)<br/>           Catalog Objects: <a href="#">IC 405</a></p> <p>Imaging Window: <b>07:36 – 11:39</b><br/>           Transit: <b>07:57   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)<br/>           Constellation: Auriga<br/>           RA = 85.156 31.5, DEC = +34deg 27' 32.1", Size = 58.8 x 41.7 arcmin (Orientation: Mag E of N)   Pixel scale = 0.629 arcsec/pixel   FL=1957mm<br/>           James Webb   Details 2023 01 02   Location: Chandler, AZ<br/>           Config: C11-HD   F7 Reducer   Filter: Optolong L-eStarone   Camera: QHY128C  <br/>           Exposure Info: 200img/Star   Gain: 3200   Offset: 100</p> |
| <p><b>Flaming Star Nebula (IC 405)</b><br/>           Config:  C11-HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b><br/>           Peak:<br/>           Constellation: <b>Auriga</b><br/>           Coordinates:<br/> <b>05hr 16' 37"</b><br/> <b>34° 23' 47"</b></p> <p>Close Star: SAO-77168 (Elnath)<br/>           Catalog Objects: <a href="#">IC 405</a></p> <p>Imaging Window: <b>07:36 – 11:39</b><br/>           Transit: <b>07:57   89°</b></p>           | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Flaming Star Nebula (IC-405)<br/>           Constellation: Auriga<br/>           RA = 85.156 31.5, DEC = +34deg 27' 32.1", Size = 58.8 x 41.7 arcmin (Orientation: Mag E of N)   Pixel scale = 0.629 arcsec/pixel   FL=1957mm<br/>           James Webb   Details 2023 01 02   Location: Chandler, AZ<br/>           Config: C11-HD   F7 Reducer   Filter: Optolong L-eStarone   Camera: QHY128C  <br/>           Exposure Info: 200img/Star   Gain: 3200   Offset: 100</p>       |
| <p><b>Tadpoles (IC 410)</b><br/>           Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>           Peak:<br/>           Constellation: <b>Auriga</b><br/>           Coordinates:<br/> <b>05hr 22' 54"</b><br/> <b>33° 23' 31"</b></p> <p>Close Star: SAO-77168 (Elnath)<br/>           Catalog Objects: <a href="#">IC 410</a></p> <p>Imaging Window: <b>07:36 – 11:42</b><br/>           Transit: <b>08:02   90°</b></p>           | <p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b></b></p>  <p style="font-size: small;">Tadpole Nebula (IC-410)<br/>           Constellation: Auriga<br/>           RA = 85.226 31.355, DEC = +33deg 23' 22.48", Size = 78.3 x 38.8 arcmin (Orientation: Mag E of N)   Pixel scale = 0.63 arcsec/pixel   FL=1957mm<br/>           James Webb   Details 2023 01 01   Location: Chandler, AZ<br/>           Config: C11-HD   F7 Reducer   Filter: Optolong L-eStarone   Camera: QHY128C  <br/>           Exposure Info: 60img/Star   Gain: 3200   Offset: 100</p>   |



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| <p><b>Tadpoles (IC 410)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>           Peak:<br/>           Constellation: <b>Auriga</b><br/>           Coordinates:<br/> <b>05hr 22' 37"</b><br/> <b>33° 23' 03"</b></p> <p>Close Star: SAO-77168 (Elnath)<br/>           Catalog Objects: <a href="#">IC 410</a></p> <p>Imaging Window: <b>07:36 – 11:42</b><br/>           Transit: <b>08:02   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)<br/>           Constellation: Auriga<br/>           RA: 05h 22m 37.01s, DEC: +33deg 23' 03.17" Size: 42.4 x 28.6 arcmin, Pixel scale: 0.642 arcsec/pixel</p> <p style="font-size: x-small; text-align: right;">Stack Tools: 2024-12-22<br/>           ... 10:49:01, Channel: 02<br/>           Config: C-11 HD (Secondary), C-11 HD (Primary)<br/>           Exposure Info: 210sec/Chan, Gain: 5000, Offset: 138</p> |
| <p><b>M-79 (NGC-1904)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b><br/>           Peak:<br/>           Constellation: <b>Lepus</b><br/>           Coordinates:<br/> <b>05hr 24' 11"</b><br/> <b>-24° 31' 25"</b></p> <p>Close Star: SAO-170457<br/>           Catalog Objects: <a href="#">M 79</a></p> <p>Imaging Window: <b>*07:36 – 09:08</b><br/>           Transit: <b>08:04   32°</b></p>          | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>Spirograph Nebula (IC 418)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b><br/>           Constellation: <b>Lepus</b><br/>           Coordinates:<br/> <b>05hr 27' 28"</b><br/> <b>-12° 41' 48"</b></p> <p>Close Star: SAO-132542 (Saiph)<br/>           Catalog Objects: <a href="#">IC-418</a></p> <p>Imaging Window: <b>*07:36 – 10:52</b><br/>           Transit: <b>08:07   44°</b></p>          | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>    |


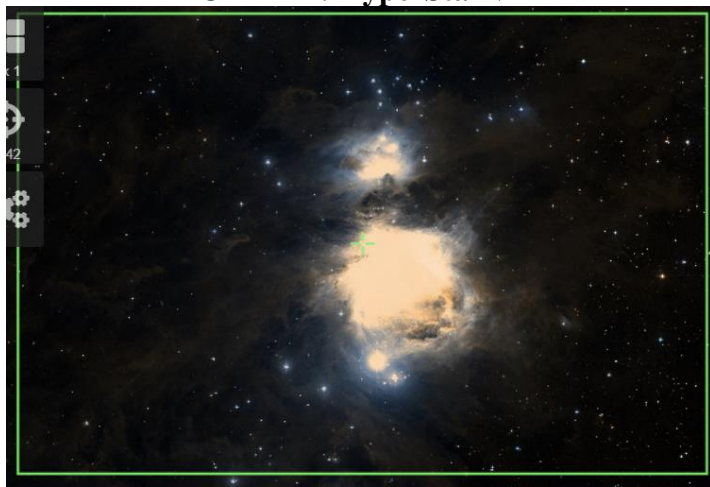
# Prospective Imaging Objects – February

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| <p><b>The Spider and the Fly</b><br/>(M-77, NGC-1055, NGC-1931)<br/>Config:  C11-<br/>HD FR ZWO6200MC <br/>Type: <b>Diffuse Nebula</b><br/>Peak:<br/>Constellation: <b>Auriga</b></p> <p><b>Camera Rotation - 90°</b><br/>Frame 01<br/>RA: <b>05hr 30' 44"</b>DEC: <b>34° 20' 41"</b><br/>Frame 02<br/>RA: <b>05hr 27' 55"</b>DEC: <b>34° 20' 41"</b></p> <p>Close Star: SAO-77168 (Elnath)<br/>Catalog Objects: <a href="#">IC-417</a>, <a href="#">NGC-1931</a></p> <p>Imaging Window: <b>07:36 – 11:49</b><br/>Transit: <b>08:08   89°</b></p> | <p><b>C-11 HD: Focal Reducer Composite!</b></p>  <p><small>The Spider and the Fly (IC-417 &amp; NGC-1931)<br/>Constellation: Auriga<br/>RA = 05h 29m 21.5s DEC = 34deg 20' 41.1" Size = 60.0 x 40.0 arcmin Obsession: 0.50Mag E of N, Pixel scale = 0.428 arcsecond FL=1075mm<br/>James Yoder (Dewar) M08 03 30 31 32 1 Location: Cheshire, CT<br/>Config: C11HD 1.1 Reducer 1.0mm Opening L4-Chrome Camera OHY 2300<br/>Exposure Info: Parallel Processing, Parallel Mount/Track Guide, 2000 OFFset 100</small></p> |
| <p><b>The Spider (IC 417)</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>Peak:<br/>Constellation: <b>Auriga</b><br/>Coordinates:<br/><b>05hr 28' 03"</b><br/><b>34° 22' 58"</b></p> <p>Close Star: SAO-77168 (Elnath)<br/>Catalog Objects: <a href="#">IC 417</a></p> <p>Imaging Window: <b>07:36 – 11:49</b><br/>Transit: <b>08:08   89°</b></p>   | <p><b>C-11 HD: Primary Focus</b></p>    |
| <p><b>Starfish Cluster (M-38)</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b><br/>Constellation: <b>Auriga</b><br/>Coordinates:<br/><b>05hr 28' 43"</b><br/><b>35° 51' 18"</b></p> <p>Close Star: <b>SAO-77168</b> (Elnath)<br/>Catalog Objects: <a href="#">M-38</a></p> <p>Imaging Window: <b>07:36 – 11:52</b><br/>Transit: <b>08:09   88°</b></p>  | <p><b>C-11 HD: Primary Focus</b></p>  <p><small>M-038<br/>Starfish Cluster<br/>James Yoder<br/>2019-09-30</small></p>  |

# Prospective Imaging Objects – February




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| <p><b>The Fly (NGC 1931)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>           Peak:<br/>           Constellation: <b>Auriga</b><br/>           Coordinates:<br/> <b>05hr 31' 24"</b><br/> <b>34° 15' 00"</b></p> <p>Close Star: SAO-77168 (Elnath)<br/>           Catalog Objects: <a href="#">NGC 1931</a></p> <p>Imaging Window: <b>07:36 – 11:53</b><br/>           Transit: <b>08:11   89°</b></p> | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>Crab Nebula (M 1)</b><br/>           Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b><br/>           Peak:<br/>           Constellation: <b>Taurus</b><br/>           Coordinates:<br/> <b>05hr 34' 30"</b><br/> <b>22° 00' 59.9"</b></p> <p>Close Star: SAO-77336<br/>           Catalog Objects: <a href="#">M 1</a></p> <p>Imaging Window: <b>07:36 – 11:35</b><br/>           Transit: <b>08:15   79°</b></p>            | <p style="text-align: center;"><b>Primary Focus</b></p>  <p><small>Crab Nebula (Messier-1)<br/>           Constellation: Taurus<br/>           R.A. = 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 (F1, 2756mm)<br/>           James Yoder (Drew) 2022-12-01, 07:36, 09:10 Location: Chandler, AZ<br/>           Config:  C-11 HD Fiber: OPY Radian Ultra   QHY128c  <br/>           Exposure Info: 750msx40ms   Gain: 1200   Offset: 100</small></p> |

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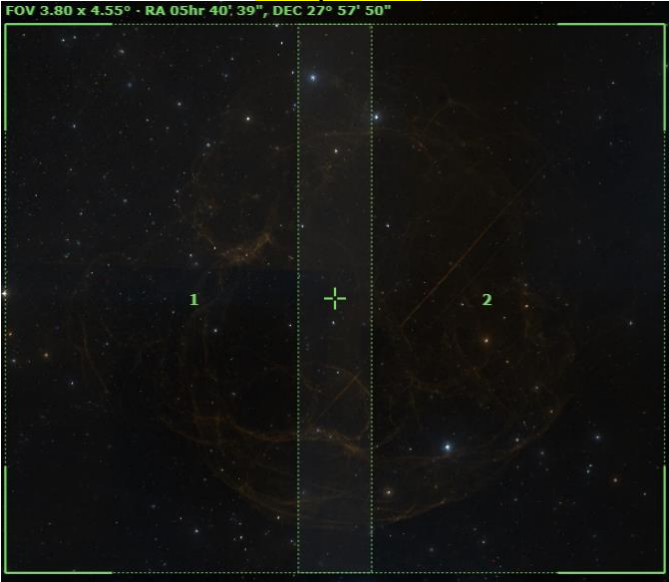
|  |  |
|--|--|
| <p><b>The Orion Complex</b><br/>         Config: C11   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b><br/>         Peak:<br/>         Constellation: <b>Orion</b><br/>         Coordinates:<br/>         Frame 01<br/>         RA: 05hr 43' 42" DEC: -01° 01' 06"<br/>         Frame 02<br/>         RA: 05hr 31' 05" DEC: -01° 01' 06"<br/>         Frame 03<br/>         RA: 05hr 43' 42" DEC: -03° 07' 35"<br/>         Frame 04<br/>         RA: 05hr 31' 04" DEC: -03° 07' 35"<br/>         Frame 05<br/>         RA: 05hr 43' 43" DEC: -05° 14' 05"<br/>         Frame 06<br/>         RA: 05hr 31' 04" DEC: -05° 14' 05"</p> <p>Close Star: SAO-132542 (Saiph)<br/>         Catalog Objects: <a href="#">M-42</a></p> <p>Imaging Window: <b>07:36 – 09:54</b><br/>         Transit: <b>08:15</b></p> | <p style="text-align: center;"><b>C-11 HD: HyperStar v4</b><br/> <b>SUPER-6 Composite!</b></p>  |
| <p><b>The Orion Nebula (M 42)</b><br/>         Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b><br/>         Peak:<br/>         Constellation: <b>Orion</b><br/>         Coordinates:<br/> <b>05hr 35' 46"</b><br/> <b>-05° 15' 34"</b></p> <p>Close Star: SAO-132542 (Saiph)<br/>         Catalog Objects: <a href="#">M-42</a></p> <p>Imaging Window: <b>07:36 – 09:54</b><br/>         Transit: <b>08:15</b></p>  | <p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>                                |



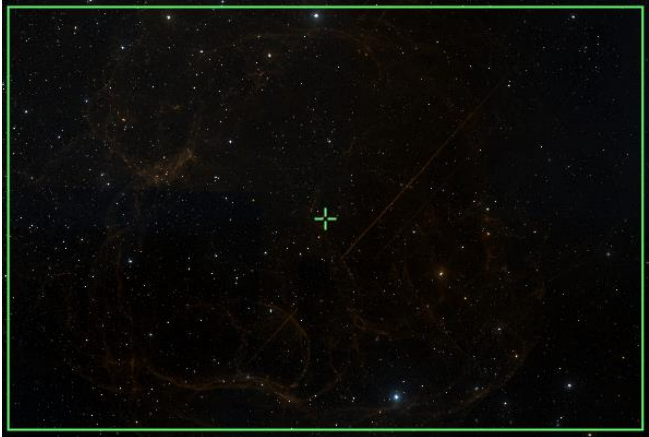


# Prospective Imaging Objects – February

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|---|---|
| <p><b>The Orion Nebula (M 42)</b><br/>           Config: C6-SE   HS   ZWO6200MC (Cropped)</p> <p>Type: <b>Diffuse Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b><br/>           Coordinates:<br/> <b>05hr 35' 18.4"</b><br/> <b>-05° 23' 51.0"</b></p> <p>Close Star: SAO-132542 (Saiph)<br/>           Catalog Objects: <a href="#">M-42</a></p> <p>Imaging Window: <b>07:36 – 09:54</b><br/>           Transit: <b>08:15</b></p>    | <p style="text-align: center;"><b>C6-SE: HyperStar v4</b></p>  <p style="font-size: small;">Orion Nebula (M-42)<br/>           Constellation: Orion the Hunter<br/>           RA = 05h 35m 18.400s - 2024-02-25 07:36:00 (Observer: Tobi K. F. N. Photo: -1.5) (exposure: 1) (1-100min)</p> <p style="font-size: x-small; text-align: right;">James Webb   Date: 2024-02-25   Location: Chandra, AZ<br/>           Config: C-6SE   HyperStar V4   OPI Filter: H-alpha   ZWO6200MC<br/>           Exposure Info: 112 (Group Size: 100)</p> |
| <p><b>The Orion Nebula (M 42)</b><br/>           Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b><br/>           Coordinates:<br/> <b>05hr 35' 09"</b><br/> <b>-05° 24' 32"</b></p> <p>Close Star: SAO-132542 (Saiph)<br/>           Catalog Objects: <a href="#">M-42</a></p> <p>Imaging Window: <b>07:36 – 09:54</b><br/>           Transit: <b>08:15</b></p>                       | <p style="text-align: center;"><b>Primary Focus</b></p>  <p style="font-size: small;">Orion Nebula (M-42)<br/>           Constellation: Orion</p> <p style="font-size: x-small; text-align: right;">James Webb   Date: 2019-01-25<br/>           Location: Chandra, AZ<br/>           Config: C11   HyperStar V4   OPI Filter: H-alpha   ZWO6200MC<br/>           Exposure Info: 21 (Group Size: 100)</p>  |
| <p><b>Running Man Nebula (NGC 1977)</b><br/>           Config:  C6-HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b><br/>           Coordinates:<br/> <b>05hr 35' 18.1"</b><br/> <b>-04° 41' 25.9"</b></p> <p>Close Star: SAO-132542 (Saiph)<br/>           Catalog Objects: <a href="#">NGC-1977</a></p> <p>Imaging Window: <b>07:36 – 09:58</b><br/>           Transit: <b>08:15   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)<br/>           Constellation: Orion the Hunter<br/>           RA = 05h 35m 18.100s - 2024-02-25 07:36:00 (Observer: Tobi K. F. N. Photo: -0.5) (exposure: 1) (1-100min)</p> <p style="font-size: x-small; text-align: right;">James Webb   Date: 2024-02-25   Location: Chandra, AZ<br/>           Config: C-6SE   OPI Filter: H-alpha   ZWO6200MC<br/>           Exposure Info: 129 (Group Size: 100)</p>   |




# Prospective Imaging Objects – February

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| <p><b>Running Man Nebula (NGC 1977)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b><br/>           Coordinates:<br/> <b>05hr 35' 27"</b><br/> <b>-04° 53' 09"</b></p> <p>Close Star: SAO-132542 (Saiph)<br/>           Catalog Objects: <a href="#">NGC-1977</a></p> <p>Imaging Window: <b>07:36 – 09:58</b><br/>           Transit: <b>08:15   52°</b></p>  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>    |
| <p><b>M-36 (NGC-1960)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b><br/>           Constellation: <b>Auriga</b><br/>           Coordinates:<br/> <b>05hr 36' 18"</b><br/> <b>34° 08' 27"</b></p> <p>Close Star: <b>SAO-77168</b> (Elnath)<br/>           Catalog Objects: <a href="#">M-36</a>/NGC-1960</p> <p>Imaging Window: <b>07:36 – 11:57</b><br/>           Transit: <b>08:16   89°</b></p>  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>Simeis 147 (SH2-240)</b><br/>           Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Diffuse Nebula</b><br/>           Constellation: <b>Taurus</b></p> <p><b>Camera Rotation - 90°</b></p> <p>Coordinates:<br/>           Frame 01<br/>           RA: <b>05hr 45' 38"</b> DEC: <b>27° 56' 31"</b><br/>           Frame 02<br/>           RA: <b>05hr 36' 28"</b> DEC: <b>27° 56' 31"</b></p> <p>Close Star: <b>SAO-77168</b> (Elnath)<br/>           Catalog Objects: <a href="#">SH2-240</a></p> <p>Imaging Window: <b>07:36 – 11:53</b><br/>           Transit: <b>08:21   85°</b></p> | <p style="text-align: center;"><b>C-11 HD: HyperStar v4</b><br/> <b>Composite-2</b></p> <p>FOV 3.80 x 4.55° - RA 05hr 40' 39", DEC 27° 57' 50"</p>  |



# Prospective Imaging Objects – February

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| <p><b>Simeis 147</b> (SH2-240)<br/>         Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b><br/>         Constellation: <b>Taurus</b><br/>         Coordinates:<br/> <b>05hr 39' 04"</b><br/> <b>28° 00' 00"</b></p> <p>Close Star: SAO-77168 (Elnath)<br/>         Catalog Objects: <a href="#">SH2-240</a></p> <p>Imaging Window: <b>07:36 – 11:53</b><br/>         Transit: <b>08:21   85°</b></p>   | <p><b>C-11 HD: HyperStar v4</b></p>    |
| <p><b>Flame and Horsehead Nebula</b> (NGC 2024, B 33)<br/>         Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Diffuse/Dark Nebula</b><br/>         Peak:<br/>         Constellation: <b>Orion</b><br/>         Coordinates:<br/> <b>05hr 40' 04"</b><br/> <b>-02° 28' 13"</b></p> <p>Close Star: SAO-132542 (Saiph)<br/>         Catalog Objects: <a href="#">NGC-2024</a>, <a href="#">B-33</a></p> <p>Imaging Window: <b>07:36 – 10:23</b><br/>         Transit: <b>08:22   55°</b></p> | <p><b>C-11 HD: HyperStar v4</b></p>  <p><small>Horsehead and Flame Nebula<br/>         Constellation: Orion</small></p> <p><small>Image taken on 2024-10-02<br/>         Location: Mountain View, California, USA<br/>         Config: C11 HyperStar v4   ZWO6200MC<br/>         Exposure Info: 10x300sec, Gain: 1400, Offset: 75</small></p> |
| <p><b>Flame Nebula</b> (NGC 2024)<br/>         Config:  C11-HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>         Peak:<br/>         Constellation: <b>Orion</b><br/>         Coordinates:<br/> <b>05hr 41' 30"</b><br/> <b>-01° 45' 21"</b></p> <p>Close Star: SAO-132542 (Saiph)<br/>         Catalog Objects: <a href="#">NGC-2024</a></p> <p>Imaging Window: <b>07:36 – 10:23</b><br/>         Transit: <b>08:22   55°</b></p>  | <p><b>C-11 HD: Focal Reducer</b></p>  <p><small>FOV 1.05 x 0.70° · RA 05hr 41' 30", DEC -01° 45' 21"</small></p>   |



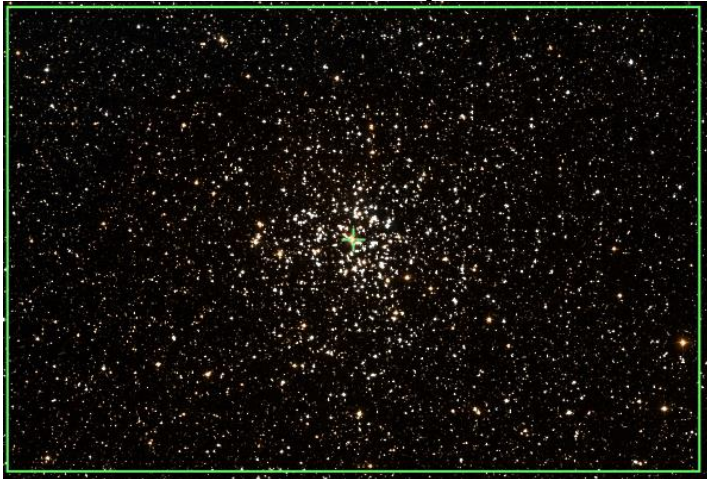
# Prospective Imaging Objects – February

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|---|---|
| <p><b>Flame Nebula (NGC 2024)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b><br/>           Coordinates:<br/> <b>05hr 41' 45.843"</b><br/> <b>-01° 49' 31.401"</b></p> <p>Close Star: SAO-132542 (Saiph)<br/>           Catalog Objects: <a href="#">NGC-2024</a></p> <p>Imaging Window: <b>07:36 – 10:23</b><br/>           Transit: <b>08:22   55°</b></p> | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Flame Nebula (NGC-2024)<br/>           Constellation: Orion<br/>           RA = 05h 41m 45.843s DEC = -01deg 49' 31.401" Size = 42.7 x 28.8 arcmin: Pixel scale = 0.445 arcsec/pixel<br/>           James Yoder - 2018.12.02 Location: Chandler, AZ<br/>           Config:  C-11 HD ZWO6200MC  Filter: None   Filter Wheel: 1   Exposure Info: 2700sec/Frame Gain: 200   Offset: 100</p>                                     |
| <p><b>Horsehead Nebula (B 33)</b><br/>           Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Dark Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b><br/>           Coordinates:<br/> <b>05hr 40' 59"</b><br/> <b>-02° 31' 47"</b></p> <p>Close Star: SAO-132542 (Saiph)<br/>           Catalog Objects: <a href="#">B 33</a></p> <p>Imaging Window: <b>07:36 – 10:19</b><br/>           Transit: <b>08:21   54°</b></p>                | <p style="text-align: center;"><b>Primary Focus</b></p>  <p style="font-size: small;">Horsehead Nebula (IC-434)<br/>           Constellation: Orion<br/>           James Yoder - 2018.12.02 Location: Chandler, AZ<br/>           Config:  C-11 HD ZWO6200MC  Filter: None   Filter Wheel: 1   Exposure Info: 2700sec/Frame Gain: 200   Offset: 100</p>  |
| <p><b>NGC 2022</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b><br/>           Coordinates:<br/> <b>05hr 42' 07"</b><br/> <b>09° 04' 55"</b></p> <p>Close Star: SAO-112740 (Bellatrix)<br/>           Catalog Objects: <a href="#">NGC-2022</a></p> <p>Imaging Window: <b>07:36 – 11:09</b><br/>           Transit: <b>08:22   66°</b></p>                   | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC-2022<br/>           Constellation: Orion<br/>           RA = 05h 42m 06.91s DEC = +09deg 04' 54.9" Size = 18.5 x 13.9 arcmin: Orientation: 0. Mag: 7.0   Pixel scale = 0.277 arcsec/pixel   F1 - 200mm<br/>           James Yoder   Date: 2020.12.09. 10   Location: Chandler, AZ<br/>           Config:  C-11 HD ZWO6200MC  Filter: None   Filter Wheel: 1   Exposure Info: 50 frames/2min Gain: 100   Offset: 50</p> |

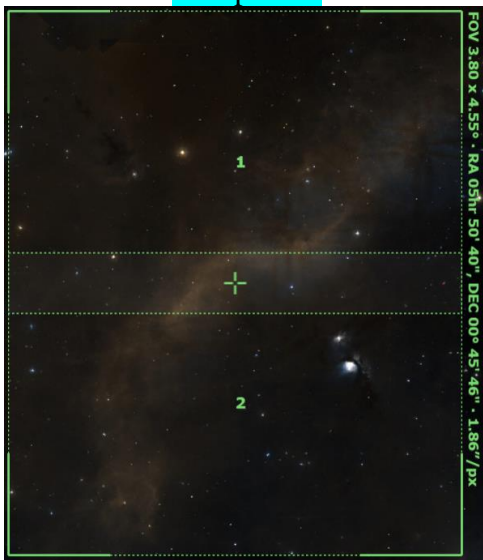
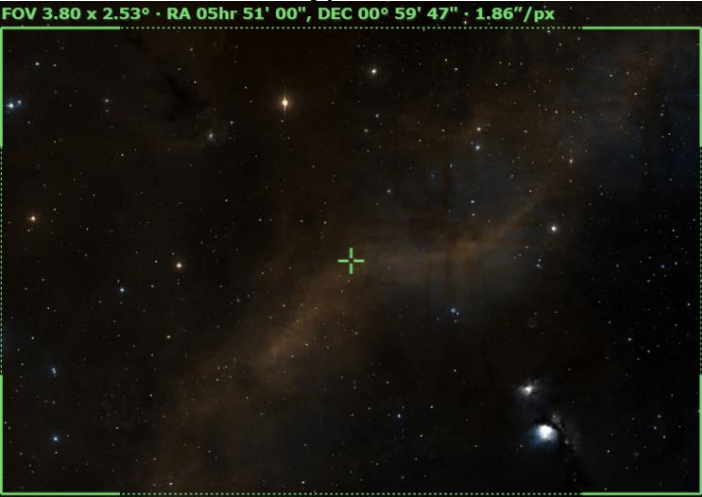
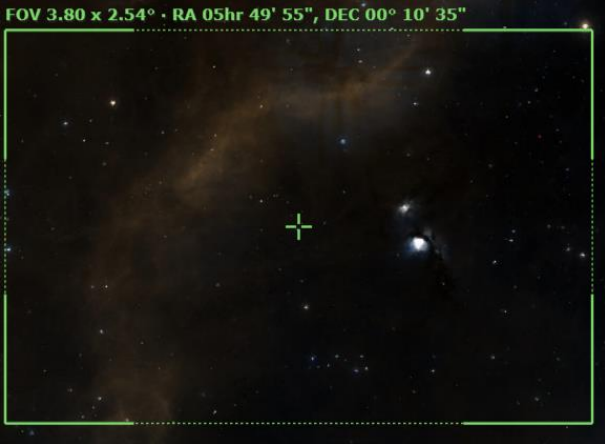
# Prospective Imaging Objects – February

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| <p><b>NGC 1961</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Spiral Galaxy</b><br/>           Peak:<br/>           Constellation: <b>Camelopardalis</b><br/>           Coordinates:<br/> <b>05hr 43' 27"</b><br/> <b>69° 20' 48"</b></p> <p>Close Star: SAO-40750 (Menkalinan)<br/>           Catalog Objects: <a href="#">NGC-1961</a></p> <p>Imaging Window: <b>07:36 – 11:40</b><br/>           Transit: <b>08:22   54°</b></p>  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">Galaxy Cluster (NGC-1961 et al.)<br/>           Constellation: Camelopardalis<br/>           RA: 05h 43m 27.00s DEC: 69° 20' 48" Star: 42 14 28.3 arcmin / Pixel scale = 0.441 arcsec/pixel<br/>           Date: 2023-01-25<br/>           Location: Mountain View, CA<br/>           Camera: ZWO ASI 6200MC<br/>           Filter: Clear<br/>           Exposure: 30 frames / Total: 3000 / Offset: 100"</p> |
| <p><b>M-78</b><br/>           Config:  C11-<br/>           HD FR ZWO6200MC </p> <p>Type: <b>Dark Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b></p> <p>Frame 01<br/>           RA: <b>05hr 47' 05"</b>DEC: <b>00° 20' 09"</b></p> <p>Frame 02<br/>           RA: <b>05hr 47' 05"</b>DEC: <b>-00° 14' 43"</b></p> <p>Close Star: SAO-132346 (Alnilam)<br/>           Catalog Objects: <a href="#">M-78</a></p> <p>Imaging Window: <b>07:36 – 10:38</b><br/>           Transit: <b>08:27</b></p> | <p style="text-align: center;"><b>C-11 HD: Focal Reducer<br/>           Composite!</b></p>  <p style="font-size: x-small; text-align: right;">FOV 1.04 x 1.28". RA 05h 47' 04" DEC 00° 02' 43"</p>  |



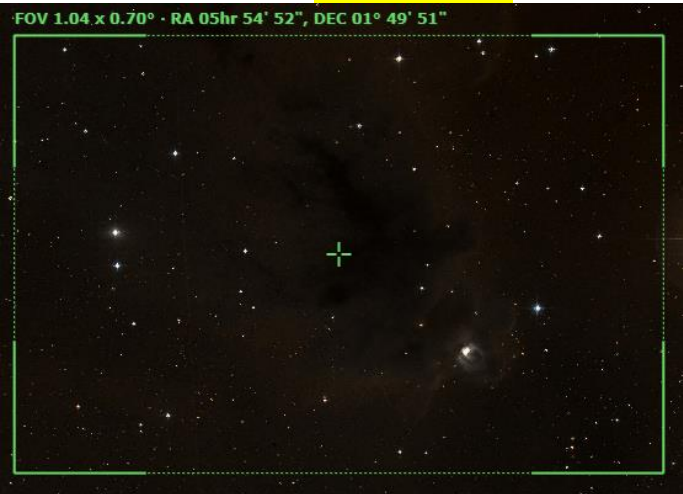
# Prospective Imaging Objects – February

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| <p><b>M-78</b><br/>         Config:  C11-<br/>         HD FR ZWO6200MC </p> <p>Type: <b>Bright and Dark Nebula</b><br/>         Peak:<br/>         Constellation: <b>Orion</b><br/>         Coordinates:<br/> <b>05hr 46' 59"</b><br/> <b>00° 08' 59"</b></p> <p>Close Star: SAO-132346 (Alnilam)<br/>         Catalog Objects: <a href="#">M-78</a></p> <p>Imaging Window: <b>07:36 – 10:38</b><br/>         Transit: <b>08:27</b></p> | <p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>    |
| <p><b>M-78</b><br/>         Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright and Dark Nebula</b><br/>         Peak:<br/>         Constellation: <b>Orion</b><br/>         Coordinates:<br/> <b>05hr 47' 03"</b><br/> <b>00° 09' 46"</b></p> <p>Close Star: SAO-132346 (Alnilam)<br/>         Catalog Objects: <a href="#">M-78</a></p> <p>Imaging Window: <b>07:36 – 10:38</b><br/>         Transit: <b>08:27</b></p>                   | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>Salt and Pepper Cluster(M-37)</b><br/>         Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b><br/>         Constellation: <b>Auriga</b><br/>         Coordinates:<br/> <b>05hr 52' 18"</b><br/> <b>32° 33' 11"</b></p> <p>Close Star: <b>SAO-77168</b> (Elnath)<br/>         Catalog Objects: <a href="#">M-37</a>/NGC-2099</p> <p>Imaging Window: <b>07:36 – 12:11</b><br/>         Transit: <b>08:32   89°</b></p>  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  |

# Prospective Imaging Objects – February




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| <p><b>LDN-1622 (Region 01)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula &amp; Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b></p> <p>Coordinates:<br/>           Pane 1: <b>05hr 50' 40", 01° 46' 30"</b><br/>           Pane 2, <b>05hr 50' 40", 00° 14' 57"</b></p> <p>Close Star: SAO-132346 (Annilam)<br/>           Catalog Objects: <a href="#">LDN-1622</a></p> <p>Imaging Window: <b>07:36 – 10:54</b><br/>           Transit: <b>08:34   59°</b></p> | <p style="text-align: center;"><b>C-11 HD: HyperStar v4</b><br/> <b>Composite!</b></p>  |
| <p><b>LDN-1622 (Region 01)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula &amp; Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b></p> <p>Coordinates:<br/> <b>05hr 51' 00"</b><br/> <b>00° 59' 47"</b></p> <p>Close Star: SAO-132346 (Annilam)<br/>           Catalog Objects: <a href="#">LDN-1622</a><br/>           Imaging Window: <b>07:36 – 10:54</b><br/>           Transit: <b>08:34   59°</b></p>  | <p style="text-align: center;"><b>HyperStar</b></p>                                    |
| <p><b>LDN-1622 (Region 02)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula &amp; Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b></p> <p>Coordinates:<br/> <b>05hr 49' 55"</b><br/> <b>00° 10' 35"</b></p> <p>Close Star: SAO-132346 (Annilam)<br/>           Catalog Objects: <a href="#">LDN-1622</a><br/>           Imaging Window: <b>07:36 – 10:54</b><br/>           Transit: <b>08:34   59°</b></p>  | <p style="text-align: center;"><b>HyperStar</b></p>   |

# Prospective Imaging Objects – February

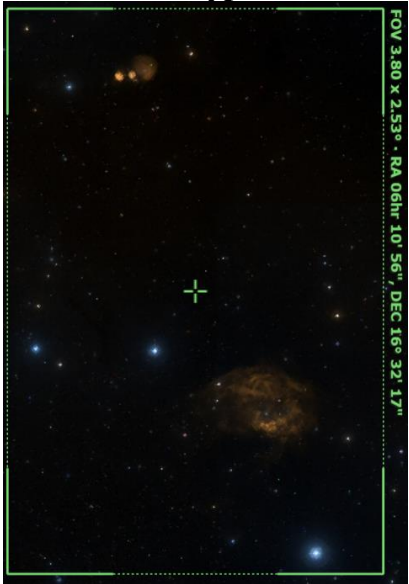


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| <p><b>LDN-1622 (Region 03)</b><br/>           Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Bright and Dark Nebula</b><br/>           Peak:<br/>           Coordinates:<br/> <b>05hr 54' 51"</b><br/> <b>01° 47' 10"</b></p> <p>Close Star: SAO-112740(Bellatrix)<br/>           Catalog Objects: <a href="#">LDN-1622</a></p> <p>Imaging Window: <b>07:36 – 10:54</b><br/>           Transit: <b>08:34   59°</b></p>  | <p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small;">FOV 3.80 x 2.54° · RA 05hr 54' 51", DEC 01° 47' 10"</p>                          |
| <p><b>LDN 1622</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b></p> <p><b>Camera Rotation - 90°</b><br/>           Frame 01<br/>           RA: <b>05hr 56' 28"</b>DEC: <b>01° 58' 32"</b><br/>           Frame 02<br/>           RA: <b>05hr 54' 08"</b>DEC: <b>01° 58' 35"</b></p> <p>Close Star: SAO-132346 (Anilam)<br/>           Catalog Objects: <a href="#">LDN-1622</a></p> <p>Imaging Window: <b>07:36 – 10:54</b><br/>           Transit: <b>08:34   59°</b></p> | <p style="text-align: center;"><b>C-11 HD: Focal Reducer</b><br/> <b>Composite!</b></p>  <p style="font-size: small;">FOV 1.04 x 1.28° · RA 05hr 55' 18", DEC 01° 58' 34"</p> |
| <p><b>LDN-1622</b><br/>           Config:  C11HD FR ZWO6200MC </p> <p>Type: <b>Bright and Dark Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b><br/>           Coordinates:<br/> <b>05hr 54' 52"</b><br/> <b>01° 49' 51"</b></p> <p>Close Star: SAO-112740(Bellatrix)<br/>           Catalog Objects: <a href="#">LDN-1622</a></p> <p>Imaging Window: <b>07:36 – 10:54</b><br/>           Transit: <b>08:34   59°</b></p>  | <p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small;">FOV 1.04 x 0.70° · RA 05hr 54' 52", DEC 01° 49' 51"</p>                       |




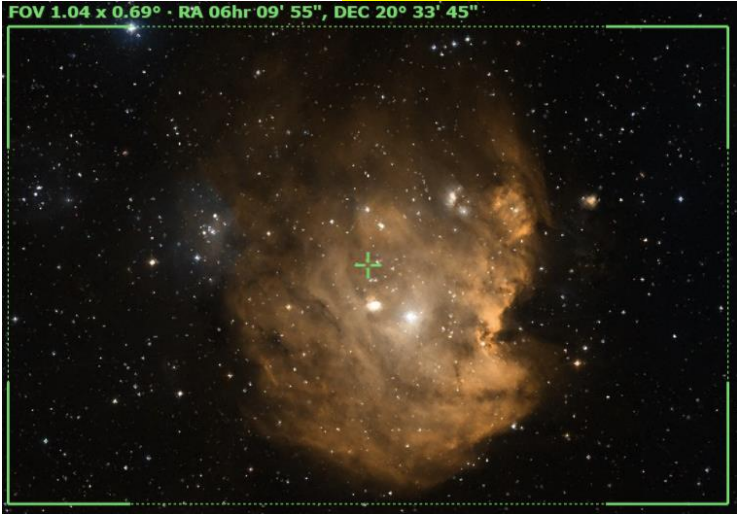

# Prospective Imaging Objects – February

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| <p><b>LDN 1622</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Dark Nebula</b><br/>Peak:<br/>Constellation: <b>Orion</b><br/>Coordinates:<br/><b>05hr 54' 55"</b><br/><b>01° 49' 49"</b></p> <p>Close Star: SAO-132346 (Anilam)<br/>Catalog Objects: <a href="#">LDN-1622</a></p> <p>Imaging Window: <b>07:36 – 10:54</b><br/>Transit: <b>08:34   59°</b></p>                                  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>Angel Nebula (NGC 2170)</b><br/>Config:  C11-<br/>HD FR ZWO6200MC </p> <p>Type: <b>Bright and Dark Nebula</b><br/>Peak:<br/>Constellation: <b>Monoceros</b><br/>Coordinates:<br/><b>06hr 08' 26"</b><br/><b>-06° 25' 24"</b></p> <p>Close Star: SAO-132542 (Saiph)<br/>Catalog Objects: <a href="#">NGC-2170</a></p> <p>Imaging Window: <b>07:36 – 10:19</b><br/>Transit: <b>08:48</b></p> | <p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p> <p style="text-align: center;">FOV 1.04 x 0.70° · RA 06hr 08' 26", DEC -06° 25' 24"</p>    |
| <p><b>Angel Nebula (NGC 2170)</b><br/>Config:  C11-HD  ZWO6200MC </p> <p>Type: <b>Bright and Dark Nebula</b><br/>Peak:<br/>Constellation: <b>Monoceros</b><br/>Coordinates:<br/><b>06hr 08' 26"</b><br/><b>-06° 25' 24"</b></p> <p>Close Star: SAO-132542 (Saiph)<br/>Catalog Objects: <a href="#">NGC-2170</a></p> <p>Imaging Window: <b>07:36 – 10:19</b><br/>Transit: <b>08:48</b></p>        | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Angel Nebula (NGC-2170)<br/>Constellation: Monoceros<br/>Coordinates: Monoceros<br/>[RA=06h 08m 26s DEC=-06deg 25m 24s] [Size=+1.2 x 0.71 arcmin] [Orientation: Right side=+0.40h arc/px] [1=2000px]<br/>James Webb   Lunatic(s) Messier   Messier (000-00-01)   Constellation: Monoceros   NGC-2170  <br/>Config: C-11 HD   ZWO6200MC   QHY136  <br/>Exposure Info: 2x3000/2000   Date: 2020-08-08 18:00</p> |



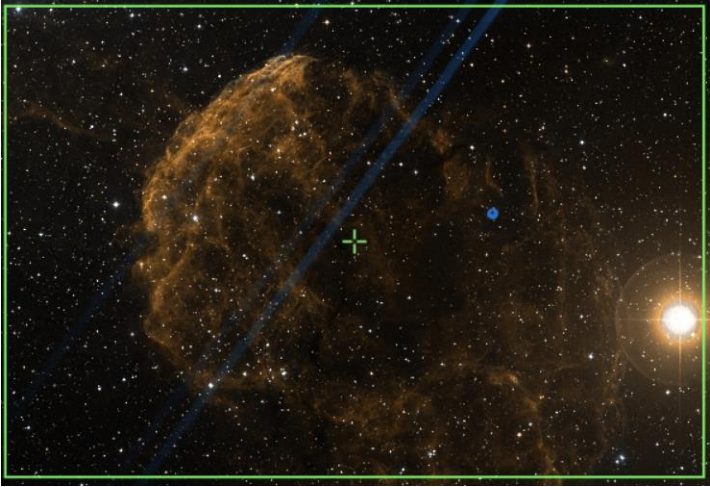
# Prospective Imaging Objects – February

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| <p><b>IC-2162 &amp; SH 2-261</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b><br/>           Coordinates:<br/> <b>06hr 10' 56"</b><br/> <b>16° 32' 17"</b><br/>           Angle: <b>90° East</b></p> <p>Close Star: SAO-78297 (Calix)<br/>           Catalog Objects: <a href="#">IC-2162</a> <a href="#">Sh 2-261</a></p> <p>Imaging Window: <b>07:36 – 11:55</b><br/>           Transit: <b>08:49   72°</b></p> | <p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>     |
| <p><b>Lower's Nebula (Sh 2-261)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b><br/>           Coordinates:<br/> <b>06hr 09' 11"</b><br/> <b>15° 45' 59"</b></p> <p>Close Star: <b>SAO-78297</b> (Calix)<br/>           Catalog Objects: <a href="#">Sh 2-261</a></p> <p>Imaging Window: <b>07:36 – 11:55</b><br/>           Transit: <b>08:49   72°</b></p>   | <p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>   |
| <p><b>Lower's Nebula (Sh 2-261)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b><br/>           Coordinates:<br/> <b>06hr 08' 59"</b><br/> <b>15° 46' 39"</b></p> <p>Close Star: <b>SAO-78297</b> (Calix)<br/>           Catalog Objects: <a href="#">Sh 2-261</a></p> <p>Imaging Window: <b>07:36 – 11:55</b><br/>           Transit: <b>08:49   72°</b></p>   | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  |




# Prospective Imaging Objects – February

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| <p><b>M-35, NGC-2158</b><br/>           Config:  C11-<br/>           HD FR ZWO6200MC </p> <p>Type: <b>Open Cluster Pair</b><br/>           Constellation: <b>Gemini</b><br/>           Coordinates:<br/> <b>06hr 08' 39"</b><br/> <b>24° 14' 48"</b></p> <p>Close Star: <b>SAO-95912</b> (Alhena)<br/>           Catalog Objects: <a href="#">M-35</a>/NGC-2168,<br/>           NGC-2158</p> <p>Imaging Window: <b>07:36 – 12:14</b><br/>           Transit: <b>08:49</b>   <b>81°</b></p> | <p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>   |
| <p><b>Monkey Head (NGC-2174)</b><br/>           Config:  C11-<br/>           HD FR ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b><br/>           Coordinates:<br/> <b>06hr 09' 50"</b><br/> <b>20° 29' 50"</b></p> <p>Close Star: SAO-78297 (Calix)<br/>           Catalog Objects: <a href="#">NGC-2174</a>/Sh 2-252</p> <p>Imaging Window: <b>07:36 – 12:07</b><br/>           Transit: <b>08:50</b>   <b>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><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b><br/>           Coordinates:<br/> <b>06hr 09' 50"</b><br/> <b>20° 29' 50"</b></p> <p>Close Star: SAO-78297 (Calix)<br/>           Catalog Objects: <a href="#">NGC-2174</a>/Sh 2-252</p> <p>Imaging Window: <b>07:36 – 12:07</b><br/>           Transit: <b>08:50</b>   <b>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) <span style="float: right;">James Walker 2024.02.18</span><br/>       Constellation: Orion <span style="float: right;">Location: Orion, 6.2</span><br/>       RA = 06h 09m 50.15s, DEC = 20deg 29' 50" Size = 32.1 x 26.6 arcmin   Pixel scale = 6.446 arcsec/pixel   FL = 2.72mm <span style="float: right;">Config: C-11 HD Astroseek C11-SCD (CR1126)</span><br/>       Program Info: ZWO/Starfire-Gem-3200 (09Dec_186) <span style="float: right;">Program Info: ZWO/Starfire-Gem-3200 (09Dec_186)</span> </p> |




# Prospective Imaging Objects – February

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| <p><b>IC 2162</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b><br/>           Peak:<br/>           Constellation: <b>Orion</b><br/>           Coordinates:<br/> <b>06hr 12' 25"</b><br/> <b>17° 59' 26"</b></p> <p>Close Star: SAO-78297 (Calix)<br/>           Catalog Objects: <a href="#">IC-2162</a></p> <p>Imaging Window: <b>07:36 – 12:05</b><br/>           Transit: <b>08:53   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<br/>           Constellation: Orion<br/>           RA = 06h 12m 25.00s, DEC = +17deg 59' 26.00", Size = 42.3 x 33.85 arcmin, Pixel scale = 0.841 arcsec/pixel</p> <p style="font-size: x-small; text-align: right;">James Voder - 2024-01-21<br/>           Config: C-11 HD Astrocam, CLS-C11, QHY135<br/>           Exposure: 300, 2500000000, Gain: 5200, Offset: 100</p>   |
| <p><b>Jellyfish Nebula (IC 443)</b><br/>           Config: C11-HD   HS  <br/>           ZWO6200MC</p> <p>Type: <b>Supernova Remnant</b><br/>           Peak:<br/>           Constellation: <b>Gemini</b><br/>           Coordinates:<br/> <b>06hr 19' 56"</b><br/> <b>23° 06' 17"</b></p> <p>Close Star: SAO-78297 (Calix)<br/>           Catalog Objects: <a href="#">IC-443</a></p> <p>Imaging Window: <b>07:36 – 12:19</b><br/>           Transit: <b>08:57   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)<br/>           Constellation: Gemini<br/>           RA = 06h 19m 25.00s, DEC = +23deg 06' 17.00", Size = 3.14 x 2.89 deg, Orientation: 84p E of N, Pixel scale = 2.28 arcsec/pixel, FL = 540mm</p> <p style="font-size: x-small; text-align: right;">James Voder - Data(s) 2020-10-21, Location: Chandler, AZ<br/>           Config: C-11HD HyperStar v4, Astrocam, CLS-C11, QHY135<br/>           Exposure: 160, 2100000000, Gain: 5200, Offset: 100</p> |
| <p><b>Jellyfish Nebula (IC 443)</b><br/>           Config:  C11-<br/>           HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Supernova Remnant</b><br/>           Peak:<br/>           Constellation: <b>Gemini</b><br/>           Coordinates:<br/> <b>06hr 16' 59"</b><br/> <b>22° 37' 29"</b></p> <p>Close Star: SAO-78297 (Calix)<br/>           Catalog Objects: <a href="#">IC-443</a></p> <p>Imaging Window: <b>07:36 – 12:19</b><br/>           Transit: <b>08:57   79°</b></p> | <p style="text-align: center;"><b>C11-HD: Focal Reducer</b></p>    |


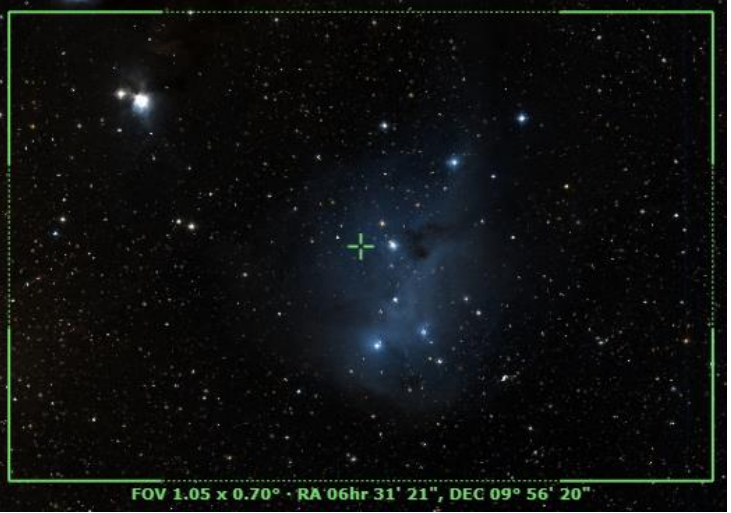

# Prospective Imaging Objects – February

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| <p><b>Jellyfish Nebula (IC 443)</b><br/>           Config:  C11 LF ZWO6200MC </p> <p>Type: <b>Supernova Remnant</b><br/>           Peak:<br/>           Constellation: <b>Gemini</b><br/>           Coordinates:<br/> <b>06hr 16' 51"</b><br/> <b>22° 36' 34"</b></p> <p>Close Star: SAO-78297 (Calix)<br/>           Catalog Objects: <a href="#">IC-443</a></p> <p>Imaging Window: <b>07:36 – 12:19</b><br/>           Transit: <b>08:57   79°</b></p> | <p style="text-align: center;">Primary Focus</p>  <p style="font-size: small;">Jellyfish nebula (IC 443)<br/>           Constellation: Gemini</p> <p style="font-size: x-small; text-align: right;">Location: Chamber 4,2<br/>           Config: C11 Stratus L2 Corrector / OFF T800 Filter / OFF T2<br/>           Exposure Info: 1000ms/50s Gain: 200 (Offset: 100)</p> |
| <p><b>IC-2165</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b><br/>           Peak:<br/>           Constellation: <b>Canis Major</b><br/>           Coordinates:<br/> <b>06hr 21' 43"</b><br/> <b>-12° 59' 12"</b></p> <p>Close Star:<br/>           Catalog Objects: <a href="#">IC-2165</a></p> <p>Imaging Window: <b>*07:36 – 11:44</b><br/>           Transit: <b>09:02   44°</b></p>                               | <p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: x-small; text-align: center;">FOV 0.73 x 0.48° · RA 06hr 21' 43", DEC -12° 59' 12" · 0.28"/px</p>   |
| <p><b>SH 2-249</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>           Peak:<br/>           Constellation: <b>Gemini</b><br/>           Coordinates:<br/> <b>06hr 19' 15"</b><br/> <b>23° 24' 58"</b></p> <p>Close Star: SAO-78297 (Calix)<br/>           Catalog Objects: <a href="#">SH 2-249</a></p> <p>Imaging Window: <b>07:36 – 12:25</b><br/>           Transit: <b>09:02   80°</b></p>                    | <p style="text-align: center;">C-11 HD: Primary Focus</p>   |


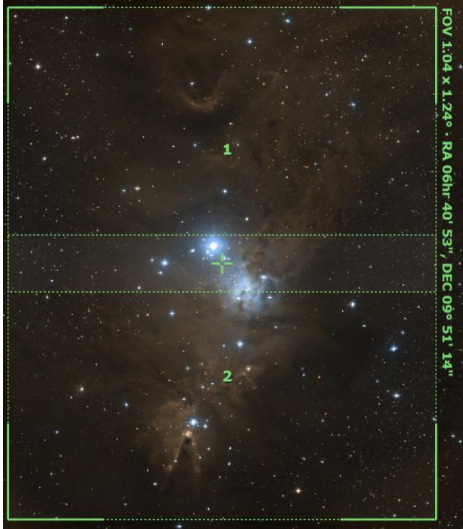
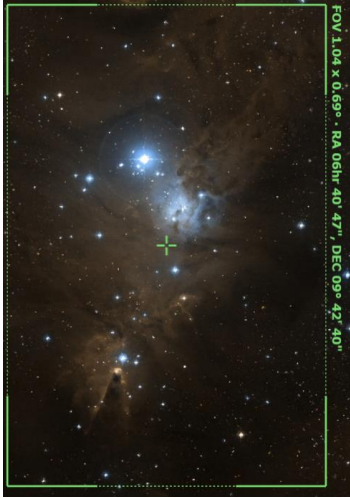
# Prospective Imaging Objects – February

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| <p><b>Rosette Nebula (NGC 2237)</b><br/>           Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Diffuse Nebula</b><br/>           Constellation: <b>Monoceros</b><br/>           Coordinates:<br/> <b>06hr 31' 53.37"</b><br/> <b>04° 50' 45.29"</b></p> <p>Close Star: SAO-95912 (Alhena)<br/>           Catalog Objects: <a href="#">NGC-2237</a> ,NGC-2244</p> <p>Imaging Window: <b>07:36 – 11:43</b><br/>           Transit: <b>09:10   62°</b></p>           | <p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small; text-align: left; margin-left: 5px;">Rosette Nebula (NGC-2237, 06h31m53.37s, 04d50m45.29s)<br/>           C-11 Hyperstar   1600iso   1.52min</p> <p style="font-size: small; text-align: right; margin-right: 5px;">Barnes, Tyler<br/>           2011-12-15</p> |
| <p><b>Rosette Nebula (NGC 2237)</b><br/>           Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>           Peak:<br/>           Constellation: <b>Monoceros</b><br/>           Coordinates:<br/> <b>06hr 32' 01"</b><br/> <b>04° 59' 28"</b></p> <p>Close Star: SAO-95912 (Alhena)<br/>           Catalog Objects: <a href="#">NGC-2237</a></p> <p>Imaging Window: <b>07:36 – 11:43</b><br/>           Transit: <b>09:10   62°</b></p> | <p style="text-align: center;"><b>C-11 HD: <b>Focal Reducer</b></b></p>   |
| <p><b>Rosette Nebula (NGC 2237)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>           Peak:<br/>           Constellation: <b>Monoceros</b><br/>           Coordinates:<br/> <b>06hr 32' 02"</b><br/> <b>04° 58' 14"</b></p> <p>Close Star: SAO-95912 (Alhena)<br/>           Catalog Objects: <a href="#">NGC-2237</a></p> <p>Imaging Window: <b>07:36 – 11:43</b><br/>           Transit: <b>09:10   62°</b></p>            | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |

# Prospective Imaging Objects – February




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| <p><b>IC-2169</b><br/>           Config: C11   HS   ZWO6200MC</p> <p>Type: <b>Bright Nebula</b><br/>           Peak:<br/>           Constellation: <b>Monoceros</b><br/>           Coordinates:<br/> <b>06hr 36' 00"</b><br/> <b>10° 16' 17"</b></p> <p>Close Star: SAO-95912 (Alhena)<br/>           Catalog Objects: <a href="#">IC-2169</a></p> <p>Imaging Window: <b>07:36 – 12:01</b><br/>           Transit: <b>09:11   80°</b></p>                  | <p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>     |
| <p><b>IC 2169</b><br/>           Config:  C11-<br/>           HD FR ZWO6200MC </p> <p>Type: <b>Bright Nebula</b><br/>           Peak:<br/>           Constellation: <b>Monoceros</b><br/>           Coordinates:<br/> <b>06hr 31' 21"</b><br/> <b>09° 56' 20"</b></p> <p>Close Star: SAO-95912 (Alhena)<br/>           Catalog Objects: <a href="#">IC-2169</a></p> <p>Imaging Window: <b>07:36 – 12:01</b><br/>           Transit: <b>09:11   80°</b></p> | <p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>   |
| <p><b>IC 2169</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Bright Nebula</b><br/>           Peak:<br/>           Constellation: <b>Monoceros</b><br/>           Coordinates:<br/> <b>06hr 31' 36"</b><br/> <b>09° 58' 16"</b></p> <p>Close Star: SAO-95912 (Alhena)<br/>           Catalog Objects: <a href="#">IC-2169</a></p> <p>Imaging Window: <b>07:36 – 12:01</b><br/>           Transit: <b>09:11   80°</b></p>                     | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  |

# Prospective Imaging Objects – February




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| <p><b>Hubble's Variable Nebula</b> (NGC 2261)<br/>Config:  C11HD  ZWO6200MC </p> <p>Type: <b>Reflection Nebula</b><br/>Constellation: <b>Monoceros</b><br/>Coordinates:<br/><b>06hr 39' 12"</b><br/><b>08° 45' 00"</b></p> <p>Close Star: SAO-95912 (Alhena)<br/>Catalog Objects: <a href="#">NGC-2261</a></p> <p>Imaging Window: <b>07:36 – 12:05</b><br/>Transit: <b>09:19   65°</b></p>  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>                  |
| <p><b>Christmas Tree &amp; Cone</b><br/>Config:  C11-<br/>HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b></p> <p>Coordinates:<br/>Pane 1: <b>06hr 40' 53", 10° 07' 47"</b><br/>Pane 2, <b>06hr 40' 53", 09° 34' 40"</b></p> <p>Close Star: SAO-95912 (Alhena)<br/>Catalog Objects: <a href="#">NGC-2264</a>/Sh 2-273</p> <p>Imaging Window: <b>07:36 – 12:10</b><br/>Transit: <b>09:21   67°</b></p>                         | <p style="text-align: center;"><b>C-11 HD: Focal Reducer<br/>Composite!</b></p>  |
| <p><b>Christmas Tree &amp; Cone</b><br/>Config:  C11-<br/>HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>Peak:<br/>Constellation: <b>Monoceros</b><br/>Coordinates:<br/><b>06hr 40' 47"</b><br/><b>09° 42' 40"</b><br/>Angle: <b>90° East</b><br/>Close Star: SAO-95912 (Alhena)<br/>Catalog Objects: <a href="#">NGC-2264</a>/Sh 2-273</p> <p>Imaging Window: <b>07:36 – 12:10</b><br/>Transit: <b>09:21   67°</b></p> | <p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>                |






# Prospective Imaging Objects – February

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| <p><b>Christmas Tree Cluster (NGC 2264)</b><br/>           Config:  C1 LF ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>           Peak:<br/>           Constellation: <b>Monoceros</b><br/>           Coordinates:<br/> <b>06hr 40' 58.74"</b><br/> <b>09° 53' 32.69"</b></p> <p>Close Star: SAO-95912 (Alhena)<br/>           Catalog Objects: <a href="#">NGC-2264</a>/Sh 2-273</p> <p>Imaging Window: <b>07:36 – 12:10</b><br/>           Transit: <b>09:21   67°</b></p>                                   | <p style="text-align: center;"><b>Primary Focus</b></p>  <p style="text-align: center;">NGC 2264: Christmas Tree Cluster <span style="float: right;">James Yoder, 2015.01, PS</span></p>   |
| <p><b>Christmas Tree &amp; Cone</b><br/>           Config:  C6<b>FR</b> ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>           Peak:<br/>           Constellation: <b>Monoceros</b><br/>           Coordinates:<br/> <b>06hr 40' 51.6"</b><br/> <b>09° 40' 25.2"</b><br/>           Angle: <b>90° East</b></p> <p>Close Star: SAO-95912 (Alhena)<br/>           Catalog Objects: <a href="#">NGC-2264</a>/Sh 2-273</p> <p>Imaging Window: <b>07:36 – 12:10</b><br/>           Transit: <b>09:21   67°</b></p> | <p style="text-align: center;"><b>C-6 HD: Focal Reducer</b></p>  <p style="text-align: center;">NGC-2264 (Cone &amp; Christmas Tree Nebula) <span style="float: right;">James Yoder (Duesen) 2024.01.26-27   Location: Chandler, AZ</span></p> <p style="font-size: small;">Constellation: Monoceros<br/>     [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   FE=1166mm]<br/>     Config:  C-6HD  0.83 Focal Reducer   OPT Reddot Triad Ultra   ZWO6200MC  <br/>     Exposure Info:   133.0m@2min   Gain: 100  </p> |
| <p><b>Cone Nebula-1 (NGC 2264)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>           Peak:<br/>           Constellation: <b>Monoceros</b><br/>           Coordinates:<br/> <b>06hr 41' 07"</b><br/> <b>09° 27' 52"</b></p> <p>Close Star: SAO-95912 (Alhena)<br/>           Catalog Objects: <a href="#">NGC-2264</a>/Sh 2-273</p> <p>Imaging Window: <b>07:36 – 12:10</b><br/>           Transit: <b>09:21   67°</b></p>  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |




# Prospective Imaging Objects – February

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| <p><b>M-41</b> (NGC 2287)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b><br/>Constellation: <b>Canis Major</b><br/>Coordinates:<br/><b>06hr 46' 09"</b><br/><b>20° 47' 35"</b></p> <p>Close Star: <b>SAO-151881</b> (Sirius)<br/>Catalog Objects: <a href="#">M-41</a>/NGC 2287</p> <p>Imaging Window: *<b>07:36 – 11:12</b><br/>Transit: <b>09:26</b>   <b>36°</b></p>        | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>M-50</b> (NGC 2323)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b><br/>Constellation: <b>Monoceros</b><br/>Coordinates:<br/><b>07hr 02' 48"</b><br/><b>-08° 22' 33"</b></p> <p>Close Star: <b>SAO-151881</b> (Sirius)<br/>Catalog Objects: <a href="#">M-50</a>/NGC 2323</p> <p>Imaging Window: *<b>07:36 – 12:45</b><br/>Transit: <b>09:42</b>   <b>48°</b></p>         | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>    |
| <p><b>Seagull Nebula (IC-2177)</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>Peak:<br/>Constellation: <b>Monoceros</b><br/>Coordinates:<br/><b>07hr 06' 20"</b><br/><b>-11° 06' 56"</b></p> <p>Close Star: SAO-151881 (Sirius)<br/>Catalog Objects: <a href="#">IC-2177</a></p> <p>Imaging Window: *<b>07:36 – 12:37</b><br/>Transit: <b>09:44</b>   <b>46°</b></p> | <p style="text-align: center;"><b>C-11 HD: HyperStar v4 - 90° Rotation</b></p>  <p><small>Seagull Nebula (IC-2177, NGC-2327, NGC-2335, NGC-2343)<br/>Constellation: Monoceros<br/>RA = 07h 06m 17.0s, DEC = -11deg 07' 27.2" (Sep = 2016, 140 arcsec, Orientation: 90deg E of N, Pixel scale = 2.276 arcsec/pixel, F1-543nm)<br/>James VanDer Brink 2022 01.09, 10, 11, 13, 17   Location: CHARLIE-A2  <br/>Config: C-11HD   HyperStar V4   Operating Location: 0301236  <br/>Equipment Info: 387Prime/Star   Gain: 3200   Q850e   180</small></p> |




# Prospective Imaging Objects – February

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| <p><b>Seagull Nebula (IC 2177)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>           Peak:<br/>           Constellation: <b>Monoceros</b><br/>           Coordinates:<br/> <b>07hr 04' 47"</b><br/> <b>-10° 27' 49"</b></p> <p>Close Star: SAO-151881 (Sirius)<br/>           Catalog Objects: <a href="#">IC-2177</a></p> <p>Imaging Window: *07:36 – 12:37<br/>           Transit: 09:44   46°</p>                   | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>Hourglass Nebula (NGC-2346)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b><br/>           Peak:<br/>           Constellation: <b>Monoceros</b><br/>           Coordinates:<br/> <b>07hr 09' 23"</b><br/> <b>00° 48' 22"</b></p> <p>Close Star: SAO-115756 (Procyon)<br/>           Catalog Objects: <a href="#">NGC-2346</a></p> <p>Imaging Window: *07:36 – 12:29<br/>           Transit: 09:49   56°</p>             | <p style="text-align: center;"><b>C-11 HD: Primary Focus x2</b></p>  <p style="font-size: small;">Planetary Nebula NGC-2346<br/> <small>© Constellation: Monoceros<br/>       SAO 115756 DEC -08:54:47.70; Star: 21.7, 17.1; width: 0.8mm; height: 5.475; Pixel Size: 3.278 arcsec; filter: - 200nm</small></p> |
| <p><b>Integral Sign Galaxy (UGC 3697)</b><br/>           Config:  C11HD FR ZWO6200MC </p> <p>Type: <b>Galaxy Group</b><br/>           Constellation: <b>Camelopardalis</b><br/>           Coordinates:<br/> <b>07hr 11' 40"</b><br/> <b>71° 56' 04"</b></p> <p>Close Star: <b>SAO-40186</b> (Capella)<br/>           Catalog Objects: <a href="#">UGC-3697</a>, UGC-3714, UGC-3701</p> <p>Imaging Window: 07:36 – 12:52<br/>           Transit: 09:51   52°</p> | <p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>   |




# Prospective Imaging Objects – February

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| <p><b>Integral Sign Galaxy (UGC 3697)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b><br/>           Constellation: <b>Camelopardalis</b><br/>           Coordinates:<br/> <b>07hr 11' 50"</b><br/> <b>71° 48' 14"</b></p> <p>Close Star: <b>SAO-40186</b> (Capella)<br/>           Catalog Objects: <a href="#">UGC-3697</a>, UGC-3714, UGC-3701</p> <p>Imaging Window: <b>07:36 – 12:52</b><br/>           Transit: <b>09:51   52°</b></p>              | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>Thor's Helmet (NGC-2359)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Diffuse Nebula</b><br/>           Constellation: <b>Canis Major</b><br/>           Coordinates:<br/> <b>07h 18' 26.223"</b><br/> <b>-13° 15' 29.563"</b></p> <p>Close Star: SAO-151881 (Sirius)<br/>           Catalog Objects: <a href="#">NGC-2359</a>/<br/>           Sh2-298/ LBN1041</p> <p>Imaging Window: <b>*07:36 – 12:37</b><br/>           Transit: <b>09:58   43°</b></p> | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Thor's Helmet (NGC 2359)<br/>           Constellation: Canis Major</p> <p style="font-size: x-small; text-align: right;">Janis Yoda - 2018.11.17<br/>           Location: University Research Station, NJ<br/>           Config: C11, Svbony LF Controller, SBX1701<br/>           Exposure Info: 100x300s (Gain: 3000) (Offset: 180)</p>  |
| <p><b>Candy Wrapper (NGC-2371)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b><br/>           Constellation: <b>Gemini</b><br/>           Coordinates:<br/> <b>07° 25' 34"</b><br/> <b>29° 29' 18"</b></p> <p>Close Star: SAO-151881 (Sirius)<br/>           Catalog Objects: <a href="#">NGC-2371</a></p> <p>Imaging Window: <b>07:36 – 01:40</b><br/>           Transit: <b>10:05   86°</b></p>   | <p style="text-align: center;"><b>C-11 HD: Primary Focus x2</b></p>  <p style="font-size: x-small;">Candy Wrapper (NGC 2371)<br/>           Constellation: Gemini</p> <p style="font-size: x-small; text-align: right;">Janis Yoda - 2018.11.17<br/>           Location: University Research Station, NJ<br/>           Config: C11, Svbony LF Controller, SBX1701<br/>           Exposure Info: 100x300s (Gain: 3000) (Offset: 180)</p> |

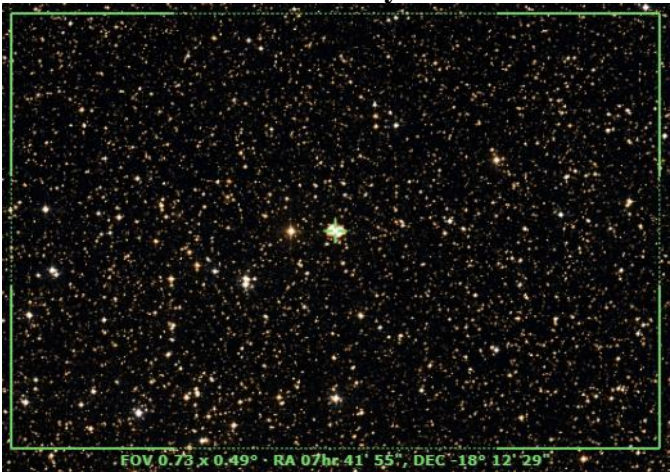
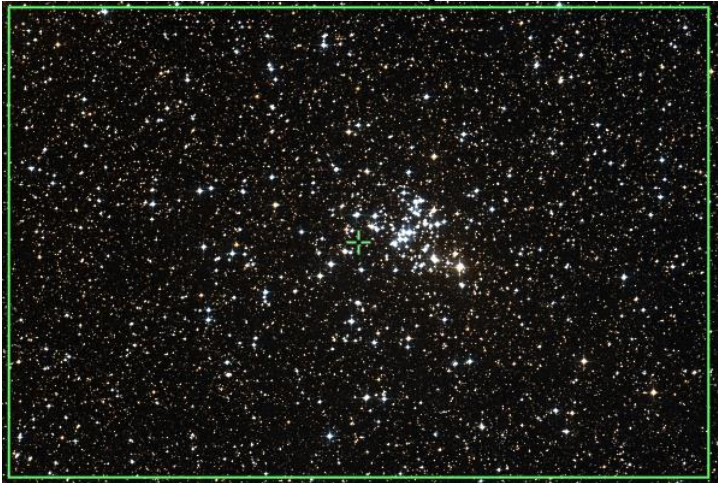

# Prospective Imaging Objects – February

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| <p><b>Medusa Nebula (Abell 21)</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Gemini</b><br/>Coordinates:<br/><b>07h 29' 00"</b><br/><b>13° 15' 00"</b></p> <p>Close Star: <b>SAO-115756 (Procyon)</b><br/>Catalog Objects: <a href="#">Abell 21</a></p> <p>Imaging Window: <b>07:36 – 01:09</b><br/>Transit: <b>10:09   70°</b></p> | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Abell-21 (Medusa Nebula)<br/>Constellation: Gemini<br/>RA = 7h 29m 54.9s, DEC = +13deg 15' 28.4"   Size = 18.7 x 26.1 arcmin   Orientation: 0.5deg E of N   Pixel scale = 0.579 arcsec/pixel   FL = 2726mm  <br/>James Yoder   Duxco   2022 Feb 25 20:27:34 2020-02-25-01   Location: Chandler, AZ  <br/>Config:  C-11 HD ESP1 Radux Ultra Filter   OIV1128  <br/>Exposure Info: 1040sec@5min, Gain: 200, Offset: 101</p> |
| <p><b>Eskimo Nebula (NGC-2392)</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Gemini</b><br/>Coordinates:<br/><b>07h 29' 11"</b><br/><b>20° 54' 45"</b></p> <p>Close Star: <b>SAO-79666 (Pollux)</b><br/>Catalog Objects: <a href="#">NGC-2392</a></p> <p>Imaging Window: <b>07:36 – 01:28</b><br/>Transit: <b>10:09   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)<br/>Constellation: Gemini<br/>RA = 07h 29m 11.26s, DEC = +20deg 54' 33.4"   Size = 18.5 x 13.9 arcmin   Orientation: 0.3deg E of N   Pixel scale = 0.278 arcsec/pixel   FL = 2800mm  <br/>James Yoder   Duxco   2020 12-09   Location: Chandler, AZ  <br/>Config:  C-11 HD ESP1 Total Ultra   ZWO6200MC  <br/>Exposure Info: 144 frames@2min   Gain: 100   Offset: 50</p>                       |
| <p><b>M-47 (NGC-2422)</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Puppis</b><br/>Coordinates:<br/><b>07h 36' 36"</b><br/><b>-14° 32' 19"</b></p> <p>Close Star: <b>SAO-79666 (Pollux)</b><br/>Catalog Objects: <a href="#">M-47</a>/NGC-2422</p> <p>Imaging Window: <b>*07:36 – 12:53</b><br/>Transit: <b>10:16   42°</b></p>         | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |



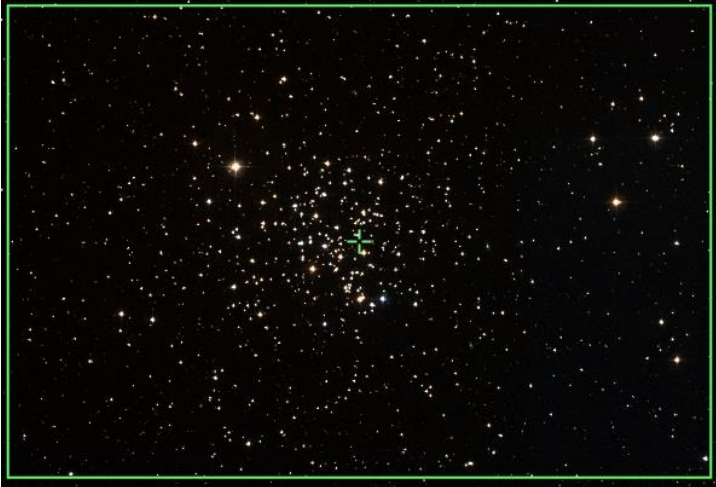
# Prospective Imaging Objects – February

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| <p><b>NGC-2403</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Camelopardalis</b><br/>Coordinates:<br/><b>07h 36' 51"</b><br/><b>65° 36' 06"</b></p> <p>Close Star: <b>SAO-79666</b> (Pollux)<br/>Catalog Objects: <a href="#">NGC-2403</a></p> <p>Imaging Window: <b>07:36 – 01:52</b><br/>Transit: <b>10:17   58°</b></p>                      | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">Galaxy NGC-2403 (Caldwell 7)<br/>Constellation: Camelopardalis<br/>Size: 10.2x6.5 (arc min)   13.2x10.2 (arc min)   13.2x10.2 (arc min)   13.2x10.2 (arc min)   13.2x10.2 (arc min)</p> |
| <p><b>Intergalactic Wanderer (NGC-2419)</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Lynx</b><br/>Coordinates:<br/><b>07h 38' 09"</b><br/><b>38° 52' 57"</b></p> <p>Close Star: <b>SAO-79666</b> (Pollux)<br/>Catalog Objects: <a href="#">NGC-2419</a></p> <p>Imaging Window: <b>07:36 – 02:05</b><br/>Transit: <b>10:18   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)<br/>Constellation: Lynx<br/>Size: 10.2x6.5 (arc min)   13.2x10.2 (arc min)   13.2x10.2 (arc min)   13.2x10.2 (arc min)   13.2x10.2 (arc min)</p>     |
| <p><b>M-46 (NGC-2437)</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster with PN</b></p> <p>Constellation: <b>Puppis</b><br/>Coordinates:<br/><b>07h 41' 45"</b><br/><b>-14° 46' 43"</b></p> <p>Close Star: <b>SAO-151881</b> (Sirius)<br/>Catalog Objects: <a href="#">M-46</a>/NGC-2437,<br/>NGC-2438</p> <p>Imaging Window: <b>*07:51 – 12:53</b><br/>Transit: <b>10:21   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<br/>Constellation: Puppis<br/>Size: 10.2x6.5 (arc min)   13.2x10.2 (arc min)   13.2x10.2 (arc min)   13.2x10.2 (arc min)   13.2x10.2 (arc min)</p>                           |

# Prospective Imaging Objects – February




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|---|---|
| <p><b>Bow-Tie Nebula</b> (NGC-2440)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Puppis</b><br/>Coordinates:<br/><b>07° 41' 55"</b><br/><b>-18° 12' 29"</b></p> <p>Close Star: <b>SAO-151881</b> (Sirius)<br/>Catalog Objects: <a href="#">NGC-2440</a></p> <p>Imaging Window: <b>*08:15 – 12:33</b><br/>Transit: <b>10:22   38°</b></p>           | <p><b>C-11 HD: Primary Focus x2</b></p>  |
| <p><b>Butterfly Cluster</b> (M-93, NGC-2447)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Puppis</b><br/>Coordinates:<br/><b>07h 44' 46"</b><br/><b>-23° 51' 52"</b></p> <p>Close Star: <b>SAO-151881</b> (Sirius)<br/>Catalog Objects: <a href="#">M-93</a>/NGC-2447</p> <p>Imaging Window: <b>*09:04 – 11:48</b><br/>Transit: <b>10:24   33°</b></p> | <p><b>C-11 HD: Primary Focus</b></p>                                       |
| <p><b>M-48</b> (NGC-2548)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Hydra</b><br/>Coordinates:<br/><b>08h 13' 46"</b><br/><b>-05° 46' 05"</b></p> <p>Close Star: <b>SAO-115756</b> (Procyon)<br/>Catalog Objects: <a href="#">M-48</a>/NGC-2548</p> <p>Imaging Window: <b>09:22 – 12:30</b><br/>Transit: <b>10:53   51°</b></p>                     | <p><b>C-11 HD: Primary Focus</b></p>                                      |

# Prospective Imaging Objects – February




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| <p><b>NGC-2610</b><br/>           Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Hydra</b><br/>           Coordinates:<br/> <b>08h 33' 23"</b><br/> <b>-16° 08' 55"</b></p> <p>Close Star: <b>SAO-151881</b> (Sirius)<br/>           Catalog Objects: <a href="#">NGC-2610</a><br/>           Imaging Window: *<b>08:52 – 01:37</b><br/>           Transit: <b>11:13   41°</b></p>            | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>    |
| <p><b>Beehive Cluster</b> (NGC-2632)<br/>           Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Cancer</b><br/>           Coordinates:<br/> <b>08h 39' 59"</b><br/> <b>19° 39' 01"</b></p> <p>Close Star: <b>SAO-115756</b> (Procyon)<br/>           Catalog Objects: <a href="#">M-44</a>/NGC-2632</p> <p>Imaging Window: <b>08:10 – 02:36</b><br/>           Transit: <b>11:20   76°</b></p> | <p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>    |
| <p><b>M-67</b> (NGC-2682)<br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Open Cluster</b></p> <p>Constellation: <b>Cancer</b><br/>           Coordinates:<br/> <b>08h 51' 18"</b><br/> <b>11° 48' 60"</b></p> <p>Close Star: <b>SAO-115756</b> (Procyon)<br/>           Catalog Objects: <a href="#">M-67</a>/NGC-2682</p> <p>Imaging Window: <b>08:41 – 02:27</b><br/>           Transit: <b>11:31   68°</b></p>                  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  |





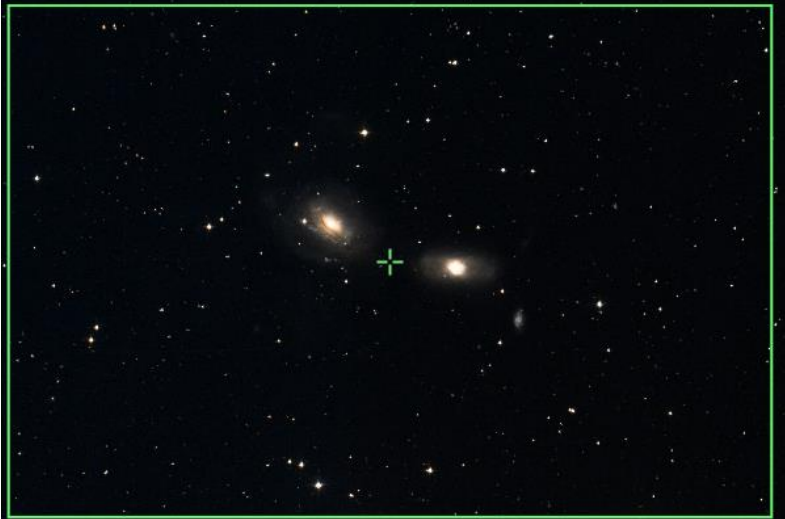
# Prospective Imaging Objects – February

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| <p><b>Helix Galaxy (NGC-2685)</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Ursa Major</b><br/>Coordinates:<br/><b>08h 55' 14"</b><br/><b>58° 42' 24"</b></p> <p>Close Star: <b>SAO-27876</b> (Merak)<br/>Catalog Objects: <a href="#">NGC-2685</a></p> <p>Imaging Window: <b>07:52 – 03:25</b><br/>Transit: <b>11:35   65°</b></p>                                  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>NGC-2903</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Leo</b><br/>Coordinates:<br/><b>09h 32' 08.949"</b><br/><b>21° 30' 37.772"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)<br/>Catalog Objects: <a href="#">NGC-2903</a></p> <p>Imaging Window: <b>08:58 – 03:32</b><br/>Transit: <b>12:12   78°</b></p>  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">NGC-2903<br/>Barred Spiral Galaxy in Leo</p> <p style="text-align: right; font-size: small;">James Yoder<br/>2017.02.24</p>  |
| <p><b>Bode's Cigar (M81 &amp; M82)</b><br/>Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Galaxy Pair</b><br/>Peak:</p> <p>Constellation: <b>Ursa Major</b><br/>Coordinates:<br/><b>09hr 54' 02"</b><br/><b>68° 53' 32"</b></p> <p>Close Star: <b>SAO-15384</b><br/>Catalog Objects: M-81 &amp; <a href="#">M-82</a></p> <p>Imaging Window: <b>09:25 – 03:52</b><br/>Transit: <b>12:35   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: 2020-12-05, 2020-12-07   Location: Chandler, AZ<br/>Gear:  C11HD HyperStar v4 LPS-53, C11M-C11, QHY112E<br/>Exposure Info: 600img/10sec, 24img/10sec   Gain: 3200   QHY112E</p> <p style="font-size: x-small;">  RA = 09h 54m 01.89s DEC = +68deg 53' 43.77"   Size = 3.14x 2.09 deg   Orientation: 3.61deg E of N   Pixel scale = 2.28 arcsec/pixel   FL=540mm  </p> |




# Prospective Imaging Objects – February

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| <p><b>Bode's Cigar (M81 &amp; M82)</b><br/>           Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxy Pair</b><br/>           Constellation: <b>Ursa Major</b><br/>           Coordinates:<br/>           RA: <b>09hr 55' 40"</b> DEC: <b>69° 18' 39"</b><br/> <b>90° Rotation</b></p> <p>Close Star: <b>SAO-15384</b><br/>           Catalog Objects: M-81 &amp; <a href="#">M-82</a></p> <p>Imaging Window: <b>09:25 – 03:52</b><br/>           Transit: <b>12:35   54°</b></p> | <p><b>C-11 HD: Focal Reducer</b></p>    |
| <p><b>Bode's Nebula (M-81)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b><br/>           Constellation: <b>Ursa Major</b><br/>           Coordinates:<br/> <b>09h 55' 24.184"</b><br/> <b>69° 05' 18.969"</b></p> <p>Close Star: <b>SAO-15384</b><br/>           Catalog Objects: M-81/<a href="#">NGC-3031</a></p> <p>Imaging Window: <b>09:21 – 03:55</b><br/>           Transit: <b>12:35   54°</b></p>  | <p><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>Cigar Galaxy (M-82)</b><br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Ursa Major</b><br/>           Coordinates:<br/> <b>09h 55' 57.451"</b><br/> <b>69° 42' 37.646"</b></p> <p>Close Star: <b>SAO-15384</b><br/>           Catalog Objects: <a href="#">M-82</a>/NGC-3034</p> <p>Imaging Window: <b>09:25 – 03:52</b><br/>           Transit: <b>12:35   54°</b></p>   | <p><b>C-11 HD: Primary Focus</b></p>  |




# Prospective Imaging Objects – February

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| <p><b>Spindel Galaxy (NGC-3115)</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Sextans</b><br/>Coordinates:<br/><b>10h 05' 21"</b><br/><b>-07° 47' 09"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)<br/>Catalog Objects: <a href="#">NGC-3115</a></p> <p>Imaging Window: <b>*09:44 – 03:50</b><br/>Transit: <b>12:44   49°</b></p>                            | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">Spindle Galaxy (NGC-3115)<br/>© 2024 Starizona</p>      |
| <p><b>Powder keg Galaxy (UGC-5470)</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Leo</b><br/>Coordinates:<br/><b>10h 08' 27"</b><br/><b>12° 19' 49"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)<br/>Catalog Objects: <a href="#">UGC-5470</a></p> <p>Imaging Window: <b>09:57 – 03:45</b><br/>Transit: <b>12:48   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)<br/>© 2024 Starizona</p> |
| <p><b>NGC-3166 &amp; NGC-3169</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy pair</b></p> <p>Constellation: <b>Sextans</b><br/>Coordinates:<br/><b>10h 14' 01"</b><br/><b>03° 25' 51"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)<br/>Catalog Objects: <a href="#">NGC-3166</a>, <a href="#">NGC-3169</a></p> <p>Imaging Window: <b>10:32 – 03:20</b><br/>Transit: <b>12:53   60°</b></p> | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |




# Prospective Imaging Objects – February

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| <p><b>Hickson 44</b> (NGC-3190, 3189,)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Leo</b><br/>Coordinates:<br/><b>10h 17' 57"</b><br/><b>21° 49' 11"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)<br/>Catalog Objects: <a href="#">NGC-3189</a>, 3190, 3185, 3193, 3187, PGC-2806871</p> <p>Imaging Window: <b>09:43 – 04:18</b><br/>Transit: <b>12:57   79°</b></p> | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;"><small>Hickson-44 Galaxy Cluster (Aip-316)</small></p> |
| <p><b>NGC-3184</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Face-on Spiral Galaxy</b></p> <p>Constellation: <b>Ursa Major</b><br/>Coordinates:<br/><b>10h 18' 17"</b><br/><b>41° 25' 24"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)<br/>Catalog Objects: <a href="#">NGC-3184</a></p> <p>Imaging Window: <b>09:14 – 04:47</b><br/>Transit: <b>12:58   82°</b></p>  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;"><small>Barred Spiral Galaxy NGC-3184</small></p>      |
| <p><b>NGC-3227 &amp; NGC-3226</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Interacting Galaxies</b></p> <p>Constellation: <b>Leo</b><br/>Coordinates:<br/><b>10h 23' 29"</b><br/><b>19° 53' 07"</b></p> <p>Close Star: <b>SAO-60178</b> (Castor)<br/>Catalog Objects: <a href="#">NGC-3227</a>, NGC-3226</p> <p>Imaging Window: <b>09:52 – 04:20</b><br/>Transit: <b>01:03   76°</b></p>                          | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>    |



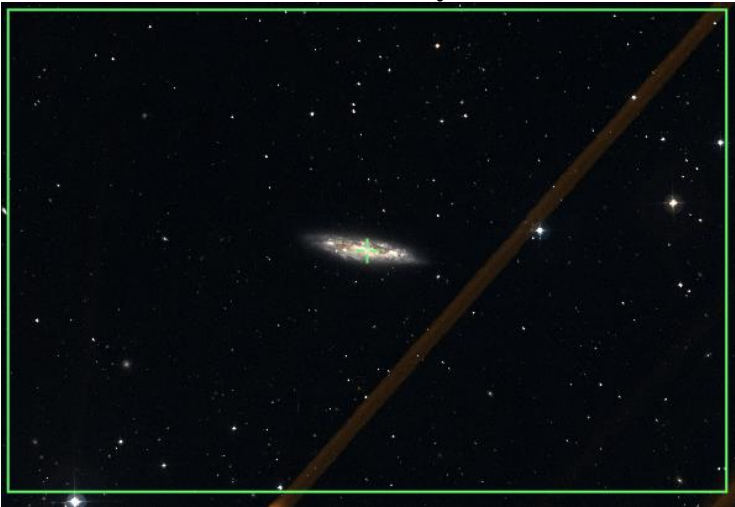
# Prospective Imaging Objects – February

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| <p><b>Ghost of Jupiter</b> (NGC-3242)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Hydra</b><br/>Coordinates:<br/><b>10h 24' 46"</b><br/><b>-18° 38' 31"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)<br/>Catalog Objects: <a href="#">NGC-3242</a></p> <p>Imaging Window: *<b>11:04 – 03:09</b><br/>Transit: <b>01:04   38°</b></p> | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">NGC-3242 (Ghost of Jupiter)<br/>Constellation: Hydra<br/>RA = 10h 24m 44.7s, DEC = -18deg 38' 31.4"   Size = 18.5 x 13.9 arcmin   Orientation: -0.1deg E of N   Pixel scale = 0.278 arcsec/pixel   FL=2000mm<br/>James Voder   Dates: 2020 12 09 18   Location: Chandler, AZ<br/>Config:  C-11 HD KOPT Triad Ultra   ZWO6200MC <br/>Exposure Info:   36 fms@2min   Gain: 100   OffSet: 50  </p>                   |
| <p><b>Galaxy Group 2574</b><br/>Config: <b>C11-HD   HS   ZWO6200MC</b></p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Leo</b><br/>Coordinates:<br/><b>10h 28' 40"</b><br/><b>68° 26' 14"</b></p> <p>Close Star: <b>SAO-27876</b> (Merak)<br/>Catalog Objects: <a href="#">IC-2574</a></p> <p>Imaging Window: <b>09:50 – 04:32</b><br/>Transit: <b>01:08   55°</b></p>         | <p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  <p style="font-size: small; text-align: center;">FOV 3.81 x 2.54° · RA 10hr 12' 10", DEC 69° 02' 51"</p>   |
| <p><b>Coddington's Nebula</b> (IC-2574)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Leo</b><br/>Coordinates:<br/><b>10h 28' 40"</b><br/><b>68° 26' 14"</b></p> <p>Close Star: <b>SAO-27876</b> (Merak)<br/>Catalog Objects: <a href="#">IC-2574</a></p> <p>Imaging Window: <b>09:50 – 04:32</b><br/>Transit: <b>01:08   55°</b></p>  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">Coddington Nebula (IC-2574)<br/>Constellation: Ursa Major<br/>RA = 10h 28m 41.9s, DEC = -68deg 26' 48.2"   Size = 32.3 x 23.4 arcmin   Orientation: 0.026deg E of N   Pixel scale = 0.452 arcsec/pixel   FL=2720mm<br/>James Voder   Dates: 2022 04 01 - 2022 04 08   Location: Chandler, AZ<br/>Config:  C-11 HD (Bader Skyglow)   QHY128c <br/>Exposure Info:   2000fms@4min   Gain: 3200   OffSet: 180  </p> |


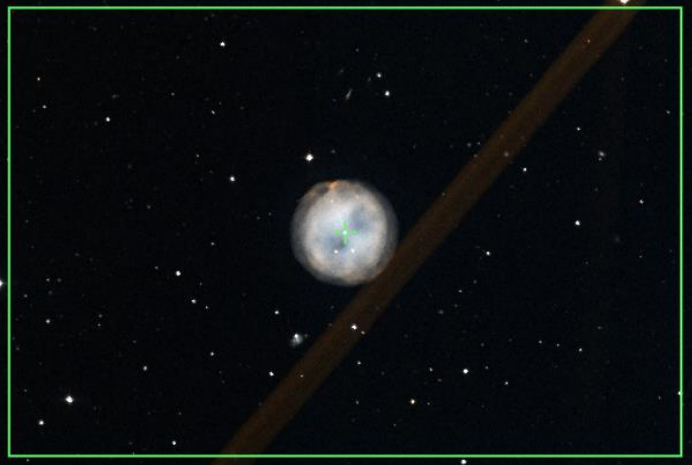

# Prospective Imaging Objects – February

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| <p><b>Leo Galaxy Group</b> (M-96, M95 et al.)<br/>           Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxy Grouping</b><br/>           Constellation: <b>Leo</b><br/>           Coordinates:<br/> <b>10h 47' 23"</b><br/> <b>12° 23' 59"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)<br/>           Catalog Objects: <a href="#">M-96</a>, M95, NGC3389, NGC3384, M105</p> <p>Imaging Window: <b>10:36 – 04:22</b><br/>           Transit: <b>01:26   68°</b></p> | <p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>     |
| <p><b>M-95, M-96</b> (NGC-3351, 3368)<br/>           Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Galaxy Pair</b></p> <p>Constellation: <b>Leo</b><br/>           Coordinates:<br/> <b>10h 45' 20"</b><br/> <b>11° 44' 30"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)<br/>           Catalog Objects: <a href="#">M-95</a>, M-96</p> <p>Imaging Window: <b>10:34 – 04:19</b><br/>           Transit: <b>01:23   68°</b></p>                                       | <p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>   |
| <p><b>Leo Trio 2</b> (NGC-3379, 3384, 3389)<br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Trio of Galaxies</b></p> <p>Constellation: <b>Leo</b><br/>           Coordinates:<br/> <b>10h 48' 07.227"</b><br/> <b>12° 33' 52.943"</b></p> <p>Close Star: <b>SAO-98967</b> (Regulus)<br/>           Catalog Objects: <a href="#">M-105</a>/NGC3379, NGC-3384, NGC-3389</p> <p>Imaging Window: <b>10:35 – 04:26</b><br/>           Transit: <b>01:27   69°</b></p>        | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  |

# Prospective Imaging Objects – February



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| <p><b>Ambartsumian’s Knot et al.</b><br/>(NGC-3561, 3558, 3553, 3550, etc.)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Ursa Major</b><br/>Coordinates:<br/><b>11h 10’ 43”</b><br/><b>28° 41’ 41”</b></p> <p>Close Star: <b>SAO-81727</b> (Zosma)<br/>Catalog Objects: <a href="#">NGC-3561</a></p> <p>Imaging Window: <b>10:23 – 05:24</b><br/>Transit: <b>01:50   85°</b></p> | <p><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>M-108 &amp; M-97</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Irregular Galaxy &amp; Planetary Nebula</b></p> <p>Constellation: <b>Ursa Major</b><br/>Coordinates:<br/><b>11h 12’ 49”</b><br/><b>55° 20’ 57”</b></p> <p>Close Star: <b>SAO-27876</b> (Merak)<br/>Catalog Objects: <a href="#">M-108</a>/NGC-3555</p> <p>Imaging Window: <b>10:05 – 05:43</b><br/>Transit: <b>01:51   68°</b></p>                   | <p><b>C-11 HD: HyperStar v4</b></p>  <p><small>M-108 (NGC-3556) and Owl Nebula (M-97, NGC-3587)<br/>Constellation: Ursa Major<br/>[RA = 11h 12m 51.217s DEC = +55deg 21' 46.196"] Size = 1.91 x 1.28 deg   Pixel scale = 2.28 arcsec/pixel</small></p> <p><small>James Yoder 2020.04.03<br/>Config:   C-11HD   HyperStar V4   Astronomik CLS-CCD   QHY128c  <br/>Exposure Info: [147frames@1min   Gain: 3200   Offset: 180  <br/>Location: Chandler, AZ</small></p> |
| <p><b>M-108 (NGC-3556)</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Irregular Galaxy</b></p> <p>Constellation: <b>Ursa Major</b><br/>Coordinates:<br/><b>11h 11’ 29”</b><br/><b>55° 40’ 22”</b></p> <p>Close Star: <b>SAO-27876</b> (Merak)<br/>Catalog Objects: <a href="#">M-108</a>/NGC-3555</p> <p>Imaging Window: <b>10:05 – 05:43</b><br/>Transit: <b>01:51   68°</b></p>  | <p><b>C-11 HD: Primary Focus</b></p>   |

# Prospective Imaging Objects – February




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| <p><b>Owl Nebula (NGC-3587)</b><br/>           Config:  C11HD ZWO6200MC <br/>           Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Ursa Major</b><br/>           Coordinates:<br/> <b>11h 14' 48"</b><br/> <b>55° 01' 10"</b></p> <p>Close Star: <b>SAO-27876</b><br/>           Catalog Objects: <a href="#">M-97</a>/NGC-3587</p> <p>Imaging Window: <b>10:08 – 05:47</b><br/>           Transit: <b>01:54   68°</b></p>  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">Owl Nebula (NGC-3597 / M-97)<br/> <small>Constellation: Ursa Major<br/>           RA = 15h 02m 02.25s DEC = +55° 01' 10.1" Size = 44" x 33" Orientation: 200deg E of N. Pixel scale = 0.442 arcsec/pixel</small></p>   |
| <p><b>Owl Nebula (NGC-3587)</b><br/>           Config:  C11HD <b>Barlow x2</b> ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b><br/>           Constellation: <b>Ursa Major</b><br/>           Coordinates:<br/> <b>11h 14' 48"</b><br/> <b>55° 01' 10"</b></p> <p>Close Star: <b>SAO-27876</b><br/>           Catalog Objects: <a href="#">M-97</a>/NGC-3587</p> <p>Imaging Window: <b>10:08 – 05:47</b><br/>           Transit: <b>01:54   68°</b></p>   | <p style="text-align: center;"><b>C-11 HD: Primary Focus *x2</b></p>   |
| <p><b>Lio Trio of Galaxies</b><br/>           Config:  C11HD ZWO6200MC <br/>           Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Leo</b><br/>           Coordinates:<br/> <b>See Targets Below</b></p> <p><i>NOTE: M-65/ M-66 &amp; NGC-3628<br/>           combined to create mosaic</i></p> <p>Close Star: <b>SAO-98967</b> (Regulus)<br/>           Catalog Objects: <a href="#">NGC-3628</a>, <a href="#">M-65</a></p> <p>Imaging Window: <b>11:05 – 05:01</b><br/>           Transit: <b>01:59   70°</b></p> | <p style="text-align: center;"><b>C-11 HD: Primary Focus Mosaic</b></p>  <p style="font-size: x-small; text-align: center;">Leo Trio of Galaxies (NGC-3628, NGC-3623, NGC-3627)<br/> <small>Constellation: Leo the Lion<br/>           RA = 11h 19m 45.3s DEC = +13deg 16' 38.0" Size = 56.7x 27.8 arcmin Orientation: 200deg E of N. Pixel scale = 0.779 arcsec/pixel (F1.1) 196kpix</small></p> |






# Prospective Imaging Objects – February

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| <p><b>Lio Trio of Galaxies</b><br/>         Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxies</b><br/>         Constellation: <b>Leo</b><br/>         Coordinates:<br/>         Frame 01<br/>         RA: 11hr 19' 57" DEC: 13° 32' 15"<br/>         Frame 02<br/>         RA: 11hr 19' 57" DEC: 13° 04' 57"</p> <p>Close Star: <b>SAO-15384</b><br/>         Catalog Objects: <a href="#">NGC-3628</a>, 3623, M-65</p> <p>Imaging Window: <b>11:05 – 05:01</b><br/>         Transit: <b>01:59   70°</b></p> | <p style="text-align: center;"><b>C-11 HD: Focal Reducer Composite!</b></p>  |
| <p><b>NGC-3628</b><br/>         Config:  C11HD ZWO6200MC <br/>         Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Leo</b><br/>         Coordinates:<br/> <b>11h 19' 44"</b><br/> <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)<br/>         Catalog Objects: <a href="#">NGC-3628</a>,<br/>         Imaging Window: <b>11:05 – 05:01</b><br/>         Transit: <b>01:59   70°</b></p>                     | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>            |

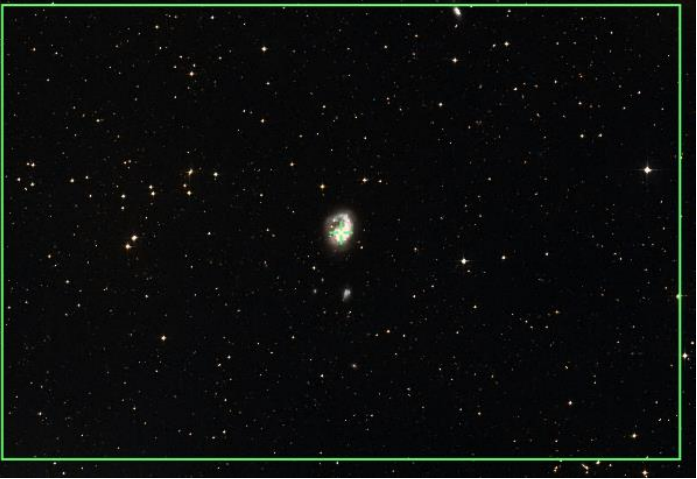

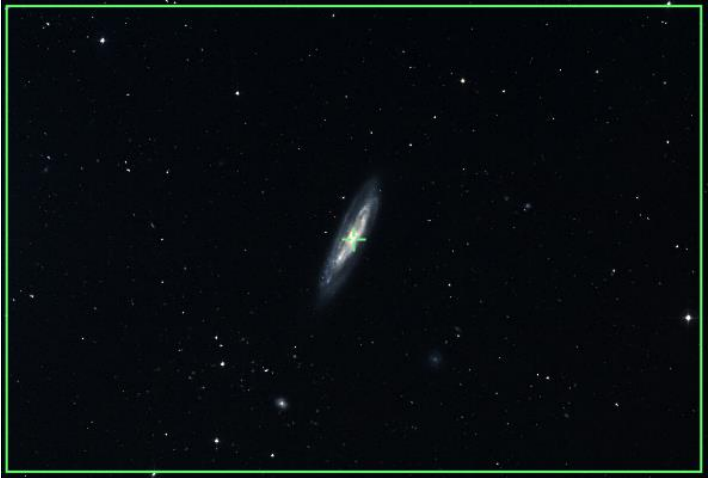
# Prospective Imaging Objects – February

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| <p><b>M-65, M-66</b><br/>           Config:  C11HD ZWO6200MC <br/>           Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Leo</b><br/>           Coordinates:<br/> <b>11h 19' 44"</b><br/> <b>13° 04' 06"</b><br/> <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)<br/>           Catalog Objects: <a href="#">M-65</a>/NGC-3623, M-66/NGC-3627</p> <p>Imaging Window: <b>11:05 – 04:58</b><br/>           Transit: <b>01:58   70°</b></p> | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">M-65, M66<br/>Spiral Galaxies</p> <p style="text-align: right; font-size: small;">James Yoder<br/>2015.05.19</p>   |
| <p><b>Arp-214 (NGC-3718, NGC-3729)</b><br/>           Config:  C11HD ZWO6200MC <br/>           Type: <b>Galaxy Pair</b></p> <p>Constellation: <b>Ursa Major</b><br/>           Coordinates:<br/> <b>11h 33' 09"</b><br/> <b>53° 05' 02"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda)<br/>           Catalog Objects: <a href="#">NGC-3718</a></p> <p>Imaging Window: <b>10:25 – 05:48</b><br/>           Transit: <b>02:12   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<br/>           Constellation: Ursa Major<br/>           RA = 10h 33m 09.01s DEC = 53deg 05' 04.8000" Size = 45 x 30.4 arcmin   Pixel scale = 0.446 arcsec/pixel   FL = 2.720mm</p> <p style="font-size: x-small; text-align: right;">James Yoder 2020-02-16<br/>           Location: Chandler, AZ<br/>           Config:  C-11 HD (Astronomik CLS-CCD) QHY128c <br/>           Exposure Info: (44mosaic) Gain: 3200 (95Sec: 180)</p> |
| <p><b>Copeland's Septet (NGC-3746, 3748, 3750, 3751, 3753, 3754)</b><br/>           Config:  C11HD ZWO6200MC <br/>           Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Leo</b><br/>           Coordinates:<br/> <b>11h 33' 09"</b><br/> <b>53° 05' 02"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola)<br/>           Catalog Objects: <a href="#">NGC-3746</a>, 3748, 3750, 3751, 3753, 3754/HCG-57</p> <p>Imaging Window: <b>11:02 – 05:38</b><br/>           Transit: <b>02:17   79°</b></p>           | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>    |




# Prospective Imaging Objects – February

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| <p><b>Abell 1367</b>(NGC-3861, et al.)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Leo</b><br/>Coordinates:<br/><b>11h 44' 40"</b><br/><b>19° 56' 32"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola)<br/>Catalog Objects: <a href="#">NGC-3861</a>, 3842,<br/>dozens of others.</p> <p>Imaging Window: <b>11:14 – 05:41</b><br/>Transit: <b>02:24   77°</b></p> | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">Galaxy Cluster Abell-1367 (ABCD-1367)<br/>Copyright © 2024 Sky-Watchers, Inc. All Rights Reserved. This image is for personal use only. No part of this image may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Sky-Watchers, Inc.</p> |
| <p><b>Wild's Triplet</b>(Arp-248)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Ursa Major</b><br/>Coordinates:<br/><b>11h 46' 41"</b><br/><b>-03° 51' 46"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda)<br/>Catalog Objects: <a href="#">Arp-248</a>, PGC-<br/>36742, 36733, 36723</p> <p>Imaging Window: *<b>11:36 – 05:18</b><br/>Transit: <b>02:26   53°</b></p>       | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>    |
| <p><b>M-109</b>(NGC-3992)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Ursa Major</b><br/>Coordinates:<br/><b>11h 57' 34"</b><br/><b>53° 20' 59"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda)<br/>Catalog Objects: <a href="#">NGC-3992</a></p> <p>Imaging Window: <b>10:50 – 05:48</b><br/>Transit: <b>02:37   70°</b></p>  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |


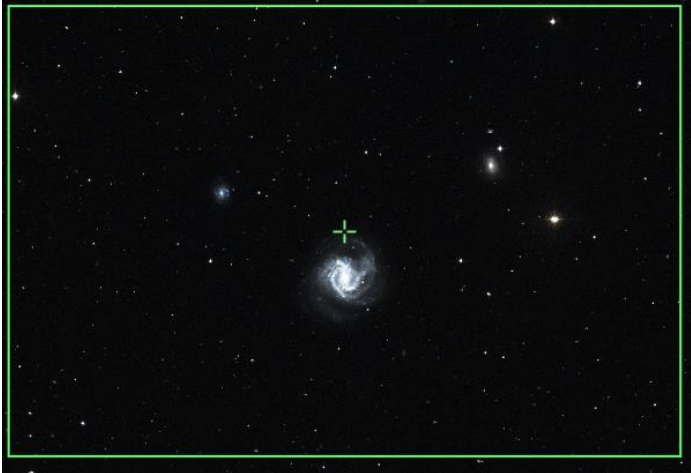
# Prospective Imaging Objects – February

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| <p><b>NGC-4027</b> (PGC-37773)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Corvus</b><br/>Coordinates:<br/><b>11h 59' 31"</b><br/><b>-19° 15' 57"</b></p> <p>Close Star: <b>SAO-157923</b> (Spica)<br/>Catalog Objects: <a href="#">NGC-4027</a></p> <p>Imaging Window: *<b>12:37 – 04:38</b><br/>Transit: <b>02:38</b>   <b>37°</b></p>                                    | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>    |
| <p><b>Antennae Galaxies</b> (Arp-244)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Pair</b></p> <p>Constellation: <b>Corvus</b><br/>Coordinates:<br/><b>12h 01' 54"</b><br/><b>-18° 53' 08"</b></p> <p>Close Star: <b>SAO-157923</b> (Spica)<br/>Catalog Objects: <a href="#">Arp-244/</a><br/>NGC-4038, NGC-4039</p> <p>Imaging Window: *<b>12:37 – 04:46</b><br/>Transit: <b>02:41</b>   <b>38°</b></p> | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>M-98</b> (NGC-4192)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b><br/>Coordinates:<br/><b>12h 13' 48"</b><br/><b>14° 53' 58"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola)<br/>Catalog Objects: <a href="#">M-98</a>/NGC-4192</p> <p>Imaging Window: <b>11:55 – 05:48</b><br/>Transit: <b>02:53</b>   <b>72°</b></p>              | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  |

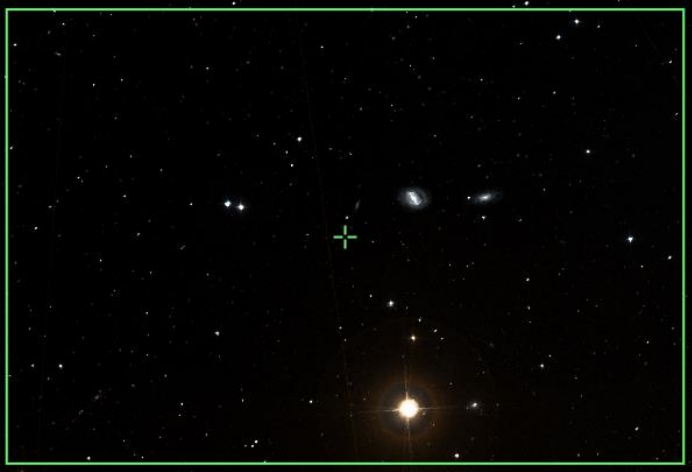


# Prospective Imaging Objects – February

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| <p><b>NGC-4236</b> (UGC 7306)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Draco</b><br/>Coordinates:<br/><b>12h 16' 42"</b><br/><b>69° 28' 00"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth)<br/>Catalog Objects: <a href="#">NGC-4236</a>/UGC-7306</p> <p>Imaging Window: <b>11:44 – 05:48</b><br/>Transit: <b>02:56   54°</b></p>                               | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>    |
| <p><b>Silver Needle</b> (NGC-4244)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Canes Venatici</b><br/>Coordinates:<br/><b>12h 17' 30"</b><br/><b>37° 48' 28"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola)<br/>Catalog Objects: <a href="#">NGC-4244</a>/UGC-7322</p> <p>Imaging Window: <b>11:17 – 05:48</b><br/>Transit: <b>02:56   86°</b></p>               | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>St. Katherines Wheel</b><br/>(M99/NGC4254)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b><br/>Coordinates:<br/><b>12h 18' 49"</b><br/><b>14° 25' 03"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola)<br/>Catalog Objects: <a href="#">M-99</a>/NGC-4254<br/>Imaging Window: <b>12:01 – 05:48</b><br/>Transit: <b>02:58   71°</b></p> | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  |


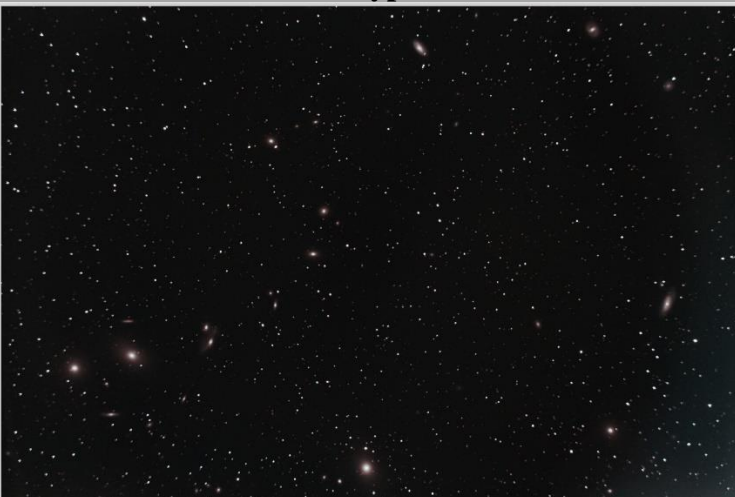
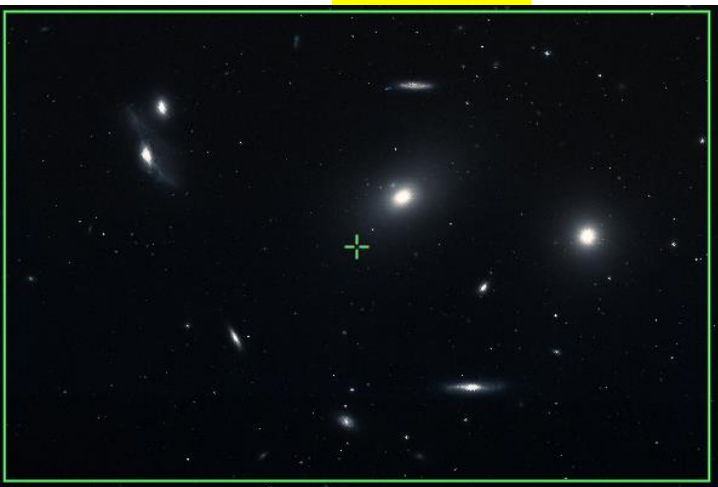
# Prospective Imaging Objects – February

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| <p><b>Galaxy Group 106</b><br/>           Config: C11-HD   HS   ZWO6200MC</p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Canes Venatici</b><br/>           Coordinates:<br/> <b>12h 17' 12"</b><br/> <b>47° 13' 33"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda)<br/>           Catalog Objects: <a href="#">M-106</a>, NGC 4248, 4217, 4232, 4331<br/>           Imaging Window: <b>11:12 – 05:48</b><br/>           Transit: <b>02:58   76°</b></p>     | <p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>  |
| <p><b>M-106</b>(NGC-4258)<br/>           Config:  C11-HD <b>FR</b> ZWO6200MC </p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Canes Venatici</b><br/>           Coordinates:<br/> <b>12h 17' 12"</b><br/> <b>47° 13' 33"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda)<br/>           Catalog Objects: <a href="#">M-106</a>, NGC 4248, 4217, 4232, 4331<br/>           Imaging Window: <b>11:12 – 05:48</b><br/>           Transit: <b>02:58   76°</b></p> | <p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>   |
| <p><b>M-61</b> (NGC4303)<br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Face-On Spiral Galaxy</b></p> <p>Constellation: <b>Virgo</b><br/>           Coordinates:<br/> <b>12h 21' 55"</b><br/> <b>04° 31' 28"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)<br/>           Catalog Objects: <a href="#">M-61</a>/NGC-4303, NGC-4292, NGC-4301<br/>           Imaging Window: <b>12:36 – 05:33</b><br/>           Transit: <b>03:01   61°</b></p>          | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>                                 |

# Prospective Imaging Objects – February


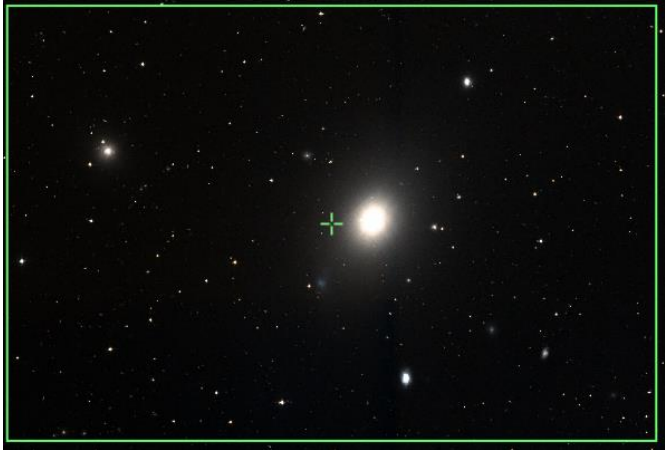

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| <p><b>Winnecke 4</b>(M-40)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Ursa Major</b><br/>Coordinates:<br/><b>12h 21' 22"</b><br/><b>58° 03' 05"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda)<br/>Catalog Objects: <a href="#">M-40</a>, NGC-4290,<br/>NGC-4284<br/>Imaging Window: <b>11:18 – 05:48</b><br/>Transit: <b>03:01   65°</b></p>  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>M-100</b>(NGC-4303)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Face-On Spiral Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b><br/>Coordinates:<br/><b>12h 22' 28"</b><br/><b>15° 42' 40"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)<br/>Catalog Objects: <a href="#">M-100</a>/NGC-4321,<br/>NGC-4312, 4328, 4322, UGC-7425, IC-783A,<br/>Imaging Window: <b>12:02 – 05:48</b><br/>Transit: <b>03:02   72°</b></p> | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>    |
| <p><b>Lawn Sprinkler Nebula</b> (NGC-4361)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b></p> <p>Constellation: <b>Corvus</b><br/>Coordinates:<br/><b>12h 24' 31"</b><br/><b>-18° 47' 03"</b></p> <p>Close Star: <b>SAO-157176</b> (Gienah Corvi)<br/>Catalog Objects: <a href="#">NGC-4361</a><br/>Imaging Window: <b>*12:57 – 05:10</b><br/>Transit: <b>03:03   38°</b></p>   | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small;">Planetary Nebula NGC-6572<br/>Consultation: Optibunch<br/>Coordinates: RA=19h 07m 31.81s Dec=-18d 11' 12.21" Size=27x18 arcsec Orientation: 84deg E of N Pixel Scale=0.27 arcsec/pixel F1-500nm</p> <p style="font-size: x-small;">Astronomy Today (2006) 20(2) 46-48, 50-51 Location: Cambridge, AZ<br/>© 2006 Lick Observatory, University of California, Santa Lucia<br/>Approved for: Lick Observatory, California State University, Stanislaus</p> |

# Prospective Imaging Objects – February




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| <p><b>Markarian Chain (M-84 Et. Et.)</b><br/>           Config: C11-HD   HS   ZWO6200MC<br/>           Type: <b>Galaxy cluster</b></p> <p>Constellation: <b>Virgo</b><br/>           Coordinates:<br/> <b>12h 26' 29"</b><br/> <b>12° 52' 22"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)<br/>           Catalog Objects: <a href="#">M-84</a>/NGC-4374, NGC-4388, 4425, 4402, M-86/NGC4406, 4438, 4435, and more<br/>           Imaging Window: <b>12:12 – 05:48</b><br/>           Transit: <b>03:04   69°</b></p> | <p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>     |
| <p><b>Markarian Chain 2</b><br/>           Config: C11-HD   HS   ZWO6200MC<br/>           Type: <b>Galaxy cluster</b></p> <p>Constellation: <b>Virgo</b><br/>           Coordinates:<br/> <b>12h 35' 40"</b><br/> <b>12° 33' 22"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)<br/>           Catalog Objects: <a href="#">M-84</a>/NGC-4374, NGC-4388, 4425, 4402, M-86/NGC4406, 4438, 4435, and more<br/>           Imaging Window: <b>12:12 – 05:48</b><br/>           Transit: <b>03:04   69°</b></p>              | <p style="text-align: center;"><b>C-11 HD: HyperStar v4</b></p>    |
| <p><b>Markarian's Chain (M-84)</b><br/>           Config:  C11-HD FR ZWO6200MC <br/>           Type: <b>Galaxy cluster</b></p> <p>Constellation: <b>Virgo</b><br/>           Coordinates:<br/> <b>12h 26' 29"</b><br/> <b>12° 52' 22"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)<br/>           Catalog Objects: <a href="#">M-84</a>/NGC-4374, NGC-4388, 4425, 4402, M-86/NGC4406, 4438, 4435, and more<br/>           Imaging Window: <b>12:12 – 05:48</b><br/>           Transit: <b>03:04   69°</b></p>         | <p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  |






# Prospective Imaging Objects – February

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| <p><b>Emission Line Galaxy</b><br/>(NGC-4449/UGC-7592)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Irregular Galaxy</b></p> <p>Constellation: <b>Canes Venatici</b><br/>Coordinates:<br/><b>12h 28' 11"</b><br/><b>44° 05' 42"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth)<br/>Catalog Objects: <a href="#">NGC-4449/UGC-7592</a><br/>Imaging Window: <b>11:22 – 05:48</b><br/>Transit: <b>03:07   79°</b></p> | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="font-size: small; text-align: center;">NGC-4449 (Caldwell 21)<br/>Constellation: Canes Venatici<br/>RA = 12h 28m 11.3s, DEC = 44deg 05' 42.7", Size = 21.6 x 17.3 arcmin, Orientation: Mag 1.0751, Flux scale = 0.777 arcspot/11 = 200mm<br/>Date/Time/Dir: 2024/12/25, 00:00:00, Location: Canada, AZ<br/>Eq: C-11 HD Mod/Focus/FW/AG/DMC<br/>Exposure Info: F5 Filter/Gain: Gain: 800/Offset: 50</p> |
| <p><b>M-49</b>(NGC-4472)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Elliptical Galaxy</b></p> <p>Constellation: <b>Virgo</b><br/>Coordinates:<br/><b>12h 29' 58"</b><br/><b>07° 59' 51"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)<br/>Catalog Objects: <a href="#">M-49/NGC-4472</a><br/>Imaging Window: <b>12:31 – 05:48</b><br/>Transit: <b>03:09   65°</b></p>  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>    |
| <p><b>Virgo A</b>(M-87)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Elliptical Galaxy</b></p> <p>Constellation: <b>Virgo</b><br/>Coordinates:<br/><b>12h 30' 49"</b><br/><b>12° 23' 26"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)<br/>Catalog Objects: <a href="#">M-87/NGC-4486</a><br/>Imaging Window: <b>12:19 – 05:48</b><br/>Transit: <b>03:10   69°</b></p>   | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |


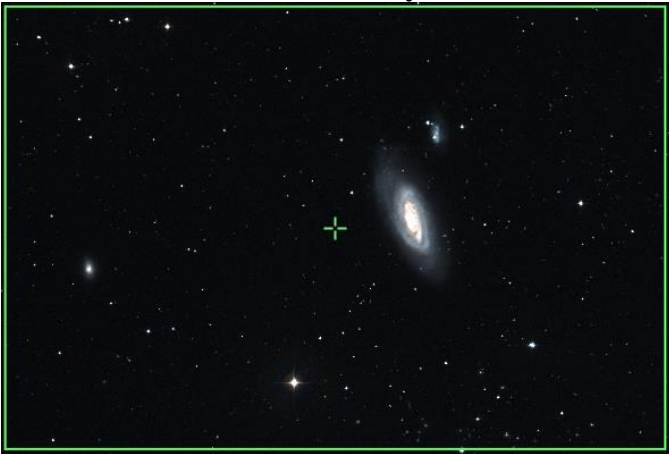

# Prospective Imaging Objects – February

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| <p><b>Cocoon Galaxy</b>(NGC-4490)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Interacting Galaxy Pair</b></p> <p>Constellation: <b>Canes Venatici</b><br/>Coordinates:<br/><b>12h 30' 36"</b><br/><b>41° 38' 34"</b></p> <p>Close Star: <b>SAO-28179</b> (Phecda)<br/>Catalog Objects: <a href="#">NGC-4490</a>, NGC-4485</p> <p>Imaging Window: <b>11:27 – 05:48</b><br/>Transit: <b>03:09   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)<br/>Constellation: Canes Venatici<br/>RA = 12h 30m 36.81s DEC = +41deg 38' 34.11" Size = 36.1 x 24.3 arcmin Orientation: -0.33deg E of N Pixel scale = 0.448 arcsec/pix FL=2750mm<br/>James Voderl (Duxis) 2020.02.02 - 2020.02.07 Location: Chandler, AZ<br/>Config: C-11 HD (Rancher Skyliner) QSI128L<br/>Exposure Info: 7x600s@8mm Gain: 1200 Offset: 100</p> |
| <p><b>Lemon Slice Nebula</b> (IC-3568)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Planetary Nebula</b><br/>Constellation: <b>Camelopardalis</b><br/>Coordinates:<br/><b>12h 33' 14"</b><br/><b>82° 33' 22"</b></p> <p>Close Star: <b>SAO-8102</b> (Kochab)<br/>Catalog Objects: <a href="#">IC-3568</a>/UGC-7731</p> <p>Imaging Window: <b>*10:16 – 05:48</b><br/>Transit: <b>03:12   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<br/>Constellation: Camelopardalis<br/>RA = 12h 33m 14.11s DEC = +82deg 33' 22.11" Size = 21.1 x 18.8 arcmin Orientation: 84.9° E of N Pixel scale = 0.2 arcsec/pix FL=2070mm<br/>James Voderl (Duxis) 2020.02.02 - 2020.02.07 Location: Chandler, AZ<br/>Config: C-11 HD (Rancher Skyliner) QSI128L<br/>Exposure Info: 7x600s@8mm Gain: 1200 Offset: 100</p>                    |
| <p><b>M-91</b>(NGC-4548)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b><br/>Coordinates:<br/><b>12h 36' 04"</b><br/><b>14° 23' 37"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)<br/>Catalog Objects: <a href="#">M-91</a>/NGC4548,<br/>NGC-4571</p> <p>Imaging Window: <b>12:17 – 05:48</b><br/>Transit: <b>03:14   71°</b></p>  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |




# Prospective Imaging Objects – February

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| <p><b>M-89</b>(NGC-4552)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Elliptical Galaxy</b></p> <p>Constellation: <b>Virgo</b><br/>Coordinates:<br/><b>12h 35' 43"</b><br/><b>12° 24' 24"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)<br/>Catalog Objects: <a href="#">M-89</a>/NGC4552,<br/>NGC-4551, NGC-4550, IC-3574, IC-3586<br/>Imaging Window: <b>12:23 – 05:48</b><br/>Transit: <b>03:15   69°</b></p> | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>    |
| <p><b>NGC-4559</b> (UGC-7766)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b><br/>Coordinates:<br/><b>12h 35' 58"</b><br/><b>27° 57' 35"</b></p> <p>Close Star: <b>SAO-44752</b> (Alkaid)<br/>Catalog Objects: <a href="#">NGC-4559</a>/UGC-<br/>7766<br/>Imaging Window: <b>11:49 – 05:48</b><br/>Transit: <b>03:15   85°</b></p>                   | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>Siamese Twins</b>(NGC-4567)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Elliptical Galaxy</b></p> <p>Constellation: <b>Virgo</b><br/>Coordinates:<br/><b>12h 36' 26"</b><br/><b>11° 19' 59"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)<br/>Catalog Objects: <a href="#">NGC-4567</a>,<br/>NGC-4568, NGC-4564<br/>Imaging Window: <b>12:28 – 05:48</b><br/>Transit: <b>03:15   68°</b></p>              | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  |




# Prospective Imaging Objects – February

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| <p><b>Needle Galaxy</b> (NGC-4565)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Edge-on Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b><br/>Coordinates:<br/><b>12h 36' 02"</b><br/><b>25° 56' 51"</b></p> <p>Close Star: <b>SAO-44752</b> (Alkaid)<br/>Catalog Objects: <a href="#">NGC-4565</a>,<br/>NGC-4562<br/>Imaging Window: <b>11:53 – 05:48</b><br/>Transit: <b>03:15   83°</b></p> | <p><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>M-90</b> (NGC-4569)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Virgo</b><br/>Coordinates:<br/><b>12h 37' 11"</b><br/><b>13° 09' 19"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)<br/>Catalog Objects: <a href="#">M-90</a>/NGC-4569<br/>IC-3583, NGC-4584<br/>Imaging Window: <b>12:23 – 05:48</b><br/>Transit: <b>03:16   70°</b></p>    | <p><b>C-11 HD: Primary Focus</b></p>  |
| <p><b>Galaxy Group 58</b><br/>Config:   C-11HD   HyperStar  </p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Virgo</b><br/>Coordinates:<br/><b>12h 37' 35"</b><br/><b>12° 18' 56"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)<br/>Catalog Objects: <a href="#">M-58</a>/NGC-4579<br/>Imaging Window: <b>12:27 – 05:48</b><br/>Transit: <b>03:17   68°</b></p>                      | <p><b>C-11 HD: HyperStar v4</b></p>  |


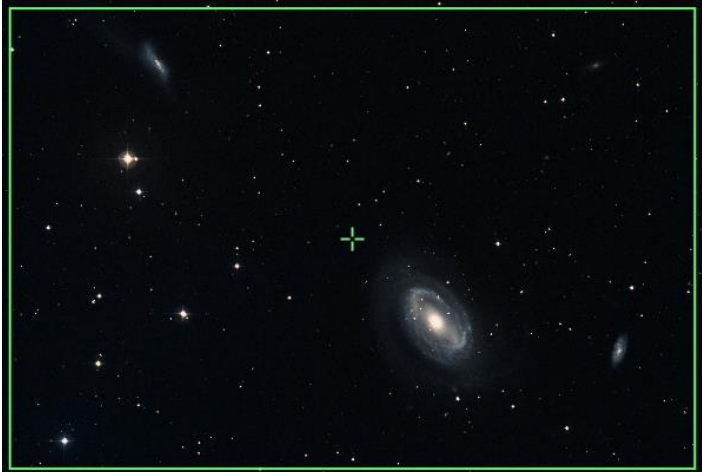
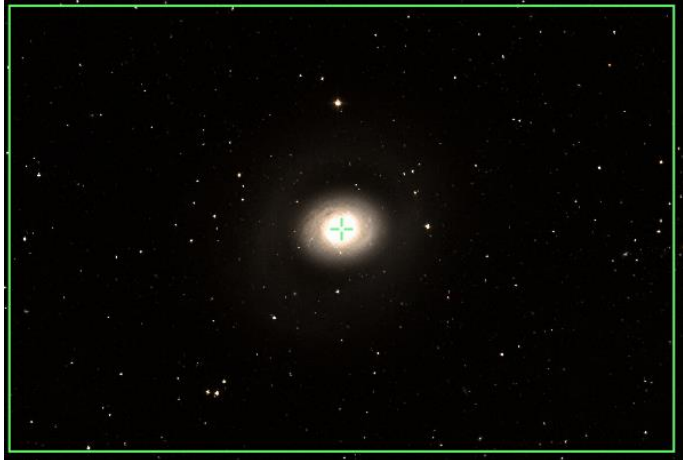
# Prospective Imaging Objects – February

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| <p><b>M-58</b> (NGC-4579)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Virgo</b><br/>Coordinates:<br/><b>12h 37' 44"</b><br/><b>11° 49' 06"</b></p> <p>close Star: <b>SAO-100944</b> (Arcturus)<br/>Catalog Objects: <a href="#">M-58</a>/NGC-4579<br/>Imaging Window: <b>12:27 – 05:48</b><br/>Transit: <b>03:17   68°</b></p>             | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>    |
| <p><b>M-68</b> (NGC-4590)<br/>Config:  C11HD  ZWO6200MC </p> <p>Type: <b>Globular Cluster</b><br/>Constellation: <b>Hydra</b><br/>Coordinates:<br/><b>12h 39' 28"</b><br/><b>-26° 44' 32"</b></p> <p>Close Star: <b>SAO-180915</b> (Kraz)<br/>Catalog Objects: <a href="#">M-68</a>/NGC-4590</p> <p>Imaging Window: <b>*01:37 – 05:10</b><br/>Transit: <b>03:18   30°</b></p>                  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>Sombrero Galaxy</b> (M-104)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Edge-on Spiral Galaxy</b></p> <p>Constellation: <b>Virgo</b><br/>Coordinates:<br/><b>12h 39' 44"</b><br/><b>-11° 37' 52"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)<br/>Catalog Objects: <a href="#">M-104</a>/NGC-4594<br/>Imaging Window: <b>*12:37 – 05:48</b><br/>Transit: <b>03:32   45°</b></p> | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  |


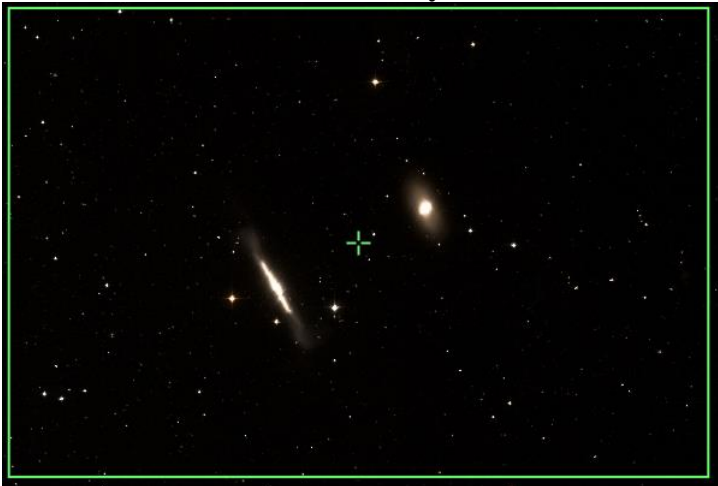
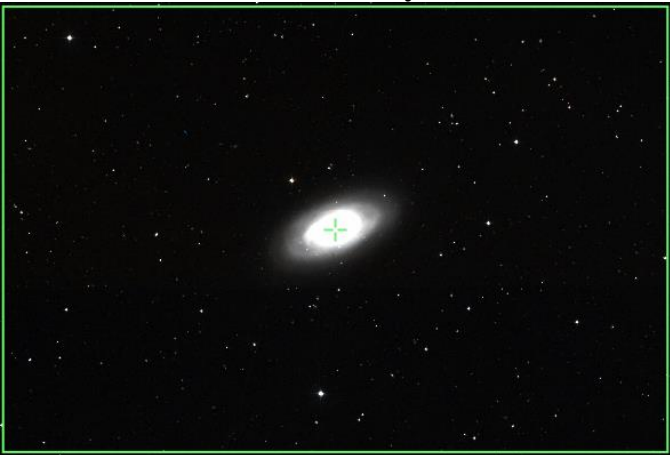
# Prospective Imaging Objects – February

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|--|--|
| <p><b>Whale and Hockey Stick</b><br/>(NGC-4631, NGC-4656)<br/>Config:  C11-<br/>HD FR ZWO6200MC </p> <p>Type: <b>Galaxies</b></p> <p>Constellation: <b>Canes Venatici</b><br/>Coordinates:<br/><b>12h 42' 50"</b><br/><b>32° 20' 54"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola)<br/>Catalog Objects: <a href="#">NGC-4631</a>,<br/>NGC-4656<br/>Imaging Window: <b>11:48– 05:48</b><br/>Transit: <b>03:21   89°</b></p>              | <p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small;">Whale and Hockey Stick Galaxies (NGC4631, NGC4656)<br/>Constellation: Canes Venatici</p> <p style="font-size: x-small; text-align: right;">James Yoder - 2019.04.14<br/>Location: Mountain View, Trabuco, AZ<br/>Config: C11 Starizona LP Corrector / Dualer Skyglow Filter (GRV 12c)<br/>Exposure Info: 11.0min@6min Gain: 3200   Offset: 100</p>  |
| <p><b>M-59, M-60 group</b><br/>Config:  C11-<br/>HD FR ZWO6200MC </p> <p>Type: <b>Galaxy Group</b></p> <p>Constellation: <b>Virgo</b><br/>Coordinates:<br/><b>12h 42' 42"</b><br/><b>11° 40' 33"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola)<br/>Catalog Objects: <a href="#">M-59</a>/NGC-4621,<br/>M-60/NGC-4649, NGC-4656, 4647,<br/>4638, 4607, 4606<br/>Imaging Window: <b>12:32 – 05:48</b><br/>Transit: <b>03:21   68°</b></p> | <p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small;">Virgo Cluster of Galaxies<br/>Constellation: Virgo the virgin</p> <p style="font-size: x-small; text-align: right;">James Yoder   Date: 2021.04.30 - 2020.05.16   Location: Chandler, AZ<br/>Config: C11-HD   0.7 Reducer   Filter: Dualer Skyglow, RGB   Camera: ZWO ASI4200<br/>Exposure Info: L=84min@6min, G=11min@6min, R=12min@6min, B=14min@6min   Total = 12hrs 18min Gain: 100   Offset: 50<br/>  RA = 12h 42m 40.5s DEC = +11deg 40' 19.7"   Size = 57.3 x 37.7 arcmin   Orientation = -0.2deg E of N   Pixel scale = 0.785 arcsec/pixel   FL=1900mm  </p> |
| <p><b>TheMice</b> (NGC-4676 A &amp; B)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Interacting Galaxies</b></p> <p>Constellation: <b>Coma Berenices</b><br/>Coordinates:<br/><b>12h 46' 07"</b><br/><b>30° 43' 43"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola)<br/>Catalog Objects: <a href="#">NGC-4676A &amp; B</a><br/>Imaging Window: <b>11:55 – 05:48</b><br/>Transit: <b>03:25   87°</b></p>                                  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |

# Prospective Imaging Objects – February

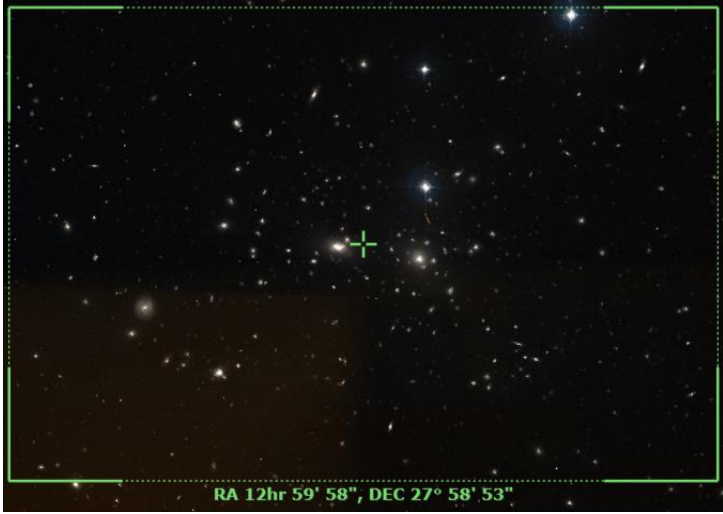


|  |   |
|--|---|
| <p><b>NGC-4725</b> (PGC-43451)<br/>           Config:  C11-<br/>           HD FR ZWO6200MC </p> <p>Type: <b>Galaxy group</b></p> <p>Constellation: <b>Coma Berenices</b><br/>           Coordinates:<br/> <b>12h 50' 55"</b><br/> <b>25° 35' 59"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola)<br/>           Catalog Objects: <a href="#">NGC-4725</a>,<br/>           NGC-4712, NGC-4747<br/>           Imaging Window: <b>12:08 – 05:48</b><br/>           Transit: <b>03:29   82°</b></p> | <p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>  <p style="font-size: small;">Galaxy Cluster NGC-4747, NGC-4725, NGC4712<br/> <small>James Yoder   Date(s) 2021.01.02, 2021.01.03   Location: Chandler, AZ  <br/>           Config:  C11-HD  0.7 Reducer  Filter: Baader Skyglow   Camera: QHY129C  <br/>           Constellation: Coma Berenices<br/>             RA = 12h 50m 40.89s   DEC = +25deg 36' 33.3"   Size = 44.39 x 29.62 arcmin   Orientation: (Mag. E. of N.)   Pixel scale = 0.630 arcsec/pixel   FL=1955mm   Exposure Info: 96frames@15sec   Gain: 3200   Offset: 100</small></p> |
| <p><b>NGC-4725</b> (PGC-43451)<br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy group</b></p> <p>Constellation: <b>Coma Berenices</b><br/>           Coordinates:<br/> <b>12h 50' 50"</b><br/> <b>25° 35' 23"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola)<br/>           Catalog Objects: <a href="#">NGC-4725</a>,<br/>           NGC-4712, NGC-4747<br/>           Imaging Window: <b>12:08 – 05:48</b><br/>           Transit: <b>03:29   82°</b></p>                     | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>M-94</b> (NGC-4736)<br/>           Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Canes Venatici</b><br/>           Coordinates:<br/> <b>12h 50' 53"</b><br/> <b>41° 07' 17"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth)<br/>           Catalog Objects: <a href="#">M-94</a>/NGC-4736<br/>           Imaging Window: <b>11:47 – 05:48</b><br/>           Transit: <b>03:30   82°</b></p>  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>    |

# Prospective Imaging Objects – February




|   |   |
|---|---|
| <p><b>NGC-4731</b> (PGC-43507)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Barred Spiral Galaxy</b></p> <p>Constellation: <b>Virgo</b><br/>Coordinates:<br/><b>12h 51' 01"</b><br/><b>-06° 21' 49"</b></p> <p>Close Star: <b>SAO-157923</b> (Spica)<br/>Catalog Objects: <a href="#">NGC-4731</a><br/>Imaging Window: *<b>12:49 – 05:48</b><br/>Transit: <b>03:30   50°</b></p>               | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>    |
| <p><b>NGC-4762, 4754</b> (PGC-43733)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Edge on Galaxy</b></p> <p>Constellation: <b>Virgo</b><br/>Coordinates:<br/><b>12h 52' 35"</b><br/><b>11° 16' 42"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola)<br/>Catalog Objects: <a href="#">NGC-4762</a>,<br/>NGC-4754<br/>Imaging Window: <b>12:44 – 05:48</b><br/>Transit: <b>03:32   68°</b></p> | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>Black Eye Galaxy</b> (M-64)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Coma Berenices</b><br/>Coordinates:<br/><b>12h 56' 44"</b><br/><b>21° 40' 59"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola)<br/>Catalog Objects: <a href="#">M-64</a>/NGC-4826<br/>Imaging Window: <b>12:22 – 05:48</b><br/>Transit: <b>03:36   78°</b></p>            | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  |





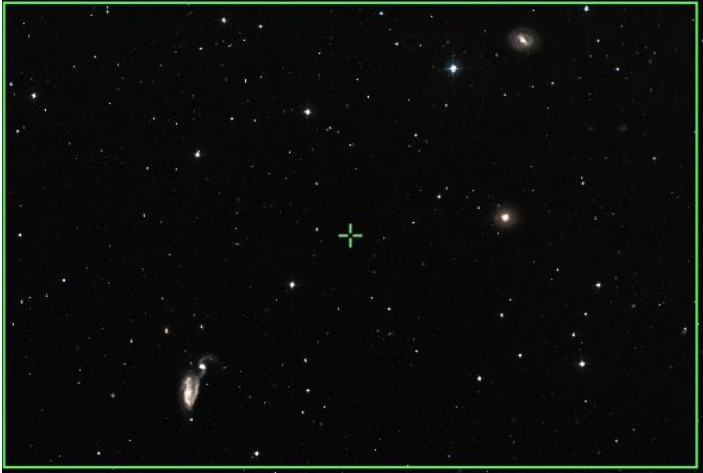
# Prospective Imaging Objects – February

|   |   |
|---|---|
| <p><b>Coma Galaxy Cluster</b><br/>(Abell-1656)<br/>Config:  C11-<br/>HD FR ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Coma Berenices</b><br/>Coordinates:<br/><b>12h 59' 58"</b><br/><b>27° 58' 53"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola)<br/>Catalog Objects: <a href="#">Abell-1656</a><br/>Imaging Window: <b>12:13 – 05:48</b><br/>Transit: <b>03:39   84°</b></p> | <p style="text-align: center;"><b>C-11 HD: Focal Reducer</b></p>    |
| <p><b>Coma Galaxy Cluster</b><br/>(Abell-1656)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy Cluster</b></p> <p>Constellation: <b>Coma Berenices</b><br/>Coordinates:<br/><b>13h 00' 06"</b><br/><b>28° 00' 31"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola)<br/>Catalog Objects: <a href="#">Abell-1656</a><br/>Imaging Window: <b>12:13 – 05:48</b><br/>Transit: <b>03:39   84°</b></p>          | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>M-53</b> (NGC-5024)<br/>Config:  C11HD   ZWO6200MC </p> <p>Type: <b>Globular Cluster</b><br/>Constellation: <b>Coma Berenices</b><br/>Coordinates:<br/><b>13h 12' 55"</b><br/><b>18° 10' 11"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola)<br/>Catalog Objects: <a href="#">M-53</a>/NGC-5024</p> <p>Imaging Window: <b>12:46 – 05:48</b><br/>Transit: <b>03:52   75°</b></p>                        | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  |




# Prospective Imaging Objects – February

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|---|---|
| <p><b>NGC-5033</b> (PGC-45948)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Canes Venatici</b><br/>Coordinates:<br/><b>13h 13' 28"</b><br/><b>36° 35' 36"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth)<br/>Catalog Objects: <a href="#">NGC-5033</a>/PGC-45948<br/>Imaging Window: <b>12:14 – 05:48</b><br/>Transit: <b>03:52   87°</b></p>             | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>    |
| <p><b>Sunflower Galaxy</b> (M-63)<br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Spiral Galaxy</b></p> <p>Constellation: <b>Canes Venatici</b><br/>Coordinates:<br/><b>13h 15' 15"</b><br/><b>42° 04' 41"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth)<br/>Catalog Objects: <a href="#">M-63</a>/NGC-5055,<br/>UGC-8313<br/>Imaging Window: <b>12:12 – 05:48</b><br/>Transit: <b>03:55   81°</b></p> | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>   |
| <p><b>NGC-5053</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b></p> <p>Constellation: <b>Coma Berenices</b><br/>Coordinates:<br/><b>13h 16' 27"</b><br/><b>17° 41' 55"</b></p> <p>Close Star: <b>SAO-99809</b> (Denebola)<br/>Catalog Objects: <a href="#">NGC-5053</a><br/>Imaging Window: <b>12:50 – 05:48</b><br/>Transit: <b>03:55   74°</b></p>                              | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  |

# Prospective Imaging Objects – February

|   |  |
|---|--|
| <p><b>Whirlpool Galaxy (M-51)</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Interacting Galaxies</b></p> <p>Constellation: <b>Canes Venatici</b><br/>Coordinates:<br/><b>13h 29' 53"</b><br/><b>47° 11' 44"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth)<br/>Catalog Objects: <a href="#">M-51</a>/NGC-5194, NGC-5195<br/>Imaging Window: <b>12:23 – 05:48</b><br/>Transit: <b>04:09   76°</b></p>                  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;"><small>Whirlpool Galaxy M-51 (NGC-5194)<br/>Constellation: Canes Venatici<br/>Coordinates: 13h 29m 53.0s, 47° 11' 44.0"</small></p> |
| <p><b>M-3 (NGC-5272)</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Globular Cluster</b><br/>Constellation: <b>Canes Venatici</b><br/>Coordinates:<br/><b>13h 42' 11"</b><br/><b>28° 22' 34"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)<br/>Catalog Objects: <a href="#">M-3</a>/NGC-5272<br/>Imaging Window: <b>12:55 – 05:48</b><br/>Transit: <b>04:21   85°</b></p>  | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;"><small>Globular Cluster M-3<br/>Constellation: Canes Venatici<br/>Coordinates: 13h 42m 11.0s, 28° 22' 34.0"</small></p>            |
| <p><b>Heron Galaxy (NGC-5395) et el.</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxies</b></p> <p>Constellation: <b>Canes Venatici</b><br/>Coordinates:<br/><b>13h 57' 46"</b><br/><b>37° 35' 31"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)<br/>Catalog Objects: <a href="#">NGC-5395</a>,<br/>NGC-5394, NGC-5380, NGC-5378<br/>Imaging Window: <b>12:59 – 05:48</b><br/>Transit: <b>04:37   86°</b></p> | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;"><small>Heron Galaxy NGC-5395<br/>Constellation: Canes Venatici<br/>Coordinates: 13h 57m 46.0s, 37° 35' 31.0"</small></p>          |

# Prospective Imaging Objects – February

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|--|--|
| <p><b>Pinwheel Galaxy (M-101)</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Face-on Spiral Galaxy</b></p> <p>Constellation: <b>Ursa Major</b><br/>Coordinates:<br/><b>14h 03' 54"</b><br/><b>54° 22' 44"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth)<br/>Catalog Objects: <a href="#">M-101</a>/NGC-5457,<br/>NGC-5477<br/>Imaging Window: <b>12:56 – 05:48</b><br/>Transit: <b>04:42   69°</b></p> | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;"><small>M-101 (Pinwheel Galaxy) with Supernova<br/>Copyright © 2014</small></p>                                      |
| <p><b>NGC-5466</b><br/>Config:  C11HD  ZWO6200MC </p> <p>Type: <b>Globular Cluster</b><br/>Constellation: <b>Bootes</b><br/>Coordinates:<br/><b>14h 05' 27"</b><br/><b>28° 32' 06"</b></p> <p>Close Star: <b>SAO-100944</b> (Arcturus)<br/>Catalog Objects: <a href="#">NGC-5466</a></p> <p>Imaging Window: <b>01:18 – 05:48</b><br/>Transit: <b>04:44   85°</b></p>   | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;"><small>Globular Cluster NGC-5466<br/>Copyright © 2014</small></p>  |
| <p><b>Spindle Galaxy (M-102)</b><br/>Config:  C11HD ZWO6200MC </p> <p>Type: <b>Galaxy</b></p> <p>Constellation: <b>Draco</b><br/>Coordinates:<br/><b>15h 06' 29"</b><br/><b>55° 45' 49"</b></p> <p>Close Star: <b>SAO-28553</b> (Alioth)<br/>Catalog Objects: <a href="#">M-102</a><br/>Imaging Window: <b>02:00 – 05:48</b><br/>Transit: <b>05:45   69°</b></p>   | <p style="text-align: center;"><b>C-11 HD: Primary Focus</b></p>  <p style="text-align: center;"><small>Spindle Galaxy (M-102/NGC-5866)<br/>Constellation: Spiral Galaxy in Draco<br/>Copyright © 2014</small></p> |

# Prospective Imaging Objects – February

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# Prospective Imaging Objects – February

## Imaging Summary February 15, 2025

Astronomical Dusk = 07:36

Astronomical Dawn = 05:48

### HyperStar: Nebula

| Configuration | Class  | Type   | Object           | Imaging Window | Transit | Page Ref | Comments                               |
|---------------|--------|--------|------------------|----------------|---------|----------|--|
| HyperStar     | Nebula | Nebula | IC-405           | 07:36 – 11:39  | 07:57   | 03       | Auriga: Flaming Star Nebula            |
| HyperStar     | Nebula | Nebula | Orion Cmpx       | 07:36 – 09:54  | 08:15   | 08       | Comp6! Orion: Orion Complex of objects |
| HyperStar     | Nebula | Nebula | M-42             | 07:36 – 09:54  | 08:15   | 08       | Orion: Orion and Running Man Nebula    |
| HyperStar     | Nebula | Nebula | M-42             | 07:36 – 09:54  | 08:15   | 09       | Orion: Orion and Running Man Nebula    |
| HyperStar     | Nebula | Nebula | SH 2-240         | 07:36 – 11:53  | 08:21   | 10       | Rot90°, Comp2! Taurus: Simeis 147      |
| HyperStar     | Nebula | Nebula | SH 2-240         | 07:36 – 11:53  | 08:21   | 11       | Taurus: Simeis 147                     |
| HyperStar     | Nebula | Nebula | NGC-2024, B-33   | 07:36 – 10:23  | 08:22   | 11       | Orion: Horsehead and Flame Nebula      |
| HyperStar     | Nebula | Nebula | IC-2162, SH2-261 | 07:36 – 11:55  | 08:49   | 18       | Rot90° Orion: Two Nebulas              |
| HyperStar     | Nebula | Nebula | IC-443           | 07:36 – 12:19  | 08:57   | 20       | Gemini: Jellyfish Nebula               |
| HyperStar     | Nebula | Nebula | NGC-2237         | 07:36 – 11:43  | 09:10   | 22       | Monoceros: Rosett Nebula               |
| HyperStar     | Nebula | Nebula | IC-2169          | 07:36 – 12:01  | 09:11   | 23       | Monoceros: DN & Nebulas                |
| HyperStar     | Nebula | Nebula | IC-2177          | *07:36-12:37   | 09:44   | 26       | Rot90° Monoceros: Seagull Nebula       |
|               |        |        |                  |                |         |          |  |

# Prospective Imaging Objects – February

## Imaging Summary February 15, 2025

Astronomical Dusk = 07:36

Astronomical Dawn = 05:48

### HyperStar: Broad Spectrum

| Configuration | Class          | Type     | Object       | Imaging Window | Transit | Page Ref | Comments                                 |
|---------------|----------------|----------|--------------|----------------|---------|----------|--|
| HyperStar     | Broad Spectrum | DN       | IC-2118      | *07:36-10:48   | 07:42   | 02       | Eridanus: Witch Head Nebula              |
| HyperStar     | Broad Spectrum | DN       | NGC-1788     | 07:36 – 09:40  | 07:47   | 02       | Orion: Foxface Nebula                    |
| HyperStar     | Broad Spectrum | DN, N    | LDN-1622 R1  | 07:36 – 10:54  | 08:34   | 15       | Comp2! Orion: DN Band                    |
| HyperStar     | Broad Spectrum | DN, N    | LDN-1622 R2  | 07:36 – 10:54  | 08:34   | 15       | Orion: DN Band                           |
| HyperStar     | Broad Spectrum | DN, N    | LDN-1622 R3  | 07:36 – 10:54  | 08:34   | 15       | Orion: DN Band                           |
| HyperStar     | Broad Spectrum | OC       | NGC-2632     | 08:10 – 02:36  | 11:20   | 31       | Cancer: Beehive Cluster                  |
| HyperStar     | Broad Spectrum | Galaxies | M-81 & M-82  | 09:25 – 03:52  | 12:35   | 33       | Ursa Major: Bode's Cigar                 |
| HyperStar     | Broad Spectrum | Galaxies | 2574 Group   | 09:50 – 04:32  | 01:08   | 37       | Leo: Galaxy Group 2574                   |
| HyperStar     | Broad Spectrum | Galaxies | Leo Group    | 10:36 – 04:22  | 01:26   | 38       | Leo: Leo Galaxy Group                    |
| HyperStar     | Broad Spectrum | G, PN    | M-108 & M-97 | 10:05 – 05:43  | 01:51   | 39       | Ursa Major: Galaxy & Planetary Nebula    |
| HyperStar     | Broad Spectrum | Galaxies | Group 106    | 11:12 – 05:48  | 02:58   | 46       | Canes Venatici: Galaxy Group with M-106  |
| HyperStar     | Broad Spectrum | Galaxies | Group 84     | 12:12 – 05:48  | 03:04   | 48       | Virgo: Markarian Chain                   |
| HyperStar     | Broad Spectrum | Galaxies | Group 84-2   | 12:12 – 05:48  | 03:04   | 48       | Virgo: Markarian Chain                   |
| HyperStar     | Broad Spectrum | Galaxies | Group 58     | 12:27 – 05:48  | 03:17   | 52       | Virgo: Galaxy Group associated with M-58 |
|               |                |          |              |                |         |          |  |

# Prospective Imaging Objects – February

## Imaging Summary February 15, 2025

Astronomical Dusk = 07:36

Astronomical Dawn = 05:48

### Focal Reducer: Nebula

| Configuration | Class  | Type   | Object        | Imaging Window | Transit | Page Ref | Comments                                    |
|---------------|--------|--------|---------------|----------------|---------|----------|---|
| Focal Reducer | Nebula | Nebula | IC-405        | 07:36 – 11:39  | 07:57   | 04       | Auriga: Flaming Star Nebula                 |
| Focal Reducer | Nebula | Nebula | IC-410        | 07:36 – 11:42  | 08:02   | 04       | Auriga: Tadpoles                            |
| Focal Reducer | Nebula | Nebula | M-77, NGC1055 | 07:36 – 11:49  | 08:08   | 06       | Comp2! Auriga: The Spider and the Fly       |
| Focal Reducer | Nebula | Nebula | NGC-2024      | 07:36 – 10:23  | 08:22   | 11       | Orion: Flame Nebula                         |
| Focal Reducer | Nebula | Nebula | NGC-2170      | 07:36 – 10:19  | 08:48   | 17       | Monoceros: Angel Nebula                     |
| Focal Reducer | Nebula | Nebula | SH 2-261      | 07:36 – 11:55  | 08:49   | 18       | Orion: Lower's Nebula                       |
| Focal Reducer | Nebula | Nebula | NGC-2174      | 07:36 – 12:07  | 08:50   | 19       | Orion: Monkey Head Nebula                   |
| Focal Reducer | Nebula | Nebula | IC-443        | 07:36 – 12:19  | 08:57   | 20       | Gemini: Jellyfish Nebula                    |
| Focal Reducer | Nebula | Nebula | NGC-2237      | 07:36 – 11:43  | 09:10   | 22       | Monoceros: Rosett Nebula Core               |
| Focal Reducer | Nebula | Nebula | NGC-2264      | 07:36 – 12:10  | 09:21   | 24       | Comp2! Monoceros: Xmas Tree and Cone Nebula |
| Focal Reducer | Nebula | Nebula | NGC-2264      | 07:36 – 12:10  | 09:21   | 24       | Rot! Monoceros: Xmas Tree and Cone Nebula   |
| Focal Reducer | Nebula | Nebula | NGC-2264      | 07:36 – 12:10  | 09:21   | 25       | Monoceros: Xmas Tree and Cone Nebula        |



# Prospective Imaging Objects – February

## Imaging Summary February 15, 2025

Astronomical Dusk = 07:36

Astronomical Dawn = 05:48

### Focal Reducer: Broad Spectrum

| Configuration | Class          | Type     | Object           | Imaging Window | Transit | Page Ref | Comments                               |
|---------------|----------------|----------|------------------|----------------|---------|----------|--|
| Focal Reducer | Broad Spectrum | DN, BN   | NGC-1788         | 07:36 – 09:40  | 07:47   | 03       | Orion: Foxface Nebula                  |
| Focal Reducer | Broad Spectrum | DN, BN   | M-78             | 07:36 – 10:38  | 08:27   | 13       | Comp2! Orion: Dark Nebula              |
| Focal Reducer | Broad Spectrum | DN, BN   | M-78             | 07:36 – 10:38  | 08:27   | 14       | Orion: Dark Nebula                     |
| Focal Reducer | Broad Spectrum | DN       | LDN-1622         | 07:36 – 10:54  | 08:34   | 16       | Comp2! Rot90° Orion: Dark Nebula       |
| Focal Reducer | Broad Spectrum | DN       | LDN-1622         | 07:36 – 10:54  | 08:34   | 16       | Orion: Dark Nebula                     |
| Focal Reducer | Broad Spectrum | OC       | M-35, NGC-2158   | 07:36 – 12:14  | 08:49   | 19       | Gemini: Open Cluster Pair              |
| Focal Reducer | Broad Spectrum | BN       | IC-2169          | 07:36 – 12:01  | 09:11   | 23       | Monoceros: Reflection Nebula           |
| Focal Reducer | Broad Spectrum | Galaxies | UGC-3697         | 07:36 – 12:52  | 09:51   | 27       | Camelopardalis: Integral Sign Galaxy   |
| Focal Reducer | Broad Spectrum | Galaxies | M-81 & M-82      | 09:25 – 03:52  | 12:35   | 34       | Ursa Major: Bode's Cigar               |
| Focal Reducer | Broad Spectrum | Galaxies | M-95 & M-96      | 10:34 – 04:19  | 01:23   | 38       | Leo: Galaxy Pair M-95, M-96            |
| Focal Reducer | Broad Spectrum | Galaxies | NGC-3628 et. El. | 11:05 – 05:01  | 01:59   | 41       | Comp2 Leo: Lio Trio of Galaxies        |
| Focal Reducer | Broad Spectrum | Galaxies | M-106            | 11:21 – 05:48  | 02:58   | 46       | Canes Venatici: Galaxy Pair            |
| Focal Reducer | Broad Spectrum | Galaxies | M-84 et. El.     | 12:12 – 05:48  | 03:04   | 48       | Virgo: Markarian's Chain               |
| Focal Reducer | Broad Spectrum | Galaxies | NGC4631, 4656    | 11:48 – 05:48  | 03:21   | 54       | Canes Venatici: Whale and Hockey Stick |
| Focal Reducer | Broad Spectrum | Galaxies | M-59 Group       | 12:32 – 05:48  | 03:21   | 54       | Virgo: Galaxy Group M-59 & M-60        |
| Focal Reducer | Broad Spectrum | Galaxies | NGC-4725 et. El. | 12:08 – 05:48  | 03:29   | 55       | Coma Berenices: Galaxy Group NGC-4725  |
| Focal Reducer | Broad Spectrum | Galaxies | Abell-1656       | 12:13 – 05:48  | 03:39   | 57       | Coma Berenices: Coma Galaxy Cluster    |

# Prospective Imaging Objects – February

## Imaging Summary February 15, 2025

Astronomical Dusk = 07:36

Astronomical Dawn = 05:48

### Primary Focus: Nebula

| Configuration | Class  | Type   | Object   | Imaging Window | Transit | Page Ref | Comments                            |
|---------------|--------|--------|----------|----------------|---------|----------|-------------------------------------|
| Primary Focus | Nebula | Nebula | IC-405   | 07:36 – 11:39  | 07:57   | 04       | Auriga: Flaming Star Nebula         |
| Primary Focus | Nebula | Nebula | IC-410   | 07:36 – 11:42  | 08:02   | 05       | Auriga: Tadpoles                    |
| Primary Focus | Nebula | Nebula | IC-418   | *07:36-10:52   | 08:07   | 05       | Lepus: Spirograph Nebula            |
| Primary Focus | Nebula | Nebula | IC-417   | 07:36 – 11:49  | 08:08   | 06       | Auriga: The Spider                  |
| Primary Focus | Nebula | Nebula | NGC-1931 | 07:36 – 11:52  | 08:11   | 07       | Auriga: The Fly                     |
| Primary Focus | Nebula | Nebula | M-1      | 07:36 – 11:35  | 08:15   | 07       | Taurus: Crab Nebula                 |
| Primary Focus | Nebula | Nebula | M-42     | 07:36 – 09:54  | 08:15   | 09       | Orion: The Orion Nebula             |
| Primary Focus | Nebula | Nebula | NGC-1977 | 07:36 – 09:58  | 08:15   | 09       | Orion: Running Man Nebula (C-6)     |
| Primary Focus | Nebula | Nebula | NGC-1977 | 07:36 – 09:58  | 08:15   | 10       | Orion: Running Man Nebula           |
| Primary Focus | Nebula | Nebula | NGC-2024 | 07:36 – 10:23  | 08:22   | 12       | Orion: Flame Nebula                 |
| Primary Focus | Nebula | Nebula | B-33     | 07:36 – 10:19  | 08:21   | 12       | Orion: Horsehead Nebula             |
| Primary Focus | Nebula | Nebula | NGC-2022 | 07:36 – 11:09  | 908:22  | 12       | Orion: Planetary Nebula             |
| Primary Focus | Nebula | Nebula | NGC-2170 | 07:36 – 10:19  | 08:48   | 17       | Monoceros: Angle Nebula             |
| Primary Focus | Nebula | Nebula | SH 2-261 | 07:36 – 11:55  | 08:49   | 18       | Orion: Lower's Nebula               |
| Primary Focus | Nebula | Nebula | NGC-2174 | 07:36 – 12:07  | 08:50   | 19       | Orion: Monkey Head Nebula           |
| Primary Focus | Nebula | Nebula | IC-2162  | 07:36 – 12:05  | 08:53   | 20       | Orion: Nebula                       |
| Primary Focus | Nebula | Nebula | IC-443   | 07:36 – 12:19  | 08:57   | 21       | Gemini: Jellyfish Nebula            |
| Primary Focus | Nebula | Nebula | IC-2165  | *07:36-11:44   | 09:02   | 21       | Canis Major: Small Planetary Nebula |
| Primary Focus | Nebula | Nebula | SH 2-249 | 07:36 – 12:25  | 09:02   | 21       | Gemini: Nebula                      |
| Primary Focus | Nebula | Nebula | NGC-2237 | 07:36 – 11:43  | 09:10   | 22       | Monoceros: Rosette Nebula Core      |
| Primary Focus | Nebula | Nebula | NGC-2261 | 07:36 – 12:05  | 09:19   | 24       | Monoceros: Hubble's Variable Nebula |
| Primary Focus | Nebula | Nebula | NGC-2264 | 07:36 – 12:10  | 09:21   | 25       | Monoceros: Xmas Tree Cluster        |
| Primary Focus | Nebula | Nebula | NGC-2264 | 07:36 – 12:10  | 09:21   | 25       | Monoceros: Cone Nebula              |
| Primary Focus | Nebula | Nebula | IC-2177  | *07:36-12:37   | 09:44   | 27       | Monoceros: Seagull Nebula head      |

## Prospective Imaging Objects – February

| Configuration | Class  | Type   | Object   | Imaging Window | Transit | Page Ref | Comments                           |
|---------------|--------|--------|----------|----------------|---------|----------|------------------------------------|
| Primary Focus | Nebula | Nebula | NGC-2346 | *07:36-12:29   | 09:49   | 27       | Monoceros: Hourglass Nebula        |
| Primary Focus | Nebula | Nebula | NGC-2359 | *07:36-12:37   | 09:58   | 28       | Canis Major: Thor's Helmet         |
| Primary Focus | Nebula | Nebula | NGC-2371 | 07:36 – 01:40  | 10:05   | 28       | Gemini: Candy Wrapper Nebula       |
| Primary Focus | Nebula | Nebula | Abell-21 | 07:36 – 01:09  | 10:09   | 29       | Gemini: Medusa Nebula              |
| Primary Focus | Nebula | Nebula | NGC-2392 | 07:36 – 01:28  | 10:09   | 29       | Gemini: Eskimo Nebula              |
| Primary Focus | Nebula | Nebula | M-46     | *07:51-12:53   | 10:21   | 30       | Puppis: Open Cluster and Planetary |
| Primary Focus | Nebula | Nebula | NGC-2440 | *08:15-12:33   | 10:22   | 31       | Puppis: Bow-Tie Nebula             |
| Primary Focus | Nebula | PN     | NGC-2610 | *08:52-01:37   | 11:13   | 32       | Hydra: NGC-2610 Small PN           |
| Primary Focus | Nebula | PN     | NGC-3242 | *11:04-03:09   | 01:04   | 37       | Hydra: Ghost of Jupiter            |
| Primary Focus | Nebula | PN     | M-97     | 10:08 – 05:47  | 01:54   | 40       | Ursa Major: Owl Nebula             |
| Primary Focus | Nebula | PN     | NGC-4361 | *12:57-05:10   | 03:03   | 47       | Corvus: Lawn Sprinkler Nebula      |
| Primary Focus | Nebula | PN     | IC-3568  | *10:16-05:48   | 03:12   | 50       | Camelopardalis: Lemon Slice Nebula |
|               |        |        |          |                |         |          |                                    |
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# Prospective Imaging Objects – February

## Imaging Summary February 15, 2025

Astronomical Dusk = 07:36

Astronomical Dawn = 05:48

### Primary Focus: Broad Spectrum

| Configuration | Class          | Type     | Object   | Imaging Window | Transit | Page Ref | Comments                                 |
|---------------|----------------|----------|----------|----------------|---------|----------|--|
| Primary Focus | Broad Spectrum | DN       | IC-2118  | *07:36-10:48   | 07:42   | 02       | Eridanus: Witch Head Nebula              |
| Primary Focus | Broad Spectrum | RN       | NGC-1788 | 07:36 – 09:40  | 07:47   | 03       | Orion: Foxface Nebula                    |
| Primary Focus | Broad Spectrum | Globular | M-79     | *07:36-09:08   | 08:04   | 05       | Lepus: Med Globular                      |
| Primary Focus | Broad Spectrum | OC       | M-38     | 07:36 – 11:52  | 08:09   | 06       | Auriga: Starfish Cluster                 |
| Primary Focus | Broad Spectrum | OC       | M-36     | 07:36 – 11:57  | 08:16   | 10       | Auriga: Open Star Cluster NGC-1960       |
| Primary Focus | Broad Spectrum | Galaxy   | NGC-1961 | 07:36 – 11:40  | 08:22   | 13       | Camelopardalis: Galaxies                 |
| Primary Focus | Broad Spectrum | DN       | M-78     | 07:36 – 10:38  | 08:27   | 14       | Orion: Dark and Bright Nebula            |
| Primary Focus | Broad Spectrum | OC       | M-37     | 07:36 – 12:11  | 08:32   | 14       | Auriga: Salt and Pepper Cluster          |
| Primary Focus | Broad Spectrum | DN       | LDN-1622 | 07:36 – 10:54  | 08:34   | 17       | Orion: Dark Nebula                       |
| Primary Focus | Broad Spectrum | RN       | IC-2169  | 07:36 – 12:01  | 09:11   | 23       | Monoceros: Reflection Nebula             |
| Primary Focus | Broad Spectrum | OC       | M-41     | *07:36-11:12   | 09:26   | 26       | Canis Major: Open Star Cluster NGC-2287  |
| Primary Focus | Broad Spectrum | OC       | M-50     | *07:36-12:45   | 09:42   | 26       | Monoceros: Open Star Cluster NGC-2323    |
| Primary Focus | Broad Spectrum | Galaxy   | UGC-3697 | 07:36 – 12:52  | 09:51   | 28       | Camelopardalis: Integral Sign Galaxy     |
| Primary Focus | Broad Spectrum | OC       | M-47     | *07:36-12:53   | 10:16   | 29       | Puppis: Open Cluster NGC-2422            |
| Primary Focus | Broad Spectrum | Galaxy   | NGC-2403 | 07:36 – 01:52  | 10:17   | 30       | Camelopardalis: Med Barred Spiral Galaxy |
| Primary Focus | Broad Spectrum | GC       | NGC-2419 | 07:36 – 02:05  | 10:18   | 30       | Lynx: Intergalactic Wanderer             |
| Primary Focus | Broad Spectrum | OC       | M-93     | *09:04-11:48   | 10:24   | 31       | Puppis: Butterfly Cluster                |
| Primary Focus | Broad Spectrum | OC       | M-48     | 09:22 – 12:30  | 10:53   | 31       | Hydra: M-48 (NGC-2548)                   |
| Primary Focus | Broad Spectrum | OC       | M-67     | 08:41 – 02:27  | 11:31   | 32       | Cancer: M-67 (NGC-2682)                  |
| Primary Focus | Broad Spectrum | Galaxy   | NGC-2685 | 07:52 – 03:25  | 11:35   | 33       | Ursa Major: Helix Galaxy                 |
| Primary Focus | Broad Spectrum | Galaxy   | NGC-2903 | 08:58 – 03:32  | 12:12   | 33       | Leo: Med Galaxy                          |
| Primary Focus | Broad Spectrum | Galaxy   | M-81     | 09:21 – 03:55  | 12:35   | 34       | Ursa Major: Bode's Nebula                |
| Primary Focus | Broad Spectrum | Galaxy   | M-82     | 09:25 – 03:52  | 12:35   | 34       | Ursa Major: Cigar Galaxy                 |
| Primary Focus | Broad Spectrum | Galaxy   | NGC-3115 | *09:44-03:50   | 12:44   | 35       | Sextans: Spindel Galaxy                  |

## Prospective Imaging Objects – February

| Configuration | Class          | Type     | Object           | Imaging Window | Transit | Page Ref | Comments  |
|---------------|----------------|----------|------------------|----------------|---------|----------|---|
| Primary Focus | Broad Spectrum | Galaxy   | UGC-5470         | 09:57 – 03:45  | 12:48   | 35       | Leo: Powder Keg Galaxy                          |
| Primary Focus | Broad Spectrum | Galaxies | NGC-3166, 3169   | 10:32 – 03:20  | 12:53   | 35       | Sextans: Galaxy Pair                            |
| Primary Focus | Broad Spectrum | Galaxies | Hickson 44       | 09:43 – 04:18  | 12:57   | 36       | Leo: Galaxy Cluster                             |
| Primary Focus | Broad Spectrum | Galaxy   | NGC-3184         | 09:14 – 04:47  | 12:58   | 36       | Ursa Major: Face On galaxy                      |
| Primary Focus | Broad Spectrum | Galaxies | NGC 3227, 3226   | 09:52 – 04:20  | 01:03   | 36       | Leo: Interacting galaxy pair                    |
| Primary Focus | Broad Spectrum | Galaxy   | IC-2574          | 09:50 – 04:32  | 01:08   | 37       | Leo: Coddington's Nebula                        |
| Primary Focus | Broad Spectrum | Galaxies | Leo Trio 2       | 10:35 – 04:26  | 01:27   | 38       | Leo: NGC-3379, 3384, 3389                       |
| Primary Focus | Broad Spectrum | Galaxies | NGC-3561 et. El. | 10:23 – 05:24  | 01:50   | 39       | Ursa Major: Ambartsumian's Knot                 |
| Primary Focus | Broad Spectrum | Galaxy   | M-108            | 10:05 – 05:43  | 01:51   | 39       | Ursa Major: Med Galaxy NGC-3556                 |
| Primary Focus | Broad Spectrum | Galaxies | M-65 et. El.     | 11:05 – 05:01  | 01:59   | 40       | Comp2 Leo: Lio Trio of Galaxies                 |
| Primary Focus | Broad Spectrum | Galaxy   | NGC-3628         | 11:05 – 05:01  | 01:59   | 41       | Leo: Edge on galaxy                             |
| Primary Focus | Broad Spectrum | Galaxies | M-65, M-66       | 11:05 – 04:58  | 01:58   | 42       | Leo: Galaxy Pair                                |
| Primary Focus | Broad Spectrum | Galaxies | Arp-214          | 10:25 – 05:48  | 02:12   | 42       | Ursa Major: Galaxy Pair                         |
| Primary Focus | Broad Spectrum | Galaxies | NGC-3746 et. El. | 11:02 – 05:38  | 02:17   | 42       | Leo: Copeland's Septet                          |
| Primary Focus | Broad Spectrum | Galaxies | Abell 1367       | 11:14 – 05:41  | 02:24   | 43       | Leo: Galaxy Cluster                             |
| Primary Focus | Broad Spectrum | Galaxies | Arp-248          | *11:36-05:18   | 02:26   | 43       | Ursa Major: Wild's Triplet                      |
| Primary Focus | Broad Spectrum | Galaxy   | M-109            | 10:50 – 05:48  | 02:37   | 43       | Ursa Major: Face On Med Galaxy                  |
| Primary Focus | Broad Spectrum | Galaxy   | NGC-4027         | *12:37-04:38   | 02:38   | 44       | Corvus: Irregular small Galaxy                  |
| Primary Focus | Broad Spectrum | Galaxies | Arp-244          | *12:37-04:46   | 02:41   | 44       | Corvus: Antennae Galaxies                       |
| Primary Focus | Broad Spectrum | Galaxy   | M-98             | 11:55 – 05:48  | 02:53   | 44       | Coma Berenices: Barred Spiral Galaxy NGC-4192   |
| Primary Focus | Broad Spectrum | Galaxy   | NGC-4236         | 11:44 – 05:48  | 02:56   | 45       | Draco: Galaxy NGC-4236                          |
| Primary Focus | Broad Spectrum | Galaxy   | NGC-4244         | 11:17 – 05:48  | 02:56   | 45       | Canes Venatici: Silver Needle Galaxy            |
| Primary Focus | Broad Spectrum | Galaxy   | M-99             | 12:01 – 05:48  | 02:58   | 45       | Coma Berenices: St. Katherines Wheel            |
| Primary Focus | Broad Spectrum | Galaxy   | M-61             | 12:36 – 05:33  | 03:01   | 46       | Virgo: Sm/Med Face-on Spiral Galaxy             |
| Primary Focus | Broad Spectrum | Galaxies | Winnecke 4       | 11:18 – 05:48  | 03:01   | 47       | Ursa Major: Galaxy Cluster                      |
| Primary Focus | Broad Spectrum | Galaxies | M-100            | 12:02 – 05:48  | 03:02   | 47       | Coma Berenices: Face on Galaxy & other galaxies |
| Primary Focus | Broad Spectrum | Galaxy   | NGC-4449         | 11:22 – 05:48  | 03:07   | 49       | Candes Venatici: Irregular Galaxy               |
| Primary Focus | Broad Spectrum | Galaxy   | M-49             | 12:31 – 05:48  | 03:09   | 49       | Virgo: Elliptical Galaxy                        |

# Prospective Imaging Objects – February

| Configuration | Class          | Type     | Object           | Imaging Window | Transit | Page Ref | Comments                               |
|---------------|----------------|----------|------------------|----------------|---------|----------|--|
| Primary Focus | Broad Spectrum | Galaxy   | M-87             | 12:19 – 05:48  | 03:10   | 49       | Virgo: Elliptical Galaxy               |
| Primary Focus | Broad Spectrum | Galaxy   | NGC-4490         | 11:27 – 05:48  | 03:09   | 50       | Canes Venatici: Cocoon Galaxy          |
| Primary Focus | Broad Spectrum | Galaxies | M-91             | 12:17 – 05:48  | 03:14   | 50       | Coma Berenices: Galaxy Pair            |
| Primary Focus | Broad Spectrum | Galaxies | M-89             | 12:23 – 05:48  | 03:15   | 51       | Virgo: Elliptical Galaxy & two others  |
| Primary Focus | Broad Spectrum | Galaxy   | NGC-4559         | 11:49 – 05:48  | 03:15   | 35       | Coma Berenices: Barred Spiral Galaxy   |
| Primary Focus | Broad Spectrum | Galaxies | NGC-4567 et. El. | 12:28 – 05:48  | 03:15   | 51       | Virgo: Galaxy Group                    |
| Primary Focus | Broad Spectrum | Galaxy   | NGC-4565         | 11:53 – 05:48  | 03:15   | 52       | Coma Berenices: Edge on Galaxy         |
| Primary Focus | Broad Spectrum | Galaxy   | M-90             | 12:23 – 05:48  | 03:16   | 52       | Virgo: Galaxy Group                    |
| Primary Focus | Broad Spectrum | Galaxy   | M-58             | 12:27 – 05:48  | 03:17   | 53       | Virgo: Barred Spiral Galaxy NGC-4579   |
| Primary Focus | Broad Spectrum | Globular | M-68             | *01:37-05:10   | 03:18   | 53       | Hydra: Med Globular Cluster            |
| Primary Focus | Broad Spectrum | Galaxy   | M-104            | *12:37-05:48   | 03:32   | 53       | Virgo: Sombrero Galaxy                 |
| Primary Focus | Broad Spectrum | Galaxies | NGC-4676 A&B     | 11:55 – 05:48  | 03:25   | 54       | Coma Berenices: The Mice               |
| Primary Focus | Broad Spectrum | Galaxies | NGC-4725         | 12:08 – 05:48  | 03:29   | 55       | Coma Berenices: Galaxy Group           |
| Primary Focus | Broad Spectrum | Galaxy   | M-94             | 11:47 – 05:48  | 03:30   | 55       | Canes Venatici: Bright Galaxy          |
| Primary Focus | Broad Spectrum | Galaxy   | M-4731           | *12:49-05:48   | 03:30   | 56       | Virgo: Barred Spiral Galaxy            |
| Primary Focus | Broad Spectrum | Galaxies | NGC-4762, 4754   | 12:44 – 05:48  | 03:32   | 56       | Virgo: Edge on and Elliptical galaxies |
| Primary Focus | Broad Spectrum | Galaxy   | M-64             | 12:22 – 05:48  | 03:36   | 56       | Coma Berenices: Bright Galaxy          |
| Primary Focus | Broad Spectrum | Galaxies | Abell-1656       | 12:13 – 05:48  | 03:39   | 57       | Coma Berenices: Coma Galaxy Cluster    |
| Primary Focus | Broad Spectrum | Globular | M-53             | 12:46 – 05:48  | 03:52   | 57       | Coma Berenices: Med Globular           |
| Primary Focus | Broad Spectrum | Galaxy   | NGC-5033         | 12:14 – 05:48  | 03:52   | 58       | Canes Venatici: Spiral Galaxy          |
| Primary Focus | Broad Spectrum | Galaxy   | M-63             | 12:12 – 05:48  | 03:55   | 58       | Canes Venatici: Sunflower Galaxy       |
| Primary Focus | Broad Spectrum | Globular | NGC-5053         | 12:50 – 05:48  | 03:55   | 58       | Coma Berenices: Loose Globular         |
| Primary Focus | Broad Spectrum | Galaxy   | M-51             | 12:23 – 05:48  | 04:09   | 59       | Canes Venatici: Whirlpool Galaxy       |
| Primary Focus | Broad Spectrum | Globular | M-3              | 12:55 – 05:48  | 04:21   | 59       | Canes Venatici: Med Globular NGC-5272  |
| Primary Focus | Broad Spectrum | Galaxy   | NGC-5395 et. El. | 12:59 - 05:48  | 04:37   | 59       | Canes Venatici: Heron Galaxy           |
| Primary Focus | Broad Spectrum | Galaxy   | M-101            | 12:56 – 05:48  | 04:42   | 60       | Ursa Major: Pinwheel Galaxy            |
| Primary Focus | Broad Spectrum | Globular | NGC-5466         | 01:18 – 05:48  | 04:44   | 60       | Bootes: Med Globular                   |
| Primary Focus | Broad Spectrum | Galaxy   | M-102            | 02:00 – 05:48  | 05:45   | 60       | Draco: Spindel Galaxy                  |

# Prospective Imaging Objects – February