Prospective Imaging Objects – July 05 2024

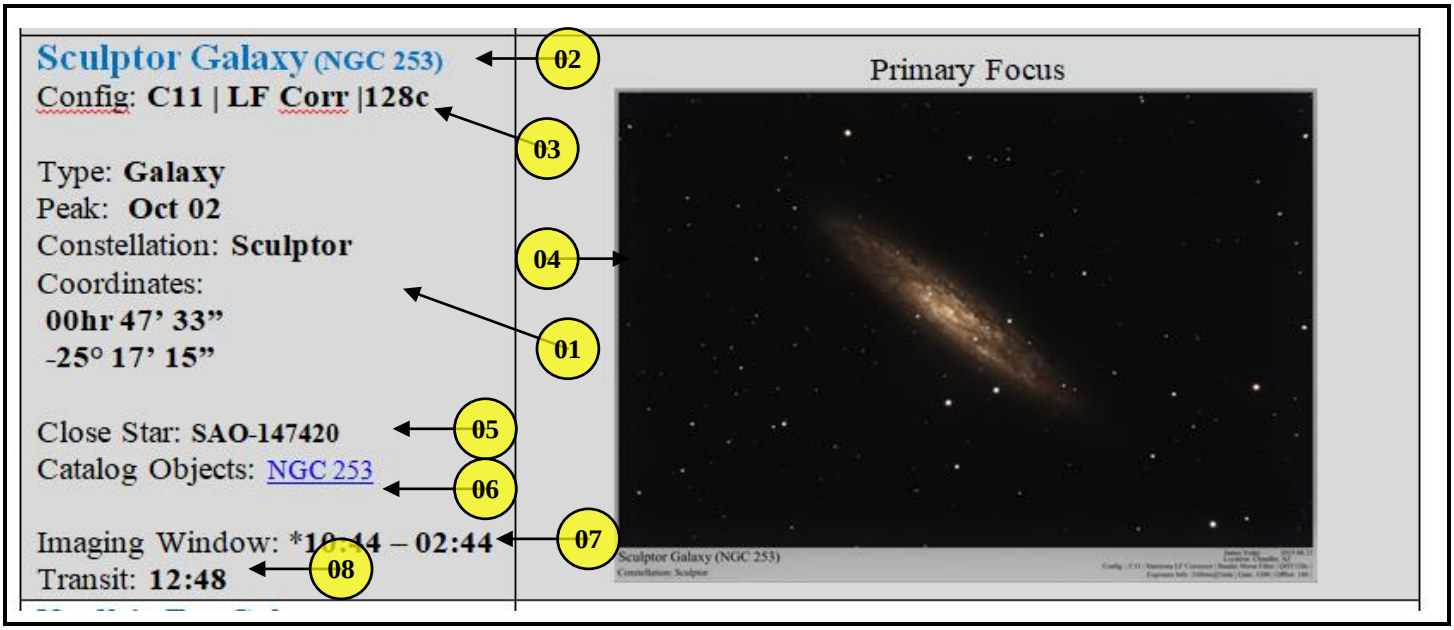
Astronomical Data

Sunrise	Sunset	Astronomical Dusk	Astronomical Dawn	Imaging	New Moon
05:24am	07:41 pm	09:23 pm	03:43 am	06:20	July 05

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 – July 05 2024

Sharpless 2-1 (SH2-1)
Config: **C11-HD | HS | ZWO6200MC**

Type: **Diffuse Nebula**

Constellation: **Scorpius**
Coordinates:
15h 56’ 09”
-25° 40’ 29”

Close Star: **SAO-208078** (Wei)
Catalog Objects: SH2-1/LBN-1093

Imaging Window: ***09:23 – 11:19**
Transit: **09:25 | 31°**

C-11 HD: HyperStar v4

Seyfert’s Sextet (NGC-6027A-E)
Config: |C11HD|ZWO6200MC|

Type: **Galaxy Group & One**

Constellation: **Serpens**
Coordinates:
15h 59’ 46”
20° 47’ 27”

Close Star: **SAO-83893**
Catalog Objects: NGC-6027A-E, UGC-10127
Imaging Window: **09:23 – 12:44**
Transit: **09:26 | 77°**

C-11 HD: Primary Focus

Hercules Galaxy Cluster (Abell-2151)
Config: |C11HD|ZWO6200MC|

Type: **Galaxy Cluster**

Constellation: **Hercules**
Coordinates:
16h 05’ 13”
17° 45’ 39”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: Abell-2151

Imaging Window: **09:23 – 12:43**
Transit: **09:32 | 74°**

C-11 HD: Primary Focus

Prospective Imaging Objects – July 05 2024

NGC-6058

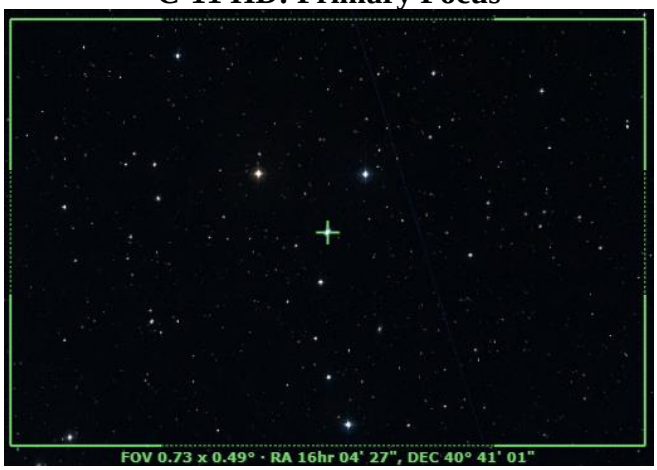
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Hercules**
Coordinates:
16h 04’ 27”
40° 41’ 01”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: NGC-6058
Imaging Window: **09:23 – 01:19**
Transit: **09:31 | 83°**

C-11 HD: Primary Focus



Tadpole Galaxy (Arp-188)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

Constellation: **Draco**
Coordinates:
16h 06’ 04”
55° 26’ 07”

Close Star: **SAO-28737** (Mizar)
Catalog Objects: Arp-188,
PGC-57087, 57114, 57108

Imaging Window: **09:23 – 01:25**
Transit: **09:32 | 68°**

C-11 HD: Primary Focus

White Eyed Pea (IC-4593)

Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Hercules**
Coordinates:
15h 11’ 45”
12° 03’ 45”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: IC-4593
Imaging Window: **09:23 – 12:35**
Transit: **09:38 | 69°**

C-11 HD: Primary Focus

Prospective Imaging Objects – July 05 2024

Blue Horshead (IC-4592) Config: **C11-HD | HS | ZWO6200MC** Type: **Bright Nebula** Constellation: **Scorpius** Coordinates: **16h 14’ 15”** **-19° 17’ 16”** Close Star: **SAO-184415** (Antares) Catalog Objects: IC-4592 Imaging Window: ***09:23 – 11:40** Transit: **09:39 | 37°**	**C-11 HD: HyperStar v4**  Blue Horse Nebula (IC-4592) Constellation: Scorpius
M-80 (NGC-6093) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Constellation: **Scorpius** Coordinates: **16h 17’ 02”** **-22° 58’ 28”** Close Star: **SAO-184415** (Antares) Catalog Objects: M-80/NGC-6093 Imaging Window: ***09:23 – 11:58** Transit: **09:43 | 34°**	**C-11 HD: Primary Focus**  Globular Culster M-80 Constellation: Scorpius
SH2-9 Config: |C11-HD|FR|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Scorpius** Coordinates: **16h 20’ 16”** **-25° 25’ 53”** Close Star: **SAO-184415** (Antares) Catalog Objects: SH2-9 Imaging Window: **09:23 – 11:43** Transit: **09:48 | 31°**	**C-11 HD: Focal Reducer** 

Prospective Imaging Objects – July 05 2024

M-4 (NGC-6121)

Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

Constellation: **Scorpius**
Coordinates:
16h 23’ 35”
-26° 31’ 29”

Close Star: **SAO-184415** (Antares)
Catalog Objects: M-4/NGC-6121
Imaging Window: ***09:23 – 11:40**
Transit: **09:50 | 30°**

C-11 HD: Primary Focus

Ophiuchus Complex (IC-4604)

Config: **C11-HD | HS | ZWO6200MC**
Composite with M-4
Type: **Bright Nebula**
Constellation: **Scorpius**
Coordinates:
Frame 01
RA: **16hr 26’ 46”** DEC: **-24° 08’ 13”**
Frame 02
RA: **16hr 26’ 46”** DEC: **-26° 14’ 42”**

Close Star: **SAO-184415** (Antares)
Catalog Objects: IC-4604

Imaging Window: ***09:23 – 12:07**
Transit: **09:52 | 33°**

C-11 HD: HyperStar v4
Composite!

Perfect Planetary Nebula (Abell-39)

Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Hercules**
Coordinates:
16h 27’ 34”
27° 54’ 29”

Close Star: **SAO-84951** (Sarin)
Catalog Objects: Abell-39/PN A66 39
Imaging Window: **09:23 – 01:26**
Transit: **09:54 | 84°**

C-11 HD: Primary Focus

Prospective Imaging Objects – July 05 2024

M-107 (NGC-6171)

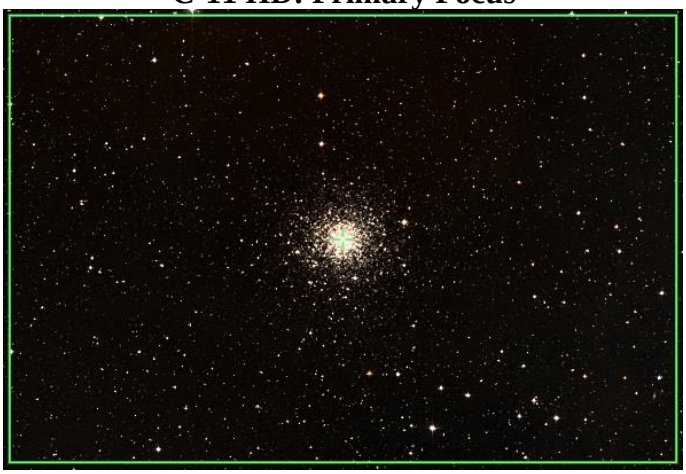
Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

Constellation: **Ophiuchus**
Coordinates:
16h 32’ 32”
-13° 03’ 11”

Close Star: **SAO-160006** (zeta Ophi)
Catalog Objects: M-107/NGC-6171
Imaging Window: ***09:23 – 12:04**
Transit: **09:59 | 44°**

C-11 HD: Primary Focus



Hercules Cluster (M-13)

Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

Constellation: **Hercules**
Coordinates:
16h 41’ 41”
36° 27’ 39”

Close Star: **SAO-067174** (Vega)
Catalog Objects: M-13/NGC-6205
Imaging Window: **09:23 – 01:52**
Transit: **10:08 | 87°**

C-11 HD: Primary Focus

Turtle Nebula (NGC-6210)

Config: |C11HD|ZWO6200MC|

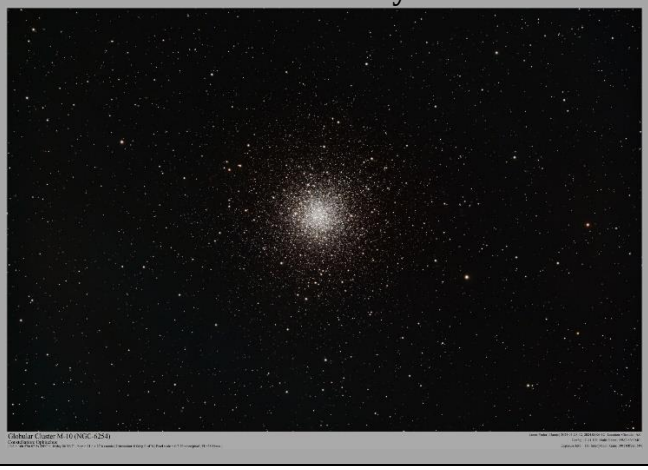
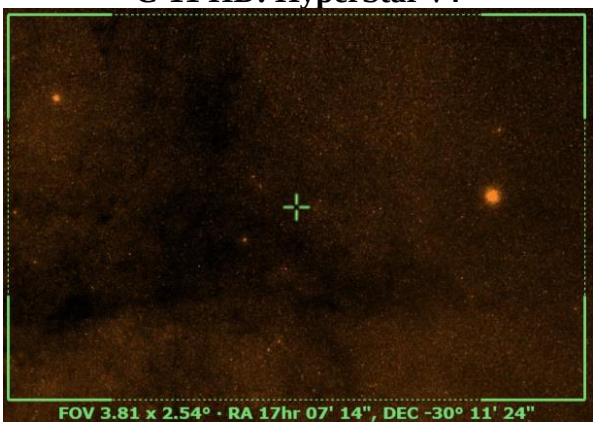
Type: **Planetary Nebula**

Constellation: **Hercules**
Coordinates:
16h 44’ 29”
23° 48’ 02”

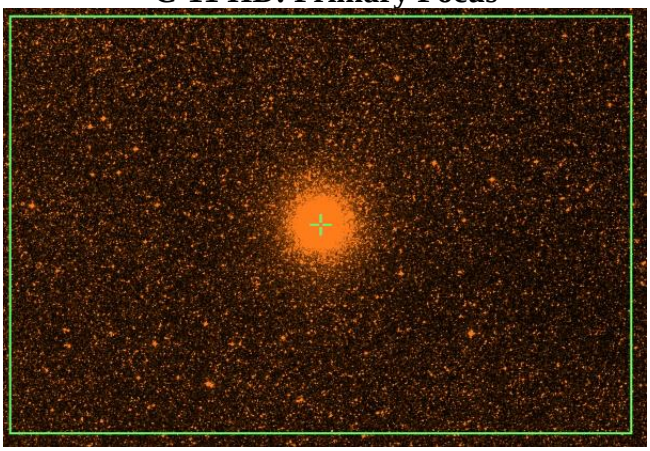
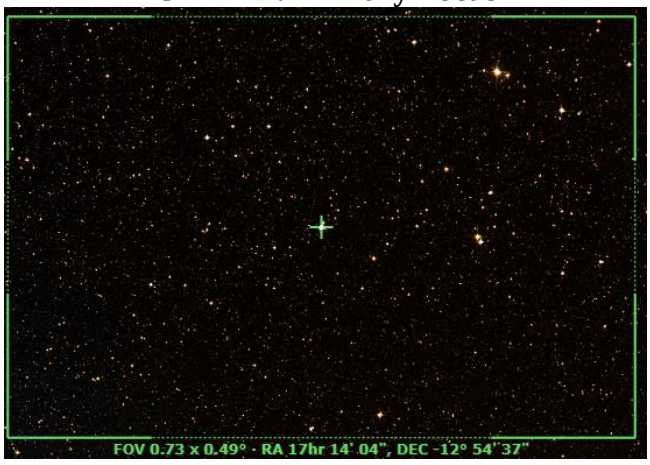
Close Star: **SAO-84411 (Kornephoros)**
Catalog Objects: NGC-6210
Imaging Window: **09:23 – 01:35**
Transit: **10:11 | 80°**

C-11 HD: Primary Focus

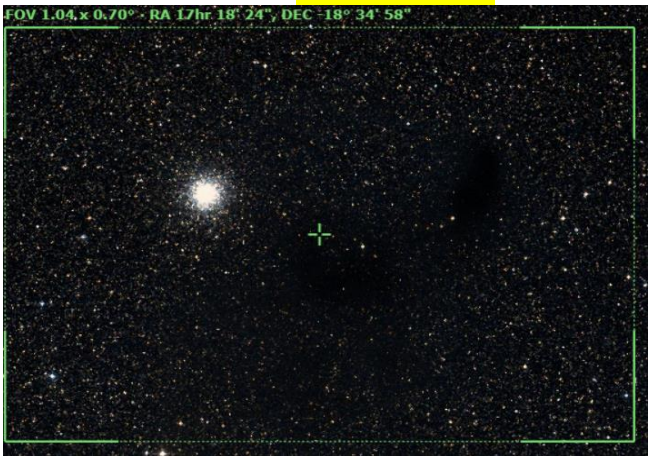
Prospective Imaging Objects – July 05 2024

M-12(NGC-6218) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Constellation: **Ophiuchus** Coordinates: **16h 47' 15"** **-01° 56' 50"** Close Star: **SAO-160006** (zeta Ophi) Catalog Objects: M-12/NGC-6218 Imaging Window: **09:23 – 12:15** Transit: **10:13 | 55°**	**C-11 HD: Primary Focus** 
M-10(NGC-6254) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Constellation: **Ophiuchus** Coordinates: **16h 57' 09"** **-04° 05' 56"** Close Star: **SAO-160006** (zeta Ophi) Catalog Objects: M-10/NGC-6254 Imaging Window: **09:23 – 12:12** Transit: **10:23 | 53°**	**C-11 HD: Primary Focus** 
M-62 Region (NGC-6266) Config: **C11-HD | HS | ZWO6200MC** Type: **Globular Cluster** Constellation: **Ophiuchus** Coordinates: **16h 25' 36"** **-23° 27' 00"** Close Star: **SAO-160006** (zeta Ophi) Catalog Objects: M-62/NGC-6266 Imaging Window: ***09:23 – 11:36** Transit: **10:27 | 33°**	**C-11 HD: HyperStar v4** 

Prospective Imaging Objects – July 05 2024

M-62(NGC-6266) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Constellation: **Ophiuchus** Coordinates: **17h 01' 13"** **-30° 06' 42"** Close Star: **SAO-160006** (zeta Ophi) Catalog Objects: M-62/NGC-6266 Imaging Window: ***09:23 – 11:36** Transit: **10:27 | 33°**	**C-11 HD: Primary Focus** 
M-19(NGC-6273) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Constellation: **Ophiuchus** Coordinates: **17h 02' 38"** **-26° 16' 03"** Close Star: **SAO-160006** (zeta Ophi) Catalog Objects: M-19/NGC-6273 Imaging Window: ***09:23 – 12:19** Transit: **10:29 | 30°**	**C-11 HD: Primary Focus** 
Box Nebula (NGC-6309) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Ophiuchus** Coordinates: **17h 14' 04"** **-12° 54' 37"** Close Star: **SAO-160332** (Sabik) Catalog Objects: NGC-6309 Imaging Window: ***09:23 – 12:43** Transit: **10:40 | 44°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – July 05 2024

M-92(NGC-6341) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Constellation: **Hercules** Coordinates: **17h 17' 07"** **43° 08' 13"** Close Star: **SAO-067174** (Vega) Catalog Objects: M-92/NGC-6341 Imaging Window: **09:23 – 02:34** Transit: **10:43 | 80°**	**C-11 HD: Primary Focus** 
M-9(NGC-6333) Config: |C11-HD|FR|ZWO6200MC| Type: **Glob Cluster & DNeb** Constellation: **Ophiuchus** Coordinates: **17h 18' 24"** **-18° 34' 58"** Close Star: **SAO-160006** (zeta Ophi) Catalog Objects: M-9/NGC-6333 Imaging Window: ***09:23 – 12:58** Transit: **10:45 | 38°**	**C-11 HD: Focal Reducer** 
M-9(NGC-6333) Config: |C11HD|ZWO6200MC| Type: **Glob Cluster & DNeb** Constellation: **Ophiuchus** Coordinates: **17h 19' 12"** **-18° 30' 57"** Close Star: **SAO-160006** (zeta Ophi) Catalog Objects: M-9/NGC-6333 Imaging Window: ***09:23 – 12:58** Transit: **10:45 | 38°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – July 05 2024

Dark Horse Nebula (LDN 42)

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

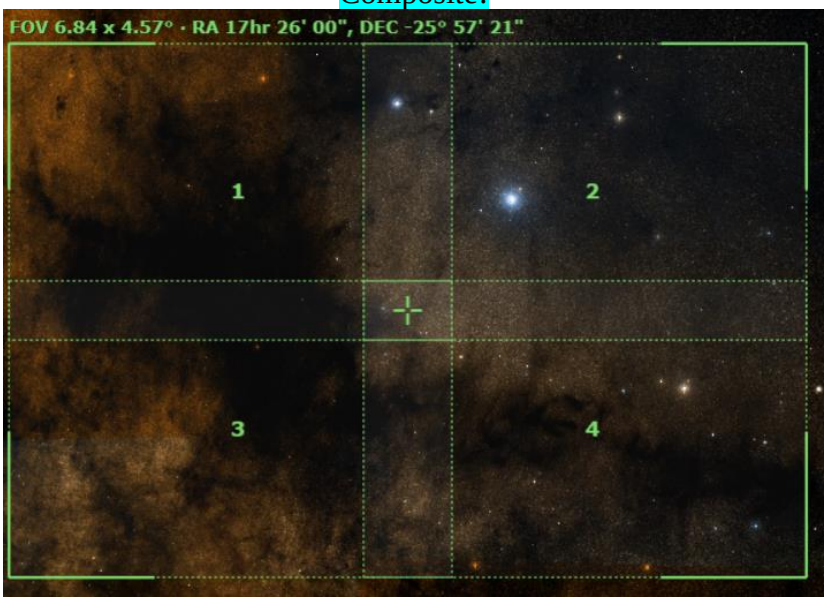
Type: **Dark Nebula**

Constellation: **Ophiuchus**
Frame 01
RA: **17hr 32' 42"** DEC: **-24º 55' 48"**
Frame 02
RA: **17hr 19' 18"** DEC: **-24º 55' 48"**
Frame 03
RA: **17hr 32' 49"** DEC: **-26º 57' 43"**
Frame 04
RA: **17hr 19' 11"** DEC: **-26º 57' 43"**

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

Catalog Objects: LDN-42
Imaging Window: ***09:23 – 12:51**
Transit: **10:58 | 31°**

C-11 HD: HyperStar v4
Composite!



Pipe Nebula (LDN 1773)

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

Type: **Dark Nebula**

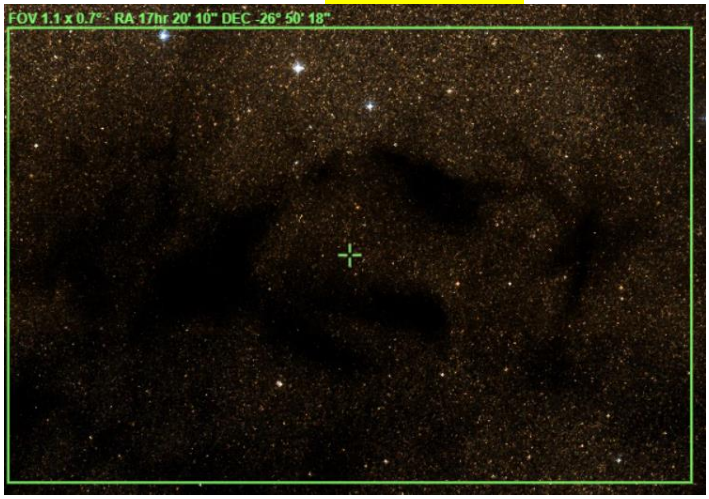
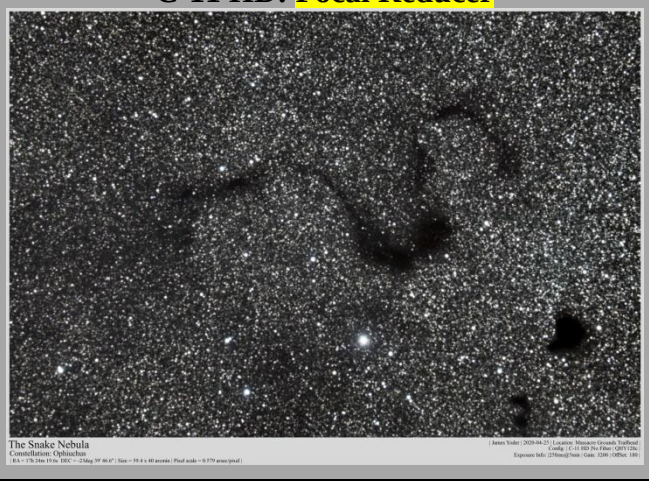
Constellation: **Ophiuchus**
Coordinates:
17h 19' 54"
-26° 52' 60"

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

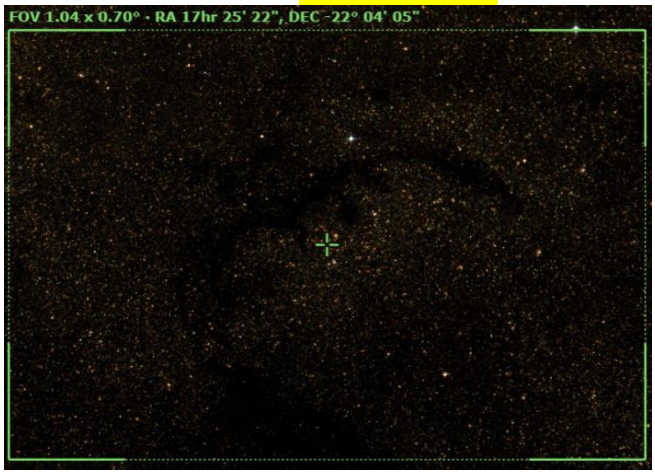
Catalog Objects: LDN-1773
Imaging Window: ***09:23 – 12:33**
Transit: **10:46 | 30°**

C-11 HD: HyperStar v4

Prospective Imaging Objects – July 05 2024

Pipe Nebula (LDN 1773) Config: |C11-HD|FR|ZWO6200MC| Type: **Dark Nebula** Constellation: **Ophiuchus** Coordinates: **17h 20' 10"** **-26° 50' 18"** Close Star: **SAO-184415** (Antares) Catalog Objects: LDN-1773 Imaging Window: ***09:23 – 12:33** Transit: **10:46 | 30°**	**C-11 HD: Focal Reducer** 
The Snake Nebula (B-72) Config: **C11-HD | HS | ZWO6200MC** Type: **Dark Nebula** Constellation: **Ophiuchus** Coordinates: **17h 25' 49"** **-23° 58' 05"** Close Star: **SAO-160006** (zeta Ophi) Catalog Objects: B-72/LDN-66 Imaging Window: ***09:23 – 01:04** Transit: **10:50 | 33°**	**C-11 HD: HyperStar v4** 
The Snake Nebula (B-72) Config: |C11-HD|FR|ZWO6200MC| Type: **Dark Nebula** Constellation: **Ophiuchus** Coordinates: **17h 24' 19"** **-23° 39' 06"** Close Star: **SAO-160006** (zeta Ophi) Catalog Objects: B-72/LDN-66 Imaging Window: ***09:23 – 01:04** Transit: **10:50 | 33°**	**C-11 HD: Focal Reducer** 

Prospective Imaging Objects – July 05 2024

Barnard 75 (B-75) Config: |C11-HD|FR|ZWO6200MC| Type: **Dark Nebula** Constellation: **Ophiuchus** Coordinates: **17h 25' 22"** **-22° 04' 05"** Close Star: **SAO-184415** (Antares) Catalog Objects: B-75/LDN-112 Imaging Window: ***09:23 – 12:33** Transit: **10:51 | 35°**	**C-11 HD: Focal Reducer** 
Little Ghost (NGC-6369) Config: |C11HD| ZWO6200MC| Type: **Planetary Nebula** Constellation: **Ophiuchus** Coordinates: **17h 29' 20"** **-23° 45' 33"** Close Star: **SAO-160006** (zeta Ophi) Catalog Objects: NGC-6369 Imaging Window: ***09:23 – 01:11** Transit: **10:55 | 33°**	**C-11 HD: Primary Focus** 
M-14(NGC-6402) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Constellation: **Ophiuchus** Coordinates: **17h 37' 36"** **-03° 14' 43"** Close Star: **SAO-160006** (zeta Ophi) Catalog Objects: M-14/NGC-6402 Imaging Window: **09:23 – 12:57** Transit: **11:04 | 53°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – July 05 2024

Butterfly Cluster (M-6)

Config: |C11HD|ZWO6200MC|

Type: **Open Cluster**

Constellation: **Scorpius**
Coordinates:
17h 40’ 20”
-32° 15’ 30”

Close Star: **SAO-210091** (Kaus Aus..)
Catalog Objects: M-6/NGC-6405
Imaging Window: ***09:23 – 12:51**
Transit: **11:06 | 24°**

C-11 HD: Primary Focus

Praying Matis Nebula (B-84)

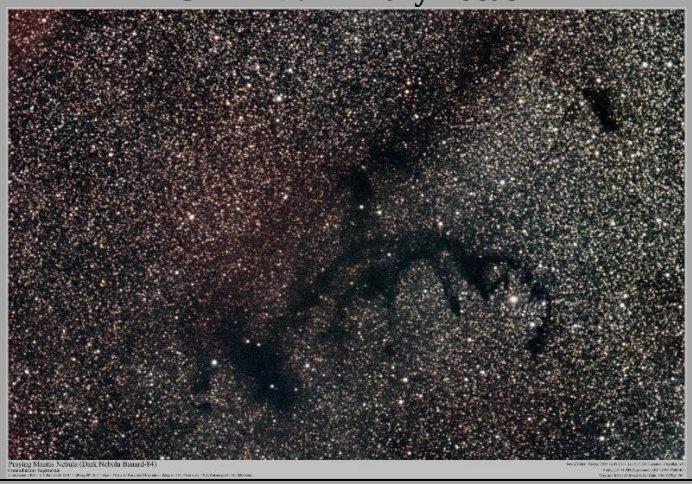
Config: |C11HD|ZWO6200MC|

Type: **Dark Nebula**

Constellation: **Sagittarius**
Coordinates:
17h 46’ 24”
-20° 08’ 31”

Close Star: **SAO-210091** (Kaus Aus..)
Catalog Objects: B-84/LDN-235
Imaging Window: ***09:23 – 01:04**
Transit: **11:13 | 36°**

C-11 HD: Primary Focus



Box Nebula (NGC-6445)

Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Sagittarius**
Coordinates:
17h 49’ 15”
-20° 00’ 32”

Close Star: **SAO-210091** (Kaus Aus..)
Catalog Objects: NGC-6445
Imaging Window: ***09:23 – 01:08**
Transit: **11:15 | 37°**

C-11 HD: Primary Focus

Prospective Imaging Objects – July 05 2024

Ptolemy Cluster(M-7) Config: |C11HD|ZWO6200MC| Type: **Open Cluster** Constellation: **Scorpius** Coordinates: **17h 53' 39"** **-34° 48' 53"** Close Star: **SAO-210091** (Kaus Aus..) Catalog Objects: M-7/NGC-6475 Imaging Window: ***10:15 – 12:33** Transit: **11:20 | 22°**	**C-11 HD: Primary Focus** 
M-23(NGC-6494) Config: |C11HD|ZWO6200MC| Type: **Open Cluster** Constellation: **Sagittarius** Coordinates: **17h 56' 56"** **-19° 00' 42"** Close Star: **SAO-184415** (Antares) Catalog Objects: M-23/NGC-6494 Imaging Window: ***09:25 – 01:30** Transit: **11:23 | 38°**	**C-11 HD: Primary Focus** 
Cat's Eye Nebula(NGC-6543) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Draco** Coordinates: **17h 59' 00"** **66° 37' 39"** Close Star: **SAO-18222** (Altais) Catalog Objects: NGC-6543 Imaging Window: **09:23 – 02:56** Transit: **11:25 | 57°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – July 05 2024

Lagoon Region

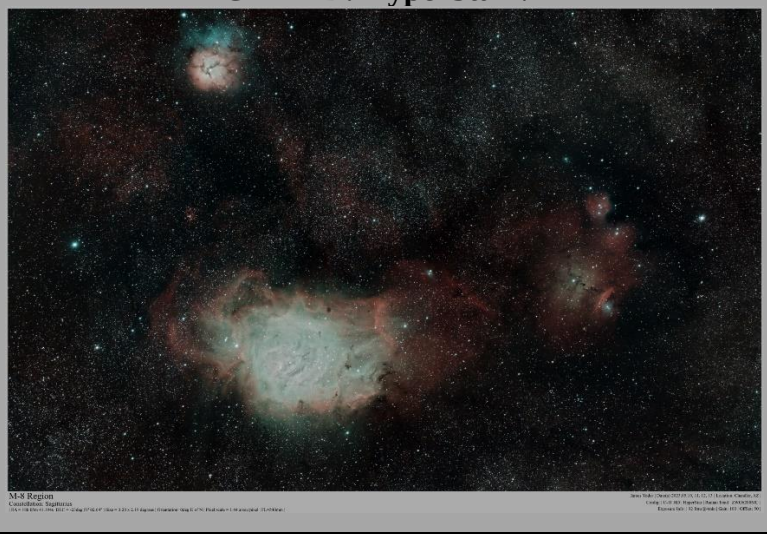
Config: **C11-HD | HS | ZWO6200MC**

Type: **Diffuse Nebula**

Constellation: **Sagittarius**
Coordinates:
18h 05’ 54”
-23° 56’ 32”

Close Star: **SAO-186841** (Kaus Borealis)
Catalog Objects: M-8/NGC-6523, M-20, NGC-6544
Imaging Window: ***09:23 – 01:43**
Transit: **11:29 | 34°**

C-11 HD: HyperStar v4



Trifid Nebula(M-20)

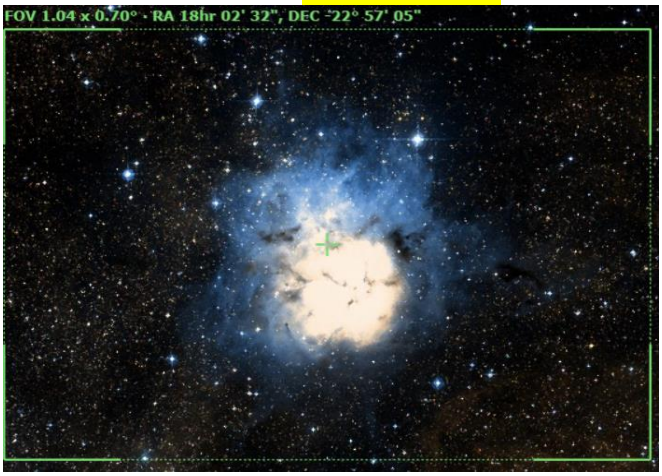
Config: |C11-HD|FR|ZWO6200MC|

Type: **Diffuse Nebula**

Constellation: **Sagittarius**
Coordinates:
18h 02’ 32”
-22° 57’ 05”

Close Star: **SAO-186841** (Kaus Borealis)
Catalog Objects: M-8/NGC-6523
Imaging Window: ***09:23 – 01:43**
Transit: **11:29 | 34°**

C-11 HD: Focal Reducer



Trifid Nebula(M-20)

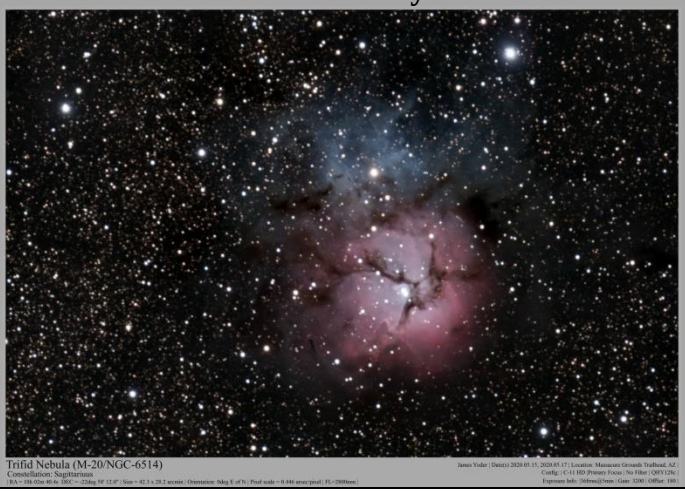
Config: |C11HD|ZWO6200MC|

Type: **Diffuse Nebula**

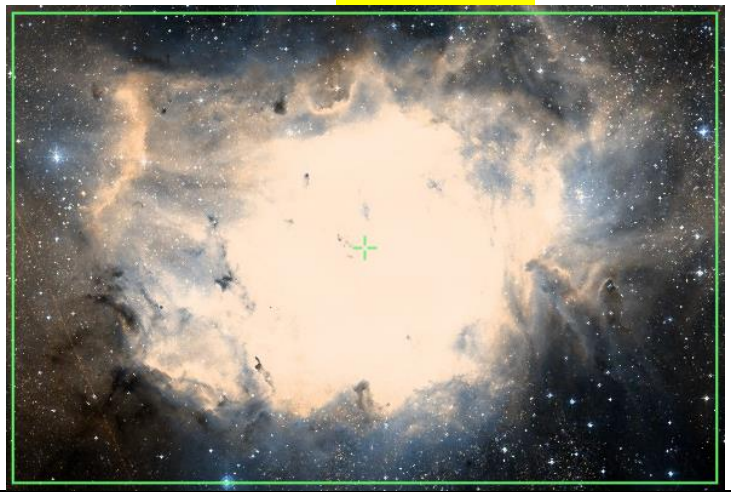
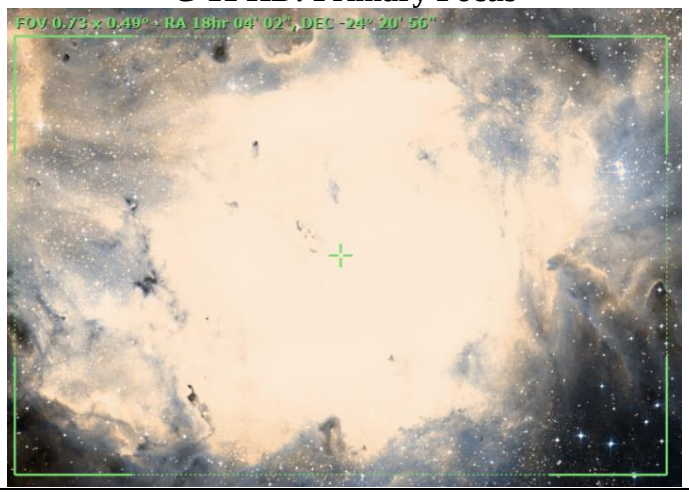
Constellation: **Sagittarius**
Coordinates:
18h 02’ 42”
-22° 57’ 60”

Close Star: **SAO-186841** (Kaus Borealis)
Catalog Objects: M-20/NGC-6514
Imaging Window: ***09:23 – 01:43**
Transit: **11:29 | 34°**

C-11 HD: Primary Focus



Prospective Imaging Objects – July 05 2024

Lagoon Nebula (M-8) Config: |C11-HD|FR|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Sagittarius** Coordinates: **18h 04' 04"** **-24° 19' 52"** Close Star: **SAO-186841** (Kaus Borealis) Catalog Objects: M-8/NGC-6523 Imaging Window: ***09:28 – 01:34** Transit: **11:30 | 32°**	**C-11 HD: Focal Reducer** 
Lagoon Nebula (M-8) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Sagittarius** Coordinates: **18h 04' 02"** **-24° 20' 56"** Close Star: **SAO-186841** (Kaus Borealis) Catalog Objects: M-8/NGC-6523 Imaging Window: ***09:28 – 01:34** Transit: **11:30 | 32°**	**C-11 HD: Primary Focus** 
M-21(NGC-6531) Config: |C11HD|ZWO6200MC| Type: **Open Cluster** Constellation: **Sagittarius** Coordinates: **18h 04' 13"** **-22° 30' 00"** Close Star: **SAO-186841** (Kaus Borealis) Catalog Objects: M-21/NGC-6531 Imaging Window: ***10:04 – 01:08** Transit: **11:30 | 34°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – July 05 2024

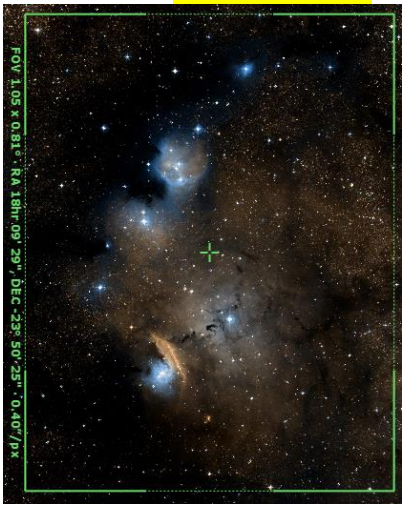
IC-4685 (IC-4685)
Config: |C11-HD|FR|ZWO6200MC|

Type: **Bright Nebula**

Constellation: **Sagittarius**
Coordinates:
18h 09’ 29”
-23° 50’ 25”

Close Star: **SAO-209696** (Alnasl)
Rotation 90°
Catalog Objects: IC-1274
Imaging Window: ***09:31 – 01:51**
Transit: **11:37 | 33°**

C-11 HD: Focal Reducer



IC-1274 (IC-1275)
Config: |C11-HD|FR|ZWO6200MC|

Type: **Bright Nebula**

Constellation: **Sagittarius**
Coordinates:
18h 09’ 41”
-23° 52’ 50”

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

Catalog Objects: IC-1274
Imaging Window: ***09:31 – 01:51**
Transit: **11:37 | 33°**

C-11 HD: Focal Reducer

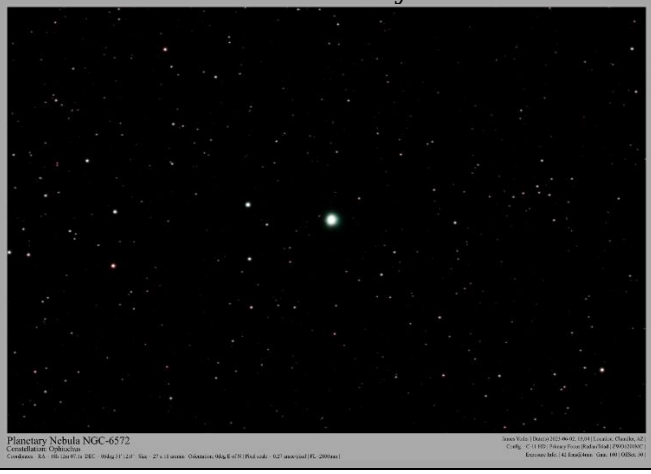
Emerald Nebula (NGC-6572)
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Ophiuchus**
Coordinates:
18h 12’ 06”
06° 51’ 15”

Close Star: **SAO-102932** (Rasalhague)
Catalog Objects: NGC-6572
Imaging Window: **09:23 – 02:18**
Transit: **11:38 | 64°**

C-11 HD: Primary Focus



Prospective Imaging Objects – July 05 2024

B-93 (LDN-327)

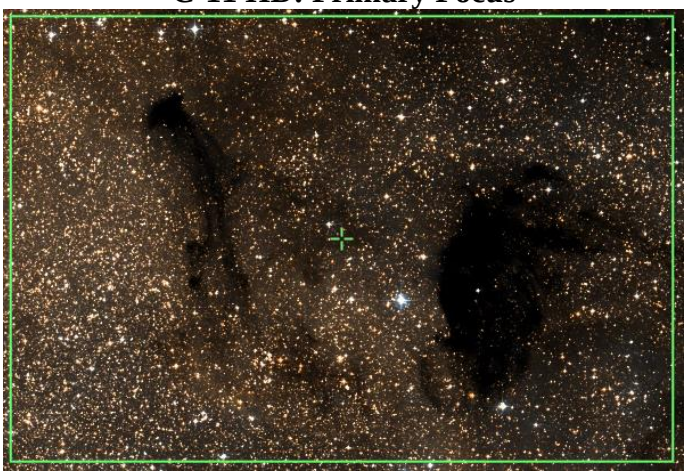
Config: |C11HD|ZWO6200MC|

Type: **Dark Nebula**

Constellation: **Sagittarius**
Coordinates:
18h 16’ 12”
-18° 10’ 19”

Close Star: **SAO-186841** (Kaus Borealis)
Catalog Objects: B-93/LDN-327, B-92
Imaging Window: ***09:31 – 01:55**
Transit: **11:43 | 30°**

C-11 HD: Primary Focus



IC-1283 Region (NGC-6589)

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

Type: **Dark Nebula**

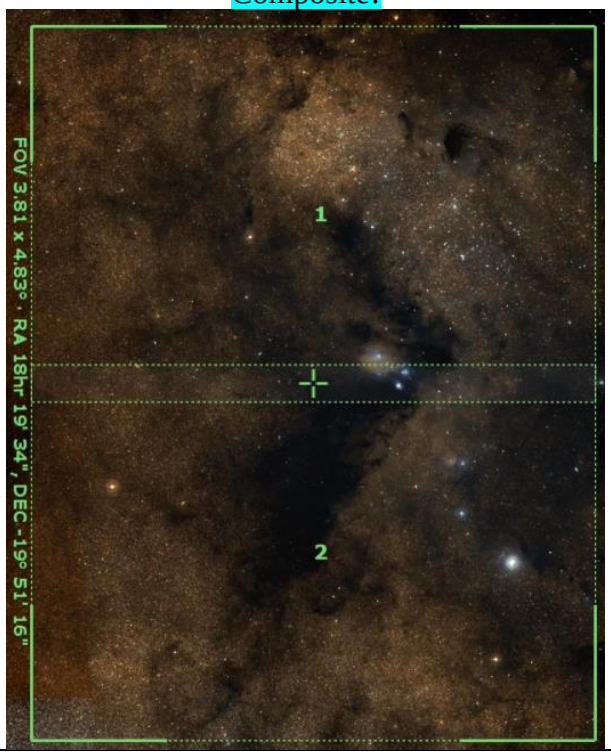
Constellation: **Sagittarius**
Coordinates:

- **Frame 1**
  - **RA: 18h 19’ 34”**
  - **DEC: -18° 42’ 41”**
- **Frame 2**
  - **RA: 18h 19’ 34”**
  - **DEC: -20° 59’ 51”**

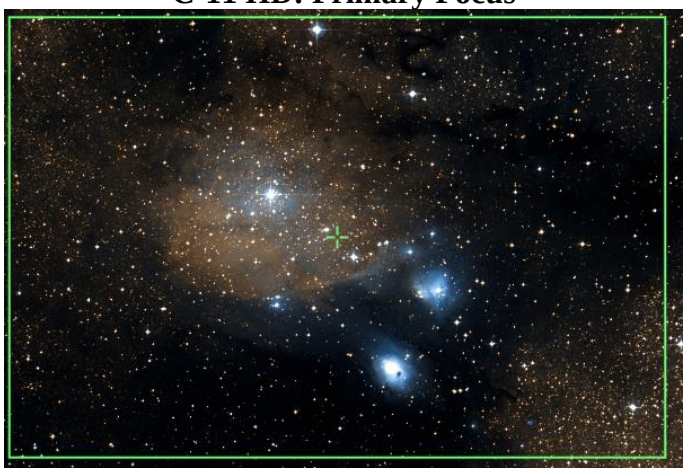
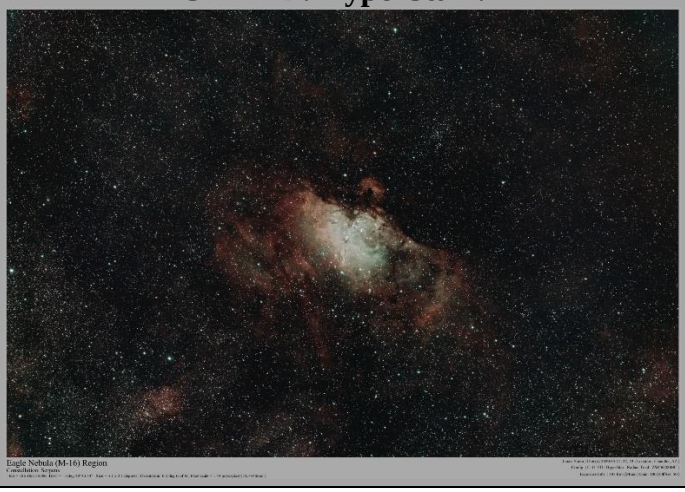
Close Star: **SAO-186841** (Kaus Borealis)
Catalog Objects: IC-1283/NGC-6589

Imaging Window: ***09:46 – 01:40**
Transit: **11:43 | 37°**

C-11 HD: HyperStar v4
Composite!



Prospective Imaging Objects – July 05 2024

IC-1283(NGC-6589) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Sagittarius** Coordinates: **18h 17' 21"** **-19° 43' 10"** Close Star: **SAO-186841** (Kaus Borealis) Catalog Objects: IC-1283/NGC-6589 Imaging Window: ***09:46 – 01:40** Transit: **11:43 | 37°**	**C-11 HD: Primary Focus** 
Sagittarius Star Cloud(M-24) Config: |C11-HD|FR|ZWO6200MC| Type: **Open Cluster** Constellation: **Sagittarius** Coordinates: **18h 18' 42"** **-18° 30' 43"** Close Star: **SAO-184415** (Antares) Catalog Objects: M-24/IC-4715, NGC-6603 Imaging Window: ***09:38 – 01:48** Transit: **11:43 | 38°**	**C-11 HD: Focal Reducer** 
Eagle Nebula(M-16) Config: |C11-HD|HS|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Serpens** Coordinates: **18h 18' 52"** **-13° 51' 27"** Close Star: **SAO-186841** (Kaus Borealis) Catalog Objects: M-16/NGC-6611 Imaging Window: ***09:46– 01:48** Transit: **11:45 | 43°**	**C-11 HD: HyperStar v4** 

Prospective Imaging Objects – July 05 2024

Eagle Nebula(M-16)

Config: |C11-HD|FR|ZWO6200MC|

Type: **Diffuse Nebula**

Constellation: **Serpens**
Coordinates:
18h 18’ 52”
-13° 51’ 27”

Close Star: **SAO-186841** (Kaus Borealis)
Catalog Objects: M-16/NGC-6611
Imaging Window: ***09:46– 01:48**
Transit: **11:45 | 43°**

C-11 HD: Focal Reducer

M-18(NGC-6613)

Config: |C11HD|ZWO6200MC|

Type: **Open Cluster**

Constellation: **Sagittarius**
Coordinates:
18h 19’ 58”
-17° 06’ 06”

Close Star: **SAO-186841** (Kaus Borealis)
Catalog Objects: M-18/NGC-6613
Imaging Window: ***10:18 – 01:19**
Transit: **11:46 | 40°**

C-11 HD: Primary Focus

Omega Nebula(M-17)

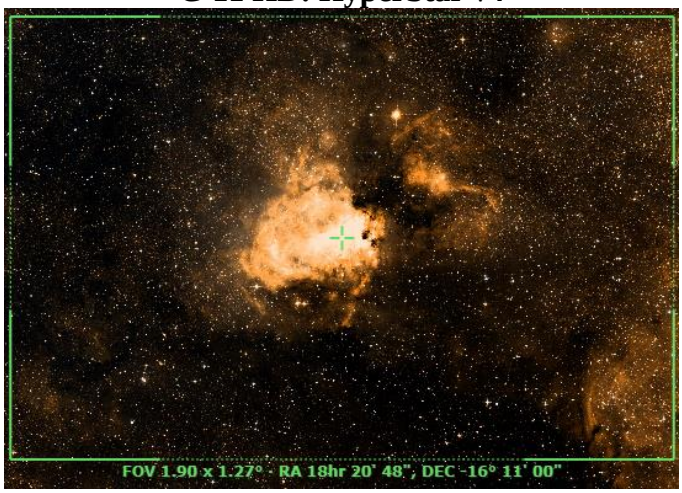
Config: |C11-HD|HS|ZWO6200MC|

Type: **Diffuse Nebula**

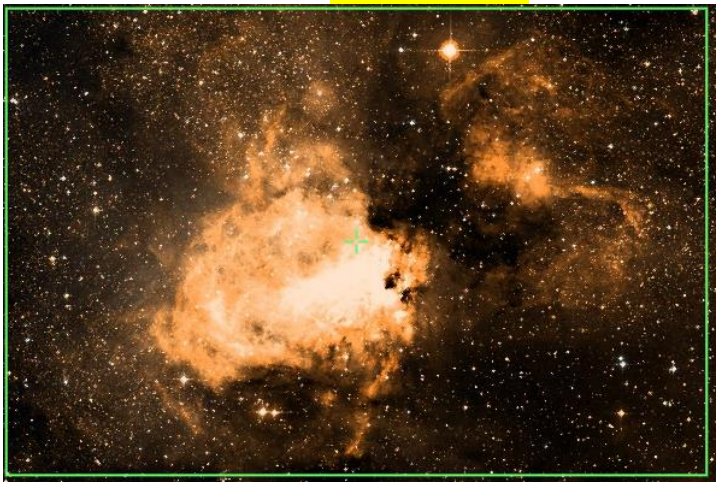
Constellation: **Sagittarius**
Coordinates:
18h 20’ 44”
-16° 07’ 04”

Close Star: **SAO-186841** (Kaus Borealis)
Catalog Objects: M-17/NGC-6618, NGC-6618
Imaging Window: ***10:07 – 01:26**
Transit: **11:47 | 40°**

C-11 HD: HyperStar v4



Prospective Imaging Objects – July 05 2024

Omega Nebula(M-17) Config: |C11-HD|FR|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Sagittarius** Coordinates: **18h 20' 44"** **-16° 07' 04"** Close Star: **SAO-186841** (Kaus Borealis) Catalog Objects: M-17/NGC-6618, NGC-6618 Imaging Window: ***10:07 – 01:26** Transit: **11:47 | 40°**	**C-11 HD: Focal Reducer** 
Omega Nebula(M-17) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Sagittarius** Coordinates: **18h 20' 44"** **-16° 07' 04"** Close Star: **SAO-186841** (Kaus Borealis) Catalog Objects: M-17/NGC-6618, NGC-6618 Imaging Window: ***10:07 – 01:26** Transit: **11:47 | 40°**	**C-11 HD: Primary Focus** 
M-28(NGC-6626) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Constellation: **Sagittarius** Coordinates: **18h 24' 33"** **-24° 52' 10"** Close Star: **SAO-186841** (Kaus Borealis) Catalog Objects: M-28/NGC-6626 Imaging Window: ***09:49 – 01:58** Transit: **11:51 | 32°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – July 05 2024

NGC-6629

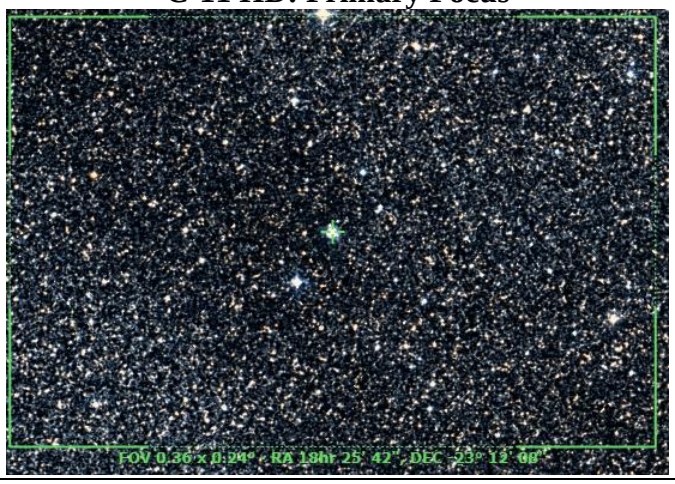
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Sagittarius**
Coordinates:
18h 25’ 42”
-23° 12’ 08”

Close Star: **SAO-186841** (Kaus Borealis)
Catalog Objects: NGC-6629
Imaging Window: ***09:38 – 01:16**
Transit: **11:52 | 33°**

C-11 HD: Primary Focus



NGC-6633

Config: |C11HD|ZWO6200MC|

Type: **Open Cluster**

Constellation: **Ophiuchus**
Coordinates:
18h 27’ 15”
06° 30’ 30”

Close Star: **SAO-125122** (Altair)
Catalog Objects: NGC-6633
Imaging Window: **09:23 – 02:33**
Transit: **11:53 | 63°**

C-11 HD: Primary Focus

M-69(NGC-6637)

Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

Constellation: **Sagittarius**
Coordinates:
18h 31’ 23”
-32° 20’ 51”

Close Star: **SAO-186841** (Kaus Borealis)
Catalog Objects: M-69/NGC-6637
Imaging Window: ***10:15 – 01:37**
Transit: **11:57 | 24°**

C-11 HD: Primary Focus

Prospective Imaging Objects – July 05 2024

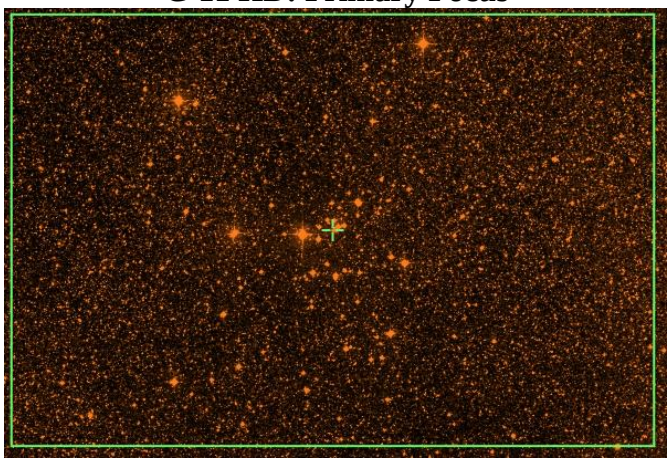
M-25 (IC-4725)
Config: |C11HD|ZWO6200MC|

Type: **Open Cluster**

Constellation: **Sagittarius**
Coordinates:
18h 31’ 45”
-19° 07’ 12”

Close Star: **SAO-186841** (Kaus Borealis)
Catalog Objects: M-25
Imaging Window: ***09:56 – 02:01**
Transit: **11:58 | 37°**

C-11 HD: Primary Focus



M-22(NGC-6656)
Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

Constellation: **Sagittarius**
Coordinates:
18h 36’ 24”
-23° 54’ 10”

Close Star: **SAO-186841** (Kaus Borealis)
Catalog Objects: M-22/NGC-6656
Imaging Window: ***09:56 – 02:16**
Transit: **11:02 | 33°**

C-11 HD: Primary Focus

M-70(NGC-6681)
Config: |C11HD|ZWO6200MC|

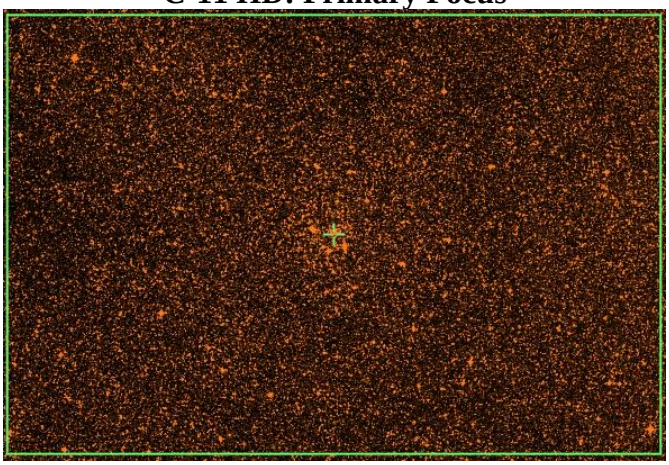
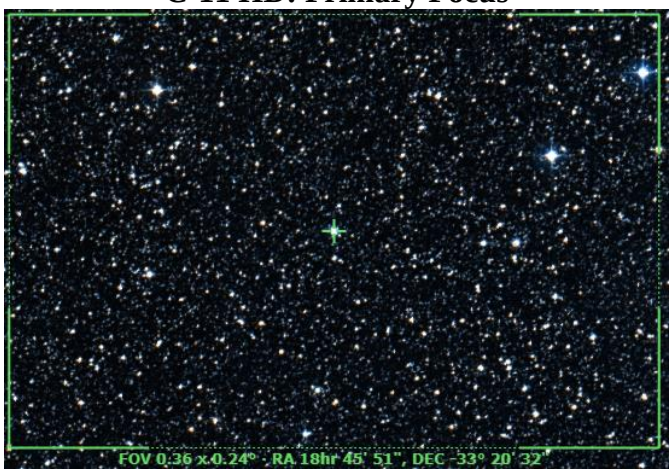
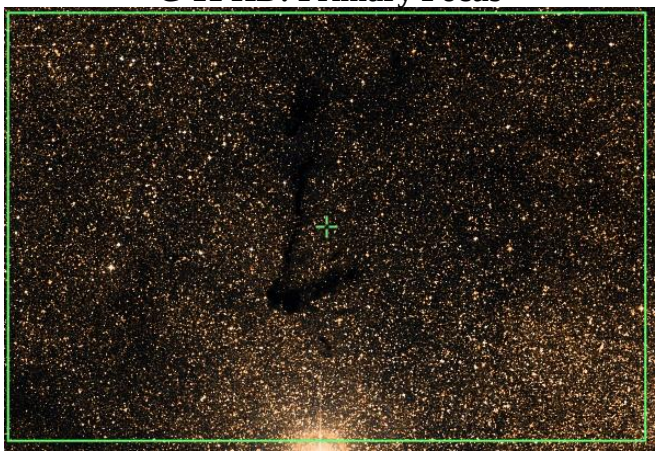
Type: **Globular Cluster**

Constellation: **Sagittarius**
Coordinates:
18h 43’ 13”
-32° 17’ 29”

Close Star: **SAO-186841** (Kaus Borealis)
Catalog Objects: M-70/NGC-6681
Imaging Window: ***10:25 – 01:51**
Transit: **12:09 | 24°**

C-11 HD: Primary Focus

Prospective Imaging Objects – July 05 2024

M-26(NGC-6694) Config: |C11HD|ZWO6200MC| Type: **Open Cluster** Constellation: **Sagittarius** Coordinates: **18h 45' 15"** **-09° 23' 06"** Close Star: **SAO-125122** (Altair) Catalog Objects: M-26/NGC-6694 Imaging Window: ***10:22 – 01:58** Transit: **12:11 | 47°**	**C-11 HD: Primary Focus** 
IC-4776 Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Sagittarius** Coordinates: **18h 45' 51"** **-33° 20' 32"** Close Star: **SAO-186841** (Kaus Borealis) Catalog Objects: IC-4776 Imaging Window: ***10:40 – 01:43** Transit: **12:12 | 23°**	**C-11 HD: Primary Focus** 
B-104(LDN-532) Config: |C11HD|ZWO6200MC| Type: **Dark Nebula** Constellation: **Scutum** Coordinates: **18h 47' 09"** **-04° 28' 45"** Close Star: **SAO-125122** (Altair) Catalog Objects: B-104/LDN-532 Imaging Window: ***10:00 – 02:34** Transit: **12:13 | 52°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – July 05 2024

Wild Duck Cluster(M-11/NGC-6705)

Config: |C11HD|ZWO6200MC|

Type: **Open Cluster**

Constellation: **Scutum**
Coordinates:
18h 51’ 05”
-06° 16’ 12”

Close Star: **SAO-125122** (Altair)
Catalog Objects: M-11/NGC-6705
Imaging Window: ***10:07 – 02:31**
Transit: **12:17 | 50°**

C-11 HD: Primary Focus

Ring Nebula(M-57/NGC-6720)

Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Lyra**
Coordinates:
18h 53’ 35”
33° 01’ 46”

Close Star: **SAO-67174** (Vega)
Catalog Objects: M-57/NGC-6720
Imaging Window: **09:23 – 03:43**
Transit: **12:19 | 90°**

C-11 HD: Primary Focus

M-54 (NGC-6715)

Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

Constellation: **Sagittarius**
Coordinates:
18h 55’ 03”
-30° 28’ 39”

Close Star: **SAO-187448** (Nunki)
Catalog Objects: M-54/NGC-6715
Imaging Window: ***10:22 – 02:27**
Transit: **12:21 | 26°**

C-11 HD: Primary Focus

Prospective Imaging Objects – July 05 2024

Abell 50 (NGC-6742)

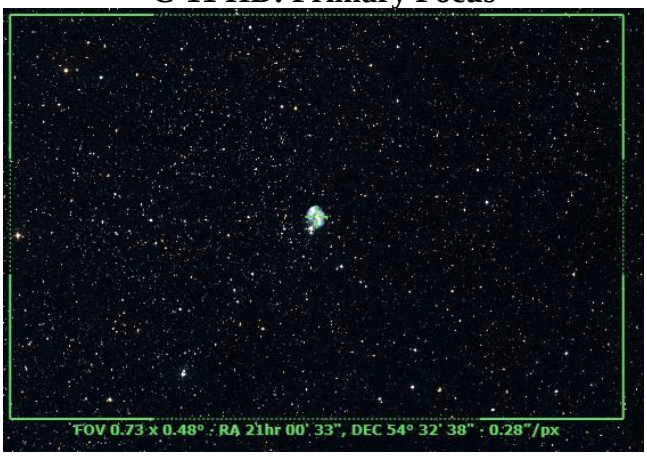
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Draco**
Coordinates:
21h 00’ 33”
54° 32’ 38”

Close Star: **SAO-046872** (Iota Her)
Catalog Objects: NGC-6742
Imaging Window: **09:23 – 03:43**
Transit: **12:25 | 87°**

C-11 HD: Primary Focus



Dandelion Puffball Nebula (NGC-6751)

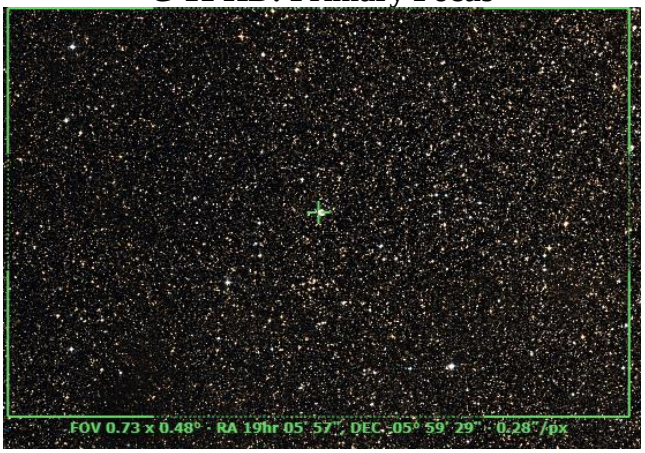
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Aquila**
Coordinates:
19h 05’ 57”
-05° 59’ 29”

Close Star: **SAO-142931** (i Aquilae)
Catalog Objects: NGC-6751
Imaging Window: ***12:25 – 02:45**
Transit: **12:32 | 51°**

C-11 HD: Primary Focus



NGC-6772 (PK 33-6.1)

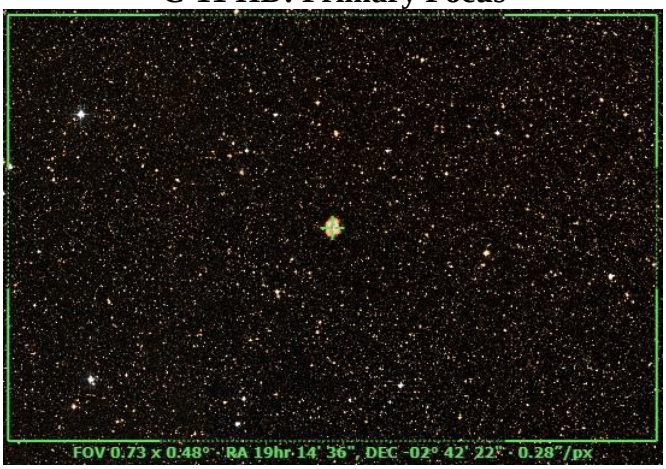
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

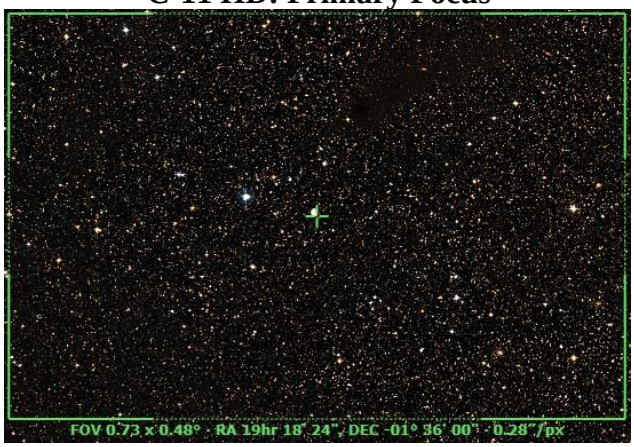
Constellation: **Aquila**
Coordinates:
19h 14’ 36”
-02° 42’ 22”

Close Star: **SAO-142931** (i Aquilae)
Catalog Objects: NGC-6772
Imaging Window: ***10:18 – 03:10**
Transit: **12:40 | 54°**

C-11 HD: Primary Focus



Prospective Imaging Objects – July 05 2024

Barnard's Black Lizard (B-138) Config: **C11-HD | HS | ZWO6200MC** Type: **Dark Nebula** Constellation: **Aquila** Coordinates: **19h 15' 59"** **00° 13' 00"** Close Star: **SAO-125122** (Altair) Catalog Objects: B-138 Imaging Window: **10:31 – 02:56** Transit: **12:40 | 58°**	**C-11 HD: HyperStar v4** 
M-56 (NGC-6779) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Constellation: **Lyra** Coordinates: **19h 16' 35"** **30° 11' 07"** Close Star: **SAO-67663** (Sulafat) Catalog Objects: M-56/NGC-6779 Imaging Window: **09:23 – 03:43** Transit: **12:42 | 87°**	**C-11 HD: Primary Focus** 
NGC-6778 (PK 34-6.1) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Aquila** Coordinates: **19h 18' 24"** **-01° 36' 00"** Close Star: **SAO-124068** (Alya) Catalog Objects: NGC-6778/PK 34-6.1 Imaging Window: **10:47 – 02:48** Transit: **12:44 | 55°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – July 05 2024

NGC-6781

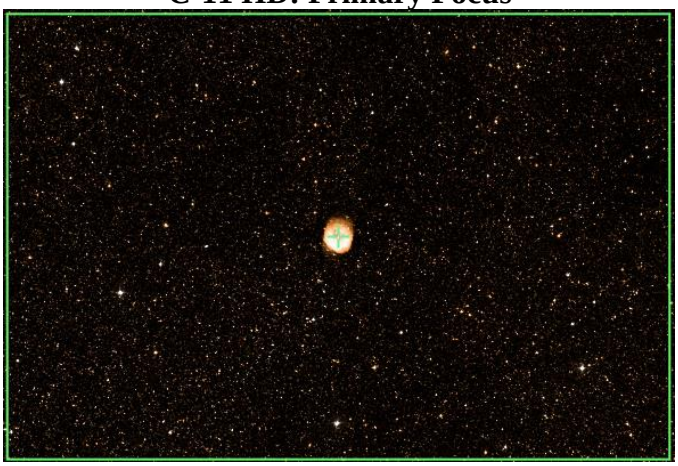
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Aquila**
Coordinates:
19h 18’ 28”
06° 32’ 25”

Close Star: **SAO-125122** (Altar)
Catalog Objects: NGC-6781/PK 41-2.1
Imaging Window: **10:12 – 03:23**
Transit: **12:44 | 63°**

C-11 HD: Primary Focus



LDN-673

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

Type: **Dark Nebula**

Constellation: **Aquila**
Coordinates:
19h 18’ 14”
11° 15’ 40”

Close Star: **SAO-125122** (Altair)
Catalog Objects: LDN-673
Imaging Window: **09:59 – 03:41**
Transit: **12:47 | 68°**

C-11 HD: HyperStar v4

Lot Ness Monster (LDN-772)

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

Type: **Dark Nebula**

Constellation: **Vulpecula**
Coordinates:
19h 26’ 46”
23° 08’ 59”

Close Star: **SAO-125122** (Altair)
Catalog Objects: LDN-772
Imaging Window: **09:23 – 03:43**
Transit: **12:51 | 80°**

C-11 HD: HyperStar v4

Prospective Imaging Objects – July 05 2024

NGC6804

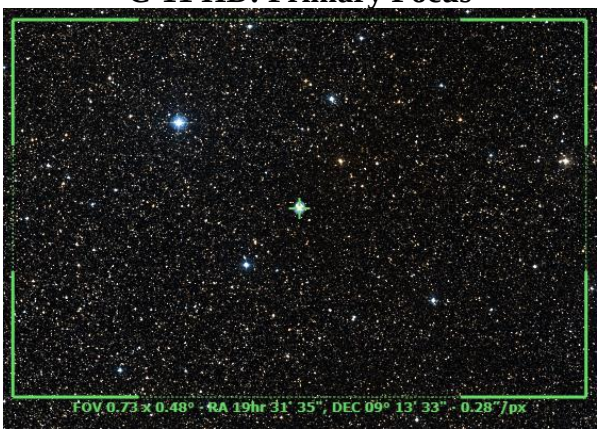
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Aquila**
Coordinates:
19h 31’ 35”
09° 13’ 33”

Close Star: **SAO-104728** (Omega Aq)
Catalog Objects: NGC-6804
Imaging Window: **10:16 – 03:43**
Transit: **12:57 | 66°**

C-11 HD: Primary Focus



M-55

Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

Constellation: **Sagittarius**
Coordinates:
19h 39’ 59”
-30° 57’ 42”

Close Star: **SAO-191524** (Formalhaut)
Catalog Objects: M-55/NGC-6809
Imaging Window: ***12:33 – 01:55**
Transit: **01:06 | 26°**

C-11 HD: Primary Focus

Barnard’s E (B-143)

Config: |C11-HD|FR|ZWO6200MC|

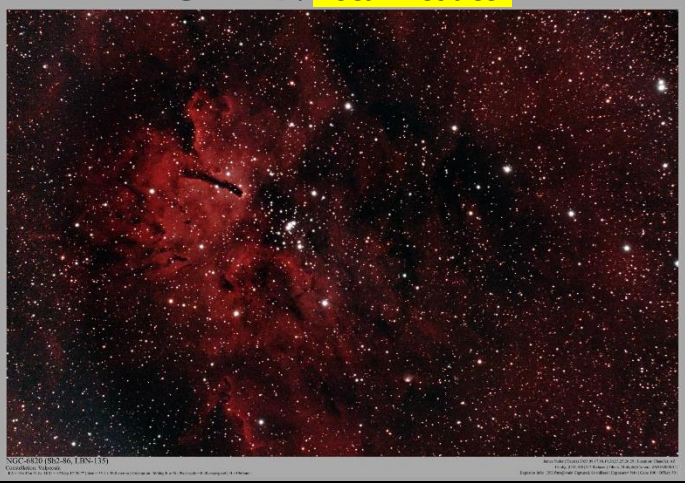
Type: **Dark Nebula**

Constellation: **Aquila**
Coordinates:
19h 40’ 47”
11° 01’ 12”

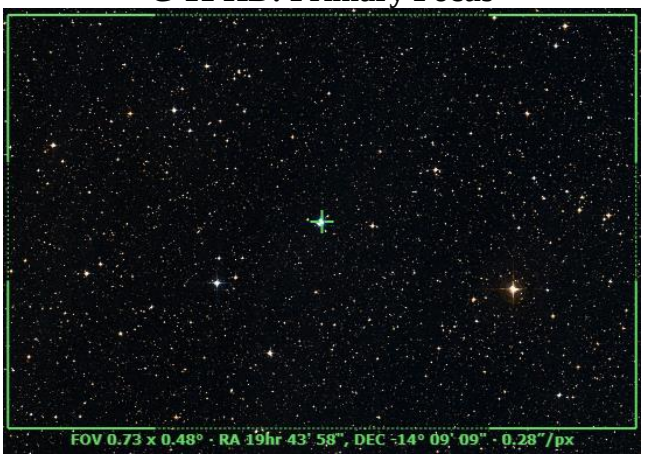
Close Star: **SAO-125122** (Altair)
Catalog Objects: B-143/LDN-694
Imaging Window: **10:19 – 03:43**
Transit: **01:06 | 67°**

C-11 HD: Focal Reducer

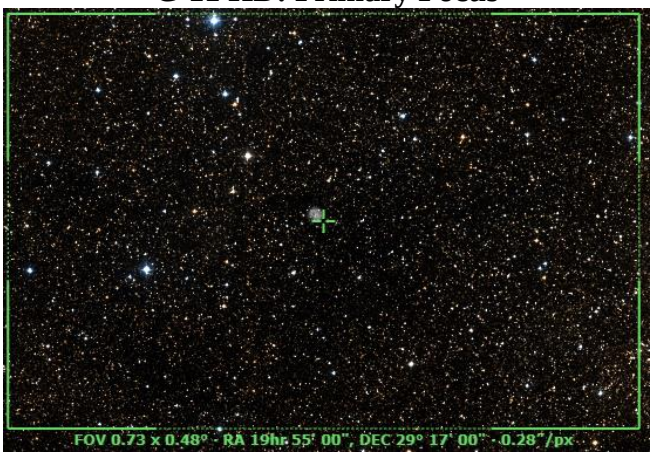
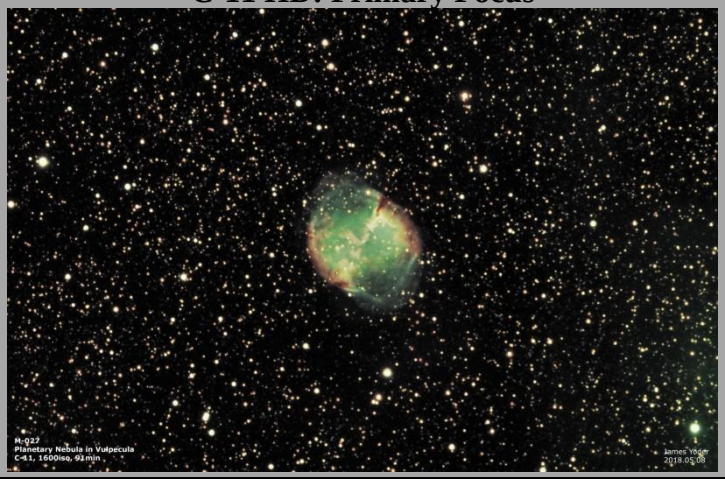
Prospective Imaging Objects – July 05 2024

NGC-6820 (LDN-772) Config: **C11-HD | HS | ZWO6200MC** Type: **Open Cluster & Nebula** Constellation: **Vulpecula** Coordinates: **19h 43' 37"** **23° 19' 29"** Close Star: **SAO-125122** (Altair) Catalog Objects: NGC-6820 Imaging Window: **09:23 – 03:43** Transit: **01:08 | 80°**	**C-11 HD: HyperStar v4** 
The Finger (NGC-6820) Config: |C11-HD|FR|ZWO6200MC| Type: **Open Cluster & Nebula** Constellation: **Vulpecula** Coordinates: **19h 42' 56"** **23° 18' 43"** Close Star: **SAO-125122** (Altair) Catalog Objects: NGC-6820 Imaging Window: **09:23 – 03:43** Transit: **01:08 | 80°**	**C-11 HD: Focal Reducer** 
The Finger (NGC-6820) Config: |C11HD|ZWO6200MC| Type: **Open Cluster & Nebula** Constellation: **Vulpecula** Coordinates: **19h 43' 01"** **23° 17' 12"** Close Star: **SAO-125122** (Altair) Catalog Objects: NGC-6820 Imaging Window: **09:23 – 03:43** Transit: **01:08 | 80°**	**C-11 HD: Primary Focus** 

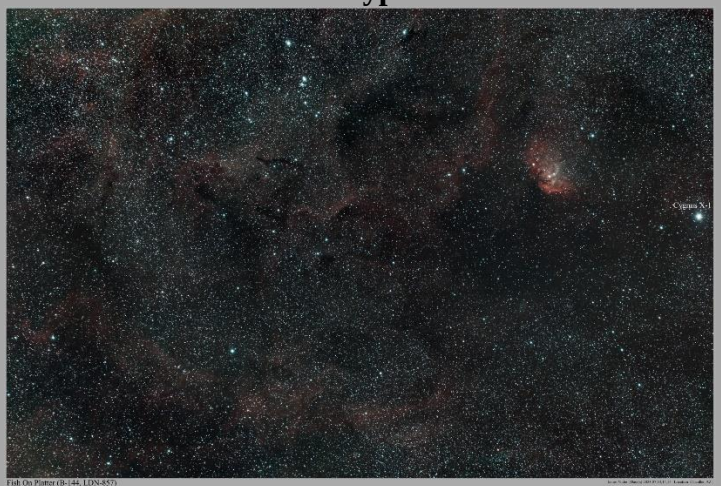
Prospective Imaging Objects – July 05 2024

Little Gem (NGC-6818) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Sagittarius** Coordinates: **19h 43' 58"** **-14° 09' 09"** Close Star: **SAO-143021** (16 Aql) Catalog Objects: NGC-6818/PK 25-17.1 Imaging Window: ***11:15 – 03:06** Transit: **01:10 | 43°**	**C-11 HD: Primary Focus** 
Blinking Planetary (NGC-6826) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Cygnus** Coordinates: **19h 44' 48"** **50° 31' 32"** Close Star: **SAO-31815** (13 Cyg) Catalog Objects: NGC-6826/NGC-6826 Imaging Window: **09:23 – 03:43** Transit: **01:11 | 73°**	**C-11 HD: Primary Focus** 
Barnard's Galaxy (NGC 6822) Config: |C11HD|ZWO6200MC| Type: **Galaxy** Constellation: **Sagittarius** Coordinates: **19h 44' 57"** **-14° 48' 23"** Close Star: **SAO-191524** (Formalhaut) Catalog Objects: NGC-6822 Imaging Window: ***10:43 – 03:43** Transit: **01:11 | 42°**	**C-11 HD: Primary Focus** 

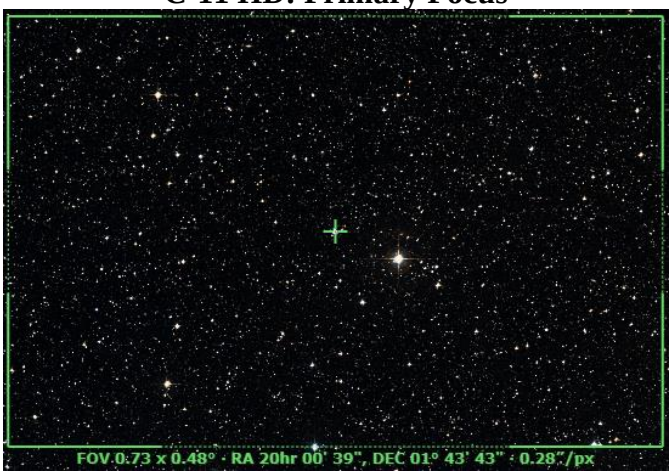
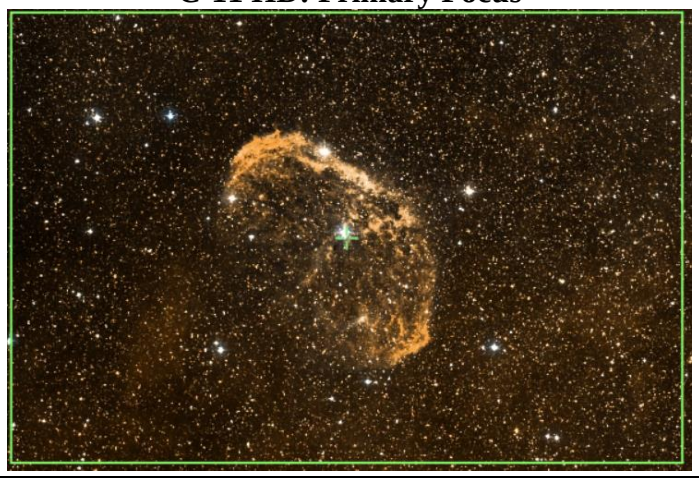
Prospective Imaging Objects – July 05 2024

M-71 (NGC-6838) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Constellation: **Sagitta** Coordinates: **19h 53' 46"** **18° 46' 43"** Close Star: **SAO-125122** (Altair) Catalog Objects: M-71/NGC-6838 Imaging Window: **10:12 – 03:43** Transit: **01:20 | 75°**	**C-11 HD: Primary Focus** 
NGC 6842 (PK 65+0.1) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Vulpecula** Coordinates: **19h 55' 00"** **29° 17' 00"** Close Star: **SAO-68637** (12 Cyg) Catalog Objects: NGC-6842/PK 65+0.1 Imaging Window: **09:53 – 03:43** Transit: **01:21 | 86°**	**C-11 HD: Primary Focus** 
Dumbbell Nebula (M-27, NGC-6853) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Vulpecula** Coordinates: **19h 59' 36"** **22° 43' 17"** Close Star: **SAO-125122** (Altair) Catalog Objects: M-27/NGC-6853 Imaging Window: **10:09 – 03:43** Transit: **01:25 | 79°**	**C-11 HD: Primary Focus** 

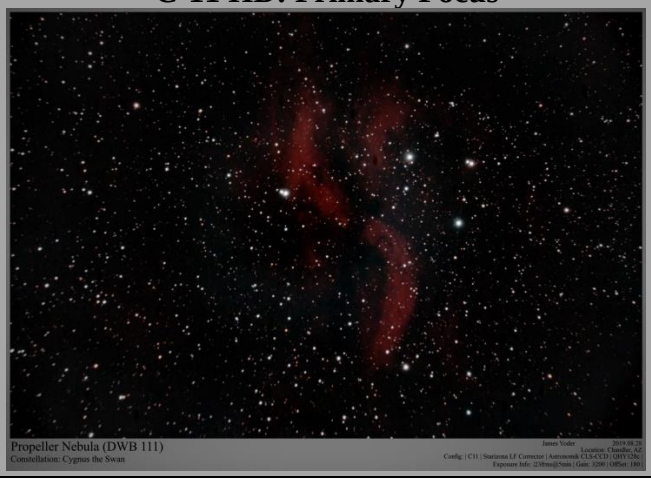
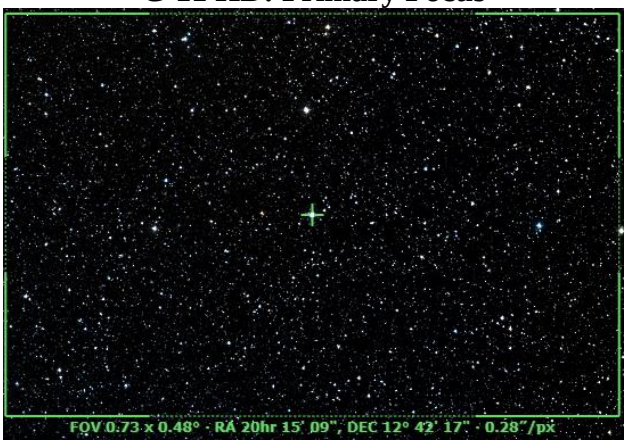
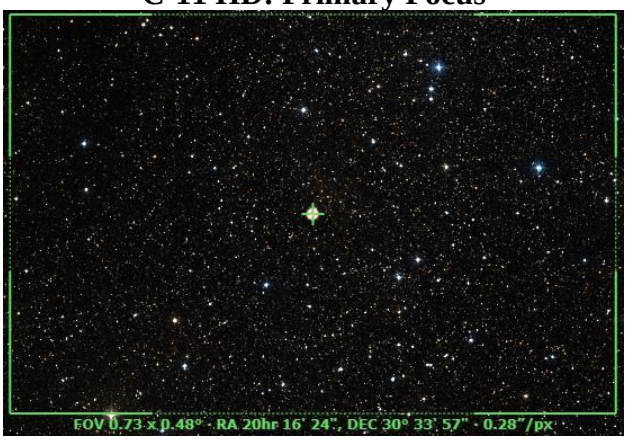
Prospective Imaging Objects – July 05 2024

Fish on the Platter (B-144) Config: **C11-HD | HS | ZWO6200MC** Type: **Dark Nebula** Constellation: **Cygnus** Coordinates: **20h 02' 28"** **34° 57' 42"** Close Star: **SAO-125122** (Altair) Catalog Objects: B-144, SH2-101 Imaging Window: **09:47 – 03:43** Transit: **01:24 | 89°**	**C-11 HD: HyperStar v4** 
Tulip Nebula (SH2-101) Config: |C11-HD|FR|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Cygnus** Coordinates: **20h 00' 58"** **35° 16' 30"** Close Star: **SAO-125122** (Altair) Catalog Objects: SH2-101 Imaging Window: **09:47 – 03:43** Transit: **01:24 | 89°**	**C-11 HD: Focal Reducer** 
Tulip Nebula (SH2-101) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Cygnus** Coordinates: **20h 00' 57"** **35° 20' 11"** Close Star: **SAO-125122** (Altair) Catalog Objects: B-144 Imaging Window: **09:47 – 03:43** Transit: **01:24 | 89°**	**C-11 HD: Primary Focus** 

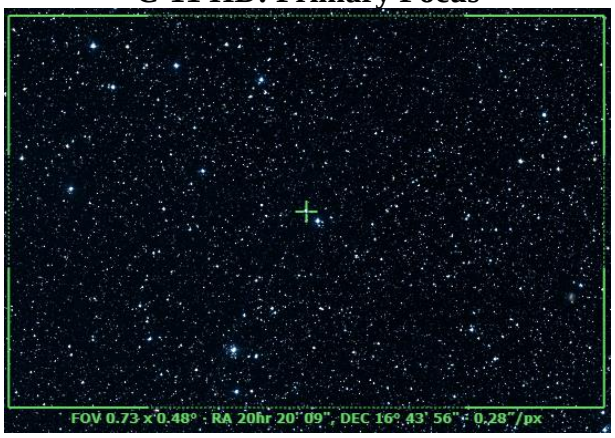
Prospective Imaging Objects – July 05 2024

NGC-6852 (PK 42-14.1) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Aquila** Coordinates: **20h 00' 39"** **01° 43' 43"** Close Star: **SAO-144150** (65 Aql) Catalog Objects: NGC-6852/PK 42-14.1 Imaging Window: **11:13 – 03:43** Transit: **01:26 | 58°**	**C-11 HD: Primary Focus** 
M-75 (NGC-6864) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Constellation: **Sagittarius** Coordinates: **20h 06' 05"** **-21° 55' 15"** Close Star: **SAO-191524** (Formalhaut) Catalog Objects: M-75/NGC-6864 Imaging Window: ***12:00 – 03:15** Transit: **01:32 | 35°**	**C-11 HD: Primary Focus** 
Crescent Nebula (NGC-6888) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Cygnus** Coordinates: **20h 12' 06"** **38° 21' 00"** Close Star: **SAO-125122** (Altair) Catalog Objects: NGC-6888/Sh2-105 Imaging Window: **09:58 – 03:43** Transit: **01:38 | 85°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – July 05 2024

Propeller Nebula (DWB-111) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Cygnus** Coordinates: **20h 16' 09"** **43° 41' 47"** Close Ref Object: LDN 891 Close Star: **SAO-048796** (Al Fawaris) Catalog Objects: Simeis-57/DWB-111 Imaging Window: **09:56 – 03:43** Transit: **01:39 | 79°**	**C-11 HD: Primary Focus** 
NGC 6891 (PK 54-12.1) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Delphinus** Coordinates: **20h 15' 09"** **12° 42' 17"** Close Star: **SAO-106230** (2 Del) Catalog Objects: NGC-6991 Imaging Window: **10:49 – 03:43** Transit: **01:41 | 77°**	**C-11 HD: Primary Focus** 
Little Ring Nebula (NGC-6894) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Cygnus** Coordinates: **20h 16' 24"** **30° 33' 57"** Close Star: **SAO-71070** (64 Cyg) Catalog Objects: NGC-6994 Imaging Window: **10:12 – 03:43** Transit: **01:42 | 87°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – July 05 2024

IC-4997 (PK 58-10.1) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Sagitta** Coordinates: **20h 20’ 09”** **16° 43’ 56”** Close Star: **SAO-106316** (Rotanev) Catalog Objects: IC-4997 Imaging Window: **10:43 – 03:43** Transit: **01:46 | 87°**	**C-11 HD: Primary Focus** 
Blue Flash Nebula (NGC-6905) Config: |C11HD|ZWO6200MC| Type: **Bright Nebula** Constellation: **Delphinus** Coordinates: **20h 22’ 24”** **20° 06’ 18”** Close Star: **SAO-108378** (Markab) Catalog Objects: NGC-6905 Imaging Window: **10:37 – 03:43** Transit: **01:48 | 77°**	**C-11 HD: Primary Focus** 
M-29 (NGC-6913) Config: |C11HD|ZWO6200MC| Type: **Open Cluster** Constellation: **Cygnus** Coordinates: **20h 24’ 06”** **38° 29’ 36”** Close Star: **SAO-90981** (Scheat) Catalog Objects: M-29/NGC-6913 Imaging Window: **10:09 – 03:43** Transit: **01:49 | 85°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – July 05 2024

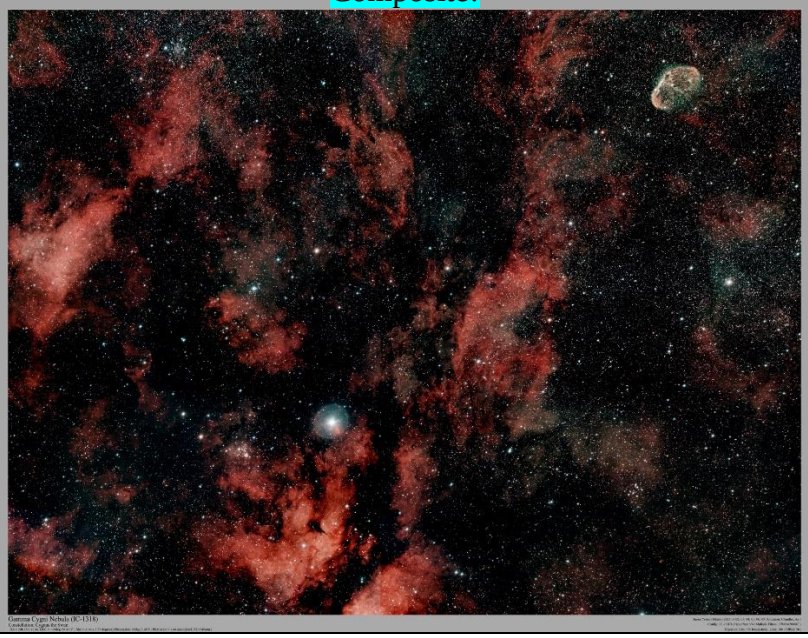
Gamma Cygni Nebula (IC-1318 A&B)
Config: **C11-HD | HS | ZWO6200MC**

Type: **Bright Nebula**

Constellation: **Cygnus**
Coordinates:
Frame 1:
RA=20hr 18’ 27” DEC=41°12’10”
Frame 2:
RA=20hr 18’ 38” DEC=38°55’33”

Close Star: **SAO-49941** (Deneb)
Catalog Objects: IC-1318
Imaging Window: **09:59 – 03:43**
Transit: **01:42 | 81°**

C-11 HD: HyperStar v4
Composite!



IC-1318A

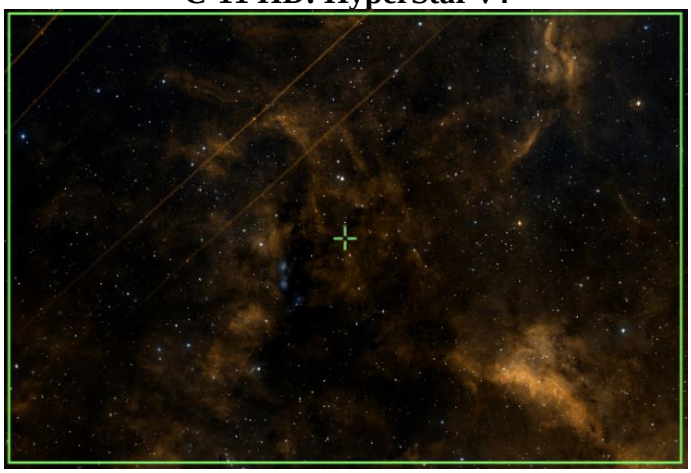
Config: **C11-HD | HS | ZWO6200MC**

Type: **Bright Nebula**

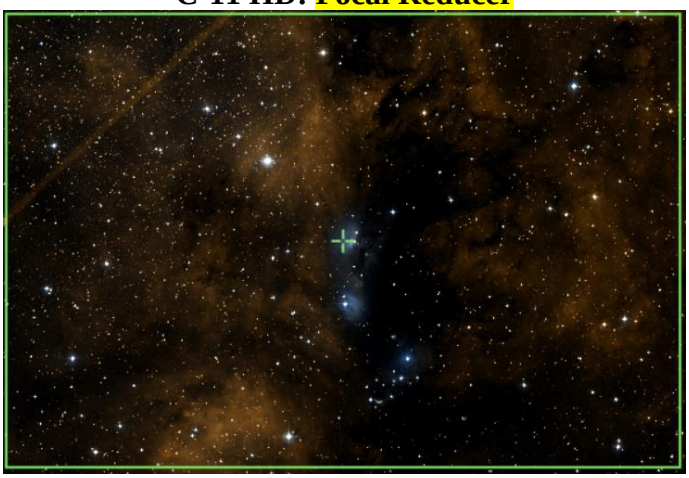
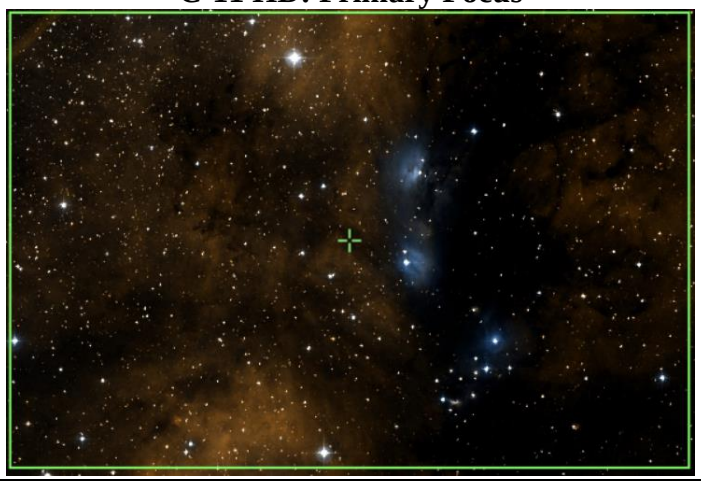
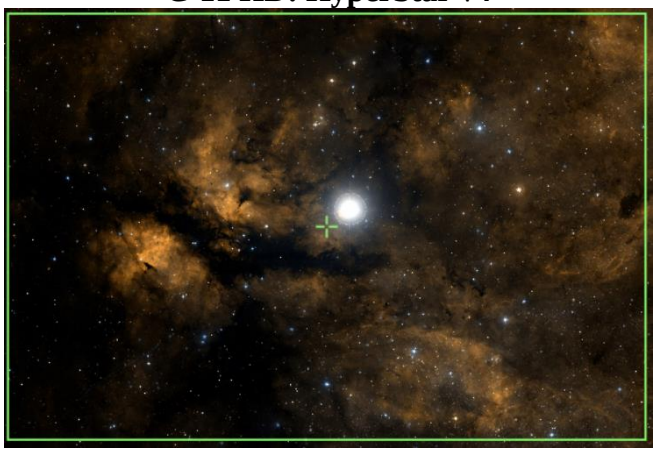
Constellation: **Cygnus**
Coordinates:
20h 22’ 52”
42° 38’ 53”

Close Star: **SAO-49941** (Deneb)
Catalog Objects: IC-1318A
Imaging Window: **09:59 – 03:43**
Transit: **01:43 | 81°**

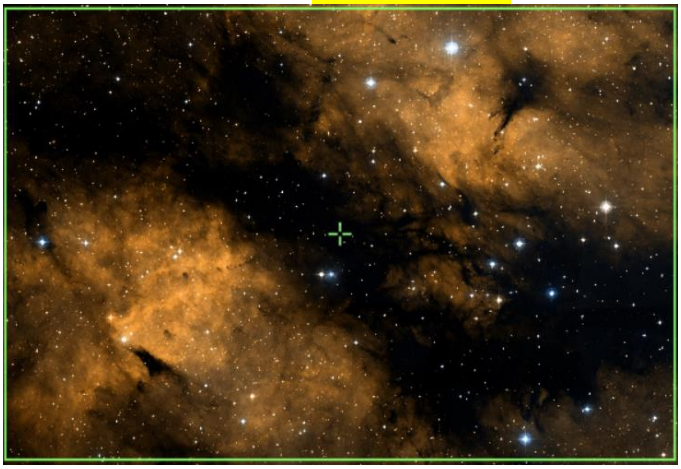
C-11 HD: HyperStar v4



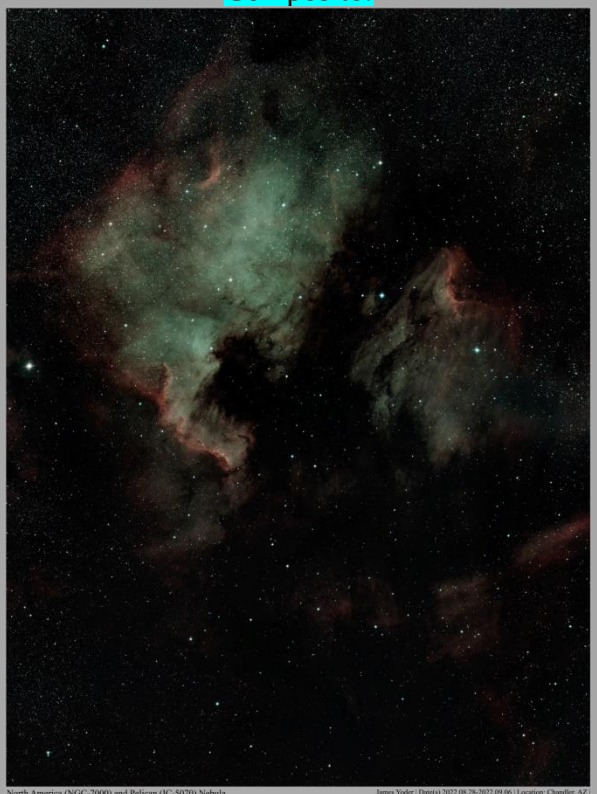
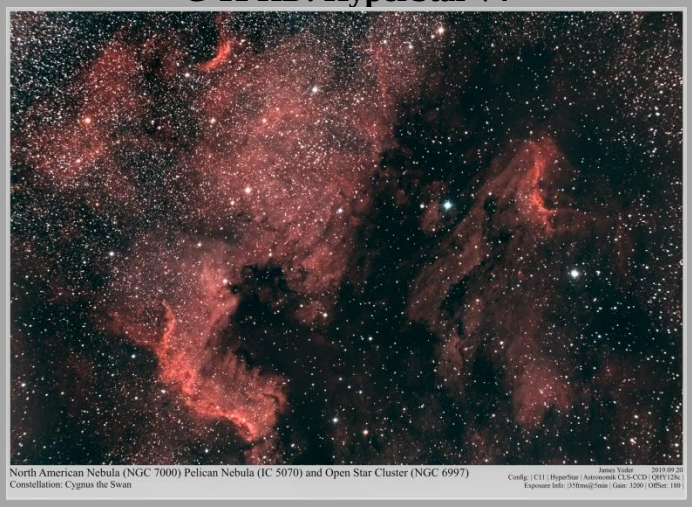
Prospective Imaging Objects – July 05 2024

IC-1318 Region-1 Config: |C11-HD|FR|ZWO6200MC| Type: **Bright Nebula** Constellation: **Cygnus** Coordinates: **20h 24' 48"** **42° 29' 00"** Close Star: **SAO-49941** (Deneb) Catalog Objects: NGC-6914 Imaging Window: **10:07 – 03:43** Transit: **01:51 | 81°**	**C-11 HD: Focal Reducer** 
IC-1318 Region-1 Config: |C11HD|ZWO6200MC| Type: **Bright Nebula** Constellation: **Cygnus** Coordinates: **20h 25' 07"** **42° 24' 34"** Close Star: **SAO-49941** (Deneb) Catalog Objects: NGC-6914 Imaging Window: **10:07 – 03:43** Transit: **01:51 | 81°**	**C-11 HD: Primary Focus** 
IC-1318B Config: **C11-HD | HS | ZWO6200MC** Type: **Bright Nebula** Constellation: **Cygnus** Coordinates: **20h 22' 57"** **40° 09' 33"** Close Star: **SAO-67174** (Vega) Catalog Objects: IC-1318B Imaging Window: **10:12 – 03:43** Transit: **01:54 | 80°**	**C-11 HD: HyperStar v4** 

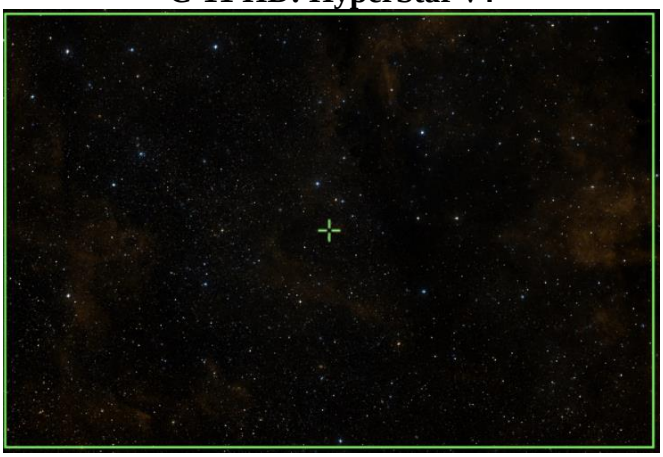
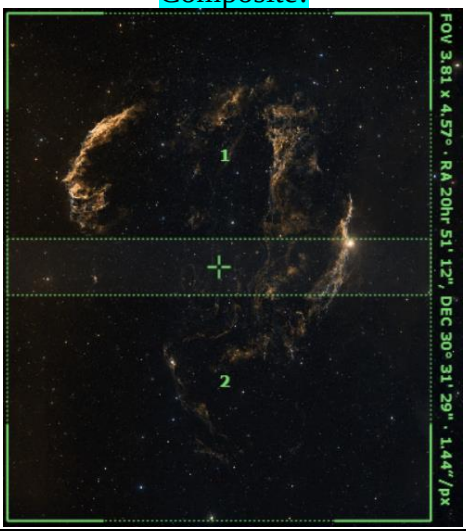
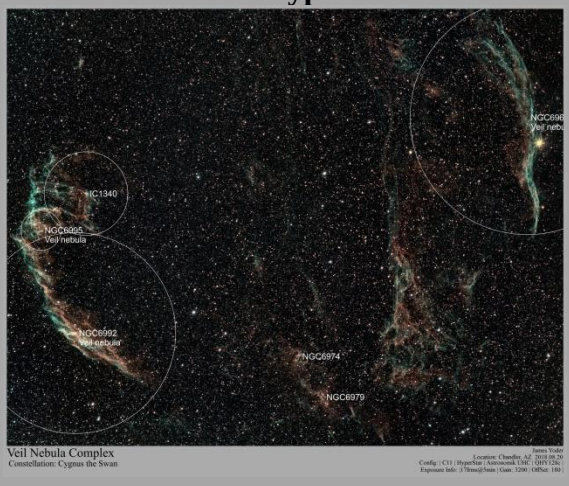
Prospective Imaging Objects – July 05 2024

IC-1318B Config: |C11-HD|FR|ZWO6200MC| Type: **Bright Nebula** Constellation: **Cygnus** Coordinates: **20h 26' 59"** **40° 06' 52"** Close Star: **SAO-67174** (Vega) Catalog Objects: IC-1318B Imaging Window: **10:12 – 03:43** Transit: **01:54 | 80°**	**C-11 HD: Focal Reducer** 
IC-1318B Config: |C11HD|ZWO6200MC| Type: **Bright Nebula** Constellation: **Cygnus** Coordinates: **20h 25' 40"** **40° 17' 34"** Close Star: **SAO-67174** (Vega) Catalog Objects: IC-1318B Imaging Window: **10:12 – 03:43** Transit: **01:54 | 80°**	**C-11 HD: Primary Focus** 
Fireworks Galaxy(NGC-6946) Config: |C11HD|ZWO6200MC| Type: **Galaxy** Constellation: **Cepheus** Coordinates: **20° 34' 54"** **60° 08' 60"** Close Star: **SAO-19302** (Alderamin) Catalog Objects: NGC-6946 Imaging Window:**10:19 – 03:43** Transit: **02:01 | 63°**	**C-11 HD: Primary Focus** 

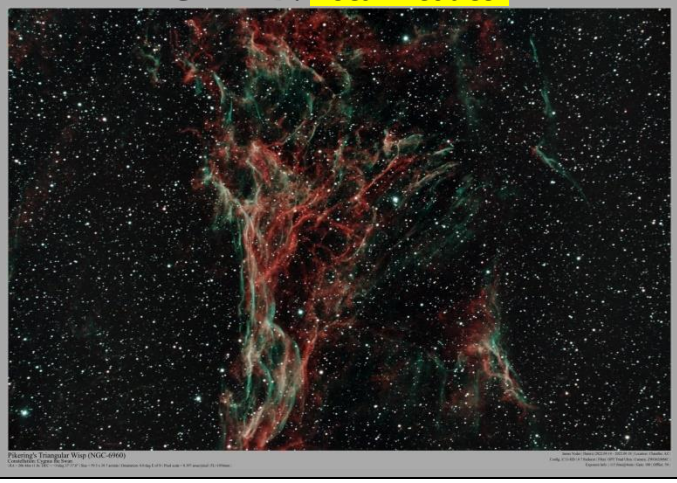
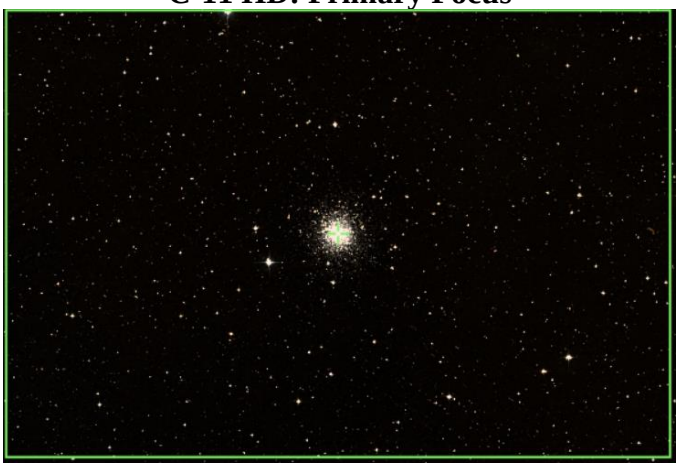
Prospective Imaging Objects – July 05 2024

Pelican & N. America Nebula (IC-5070) Config: **C11-HD | HS | ZWO6200MC** Type: **Bright Nebula** Constellation: **Cygnus** Coordinates: Frame 1: RA=20hr56’10” DEC=44°55’07” Frame 2: RA=20hr56’10” DEC=42°37’57” Close Star: **SAO-50180** (57 Cygni) Catalog Objects: IC5070 Imaging Window: **10:32 – 03:43** Transit: **02:17 | 79°**	**C-11 HD: HyperStar v4** Composite! 
Pelican & N. America Nebula (IC-5070) Config: **C11-HD | HS | ZWO6200MC** Type: **Bright Nebula** Constellation: **Cygnus** Coordinates: **20h 57’ 29”** **44° 10’ 10”** Close Star: **SAO-50180** (57 Cygni) Catalog Objects: IC5070 Imaging Window: **10:32 – 03:43** Transit: **02:17 | 79°**	**C-11 HD: HyperStar v4** 

Prospective Imaging Objects – July 05 2024

Northern Coal Sack (LDN-904) Config: **C11-HD | HS | ZWO6200MC** Type: **Dark Nebula** Constellation: **Cygnus** Coordinates: **20h 51' 52"** **39° 13' 34"** Close Star: **SAO-49941** (Deneb) Catalog Objects: LDN-904 Imaging Window: **10:38 – 03:43** Transit: **02:18 | 84°**	**C-11 HD: HyperStar v4** 
Veil Nebula (NGC-6960) Config: **C11-HD | HS | ZWO6200MC** Type: **Bright Nebula** Constellation: **Cygnus** Coordinates: **P1:** RA: 20h51'12" DEC: 31°32'26" **P2:** RA: 20h51'12" DEC: 29°30'31" Close Star: **SAO-70467** (52 Cygni) Catalog Objects: NGC-6960, 6992, 6995 Imaging Window: **10:48 – 03:43** Transit: **02:19 | 80°**	**C-11 HD: HyperStar v4** Composite! 
Veil Nebula (NGC-6960) Config: **C11-HD | HS | ZWO6200MC** Type: **Supernova Remnant** Constellation: **Cygnus** Coordinates: **20h 51' 15"** **31° 03' 60"** Close Star: **SAO-70467** (52 Cygni) Catalog Objects: NGC-6960, 6992, 6995 Imaging Window: **10:48 – 03:43** Transit: **02:19 | 80°**	**C-11 HD: HyperStar v4** 

Prospective Imaging Objects – July 05 2024

Witch's Broom (NGC-6960) Config: |C11-HD|FR|ZWO6200MC| Type: **Bright Nebula** Constellation: **Cygnus** Coordinates: **P1**: RA=20hr 46' 20" DEC=30° 54' 54" **P2**: RA=20hr 46' 20" DEC=30° 17' 06" Close Star: **SAO-70467** (52 Cygni) Catalog Objects: NGC-6960 Imaging Window: **10:48 – 03:43** Transit: **02:19 | 80°**	**C-11 HD: Focal Reducer** Composite! 
Pickering's Triangular Wisp Config: |C11-HD|FR|ZWO6200MC| Type: **Supernova Remnant** Constellation: **Cygnus** Coordinates: **20h 48' 16"** **31° 37' 17"** Close Star: **SAO-70467** (52 Cygni) Catalog Objects: NGC-6960 Imaging Window: **10:48 – 03:43** Transit: **02:19 | 80°**	**C-11 HD: Focal Reducer** 
M-72 (NGC-6981) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Constellation: **Aquarius** Coordinates: **20h 53' 28"** **-12° 32' 11"** Close Star: **SAO-108378** (Markab) Catalog Objects: M-72/NGC-6981 Imaging Window: ***12:12 – 03:43** Transit: **02:19 | 44°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – July 05 2024

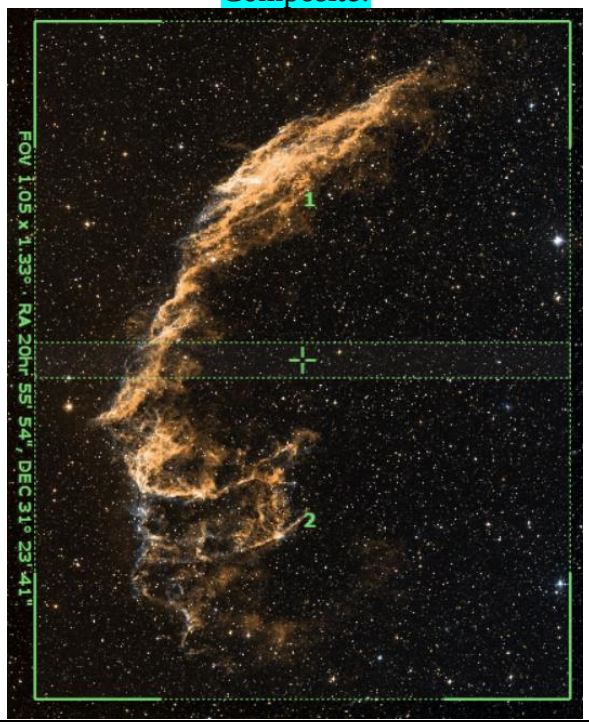
Network Nebula (NGC-6992)
Config: |C11-HD|FR|ZWO6200MC|

Type: **Supernova Remnant**

Constellation: **Cygnus**
Coordinates:
P1: RA= 20hr 55’ 54” DEC= 31° 42’ 35”
P2: RA= 20hr 55’ 54” DEC= 31° 04’ 47”

Close Star: **SAO-70474** (Gienah)
Catalog Objects: NGC-6992
Imaging Window: **10:50 – 03:43**
Transit: **02:22 | 88°**

C-11 HD: Focal Reducer
Composite!



M-73 (NGC-6994)
Config: |C11HD|ZWO6200MC|

Type: **Open Cluster**

Constellation: **Aquarius**
Coordinates:
20h 59’ 00”
-12° 37’ 60”

Close Star: **SAO-108378** (Markab)
Catalog Objects: M-73/NGC-6994
Imaging Window: ***12:22 – 03:43**
Transit: **02:25 | 44°**

C-11 HD: Primary Focus

Prospective Imaging Objects – July 05 2024

Fetus Nebula (NGC-7008)
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Cygnus**
Coordinates:
21h 00’ 33”
54° 32’ 38”

Close Star: **SAO-49941** (Deneb)
Catalog Objects: NGC-7008
Imaging Window: **10:40 – 03:43**
Transit: **02:26 | 69°**

C-11 HD: Primary Focus

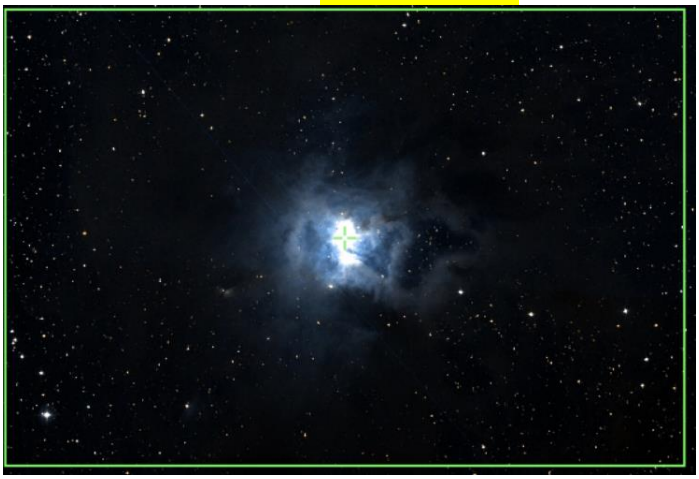
Iris Nebula (NGC 7023)
Config: |C11-HD|FR|ZWO6200MC|

Type: **Bright Nebula**

Constellation: **Cepheus**
Coordinates:
21h 01’ 36”
68° 10’ 00”

Close Star: **SAO-19302** (Alderamin)
Catalog Objects: NGC-7023
Imaging Window: **11:09 – 03:43**
Transit: **02:27 | 55°**

C-11 HD: Focal Reducer



Iris Nebula (NGC 7023)
Config: |C11HD|ZWO6200MC|

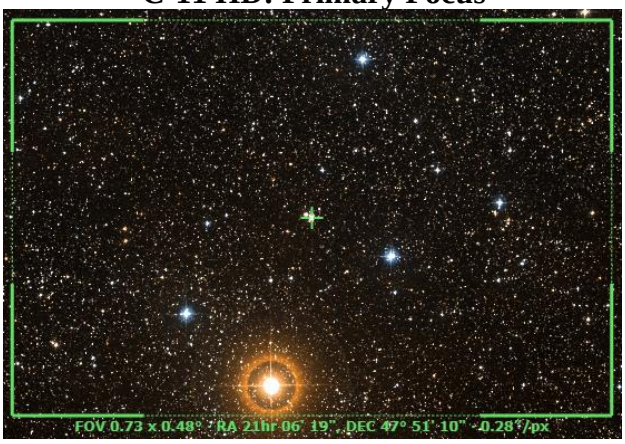
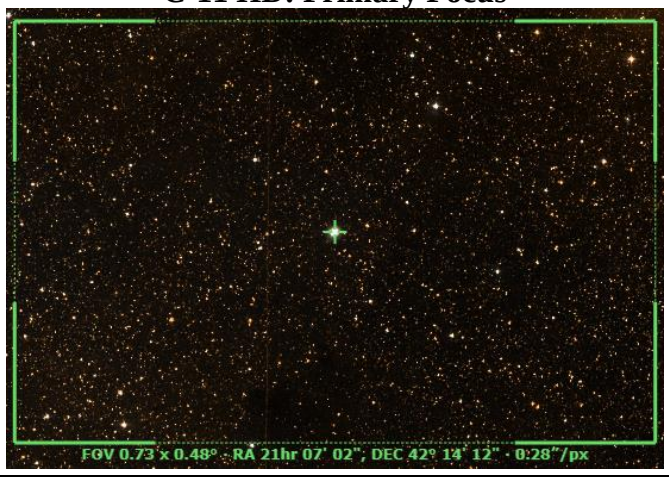
Type: **Bright Nebula**

Constellation: **Cepheus**
Coordinates:
21h 01’ 36”
68° 10’ 00”

Close Star: **SAO-19302** (Alderamin)
Catalog Objects: NGC-7023
Imaging Window: **11:09 – 03:43**
Transit: **02:27 | 55°**

C-11 HD: Primary Focus

Prospective Imaging Objects – July 05 2024

Saturn Nebula (NGC-7009) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Aquarius** Coordinates: **21h 04' 11"** **-11° 21' 47"** Close Star: **SAO-191524** (Fomalhaut) Catalog Objects: NGC-7009 Imaging Window: **02:11 – 03:43** Transit: **02:56 | 45°**	**C-11 HD: Primary Focus** 
NGC-7026 Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Cygnus** Coordinates: **21h 06' 19"** **47° 51' 10"** Close Star: **SAO-50456** Catalog Objects: NGC-7026 Imaging Window: **10:45 – 03:43** Transit: **02:32 | 45°**	**C-11 HD: Primary Focus** 
NGC-7027 Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Cygnus** Coordinates: **21h 07' 02"** **42° 14' 12"** Close Star: **SAO-50456** Catalog Objects: NGC-7027 Imaging Window: **10:49 – 03:43** Transit: **02:33 | 45°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – July 05 2024

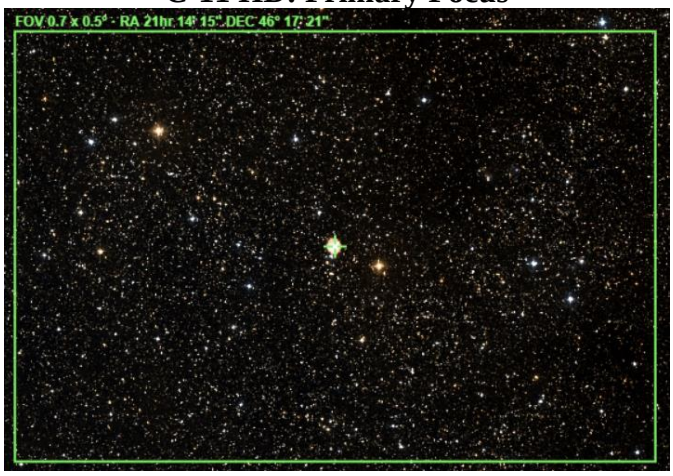
NGC-7048 (PK 88-1.1)
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Cygnus**
Coordinates:
21h 14’ 15”
46° 17’ 21”

Close Star: **SAO-49941** (Deneb)
Catalog Objects: NGC-7048
Imaging Window: **10:54 – 03:43**
Transit: **02:40 | 77°**

C-11 HD: Primary Focus



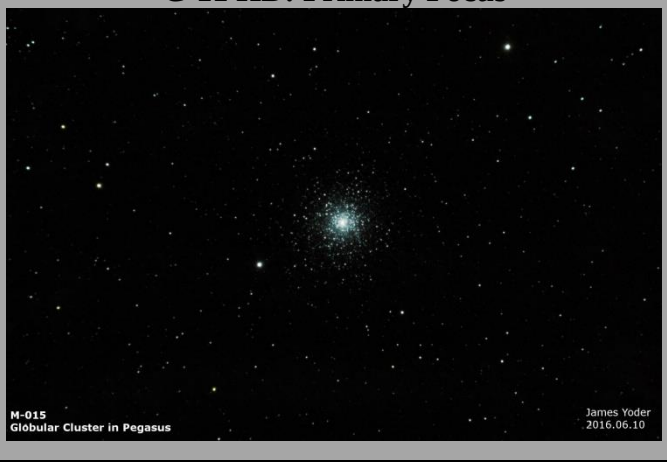
Pegasus Cluster (M-15)
Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

Constellation: **Pegasus**
Coordinates:
21h 29’ 58”
12° 10’ 03”

Close Star: **SAO-127029** (Enif)
Catalog Objects: M-15/NGC-7078
Imaging Window: **12:05 – 03:43**
Transit: **02:55 | 69°**

C-11 HD: Primary Focus



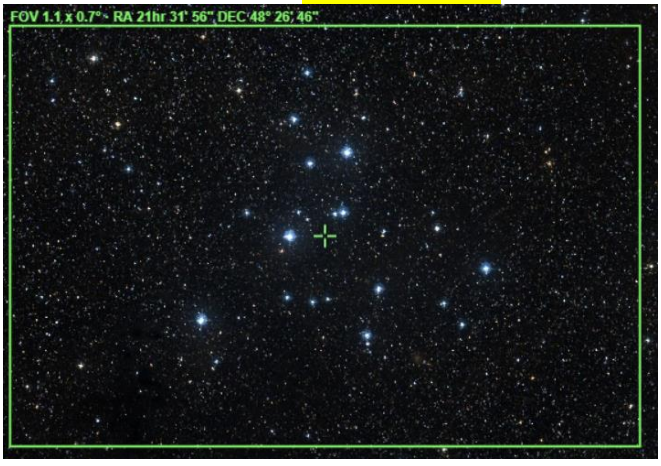
M-39 (NGC-7092)
Config: |C11-HD|FR|ZWO6200MC|

Type: **Open Cluster**

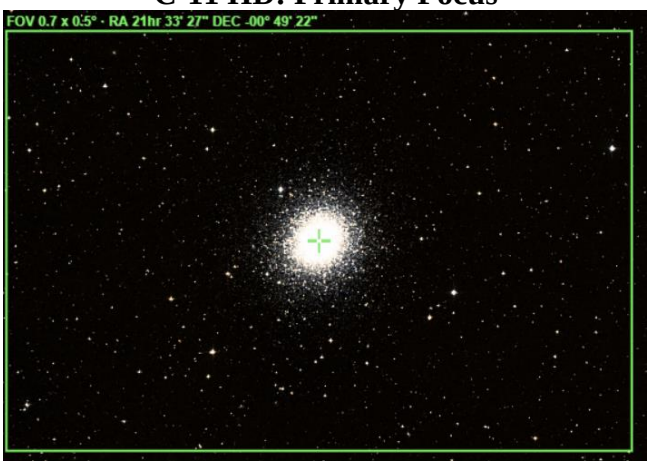
Constellation: **Cygnus**
Coordinates:
21h 31’ 56”
48° 26’ 46”

Close Star: **SAO-49941** (Deneb)
Catalog Objects: M-39/NGC-7092
Imaging Window: **11:10 – 03:43**
Transit: **02:57 | 75°**

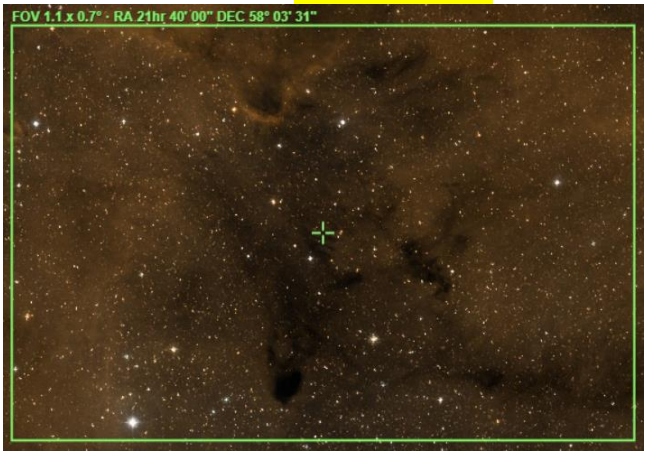
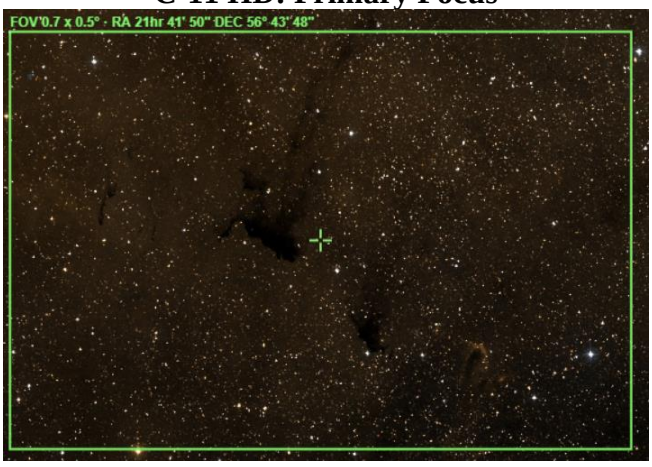
C-11 HD: Focal Reducer



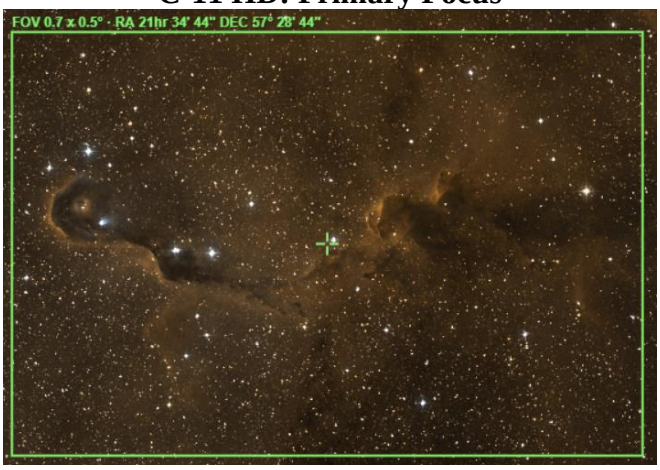
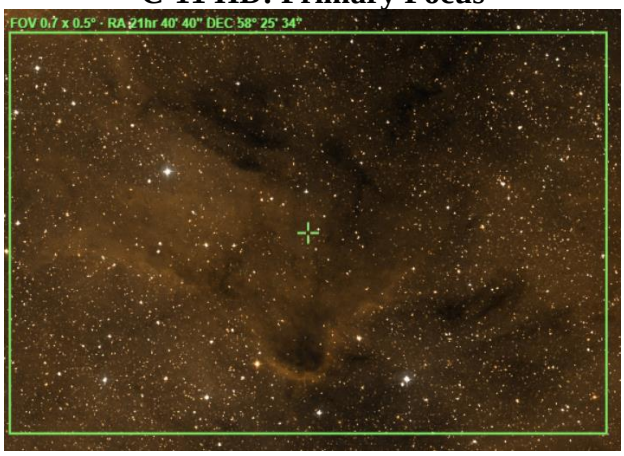
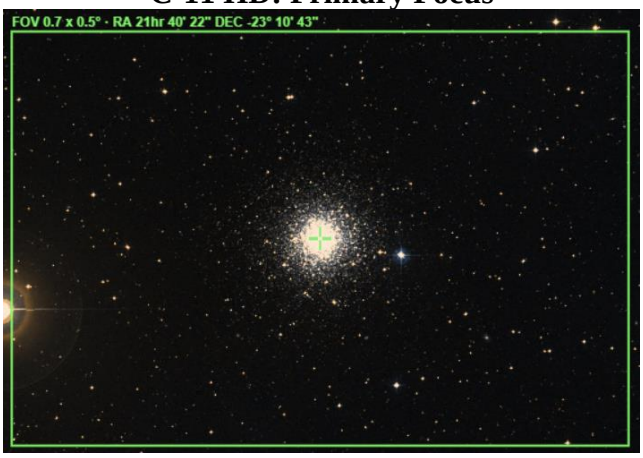
Prospective Imaging Objects – July 05 2024

M-2 (NGC-7089) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Constellation: **Aquarius** Coordinates: **21h 33’ 27”** **00° 49’ 22”** Close Star: **SAO-127029** (Enif) Catalog Objects: M-2/NGC-7089 Imaging Window: **12:58 – 03:43** Transit: **02:59 | 56°**	**C-11 HD: Primary Focus** 
NGC-7094 Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Pegasus** Coordinates: **21h 36’ 53”** **12° 47’ 22”** Close Star: **SAO-127029** (Enif) Catalog Objects: NGC-7094 Imaging Window: **12:10 – 03:43** Transit: **03:02 | 69°**	**C-11 HD: Primary Focus** 
Elephant Trunk (IC-1396) Config: **C11-HD | HS | ZWO6200MC** Type: **Bright Nebula** Constellation: **Cepheus** Coordinates: **21h 39’ 58”** **57° 33’ 34”** Close Star: **SAO-19302** (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: **11:20 – 03:43** Transit: **03:04 | 66°**	**C-11 HD: HyperStar v4** 

Prospective Imaging Objects – July 05 2024

Elephant Trunk (IC-1396) Config: |C11-HD|FR|ZWO6200MC| Type: **Bright & Dark Nebula** Constellation: **Cepheus** Coordinates: **21h 40' 00"** **58° 03' 31"** Close Star: **SAO-19302** (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: **11:20 – 03:43** Transit: **03:04 | 66°**	**C-11 HD: Focal Reducer** 
Elephant Trunk (IC-1396) Config: |C11-HD|FR|ZWO6200MC| Type: **Bright Nebula** Constellation: **Cepheus** Coordinates: **21h 34' 39"** **57° 29' 02"** Close Star: **SAO-19302** (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: **11:20 – 03:43** Transit: **03:04 | 66°**	**C-11 HD: Focal Reducer** 
Elephant Trunk (IC-1396) Config: |C11HD|ZWO6200MC| Type: **Bright & Dark Nebula** Constellation: **Cepheus** Coordinates: **21h 41' 50"** **56° 43' 48"** Close Star: **SAO-19302** (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: **11:20 – 03:43** Transit: **03:04 | 66°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – July 05 2024

Elephant Trunk (IC-1396) Config: |C11HD|ZWO6200MC| Type: **Bright & Dark Nebula** Constellation: **Cepheus** Coordinates: **21h 34’ 44”** **57° 28’ 44”** Close Star: **SAO-19302** (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: **11:20 – 03:43** Transit: **03:04 | 66°**	**C-11 HD: Primary Focus** 
Elephant Trunk (IC-1396) Config: |C11HD|ZWO6200MC| Type: **Bright & Dark Nebula** Constellation: **Cepheus** Coordinates: **21h 40’ 40”** **58° 25’ 34”** Close Star: **SAO-19302** (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: **11:20 – 03:43** Transit: **03:04 | 66°**	**C-11 HD: Primary Focus** 
M-30 (NGC-7099) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Constellation: **Capricornus** Coordinates: **21h 40’ 22”** **-23° 10’ 43”** Close Star: **SAO-164644** (Scheddi) Catalog Objects: M-30/NGC-7099 Imaging Window: ***12:58 – 03:43** Transit: **03:06 | 34°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – July 05 2024

NGC 7139
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Cepheus**
Coordinates:
21h 46’ 07”
+63° 47’ 54”

Close Star: **SAO-019302** (Alderamin)
Catalog Objects: NGC-7139
Imaging Window: **11:38 – 03:43**
Transit: **03:12 | 60°**

C-11 HD: Primary Focus

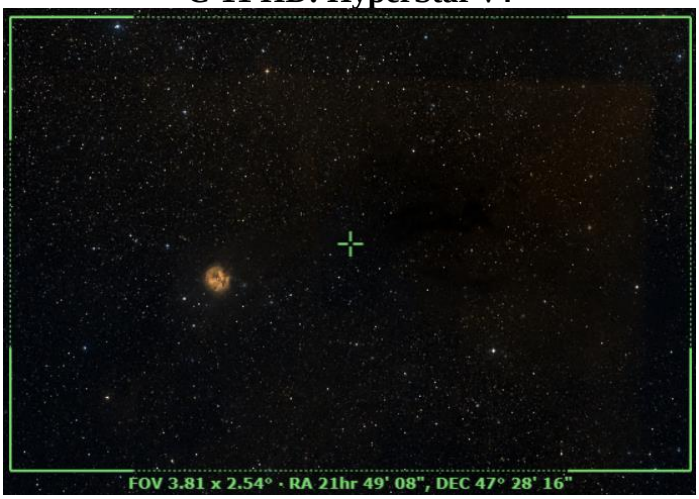
Dark Cocoon (B-168, IC 5146)
Config: **C11-HD | HS | ZWO6200MC**

Type: **Bright & Dark Nebula**

Constellation: **Cygnus**
Coordinates:
21h 49’ 08”
47° 28’ 16”

Close Star: **SAO-5105** (Rho Cygni)
Catalog Objects: B-168, IC-5146
Imaging Window: **11:33 – 03:43**
Transit: **03:19 | 76°**

C-11 HD: HyperStar v4



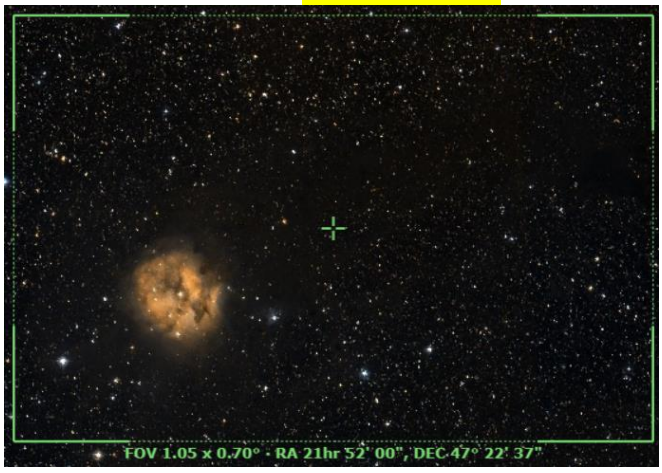
Cocoon Nebula (IC-5146)
Config: |C11-HD|FR|ZWO6200MC|

Type: **Bright Nebula**

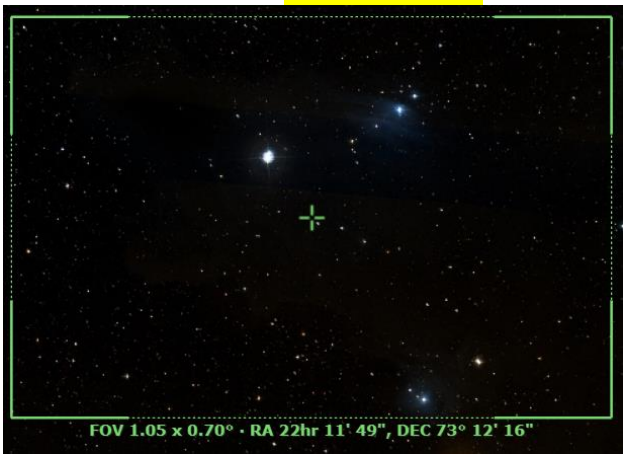
Constellation: **Cygnus**
Coordinates:
21h 52’ 00”
47° 22’ 37”

Close Star: **SAO-5105** (Rho Cygni)
Catalog Objects: IC-5146
Imaging Window: **11:33 – 03:43**
Transit: **03:19 | 76°**

C-11 HD: Focal Reducer



Prospective Imaging Objects – July 05 2024

Cocoon Nebula (IC-5146) Config: |C11HD|ZWO6200MC| Type: **Bright Nebula** Constellation: **Cygnus** Coordinates: **21h 53' 24"** **47° 16' 00"** Close Star: **SAO-5105** (Rho Cygni) Catalog Objects: IC-5146 Imaging Window: **11:33 – 03:43** Transit: **03:19 | 76°**	**C-11 HD: Primary Focus** 
Dark Shark (LDN 1235) Config: |C11-HD|FR|ZWO6200MC| Type: **Bright & Dark Nebula** Constellation: **Cepheus** Coordinates: **22h 11' 49"** **73° 12' 16"** Close Star: **SAO-20268** (Iota Cephei) Catalog Objects: LDN-1235 Imaging Window: **01:01 – 03:43** Transit: **03:40 | 50°**	**C-11 HD: Focal Reducer** 

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Page

Prospective Imaging Objects – July 05 2024

Imaging Summary July 05, 2024

Astronomical Dusk = 09:23 Astronomical Dawn = 03:43

HyperStar: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Nebula	Nebula	SH2-1	*09:23-11:19	09:25	02	Scorpius: Diffuse Nebula
HyperStar	Nebula	Nebula	IC-4592	*09:23-11:40	09:39	04	Scorpius: Blue Horsehead Nebula
HyperStar	Nebula	Nebula	IC-4604	*09:23-12:07	09:52	05	Comp2! Scorpius: Ophiuchus Complex
HyperStar	Nebula	Nebula	M-8	*09:23-01:43	11:29	15	Sagittarius: Lagoon Nebula
HyperStar	Nebula	Nebula	M-16	*09:46-01:48	11:45	19	Serpens: Eagle Nebula
HyperStar	Nebula	Nebula	M-17	*10:07-01:26	11:47	20	Sagittarius: Omega Nebula
HyperStar	Nebula	Nebula	NGC-6820	09:23 – 03:43	01:08	30	Vulpecula: Open Cluster & Nebula
HyperStar	Nebula	Nebula	B-144	09:47 – 03:43	01:24	33	Cygnus: Fish on the Platter Region
HyperStar	Nebula	Nebula	IC-1318 A & B	09:59 – 03:43	01:42	37	Comp2! Cygnus: Gama Cygni Nebula
HyperStar	Nebula	Nebula	IC-1318A	09:59 – 03:43	01:43	37	Cygnus: Bright Nebula Region of Interest
HyperStar	Nebula	Nebula	IC-1318B	10:12 – 03:43	01:54	38	Cygnus: Bright Nebula Region of Interest
HyperStar	Nebula	Nebula	IC-5070	10:30 – 03:43	02:17	40	Comp2!Cygnus: Pelican & N. American Nebula
HyperStar	Nebula	Nebula	IC-5070	10:30 – 03:43	02:17	40	Cygnus: Pelican & N. American Nebula
HyperStar	Nebula	DN	LDN-904	10:38 – 03:43	02:18	41	Cygnus: Northern Coal Sack
HyperStar	Nebula	Nebula	NGC-6960	10:48 – 03:43	02:19	41	Comp2! Cygnus: Veil Nebula
HyperStar	Nebula	Nebula	NGC-6960	10:48 – 03:43	02:19	41	Cygnus: Veil Nebula
HyperStar	Nebula	Nebula	IC-1396	11:20 – 03:43	03:04	47	Cepheus: Elephant Trunk
HyperStar	Nebula	DN, BN	B-168	11:33 – 03:43	03:19	50	Cygnus: Dark Cocoon

Prospective Imaging Objects – July 05 2024

HyperStar: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Broad Spectrum	DN, GC	M-62 Region	*09:23-11:36	10:27	07	Ophiuchus: Globular Cluster and Dark Nebula
HyperStar	Broad Spectrum	DN	LDN-42	*09:23-12:51	10:58	10	Comp4! Ophiuchus: Dark Horse Nebula
HyperStar	Broad Spectrum	DN	LDN-1773	*09:23-12:33	10:46	10	Ophiuchus: Pipe Nebula
HyperStar	Broad Spectrum	DN	B-72	*09:23-01:04	10:50	11	Ophiuchus: Snake Nebula
HyperStar	Broad Spectrum	DN	IC-1283	*09:46-01:40	11:43	18	Comp2! Sagittarius: IC-1283 Region
HyperStar	Broad Spectrum	DN	B-138	10:31 – 02:56	12:40	27	Aquila: Barnard's Black Lizard
HyperStar	Broad Spectrum	DN	LDN-673	09:59 – 03:41	12:47	28	Aquila: Dark Nebula Area
HyperStar	Broad Spectrum	DN	LDN-772	09:23 – 03:43	12:51	28	Vulpecula: Lot Ness Monster

Prospective Imaging Objects – July 05 2024

Imaging Summary July 05, 2024

Astronomical Dusk = 09:23 Astronomical Dawn = 03:43

Focal Reducer: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Nebula	Nebula	SH2-9	09:23 – 11:43	09:48	04	Scorpius: Nebula next to Antares
Focal Reducer	Nebula	Nebula	M-20	*09:23-01:43	11:29	15	Sagittarius: Trifid Nebula
Focal Reducer	Nebula	Nebula	M-8	*09:28-01:34	11:30	16	Sagittarius: Lagoon Nebula
Focal Reducer	Nebula	Nebula	IC-4685	*09:31-01:51	11:37	17	Rotation 90: Sagittarius: DN and Emission Nebula
Focal Reducer	Nebula	Nebula	IC-1274	*09:31-01:51	11:37	17	Sagittarius: Bright and Dark Nebula
Focal Reducer	Nebula	Nebula	M-16	*09:46-01:48	11:45	20	Serpens: Eagle Nebula
Focal Reducer	Nebula	Nebula	M-17	*10:07-01:26	11:47	21	Sagittarius: Omega Nebula
Focal Reducer	Nebula	Nebula	NGC-6820	09:23 – 03:43	01:08	30	Vulpecula: The Finger
Focal Reducer	Nebula	Nebula	SH2-101	09:47 – 03:43	01:24	33	Cygnus: Tulip Nebula
Focal Reducer	Nebula	Nebula	IC-1318 R1	10:07 – 03:43	01:51	38	Cygnus: IC-1318 Region of Interest
Focal Reducer	Nebula	Nebula	IC-1318B	10:12 – 03:43	01:54	39	Cygnus: IC-1318B Region of Interest
Focal Reducer	Nebula	Nebula	NGC-6960	10:48 – 03:43	02:19	42	Comp2! Cygnus: Witch's Broom
Focal Reducer	Nebula	Nebula	NGC-6960B	10:48 – 03:43	02:19	42	Cygnus: Pickering's Triangular Wisp
Focal Reducer	Nebula	Nebula	NGC-6992	10:50 – 03:43	02:22	43	Comp2! Cygnus: Network Nebula
Focal Reducer	Nebula	Nebula	IC-1396-1	11:30 – 03:43	03:04	48	Cepheus: Elephant Trunk ROI
Focal Reducer	Nebula	Nebula	IC-1396-2	11:30 – 03:43	03:04	48	Cepheus: Elephant Trunk ROI
Focal Reducer	Nebula	Nebula	IC-5146	11:33 – 03:43	03:19	50	Cygnus: Cocoon Nebula
Focal Reducer	Nebula	Nebula	LDN-1235	01:01 – 03:43	03:40	51	Cepheus: Dark Shark

Prospective Imaging Objects – July 05 2024

Focal Reducer: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Broad Spectrum	DN, GC	M-9	*09:23-12:58	10:45	09	Ophiuchus: Globular Cluster and Dark Nebula
Focal Reducer	Broad Spectrum	DN	LDN-1773	*09:23-12:33	10:46	11	Ophiuchus: Pipe Nebula
Focal Reducer	Broad Spectrum	DN	B-72	*09:23-01:04	10:50	11	Ophiuchus: Snake Nebula
Focal Reducer	Broad Spectrum	DN	B-75	*09:23-12:33	10:51	12	Ophiuchus: Barnard 75
Focal Reducer	Broad Spectrum	OC, DN	M-24	*09:38-01:48	11:43	19	Sagittarius: Sagittarius Star Cloud
Focal Reducer	Broad Spectrum	DN	B-143	10:19 – 03:43	01:06	29	Aquila: Barnard's E
Focal Reducer	Broad Spectrum	RN	NGC-7023	11:09 – 03:43	02:27	44	Cepheus: Iris Nebula
Focal Reducer	Broad Spectrum	OC	M-39	11:10 – 03:43	02:57	46	Cygnus: Open Cluster NGC-7092

Prospective Imaging Objects – July 05 2024

Imaging Summary July 05, 2024

Astronomical Dusk = 09:23 Astronomical Dawn = 03:43

Primary Focus: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	PN	NGC-6058	09:23 – 01:19	09:31	03	Hercules: Small PN
Primary Focus	Nebula	PN	IC-4593	09:23 – 12:35	09:38	03	Hercules: White Eyed Pea
Primary Focus	Nebula	PN	Abell-39	09:23 – 01:26	09:54	05	Hercules: Perfect Planetary PK 47+42.1
Primary Focus	Nebula	PN	NGC-6210	09:23 – 01:35	10:11	06	Hercules: Small PN Turtle Nebula
Primary Focus	Nebula	PN	NGC-6309	*09:23-12:43	10:40	08	Ophiuchus: Box Nebula
Primary Focus	Nebula	PN	NGC-6359	*09:23-01:11	10:55	12	Ophiuchus: Little Ghost
Primary Focus	Nebula	PN	NGC-6445	*09:23-01:08	11:15	13	Sagittarius: Box Nebula
Primary Focus	Nebula	PN	NGC-6543	09:23 – 02:56	11:25	14	Draco: Cat's Eye Nebula
Primary Focus	Nebula	Nebula	M-20	*09:23-01:43	11:29	15	Sagittarius: Trifid Nebula
Primary Focus	Nebula	Nebula	M-8	*09:28-01:34	11:30	16	Sagittarius: Lagoon Nebula
Primary Focus	Nebula	PN	NGC-6572	09:23 – 02:18	11:38	17	Ophiuchus: Emerald Nebula
Primary Focus	Nebula	Nebula	IC-1283	*09:46-01:40	11:43	19	Sagittarius: Nebula region NGC-6589
Primary Focus	Nebula	Nebula	M-17	*10:07-01:26	11:47	21	Sagittarius: Omega Nebula
Primary Focus	Nebula	PN	NGC-6629	*09:38-01:16	11:52	22	Sagittarius: Sm Planetary Nebula
Primary Focus	Nebula	PN	IC-4776	*10:40-01:43	12:12	24	Sagittarius: Sm Planetary Nebula
Primary Focus	Nebula	PN	M-57	09:23 – 03:43	12:19	25	Lyra: Ring Nebula
Primary Focus	Nebula	PN	Abell-50	09:23 – 03:43	12:25	26	Draco: Med Planetary Nebula
Primary Focus	Nebula	PN	NGC-6751	*12:25-02:45	12:32	26	Aquila: Dandelion Puffball Nebula (Sm)
Primary Focus	Nebula	PN	NGC-6772	*10:18-03:10	12:40	26	Aquila: Med Planetary Nebula
Primary Focus	Nebula	PN	NGC-6778	10:47 – 02:48	12:44	27	Aquila: Small Planetary Nebula
Primary Focus	Nebula	PN	NGC-6781	10:12 – 03:23	12:44	28	Aquila: Med Planetary Nebula
Primary Focus	Nebula	PN	NGC-6804	10:16 - 03:43	12:57	29	Aquila: Small Planetary Nebula
Primary Focus	Nebula	Nebula	NGCC-6820	09:23 – 03:43	01:08	30	Vulpecula: The Finger
Primary Focus	Nebula	PN	NGC-6818	*11:15-03:06	01:10	31	Sagittarius: Little Gem

Prospective Imaging Objects – July 05 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	PN	NGC-6826	09:23 – 03:43	01:11	31	Cygnus: Blinking Planetary
Primary Focus	Nebula	PN	NGC-6842	09:53 – 03:43	01:21	32	Vulpecula: Sm-Med Planetary Nebula
Primary Focus	Nebula	PN	M-27	10:09 – 03:43	01:25	32	Vulpecula: Dumbbell Nebula
Primary Focus	Nebula	Nebula	SH2-101	09:47 – 03:43	01:24	33	Cygnus: Tulip Nebula
Primary Focus	Nebula	PN	NGC-6852	11:13 – 03:43	01:26	34	Aquila: Small Planetary Nebula
Primary Focus	Nebula	Nebula	NGC-6888	09:58 – 03:43	01:38	34	Cygnus: Crescent Nebula
Primary Focus	Nebula	Nebula	DWB-111	09:56 – 03:43	01:39	35	Cygnus: Propeller Nebula
Primary Focus	Nebula	PN	NGC-6891	10:49 – 03:43	01:41	35	Delphinus: Small Planetary Nebula
Primary Focus	Nebula	PN	NGC-5894	10:12 – 03:43	01:42	35	Cygnus: Little Ring Nebula (Sm-Med)
Primary Focus	Nebula	PN	IC-4997	10:43 – 03:43	01:46	36	Sagitta: Small PN
Primary Focus	Nebula	PN	NGC-6905	10:37 – 03:43	01:48	36	Delphinus: Blue Flash Nebula
Primary Focus	Nebula	BN	IC-1318-1	10:07 – 03:43	01:51	38	Cygnus: Region of interest in IC-1318
Primary Focus	Nebula	BN	IC-1318B	10:12 – 03:43	01:54	39	Cygnus: Region of interest in IC-1318B
Primary Focus	Nebula	PN	NGC-7008	10:40 – 03:43	02:26	44	Cygnus: Fetus Nebula
Primary Focus	Nebula	PN	NGC-7009	02:11 – 03:43	02:56	45	Aquarius: Saturn Nebula
Primary Focus	Nebula	PN	NGC-7026	10:45 – 03:43	02:32	45	Cygnus: Small PN
Primary Focus	Nebula	PN	NGC-7027	10:49 – 03:43	02:33	45	Cygnus: Small PN
Primary Focus	Nebula	PN	NGC-7048	10:57 – 03:43	02:40	46	Cygnus: Med PN
Primary Focus	Nebula	PN	NGC-7094	12:10 – 03:43	03:02	47	Pegasus: Med PN
Primary Focus	Nebula	DN	IC-1396-1	11:30 – 03:43	03:04	48	Cepheus: Elephant Trunk ROI
Primary Focus	Nebula	BN	IC-1396-2	11:20 – 03:43	03:04	49	Cepheus: Elephant Trunk RIO
Primary Focus	Nebula	BN	IC-1396-3	11:20 – 03:43	03:04	49	Cepheus: Elephant Trunk RIO
Primary Focus	Nebula	PN	NGC-7139	11:38 – 03:43	03:12	50	Cepheus: Med/Lrg Planetary
Primary Focus	Nebula	BN	IC-5146	11:33 -03:43	03:19	51	Cygnus: Cocoon Nebula

Prospective Imaging Objects – July 05 2024

Imaging Summary July 05, 2024

Astronomical Dusk = 09:23 Astronomical Dawn = 03:43

Primary Focus: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxies	NGC-6027A-E	09:23 – 12:44	09:26	02	Serpens: Seyfert's Sextet
Primary Focus	Broad Spectrum	Galaxies	Abell-2151	09:23 – 12:43	09:32	02	Hercules: Hercules Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxy	Arp-188	09:23 – 01:25	09:32	03	Draco: Tadpole Galaxy
Primary Focus	Broad Spectrum	Globular	M-80	*09:23-11:58	09:43	04	Scorpius: Med Globular NGC-6093
Primary Focus	Broad Spectrum	Globular	M-4	*09:23-11:40	09:50	05	Scorpius: Large Globular Cluster NGC-6121
Primary Focus	Broad Spectrum	Globular	M-107	*09:23-12:04	09:59	06	Ophiuchus: Med Globular NGC-6171
Primary Focus	Broad Spectrum	Globular	M-13	09:23 – 01:52	10:08	06	Hercules: The Great Hercules Globular NGC-5205
Primary Focus	Broad Spectrum	Globular	M-12	09:23 – 12:15	10:13	07	Ophiuchus: Large Globular NGC-6218
Primary Focus	Broad Spectrum	Globular	M-10	09:23 – 12:12	10:23	07	Ophiuchus: Large Globular NGC-6254
Primary Focus	Broad Spectrum	Globular	M-62	*09:23-11:36	10:27	08	Ophiuchus: Large Globular NGC-6266
Primary Focus	Broad Spectrum	Globular	M-19	*09:23-12:19	10:29	08	Ophiuchus: Med Globular NGC-6273
Primary Focus	Broad Spectrum	Globular	M-92	09:23 – 02:34	10:43	09	Hercules: Med Globular NGC-6341
Primary Focus	Broad Spectrum	Globular	M-9	*09:23-12:58	10:45	09	Ophiuchus: Med Globular NGC-6333
Primary Focus	Broad Spectrum	Globular	M-14	09:23 – 12:57	11:04	12	Ophiuchus: Med Globular NGC-6402
Primary Focus	Broad Spectrum	OC	M-6	*09:23-12:51	11:06	13	Scorpius: Butterfly Cluster
Primary Focus	Broad Spectrum	DN	B-84	*09:23-01:04	11:13	13	Sagittarius: Praying Matis Nebula
Primary Focus	Broad Spectrum	OC	M-7	*10:15-12:33	11:20	14	Scorpius: Ptolemy Cluster
Primary Focus	Broad Spectrum	OC	M-23	*09:25-01:30	11:23	14	Sagittarius: Open Cluster NGC-6494
Primary Focus	Broad Spectrum	OC	M-21	*10:04-01:08	11:30	16	Sagittarius: Open Cluster NGC-6531
Primary Focus	Broad Spectrum	DN	B-93	*09:31-01:55	1:43	18	Sagittarius: Dark Nebula LDN-327
Primary Focus	Broad Spectrum	OC	M-18	*10:18-01:19	11:46	20	Sagittarius: Open Cluster NGC-66133
Primary Focus	Broad Spectrum	GC	M-28	*09:49-01:58	11:51	21	Sagittarius: Med Globular NGC-6626
Primary Focus	Broad Spectrum	OC	NGC-6633	09:23 – 02:33	11:53	22	Ophiuchus: Open Cluster NGC-6633

Prospective Imaging Objects – July 05 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	GC	M-69	*10:15-01:37	11:57	22	Sagittarius: Med Globular NGC-6637
Primary Focus	Broad Spectrum	OC	M-25	*09:56-02:01	11:58	23	Sagittarius: Open Cluster IC-4725
Primary Focus	Broad Spectrum	GC	M-22	*09:56-02:16	11:02	23	Sagittarius: Med Globular NGC-6656
Primary Focus	Broad Spectrum	GC	M-70	*10:25-01:51	12:09	23	Sagittarius: Sm Globular NGC-6681
Primary Focus	Broad Spectrum	OC	M-26	*10:22-01:58	12:11	24	Sagittarius: Open Cluster NGC-6694
Primary Focus	Broad Spectrum	DN	B-104	*10:00-02:34	12:13	24	Scutum: Check mark
Primary Focus	Broad Spectrum	OC	M-11	*10:07-02:31	12:17	25	Scutum: Wild Duck Cluster
Primary Focus	Broad Spectrum	GC	M-54	*10:22-02:27	12:21	25	Sagittarius: Med Globular
Primary Focus	Broad Spectrum	GC	M-56	09:23 – 03:43	12:42	27	Lyra: Med Globular
Primary Focus	Broad Spectrum	GC	M-55	*12:33-01:55	01:06	29	Sagittarius: Large Globular
Primary Focus	Broad Spectrum	Galaxy	NGC-6822	*10:43-03:43	01:11	31	Sagittarius: Barnard's Galaxy (Large Galaxy)
Primary Focus	Broad Spectrum	GC	M-71	10:12 – 03:43	01:20	32	Sagitta: Med Globular
Primary Focus	Broad Spectrum	GC	M-75	*12:00-03:15	01:32	34	Sagittarius: Med Globular
Primary Focus	Broad Spectrum	OC	M-29	10:09 – 03:43	01:49	36	Cygnus: Open Cluster in Cygnus
Primary Focus	Broad Spectrum	Galaxy	NGC-6946	10:19 – 03:43	02:01	39	Cepheus: Fireworks Galaxy (Large Face On)
Primary Focus	Broad Spectrum	GC	M-72	*12:12-03:43	02:19	42	Aquarius: Medium Globular
Primary Focus	Broad Spectrum	OC	M-73	*12:22-03:43	02:25	43	Aquarius: Open Cluster NGC-6994
Primary Focus	Broad Spectrum	RN	NGC-7023	11:09 – 03:43	02:27	44	Cepheus: Iris Nebula
Primary Focus	Broad Spectrum	GC	M-15	12:05 – 03:43	02:55	46	Pegasus: Pegasus Cluster
Primary Focus	Broad Spectrum	GC	M-2	12:58 – 03:43	02:59	47	Aquarius: Large Globular
Primary Focus	Broad Spectrum	GC	M-30	*12:58-03:43	03:06	49	Capricornus: Med Globular

Prospective Imaging Objects – July 05 2024

Imaging Summary July 05, 2024

Astronomical Dusk = 09:23 Astronomical Dawn = 03:43

Primary Prospects

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	HyperStar	Nebula	Nebula	SH2-1	*09:23-11:19	09:25	02	Scorpius: Blue Nebula
	HyperStar	Broadband	DN, GC	M-62 Region	*09:23-11:36	10:27	07	Ophiuchus: M-62 Region
	HyperStar	Broadband	DN	LDN-42	*09:23-12:51	10:58	10	Comp4! Ophiuchus: Dark Horse Nebula
	HyperStar	Broadband	DN	B-72	*09:23-01:04	10:50	11	Ophiuchus: Snake Nebula
	HyperStar	Broadband	DN	IC-1283	*09:46-01:40	11:43	18	Comp2! Sagittarius: DNebula NGC-6589
	HyperStar	Nebula	Nebula	M-17	*10:07-01:26	11:47	20	Sagittarius: Omega Nebula
	HyperStar	Broadband	DN	B-138	10:31 – 02:56	12:40	27	Aquila: Barnard's Black Lizard
	HyperStar	Broadband	DN	LDN-673	09:59 – 03:41	12:47	28	Aquila: Dark Nebula
	HyperStar	Nebula	Nebula	NGC-6820	09:23 – 03:43	01:08	30	Vulpecula: Nebula Region
	HyperStar	Nebula	Nebula	IC-1318A	09:59 – 03:43	01:43	37	Cygnus: Cygnus ROI
	HyperStar	Nebula	Nebula	IC-1318B	10:12 – 043:43	01:54	38	Cygnus: Cygnus ROI
	HyperStar	Nebula	DN	LDN-904	10:38 – 03:43	02:18	41	Cygnus: Northern Coal Sack
	HyperStar	Nebula	Nebula	NGC-5960	10:48 – 03:43	02:19	41	Comp2! Cygnus: Veil Nebula
	HyperStar	Nebula	BN & DN	B-168	11:33 – 03:43	03:19	50	Cygnus: Dark Cocoon
	HyperStar	Nebula						
	Focal Reducer	Nebula	Nebula	SH2-9	09:23 – 11:43	09:48	04	Scorpius: Diffuse Nebula near star
	Focal Reducer	Broadband	DN & GC	M-9	*09:23-12:58	10:45	09	Ophiuchus: Dark Nebula and Globular
	Focal Reducer	Broadband	DN	LDN-1773	*09:23-12:33	10:46	11	Ophiuchus: Pipe Nebula
	Focal Reducer	Broadband	DN	B-75	*09:23-12:33	10:51	12	Ophiuchus: Barnard 75
	Focal Reducer	Nebula	Nebula	M-20	*09:23-01:43	11:29	15	Sagittarius: Trifid Nebula
	Focal Reducer	Nebula	Nebula	M-8	*09:28-01:34	11:30	16	Sagittarius: Lagoon Nebula
	Focal Reducer	Nebula	Neb, DN	IC-4685	*09:31-01:51	11:37	17	Rot90 Sagittarius: Bright and Dark nebula
	Focal Reducer	Broadband	Broadband	M-24	*09:38-01:48	11:43	19	Sagittarius: Sagittarius Star Cloud
	Focal Reducer	Nebula	Nebula	M-16	*09:46-01:48	11:45	20	Serpens: Eagle Nebula

Prospective Imaging Objects – July 05 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Focal Reducer	Nebula	Nebula	M-17	*10:07-01:26	11:447	21	Sagittarius: Omega Nebula
	Focal Reducer	Broadband	DN	B-143	10:19 – 03:43	01:06	29	Aquila: Barnard's E
	Focal Reducer	Nebula	Nebula	SH2-101	09:47 – 03:43	01:24	33	Cygnus: Tulip Nebula
	Focal Reducer	Nebula	Nebula	NGC-6914	10:07 – 03:43	01:51	38	Cygnus: Region 01
	Focal Reducer	Nebula	Nebula	IC-1381B	10:12 – 03:43	01:54	39	Cygnus: IC-1318B
	Focal Reducer	Nebula	Nebula	NGC-6992	10:50 – 03:43	02:22	43	Comp2! Cygnus: Network Nebula
	Focal Reducer	Nebula	RN	NGC-7023	11:09 – 03:43	02:27	44	Cepheus: Iris Nebula
	Focal Reducer	Nebula	OC	M-39	11:10 – 03:43	02:57	46	Cygnus: Open Cluster (NGC-7092)
	Focal Reducer	Nebula	Nebula	IC-1396	11:20 – 03:42	03:04	48	Cepheus: Elephant Trunk RIO1
	Focal Reducer	Nebula	Nebula	IC-1396	11:20 – 03:42	03:04	48	Cepheus: Elephant Trunk RIO2
	Focal Reducer	Nebula	BN & DN	IC-5146	11:33 – 03:43	03:19	50	Cygnus: Cocoon Nebula
	Focal Reducer	Nebula	DN	LDN-1235	01:01 – 03:43	03:40	51	Cepheus: Dark Shark
	Primary Focus	Nebula	PN	NGC-6058	09:23 – 01:19	09:31	03	Hercules: Small Planetary nebula
	Primary Focus	Broadband	GC	M-107	*09:23-12:04	09:59	06	Ophiuchus: Med Globular
	Primary Focus	Broadband	GC	M-62	*09:23-11:36	10:27	08	Ophiuchus: Large Globular
	Primary Focus	Broadband	GC	M-19	*09:23-12:19	10:29	08	Ophiuchus: Large Globular
	Primary Focus	Nebula	PN	NGC-6309	*09:23-12:43	10:40	08	Hercules: Box Nebula
	Primary Focus	Nebula	PN	NGC-6359	*09:23-01:11	10:55	12	Ophiuchus: Little Ghost
	Primary Focus	Broadband	OC	M-6	*09:23-12:51	11:06	13	Scorpius: Butterfly Cluster
	Primary Focus	Broadband	OC	M-7	*10:15-12:33	11:20	14	Scorpius: Ptolemy Cluster
	Primary Focus	Nebula	Nebula	M-8	*09:28-01:34	11:30	16	Sagittarius: Lagoon Nebula
	Primary Focus	Broadband	DN	B-93	*09:31-01:55	11:43	18	Sagittarius: Dark Nebula LDN-327
	Primary Focus	Nebula	Nebula	IC-1283	*09:46-01:40	11:43	19	Sagittarius: Diffuse Nebula NGC-6589
	Primary Focus	Broadband	GC	M-28	*09:49-01:58	11:51	21	Sagittarius: Med GC NGC-6626
	Primary Focus	Nebula	PN	NGC-6629	*09:38-01:16	11:52	22	Sagittarius: Small PN
	Primary Focus	Broadband	GC	M-69	*10:15-01:37	11:57	22	Sagittarius: Sm-Med Globular NGC-6637
	Primary Focus	Broadband	GC	M-70	*10:25-01:51	12:09	23	Sagittarius: Sm/Med Globular NGC-6681
	Primary Focus	Nebula	PN	IC-4776	*10"40-01:43	12:12	24	Sagittarius: Small PN

Prospective Imaging Objects – July 05 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Primary Focus	Broadband	DN	B-104	*10:00-02:34	12:13	24	Scutum: Checkmark DN
	Primary Focus	Broadband	OC	M-11	*10:07-02:31	12:17	25	Scutum: Wild Duck Cluster
	Primary Focus	Nebula	PN	Abell-50	09:23 – 03:43	12:25	26	Draco: Med Planetary Nebula
	Primary Focus	Nebula	PN	NGC-6751	*12:25-02:45	12:32	26	Aquila: Small Planetary Nebula
	Primary Focus	Nebula	PN	NGC-6772	*10:18-03:18	12:40	26	Aquila: Med Planetary Nebula
	Primary Focus	Broadband	GC	M-56	09:23 – 03:43	12:42	27	Lyra: Med Globular
	Primary Focus	Nebula	PN	NGC-6781	10:12 – 03:23	12:44	28	Aquila: Med Planetary Nebula
	Primary Focus	Broadband	GC	M-55	*12:33-01:55	01:06	29	Sagittarius: Large Globular
	Primary Focus	Nebula	Nebula	NGC-6820	09:23 – 03:43	01:08	30	Vulpecula: The Finger
	Primary Focus	Nebula	PN	NGC-6826	09:23 – 03:43	01:11	31	Cygnus: Blinking Planetary
	Primary Focus	Broadband	Galaxy	NGC-6822	*10:43-03:43	01:11	31	Sagittarius: Barnard's Galaxy
	Primary Focus	Broadband	GC	M-71	10:12 – 03:43	01:20	32	Sagitta: Med Globular
	Primary Focus	Nebula	PN	NGC-6842	09:53 – 03:43	01:21	32	Vulpecula: Sm/Med Planetary Nebula
	Primary Focus	Nebula	Nebula	Sh2-101	09:47 – 03:43	01:24	33	Cygnus: Tulip Nebula
	Primary Focus	Broadband	GC	M-75	*12:00-03:15	01:32	34	Sagittarius: Med Globular
	Primary Focus	Nebula	Nebula	NGC-6888	09:58 – 03:43	01:38	34	Cygnus: Crescent Nebula
	Primary Focus	Nebula	Nebula	NGC-6894	10:12 – 03:43	01:42	35	Cygnus: Sm/Med Planetary Nebula
	Primary Focus	Nebula	Nebula	NGC-6914	10:07 – 03:43	01:51	38	Cygnus: IC-1318 Region-1
	Primary Focus	Broadband	Galaxy	NGC-6946	10:19 – 03:43	02:01	39	Cepheus: Fireworks Galaxy
	Primary Focus	Broadband	Globular	M-72	*12:12-03:43	02:19	42	Aquarius: Med Globular NGC-6981
	Primary Focus	Nebula	PN	NGC-7009	02:11 – 03:43	02:56	45	Aquarius: Saturn Nebula
	Primary Focus	Nebula	PN	NGC-7027	10:49 – 03:43	02:33	45	Cygnus: Small PN
	Primary Focus	Nebula	PN	NGC-7048	10:54 – 03:43	02:40	46	Cygnus: Sm/med PN
	Primary Focus	Broadband	Globular	M-2	12:58 – 03:43	02:59	47	Aquarius: Large GC NGC-7089
	Primary Focus	Nebula	PN	NGC-7094	12:10 – 03:43	03:02	47	Pegasus: sm/med PN
	Primary Focus	Nebula	DN	IC-1396	11:20 – 03:43	03:04	48	Cepheus: Dark Nebula
	Primary Focus	Nebula	Nebula	IC-1396	11:30 – 03:43	03:04	49	Cepheus: Elephant Trunk RIO 1
	Primary Focus	Nebula	Nebula	IC-1396	11:20 – 03:43	03:04	49	Cepheus: Elephant Trunk RIO 2

Prospective Imaging Objects – July 05 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Primary Focus	Broadband	Globular	M-30	*12:58-03:43	03:06	49	Capricornus: Med Globular NGC-7099

Prospective Imaging Objects – July 05 2024

Imaging Summary July 05, 2024

Astronomical Dusk = 09:23 Astronomical Dawn = 03:43

Imaging Plans

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Imaging Schedule
	HyperStar	Nebula	Nebula	**SH2-240**				
	HyperStar	Nebula	Nebula	IC-2162				
	HyperStar	Nebula	Nebula	NGC-1499				
	HyperStar	Broadband	Galaxies	M-106 et. El.				
	Focal Reducer	Nebula	Nebula	IC-443				
	Focal Reducer	Broadband	Galaxies	M-84 et. El.				
	Focal Reducer	Nebula	Nebula	IC-1805				
	Focal Reducer	Nebula	Nebula	NGC-2174				
	Focal Reducer	Broadband	Galaxies					
	Primary Focus	Nebula	PN	NGC-1360				
	Primary Focus	Nebula	PN	NGC-2440				
	Primary Focus	Nebula	PN	NGC-2610				
	Primary Focus	Broad Spectrum	Globular	M-68				
	Primary Focus	Nebula	Nebula					
	Primary Focus	Nebula	Nebula					
	Primary Focus	Broad Spectrum	Galaxy					
	Primary Focus	Broad Spectrum	Galaxy					
	Primary Focus	Broad Spectrum	Galaxy					