Prospective Imaging Objects – February

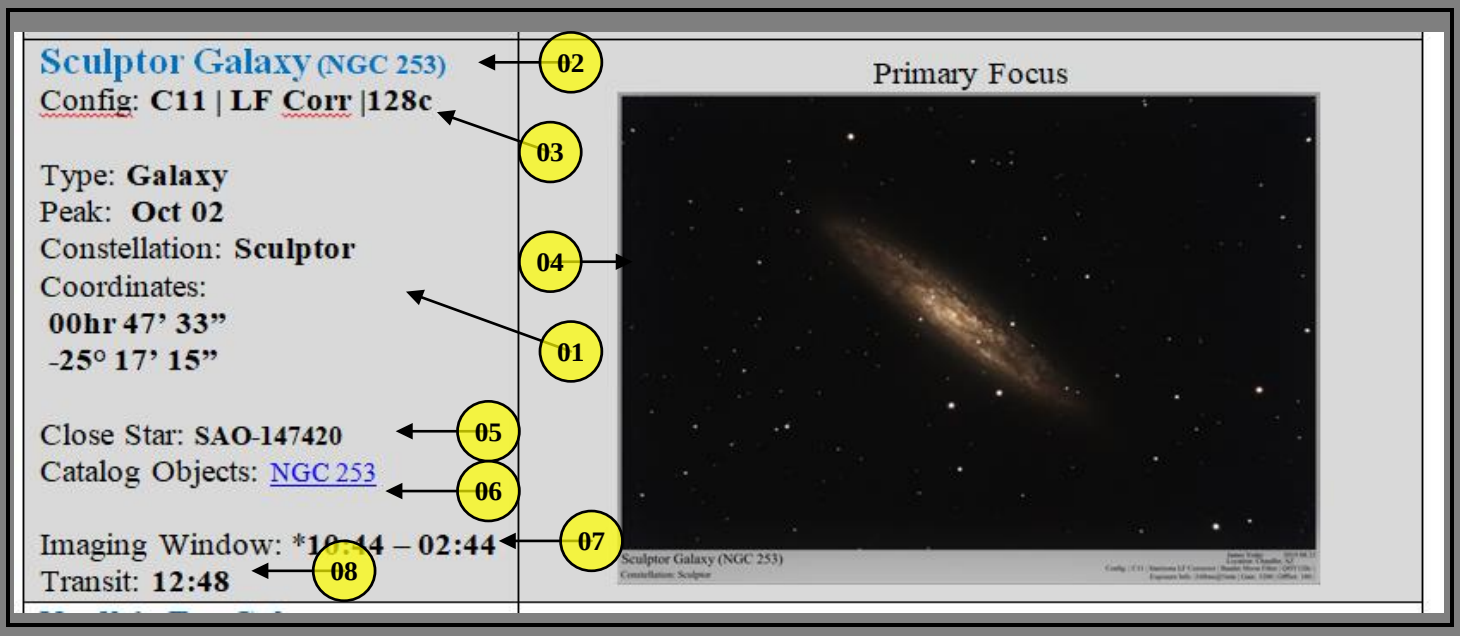
Astronomical Data

Sunrise	Sunset	Astronomical Dusk	Astronomical Dawn	Imaging	Data Date
07:11am	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° x4.58°	2.0	2.59"/pix (Undersampled)

How to use this document



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

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

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

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

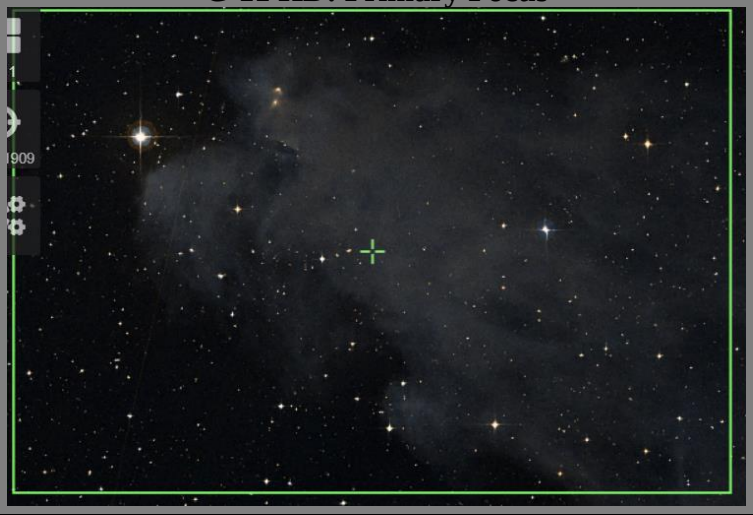
05: Close Star – A fairly bright star close to the target that can be used to check focus and sync the telescope before the imaging session begins.

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

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

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

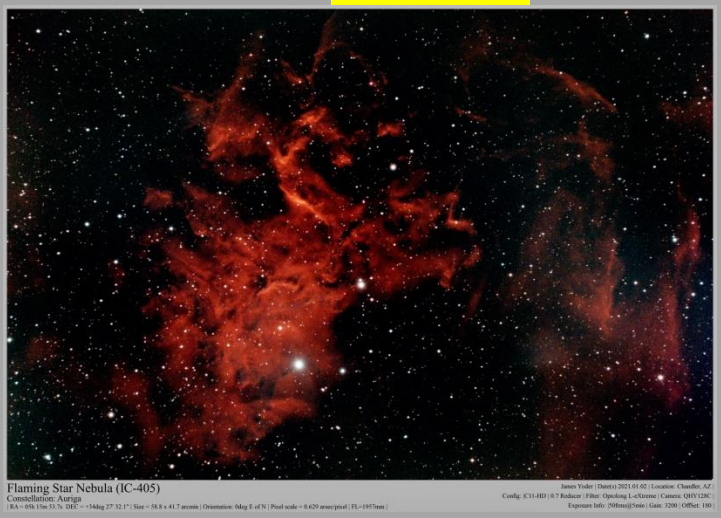
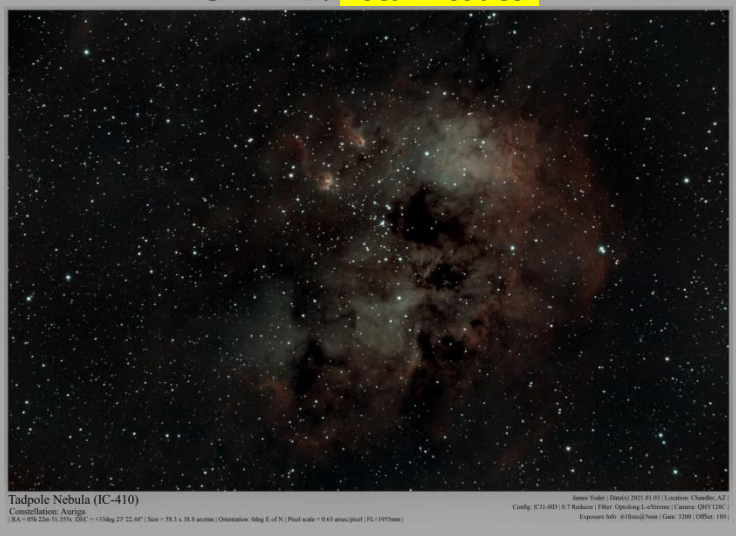
Prospective Imaging Objects – February

Witch Head Nebula (IC 2118) Config: **C11-HD | HS | ZWO6200MC** Type: **Bright Nebula** Peak: Constellation: **Eridanus** Coordinates: **05hr 05’ 19.872”** **-06° 56’ 00.365”** Close Star: SAO-131794 Catalog Objects: IC 2118 Imaging Window: ***07:36 – 10:48** Transit: **07:42 | 49°**	**C-11 HD: HyperStar v4** 
Witch Head Nebula (IC 2118) Config: |C11HD|ZWO6200MC| Type: **Bright Nebula** Peak: Constellation: **Eridanus** Coordinates: **05hr 07’ 07”** **-06° 20’ 07”** Close Star: SAO-131794 Catalog Objects: IC 2118 Imaging Window: ***07:36 – 10:48** Transit: **07:42 | 49°**	**C-11 HD: Primary Focus** 
Foxface Nebula (NGC 1788) Config: |C11|HS|ZWO6200MCc| Type: **Bright Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 06’ 10”** **-04° 04’ 26”** Close Star: SAO-131794 Catalog Objects: NGC 1788 Imaging Window: **07:36 – 09:40** Transit: **07:47**	**Hyperstar** 

Prospective Imaging Objects – February

Foxface Nebula (NGC 1788) Config: |C11-HD|FR|ZWO6200MC| Type: **Bright Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 05’ 52”** **-03° 22’ 22”** Close Star: SAO-131794 Catalog Objects: NGC 1788 Imaging Window: **07:36 – 09:40** Transit: **07:47**	**C-11 HD: Focal Reducer** 
Foxface Nebula (NGC 1788) Config: |C11HD|ZWO6200MC| Type: **Bright Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 06’ 26”** **-03° 20’ 13”** Close Star: SAO-131794 Catalog Objects: NGC 1788 Imaging Window: **07:36 – 09:40** Transit: **07:47**	**C-11 HD: Primary Focus** 
Flaming Star Nebula (IC-405) Config: **C11-HD | HS | ZWO6200MC** Type: **Bright Nebula** Peak: Constellation: **Auriga** Coordinates: **05hr 19’ 38”** **33° 49’ 10”** Close Star: SAO-77168 (Elnath) Catalog Objects: IC 405, IC 410 Imaging Window: **07:36 – 11:39** Transit: **07:57 | 89°**	**C-11 HD: HyperStar v4**  Flaming Star Nebula (IC-405, IC-410, IC-417) Constellation: Auriga

Prospective Imaging Objects – February

Flaming Star Nebula (IC 405) Config: |C11-HD|FR|ZWO6200MC| Type: **Bright Nebula** Peak: Constellation: **Auriga** Coordinates: **05hr 15’ 55”** **34° 29’ 08”** Close Star: SAO-77168 (Elnath) Catalog Objects: IC 405 Imaging Window: **07:36 – 11:39** Transit: **07:57 | 89°**	**C-11 HD: Focal Reducer** 
Flaming Star Nebula (IC 405) Config: |C11-HD|ZWO6200MC| Type: **Bright Nebula** Peak: Constellation: **Auriga** Coordinates: **05hr 16’ 37”** **34° 23’ 47”** Close Star: SAO-77168 (Elnath) Catalog Objects: IC 405 Imaging Window: **07:36 – 11:39** Transit: **07:57 | 89°**	**C-11 HD: Primary Focus** 
Tadpoles (IC 410) Config: |C11-HD|FR|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Auriga** Coordinates: **05hr 22’ 54”** **33° 23’ 31”** Close Star: SAO-77168 (Elnath) Catalog Objects: IC 410 Imaging Window: **07:36 – 11:42** Transit: **08:02 | 90°**	**C-11 HD: Focal Reducer** 

Prospective Imaging Objects – February

Tadpoles (IC 410) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Auriga** Coordinates: **05hr 22’ 37”** **33° 23’ 03”** Close Star: SAO-77168 (Elnath) Catalog Objects: IC 410 Imaging Window: **07:36 – 11:42** Transit: **08:02 | 90°**	**C-11 HD: Primary Focus** 
M-79 (NGC-1904) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Peak: Constellation: **Lepus** Coordinates: **05hr 24’ 11”** **-24° 31’ 25”** Close Star: SAO-170457 Catalog Objects: M 79 Imaging Window: ***07:36 – 09:08** Transit: **08:04 | 32°**	**C-11 HD: Primary Focus** 
Spirograph Nebula (IC 418) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Lepus** Coordinates: **05hr 27’ 28”** **-12° 41’ 48”** Close Star: SAO-132542 (Saiph) Catalog Objects: IC-418 Imaging Window: ***07:36 – 10:52** Transit: **08:07 | 44°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – February

The Spider and the Fly
(M-77, NGC-1055, NGC-1931)
Config: |C11-HD|FR|ZWO6200MC|
Type: **Diffuse Nebula**
Peak:
Constellation: **Auriga**

Camera Rotation - 90°
Frame 01
RA: **05hr 30’ 44”**DEC: **34° 20’ 41”**
Frame 02
RA: **05hr 27’ 55”**DEC: **34° 20’ 41”**

Close Star: SAO-77168 (Elnath)
Catalog Objects: IC-417, NGC-1931

Imaging Window: **07:36 – 11:49**
Transit: **08:08 | 89°**

C-11 HD: Focal Reducer
Composite!

The Spider (IC 417)
Config: |C11HD|ZWO6200MC|

Type: **Diffuse Nebula**
Peak:
Constellation: **Auriga**
Coordinates:
05hr 28’ 03”
34° 22’ 58”

Close Star: SAO-77168 (Elnath)
Catalog Objects: IC 417

Imaging Window: **07:36 – 11:49**
Transit: **08:08 | 89°**

C-11 HD: Primary Focus

Starfish Cluster (M-38)
Config: |C11HD|ZWO6200MC|

Type: **Open Cluster**
Constellation: **Auriga**
Coordinates:
05hr 28’ 43”
35° 51’ 18”

Close Star: **SAO-77168** (Elnath)
Catalog Objects: M-38

Imaging Window: **07:36 – 11:52**
Transit: **08:09 | 88°**

C-11 HD: Primary Focus

Prospective Imaging Objects – February

The Fly (NGC 1931) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Auriga** Coordinates: **05hr 31’ 24”** **34° 15’ 00”** Close Star: SAO-77168 (Elnath) Catalog Objects: NGC 1931 Imaging Window: **07:36 – 11:53** Transit: **08:11 | 89°**	**C-11 HD: Primary Focus** 
Crab Nebula (M 1) Config: |C1|LF|ZWO6200MC| Type: **Planetary Nebula** Peak: Constellation: **Taurus** Coordinates: **05hr 34’ 30”** **22° 00’ 59.9”** Close Star: SAO-77336 Catalog Objects: M 1 Imaging Window: **07:36 – 11:35** Transit: **08:15 | 79°**	Primary Focus 

Prospective Imaging Objects – February

The Orion Complex

Config: **C11 | HS | ZWO6200MC**

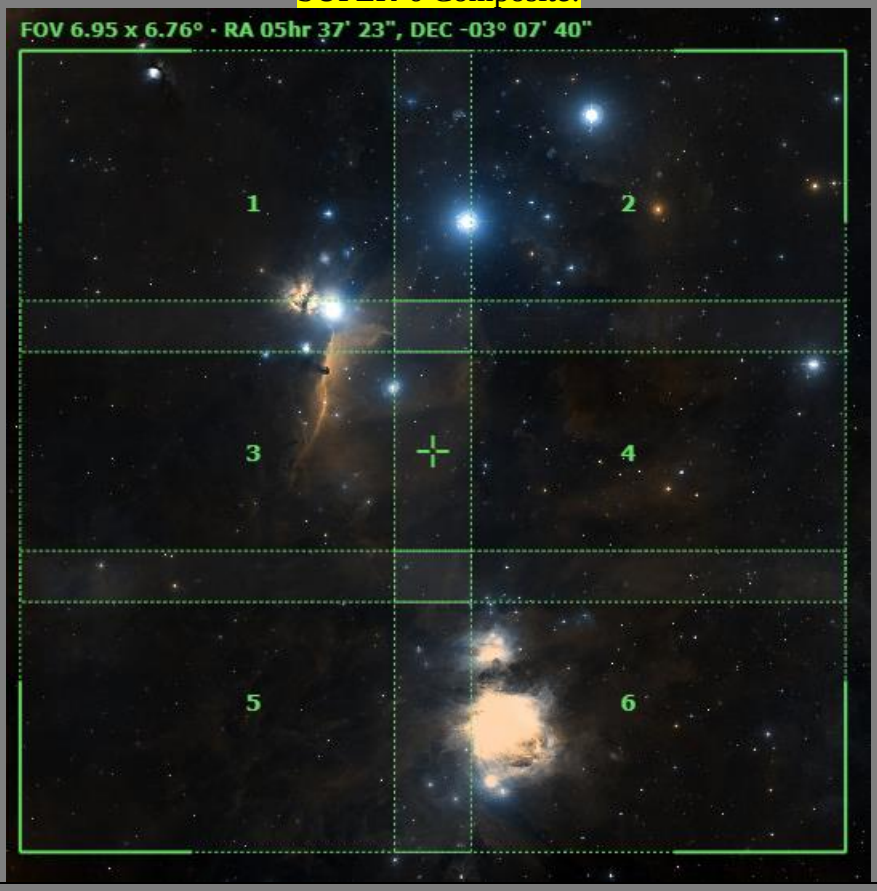
Type: **Diffuse Nebula**
Peak:
Constellation: **Orion**
Coordinates:
Frame 01
RA: **05hr 43' 42"** DEC: **-01° 01' 06"**
Frame 02
RA: **05hr 31' 05"** DEC: **-01° 01' 06"**
Frame 03
RA: **05hr 43' 42"** DEC: **-03° 07' 35"**
Frame 04
RA: **05hr 31' 04"** DEC: **-03° 07' 35"**
Frame 05
RA: **05hr 43' 43"** DEC: **-05° 14' 05"**
Frame 06
RA: **05hr 31' 04"** DEC: **-05° 14' 05"**

Close Star: SAO-132542 (Saiph)
Catalog Objects: M-42

Imaging Window: **07:36 – 09:54**
Transit: **08:15**

C-11 HD: HyperStar v4

SUPER-6 Composite!



The Orion Nebula (M 42)

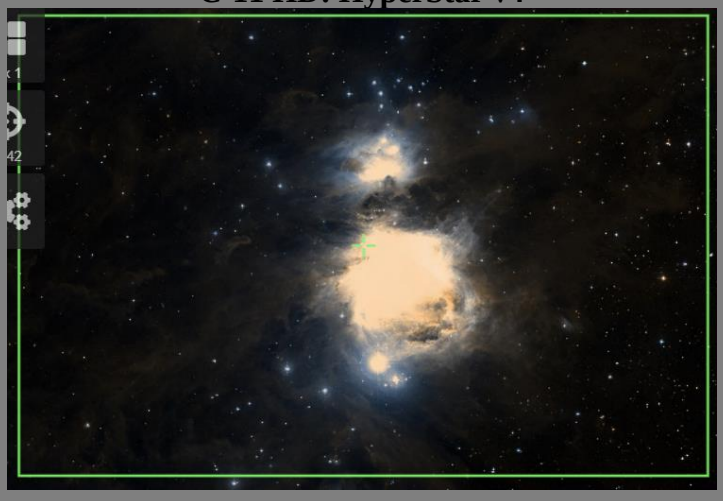
Config: **C11-HD | HS | ZWO6200MC**

Type: **Diffuse Nebula**
Peak:
Constellation: **Orion**
Coordinates:
05hr 35' 46"
-05° 15' 34"

Close Star: SAO-132542 (Saiph)
Catalog Objects: M-42

Imaging Window: **07:36 – 09:54**
Transit: **08:15**

C-11 HD: HyperStar v4



Prospective Imaging Objects – February

The Orion Nebula (M 42) Config: **C6-SE | HS | ZWO6200MC (Cropped)** Type: **Diffuse Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 35' 18.4"** **-05° 23' 51.0"** Close Star: SAO-132542 (Saiph) Catalog Objects: M-42 Imaging Window: **07:36 – 09:54** Transit: **08:15**	**C6-SE: HyperStar v4**  Orion Nebula (M-42) Constellation: Orion the hunter
The Orion Nebula (M 42) Config: |C1|LF|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 35' 09"** **-05° 24' 32"** Close Star: SAO-132542 (Saiph) Catalog Objects: M-42 Imaging Window: **07:36 – 09:54** Transit: **08:15**	Primary Focus  Orion Nebula (M-42) Constellation: Orion
Running Man Nebula (NGC 1977) Config: |C6-HD|FR|ZWO6200MC| Type: **Bright Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 35' 18.1"** **-04° 41' 25.9"** Close Star: SAO-132542 (Saiph) Catalog Objects: NGC-1977 Imaging Window: **07:36 – 09:58** Transit: **08:15 | 52°**	**C-6SE: Primary Focus**  Running Man Nebula (NGC-1977) Constellation: Orion the hunter

Prospective Imaging Objects – February

Running Man Nebula (NGC 1977)
Config: |C11HD|ZWO6200MC|

Type: **Bright Nebula**
Peak:
Constellation: **Orion**
Coordinates:
05hr 35’ 27”
-04° 53’ 09”

Close Star: SAO-132542 (Saiph)
Catalog Objects: NGC-1977

Imaging Window: **07:36 – 09:58**
Transit: **08:15 | 52°**

C-11 HD: Primary Focus

M-36 (NGC-1960)
Config: |C11HD|ZWO6200MC|

Type: **Open Cluster**
Constellation: **Auriga**
Coordinates:
05hr 36’ 18”
34° 08’ 27”

Close Star: **SAO-77168** (Elnath)
Catalog Objects: M-36/NGC-1960

Imaging Window: **07:36 – 11:57**
Transit: **08:16 | 89°**

C-11 HD: Primary Focus

Simeis 147 (SH2-240)
Config: **C11-HD | HS | ZWO6200MC**

Type: **Diffuse Nebula**
Constellation: **Taurus**

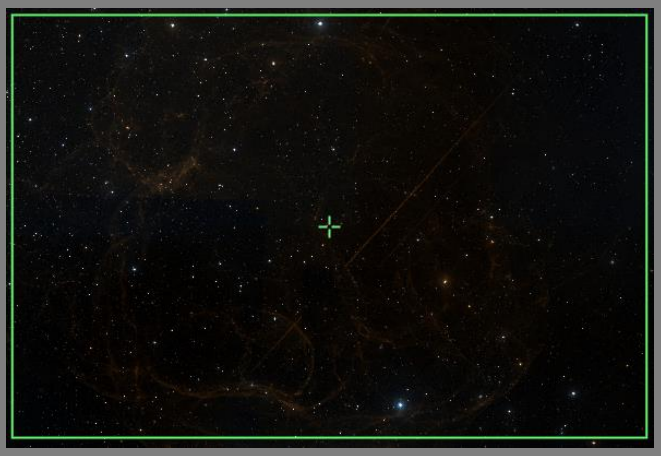
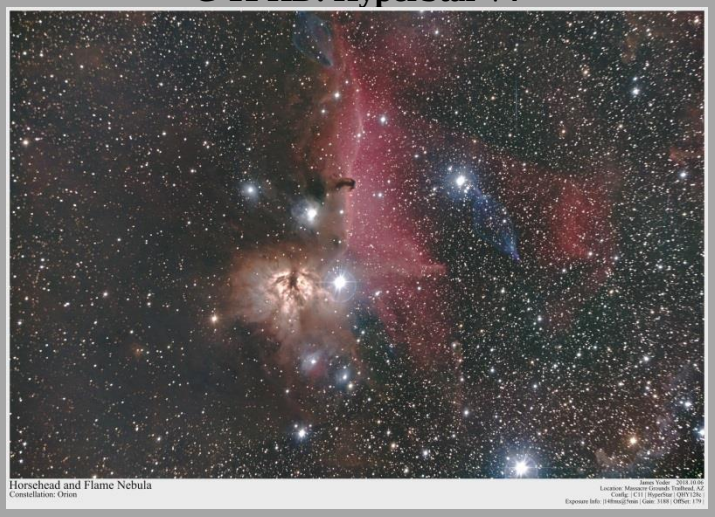
Camera Rotation - 90°
Coordinates:
Frame 01
RA: **05hr 45' 38"** DEC: **27º 56' 31"**
Frame 02
RA: **05hr 36’ 28”** DEC: **27º 56' 31"**

Close Star: **SAO-77168** (Elnath)
Catalog Objects:SH2-240

Imaging Window: **07:36 – 11:53**
Transit: **08:21 | 85°**

C-11 HD: HyperStar v4
Composite-2

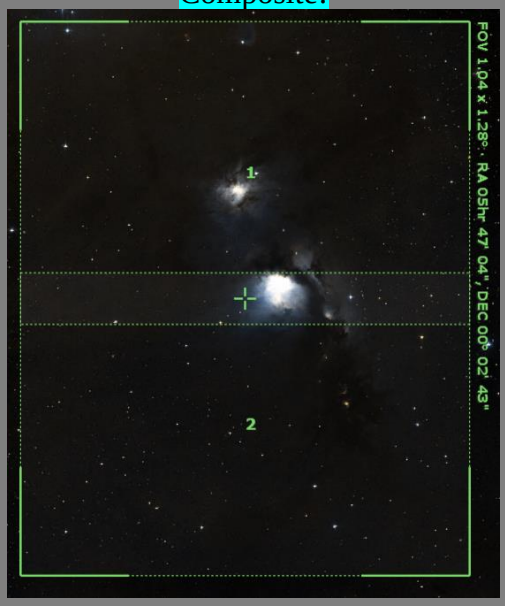
Prospective Imaging Objects – February

Simeis 147 (SH2-240) Config: **C11-HD	HS	ZWO6200MC** Type: **Diffuse Nebula** Constellation: **Taurus** Coordinates: **05hr 39’ 04”** **28° 00’ 00”** Close Star: **SAO-77168** (Elnath) Catalog Objects:SH2-240 Imaging Window: **07:36 – 11:53** Transit: **08:21	85°**	**C-11 HD: HyperStar v4** 
Flame and Horsehead Nebula **(NGC 2024, B 33)** Config: **C11-HD	HS	ZWO6200MC** Type: **Diffuse/Dark Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 40’ 04”** **-02° 28’ 13”** Close Star: SAO-132542 (Saiph) Catalog Objects: NGC-2024, B-33 Imaging Window: **07:36 – 10:23** Transit: **08:22	55°**	**C-11 HD: HyperStar v4** 
Flame Nebula (NGC 2024) Config: |C11-HD|FR|ZWO6200MC| | Type: **Diffuse Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 41’ 30”** **-01° 45’ 21”** Close Star: SAO-132542 (Saiph) Catalog Objects: NGC-2024 Imaging Window: **07:36 – 10:23** Transit: **08:22	55°**	**C-11 HD: Focal Reducer** 

Prospective Imaging Objects – February

Flame Nebula (NGC 2024) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 41’ 45.843”** **-01° 49’ 31.401”** Close Star: SAO-132542 (Saiph) Catalog Objects: NGC-2024 Imaging Window: **07:36 – 10:23** Transit: **08:22 | 55°**	**C-11 HD: Primary Focus** 
Horsehead Nebula (B 33) Config: |C1|LF|ZWO6200MC| Type: **Dark Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 40’ 59”** **-02° 31’ 47”** Close Star: SAO-132542 (Saiph) Catalog Objects: B 33 Imaging Window: **07:36 – 10:19** Transit: **08:21 | 54°**	Primary Focus 
NGC 2022 Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 42’ 07”** **09° 04’ 55”** Close Star: SAO-112740 (Bellatrix) Catalog Objects: NGC-2022 Imaging Window: **07:36 – 11:09** Transit: **08:22 | 66°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – February

NGC 1961 Config: |C11HD|ZWO6200MC| Type: **Spiral Galaxy** Peak: Constellation: **Camelopardalis** Coordinates: **05hr 43’ 27”** **69° 20’ 48”** Close Star: SAO-40750 (Menkalinan) Catalog Objects: NGC-1961 Imaging Window: **07:36 – 11:40** Transit: **08:22 | 54°**	**C-11 HD: Primary Focus**  Galaxy Cluster (NGC-1961 et al.) Constellation: Camelopardalis
M-78 Config: |C11-HD|FR|ZWO6200MC| Type: **Dark Nebula** Peak: Constellation: **Orion** Frame 01 RA: **05hr 47’ 05”**DEC: **00° 20’ 09”** Frame 02 RA: **05hr 47’ 05”**DEC: **-00° 14’ 43”** Close Star: SAO-132346 (Alnilam) Catalog Objects: M-78 Imaging Window: **07:36 – 10:38** Transit: **08:27**	**C-11 HD: Focal Reducer** Composite! 

Prospective Imaging Objects – February

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

Prospective Imaging Objects – February

LDN-1622 (Region 01)
Config: |C11HD|ZWO6200MC|

Type: **Dark Nebula & Nebula**
Peak:
Constellation: **Orion**

Coordinates:
Pane 1: **05hr 50' 40", 01° 46' 30"**
Pane 2, **05hr 50' 40", 00° 14' 57**

Close Star: SAO-132346 (Alnilam)
Catalog Objects: LDN-1622

Imaging Window: **07:36 – 10:54**
Transit: **08:34 | 59°**

C-11 HD: HyperStar v4
Composite!

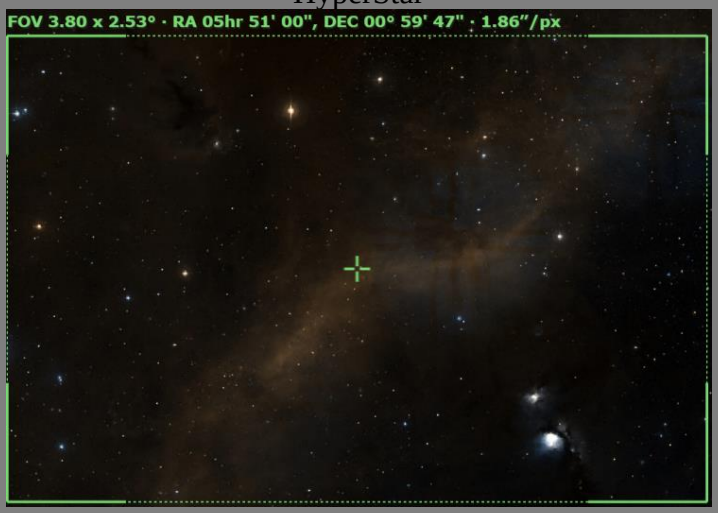
LDN-1622 (Region 01)
Config: |C11HD|ZWO6200MC|

Type: **Dark Nebula & Nebula**
Peak:
Constellation: **Orion**

Coordinates:
05hr 51’ 00”
00° 59’ 47”

Close Star: SAO-132346 (Alnilam)
Catalog Objects: LDN-1622
Imaging Window: **07:36 – 10:54**
Transit: **08:34 | 59°**

HyperStar



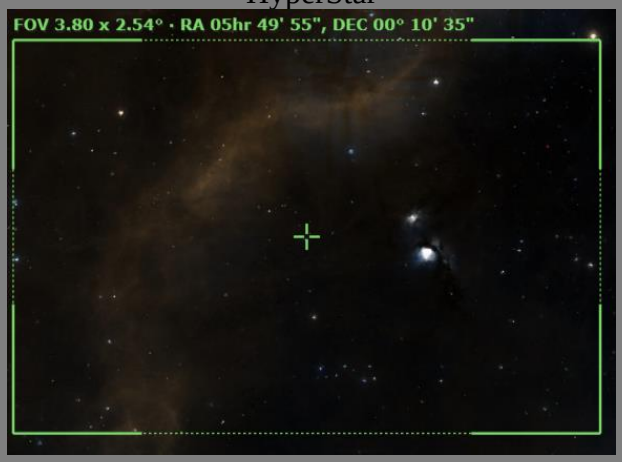
LDN-1622 (Region 02)
Config: |C11HD|ZWO6200MC|

Type: **Dark Nebula & Nebula**
Peak:
Constellation: **Orion**

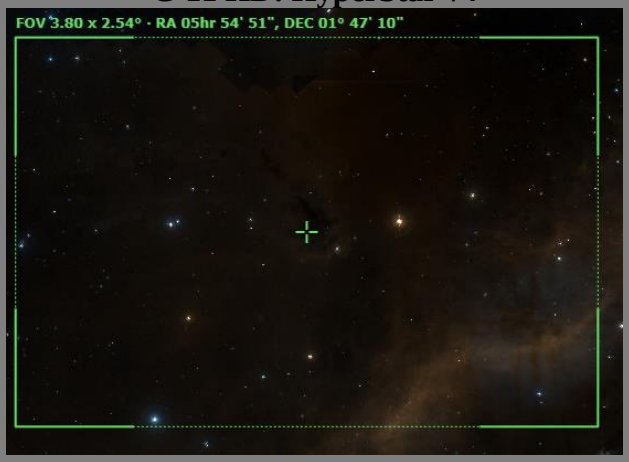
Coordinates:
05hr 49’ 55”
00° 10’ 35”

Close Star: SAO-132346 (Alnilam)
Catalog Objects: LDN-1622
Imaging Window: **07:36 – 10:54**
Transit: **08:34 | 59°**

HyperStar



Prospective Imaging Objects – February

LDN-1622 (Region 03) Config: **C11-HD | HS | ZWO6200MC** Type: **Bright and Dark Nebula** Peak: Coordinates: **05hr 54’ 51”** **01° 47’ 10”** Close Star: SAO-112740(Bellatrix) Catalog Objects: LDN-1622 Imaging Window: **07:36 – 10:54** Transit: **08:34 | 59°**	**C-11 HD: HyperStar v4** 
LDN 1622 Config: |C11HD|ZWO6200MC| Type: **Dark Nebula** Peak: Constellation: **Orion** Camera Rotation - 90° Frame 01 RA: **05hr 56’ 28”**DEC: **01° 58’ 32”** Frame 02 RA: **05hr 54’ 08”**DEC: **01° 58’ 35”** Close Star: SAO-132346 (Alnilam) Catalog Objects: LDN-1622 Imaging Window: **07:36 – 10:54** Transit: **08:34 | 59°**	**C-11 HD: Focal Reducer** Composite! 
LDN-1622 Config: |C11HD|FR|ZWO6200MC| Type: **Bright and Dark Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 54’ 52”** **01° 49’ 51”** Close Star: SAO-112740(Bellatrix) Catalog Objects: LDN-1622 Imaging Window: **07:36 – 10:54** Transit: **08:34 | 59°**	**C-11 HD: Focal Reducer** 

Prospective Imaging Objects – February

LDN 1622 Config: |C11HD|ZWO6200MC| Type: **Dark Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 54’ 55”** **01° 49’ 49”** Close Star: SAO-132346 (Alnilam) Catalog Objects: LDN-1622 Imaging Window: **07:36 – 10:54** Transit: **08:34 | 59°**	**C-11 HD: Primary Focus** 
Angel Nebula (NGC 2170) Config: |C11-HD|FR|ZWO6200MC| Type: **Bright and Dark Nebula** Peak: Constellation: **Monoceros** Coordinates: **06hr 08’ 26”** **-06° 25’ 24”** Close Star: SAO-132542 (Saiph) Catalog Objects: NGC-2170 Imaging Window: **07:36 – 10:19** Transit: **08:48**	**C-11 HD: Focal Reducer** 
Angel Nebula (NGC 2170) Config: |C11-HD |ZWO6200MC| Type: **Bright and Dark Nebula** Peak: Constellation: **Monoceros** Coordinates: **06hr 08’ 26”** **-06° 25’ 24”** Close Star: SAO-132542 (Saiph) Catalog Objects: NGC-2170 Imaging Window: **07:36 – 10:19** Transit: **08:48**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – February

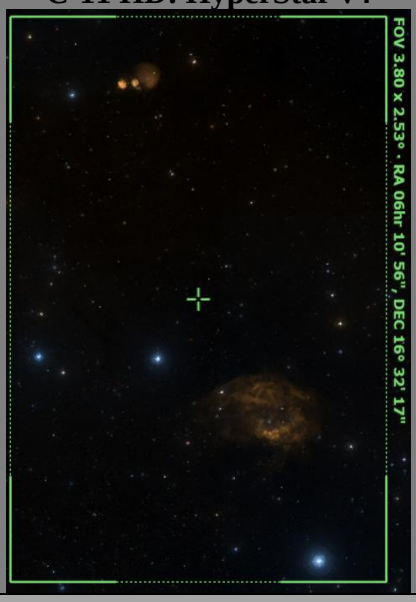
IC-2162 & SH 2-261
Config: |C11HD|ZWO6200MC|

Type: **Diffuse Nebula**
Peak:
Constellation: **Orion**
Coordinates:
06hr 10’ 56”
16° 32’ 17”
Angle: **90° East**

Close Star: SAO-78297 (Calix)
Catalog Objects: IC-2162 Sh 2-261

Imaging Window: **07:36 – 11:55**
Transit: **08:49 | 72°**

C-11 HD: HyperStar v4



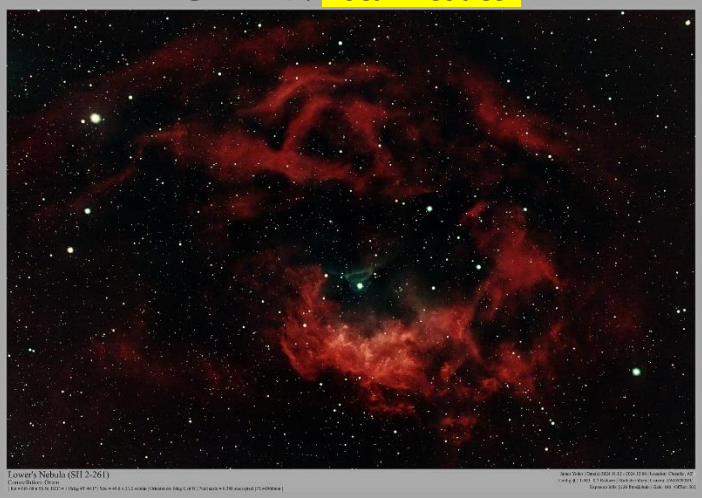
Lower’s Nebula (Sh 2-261)
Config: |C11HD|ZWO6200MC|

Type: **Diffuse Nebula**
Peak:
Constellation: **Orion**
Coordinates:
06hr 09’ 11”
15° 45’ 59”

Close Star: **SAO-78297** (Calix)
Catalog Objects: Sh 2-261

Imaging Window: **07:36 – 11:55**
Transit: **08:49 | 72°**

C-11 HD: Focal Reducer



Lower’s Nebula (Sh 2-261)
Config: |C11HD|ZWO6200MC|

Type: **Diffuse Nebula**
Peak:
Constellation: **Orion**
Coordinates:
06hr 08’ 59”
15° 46’ 39”

Close Star: **SAO-78297** (Calix)
Catalog Objects: Sh 2-261

Imaging Window: **07:36 – 11:55**
Transit: **08:49 | 72°**

C-11 HD: Primary Focus

Prospective Imaging Objects – February

M-35, NGC-2158
Config: |C11-HD|FR|ZWO6200MC|

Type: **Open Cluster Pair**
Constellation: **Gemini**
Coordinates:
06hr 08’ 39”
24° 14’ 48”

Close Star: **SAO-95912** (Alhena)
Catalog Objects: M-35/NGC-2168, NGC-2158

Imaging Window: **07:36 – 12:14**
Transit: **08:49 | 81°**

C-11 HD: Focal Reducer

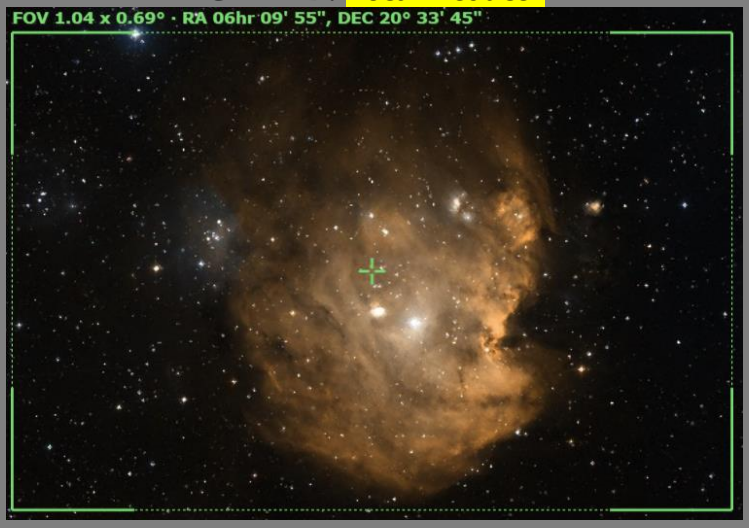
Monkey Head (NGC-2174)
Config: |C11-HD|FR|ZWO6200MC|

Type: **Diffuse Nebula**
Peak:
Constellation: **Orion**
Coordinates:
06hr 09’ 50”
20° 29’ 50”

Close Star: SAO-78297 (Calix)
Catalog Objects: NGC-2174/Sh 2-252

Imaging Window: **07:36 – 12:07**
Transit: **08:50 | 77°**

C-11 HD: Focal Reducer



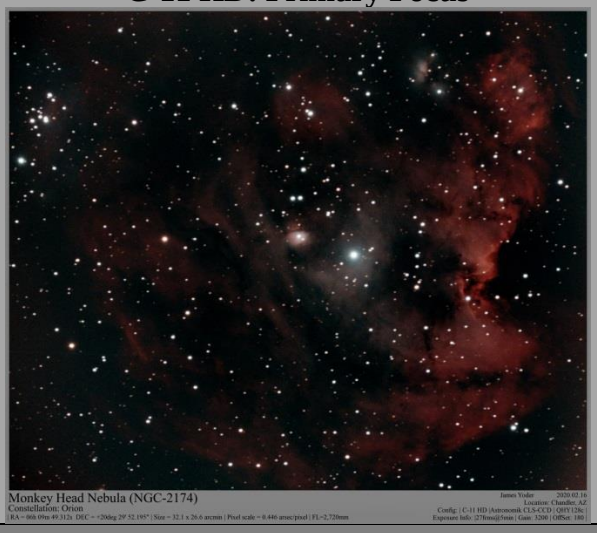
Monkey Head (NGC 2174)
Config: |C11HD|ZWO6200MC|

Type: **Diffuse Nebula**
Peak:
Constellation: **Orion**
Coordinates:
06hr 09’ 50”
20° 29’ 50”

Close Star: SAO-78297 (Calix)
Catalog Objects: NGC-2174/Sh 2-252

Imaging Window: **07:36 – 12:07**
Transit: **08:50 | 77°**

C-11 HD: Primary Focus



Prospective Imaging Objects – February

IC 2162
Config: |C11HD|ZWO6200MC|

Type: **Bright Nebula**
Peak:
Constellation: **Orion**
Coordinates:
06hr 12’ 25”
17° 59’ 26”

Close Star: SAO-78297 (Calix)
Catalog Objects: IC-2162

Imaging Window: **07:36 – 12:05**
Transit: **08:53 | 75°**

C-11 HD: Primary Focus

Jellyfish Nebula (IC 443)
Config: **C11-HD | HS | ZWO6200MC**

Type: **Supernova Remnant**
Peak:
Constellation: **Gemini**
Coordinates:
06hr 19’ 56”
23° 06’ 17”

Close Star: SAO-78297 (Calix)
Catalog Objects: IC-443

Imaging Window: **07:36 – 12:19**
Transit: **08:57 | 79°**

C-11 HD: HyperStar v4

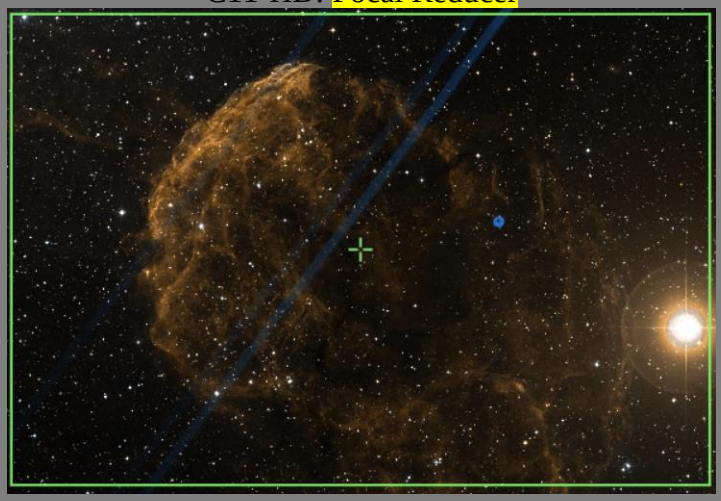
Jellyfish Nebula (IC 443)
Config: |C11-HD|FR|ZWO6200MC|

Type: **Supernova Remnant**
Peak:
Constellation: **Gemini**
Coordinates:
06hr 16’ 59”
22° 37’ 29”

Close Star: SAO-78297 (Calix)
Catalog Objects: IC-443

Imaging Window: **07:36 – 12:19**
Transit: **08:57 | 79°**

C11-HD: Focal Reducer



Prospective Imaging Objects – February

Jellyfish Nebula (IC 443)
Config: |C11|LF|ZWO6200MC|

Type: **Supernova Remnant**
Peak:
Constellation: **Gemini**
Coordinates:
06hr 16’ 51”
22° 36’ 34”

Close Star: SAO-78297 (Calix)
Catalog Objects: IC-443

Imaging Window: **07:36 – 12:19**
Transit: **08:57 | 79°**

Primary Focus

IC-2165
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**
Peak:
Constellation: **Canis Major**
Coordinates:
06hr 21’ 43”
-12° 59’ 12”

Close Star:
Catalog Objects: IC-2165

Imaging Window: ***07:36 – 11:44**
Transit: **09:02 | 44°**

C-11 HD: Primary Focus

SH 2-249
Config: |C11HD|ZWO6200MC|

Type: **Diffuse Nebula**
Peak:
Constellation: **Gemini**
Coordinates:
06hr 19’ 15”
23° 24’ 58”

Close Star: SAO-78297 (Calix)
Catalog Objects: SH 2-249

Imaging Window: **07:36 – 12:25**
Transit: **09:02| 80°**

C-11 HD: Primary Focus

Prospective Imaging Objects – February

Rosette Nebula (NGC 2237) Config: **C11-HD | HS | ZWO6200MC** Type: **Diffuse Nebula** Constellation: **Monoceros** Coordinates: **06hr 31’ 53.37”** **04° 50’ 45.29”** Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2237 ,NGC-2244 Imaging Window: **07:36 – 11:43** Transit: **09:10 | 62°**	**C-11 HD: HyperStar v4** 
Rosette Nebula (NGC 2237) Config: |C11-HD|FR|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Monoceros** Coordinates: **06hr 32’ 01”** **04° 59’ 28”** Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2237 Imaging Window: **07:36 – 11:43** Transit: **09:10 | 62°**	**C-11 HD: Focal Reducer** 
Rosette Nebula (NGC 2237) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Monoceros** Coordinates: **06hr 32’ 02”** **04° 58’ 14”** Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2237 Imaging Window: **07:36 – 11:43** Transit: **09:10 | 62°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – February

IC-2169 Config: **C11 | HS | ZWO6200MC** Type: **Bright Nebula** Peak: Constellation: **Monoceros** Coordinates: **06hr 36’ 00”** **10° 16’ 17”** Close Star: SAO-95912 (Alhena) Catalog Objects: IC-2169 Imaging Window: **07:36 – 12:01** Transit: **09:11 | 80°**	**C-11 HD: HyperStar v4** 
IC 2169 Config: |C11-HD|FR|ZWO6200MC| Type: **Bright Nebula** Peak: Constellation: **Monoceros** Coordinates: **06hr 31’ 21”** **09° 56’ 20”** Close Star: SAO-95912 (Alhena) Catalog Objects: IC-2169 Imaging Window: **07:36 – 12:01** Transit: **09:11 | 80°**	**C-11 HD: Focal Reducer** 
IC 2169 Config: |C11HD|ZWO6200MC| Type: **Bright Nebula** Peak: Constellation: **Monoceros** Coordinates: **06hr 31’ 36”** **09° 58’ 16”** Close Star: SAO-95912 (Alhena) Catalog Objects: IC-2169 Imaging Window: **07:36 – 12:01** Transit: **09:11 | 80°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – February

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

Prospective Imaging Objects – February

Christmas Tree Cluster (NGC 2264) Config: |C1|LF|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Monoceros** Coordinates: **06hr 40' 58.74"** **09° 53' 32.69"** Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2264/Sh 2-273 Imaging Window: **07:36 – 12:10** Transit: **09:21 | 67°**	Primary Focus 
Christmas Tree & Cone Config: |C6FR|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Monoceros** Coordinates: **06hr 40' 51.6"** **09° 40' 25.2"** Angle: **90° East** Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2264/Sh 2-273 Imaging Window: **07:36 – 12:10** Transit: **09:21 | 67°**	**C-6 HD: Focal Reducer** 
Cone Nebula-1 (NGC 2264) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Monoceros** Coordinates: **06hr 41' 07"** **09° 27' 52"** Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2264/Sh 2-273 Imaging Window: **07:36 – 12:10** Transit: **09:21 | 67°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – February

M-41 (NGC 2287)
Config: |C11HD|ZWO6200MC|

Type: **Open Cluster**
Constellation: **Canis Major**
Coordinates:
06hr 46’ 09”
20° 47’ 35”

Close Star: **SAO-151881** (Sirius)
Catalog Objects: M-41/NGC 2287

Imaging Window: ***07:36 – 11:12**
Transit: **09:26 | 36°**

C-11 HD: Primary Focus

M-50 (NGC 2323)
Config: |C11HD|ZWO6200MC|

Type: **Open Cluster**
Constellation: **Monoceros**
Coordinates:
07hr 02’ 48”
-08° 22’ 33”

Close Star: **SAO-151881** (Sirius)
Catalog Objects: M-50/NGC 2323

Imaging Window: ***07:36 – 12:45**
Transit: **09:42 | 48°**

C-11 HD: Primary Focus

Seagull Nebula (IC-2177)
Config: |C11HD|ZWO6200MC|

Type: **Diffuse Nebula**
Peak:
Constellation: **Monoceros**
Coordinates:
07hr 06’ 20”
-11° 06’ 56”

Close Star: SAO-151881 (Sirius)
Catalog Objects: IC-2177

Imaging Window: ***07:36 – 12:37**
Transit: **09:44 | 46°**

C-11 HD: HyperStar v4 - 90° Rotation

Prospective Imaging Objects – February

Seagull Nebula (IC 2177)
Config: |C11HD|ZWO6200MC|

Type: **Diffuse Nebula**
Peak:
Constellation: **Monoceros**
Coordinates:
07hr 04’ 47”
-10° 27’ 49”

Close Star: SAO-151881 (Sirius)
Catalog Objects: IC-2177

Imaging Window: ***07:36 – 12:37**
Transit: **09:44 | 46°**

C-11 HD: Primary Focus

Hourglass Nebula (NGC-2346)
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**
Peak:
Constellation: **Monoceros**
Coordinates:
07hr 09’ 23”
00° 48’ 22”

Close Star: SAO-115756 (Procyon)
Catalog Objects: NGC-2346

Imaging Window: ***07:36 – 12:29**
Transit: **09:49 | 56°**

C-11 HD: Primary Focus x2

Integral Sign Galaxy (UGC 3697)
Config: |C11HD|FR|ZWO6200MC|

Type: **Galaxy Group**
Constellation: **Camelopardalis**
Coordinates:
07hr 11’ 40”
71° 56’ 04”

Close Star: **SAO-40186** (Capella)
Catalog Objects: UGC-3697, UGC-3714, UGC-3701

Imaging Window: **07:36 – 12:52**
Transit: **09:51 | 52°**

C-11 HD: Focal Reducer

Prospective Imaging Objects – February

Integral Sign Galaxy (UGC 3697) Config: |C11HD|ZWO6200MC| Type: **Galaxy** Constellation: **Camelopardalis** Coordinates: **07hr 11' 50"** **71° 48' 14"** Close Star: **SAO-40186** (Capella) Catalog Objects: UGC-3697, UGC-3714, UGC-3701 Imaging Window: **07:36 – 12:52** Transit: **09:51 | 52°**	**C-11 HD: Primary Focus** 
Thor's Helmet (NGC-2359) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Canis Major** Coordinates: **07h 18' 26.223"** **-13° 15' 29.563"** Close Star: SAO-151881 (Sirius) Catalog Objects: NGC-2359/ Sh2-298/ LBN1041 Imaging Window: ***07:36 – 12:37** Transit: **09:58 | 43°**	**C-11 HD: Primary Focus** 
Candy Wrapper (NGC-2371) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Gemini** Coordinates: **07° 25' 34"** **29° 29' 18"** Close Star: SAO-151881 (Sirius) Catalog Objects: NGC-2371 Imaging Window: **07:36 – 01:40** Transit: **10:05 | 86°**	**C-11 HD: Primary Focus x2** 

Prospective Imaging Objects – February

Medusa Nebula (Abell 21)

Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Gemini**
Coordinates:
07h 29’ 00”
13° 15’ 00”

Close Star: **SAO-115756** (Procyon)
Catalog Objects: Abell 21

Imaging Window: **07:36 – 01:09**
Transit: **10:09 | 70°**

C-11 HD: Primary Focus

Eskimo Nebula (NGC-2392)

Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Gemini**
Coordinates:
07h 29’ 11”
20° 54’ 45”

Close Star: **SAO-79666** (Pollux)
Catalog Objects: NGC-2392

Imaging Window: **07:36 – 01:28**
Transit: **10:09 | 70°**

C-11 HD: Primary Focus

M-47 (NGC-2422)

Config: |C11HD|ZWO6200MC|

Type: **Open Cluster**

Constellation: **Puppis**
Coordinates:
07h 36’ 36”
-14° 32’ 19”

Close Star: **SAO-79666** (Pollux)
Catalog Objects: M-47/NGC-2422

Imaging Window: ***07:36 – 12:53**
Transit: **10:16 | 42°**

C-11 HD: Primary Focus

Prospective Imaging Objects – February

NGC-2403

Config: |C11HD|ZWO6200MC|

Type: **Barred Spiral Galaxy**

Constellation: **Camelopardalis**
Coordinates:
07h 36’ 51”
65° 36’ 06”

Close Star: **SAO-79666** (Pollux)
Catalog Objects: NGC-2403

Imaging Window: **07:36 – 01:52**
Transit: **10:17 | 58°**

C-11 HD: Primary Focus

Intergalactic Wanderer (NGC-2419)

Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

Constellation: **Lynx**
Coordinates:
07h 38’ 09”
38° 52’ 57”

Close Star: **SAO-79666** (Pollux)
Catalog Objects: NGC-2419

Imaging Window: **07:36 – 02:05**
Transit: **10:18 | 84°**

C-11 HD: Primary Focus

M-46 (NGC-2437)

Config: |C11HD|ZWO6200MC|

Type: **Open Cluster with PN**

Constellation: **Puppis**
Coordinates:
07h 41’ 45”
-14° 46’ 43”

Close Star: **SAO-151881** (Sirius)
Catalog Objects: M-46/NGC-2437, NGC-2438

Imaging Window: ***07:51 – 12:53**
Transit: **10:21 | 42°**

C-11 HD: Primary Focus

Prospective Imaging Objects – February

Bow-Tie Nebula (NGC-2440)
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Puppis**
Coordinates:
07° 41’ 55”
-18° 12’ 29”

Close Star: **SAO-151881** (Sirius)
Catalog Objects: NGC-2440

Imaging Window: ***08:15 – 12:33**
Transit: **10:22 | 38°**

C-11 HD: Primary Focus x2

Butterfly Cluster (M-93, NGC-2447)
Config: |C11HD|ZWO6200MC|

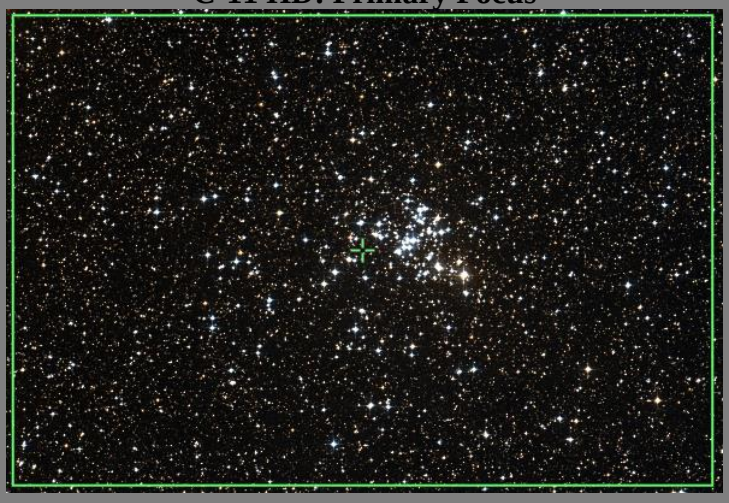
Type: **Open Cluster**

Constellation: **Puppis**
Coordinates:
07h 44’ 46”
-23° 51’ 52”

Close Star: **SAO-151881** (Sirius)
Catalog Objects: M-93/NGC-2447

Imaging Window: ***09:04 – 11:48**
Transit: **10:24 | 33°**

C-11 HD: Primary Focus



M-48 (NGC-2548)
Config: |C11HD|ZWO6200MC|

Type: **Open Cluster**

Constellation: **Hydra**
Coordinates:
08h 13’ 46”
-05° 46’ 05”

Close Star: **SAO-115756** (Procyon)
Catalog Objects: M-48/NGC-2548

Imaging Window: **09:22 – 12:30**
Transit: **10:53 | 51°**

C-11 HD: Primary Focus

Prospective Imaging Objects – February

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

Prospective Imaging Objects – February

Helix Galaxy (NGC-2685)
Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

Constellation: **Ursa Major**
Coordinates:
08h 55’ 14”
58° 42’ 24”

Close Star: **SAO-27876** (Merak)
Catalog Objects: NGC-2685

Imaging Window: **07:52 – 03:25**
Transit: **11:35 | 65°**

C-11 HD: Primary Focus

NGC-2903
Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

Constellation: **Leo**
Coordinates:
09h 32’ 08.949”
21° 30’ 37.772”

Close Star: **SAO-98967** (Regulus)
Catalog Objects: NGC-2903

Imaging Window: **08:58 – 03:32**
Transit: **12:12 | 78°**

C-11 HD: Primary Focus

Bode’s Cigar (M81 & M82)
Config: **C11-HD | HS | ZWO6200MC**

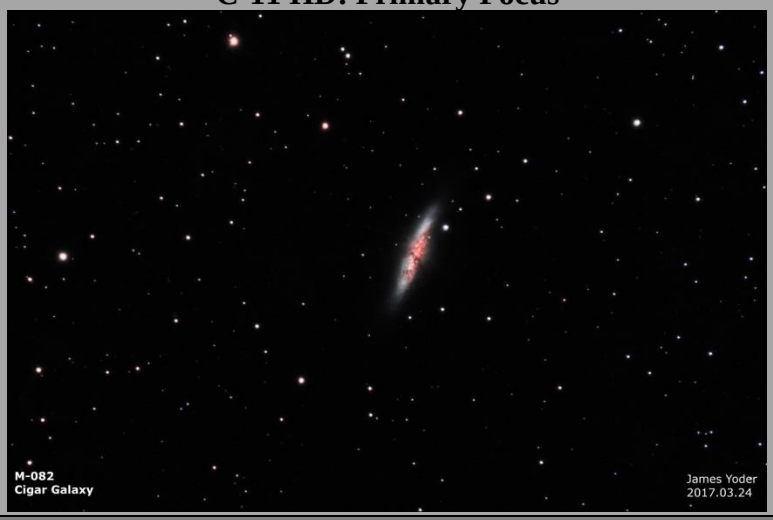
Type: **Galaxy Pair**
Peak:
Constellation: **Ursa Major**
Coordinates:
09hr 54’ 02”
68° 53’ 32”

Close Star: **SAO-15384**
Catalog Objects: M-81 & M-82

Imaging Window: **09:25 – 03:52**
Transit: **12:35 | 54°**

C-11 HD: HyperStar v4

Prospective Imaging Objects – February

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

Prospective Imaging Objects – February

Spindel Galaxy (NGC-3115)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

Constellation: **Sextans**
Coordinates:
10h 05’ 21”
-07° 47’ 09”

Close Star: **SAO-98967** (Regulus)
Catalog Objects: NGC-3115

Imaging Window: ***09:44 – 03:50**
Transit: **12:44 | 49°**

C-11 HD: Primary Focus

Powder keg Galaxy (UGC-5470)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

Constellation: **Leo**
Coordinates:
10h 08’ 27”
12° 19’ 49”

Close Star: **SAO-98967** (Regulus)
Catalog Objects: UGC-5470

Imaging Window: **09:57 – 03:45**
Transit: **12:48 | 69°**

C-11 HD: Primary Focus

NGC-3166 & NGC-3169

Config: |C11HD|ZWO6200MC|

Type: **Galaxy pair**

Constellation: **Sextans**
Coordinates:
10h 14’ 01”
03° 25’ 51”

Close Star: **SAO-98967** (Regulus)
Catalog Objects: NGC-3166, NGC-3169

Imaging Window: **10:32 – 03:20**
Transit: **12:53 | 60°**

C-11 HD: Primary Focus

Prospective Imaging Objects – February

Hickson 44 (NGC-3190, 3189,)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy Group**

Constellation: **Leo**
Coordinates:
10h 17’ 57”
21° 49’ 11”

Close Star: **SAO-98967** (Regulus)
Catalog Objects: NGC-3189, 3190, 3185, 3193, 3187, PGC-2806871

Imaging Window: **09:43 – 04:18**
Transit: **12:57 | 79°**

C-11 HD: Primary Focus

NGC-3184

Config: |C11HD|ZWO6200MC|

Type: **Face-on Spiral Galaxy**

Constellation: **Ursa Major**
Coordinates:
10h 18’ 17”
41° 25’ 24”

Close Star: **SAO-98967** (Regulus)
Catalog Objects: NGC-3184

Imaging Window: **09:14 – 04:47**
Transit: **12:58 | 82°**

C-11 HD: Primary Focus

NGC-3227 & NGC-3226

Config: |C11HD|ZWO6200MC|

Type: **Interacting Galaxies**

Constellation: **Leo**
Coordinates:
10h 23’ 29”
19° 53’ 07”

Close Star: **SAO-60178** (Castor)
Catalog Objects: NGC-3227, NGC-3226

Imaging Window: **09:52 – 04:20**
Transit: **01:03 | 76°**

C-11 HD: Primary Focus

Prospective Imaging Objects – February

Ghost of Jupiter (NGC-3242)

Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Hydra**
Coordinates:
10h 24’ 46”
-18° 38’ 31”

Close Star: **SAO-98967** (Regulus)
Catalog Objects: NGC-3242

Imaging Window: ***11:04 – 03:09**
Transit: **01:04 | 38°**

C-11 HD: Primary Focus

Galaxy Group 2574

Config: **C11-HD | HS | ZWO6200MC**

Type: **Galaxy Group**

Constellation: **Leo**
Coordinates:
10h 28’ 40”
68° 26’ 14”

Close Star: **SAO-27876** (Merak)
Catalog Objects: IC-2574

Imaging Window: **09:50 – 04:32**
Transit: **01:08 | 55°**

C-11 HD: HyperStar v4

Coddington’s Nebula (IC-2574)

Config: |C11HD|ZWO6200MC|

Type: **Barred Spiral Galaxy**

Constellation: **Leo**
Coordinates:
10h 28’ 40”
68° 26’ 14”

Close Star: **SAO-27876** (Merak)
Catalog Objects: IC-2574

Imaging Window: **09:50 – 04:32**
Transit: **01:08 | 55°**

C-11 HD: Primary Focus

Prospective Imaging Objects – February

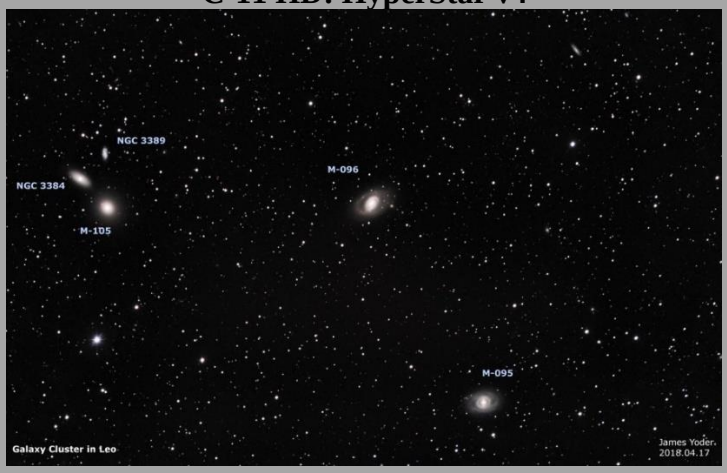
Leo Galaxy Group (M-96, M95 et el.)
Config: **C11-HD | HS | ZWO6200MC**

Type: **Galaxy Grouping**
Constellation: **Leo**
Coordinates:
10h 47’ 23”
12° 23’ 59”

Close Star: **SAO-98967** (Regulus)
Catalog Objects: M-96,M95, NGC3389, NGC3384, M105

Imaging Window: **10:36 – 04:22**
Transit: **01:26 | 68°**

C-11 HD: HyperStar v4



M-95, M-96 (NGC-3351, 3368)
Config: |C11-HD|FR|ZWO6200MC|

Type: **Galaxy Pair**

Constellation: **Leo**
Coordinates:
10h 45’ 20”
11° 44’ 30”

Close Star: **SAO-98967** (Regulus)
Catalog Objects: M-95, M-96

Imaging Window: **10:34 – 04:19**
Transit: **01:23 | 68°**

C-11 HD: Focal Reducer

Leo Trio 2 (NGC-3379, 3384, 3389)
Config: |C11HD|ZWO6200MC|

Type: **Trio of Galaxies**

Constellation: **Leo**
Coordinates:
10h 48’ 07.227”
12° 33’ 52.943”

Close Star: **SAO-98967** (Regulus)
Catalog Objects: M-105/NGC3379, NGC-3384, NGC-3389

Imaging Window: **10:35 – 04:26**
Transit: **01:27 | 69°**

C-11 HD: Primary Focus

Prospective Imaging Objects – February

Ambartsumian's Knot et el.
(NGC-3561, 3558, 3553, 3550, etc.)
Config: |C11HD|ZWO6200MC|

Type: **Galaxy Cluster**

Constellation: **Ursa Major**
Coordinates:
11h 10' 43"
28° 41' 41"

Close Star: **SAO-81727** (Zosma)
Catalog Objects: NGC-3561

Imaging Window: **10:23 – 05:24**
Transit: **01:50 | 85°**

C-11 HD: Primary Focus

M-108 & M-97
Config: |C11HD|ZWO6200MC|

Type: **Irregular Galaxy & Planetary Nebula**

Constellation: **Ursa Major**
Coordinates:
11h 12' 49"
55° 20' 57"

Close Star: **SAO-27876** (Merak)
Catalog Objects: M-108/NGC-3555

Imaging Window: **10:05 – 05:43**
Transit: **01:51 | 68°**

C-11 HD: HyperStar v4

M-108 (NGC-3556)
Config: |C11HD|ZWO6200MC|

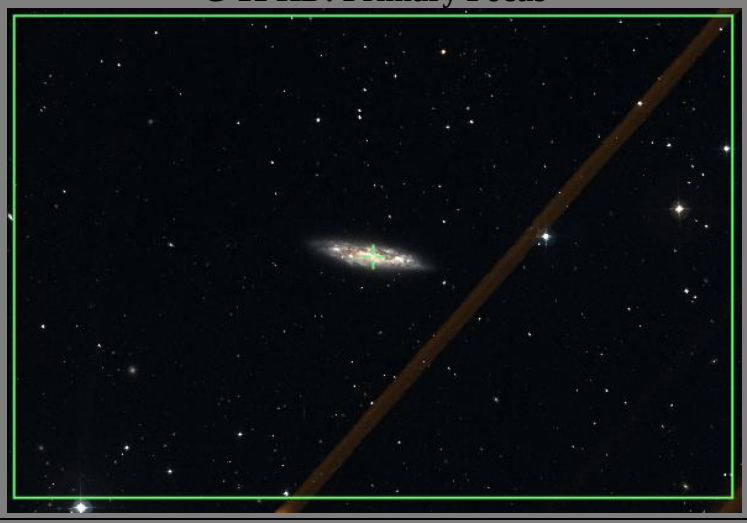
Type: **Irregular Galaxy**

Constellation: **Ursa Major**
Coordinates:
11h 11' 29"
55° 40' 22"

Close Star: **SAO-27876** (Merak)
Catalog Objects: M-108/NGC-3555

Imaging Window: **10:05 – 05:43**
Transit: **01:51 | 68°**

C-11 HD: Primary Focus



Prospective Imaging Objects – February

Owl Nebula (NGC-3587) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Ursa Major** Coordinates: **11h 14' 48"** **55° 01' 10"** Close Star: **SAO-27876** Catalog Objects: M-97/NGC-3587 Imaging Window: **10:08 – 05:47** Transit: **01:54 | 68°**	**C-11 HD: Primary Focus** 
Owl Nebula (NGC-3587) Config: |C11HD|Barlow x2|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Ursa Major** Coordinates: **11h 14' 48"** **55° 01' 10"** Close Star: **SAO-27876** Catalog Objects: M-97/NGC-3587 Imaging Window: **10:08 – 05:47** Transit: **01:54 | 68°**	**C-11 HD: Primary Focus *x2** 
Lio Trio of Galaxies Config: |C11HD|ZWO6200MC| Type: **Spiral Galaxy** Constellation: **Leo** Coordinates: **See Targets Below** *NOTE: M-65/ M-66 & NGC-3628 combined to create mosaic* Close Star: **SAO-98967** (Regulus) Catalog Objects: NGC-3628, M-65 Imaging Window: **11:05 – 05:01** Transit: **01:59 | 70°**	**C-11 HD: Primary Focus Mosaic** 

Prospective Imaging Objects – February

Lio Trio of Galaxies Config: **C11-HD | HS | ZWO6200MC** Type: **Galaxies** Constellation: **Leo** Coordinates: Frame 01 RA: **11hr 19' 57"**DEC: **13° 32' 15"** Frame 02 RA: **11hr 19' 57"**DEC: **13° 04' 57"** Close Star: **SAO-15384** Catalog Objects: NGC-3628, 3623, M-65 Imaging Window: **11:05 – 05:01** Transit: **01:59 | 70°**	**C-11 HD: Focal Reducer** Composite! 
NGC-3628 Config: |C11HD|ZWO6200MC| Type: **Spiral Galaxy** Constellation: **Leo** Coordinates: **11h 19' 44"** **13° 28' 28"** *NOTE: M-65/ M-66 & NGC-3628 can be combined to create mosaic* Close Star: **SAO-98967** (Regulus) Catalog Objects: NGC-3628, Imaging Window: **11:05 – 05:01** Transit: **01:59 | 70°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – February

M-65, M-66
Config: |C11HD|ZWO6200MC|
Type: **Spiral Galaxy**

Constellation: **Leo**
Coordinates:
11h 19’ 44”
13° 04’ 06”
NOTE: M-65/ M-66 & NGC-3628 can be combined to create mosaic

Close Star: **SAO-98967** (Regulus)
Catalog Objects: M-65/NGC-3623, M-66/NGC-3627

Imaging Window: **11:05 – 04:58**
Transit: **01:58 | 70°**

C-11 HD: Primary Focus

Arp-214 (NGC-3718, NGC-3729)
Config: |C11HD|ZWO6200MC|
Type: **Galaxy Pair**

Constellation: **Ursa Major**
Coordinates:
11h 33’ 09”
53° 05’ 02”

Close Star: **SAO-28179** (Phecda)
Catalog Objects: NGC-3718

Imaging Window: **10:25 – 05:48**
Transit: **02:12 | 70°**

C-11 HD: Primary Focus

Copeland’s Septet (NGC-3746, 3748, 3750, 3751, 3753, 3754)
Config: |C11HD|ZWO6200MC|
Type: **Galaxy Cluster**

Constellation: **Leo**
Coordinates:
11h 33’ 09”
53° 05’ 02”
Close Star: **SAO-99809** (Denebola)
Catalog Objects: NGC-3746, 3748, 3750, 3751, 3753, 3754/HCG-57

Imaging Window: **11:02 – 05:38**
Transit: **02:17 | 79°**

C-11 HD: Primary Focus

Prospective Imaging Objects – February

Abell 1367 (NGC-3861, et el.)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy Cluster**

Constellation: **Leo**
Coordinates:
11h 44’ 40”
19° 56’ 32”

Close Star: **SAO-99809** (Denebola)
Catalog Objects: NGC-3861, 3842, dozens of others.

Imaging Window: **11:14 – 05:41**
Transit: **02:24 | 77°**

C-11 HD: Primary Focus

Wild’s Triplet (Arp-248)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

Constellation: **Ursa Major**
Coordinates:
11h 46’ 41”
-03° 51’ 46”

Close Star: **SAO-28179** (Phecda)
Catalog Objects: Arp-248, PGC-36742, 36733, 36723

Imaging Window: ***11:36 – 05:18**
Transit: **02:26 | 53°**

C-11 HD: Primary Focus

M-109 (NGC-3992)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

Constellation: **Ursa Major**
Coordinates:
11h 57’ 34”
53° 20’ 59”

Close Star: **SAO-28179** (Phecda)
Catalog Objects: NGC-3992

Imaging Window: **10:50 – 05:48**
Transit: **02:37 | 70°**

C-11 HD: Primary Focus

Prospective Imaging Objects – February

NGC-4027 (PGC-37773)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

Constellation: **Corvus**
Coordinates:
11h 59’ 31”
-19° 15’ 57”

Close Star: **SAO-157923** (Spica)
Catalog Objects: NGC-4027

Imaging Window: ***12:37 – 04:38**
Transit: **02:38 | 37°**

C-11 HD: Primary Focus

Antennae Galaxies (Arp-244)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy Pair**

Constellation: **Corvus**
Coordinates:
12h 01’ 54”
-18° 53’ 08”

Close Star: **SAO-157923** (Spica)
Catalog Objects: Arp-244/
NGC-4038, NGC-4039

Imaging Window: ***12:37 – 04:46**
Transit: **02:41 | 38°**

C-11 HD: Primary Focus

M-98 (NGC-4192)

Config: |C11HD|ZWO6200MC|

Type: **Barred Spiral Galaxy**

Constellation: **Coma Berenices**
Coordinates:
12h 13’ 48”
14° 53’ 58”

Close Star: **SAO-99809** (Denebola)
Catalog Objects: M-98/NGC-4192

Imaging Window: **11:55 – 05:48**
Transit: **02:53 | 72°**

C-11 HD: Primary Focus

Prospective Imaging Objects – February

NGC-4236 (UGC 7306)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

Constellation: **Draco**
Coordinates:
12h 16’ 42”
69° 28’ 00”

Close Star: **SAO-28553** (Alioth)
Catalog Objects: NGC-4236/UGC-7306

Imaging Window: **11:44 – 05:48**
Transit: **02:56 | 54°**

C-11 HD: Primary Focus

Silver Needle (NGC-4244)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

Constellation: **Canes Venatici**
Coordinates:
12h 17’ 30”
37° 48’ 28”

Close Star: **SAO-99809** (Denebola)
Catalog Objects: NGC-4244/UGC-7322
Imaging Window: **11:17 – 05:48**
Transit: **02:56 | 86°**

C-11 HD: Primary Focus

St. Katherines Wheel (M99/NGC4254)

Config: |C11HD|ZWO6200MC|

Type: **Spiral Galaxy**

Constellation: **Coma Berenices**
Coordinates:
12h 18’ 49”
14° 25’ 03”

Close Star: **SAO-99809** (Denebola)
Catalog Objects: M-99/NGC-4254
Imaging Window: **12:01 – 05:48**
Transit: **02:58 | 71°**

C-11 HD: Primary Focus

Prospective Imaging Objects – February

Galaxy Group 106

Config: **C11-HD | HS | ZWO6200MC**

Type: **Galaxy Group**

Constellation: **Canes Venatici**
Coordinates:
12h 17’ 12”
47° 13’ 33”

Close Star: **SAO-28179** (Phecda)
Catalog Objects: M-106, NGC 4248, 4217, 4232, 4331
Imaging Window: **11:12 – 05:48**
Transit: **02:58 | 76°**

C-11 HD: HyperStar v4

M-106 (NGC-4258)

Config: |C11-HD|FR|ZWO6200MC|

Type: **Galaxy Group**

Constellation: **Canes Venatici**
Coordinates:
12h 17’ 12”
47° 13’ 33”

Close Star: **SAO-28179** (Phecda)
Catalog Objects: M-106, NGC 4248, 4217, 4232, 4331
Imaging Window: **11:12 – 05:48**
Transit: **02:58 | 76°**

C-11 HD: Focal Reducer

M-61 (NGC4303)

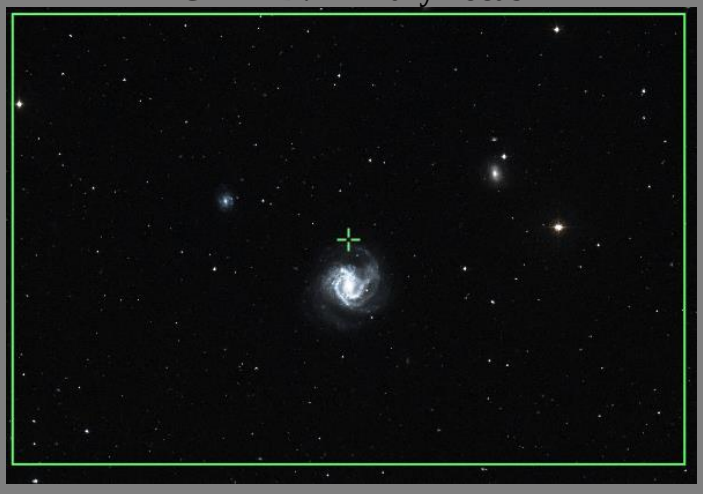
Config: |C11HD|ZWO6200MC|

Type: **Face-On Spiral Galaxy**

Constellation: **Virgo**
Coordinates:
12h 21’ 55”
04° 31’ 28”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-61/NGC-4303, NGC-4292, NGC-4301
Imaging Window: **12:36 – 05:33**
Transit: **03:01 | 61°**

C-11 HD: Primary Focus



Prospective Imaging Objects – February

Winnecke 4(M-40) Config: |C11HD|ZWO6200MC| Type: **Galaxy Cluster** Constellation: **Ursa Major** Coordinates: **12h 21’ 22”** **58° 03’ 05”** Close Star: **SAO-28179** (Phecda) Catalog Objects: M-40, NGC-4290, NGC-4284 Imaging Window: **11:18 – 05:48** Transit: **03:01 | 65°**	**C-11 HD: Primary Focus** 
M-100(NGC-4303) Config: |C11HD|ZWO6200MC| Type: **Face-On Spiral Galaxy** Constellation: **Coma Berenices** Coordinates: **12h 22’ 28”** **15° 42’ 40”** Close Star: **SAO-100944** (Arcturus) Catalog Objects: M-100/NGC-4321, NGC-4312, 4328, 4322, UGC-7425, IC-783A, Imaging Window: **12:02 – 05:48** Transit: **03:02 | 72°**	**C-11 HD: Primary Focus** 
Lawn Sprinkler Nebula (NGC-4361) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Corvus** Coordinates: **12h 24’ 31”** **-18° 47’ 03”** Close Star: **SAO-157176** (Gienah Corvi) Catalog Objects: NGC-4361 Imaging Window: ***12:57 – 05:10** Transit: **03:03 | 38°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – February

Markarian Chain(M-84 Et. El.)

Config: **C11-HD | HS | ZWO6200MC**
Type: **Galaxy cluster**

Constellation: **Virgo**
Coordinates:
12h 26’ 29”
12° 52’ 22”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-84/NGC-4374, NGC-4388, 4425, 4402, M-86/NGC4406, 4438, 4435, and more
Imaging Window: **12:12 – 05:48**
Transit: **03:04 | 69°**

C-11 HD: HyperStar v4

Markarian Chain 2

Config: **C11-HD | HS | ZWO6200MC**

Type: **Galaxy cluster**

Constellation: **Virgo**
Coordinates:
12h 35’ 40”
12° 33’ 22”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-84/NGC-4374, NGC-4388, 4425, 4402, M-86/NGC4406, 4438, 4435, and more
Imaging Window: **12:12 – 05:48**
Transit: **03:04 | 69°**

C-11 HD: HyperStar v4

Markarian’s Chain (M-84)

Config: |C11-HD|FR|ZWO6200MC|

Type: **Galaxy cluster**

Constellation: **Virgo**
Coordinates:
12h 26’ 29”
12° 52’ 22”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-84/NGC-4374, NGC-4388, 4425, 4402, M-86/NGC4406, 4438, 4435, and more
Imaging Window: **12:12 – 05:48**
Transit: **03:04 | 69°**

C-11 HD: Focal Reducer

Prospective Imaging Objects – February

Emission Line Galaxy
(NGC-4449/UGC-7592)
Config: |C11HD|ZWO6200MC|

Type: **Irregular Galaxy**

Constellation: **Canes Venatici**
Coordinates:
12h 28’ 11”
44° 05’ 42”

Close Star: **SAO-28553** (Alioth)
Catalog Objects: NGC-4449/UGC-7592
Imaging Window: **11:22 – 05:48**
Transit: **03:07 | 79°**

C-11 HD: Primary Focus

M-49(NGC-4472)
Config: |C11HD|ZWO6200MC|

Type: **Elliptical Galaxy**

Constellation: **Virgo**
Coordinates:
12h 29’ 58”
07° 59’ 51”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-49/NGC-4472
Imaging Window: **12:31 – 05:48**
Transit: **03:09 | 65°**

C-11 HD: Primary Focus

Virgo A(M-87)
Config: |C11HD|ZWO6200MC|

Type: **Elliptical Galaxy**

Constellation: **Virgo**
Coordinates:
12h 30’ 49”
12° 23’ 26”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-87/NGC-4486
Imaging Window: **12:19 – 05:48**
Transit: **03:10 | 69°**

C-11 HD: Primary Focus

Prospective Imaging Objects – February

Cocoon Galaxy(NGC-4490) Config: |C11HD|ZWO6200MC| Type: **Interacting Galaxy Pair** Constellation: **Canes Venatici** Coordinates: **12h 30’ 36”** **41° 38’ 34”** Close Star: **SAO-28179** (Phecda) Catalog Objects: NGC-4490, NGC-4485 Imaging Window: **11:27 – 05:48** Transit: **03:09 | 82°**	**C-11 HD: Primary Focus**  Cocoon Galaxy (NGC-4490 & NGC-4485) Constellation: Canes Venatici
Lemon Slice Nebula (IC-3568) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Camelopardalis** Coordinates: **12h 33’ 14”** **82° 33’ 22”** Close Star: **SAO-8102** (Kochab) Catalog Objects: IC-3568/UGC-7731 Imaging Window: ***10:16 – 05:48** Transit: **03:12 | 41°**	**C-11 HD: Primary Focus**  Planetary Nebula IC-3568 Constellation: Camelopardalis
M-91(NGC-4548) Config: |C11HD|ZWO6200MC| Type: **Barred Spiral Galaxy** Constellation: **Coma Berenices** Coordinates: **12h 36’ 04”** **14° 23’ 37”** Close Star: **SAO-100944** (Arcturus) Catalog Objects: M-91/NGC4548, NGC-4571 Imaging Window: **12:17 – 05:48** Transit: **03:14 | 71°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – February

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

Prospective Imaging Objects – February

Needle Galaxy (NGC-4565)

Config: |C11HD|ZWO6200MC|

Type: **Edge-on Galaxy**

Constellation: **Coma Berenices**
Coordinates:
12h 36’ 02”
25° 56’ 51”

Close Star: **SAO-44752** (Alkaid)
Catalog Objects: NGC-4565, NGC-4562
Imaging Window: **11:53 – 05:48**
Transit: **03:15 | 83°**

C-11 HD: Primary Focus

M-90 (NGC-4569)

Config: |C11HD|ZWO6200MC|

Type: **Spiral Galaxy**

Constellation: **Virgo**
Coordinates:
12h 37’ 11”
13° 09’ 19”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-90/NGC-4569 IC-3583, NGC-4584
Imaging Window: **12:23 – 05:48**
Transit: **03:16 | 70°**

C-11 HD: Primary Focus

Galaxy Group 58

Config: | C-11HD | HyperStar |

Type: **Galaxy Group**

Constellation: **Virgo**
Coordinates:
12h 37’ 35”
12° 18’ 56”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-58/NGC-4579
Imaging Window: **12:27 – 05:48**
Transit: **03:17 | 68°**

C-11 HD: HyperStar v4

Prospective Imaging Objects – February

M-58 (NGC-4579)

Config: |C11HD|ZWO6200MC|

Type: **Barred Spiral Galaxy**

Constellation: **Virgo**
Coordinates:
12h 37’ 44”
11° 49’ 06”

close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-58/NGC-4579
Imaging Window: **12:27 – 05:48**
Transit: **03:17 | 68°**

C-11 HD: Primary Focus

M-68 (NGC-4590)

Config: |C11HD||ZWO6200MC|

Type: **Globular Cluster**
Constellation: **Hydra**
Coordinates:
12h 39’ 28”
-26° 44’ 32”

Close Star: **SAO-180915** (Kraz)
Catalog Objects: M-68/NGC-4590

Imaging Window: ***01:37 – 05:10**
Transit: **03:18 | 30°**

C-11 HD: Primary Focus

Sombrero Galaxy (M-104)

Config: |C11HD|ZWO6200MC|

Type: **Edge-on Spiral Galaxy**

Constellation: **Virgo**
Coordinates:
12h 39’ 44”
-11° 37’ 52”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-104/NGC-4594
Imaging Window: ***12:37 – 05:48**
Transit: **03:32 | 45°**

C-11 HD: Primary Focus

Prospective Imaging Objects – February

Whale and Hockey Stick
(NGC-4631, NGC-4656)
Config: |C11-HD|FR|ZWO6200MC|

Type: **Galaxies**

Constellation: **Canes Venatici**
Coordinates:
12h 42’ 50”
32° 20’ 54”

Close Star: **SAO-99809** (Denebola)
Catalog Objects: NGC-4631, NGC-4656
Imaging Window: **11:48– 05:48**
Transit: **03:21 | 89°**

C-11 HD: Focal Reducer

M-59, M-60 group
Config: |C11-HD|FR|ZWO6200MC|

Type: **Galaxy Group**

Constellation: **Virgo**
Coordinates:
12h 42’ 42”
11° 40’ 33”

Close Star: **SAO-99809** (Denebola)
Catalog Objects: M-59/NGC-4621, M-60/NGC-4649, NGC-4656, 4647, 4638, 4607, 4606
Imaging Window: **12:32 – 05:48**
Transit: **03:21 | 68°**

C-11 HD: Focal Reducer

TheMice (NGC-4676 A &B)
Config: |C11HD|ZWO6200MC|

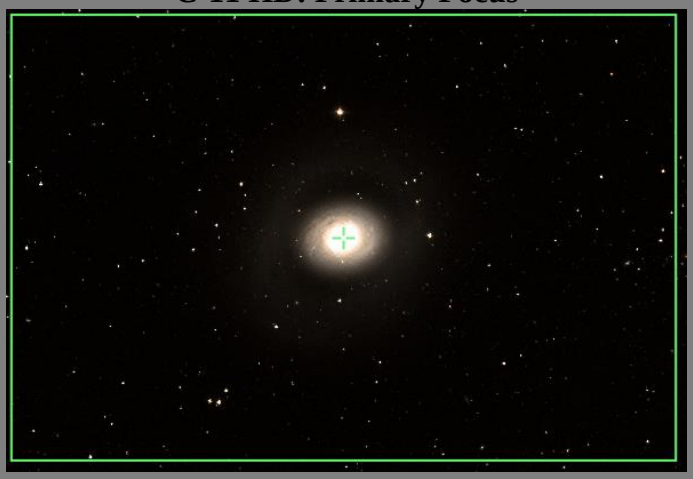
Type: **Interacting Galaxies**

Constellation: **Coma Berenices**
Coordinates:
12h 46’ 07”
30° 43’ 43”

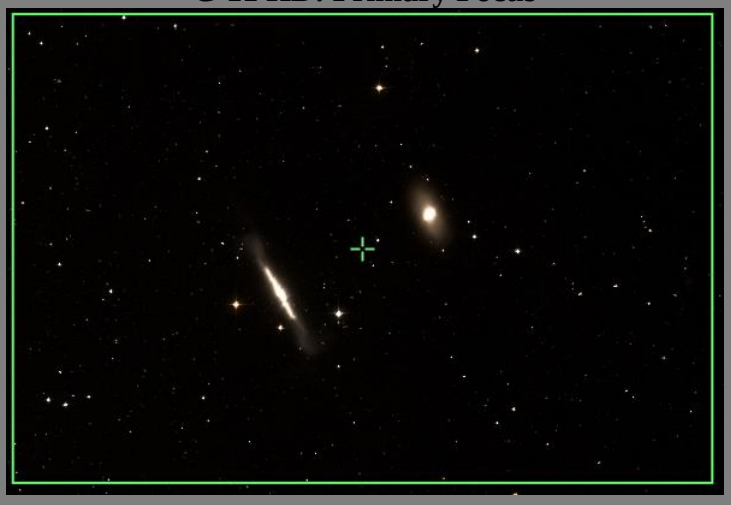
Close Star: **SAO-99809** (Denebola)
Catalog Objects: NGC-4676A & B
Imaging Window: **11:55 – 05:48**
Transit: **03:25 | 87°**

C-11 HD: Primary Focus

Prospective Imaging Objects – February

NGC-4725 (PGC-43451) Config: |C11-HD|FR|ZWO6200MC| Type: **Galaxy group** Constellation: **Coma Berenices** Coordinates: **12h 50' 55"** **25° 35' 59"** Close Star: **SAO-99809** (Denebola) Catalog Objects: NGC-4725, NGC-4712, NGC-4747 Imaging Window: **12:08 – 05:48** Transit: **03:29 | 82°**	**C-11 HD: Focal Reducer**  Galaxy Cluster NGC-4747, NGC-4725, NGC4712 Constellation: Coma Berenices
NGC-4725 (PGC-43451) Config: |C11HD|ZWO6200MC| Type: **Galaxy group** Constellation: **Coma Berenices** Coordinates: **12h 50' 50"** **25° 35' 23"** Close Star: **SAO-99809** (Denebola) Catalog Objects: NGC-4725, NGC-4712, NGC-4747 Imaging Window: **12:08 – 05:48** Transit: **03:29 | 82°**	**C-11 HD: Primary Focus** 
M-94 (NGC-4736) Config: |C11HD|ZWO6200MC| Type: **Galaxy** Constellation: **Canes Venatici** Coordinates: **12h 50' 53"** **41° 07' 17"** Close Star: **SAO-28553** (Alioth) Catalog Objects: M-94/NGC-4736 Imaging Window: **11:47 – 05:48** Transit: **03:30 | 82°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – February

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

Prospective Imaging Objects – February

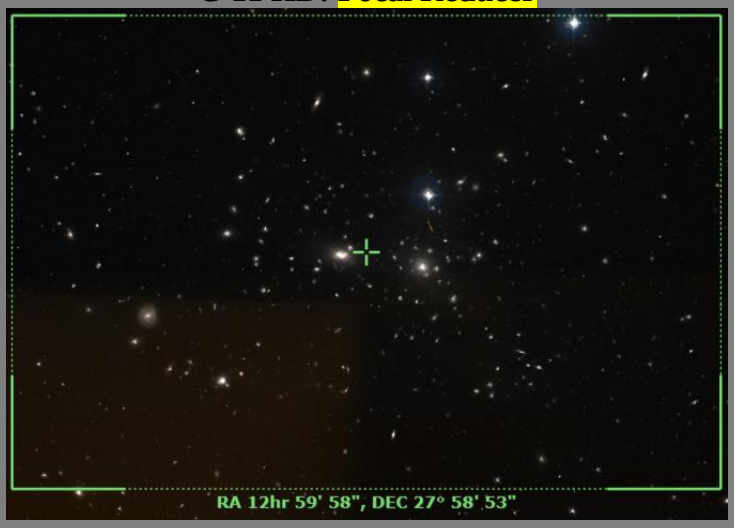
Coma Galaxy Cluster
(Abell-1656)
Config: |C11-HD|FR|ZWO6200MC|

Type: **Galaxy Cluster**

Constellation: **Coma Berenices**
Coordinates:
12h 59’ 58”
27° 58’ 53”

Close Star: **SAO-99809** (Denebola)
Catalog Objects: Abell-1656
Imaging Window: **12:13 – 05:48**
Transit: **03:39 | 84°**

C-11 HD: Focal Reducer



Coma Galaxy Cluster
(Abell-1656)
Config: |C11HD|ZWO6200MC|

Type: **Galaxy Cluster**

Constellation: **Coma Berenices**
Coordinates:
13h 00’ 06”
28° 00’ 31”

Close Star: **SAO-99809** (Denebola)
Catalog Objects: Abell-1656
Imaging Window: **12:13 – 05:48**
Transit: **03:39 | 84°**

C-11 HD: Primary Focus

M-53 (NGC-5024)
Config: |C11HD | ZWO6200MC|

Type: **Globular Cluster**
Constellation: **Coma Berenices**
Coordinates:
13h 12’ 55”
18° 10’ 11”

Close Star: **SAO-99809** (Denebola)
Catalog Objects: M-53/NGC-5024

Imaging Window: **12:46 – 05:48**
Transit: **03:52 | 75°**

C-11 HD: Primary Focus

Prospective Imaging Objects – February

NGC-5033 (PGC-45948)

Config: |C11HD|ZWO6200MC|

Type: **Spiral Galaxy**

Constellation: **Canes Venatici**
Coordinates:
13h 13’ 28”
36° 35’ 36”

Close Star: **SAO-28553** (Alioth)
Catalog Objects: NGC-5033/PGC-45948
Imaging Window: **12:14 – 05:48**
Transit: **03:52 | 87°**

C-11 HD: Primary Focus

Sunflower Galaxy (M-63)

Config: |C11HD|ZWO6200MC|

Type: **Spiral Galaxy**

Constellation: **Canes Venatici**
Coordinates:
13h 15’ 15”
42° 04’ 41”

Close Star: **SAO-28553** (Alioth)
Catalog Objects: M-63/NGC-5055, UGC-8313
Imaging Window: **12:12 – 05:48**
Transit: **03:55 | 81°**

C-11 HD: Primary Focus

NGC-5053

Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

Constellation: **Coma Berenices**
Coordinates:
13h 16’ 27”
17° 41’ 55”

Close Star: **SAO-99809** (Denebola)
Catalog Objects: NGC-5053
Imaging Window: 1**2:50 – 05:48**
Transit: **03:55 | 74°**

C-11 HD: Primary Focus

Prospective Imaging Objects – February

Whirlpool Galaxy (M-51) Config: |C11HD|ZWO6200MC| Type: **Interacting Galaxies** Constellation: **Canes Venatici** Coordinates: **13h 29’ 53”** **47° 11’ 44”** Close Star: **SAO-28553** (Alioth) Catalog Objects: M-51/NGC-5194, NGC-5195 Imaging Window: **12:23 – 05:48** Transit: **04:09 | 76°**	**C-11 HD: Primary Focus** 
M-3 (NGC-5272) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Constellation: **Canes Venatici** Coordinates: **13h 42’ 11”** **28° 22’ 34”** Close Star: **SAO-100944** (Arcturus) Catalog Objects: M-3/NGC-5272 Imaging Window: **12:55 – 05:48** Transit: **04:21 | 85°**	**C-11 HD: Primary Focus** 
Heron Galaxy (NGC-5395) et el. Config: |C11HD|ZWO6200MC| Type: **Galaxies** Constellation: **Canes Venatici** Coordinates: **13h 57’ 46”** **37° 35’ 31”** Close Star: **SAO-100944** (Arcturus) Catalog Objects: NGC-5395, NGC-5394, NGC-5380, NGC-5378 Imaging Window: **12:59 – 05:48** Transit: **04:37 | 86°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – February

Pinwheel Galaxy (M-101)

Config: |C11HD|ZWO6200MC|

Type: **Face-on Spiral Galaxy**

Constellation: **Ursa Major**
Coordinates:
14h 03’ 54”
54° 22’ 44”

Close Star: **SAO-28553** (Alioth)
Catalog Objects: M-101/NGC-5457, NGC-5477
Imaging Window: **12:56 – 05:48**
Transit: **04:42 | 69°**

C-11 HD: Primary Focus

NGC-5466

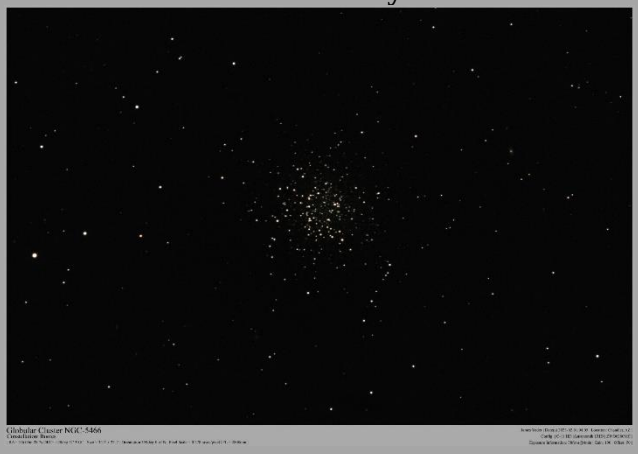
Config: |C11HD |ZWO6200MC|

Type: **Globular Cluster**
Constellation: **Bootes**
Coordinates:
14h 05’ 27”
28° 32’ 06”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: NGC-5466

Imaging Window: **01:18 – 05:48**
Transit: **04:44 | 85°**

C-11 HD: Primary Focus



Spindle Galaxy (M-102)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

Constellation: **Draco**
Coordinates:
15h 06’ 29”
55° 45’ 49”

Close Star: **SAO-28553** (Alioth)
Catalog Objects: M-102
Imaging Window: **02:00 – 05:48**
Transit: **05:45 | 69°**

C-11 HD: Primary Focus

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Page

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	Borad 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

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

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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

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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

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