Prospective Imaging Objects – August 04 2024

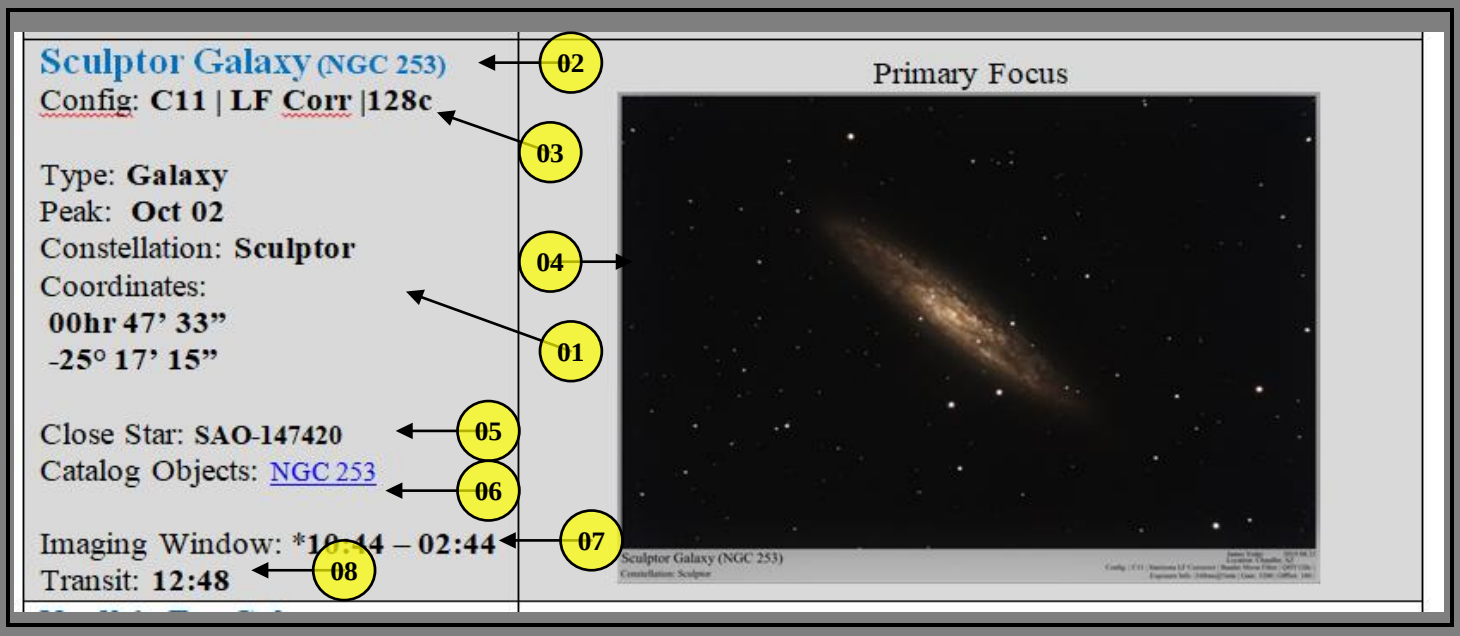
Astronomical Data

Sunrise	Sunset	Astronomical Dusk	Astronomical Dawn	Imaging	New Moon
05:43am	07:23 pm	08:56 pm	04:10 am	07:14	August 04

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 – August 04 2024

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: ***08:56 – 11:13** Transit: **08:58 | 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: **08:56 – 11:00** Transit: **09:06 | 53°**	**C-11 HD: Primary Focus** 
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: ***08:56 – 10:50** Transit: **09:09 | 24°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – August 04 2024

Praying Matis Nebula (B-84)

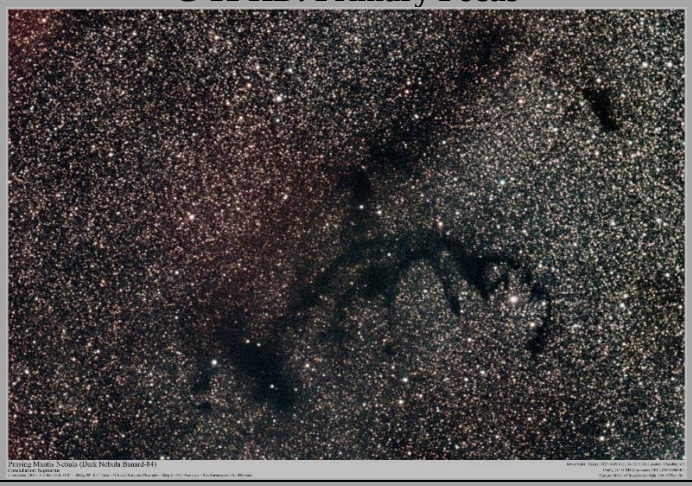
Config: |C11HD|ZWO6200MC|

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: ***08:56 – 11:54**
Transit: **09:15 | 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: ***08:56 – 11:54**
Transit: **09:18 | 37°**

C-11 HD: Primary Focus

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: ***08:56 – 10:28**
Transit: **09:22 | 22°**

C-11 HD: Primary Focus

Prospective Imaging Objects – August 04 2024

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: ***08:56 – 12:12**
Transit: **09:26 | 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: **08:56 – 12:58**
Transit: **09:27 | 57°**

C-11 HD: Primary Focus

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: ***08:56 – 11:39**
Transit: **09:32 | 32°**

C-11 HD: HyperStar v4

Prospective Imaging Objects – August 04 2024

Trifid Nebula(M-20)

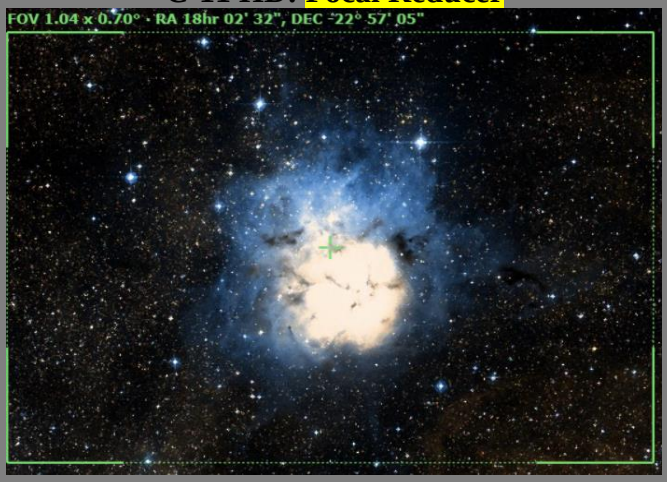
Config: |C11-HD|FR|ZWO6200MC|

Type: **Diffuse Nebula**

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

Close Star: **SAO-186841** (Kaus Borealis)
Catalog Objects: M-20/NGC-6514
Imaging Window: ***08:56 – 11:50**
Transit: **09:31 | 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: ***08:56 – 11:50**
Transit: **09:31 | 34°**

C-11 HD: Primary Focus

Lagoon Nebula (M-8)

Config: |C11-HD|FR|ZWO6200MC|

Type: **Diffuse Nebula**

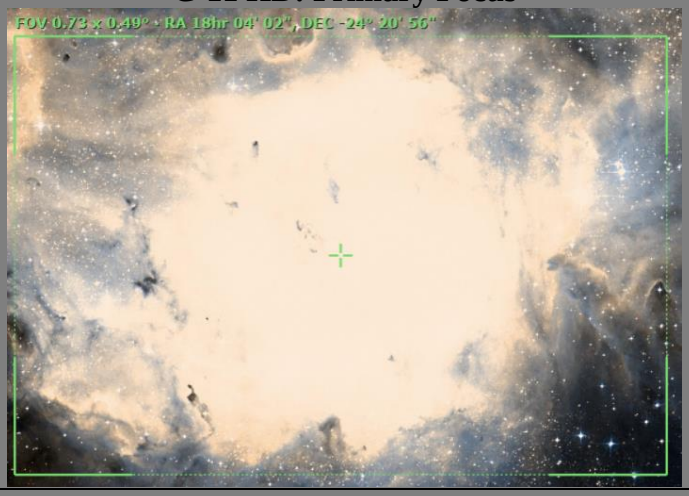
Constellation: **Sagittarius**
Coordinates:
Frame1 RA 18h:02’:35” DEC -24°:19’:48
Frame2 RA 18h:05’:21” DEC -24°:20’:12
Rotation: 90°

Close Star: **SAO-186841** (Kaus Borealis)
Catalog Objects: M-8/NGC-6523

Imaging Window: ***08:56 – 11:39**
Transit: **09:32 | 32°**

C-11 HD: Focal Reducer
Composite!-2

Prospective Imaging Objects – August 04 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: ***08:56 – 11:39** Transit: **09:32 | 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: ***08:56 – 11:39** Transit: **09:32 | 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: ***08:56 – 11:50** Transit: **09:33 | 34°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – August 04 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: ***08:56 – 11:50**
Transit: **09:40 | 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: ***08:56 – 11:50**
Transit: **09:40 | 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: **08:56 – 12:20**
Transit: **09:41 | 64°**

C-11 HD: Primary Focus

Prospective Imaging Objects – August 04 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: ***08:56 – 12:31**
Transit: **09:45 | 30°**

C-11 HD: Primary Focus

IC-1283 Region (NGC-6589)

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

Type: **Dark Nebula**

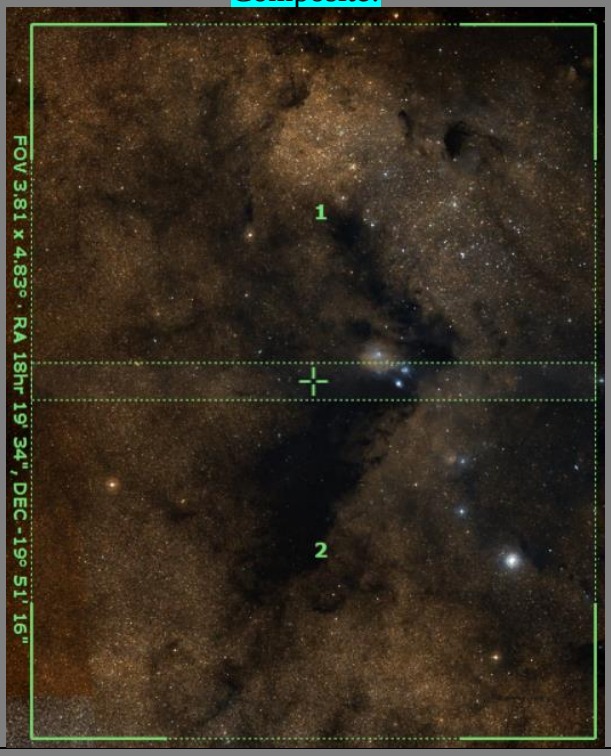
Constellation: **Sagittarius**
Coordinates:

- **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: ***08:56 – 12:27**
Transit: **09:45 | 37°**

C-11 HD: HyperStar v4
Composite!



Prospective Imaging Objects – August 04 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: ***08:56 – 12:27**
Transit: **09:45 | 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: ***08:56 – 12:31**
Transit: **09:45 | 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: ***08:56– 12:57**
Transit: **09:47 | 43°**

C-11 HD: HyperStar v4

Prospective Imaging Objects – August 04 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: ***08:56– 12:57**
Transit: **09:47 | 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: ***08:56 – 12:42**
Transit: **09:48 | 40°**

C-11 HD: Primary Focus

Omega Nebula(M-17)

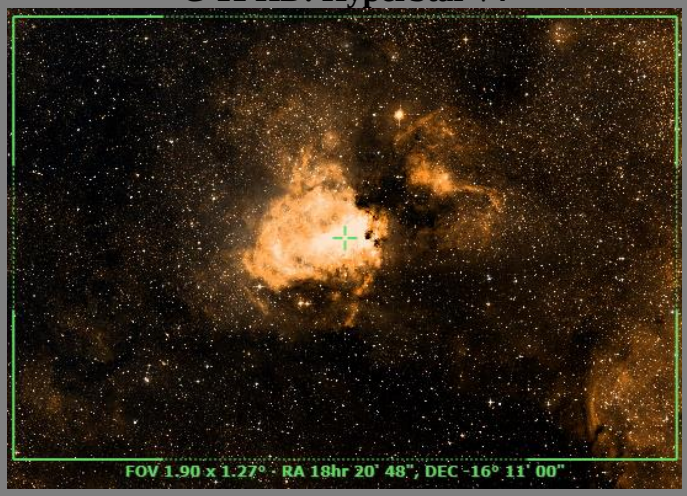
Config: |C11-HD|HS|ZWO6200MC|

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: ***08:56 – 12:50**
Transit: **09:49 | 40°**

C-11 HD: HyperStar v4



Prospective Imaging Objects – August 04 2024

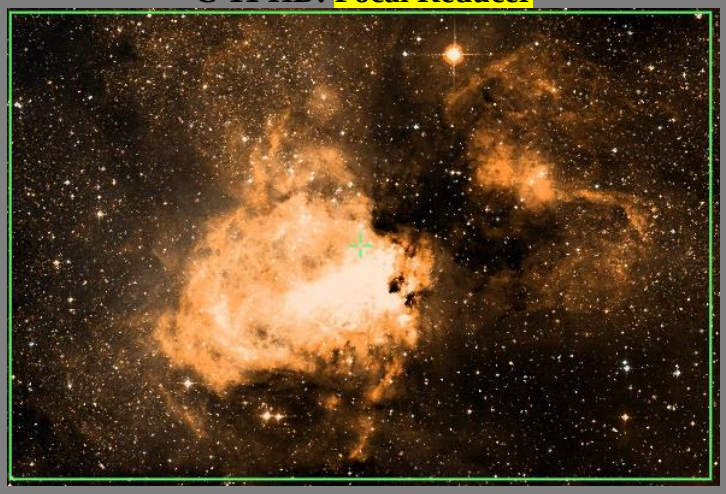
Omega Nebula(M-17)
Config: |C11-HD|FR|ZWO6200MC|

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: ***08:56 – 12:50**
Transit: **09:49 | 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: ***08:56 – 12:50**
Transit: **09:49 | 40°**

C-11 HD: Primary Focus

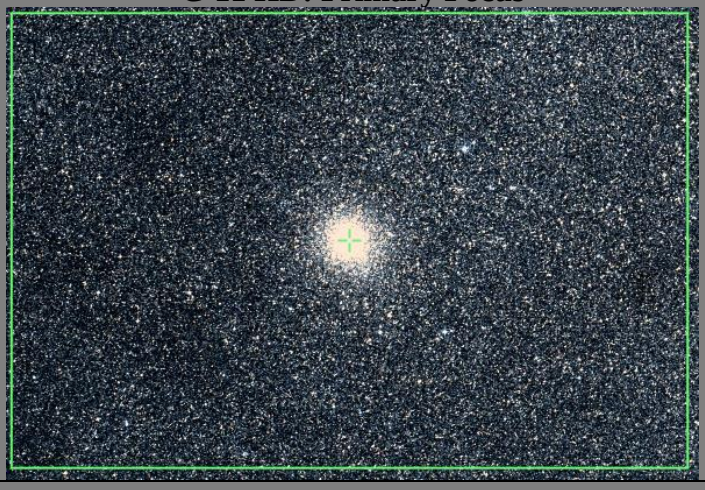
M-28(NGC-6626)
Config: |C11HD|ZWO6200MC|

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: ***08:56 – 11:54**
Transit: **09:53 | 32°**

C-11 HD: Primary Focus



Prospective Imaging Objects – August 04 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: ***08:56 – 12:09**
Transit: **09:54 | 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: **08:56 – 12:35**
Transit: **09:56 | 63°**

C-11 HD: Primary Focus

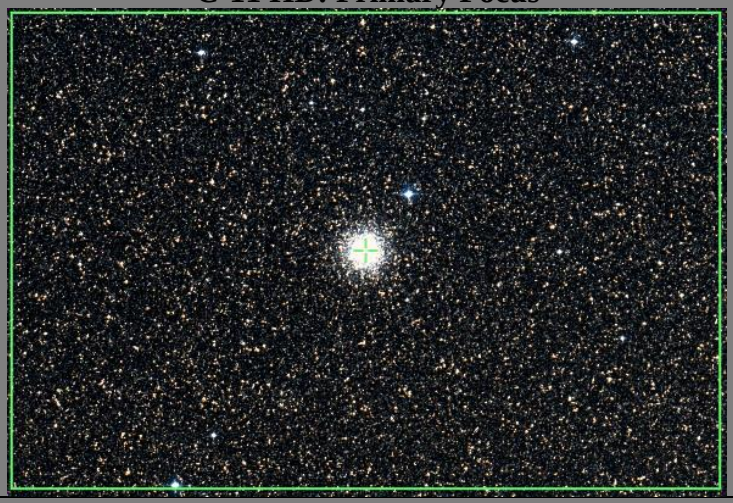
M-69(NGC-6637)
Config: |C11HD|ZWO6200MC|

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: ***08:56 – 11:50**
Transit: **10:00 | 24°**

C-11 HD: Primary Focus



Prospective Imaging Objects – August 04 2024

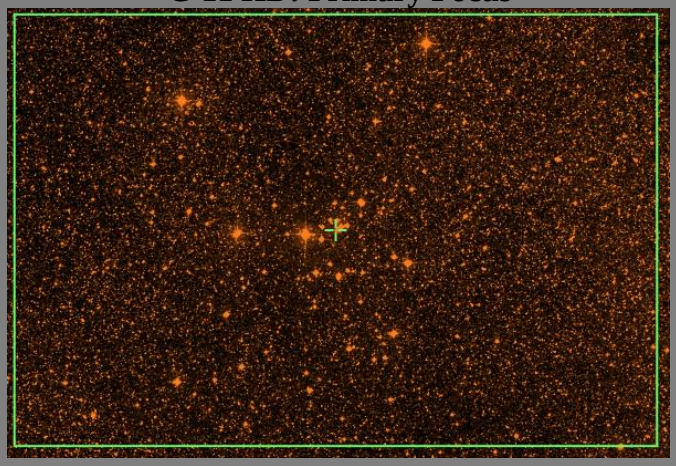
M-25 (IC-4725)
Config: |C11HD|ZWO6200MC|

Type: **Open Cluster**

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

Close Star: **SAO-186841** (Kaus Borealis)
Catalog Objects: M-25
Imaging Window: ***08:56 – 12:42**
Transit: **10:00 | 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: ***08:56 – 12:20**
Transit: **10:05 | 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: ***08:56 – 12:01**
Transit: **10:12 | 24°**

C-11 HD: Primary Focus

Prospective Imaging Objects – August 04 2024

M-26(NGC-6694)

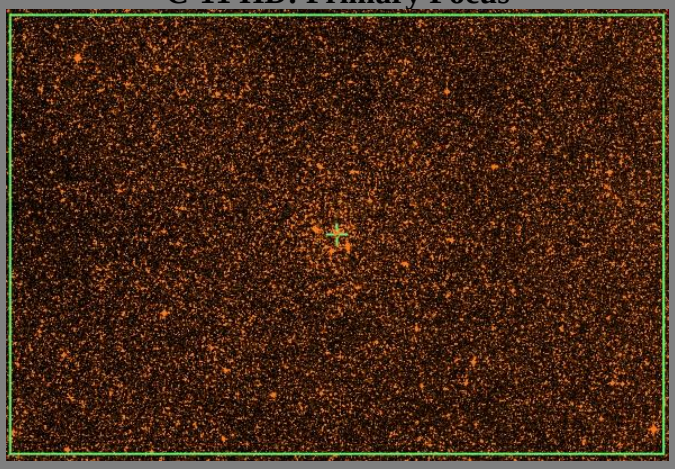
Config: |C11HD|ZWO6200MC|

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: ***08:56 – 01:12**
Transit:**10:14 | 47°**

C-11 HD: Primary Focus



IC-4776

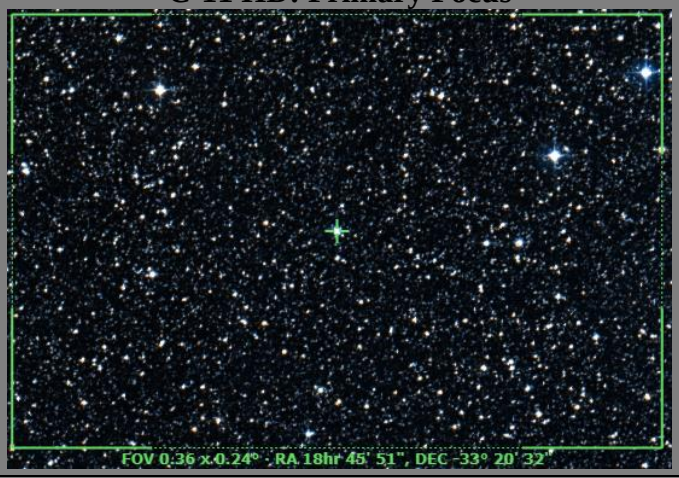
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Sagittarius**
Coordinates:
18h 45’ 51”
-33° 20’ 32”

Close Star: **SAO-186841** (Kaus Borealis)
Catalog Objects: IC-4776
Imaging Window: ***08:56 – 11:50**
Transit: **10:14 | 23°**

C-11 HD: Primary Focus



B-104(LDN-532)

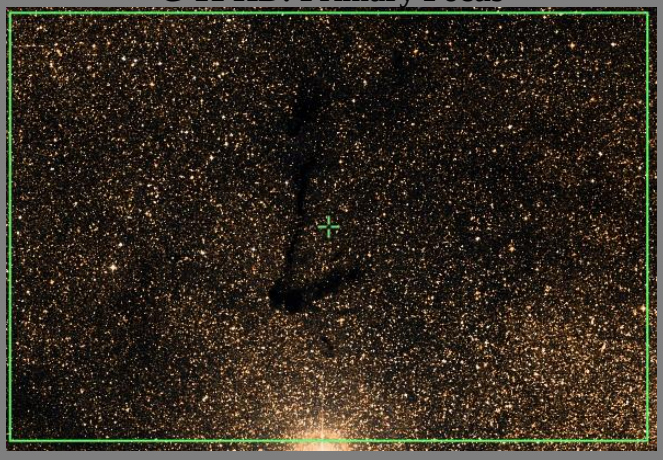
Config: |C11HD|ZWO6200MC|

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: ***08:56 – 01:34**
Transit: **10:16 | 52°**

C-11 HD: Primary Focus



Prospective Imaging Objects – August 04 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: ***08:56 – 01:57**
Transit: **10:20 | 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: **08:56 – 02:02**
Transit: **10:22 | 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: ***09:25 – 11:28**
Transit: **10:23 | 26°**

C-11 HD: Primary Focus

Prospective Imaging Objects – August 04 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: **08:56 – 02:21**
Transit: **10:28 | 87°**

C-11 HD: Primary Focus

Dandelion Puffball Nebula (NGC-6751)

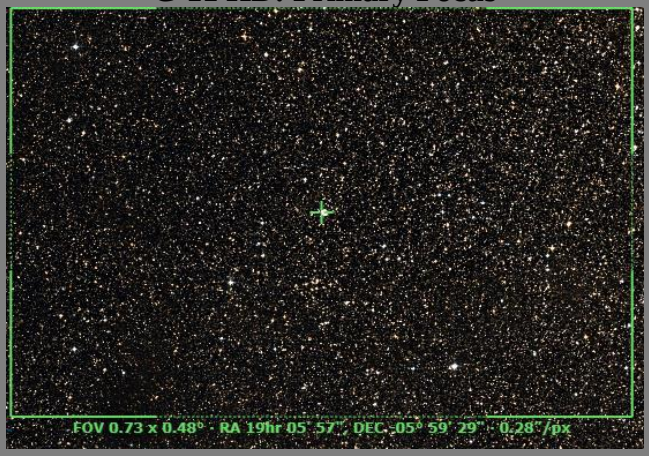
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

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

Close Star: **SAO-142931** (i Aquilae)
Catalog Objects: NGC-6751
Imaging Window: ***08:56 – 01:46**
Transit: **10:34 | 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: ***08:56 – 02:34**
Transit: **10:43 | 54°**

C-11 HD: Primary Focus

Prospective Imaging Objects – August 04 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: **08:56 – 12:58**
Transit: **10:42 | 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: **08:56 – 02:21**
Transit: **10:45 | 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: **08:56 – 12:50**
Transit: **10:47 | 55°**

C-11 HD: Primary Focus

Prospective Imaging Objects – August 04 2024

NGC-6781

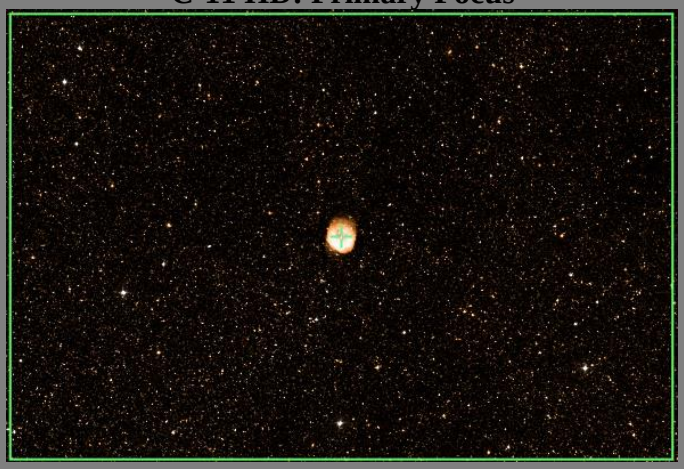
Config: |C11HD|ZWO6200MC|

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: **08:56 – 01:26**
Transit: **10:47 | 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: **08:56 – 01:43**
Transit: **10:49 | 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: **08:56 – 02:17**
Transit: **10:53 | 80°**

C-11 HD: HyperStar v4

Prospective Imaging Objects – August 04 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: **08:56 – 01:48**
Transit: **11:00 | 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: ***10:39 – 12:01**
Transit: **11:08 | 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: **08:56 – 02:02**
Transit: **11:09 | 67°**

C-11 HD: Focal Reducer

Prospective Imaging Objects – August 04 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: **08:56 – 02:34**
Transit: **11:11 | 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: **08:56 – 02:34**
Transit: **11:11 | 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: **08:56 – 02:34**
Transit: **11:11 | 80°**

C-11 HD: Primary Focus

Prospective Imaging Objects – August 04 2024

Little Gem (NGC-6818)

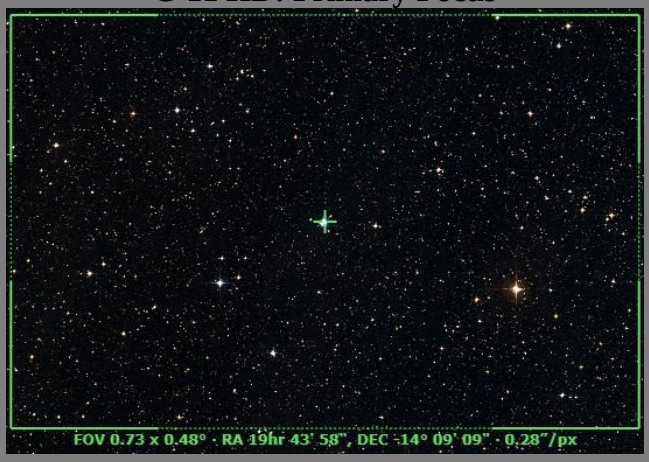
Config: |C11HD|ZWO6200MC|

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: ***08:56 – 02:19**
Transit: **11:12 | 43°**

C-11 HD: Primary Focus



Blinking Planetary (NGC-6826)

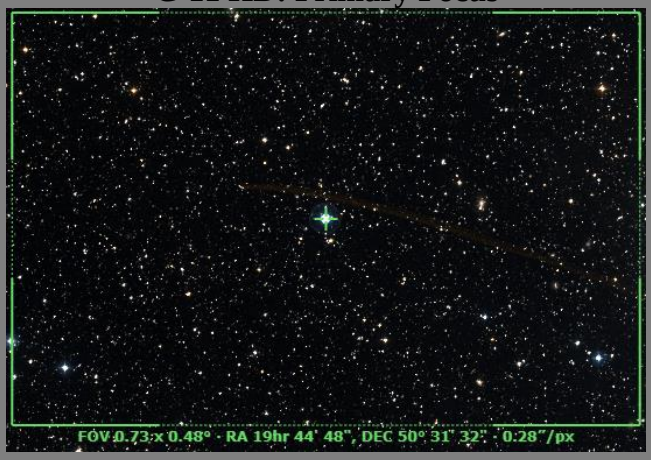
Config: |C11HD|ZWO6200MC|

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: **08:56 – 03:07**
Transit: **11:13 | 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: ***08:56 – 02:15**
Transit: **11:13 | 42°**

C-11 HD: Primary Focus

Prospective Imaging Objects – August 04 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: **08:56 – 02:36**
Transit: **11:22 | 75°**

C-11 HD: Primary Focus

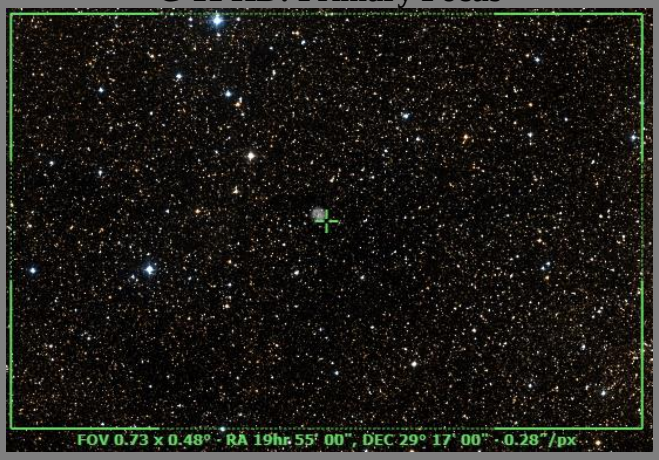
NGC 6842 (PK 65+0.1)
Config: |C11HD|ZWO6200MC|

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: **08:56 – 02:58**
Transit: **11:23 | 86°**

C-11 HD: Primary Focus



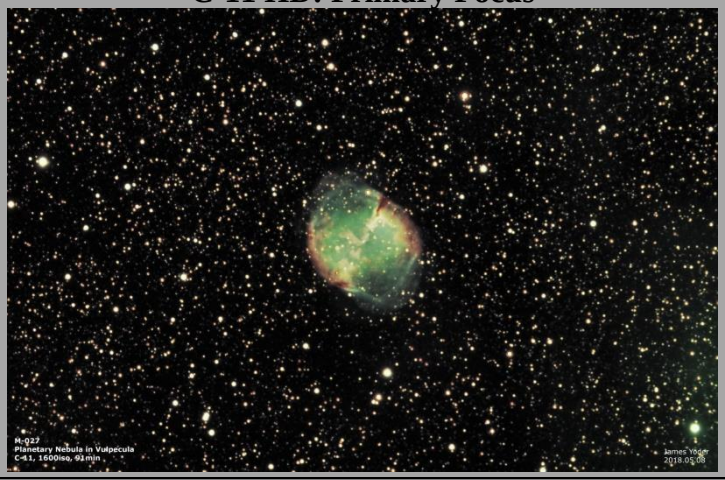
Dumbbell Nebula (M-27, NGC-6853)
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

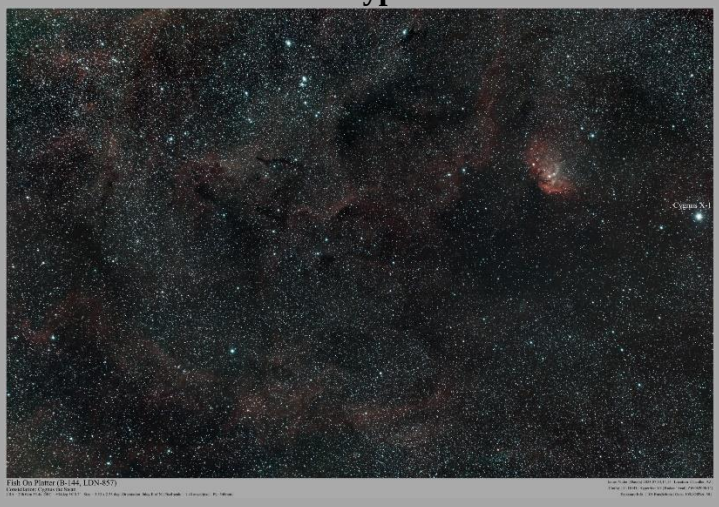
Constellation: **Vulpecula**
Coordinates:
19h 59’ 36”
22° 43’ 17”

Close Star: **SAO-125122** (Altair)
Catalog Objects: M-27/NGC-6853
Imaging Window: **08:56 – 02:51**
Transit: **11:28 | 79°**

C-11 HD: Primary Focus



Prospective Imaging Objects – August 04 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: **08:56 – 03:09** Transit: **11:26 | 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: **08:56 – 03:09** Transit: **11:26 | 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: **08:56 – 03:09** Transit: **11:26 | 89°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – August 04 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: **09:15 – 01:49**
Transit: **11:29 | 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: ***09:17 – 01:57**
Transit: **11:34 | 35°**

C-11 HD: Primary Focus

Crescent Nebula (NGC-6888)
Config: |C11HD|ZWO6200MC|

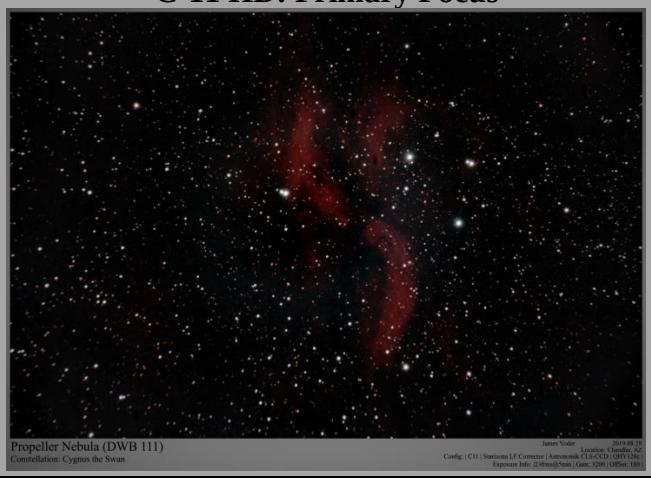
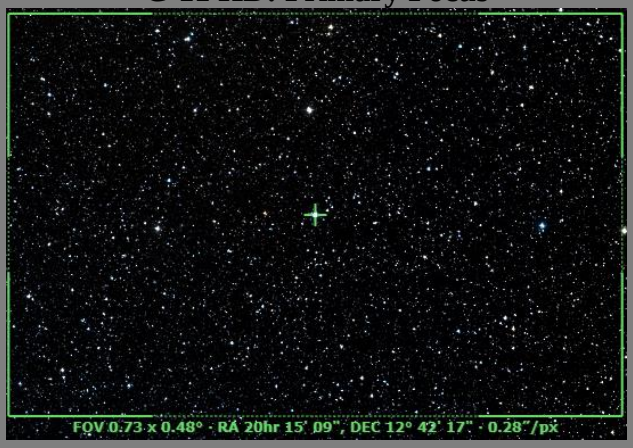
Type: **Diffuse Nebula**

Constellation: **Cygnus**
Coordinates:
20h 12’ 06”
38° 21’ 00”

Close Star: **SAO-125122** (Altair)
Catalog Objects: NGC-6888/Sh2-105
Imaging Window: **08:56 – 03:27**
Transit: **11:40 | 85°**

C-11 HD: Primary Focus

Prospective Imaging Objects – August 04 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: **08:56 – 03:32** Transit: **11:42 | 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: **08:56 – 02:42** Transit: **11:43 | 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: **08:56 – 03:21** Transit: **11:45 | 87°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – August 04 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: **08:56 – 02:58**
Transit: **11:48 | 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: **08:56 – 03:08**
Transit: **11:51 | 77°**

C-11 HD: Primary Focus

M-29 (NGC-6913)
Config: |C11HD|ZWO6200MC|

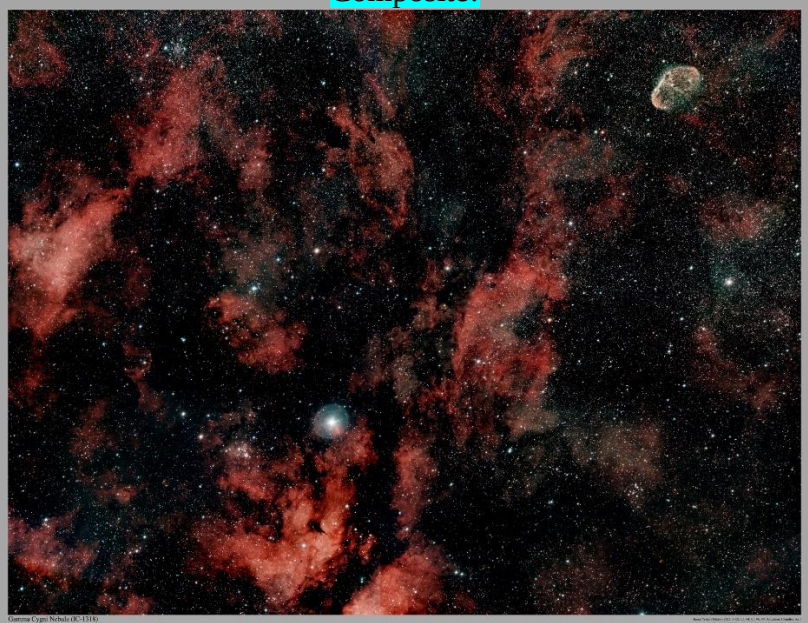
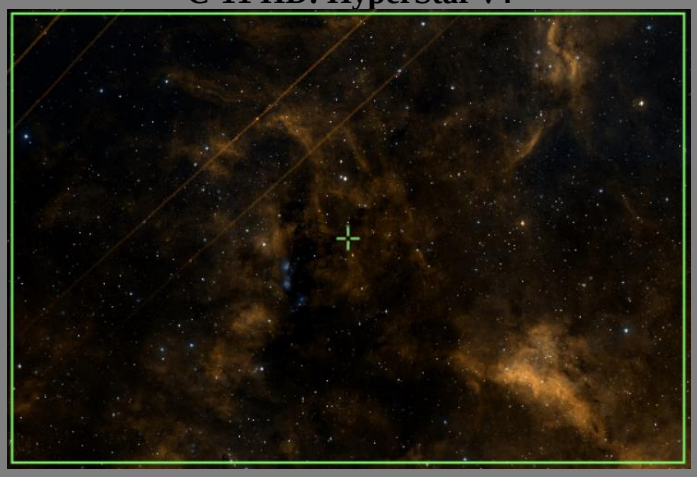
Type: **Open Cluster**

Constellation: **Cygnus**
Coordinates:
20h 24’ 06”
38° 29’ 36”

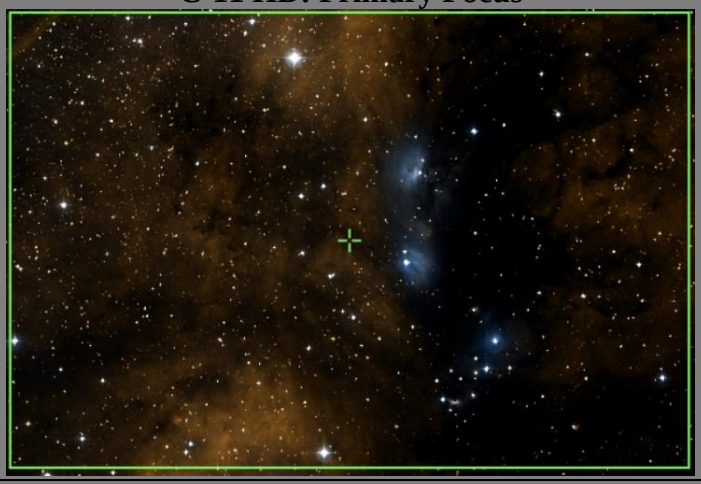
Close Star: **SAO-90981** (Scheat)
Catalog Objects: M-29/NGC-6913
Imaging Window: **08:56 – 03:39**
Transit: **11:52 | 85°**

C-11 HD: Primary Focus

Prospective Imaging Objects – August 04 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: **08:56 – 03:35** Transit: **11:45 | 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: **08:56 – 03:35** Transit: **11:45 | 81°**	**C-11 HD: HyperStar v4** 

Prospective Imaging Objects – August 04 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: **08:56 – 03:43** Transit: **11:53 | 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: **08:56 – 03:43** Transit: **11:53 | 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: **08:58 – 03:44** Transit: **11:56 | 80°**	**C-11 HD: HyperStar v4** 

Prospective Imaging Objects – August 04 2024

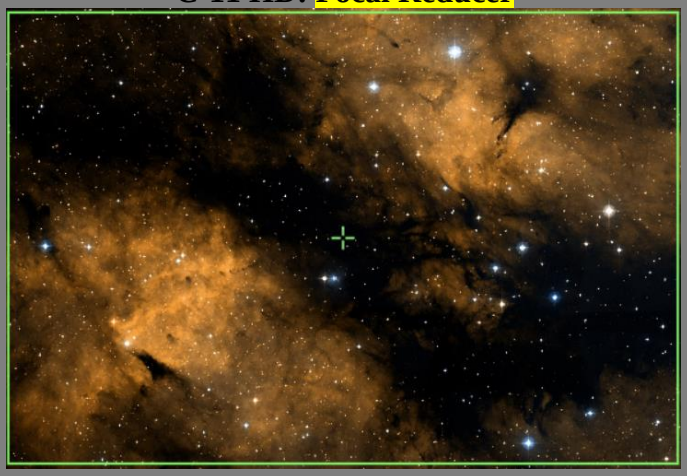
IC-1318B
Config: |C11-HD|FR|ZWO6200MC|

Type: **Bright Nebula**

Constellation: **Cygnus**
Coordinates:
20h 26’ 59”
40° 06’ 52”

Close Star: **SAO-67174** (Vega)
Catalog Objects: IC-1318B
Imaging Window: **08:58 – 03:44**
Transit: **11:56 | 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: **08:58 – 03:44**
Transit: **11:56 | 80°**

C-11 HD: Primary Focus

Fireworks Galaxy(NGC-6946)
Config: |C11HD|ZWO6200MC|

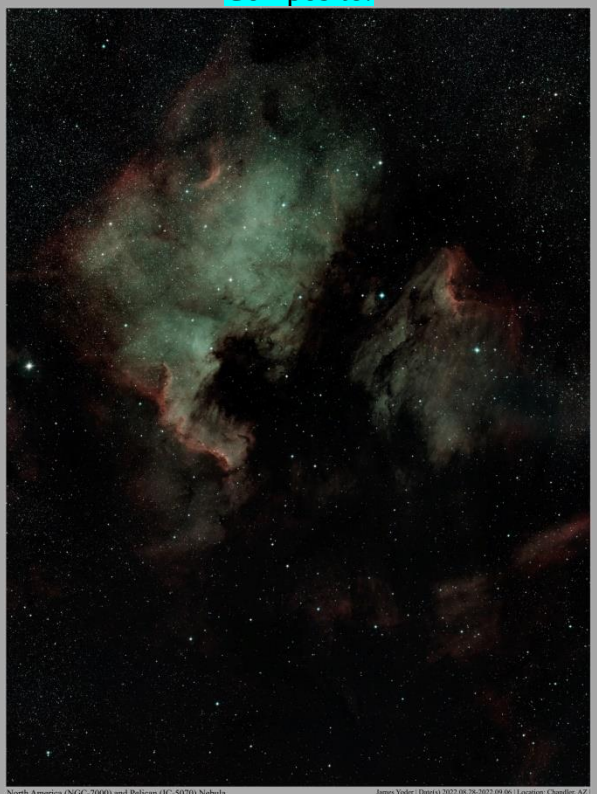
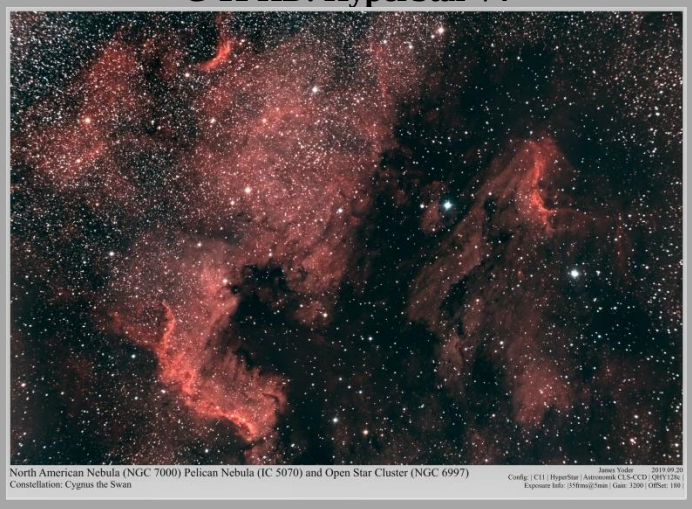
Type: **Galaxy**

Constellation: **Cepheus**
Coordinates:
20° 34’ 54”
60° 08’ 60”

Close Star: **SAO-19302** (Alderamin)
Catalog Objects: NGC-6946
Imaging Window: **08:56 – 03:51**
Transit: **12:03 | 63°**

C-11 HD: Primary Focus

Prospective Imaging Objects – August 04 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: **08:56 – 04:10** Transit: **12:19 | 79°**	**C-11 HD: HyperStar v4** Composite!  North America (NGC-7000) and Pelican (IC-5070) Nebula Constellation: Cygnus the Swan
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: **08:56 – 04:10** Transit: **12:19 | 79°**	**C-11 HD: HyperStar v4**  North American Nebula (NGC 7000) Pelican Nebula (IC 5070) and Open Star Cluster (NGC 6997) Constellation: Cygnus the Swan

Prospective Imaging Objects – August 04 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: **08:56 – 04:09**
Transit: **12:21 | 84°**

C-11 HD: HyperStar v4

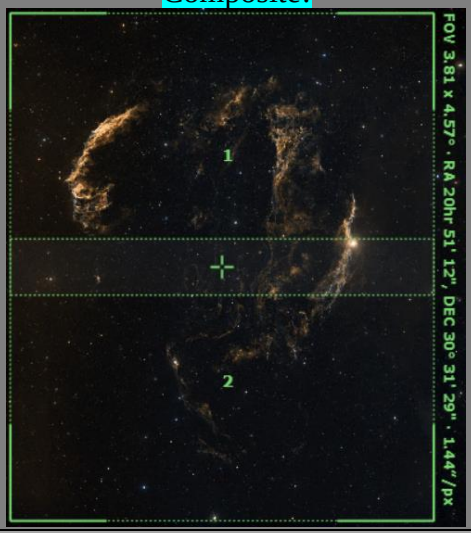
Veil Nebula (NGC-6960)
Config: **C11-HD | HS | ZWO6200MC**

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: **08:56 – 03:59**
Transit: **12:21 | 80°**

C-11 HD: HyperStar v4
Composite!



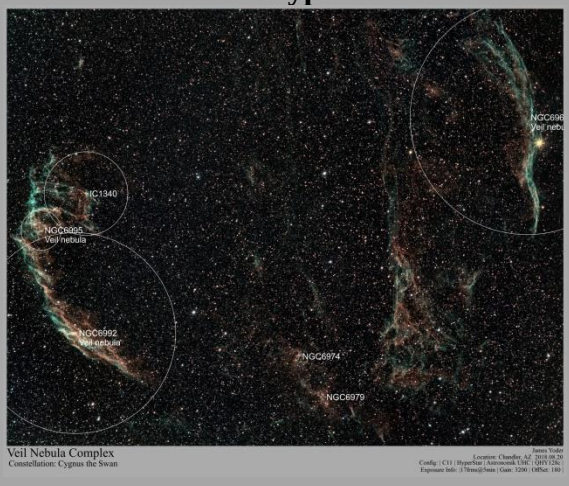
Veil Nebula (NGC-6960)
Config: **C11-HD | HS | ZWO6200MC**

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: **08:56 – 03:59**
Transit: **12:21 | 80°**

C-11 HD: HyperStar v4



Prospective Imaging Objects – August 04 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: **08:56 – 03:59**
Transit: **12:21 | 80°**

C-11 HD: Focal Reducer
Composite!

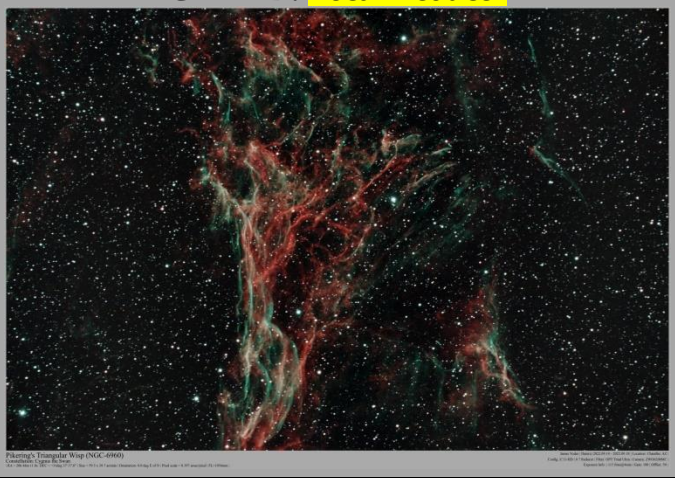
Pickering's Triangular Wisp
Config: |C11-HD|FR|ZWO6200MC|

Type: **Supernova Remnant**

Constellation: **Cygnus**
Coordinates:
20h 48' 16"
31° 37' 17"

Close Star: **SAO-70467** (52 Cygni)
Catalog Objects: NGC-6960
Imaging Window: **08:56 – 03:59**
Transit: **12:21 | 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: ***09:43 – 03:04**
Transit: **12:22 | 44°**

C-11 HD: Primary Focus

Prospective Imaging Objects – August 04 2024

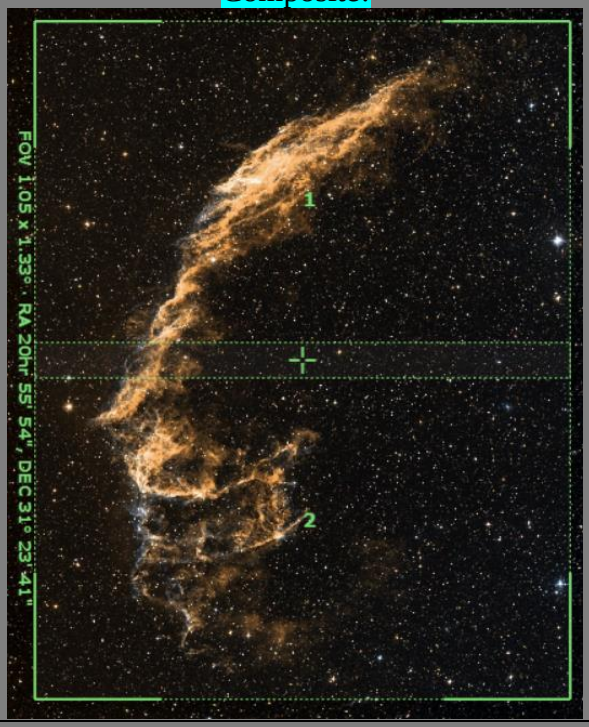
Network Nebula (NGC-6992)
Config: |C11-HD|FR|ZWO6200MC|

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: **10:56 – 04:03**
Transit: **12:24 | 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: ***09:47 – 03:10**
Transit: **12:27 | 44°**

C-11 HD: Primary Focus

Prospective Imaging Objects – August 04 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: **08:56 – 04:10**
Transit: **12:29 | 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: **09:11 – 03:55**
Transit: **12:30 | 55°**

C-11 HD: Focal Reducer

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

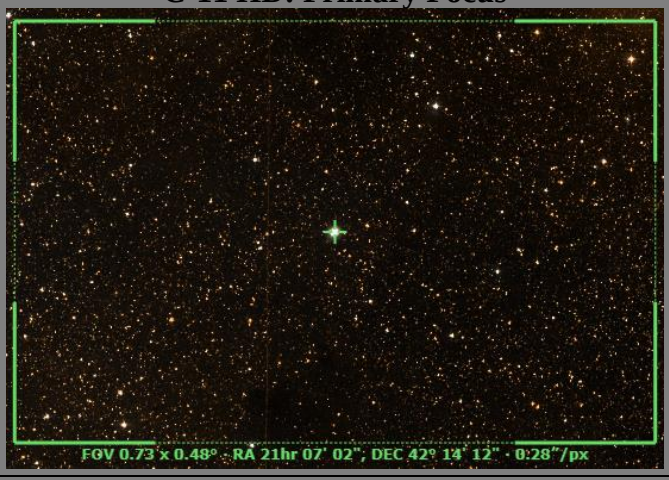
Type: **Bright Nebula**

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

Close Star: **SAO-19302** (Alderamin)
Catalog Objects: NGC-7023
Imaging Window: **09:11 – 03:55**
Transit: **12:30 | 55°**

C-11 HD: Primary Focus

Prospective Imaging Objects – August 04 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: ***09:47 – 03:23** Transit: **12:32 | 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: **08:56 – 04:10** Transit: **12:34 | 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: **08:56 – 04:10** Transit: **12:35 | 45°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – August 04 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: **08:56 – 04:10**
Transit: **12:42 | 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: **10:07 – 03:55**
Transit: **12:58 | 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: **09:13 – 04:10**
Transit: **01:00 | 75°**

C-11 HD: Focal Reducer

Prospective Imaging Objects – August 04 2024

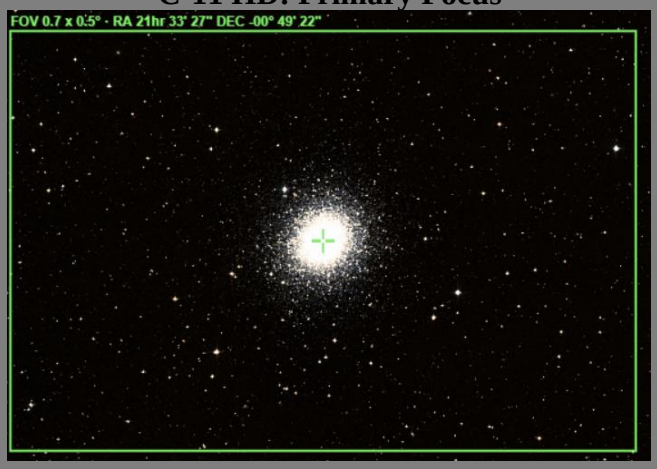
M-2 (NGC-7089)
Config: |C11HD|ZWO6200MC|

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: **11:01 – 03:09**
Transit: **01:01 | 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: **10:12 – 04:04**
Transit: **01:05 | 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”

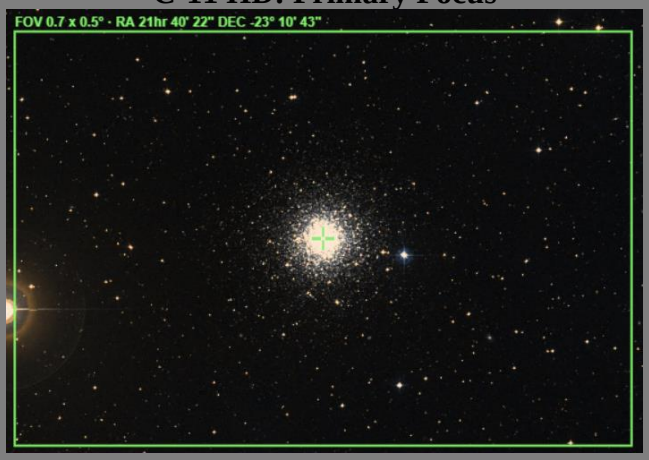
Close Star: **SAO-19302** (Alderamin)
Catalog Objects: IC-1396/Sh2-131
Imaging Window: **09:23 – 04:10**
Transit: **01:07 | 66°**

C-11 HD: HyperStar v4

Prospective Imaging Objects – August 04 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: **09:23 – 04:10** Transit: **01:07 | 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: **09:23 – 04:10** Transit: **01:07 | 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: **09:23 – 04:10** Transit: **01:07 | 66°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – August 04 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: **09:23 – 04:10** Transit: **01:07 | 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: **09:23 – 04:10** Transit: **01:07 | 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: ***10:54 – 03:26** Transit: **01:08 | 34°**	**C-11 HD: Primary Focus** 

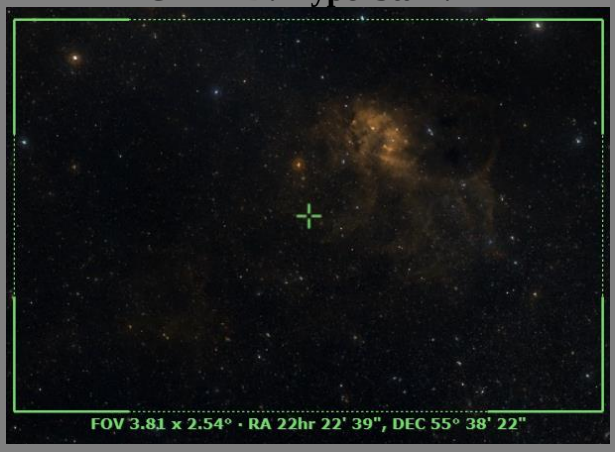
Prospective Imaging Objects – August 04 2024

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: **09:40 – 04:10** Transit: **01:14 | 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: **09:35 – 04:10** Transit: **01:21 | 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: **09:35 – 04:10** Transit: **01:21 | 76°**	**C-11 HD: Focal Reducer** 

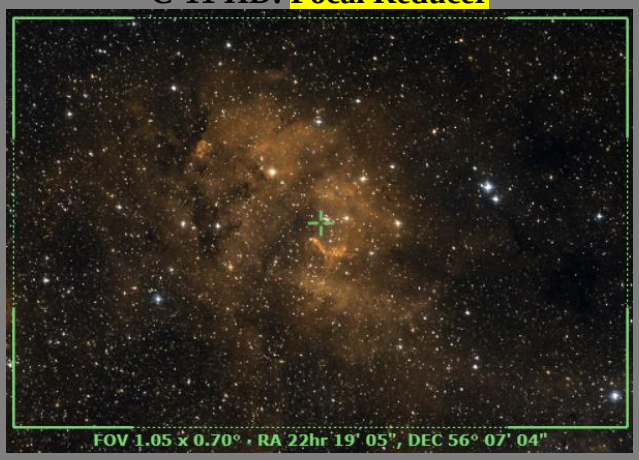
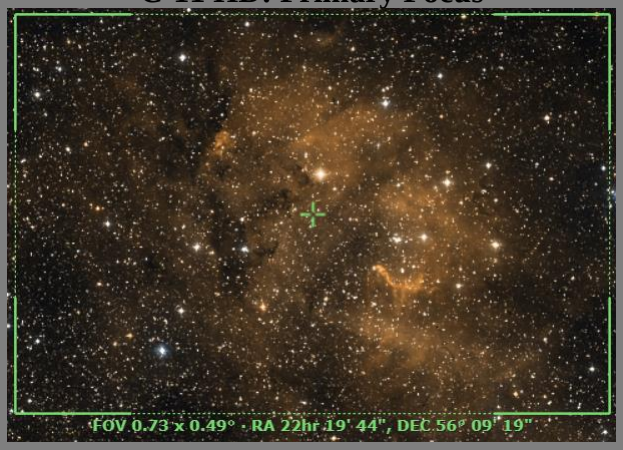
Prospective Imaging Objects – August 04 2024

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: **09:35 – 04:10** Transit: **01:21 | 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: **11:04 – 04:10** Transit: **01:43 | 50°**	**C-11 HD: Focal Reducer** 
Helix Nebula (NGC-7293) Config: |C11HD|ZWO6200MC| Type: **Planetary nebula** Constellation: **Aquarius** Coordinates: **22h 29’ 39”** **-20° 48’ 36”** Close Star: **SAO-164644** (Delta Cap) Catalog Objects: NGC-7293 Imaging Window: ***11:28 – 04:10** Transit: **01:57 | 36°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – August 04 2024

Wolf's Cave (VdB-152) Config: **C11-HD | HS | ZWO6200MC** Type: **Bright & Dark Nebula** Constellation: **Cepheus** Coordinates: **22h 17' 03"** **70° 21' 54"** Close Object: Cave Nebula (SH2-155) Close Star: **SAO-20268** (Iota Cephei) Catalog Objects: B-168, IC-5146 Imaging Window: **10:48 – 04:10** Transit: **02:25 | 76°**	**C-11 HD: HyperStar v4** 
Wolf's Cave (VdB-152) Config: |C11-HD|FR|ZWO6200MC| Type: **Bright & Dark Nebula** Constellation: **Cepheus** Coordinates: **22h 13' 42"** **70° 30' 32"** 90° Rotation Close Object: Cave Nebula (SH2-155) Close Star: **SAO-20268** (Iota Cephei) Catalog Objects: B-168, IC-5146 Imaging Window: **10:48 – 04:10** Transit: **02:25 | 76°**	**C-11 HD: Focal Reducer** 
SH2-132 Config: **C11-HD | HS | ZWO6200MC** Type: **Bright Nebula** Constellation: **Cepheus** Coordinates: **22h 22' 39"** **55° 38' 22"** Close Star: **SAO-20268** (Iota Cephei) Catalog Objects: SH2-132 Imaging Window: **10:02 – 04:10** Transit: **01:47 | 67°**	**C-11 HD: HyperStar v4** 

Prospective Imaging Objects – August 04 2024

SH2-132 Config: |C11-HD|FR|ZWO6200MC| Type: **Bright Nebula** Constellation: **Cepheus** Coordinates: **22h 19’ 05”** **56° 07’ 04”** Close Star: **SAO-20268** (Iota Cephei) Catalog Objects: SH2-132 Imaging Window: **10:02 – 04:10** Transit: **01:47 | 67°**	**C-11 HD: Focal Reducer** 
SH2-132 Config: |C11HD|ZWO6200MC| Type: **Bright Nebula** Constellation: **Cepheus** Coordinates: **22h 19’ 44”** **56° 09’ 19”** Close Star: **SAO-20268** (Iota Cephei) Catalog Objects: SH2-132 Imaging Window: **10:02 – 04:10** Transit: **01:47 | 67°**	**C-11 HD: Primary Focus** 
Stephan’s Quintet & NGC 7331 (NGC 7317, 7331) Config: |C11-HD|FR|ZWO6200MC| Type: **Bright Nebula** Constellation: **Pegasus** Coordinates: **22h 36’ 40”** **34° 13’ 25”** Camera Rotation = 115° East (-245) Close Star: **SAO-72191** (1 Lacertae) Catalog Objects: NGC7317, NGC7331 Imaging Window: **10:29 – 04:10** Transit: **02:04 | 89°**	**C-11 HD: Focal Reducer** 

Prospective Imaging Objects – August 04 2024

Stephan's Quintet
Config: |C11HD|ZWO6200MC|

Type: **Bright Nebula**

Constellation: **Pegasus**
Coordinates:
22h 36' 06"
33° 58' 01"

Close Star: **SAO-72191** (1 Lacertae)
Catalog Objects: NGC7317
Imaging Window: **10:29 – 04:10**
Transit: **02:04 | 89°**

C-11 HD: Primary Focus

NGC-7331 Group (NGC-7331)
Config: |C11HD|ZWO6200MC|

Type: **Galaxy Cluster**

Constellation: **Pegasus**
Coordinates:
22h 37' 15"
34° 24' 51"

Close Star: **SAO-72191** (1 Lacertae)
Catalog Objects: NGC-7331
Imaging Window: **10:30 – 04:10**
Transit: **02:05 | 89°**

C-11 HD: Primary Focus

Wizard Nebula (SH 2-142)

Config: |C11-HD|FR|ZWO6200MC|

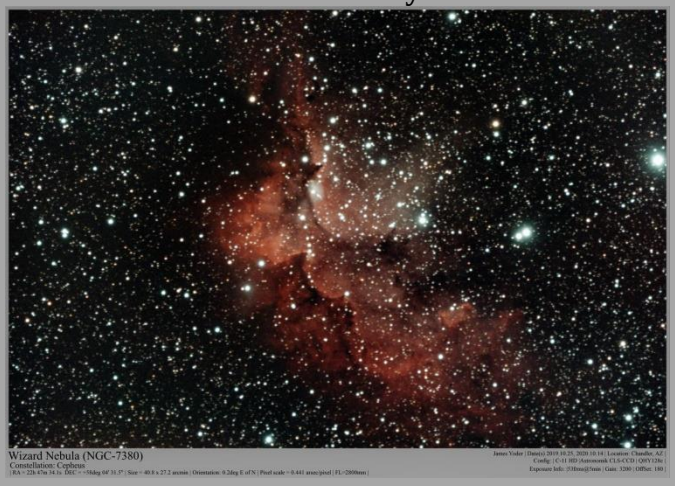
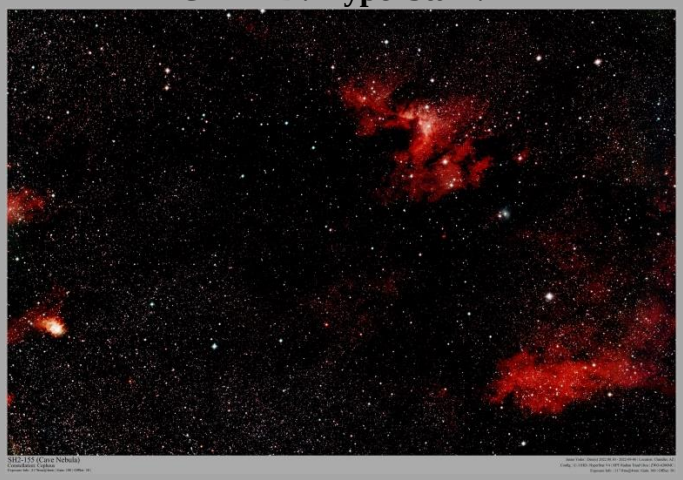
Type: **Diffuse Nebula**

Constellation: **Cepheus**
Coordinates:
22h 47' 26"
58° 03' 03"

Close Star: **SAO-20268** (Iota Cephei)
Catalog Objects: SH2-142
Imaging Window: **10:32 – 04:13**
Transit: **02:15 | 89°**

C-11 HD: Focal Reducer

Prospective Imaging Objects – August 04 2024

Wizard Nebula (SH 2-142) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Cepheus** Coordinates: **22h 47’ 26”** **58° 03’ 03”** Close Star: **SAO-20268** (Iota Cephei) Catalog Objects: SH2-142 Imaging Window: **10:32 – 04:13** Transit: **02:15 | 89°**	**C-11 HD: Primary Focus** 
Cave Nebula (SH2-155) Config: **C11-HD | HS | ZWO6200MC** Type: **Bright & Dark Nebula** Constellation: **Cepheus** Coordinates: **23h 00’ 57”** **62° 04’ 09”** Close Star: **SAO-20268** (Iota Cephei) Catalog Objects: SH2-155 Imaging Window: **10:48 – 04:10** Transit: **02:25 | 61°**	**C-11 HD: HyperStar v4** 
Cave Nebula (SH2-155) Config: |C11-HD|FR|ZWO6200MC| Type: **Bright & Dark Nebula** Constellation: **Cepheus** Coordinates: **22h 56’ 57”** **62° 31’ 33”** Close Star: **SAO-20268** (Iota Cephei) Catalog Objects: SH2-155 Imaging Window: **10:48 – 04:10** Transit: **02:25 | 61°**	**C-11 HD: Focal Reducer** 

Prospective Imaging Objects – August 04 2024

Cave Nebula (SH2-155)
Config: |C11HD|ZWO6200MC|

Type: **Bright & Dark Nebula**

Constellation: **Cepheus**
Coordinates:
22h 56’ 57”
62° 31’ 33”

Close Star: **SAO-20268** (Iota Cephei)
Catalog Objects: SH2-155
Imaging Window: **10:48 – 04:10**
Transit: **02:25 | 61°**

C-11 HD: Primary Focus

NGC-7479 (PGC-70419)
Config: |C11HD|ZWO6200MC|

Type: **Barred Spiral Galaxy**

Constellation: **Pegasus**
Coordinates:
23h 04’ 58”
12° 18’ 37”

Close Star: **SAO-127340** (Baham)
Catalog Objects: NGC-7479
Imaging Window: **11:42 – 04:10**
Transit: **02:33 | 62°**

C-11 HD: Primary Focus

Lobster Claw and Bubble Nebula (SH2-157)
Config: **C11-HD | HS | ZWO6200MC**

Type: **Diffuse Nebula**

Constellation: **Cassiopeia**
Coordinates:
23h 18’ 25.8”
60° 31’ 17.8”

Close Star: **SAO-21133** (Caph)
Catalog Objects: SH2-157, NGC-7635
Imaging Window: **11:03 – 04:10**
Transit: **02:44 | 63°**

C-11 HD: HyperStar v4

Prospective Imaging Objects – August 04 2024

Lobster Claw (SH2-157)
Config: |C11-HD|FR|ZWO6200MC|

Type: **Diffuse Nebula**

Constellation: **Cassiopeia**
Coordinates:
23h 16’ 00”
59° 57’ 32”

Close Star: **SAO-21133** (Caph)
Catalog Objects: SH2-157
Imaging Window: **11:03 – 04:10**
Transit: **02:44 | 63°**

C-11 HD: Focal Reducer

Bubble Nebula (NGC-7635)
Config: |C11HD|ZWO6200MC|

Type: **Bright & Dark Nebula**

Constellation: **Cepheus**
Coordinates:
23h 20’ 12”
61° 11’ 00”

Close Star: **SAO-21133** (Caph)
Catalog Objects: NGC-7635, SH2-162
Imaging Window: **11:09 – 04:10**
Transit: **03:49 | 62°**

C-11 HD: Primary Focus

Pegasus Cluster (NGC-7619)
Config: |C11-HD|FR|ZWO6200MC|

Type: **Cluster of Galaxies**

Constellation: **Pegasus**
Coordinates:
23h 20’ 13”
08° 11’ 08”

Close Star: **SAO-128085** (g Piscium)
Catalog Objects: NGC-7619
Imaging Window: **12:10 – 04:10**
Transit: **02:48 | 65°**

C-11 HD: Focal Reducer

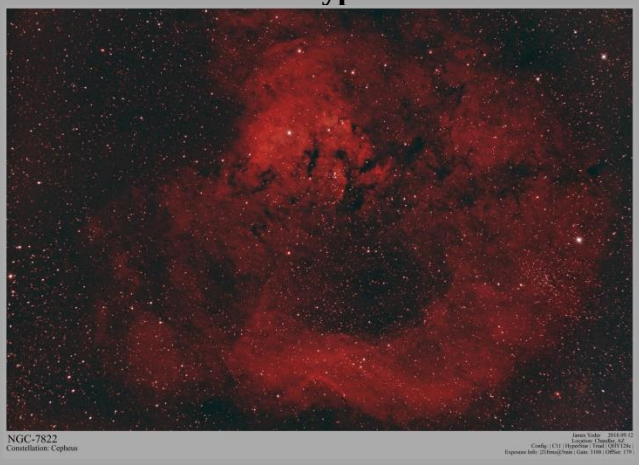
Prospective Imaging Objects – August 04 2024

Pegasus Cluster (NGC-7619) Config: |C11HD|ZWO6200MC| Type: **Cluster of Galaxies** Constellation: **Pegasus** Coordinates: **23h 20’ 13”** **08° 10’ 57”** Close Star: **SAO-128085** (g Piscium) Catalog Objects: NGC-7619 Imaging Window: **12:10 – 04:10** Transit: **02:48 | 65°**	**C-11 HD: Primary Focus** 
M-52 (NGC-7654) Config: |C11HD|ZWO6200MC| Type: **Open Cluster** Constellation: **Cassiopeia** Coordinates: **23h 24’ 48”** **61° 36’ 00”** Close Star: **SAO-21133** (Caph) Catalog Objects: M-52 Imaging Window: **11:14 – 04:10** Transit: **02:52 | 62°**	**C-11 HD: Primary Focus** 
Blue Snowball (NGC-7662) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Andromeda** Coordinates: **23h 25’ 54”** **42° 32’ 06”** Close Star: **SAO-53216** (Iota And) Catalog Objects: NGC-7662 Imaging Window: **11:10 – 04:10** Transit: **02:54 | 81°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – August 04 2024

Blue Match Nebula (SH2-155) Config: **C11-HD | HS | ZWO6200MC** Type: **Reflection Nebula** Constellation: **Andromeda** Coordinates: **23h 39’ 24”** **48° 51’ 37”** Nearby: NGC-7686 Close Star: **SAO-73765** (Alpheratz) Catalog Objects: VdB 158/ LBN 534 Imaging Window: **11:11 – 04:10** Transit: **02:57 | 81°**	**C-11 HD: HyperStar v4** 
Caroline’s Rose (NGC-7789) Config: |C11HD|ZWO6200MC| Type: **Open Cluster** Constellation: **Cassiopeia** Coordinates: **23h 57’ 37”** **56° 42’ 21”** Close Star: **SAO-21607** (Shedar) Catalog Objects: NGC-7789 Imaging Window: **11:40 – 04:10** Transit: **03:25 | 65°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – August 04 2024

NGC-7822 (Ced-214) Config: **C11-HD | HS | ZWO6200MC** Type: **Emission Nebula** Constellation: **Cepheus** Coordinates: Frame 01 RA: **00hr 03' 42"** DEC: **67° 41' 45"** Frame 02 RA: **00hr 03' 42"** DEC: **65° 35' 15"** Close Star: **SAO-10818** Catalog Objects: Ced 214, NGC 7822, SH2-171 Imaging Window: **12:07 – 04:10** Transit: **03:29 | 56°**	**C-11 HD: HyperStar v4** Composite! 
NGC-7822 (CED-214) Config: **C11-HD | HS | ZWO6200MC** Type: **Diffuse Nebula** Constellation: **Cepheus** Coordinates: **00h 01' 27"** **67° 28' 37"** Close Star: **SAO-20268** Catalog Objects: NGC-7822/CED-214 Imaging Window: **12:07 – 04:10** Transit: **03:29 | 56°**	**C-11 HD: HyperStar v4** 

Prospective Imaging Objects – August 04 2024

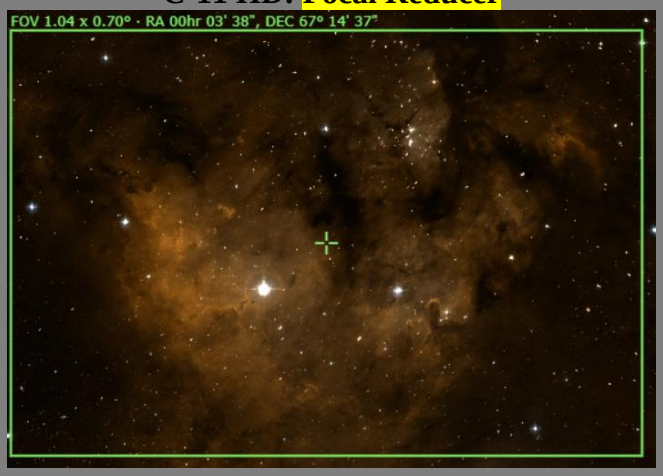
NGC-7822 (CED-214)
Config: |C11-HD|FR|ZWO6200MC|

Type: **Diffuse Nebula**

Constellation: **Cepheus**
Coordinates:
00h 03’ 38”
67° 14’ 37”

Close Star: **SAO-20268**
Catalog Objects: NGC-7822/CED-214
Imaging Window: **12:07 – 04:10**
Transit: **03:29 | 56°**

C-11 HD: Focal Reducer



NGC-7822 (CED-214)
Config: |C11HD|ZWO6200MC|

Type: **Emission Nebula**
Constellation: **Cepheus**
Coordinates:
00h 01’ 56”
67° 23’ 05”

Close Star: **SAO-10818**
Catalog Objects: Ced 214, NGC 7822, SH2-171
Imaging Window: **12:07 – 04:10**
Transit: **03:29 | 56°**

C-11 HD: Primary Focus

Bow-Tie Nebula (NGC-40)
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Cepheus**
Coordinates:
00h 13’ 01”
72° 31’ 21”

Close Star: **SAO-20268**
Catalog Objects: NGC-40
Imaging Window: **12:52 – 04:10**
Transit: **03:41 | 51°**

C-11 HD: Primary Focus

Prospective Imaging Objects – August 04 2024

Andromeda Galaxy Group

Config: |C11HD|ZWO6200MC|

Type: **Cluster of dim galaxies**
Peak:
Constellation: **Andromeda**
Coordinates:
00h 17’ 58”
30° 03’ 03”

Close Star: **SAO-73765** (Alpheratz)
Catalog Objects: NGC 67-72 et. El.

Imaging Window: **12:17 – 04:10**
Transit: **03:46 | 87°**

C-11 HD: Primary Focus

NGC-147 & NGC-185

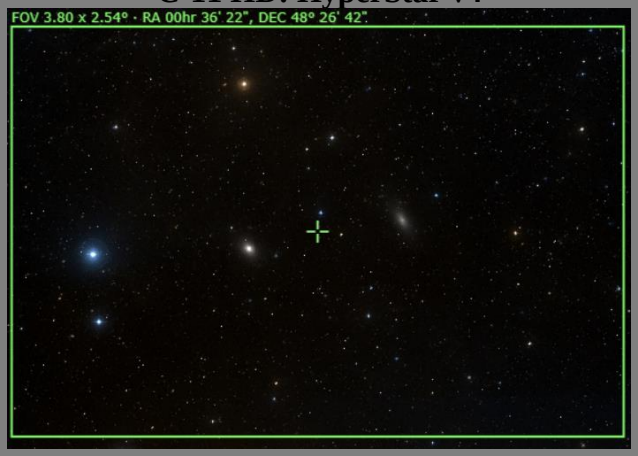
Config: **C11-HD | HS | ZWO6200MC**

Type: **Galaxy Pair**

Constellation: **Cassiopeia**
Coordinates:
00h 36’ 22”
48° 26’ 42”

Close Star: **SAO-21609 (Shedar)**
Catalog Objects: NGC-147, NGC-185
Imaging Window: **12:14 – 04:10**
Transit: **04:10 | 75°**

C-11 HD: HyperStar v4



NGC-147 & NGC-185

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

Type: **Galaxy Pair**

Constellation: **Cassiopeia**
Coordinates:
Frame 01
RA: **00hr 38’ 33”** DEC: **48° 25’ 44”**
Frame 02
RA: **00hr 33’ 21”** DEC: **48° 25’ 44”**

Close Star: **SAO-21609 (Shedar)**
Catalog Objects: NGC-147, NGC-185
Imaging Window: **12:14 – 04:10**
Transit: **04:01 | 75°**

C-11 HD: Focal Reducer
Composite!

Prospective Imaging Objects – August 04 2024

NGC-147

Config: |ZWO6200MC|

Type: **Galaxy**
Peak:
Constellation: **Cassiopeia**
Coordinates:
00h 33’ 07.245”
48° 30’ 18.030”

Close Star: **SAO-37375**
Catalog Objects: NGC-147

Imaging Window: **12:14 – 04:10**
Transit: **04:01 | 75°**

Primary Focus

NGC-185

Config: **C11-HD | ZWO6200MC**

Type: **Dwarf Spheroidal Galaxy**

Constellation: **Cassiopeia**
Coordinates:
00h 38’ 58”
48° 20’ 14”

Close Star: **SAO-21609 (Shedar)**
Catalog Objects: NGC-147
Imaging Window: **12:14 – 04:10**
Transit: **04:01 | 75°**

C-11 HD: Primary Focus

M-110

Config: **C11-HD | ZWO6200MC**

Type: **Elliptical Galaxy**

Constellation: **Andromeda**
Coordinates:
00h 40’ 22”
41° 41’ 07”

Close Star: **SAO-73765 (Sirrah)**
Catalog Objects: M-110
Imaging Window: **12:25 – 04:10**
Transit: **04:08 | 82°**

C-11 HD: Primary Focus

Prospective Imaging Objects – August 04 2024

M-32

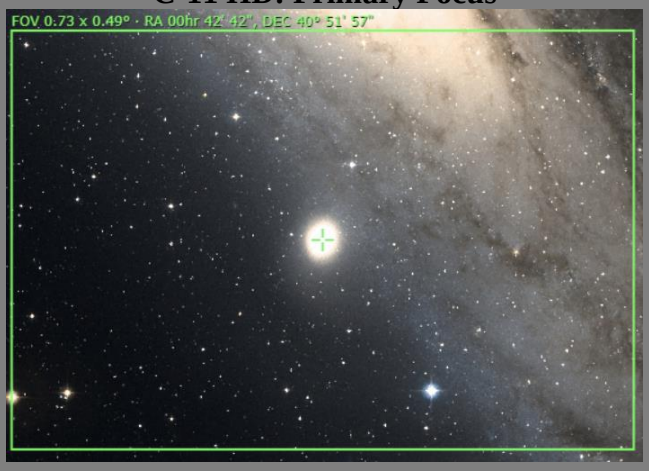
Config: **C11-HD | ZWO6200MC**

Type: **Elliptical Galaxy**

Constellation: **Andromeda**
Coordinates:
00h 42’ 42”
40° 51’ 57”

Close Star: **SAO-73765 (Sirrah)**
Catalog Objects: M-32
Imaging Window: **12:28 – 04:10**
Transit: **04:10 | 83°**

C-11 HD: Primary Focus



Andromeda Galaxy (M 31)

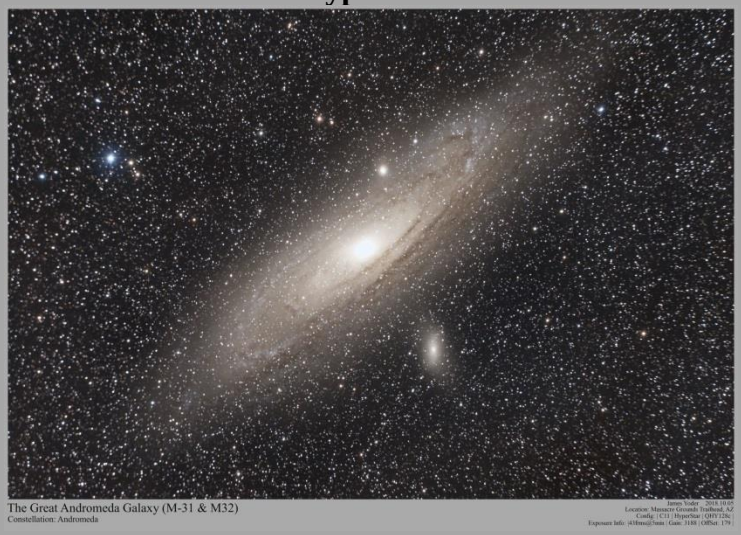
Config: |C11|HS|ZWO6200MCc|

Type: **Galaxy**
Peak: **Oct 1**
Constellation: **Andromeda**
Coordinates:
00h 43’ 03.089”
41° 18’ 37.05”

Close Star: **SAO-54281**
Catalog Objects: M-31, M-32, M-110, NGC-224, NGC-206

Imaging Window: **12:28 – 04:10**
Transit: **04:10 | 82°**

Hyperstar



M-31, M-32

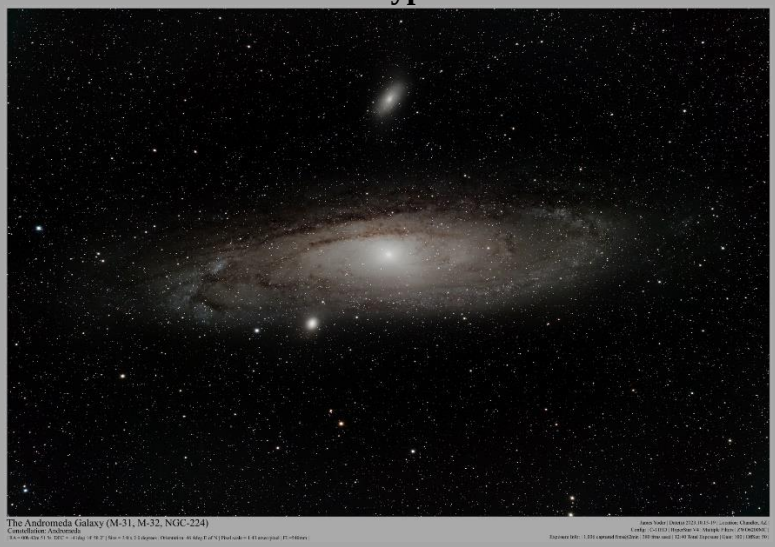
Config: **C11-HD | HS | ZWO6200MC**

Type: **Andromeda Galaxy**

Constellation: **Andromeda**
Coordinates:
00h 42’ 44”
41° 16’ 08”
Angle: **133° East**

Close Star: **SAO-73765 (Sirrah)**
Catalog Objects: M-31, M-32
Imaging Window: **12:28 – 04:10**
Transit: **04:10 | 82°**

C-11 HD: HyperStar v4



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Prospective Imaging Objects – August 04 2024

Imaging Summary August 04, 2024

Astronomical Dusk = 08:56 Astronomical Dawn = 04:10

HyperStar: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Nebula	Nebula	M-8	*08:56-11:39	09:32	04	Sagittarius: Lagoon Nebula
HyperStar	Nebula	Nebula	M-16	*08:56-12:57	09:47	09	Serpens: Eagle Nebula
HyperStar	Nebula	Nebula	M-17	*08:56-12:50	09:49	10	Sagittarius: Omega Nebula
HyperStar	Nebula	Nebula	NGC-6820	08:56 – 02:34	11:11	20	Vulpecula: Open Cluster & Nebula
HyperStar	Nebula	Nebula	B-144	08:56 – 03:09	11:26	23	Cygnus: Fish on the Platter Region
HyperStar	Nebula	Nebula	IC-1318 A & B	08:56 – 03:35	11:45	27	Comp2! Cygnus: Gama Cygni Nebula
HyperStar	Nebula	Nebula	IC-1318A	08:56 – 03:35	11:45	27	Cygnus: Bright Nebula Region of Interest
HyperStar	Nebula	Nebula	IC-1318B	08:58 – 03:44	11:56	28	Cygnus: Bright Nebula Region of Interest
HyperStar	Nebula	Nebula	IC-5070	08:56 – 04:10	12:19	30	Comp2!Cygnus: Pelican & N. American Nebula
HyperStar	Nebula	Nebula	IC-5070	08:56 – 04:10	12:19	30	Cygnus: Pelican & N. American Nebula
HyperStar	Nebula	DN	LDN-904	08:56 – 04:09	12:21	31	Cygnus: Northern Coal Sack
HyperStar	Nebula	Nebula	NGC-6960	08:56 – 03:59	12:21	31	Comp2! Cygnus: Veil Nebula
HyperStar	Nebula	Nebula	NGC-6960	08:56 – 03:59	12:21	31	Cygnus: Veil Nebula
HyperStar	Nebula	Nebula	IC-1396	09:23 – 04:10	01:07	37	Cepheus: Elephant Trunk
HyperStar	Nebula	DN, BN	B-168	09:35 – 04:10	01:21	40	Cygnus: Dark Cocoon
HyperStar	Nebula	Nebula	SH2-132	10:02 – 04:10	01:47	42	Cepheus: SH2-132
HyperStar	Nebula	Nebula	SH2-155	10:48 – 04:10	02:25	45	Cepheus: Cave Nebula
HyperStar	Nebula	Nebula	SH2-157	11:03 – 04:10	02:44	46	Cassiopeia: Lobster Claw and Bubble Nebula
HyperStar	Nebula	Nebula	LBN 534	11:11 – 04:10	02:57	49	Andromeda: Blue Match Nebula
HyperStar	Nebula	Nebula	NGC-7822	12:07 – 04:10	03:29	50	Comp2! Cepheus: NGC-7822 region
HyperStar	Nebula	Nebula	NGC-7822	12:07 – 04:10	03:29	50	Cepheus CED-214

Prospective Imaging Objects – August 04 2024

HyperStar: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Broad Spectrum	DN	IC-1283	*08:56-12:27	09:45	08	Comp2! Sagittarius: IC-1283 Region
HyperStar	Broad Spectrum	DN	B-138	08:56 – 12:58	10:42	17	Aquila: Barnard's Black Lizard
HyperStar	Broad Spectrum	DN	LDN-673	08:56 – 01:43	10:49	18	Aquila: Dark Nebula Area
HyperStar	Broad Spectrum	DN	LDN-772	08:56 – 02:17	10:53	18	Vulpecula: Lot Ness Monster
HyperStar	Broad Spectrum	DN	B-168	10:48 – 04:10	02:25	42	Cepheus: Wolf Cave
HyperStar	Broad Spectrum	Galaxy	M-31	12:28 – 04:10	04:10	54	Andromeda: Andromeda Galaxy

Prospective Imaging Objects – August 04 2024

Imaging Summary August 04, 2024

Astronomical Dusk = 08:56 Astronomical Dawn = 04:10

Focal Reducer: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Nebula	Nebula	M-20	*08:56-11:50	09:31	05	Sagittarius: Trifid Nebula
Focal Reducer	Nebula	Nebula	M-8	*08:56-11:39	09:32	05	Comp2! Sagittarius: Lagoon Nebula
Focal Reducer	Nebula	Nebula	M-8	*08:56-11:39	09:32	05	Sagittarius: Lagoon Nebula
Focal Reducer	Nebula	Nebula	IC-4685	*08:56-11:50	09:40	07	Rotation 90: Sagittarius: DN and Emission Nebula
Focal Reducer	Nebula	Nebula	IC-1274	*08:56-11:50	09:40	07	Sagittarius: Bright and Dark Nebula
Focal Reducer	Nebula	Nebula	M-16	*08:56-12:57	09:47	10	Serpens: Eagle Nebula
Focal Reducer	Nebula	Nebula	M-17	*08:56-12:50	09:49	11	Sagittarius: Omega Nebula
Focal Reducer	Nebula	Nebula	NGC-6820	08:56 – 02:34	11:11	20	Vulpecula: The Finger
Focal Reducer	Nebula	Nebula	SH2-101	08:56 – 03:09	11:26	23	Cygnus: Tulip Nebula
Focal Reducer	Nebula	Nebula	IC-1318 R1	08:56 – 03:43	11:53	28	Cygnus: IC-1318 Region of Interest
Focal Reducer	Nebula	Nebula	IC-1318B	08:58 – 03:44	11:556	29	Cygnus: IC-1318B Region of Interest
Focal Reducer	Nebula	Nebula	NGC-6960	08:56 – 03:59	12:21	32	Comp2! Cygnus: Witch's Broom
Focal Reducer	Nebula	Nebula	NGC-6960B	08:56 - 03:59	12:21	32	Cygnus: Pickering's Triangular Wisp
Focal Reducer	Nebula	Nebula	NGC-6992	10:56 – 04:03	12:24	33	Comp2! Cygnus: Network Nebula
Focal Reducer	Nebula	Nebula	IC-1396-1	09:23 – 04:10	01:07	38	Cepheus: Elephant Trunk ROI
Focal Reducer	Nebula	Nebula	IC-1396-2	09:23 – 04:10	01:07	38	Cepheus: Elephant Trunk ROI
Focal Reducer	Nebula	Nebula	IC-5146	09:35 – 04:10	01:21	40	Cygnus: Cocoon Nebula
Focal Reducer	Nebula	Nebula	SH2-132	10:02 – 04:10	01:47	43	Cepheus: Bright Nebula
Focal Reducer	Nebula	Nebula	SH2-142	10:32 – 04:13	02:15	44	Cepheus: Wizard Nebula
Focal Reducer	Nebula	Nebula	SH2-155	10:48 – 04:10	02:25	45	Cepheus: Cave Nebula
Foval Reducer	Nebula	Nebula	SH2-157	11:03 – 04:10	02:44	47	Cassiopeia: Lobster Claw

Prospective Imaging Objects – August 04 2024

Focal Reducer: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Broad Spectrum	OC, DN	M-24	*08:56-12:31	09:45	09	Sagittarius: Sagittarius Star Cloud
Focal Reducer	Broad Spectrum	DN	B-143	08:56 – 02:02	11:09	19	Aquila: Barnard's E
Focal Reducer	Broad Spectrum	RN	NGC-7023	09:11 – 03:55	12:30	34	Cepheus: Iris Nebula
Focal Reducer	Broad Spectrum	OC	M-39	09:13 – 04:10	01:00	36	Cygnus: Open Cluster NGC-7092
Focal Reducer	Broad Spectrum	DN	LDN-1235	11:04 – 04:10	01:43	41	Cepheus: Dark Shark
Focal Reducer	Broad Spectrum	DN	B-168	10:48 – 04:10	02:25	42	Cepheus: Wolf's Cave
Focal Reducer	Broad Spectrum	Galaxies	NGC7317	10:29 – 04:10	02:04	43	Pegasus: Stephan's Quintent & NGC-7331
Focal Reducer	Borad Spectrum	Galaxies	NGC-7619	12:10 – 04:10	02:48	47	Pegasus: Pegasus Cluster

Prospective Imaging Objects – August 04 2024

Imaging Summary August 04, 2024

Astronomical Dusk = 08:56 Astronomical Dawn = 04:10

Primary Focus: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	PN	NGC-6359	*08:56-11:13	08:58	02	Ophiuchus: Little Ghost
Primary Focus	Nebula	PN	NGC-6445	*08:56-11:54	09:18	03	Sagittarius: Box Nebula
Primary Focus	Nebula	PN	NGC-6543	08:56 – 12:58	09:27	04	Draco: Cat's Eye Nebula
Primary Focus	Nebula	Nebula	M-20	*08:56-11:50	09:31	05	Sagittarius: Trifid Nebula
Primary Focus	Nebula	Nebula	M-8	*08:56-11:39	09:32	06	Sagittarius: Lagoon Nebula
Primary Focus	Nebula	PN	NGC-6572	08:56 – 12:20	09:41	07	Ophiuchus: Emerald Nebula
Primary Focus	Nebula	Nebula	IC-1283	*08:56-12:27	09:45	09	Sagittarius: Nebula region NGC-6589
Primary Focus	Nebula	Nebula	M-17	*08:56-12:50	09:49	11	Sagittarius: Omega Nebula
Primary Focus	Nebula	PN	NGC-6629	*08:56-12:09	09:54	12	Sagittarius: Sm Planetary Nebula
Primary Focus	Nebula	PN	IC-4776	*08:56-11:50	10:14	14	Sagittarius: Sm Planetary Nebula
Primary Focus	Nebula	PN	M-57	08:56 – 02:02	10:22	15	Lyra: Ring Nebula
Primary Focus	Nebula	PN	Abell-50	08:56 – 02:21	10:28	16	Draco: Med Planetary Nebula
Primary Focus	Nebula	PN	NGC-6751	*08:56-01:46	10:34	16	Aquila: Dandelion Puffball Nebula (Sm)
Primary Focus	Nebula	PN	NGC-6772	*08:56-02:34	10:43	16	Aquila: Med Planetary Nebula
Primary Focus	Nebula	PN	NGC-6778	08:56 – 12:50	10:47	17	Aquila: Small Planetary Nebula
Primary Focus	Nebula	PN	NGC-6781	08:56 – 01:26	10:47	18	Aquila: Med Planetary Nebula
Primary Focus	Nebula	PN	NGC-6804	08:56 – 01:48	11:00	19	Aquila: Small Planetary Nebula
Primary Focus	Nebula	Nebula	NGCC-6820	08:56 – 02:34	11:11	20	Vulpecula: The Finger
Primary Focus	Nebula	PN	NGC-6818	*08:56-02:19	11:12	21	Sagittarius: Little Gem
Primary Focus	Nebula	PN	NGC-6826	08:56 – 03:07	11:13	21	Cygnus: Blinking Planetary
Primary Focus	Nebula	PN	NGC-6842	08:56 – 02:58	11:23	22	Vulpecula: Sm-Med Planetary Nebula
Primary Focus	Nebula	PN	M-27	08:56 – 02:51	11:28	22	Vulpecula: Dumbbell Nebula
Primary Focus	Nebula	Nebula	SH2-101	08:56 – 03:09	11:26	23	Cygnus: Tulip Nebula
Primary Focus	Nebula	PN	NGC-6852	09:15 – 01:49	11:29	24	Aquila: Small Planetary Nebula

Prospective Imaging Objects – August 04 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	Nebula	NGC-6888	08:56 – 03:27	11:40	24	Cygnus: Crescent Nebula
Primary Focus	Nebula	Nebula	DWB-111	08:56 – 03:32	11:42	25	Cygnus: Propeller Nebula
Primary Focus	Nebula	PN	NGC-6891	08:56 – 02:42	11:43	25	Delphinus: Small Planetary Nebula
Primary Focus	Nebula	PN	NGC-5894	08:56 – 03:21	11:45	25	Cygnus: Little Ring Nebula (Sm-Med)
Primary Focus	Nebula	PN	IC-4997	08:56 – 02:58	11:48	26	Sagitta: Small PN
Primary Focus	Nebula	PN	NGC-6905	08:56 – 03:08	11:51	26	Delphinus: Blue Flash Nebula
Primary Focus	Nebula	BN	IC-1318-1	08:56 – 03:43	11:53	28	Cygnus: Region of interest in IC-1318
Primary Focus	Nebula	BN	IC-1318B	08:58 – 03:44	11:56	29	Cygnus: Region of interest in IC-1318B
Primary Focus	Nebula	PN	NGC-7008	08:56 – 04:10	12:29	34	Cygnus: Fetus Nebula
Primary Focus	Nebula	PN	NGC-7009	*09:47-03:23	12:32	35	Aquarius: Saturn Nebula
Primary Focus	Nebula	PN	NGC-7026	08:56 – 04:10	12:34	35	Cygnus: Small PN
Primary Focus	Nebula	PN	NGC-7027	08:56 – 04:10	12:35	35	Cygnus: Small PN
Primary Focus	Nebula	PN	NGC-7048	08:56 – 04:10	12:42	36	Cygnus: Med PN
Primary Focus	Nebula	PN	NGC-7094	10:12 – 04:04	01:05	37	Pegasus: Med PN
Primary Focus	Nebula	DN	IC-1396-1	09:23 – 04:10	01:07	38	Cepheus: Elephant Trunk ROI
Primary Focus	Nebula	BN	IC-1396-2	09:23 – 04:10	01:07	39	Cepheus: Elephant Trunk RIO
Primary Focus	Nebula	BN	IC-1396-3	09:23 – 04:10	01:07	39	Cepheus: Elephant Trunk RIO
Primary Focus	Nebula	PN	NGC-7139	09:40 – 04:10	01:14	40	Cepheus: Med/Lrg Planetary
Primary Focus	Nebula	BN	IC-5146	09:35 – 04:10	01:21	41	Cygnus: Cocoon Nebula
Primary Focus	Nebula	PN	NGC-7293	*11:28-04:10	01:57	41	Aquarius: Helix Nebula
Primary Focus	Nebula	Nebula	SH2-132	10:02 – 04:10	01:47	43	Cepheus: Bright Nebula
Primary Focus	Nebula	Nebula	SH2-142	10:32 – 04:13	02:15	45	Cepheus: Wizard Nebula
Primary Focus	Nebula	Nebula	SH2-155	10:48 – 04:10	02:25	46	Cepheus: Cave Nebula
Primary Focus	Nebula	Nebula	NGC-7635	11:09 – 04:10	03:49	47	Cepheus: Bubble Nebula
Primary Focus	Nebula	Nebula	NGC-7662	11:10 – 04:10	02:54	48	Andromeda: Blue Snowball
Primary Focus	Nebula	Nebula	NGC-7822	12:07 – 04:10	03:29	51	Cepheus: Emission Nebula Ced 214
Primary Focus	Nebula	PN	NGC-40	12:52 – 04:10	03:41	51	Cepheus: Bow-Tie Nebula

Prospective Imaging Objects – August 04 2024

Imaging Summary August 04, 2024

Astronomical Dusk = 08:56 Astronomical Dawn = 04:10

Primary Focus: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Globular	M-14	08:56 – 11:00	09:06	02	Ophiuchus: Med Globular NGC-6402
Primary Focus	Broad Spectrum	OC	M-6	*08:56-10:50	09:09	02	Scorpius: Butterfly Cluster
Primary Focus	Broad Spectrum	DN	B-84	*08:56-11:54	09:15	03	Sagittarius: Praying Matis Nebula
Primary Focus	Broad Spectrum	OC	M-7	*08:56-10:28	09:22	03	Scorpius: Ptolemy Cluster
Primary Focus	Broad Spectrum	OC	M-23	*08:56-12:12	09:26	04	Sagittarius: Open Cluster NGC-6494
Primary Focus	Broad Spectrum	OC	M-21	*08:56-11:50	09:33	06	Sagittarius: Open Cluster NGC-6531
Primary Focus	Broad Spectrum	DN	B-93	*08:56-12:31	09:45	08	Sagittarius: Dark Nebula LDN-327
Primary Focus	Broad Spectrum	OC	M-18	*08:56-12:42	09:48	10	Sagittarius: Open Cluster NGC-66133
Primary Focus	Broad Spectrum	GC	M-28	*08:56-11:54	09:53	11	Sagittarius: Med Globular NGC-6626
Primary Focus	Broad Spectrum	OC	NGC-6633	08:56 – 12:35	09:56	12	Ophiuchus: Open Cluster NGC-6633
Primary Focus	Broad Spectrum	GC	M-69	*08:56-11:50	10:00	12	Sagittarius: Med Globular NGC-6637
Primary Focus	Broad Spectrum	OC	M-25	*08:56-12:42	10:00	13	Sagittarius: Open Cluster IC-4725
Primary Focus	Broad Spectrum	GC	M-22	*08:56-12:20	10:05	13	Sagittarius: Med Globular NGC-6656
Primary Focus	Broad Spectrum	GC	M-70	*08:56-12:01	10:12	13	Sagittarius: Sm Globular NGC-6681
Primary Focus	Broad Spectrum	OC	M-26	*08:56-01:12	10:14	14	Sagittarius: Open Cluster NGC-6694
Primary Focus	Broad Spectrum	DN	B-104	*08:56-01:34	10:16	14	Scutum: Check mark
Primary Focus	Broad Spectrum	OC	M-11	*08:56-01:57	10:20	15	Scutum: Wild Duck Cluster
Primary Focus	Broad Spectrum	GC	M-54	*09:25-11:28	10:23	15	Sagittarius: Med Globular
Primary Focus	Broad Spectrum	GC	M-56	08:56 – 02:21	10:45	17	Lyra: Med Globular
Primary Focus	Broad Spectrum	GC	M-55	*10:39-12:01	11:08	19	Sagittarius: Large Globular
Primary Focus	Broad Spectrum	Galaxy	NGC-6822	*08:56-02:15	11:13	21	Sagittarius: Barnard's Galaxy (Large Galaxy)
Primary Focus	Broad Spectrum	GC	M-71	08:56 – 02:36	11:22	22	Sagitta: Med Globular
Primary Focus	Broad Spectrum	GC	M-75	*09:17-10:57	11:34	4	Sagittarius: Med Globular
Primary Focus	Broad Spectrum	OC	M-29	08:56 -03:39	11:52	26	Cygnus: Open Cluster in Cygnus

Prospective Imaging Objects – August 04 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	NGC-6946	08:56 – 03:51	12:03	29	Cepheus: Fireworks Galaxy (Large Face On)
Primary Focus	Broad Spectrum	GC	M-72	*09:43-03:04	12:22	32	Aquarius: Medium Globular
Primary Focus	Broad Spectrum	OC	M-73	*09:47-03:10	12:27	33	Aquarius: Open Cluster NGC-6994
Primary Focus	Broad Spectrum	RN	NGC-7023	09:11 – 03:55	12:30	34	Cepheus: Iris Nebula
Primary Focus	Broad Spectrum	GC	M-15	10:07 – 03:55	12:58	36	Pegasus: Pegasus Cluster
Primary Focus	Broad Spectrum	GC	M-2	11:01 – 03:09	01:01	37	Aquarius: Large Globular
Primary Focus	Broad Spectrum	GC	M-30	*10:57-03:26	01:08	39	Capricornus: Med Globular
Primary Focus	Broad Spectrum	Galaxies	NGC-7317	10:29 – 04:10	02:04	44	Pegasus: Stephan’s Quintet
Primary Focus	Broad Spectrum	Galaxies	NGC-7331	10:30 – 04:10	02:05	44	Pegasus: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	NGC-7479	11:42 – 04:10	02:33	46	Pegasus: Face on Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-7619	12:10 – 04:10	02:48	48	Pegasus: Pegasus Cluster
Primary Focus	Broad Spectrum	OC	M-52	11:14 – 04:10	02:52	48	Cassiopeia: Open Cluster NGC-7654
Primary Focus	Broad Spectrum	OC	NGC-7789	11:40 – 04:10	03:25	49	Cassiopeia: Caroline’s Rose
Primary Focus	Broad Spectrum	Galaxies	NGC 67-72	12:17 – 04:10	03:46	52	Andromeda: Andromeda Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	NGC-147	12:14 – 04:10	04:01	53	Cassiopeia: Dwarf Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-185	12:14 – 04:10	04:01	53	Cassiopeia: Dwarf Spheroidal Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-110	12:25 – 04:10	04:08	53	Andromeda: Elliptical Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-32	12:28 – 04:10	04:10	54	Andromeda: Companion to M-31
Primary Focus	Broad Spectrum						

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Imaging Summary August 04, 2024

Astronomical Dusk = 08:56 Astronomical Dawn = 04:10

Primary Prospects

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	HyperStar	Broadband	DN	IC-1283	*08:56-12:27	09:45	08	Comp2! Sagittarius: DNebula NGC-6589
	HyperStar	Nebula	Nebula	M-17	*08:56-12:50	09:49	10	Sagittarius: Omega Nebula
	HyperStar	Broadband	DN	B-138	08:56 – 12:58	10:42	17	Aquila: Barnard's Black Lizard
	HyperStar	Broadband	DN	LDN-673	08:56 – 01:43	10:49	18	Aquila: Dark Nebula
	HyperStar	Nebula	Nebula	NGC-6820	08:56 – 02:34	11:11	20	Vulpecula: Nebula Region
	HyperStar	Nebula	Nebula	IC-1318A	08:56 – 03:35	11:45	27	Cygnus: Cygnus ROI
	HyperStar	Nebula	Nebula	IC-1318B	08:58 – 03:44	11:56	28	Cygnus: Cygnus ROI
	HyperStar	Nebula	DN	LDN-904	08:56 – 04:09	12:21	31	Cygnus: Northern Coal Sack
	HyperStar	Nebula	Nebula	NGC-5960	08:56 – 03:59	12:21	31	Comp2! Cygnus: Veil Nebula
	HyperStar	Nebula	BN & DN	B-168	09:35 – 04:10	01:21	40	Cygnus: Dark Cocoon
	HyperStar	Nebula	Nebula	SH2-132	10:02 – 04:10	01:47	42	Cepheus: Bright Nebula
	HyperStar	Nebula	Nebula	SH2-155	11:11 – 044:10	02:57	49	Andromeda: Blue Match Nebula
	HyperStar	Broadband	OC	NGC-7789	11:40 – 04:10	03:25	49	Cassiopeia: Caroline's Rose
	HyperStar							
	HyperStar							
	HyperStar							
	HyperStar							
	HyperStar	Nebula						
	Focal Reducer	Nebula	Neb, DN	IC-4685	*08:56-11:50	09:40	07	Rot90 Sagittarius: Bright and Dark nebula
	Focal Reducer	Nebula	Nebula	M-16	*08:56-12:57	09:47	10	Serpens: Eagle Nebula
	Focal Reducer	Nebula	Nebula	M-17	*08:56-12:50	09:49	11	Sagittarius: Omega Nebula
	Focal Reducer	Broadband	DN	B-143	08:56 – 02:02	11:09	19	Aquila: Barnard's E
	Focal Reducer	Nebula	Nebula	SH2-101	08:56 – 03:09	11:26	23	Cygnus: Tulip Nebula
	Focal Reducer	Nebula	Nebula	IC-1318B	08:56 – 03:43	11:53	28	Cygnus: IC-1318B

Prospective Imaging Objects – August 04 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Focal Reducer	Nebula	Nebula	NGC-6992	10:556 – 04:03	12:24	33	Comp2! Cygnus: Network Nebula
	Focal Reducer	Nebula	RN	NGC-7023	09:11 – 03:55	12:30	34	Cepheus: Iris Nebula
	Focal Reducer	Nebula	Nebula	IC-1396	09:23 – 04:10	01:07	38	Cepheus: Elephant Trunk RIO1
	Focal Reducer	Nebula	Nebula	IC-1396	09:23 – 04:10	01:07	38	Cepheus: Elephant Trunk RIO2
	Focal Reducer	Nebula	BN & DN	IC-5146	09:35 – 04:10	01:21	40	Cygnus: Cocoon Nebula
	Focal Reducer	Nebula	Nebula	SH2-132	10:02 – 04:10	01:47	43	Cepheus: Bright Nebula
	Focal Reducer	Broadband	Galaxies	NGC7331 et. El.	10:29 – 04:10	02:04	43	Rot! Peg: Stephan's Quintet & NGC7331
	Focal Reducer	Nebula	Nebula	SH2-142	10:32 – 04:13	02:15	44	Cepheus: Wizard Nebula
	Focal Reducer	Nebula	Nebula	SH2-155	10:48 – 04:10	02:25	45	Cepheus: Cave Nebula
	Focal Reducer	Nebula	Nebula	SH2-157	11:03 – 04:10	02:44	47	Cassiopeia: Lobster Claw ROI
	Focal Reducer	Broadband	Galaxies	NGC-7619	12:10 – 04:10	02:48	47	Pegasus: Pegasus Cluster
	Focal Reducer	Nebula	Nebula	NGC-7822	12:07 – 04:10	03:29	51	Cepheus: CED-214
	Focal Reducer							
	Primary Focus	Nebula	PN	NGC-6369	*08:56-11:13	08:58	02	Ophiuchus: Little Ghost
	Primary Focus	Broadband	DN	B-93	*08:56-12:31	09:45	08	Sagittarius: Dark Nebula LDN-327
	Primary Focus	Nebula	Nebula	IC-1283	*08:56-12:27	09:45	09	Sagittarius: Diffuse Nebula NGC-6589
	Primary Focus	Broadband	GC	M-28	*08:56-11:54	09:553	11	Sagittarius: Med GC NGC-6626
	Primary Focus	Nebula	PN	NGC-6629	*08:56-12:09	09:54	12	Sagittarius: Small PN
	Primary Focus	Broadband	GC	M-69	*08:56-11:50	10:00	12	Sagittarius: Sm-Med Globular NGC-6637
	Primary Focus	Broadband	GC	M-70	*08:56-12:01	10:12	13	Sagittarius: Sm/Med Globular NGC-6681
	Primary Focus	Nebula	PN	IC-4776	*08:56-11:50	10:14	14	Sagittarius: Small PN
	Primary Focus	Broadband	DN	B-104	*08:56-01:34	10:16	14	Scutum: Checkmark DN
	Primary Focus	Nebula	PN	Abell-50	08:56 – 02:21	10:28	16	Draco: Med Planetary Nebula
	Primary Focus	Nebula	PN	NGC-6751	*08:56-01:46	10:34	16	Aquila: Small Planetary Nebula
	Primary Focus	Nebula	PN	NGC-6772	*08:56-02:34	10:43	16	Aquila: Med Planetary Nebula
	Primary Focus	Broadband	GC	M-56	08:56 – 02:21	10:45	17	Lyra: Med Globular
	Primary Focus	Nebula	PN	NGC-6781	08:56 – 01:26	10:47	18	Aquila: Med Planetary Nebula

Prospective Imaging Objects – August 04 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Primary Focus	Nebula	PN	NGC-6804	08:56 – 01:48	11:00	19	Aquila: Small Planetary Nebula
	Primary Focus	Broadband	GC	M-55	*10:39 – 12:01	11:08	19	Sagittarius: Large Globular
	Primary Focus	Nebula	Nebula	NGC-6820	08:56 – 02:34	11:11	20	Vulpecula: The Finger
	Primary Focus	Nebula	PN	NGC-6826	08:56 – 03:07	11:13	21	Cygnus: Blinking Planetary
	Primary Focus	Broadband	Galaxy	NGC-6822	*08:56-02:15	11:13	21	Sagittarius: Barnard's Galaxy
	Primary Focus	Broadband	GC	M-71	08:56 – 02:36	11:22	22	Sagitta: Med Globular
	Primary Focus	Nebula	PN	NGC-6842	08:56 – 02:58	11:23	22	Vulpecula: Sm/Med Planetary Nebula
	Primary Focus	Nebula	Nebula	Sh2-101	08:56 – 03:09	11:26	23	Cygnus: Tulip Nebula
	Primary Focus	Broadband	GC	M-75	09:15 – 01:49	11:29	24	Sagittarius: Med Globular
	Primary Focus	Nebula	Nebula	NGC-6888	08:56 – 03:27	11:40	24	Cygnus: Crescent Nebula
	Primary Focus	Nebula	Nebula	NGC-6894	08:56 – 03:21	11:45	25	Cygnus: Sm/Med Planetary Nebula
	Primary Focus	Broadband	Galaxy	NGC-6946	08:56 – 03:51	12:03	29	Cepheus: Fireworks Galaxy
	Primary Focus	Broadband	Globular	M-72	*09:43-03:04	12:22	32	Aquarius: Med Globular NGC-6981
	Primary Focus	Nebula	PN	NGC-7009	*09:47-03:23	12:32	35	Aquarius: Saturn Nebula
	Primary Focus	Nebula	PN	NGC-7027	08:56 – 04:10	12:35	35	Cygnus: Small PN
	Primary Focus	Nebula	PN	NGC-7048	08:56 – 04:10	12:42	36	Cygnus: Sm/med PN
	Primary Focus	Broadband	Globular	M-2	11:01 – 03:09	01:01	37	Aquarius: Large GC NGC-7089
	Primary Focus	Nebula	PN	NGC-7094	10:12 – 04:04	01:05	37	Pegasus: sm/med PN
	Primary Focus	Nebula	DN	IC-1396	09:23 – 04:10	01:07	38	Cepheus: Dark Nebula
	Primary Focus	Nebula	Nebula	IC-1396	09:23 – 04:10	01:07	39	Cepheus: Elephant Trunk RIO 1
	Primary Focus	Nebula	Nebula	IC-1396	09:23 – 04:10	01:07	39	Cepheus: Elephant Trunk RIO 2
	Primary Focus	Broadband	Globular	M-30	*10:54-03:26	01:08	39	Capricornus: Med Globular NGC-7099
	Primary Focus	Nebula	Nebula	SH2-132	10:02 – 04:10	01:47	43	Cepheus: Bright Nebula
	Primary Focus	Broadband	Galaxies	NGC-7317	10:29 – 04:10	02:04	44	Pegasus: Stephan's Quintet
	Primary Focus	Broadband	Galaxies	NGC-7619	12:10 – 04:10	02:48	47	Pegasus: Pegasus Cluster
	Primary Focus	Nebula	PN	NGC-7662	11:10 – 04:10	02:54	48	Andromeda: Blue Snowball
	Primary Focus	Nebula	PN	NGC-40	12:52 – 04:10	03:41	51	Cepheus: Bow-Tie Nebula
	Primary Focus	Broadband	Galaxies	NGC 67-72	12:17 – 04:10	03:46	52	Andromeda: Andromeda Galaxy Group

Prospective Imaging Objects – August 04 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments

Prospective Imaging Objects – August 04 2024

Imaging Summary August 04, 2024

Astronomical Dusk = 08:56 Astronomical Dawn = 04:10

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					