Prospective Imaging Objects – November 01, 2024

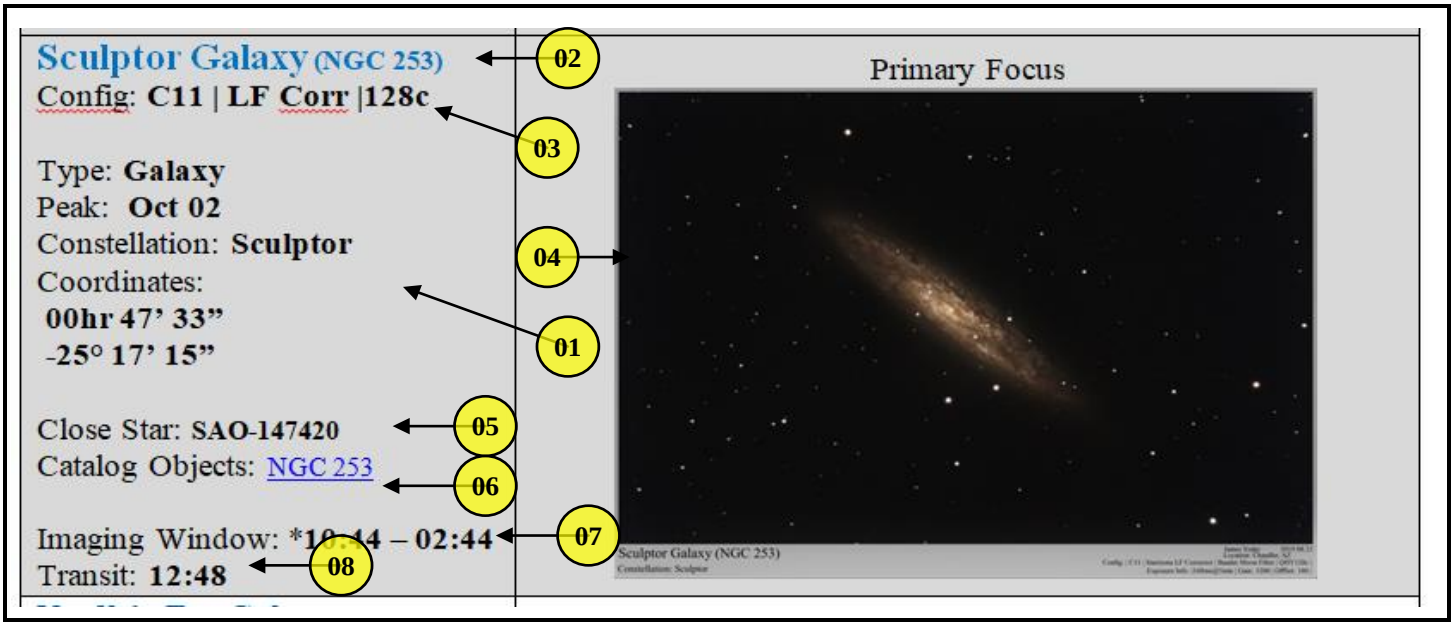
Astronomical Data

Sunrise	Sunset	Astronomical Dusk	Astronomical Dawn	Imaging	New Moon
06:47am	05:35 pm	06:59 pm	05:23 am	10:23	November 01

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.

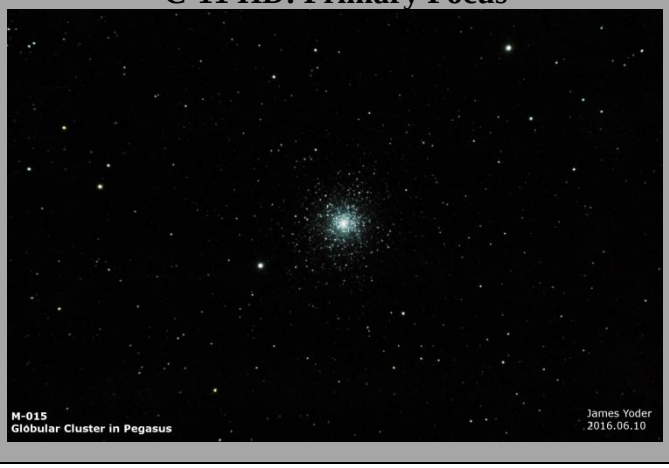
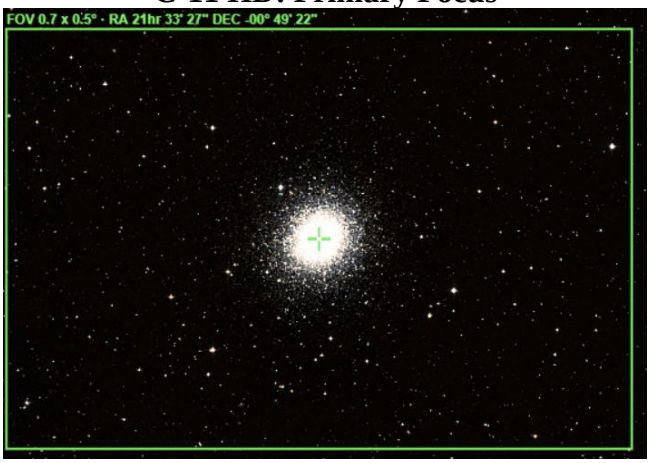
05: Close Star – A fairly bright star close to the target that can be used to check focus and sync the telescope before the imaging session begins.

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.

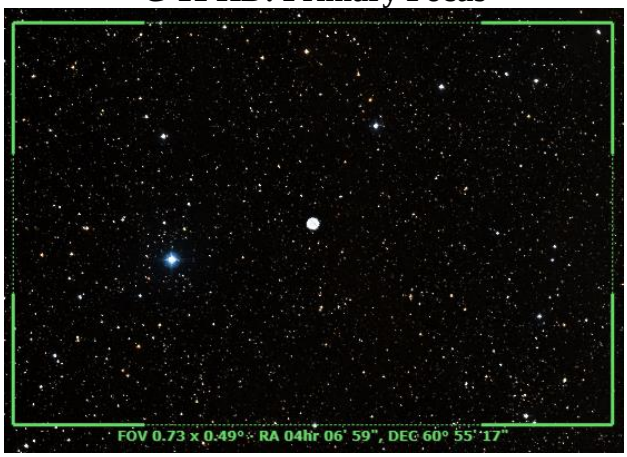
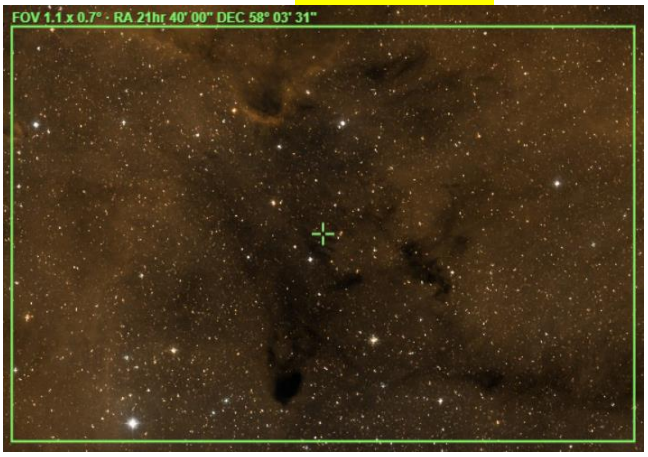
07: Imaging Window – Ideally the time the object is 45° above the horizon. Southern objects with negative DEC that do not peak above 45° are indicated with a *. Imaging window for these objects may be based on 30° or even 25° above horizon for the imaging window.

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.

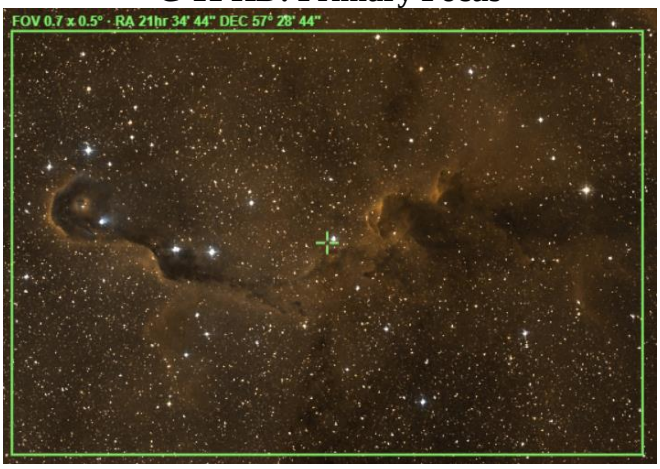
Prospective Imaging Objects – November 01, 2024

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: **06:59 – 10:04** Transit: **07:08 | 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: **06:59 – 11:02** Transit: **07:10 | 75°**	**C-11 HD: Focal Reducer** 
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: **06:59 – 09:18** Transit: **07:12 | 56°**	**C-11 HD: Primary Focus** 

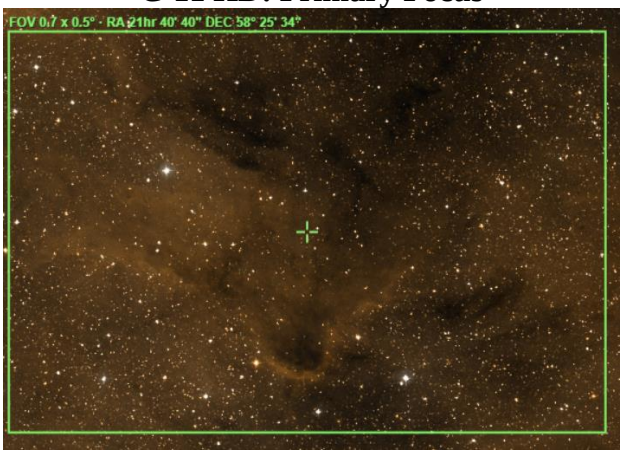
Prospective Imaging Objects – November 01, 2024

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: **06:59 – 10:13** Transit: **07:15 | 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: **06:59 – 11:07** Transit: **07:17 | 66°**	**C-11 HD: HyperStar v4** 
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: **06:59 – 11:07** Transit: **07:17 | 66°**	**C-11 HD: Focal Reducer** 

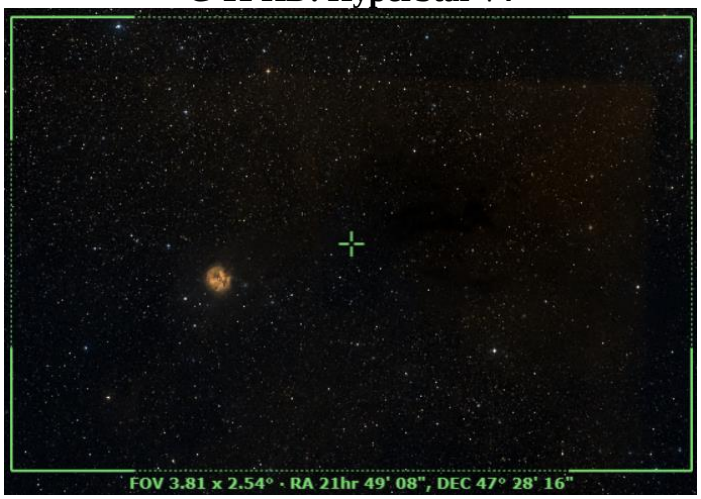
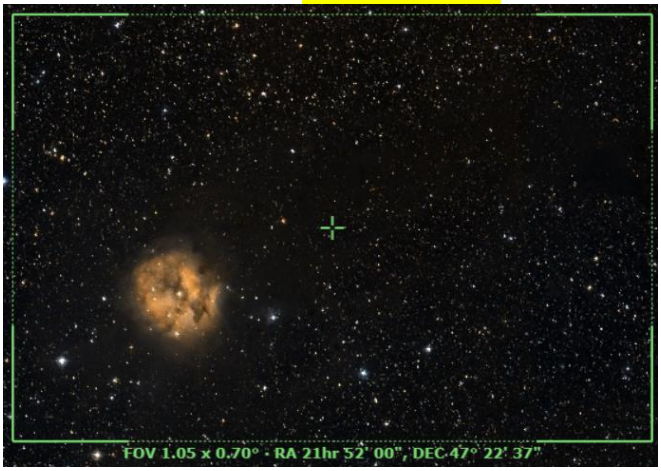
Prospective Imaging Objects – November 01, 2024

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: **06:59 – 11:07** Transit: **07:17 | 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: **06:59 – 11:07** Transit: **07:17 | 66°**	**C-11 HD: Primary Focus** 
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: **06:59 – 11:07** Transit: **07:17 | 66°**	**C-11 HD: Primary Focus** 

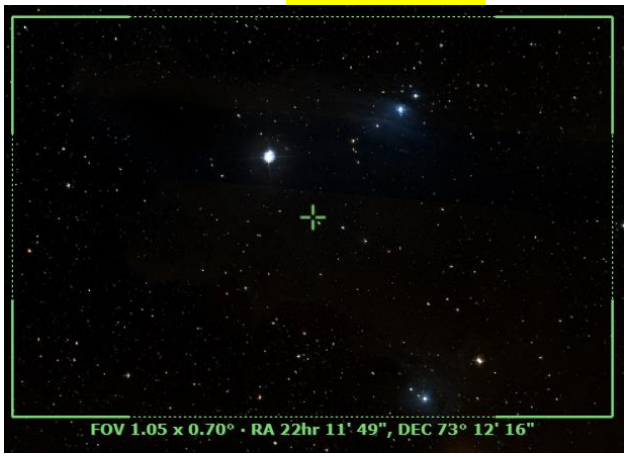
Prospective Imaging Objects – November 01, 2024

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: **06:59 – 11:07** Transit: **07:17 | 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: ***06:59 – 09:37** Transit: **07:18 | 34°**	**C-11 HD: Primary Focus** 
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: **06:59 – 11:04** Transit: **07:24 | 60°**	**C-11 HD: Primary Focus** 

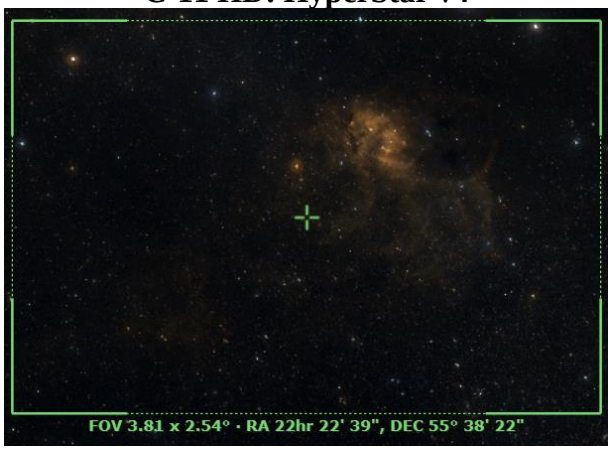
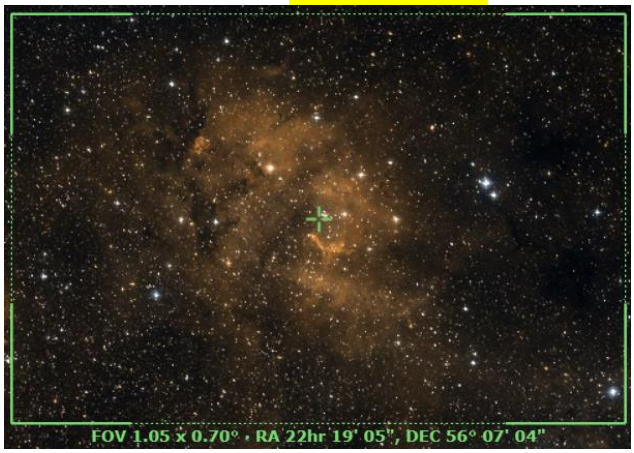
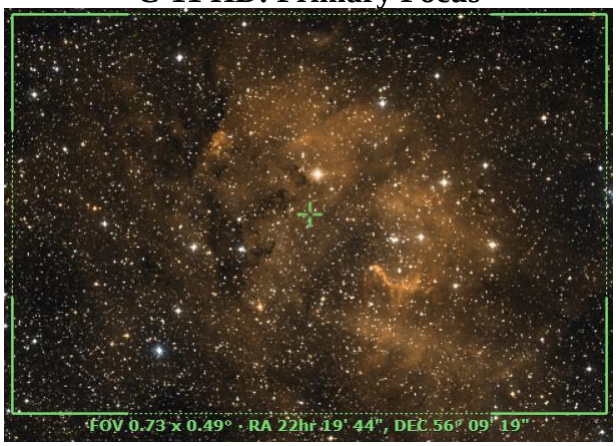
Prospective Imaging Objects – November 01, 2024

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: **06:59 – 11:24** Transit: **07:31 | 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: **06:59 – 11:24** Transit: **07:32 | 76°**	**C-11 HD: Focal Reducer** 
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: **06:59 – 11:24** Transit: **07:32 | 76°**	**C-11 HD: Primary Focus** 

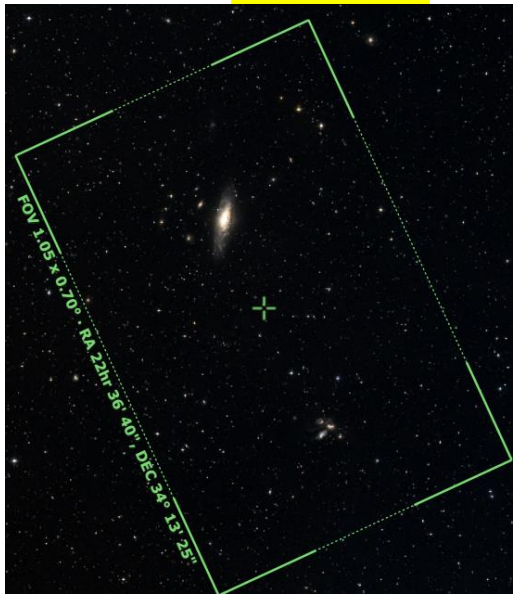
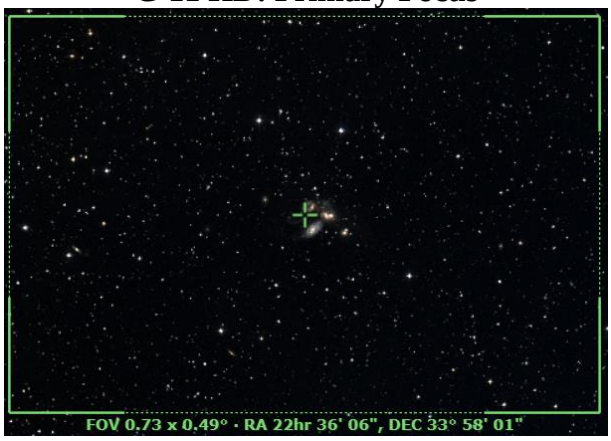
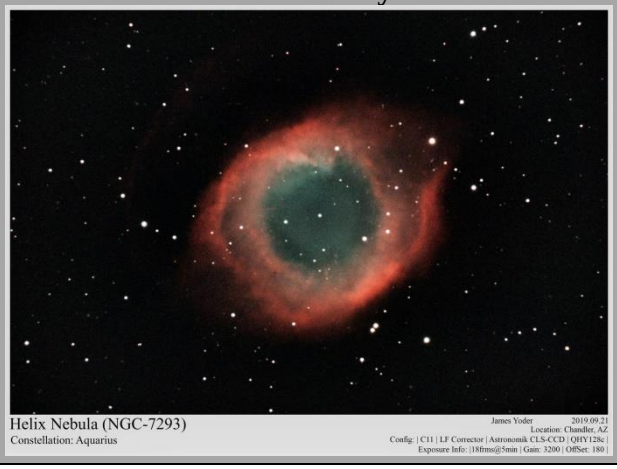
Prospective Imaging Objects – November 01, 2024

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: **06:59 – 10:38** Transit: **07:53 | 50°**	**C-11 HD: Focal Reducer** 
Wolf's Cave (VdB-152) Config: **C11-HD | HS | ZWO6200MC** Type: **Bright & Dark Nebula** Constellation: **Cepheus** Coordinates: **22h 17' 03"** **70° 21' 54"** Close Star: **SAO-20268** (Iota Cephei) Catalog Objects: B-168, IC-5146 Imaging Window: **06:59 – 11:24** Transit: **07:31 | 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 Star: **SAO-20268** (Iota Cephei) Catalog Objects: B-168, IC-5146 Imaging Window: **06:59 – 11:24** Transit: **07:31 | 76°**	**C-11 HD: Focal Reducer** 

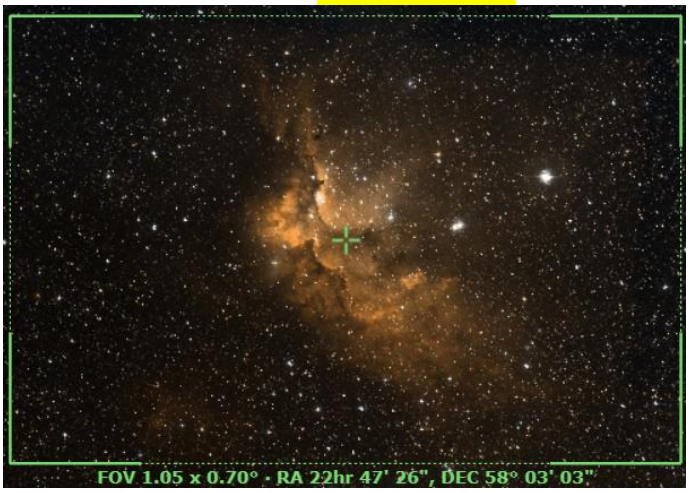
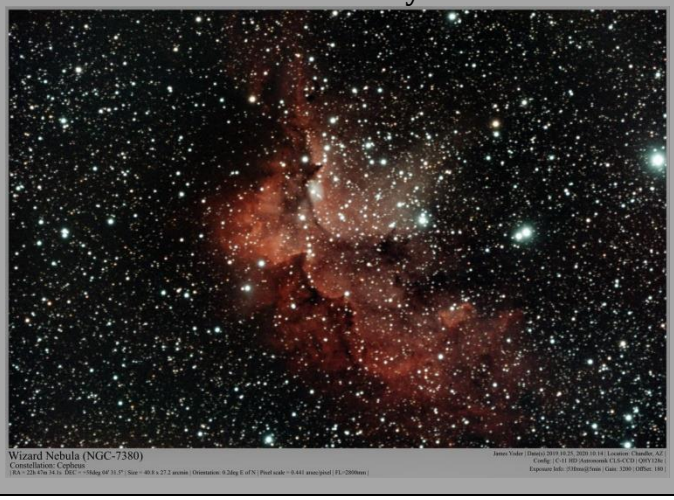
Prospective Imaging Objects – November 01, 2024

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: **06:59 – 11:49** Transit: **07:57	67°**	**C-11 HD: HyperStar v4** 
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: **06:59 – 11:49** Transit: **07:57	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: **06:59 – 11:49** Transit: **07:57	67°**	**C-11 HD: Primary Focus** 

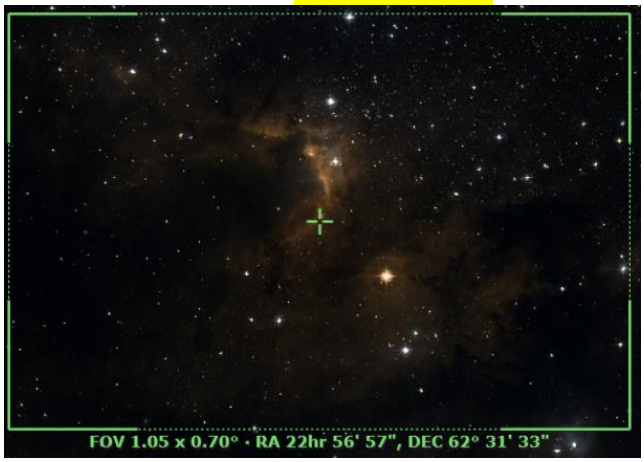
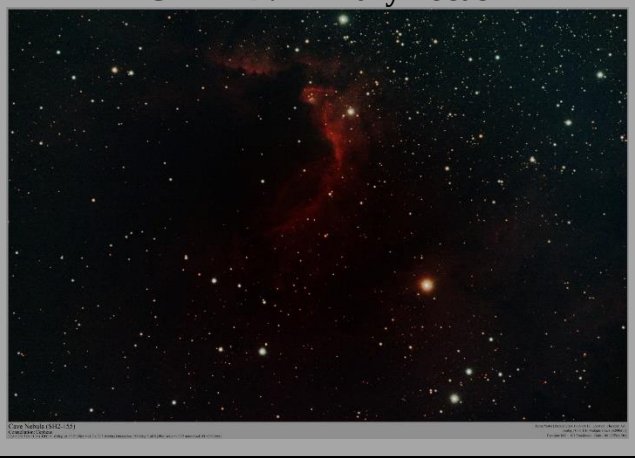
Prospective Imaging Objects – November 01, 2024

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: NGC-7317 Imaging Window: **06:59 – 11:55** Transit: **08:14 | 89°**	**C-11 HD: Focal Reducer** 
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: NGC-7317 Imaging Window: **06:59 – 11:55** Transit: **08:14 | 89°**	**C-11 HD: Primary Focus** 
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: ***06:59 – 10:37** Transit: **08:08 | 36°**	**C-11 HD: Primary Focus** 

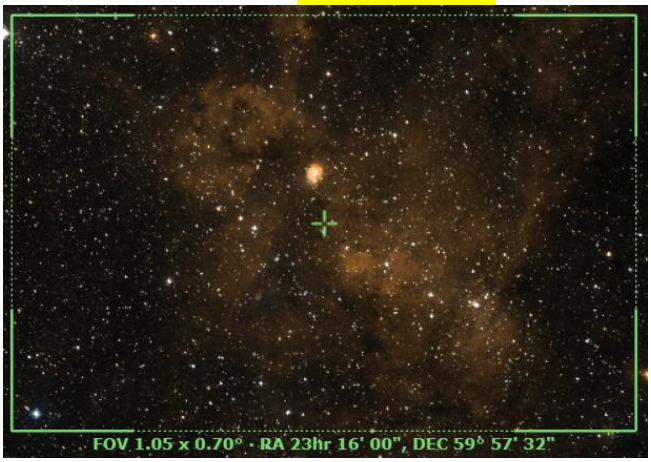
Prospective Imaging Objects – November 01, 2024

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: **06:59 – 11:56** Transit: **08:15 | 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: **06:59 – 12:15** Transit: **08:25 | 89°**	**C-11 HD: Focal Reducer** 
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: **05:59 – 12:15** Transit: **08:25 | 89°**	**C-11 HD: Primary Focus** 

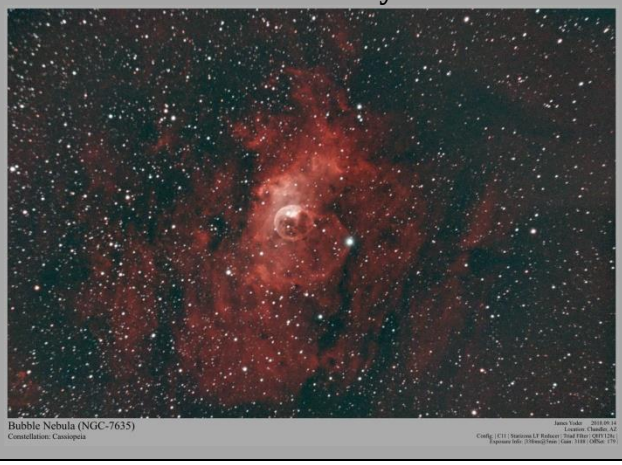
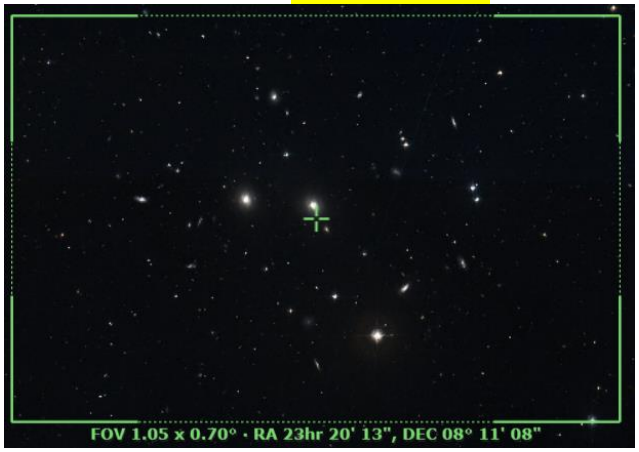
Prospective Imaging Objects – November 01, 2024

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: **06:59 – 12:18** Transit: **08:35 | 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: **06:59 – 12:18** Transit: **08:35 | 61°**	**C-11 HD: Focal Reducer** 
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: **06:59 – 12:18** Transit: **08:35 | 61°**	**C-11 HD: Primary Focus** 

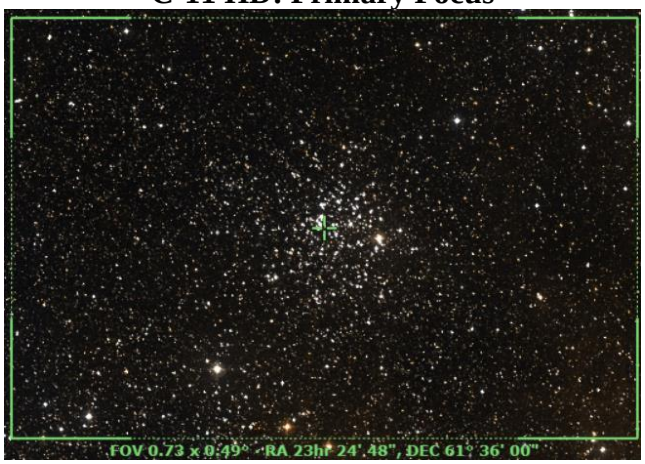
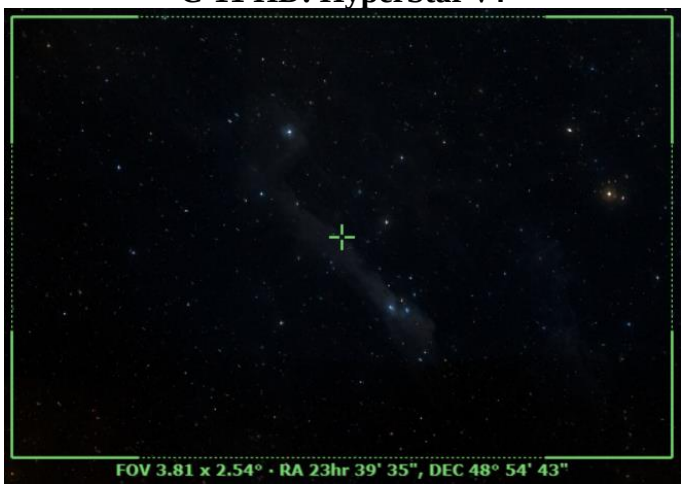
Prospective Imaging Objects – November 01, 2024

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: **06:59 – 11:40** Transit: **08:43 | 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 Imaging Window: **06:59 – 12:41** Transit: **08:54 | 63°**	**C-11 HD: HyperStar v4** 
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: **06:59 – 12:41** Transit: **08:54 | 63°**	**C-11 HD: Focal Reducer** 

Prospective Imaging Objects – November 01, 2024

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: **06:59 – 12:44** Transit: **08:59 | 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: **06:59 – 11:42** Transit: **08:58 | 65°**	**C-11 HD: Focal Reducer** 
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: **06:59 – 11:42** Transit: **08:58 | 65°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – November 01, 2024

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: **06:59 – 12:47** Transit: **09:03 | 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: **06:59 – 12:54** Transit: **09:04 | 81°**	**C-11 HD: Primary Focus** 
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: **06:59 – 01:01** Transit: **09:07 | 81°**	**C-11 HD: HyperStar v4** 

Prospective Imaging Objects – November 01, 2024

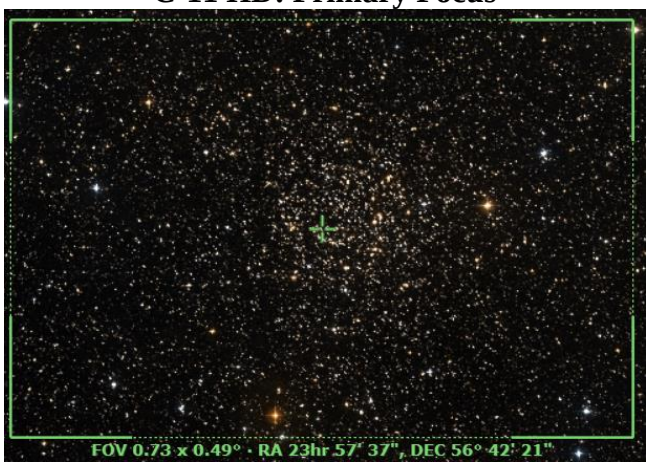
Caroline's Rose (NGC-7789)
Config: |C11HD|ZWO6200MC|

Type: **Open Cluster**

Constellation: **Cassiopeia**
Coordinates:
23h 57' 37"
56° 42' 21"

Close Star: **SAO-21607** (Shedar)
Catalog Objects: NGC-7789
Imaging Window: **06:59 – 01:26**
Transit: **09:35 | 65°**

C-11 HD: Primary Focus



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: **06:59 – 01:07**
Transit: **09:39 | 56°**

C-11 HD: HyperStar v4
Composite!

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

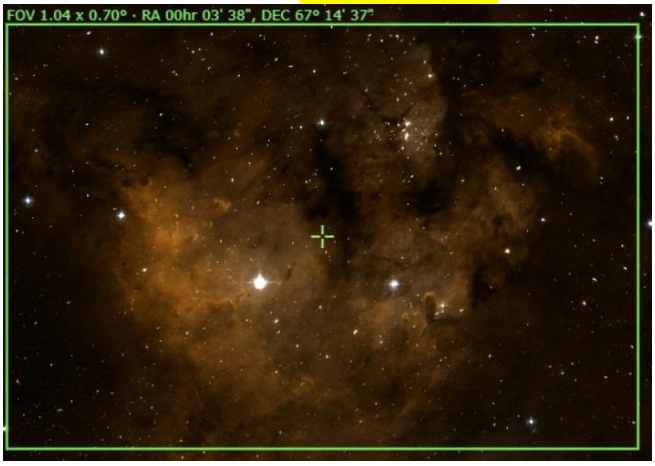
Type: **Diffuse Nebula**

Constellation: **Cepheus**
Coordinates:
00h 01' 27"
67° 28' 37"

Close Star: **SAO-20268**
Catalog Objects: Ced 214, NGC 7822, SH2-171
Imaging Window: **06:59 – 01:07**
Transit: **09:39 | 56°**

C-11 HD: HyperStar v4

Prospective Imaging Objects – November 01, 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: Ced 214, NGC 7822, SH2-171 Imaging Window: **06:59 – 01:07** Transit: **09:39 | 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: **06:59 – 01:07** Transit: **09:39 | 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: **06:59 – 12:46** Transit: **09:51 | 51°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – November 01, 2024

Andromeda Galaxy Group

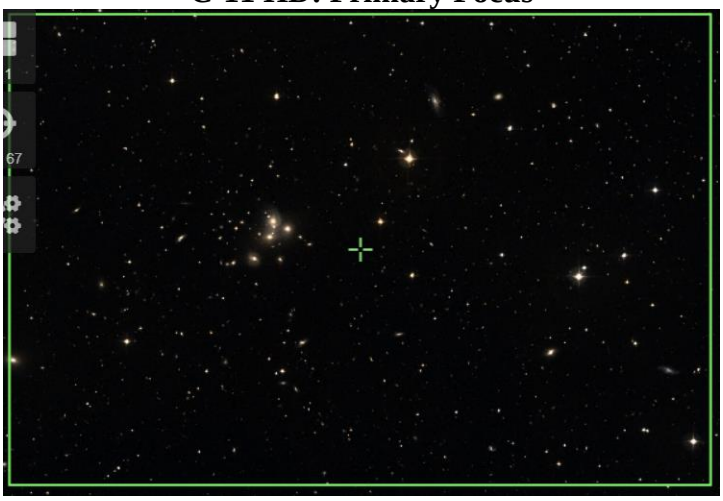
Config: |C11HD|ZWO6200MC|

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: **06:59 – 01:31**
Transit: **09:56 | 87°**

C-11 HD: Primary Focus



NGC-147 & NGC-185

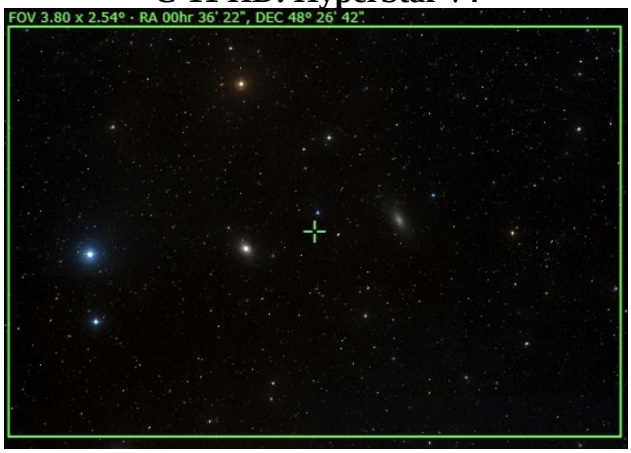
Config: **C11-HD | HS | ZWO6200MC**

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: **06:59 – 02:04**
Transit: **10:11 | 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
Imaging Window: **06:59 – 02:02**
Transit: **10:11 | 75°**

C-11 HD: Focal Reducer
Composite!

Prospective Imaging Objects – November 01, 2024

NGC-147

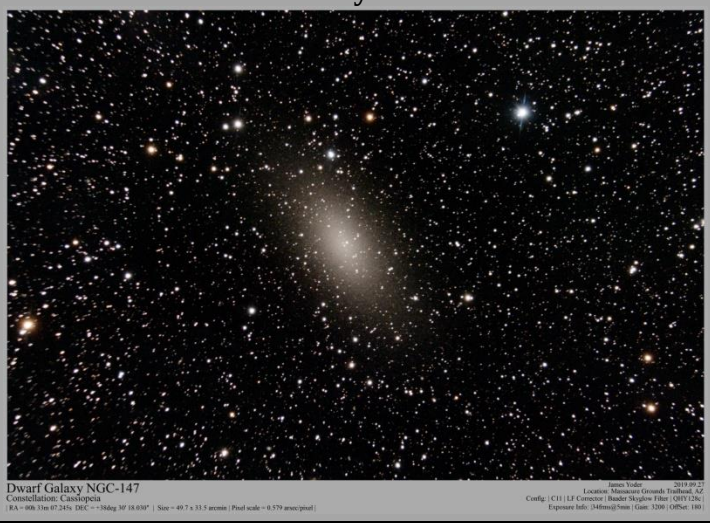
Config: |ZWO6200MC|

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

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

Imaging Window: **06:59 – 02:02**
Transit: **10:11 | 75°**

Primary Focus



NGC-185

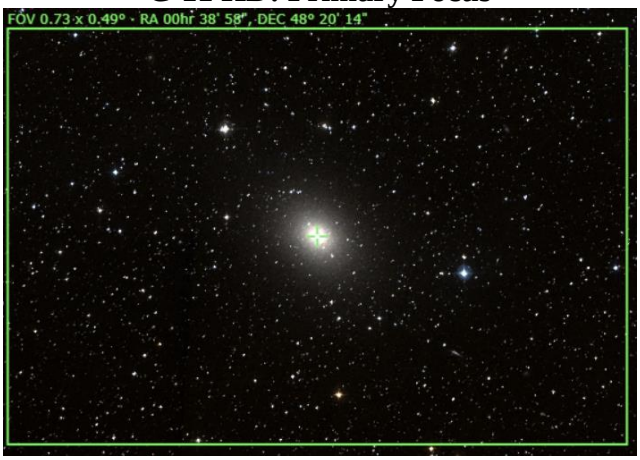
Config: **C11-HD | ZWO6200MC**

Type: **Dwarf Spheroidal Galaxy**

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

Close Star: **SAO-21609 (Shedar)**
Catalog Objects: NGC-185
Imaging Window: **06:59 – 02:10**
Transit: **10:17 | 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: **06:59 – 02:07**
Transit: **10:18 | 82°**

C-11 HD: Primary Focus

Prospective Imaging Objects – November 01, 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: **06:59 – 02:09**
Transit: **10:20 | 83°**

C-11 HD: Primary Focus

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: **06:59 – 02:09**
Transit: **10:20 | 82°**

C-11 HD: HyperStar v4

NGC246, NGC255, PGC 2689
Config: **C11-HD | HS | ZWO6200MC**

Type: **Planetary Nebula, 2 Galaies**

Constellation: **Cetus**
Coordinates:
00h 47’ 00”
-11° 40’ 40”

Close Star: **SAO-147420 (Diphda)**
Catalog Objects: NGC-246
Imaging Window: ***07:12 – 01:40**
Transit: **10:25 | 45°**

C-11 HD: Focal Reducer

Prospective Imaging Objects – November 01, 2024

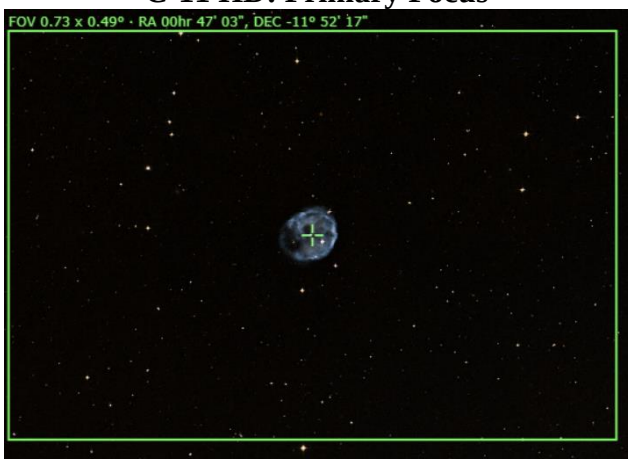
Skull Nebula (NGC-246)
Config: **C11-HD | ZWO6200MC**

Type: **Planetary Nebula**

Constellation: **Cetus**
Coordinates:
00h 47’ 03”
-11° 52’ 17”

Close Star: **SAO-147420 (Diphda)**
Catalog Objects: NGC-246
Imaging Window: ***07:12 – 01:40**
Transit: **10:25 | 45°**

C-11 HD: Primary Focus



Needle’s Eye Galaxy (NGC 247)
Config: |C11HD|ZWO6200MC|

Type: **Galaxy**
Peak:
Constellation: **Cetus**
Coordinates:
00hr 47’ 12”
-20° 44’ 38”

Close Star: **SAO-147420**
Catalog Objects: NGC 247

Imaging Window: ***07:57 – 12:59**
Transit: **10:25 | 36°**

C-11 HD: Primary Focus

NGC-288, NGC-253
Config: **C11-HD | HS | ZWO6200MC**

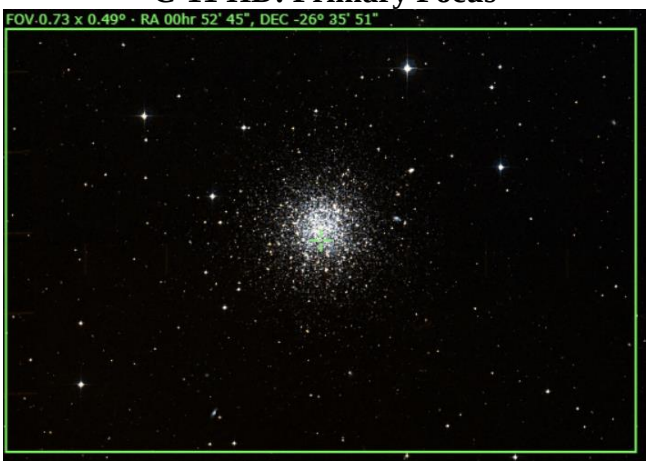
Type: **Globular and Galaxy**

Constellation: **Sculptor**
Coordinates:
00h 50’ 03”
-25° 54’ 37”

Close Star: **SAO-147420 (Diphda)**
Catalog Objects: NGC-288, NGC-253
Imaging Window: ***08:26 – 12:29**
Transit: **10:25 | 31°**

C-11 HD: HyperStar v4

Prospective Imaging Objects – November 01, 2024

Sculptor Galaxy (NGC-253) Config: **C11-HD | ZWO6200MC** Type: **Spiral Galaxy** Constellation: **Sculptor** Coordinates: **00h 47' 33"** **-25° 17' 15"** Close Star: **SAO-147420 (Diphda)** Catalog Objects: NGC-253 Imaging Window: ***08:26 – 12:29** Transit: **10:25 | 31°**	**C-11 HD: Primary Focus** 
NGC-288 Config: **C11-HD | ZWO6200MC** Type: **Globular Cluster** Constellation: **Sculptor** Coordinates: **00h 52' 45"** **-26° 35' 51"** Close Star: **SAO-147420 (Diphda)** Catalog Objects: NGC-288 Imaging Window: ***08:49 – 12:22** Transit: **10:30 | 31°**	**C-11 HD: Primary Focus** 
NGC-188 Config: **C11-HD | FR | ZWO6200MC** Type: **Open Cluster** Constellation: **Cepheus** Coordinates: **00h 47' 30"** **85° 15' 30"** Close Star: **SAO-308 (Polaris)** Catalog Objects: NGC-188 Imaging Window: ***06:59 – 03:14** Transit: **10:25 | 38°**	**C-11 HD: Focal Reducer** 

Prospective Imaging Objects – November 01, 2024

NGC-281
Config: **C11-HD | FR | ZWO6200MC**

Type: **Diffuse Nebula**

Constellation: **Cassiopeia**
Coordinates:
00h 53’ 00”
56° 37’ 00”

Close Star: **SAO-11482 (Navi)**
Catalog Objects: NGC-281
Imaging Window: **06:59 – 02:21**
Transit: **10:30 | 67°**

C-11 HD: Focal Reducer

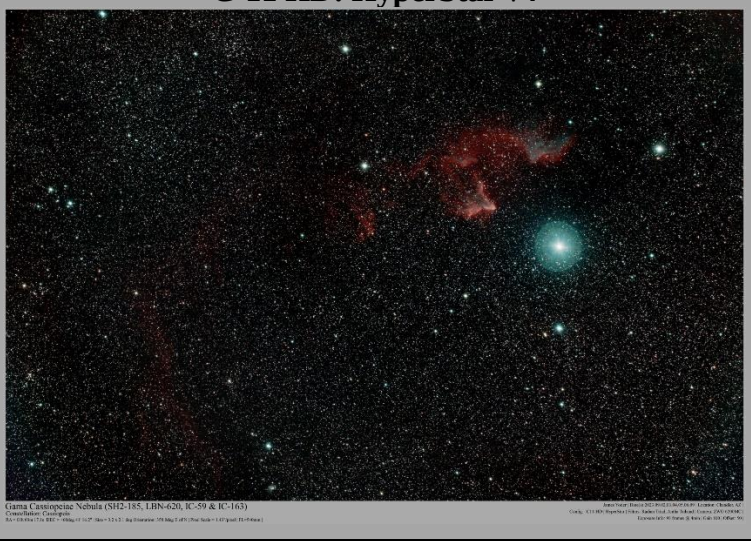
Gamma Cassiopeiae Nebula
(SH2-185)
Config: **C11-HD | HS | ZWO6200MC**

Type: **Bright Nebula**

Constellation: **Cassiopeia**
Coordinates:
01h 03’ 11”
60° 42’ 24”

Close Star: **SAO-11482 (Navi)**
Catalog Objects: SH2-185
Imaging Window: **06:59 – 02:24**
Transit: **10:38 | 62°**

C-11 HD: HyperStar v4



Gamma Cassiopeiae Nebula
(SH2-185)
Config: **C11-HD | HS | ZWO6200MC**

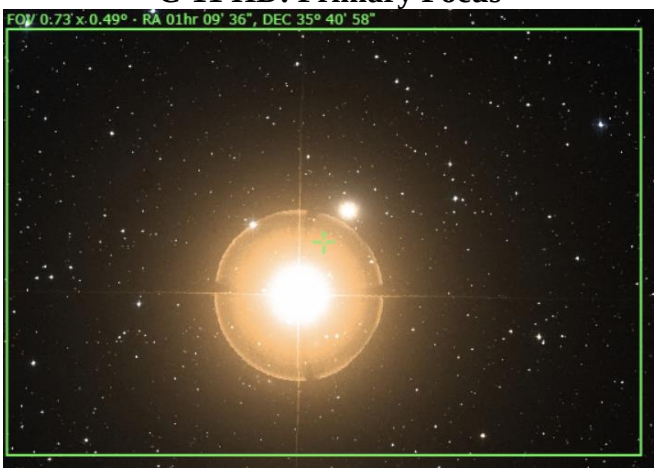
Type: **Bright Nebula**

Constellation: **Cassiopeia**
Coordinates:
00h 58’ 48”
61° 04’ 02”

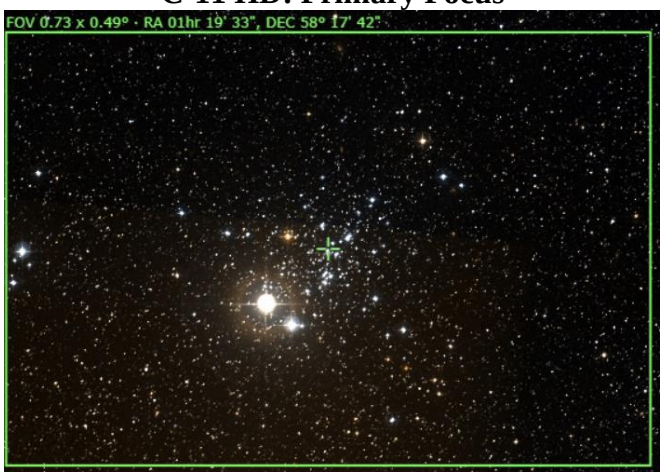
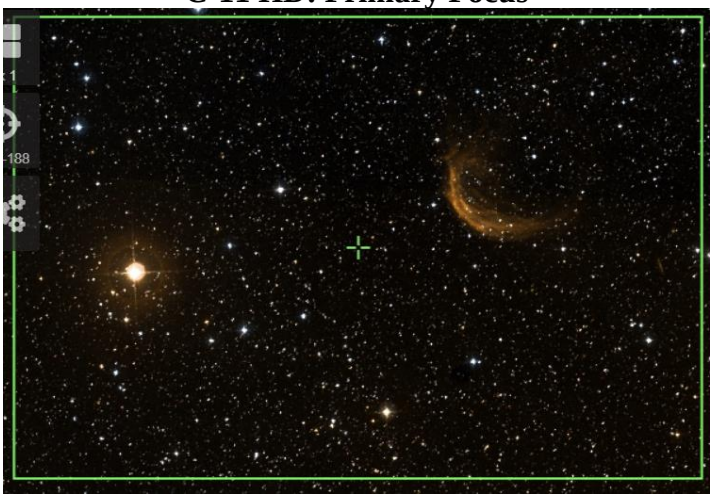
Close Star: **SAO-11482 (Navi)**
Catalog Objects: SH2-185
Imaging Window: **06:59 – 02:24**
Transit: **10:38 | 62°**

C-11 HD: Primary Focus

Prospective Imaging Objects – November 01, 2024

IC-1613 Config: **C11-HD | ZWO6200MC** Type: **Irregular Dwarf Galaxy** Constellation: **Cetus** Coordinates: **01h 04’ 48”** **02° 07’ 07”** Close Star: **SAO-75151 (Hamal)** Catalog Objects: IC-1613 Imaging Window: **08:27 – 01:04** Transit: **10:42 | 59°**	**C-11 HD: Primary Focus** 
Mirachs Ghost (NGC-404) Config: **C11-HD | ZWO6200MC** Type: **Elliptical Galaxy** Constellation: **Andromeda** Coordinates: **01h 09’ 36”** **35° 40’ 58”** Close Star: **SAO-544471 (Mirach)** Catalog Objects: NGC-404 Imaging Window: **07:09 – 02:30** Transit: **10:47 | 88°**	**C-11 HD: Primary Focus** 
NGC-457 & Dolphin Nebula Config: **C11-HD | HS | ZWO6200MC** Type: **Open Cluster & Nebula** Constellation: **Cassiopeia** Coordinates: **01° 23’ 38”** **58° 12’ 54”** Close Star: **SAO-22268 (Ruchbah)** Catalog Objects: NGC-457 Imaging Window: **07:13 – 02:47** Transit: **10:57 | 65°**	**C-11 HD: HyperStar v4** 

Prospective Imaging Objects – November 01, 2024

Owl Cluster (NGC-457) Config: **C11-HD | ZWO6200MC** Type: **Open Cluster & Nebula** Constellation: **Cassiopeia** Coordinates: **01h 23' 38"** **58° 12' 54"** Close Star: **SAO-22268 (Ruchbah)** Catalog Objects: NGC-457 Imaging Window: **07:13 – 02:47** Transit: **11:57 | 65°**	**C-11 HD: Primary Focus** 
Minkowski's Object (Arp-133) Config: **C11-HD | HS | ZWO6200MC** Type: **Galaxy Cluster** Constellation: **Cetus** Coordinates: **01h 25' 27"** **-01° 29' 03"** Close Star: **SAO-75151 (Hamal)** Catalog Objects: ARP-133 Imaging Window: **09:05 – 01:08** Transit: **11:03 | 55°**	**C-11 HD: Primary Focus** 
Firefox Nebula (Sh 2-188) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Cassiopeia** Coordinates: **01h 31' 37"** **58° 21' 22"** Close Star: **SAO-22268 (Ruchbah)** Catalog Objects: Sh 2-188 Imaging Window: **07:24 – 02:58** Transit: **11:08 | 65°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – November 01, 2024

M-103 (NGC-581)
Config: |C11HD|ZWO6200MC|

Type: **Open Cluster**
Constellation: **Cassiopeia**
Coordinates:
01h 33’ 31”
60° 39’ 44”

Close Star: ISO-22268 (Ruchbah)
Catalog Objects: M-103/NGC-581

Imaging Window: **07:30 – 02:58**
Transit: **11:11 | 63°**

C-11 HD: Primary Focus

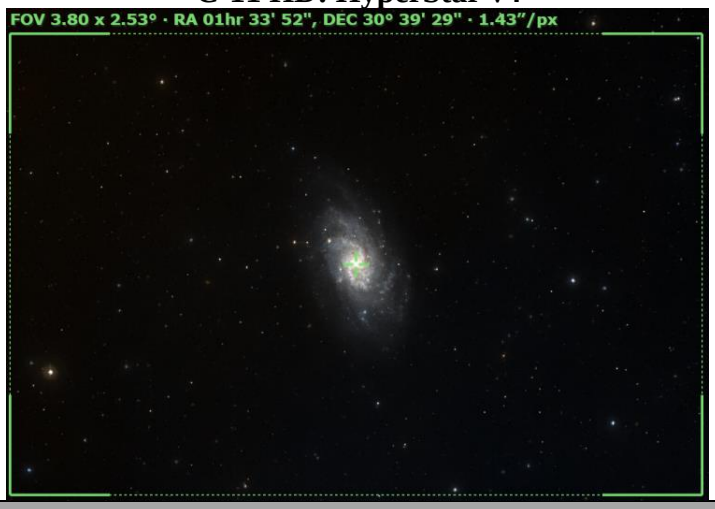
Triangulum Galaxy (M-33)
Config: **C11 | HS | ZWO6200MC**

Type: **Galaxy**
Constellation: **Triangulum**
Coordinates:
01h 33’ 52”
30° 39’ 29”

Close Star: **SAO-74996**
Catalog Objects: M33, NGC598

Imaging Window: **07:41 – 02:48**
Transit: **11:11 | 87°**

C-11 HD: HyperStar v4



Triangulum Galaxy (M-33)
Config: |C11-HD|FR|ZWO6200MC|

Type: **Galaxy**
Peak: **Oct 14**
Constellation: **Triangulum**

Camera Rotation - 90°
Coordinates:
01h 33’ 52”
30° 39’ 29”

Close Star: **SAO-74996**
Catalog Objects: M33, NGC598

Imaging Window: **07:41 – 02:48**
Transit: **11:11 | 87°**

CH11-HD Focal Reducer **90° Rotation**

Prospective Imaging Objects – November 01, 2024

M-74

Config: |C11HD|ZWO6200MC|

Type: **Spiral Galaxy**
Peak:
Constellation: **Pisces**
Coordinates:
01h 36’ 42”
15° 46’ 60”

Close Star: ISO-91781 (Algenib)
Catalog Objects: M-74

Imaging Window: **08:13 – 02:21**
Transit: **11:14 | 72°**

C-11 HD: Primary Focus

Little Dumbbell Nebula (M-76)

Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**
Peak:
Constellation: **Perseus**
Coordinates:
01h 42’ 18”
51° 34’ 17”

Close Star: ISO-37375
Catalog Objects: M-76/ NGC-650
Imaging Window: **07:32 – 03:13**
Transit: **11:20 | 72°**

C-11 HD: Primary Focus

Nautilus Galaxy (NGC-772)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy**
Peak:
Constellation: **Aries**
Coordinates:
01h 59’ 19”
19° 00’ 27”

Close Star: ISO-75012 (Sheratan)
Catalog Objects: NGC-772

Imaging Window: **08:28 – 02:51**
Transit: **11:37 | 76°**

C-11 HD: Primary Focus

Prospective Imaging Objects – November 01, 2024

Hand chi Persei (NGC 869, 884)

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

Type: **Double Open Cluster**
Peak: **October 28**
Constellation: **Perseus**
Coordinates:
02hr 20’ 31”
56° 54’ 05”

Close Star: SAO-22258 (Ruchbah)
Catalog Objects: NGC 869, 884

Imaging Window: **08:11 – 03:48**
Transit: **11:56 | 66°**

C-11 HD: HyperStar v4

Edge On Galaxy (NGC 891)

Config: |C1|LF|ZWO6200MC|

Type: **Galaxy**
Peak: **Oct 27**
Constellation: **Andromeda**
Coordinates:
02h 23’ 43.29”
42° 25’ 46.4”

Close Star: **SAO-37734**
Catalog Objects: NGC891

Imaging Window: **08:12 – 03:50**
Transit: **12:00 | 81°**

Primary Focus

NGC-925 (PGC 9332)

Config: |C11-HD|ZWO6200MC|

Type: **Galaxy**
Constellation: **Triangulum**
Coordinates:
02h 27’ 17”
33° 34’ 44”

Close Star: **SAO-55306** (Beta Trianguli)
Catalog Objects: NGC925/PGC9332

Imaging Window: **08:30 – 03:46**
Transit: **12:05 | 90°**

Primary Focus

Prospective Imaging Objects – November 01, 2024

Fish Head Nebula (IC-1795)

Config: |C11-HD|FR|ZWO6200MC|

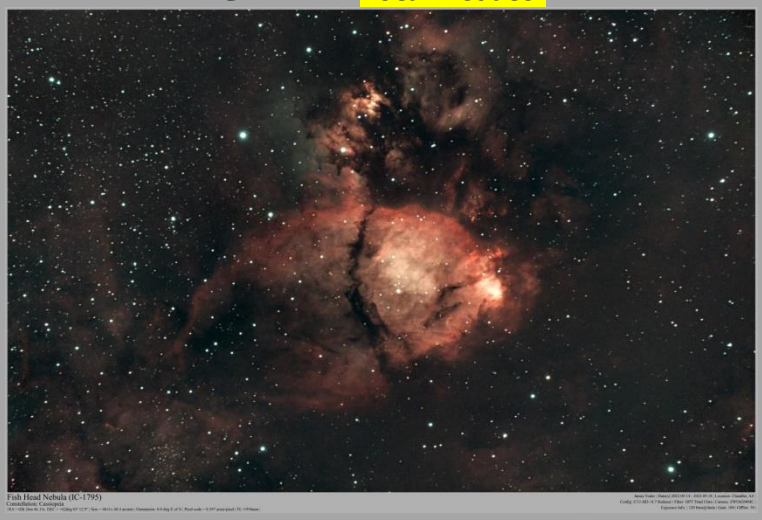
Type: **Bright Nebula**
Constellation: **Cassiopeia**

Coordinates:
02h 27’ 03”
62° 02’ 31”

Close Star: **SAO-38787** (Mirfak)
Catalog Objects: IC-1795

Imaging Window: **08:25 – 03:47**
Transit: **12:03 | 87°**

CH11-HD Focal Reducer



Heart and Soul Nebulas

Config: **C11 | HS | ZWO6200MC**

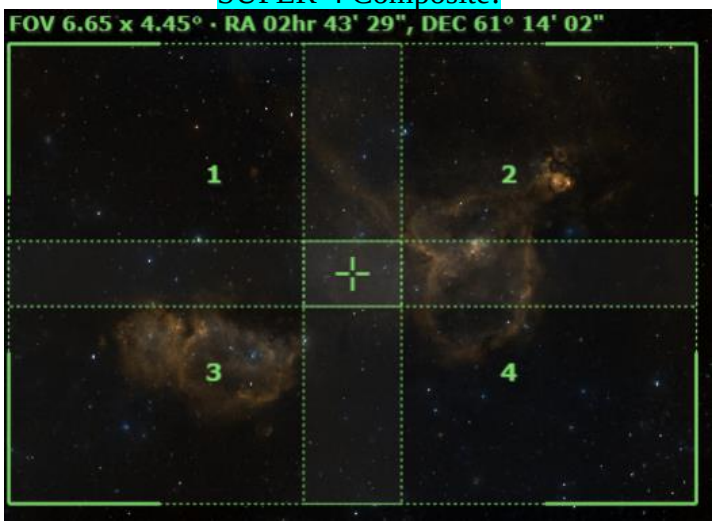
Type: **Diffuse Nebula**

Constellation: **Cassiopeia**
Coordinates (RA, DEC):
Pane 1: **02hr 55' 41", 62º 09' 11"**
Pane 2, **02hr 31' 16", 62º 09' 11**
Pane 3, **02hr 54' 58", 60º 15' 00"**
Pane 4, **02hr 31' 59", 60º 15' 00"**

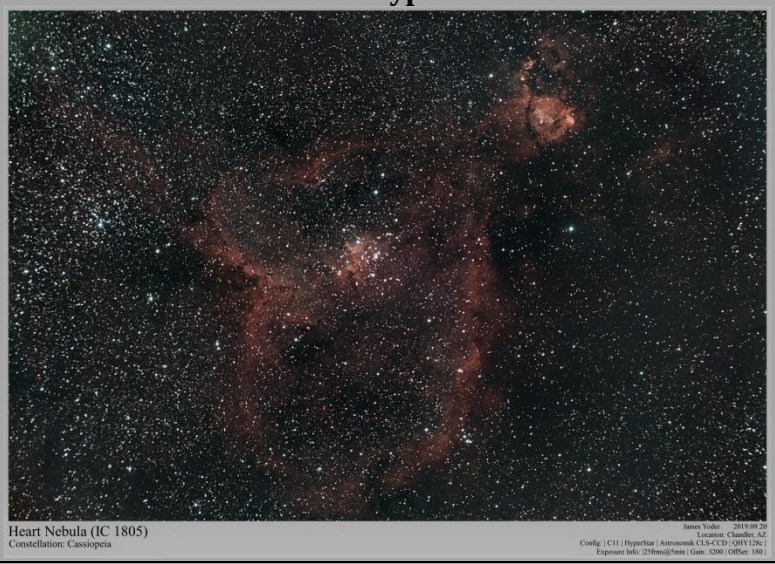
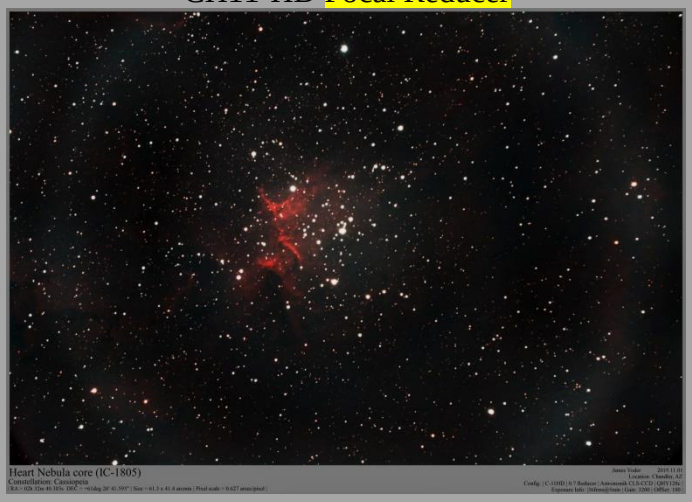
Close Star: **SAO-38787 (Mirfak)**
Catalog Objects: IC-1848

Imaging Window: **08:48 – 04:16**
Transit: **12:29 | 63°**

C-11 HD: HyperStar v4
SUPER-4 Composite!



Prospective Imaging Objects – November 01, 2024

Heart Nebula (IC 1805) Config: **C11-HD | HS | ZWO6200MC** Type: **Diffuse Nebula** Peak: **October 31** Constellation: **Cassiopeia** Coordinates: **02hr 31’ 16”** **61° 21’ 36”** Close Star: SAO-12031 Catalog Objects: IC 1805 Imaging Window: **08:31 – 03:56** Transit: **12:10 | 62°**	**C-11 HD: HyperStar v4** 
Heart Nebula (IC 1805) Config: |C11-HD|FR|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Cassiopeia** Coordinates: **02hr 26’ 36”** **62° 06’ 53”** Close Star: SAO-12031 Catalog Objects: IC 1805 Imaging Window: **08:31 – 03:56** Transit: **12:10 | 62°**	CH11-HD Focal Reducer 
Heart Nebula (IC-1805) Config: |C1|LF|ZWO6200MC| Type: **Diffuse Nebula** Peak: **October 31** Constellation: **Cassiopeia** Coordinates: **02hr 32’ 42”** **61° 27’ 00”** Close Star: SAO-12031 Catalog Objects: IC 1805 Imaging Window: **08:31 – 03:56** Transit: **12:10 | 62°**	Primary Focus 

Prospective Imaging Objects – November 01, 2024

M-77, NGC 1055

Config: |C11-HD|FR|ZWO6200MC|

Type: **Galaxy**
Peak:
Constellation: **Cetus**
Coordinates:
02hr 42’ 14”
00° 14’ 28”
Angle: 90°

Close Star: **SAO-110665**
Catalog Objects: M-77, NGC-1055, NGC-1068

Imaging Window: **10:15 – 02:32**
Transit: **12:20 | 57°**

CH11-HD Focal Reducer

NGC-1055

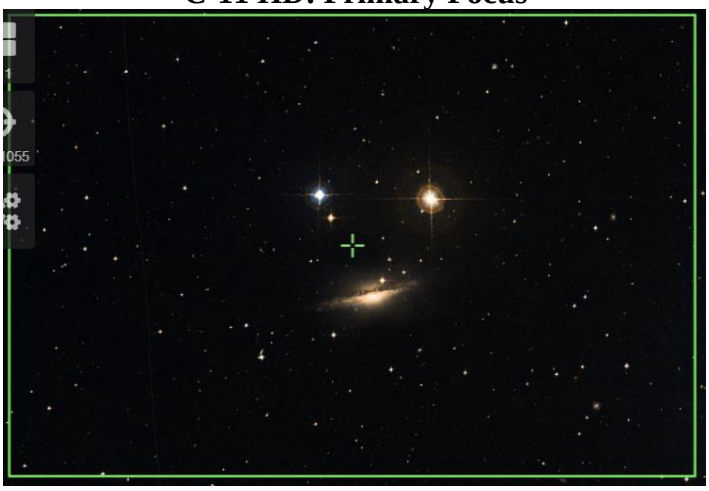
Config: |C11HD|ZWO6200MC|

Type: **Galaxy**
Peak:
Constellation: **Cetus**
Coordinates:
02hr 41’ 50”
00° 29’ 48”

Close Star: **SAO-110665**
Catalog Objects: NGC-1055

Imaging Window: **10:12 – 02:33**
Transit: **12:19 | 57°**

C-11 HD: Primary Focus



M-34 (NGC-1039)

Config: |C11-HD|ZWO6200MC|

Type: **Open Cluster**
Constellation: **Perseus**
Coordinates:
02h 42’ 05”
42° 45’ 42”

Close Star: **SAO-38592** (Algol)
Catalog Objects: M-34/NGC-1039

Imaging Window: **08:35 – 04:10**
Transit: **12:19 | 81°**

Primary Focus

Prospective Imaging Objects – November 01, 2024

M 77 (NGC 1068)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy**
Peak:
Constellation: **Cetus**
Coordinates:
02hr 42’ 34”
00° 02’ 07”

Close Star: **SAO-110665**
Catalog Objects: M 77, NGC-1068

Imaging Window: **10:15 – 02:32**
Transit: **12:20 | 57°**

C-11 HD: Primary Focus

Soul Nebula (IC-1848)

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

Type: **Diffuse Nebula**
Peak:
Constellation: **Cassiopeia**
Coordinates:
02hr 57’ 16”
60° 37’ 37”

Close Star: **SAO-38787 (Mirfak)**
Catalog Objects: IC 1848

Imaging Window: **08:48 – 04:16**
Transit: **12:29 | 63°**

C-11 HD: HyperStar v4

Soul Nebula (IC-1848)

Config: |C1|LF|ZWO6200MC|

Type: **Diffuse Nebula**
Peak:
Constellation: **Cassiopeia**
Coordinates:
02hr 57’ 16”
60° 37’ 37”

Close Star: **SAO-38787 (Mirfak)**
Catalog Objects: IC 1848

Imaging Window: **08:48 – 04:16**
Transit: **12:29 | 63°**

Primary Focus

Prospective Imaging Objects – November 01, 2024

Perseus Galaxy Cluster

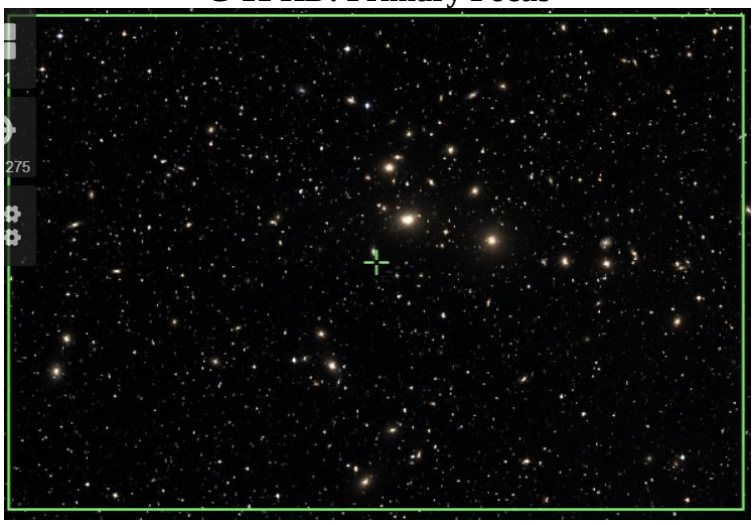
Config: |C11HD|ZWO6200MC|

Type: **Galaxy Cluster**
Peak:
Constellation: **Perseus**
Coordinates:
03hr 19’ 58”
41° 29’ 13”

Close Star: **SAO-38592** (Algol)
Catalog Objects: Abell-426, NGC1275, 1278, 1272, Et. El.

Imaging Window: **09:14 – 04:47**
Transit: **12:57 | 82°**

C-11 HD: Primary Focus



NGC-1333

Config: |C11HD|ZWO6200MC|

Type: **Bright Nebula**
Peak: **November 13**
Constellation: **Perseus**
Coordinates:
03hr 29’ 15”
31° 20’ 12”

Close Star: **SAO-56799**
Catalog Objects: NGC 1333

Imaging Window: **09:35 – 04:44**
Transit: **01:06 | 88°**

C-11 HD: Primary Focus

NGC-1360

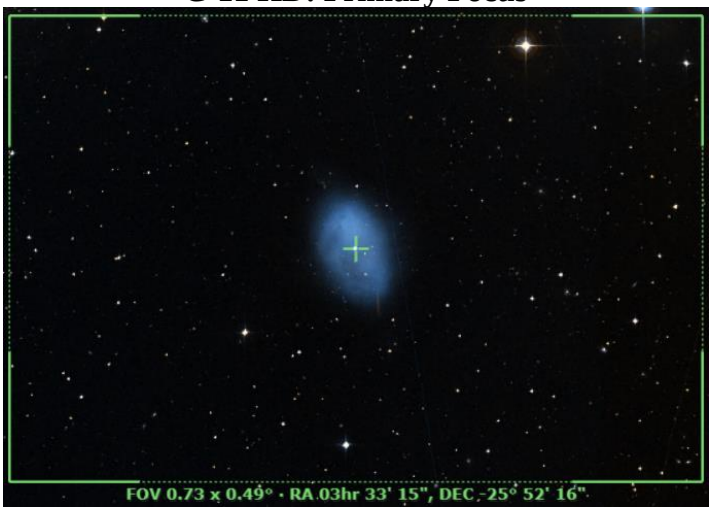
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**
Peak:
Constellation: **Fornax**
Coordinates:
03hr 33’ 15”
-25° 52’ 16”

Close Star: **SAO-168460**
Catalog Objects: NGC-1360

Imaging Window: ***11:22 – 03:06**
Transit: **01:10 | 31°**

C-11 HD: Primary Focus



Prospective Imaging Objects – November 01, 2024

IC-348

Config: |C11HD|ZWO6200MC|

Type: **Bright Nebula**
Peak:
Constellation: **Perseus**
Coordinates:
03hr 44’ 26”
32° 10’ 54”

Close Star: **SAO-147420**
Catalog Objects: IC-348

Imaging Window: **09:49 – 05:01**
Transit: **01:22 | 89°**

C-11 HD: Primary Focus

IC-342

Config: |C11HD|ZWO6200MC|

Type: **Barred Spiral Galaxy**
Peak:
Constellation: **Camelopardalis**
Coordinates:
03hr 46’ 48”
68° 05’ 44”

Close Star: **SAO-12031 (Segin)**
Catalog Objects: IC-342

Imaging Window: **10:05 – 04:50**
Transit: **01:24 | 55°**

C-11 HD: Primary Focus

Pleiades (M 45)

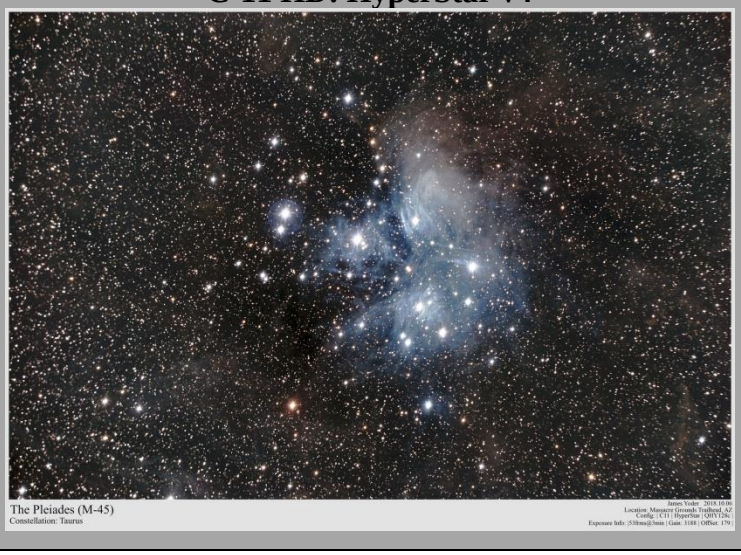
Config: **C11-HD | HS | ZWO6200MC**

Type: **Bright Nebula**
Peak: **November 16**
Constellation: **Taurus**
Coordinates:
03hr 46’ 07”
24° 11’ 18”

Close Star: **SAO-56799**
Catalog Objects: M45

Imaging Window: **10:04 – 04:49**
Transit: **01:23 | 81°**

C-11 HD: HyperStar v4



Prospective Imaging Objects – November 01, 2024

Pleiades (M-45)

Config: |C1|LF|ZWO6200MC|

Type: **Bright Nebula**
Peak: **November 16**
Constellation: **Taurus**
Coordinates:
03hr 46’ 15.932”
24° 12’ 07.154”

Close Star: **SAO-56799**
Catalog Objects: M45

Imaging Window: **10:04 – 04:49**
Transit: **01:23 | 81°**

Primary Focus

California Nebula (NGC 1499)

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

Type: **Diffuse Nebula**
Peak: **November 22**
Constellation: **Perseus**
Coordinates:
04hr 01’ 22”
36° 21’ 19”

Close Star: SAO-56840
Catalog Objects: NGC 1499

Imaging Window: **10:02 – 05:23**
Transit: **01:40 | 87°**

C-11 HD: HyperStar v4

Oyster Nebula (NGC 1501)

Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**
Constellation: **Camelopardalis**
Coordinates:
04hr 06’ 58”
60° 55’ 3.5”

Close Star: **SAO-038787 (Mirfak)**
Catalog Objects: NGC-1501

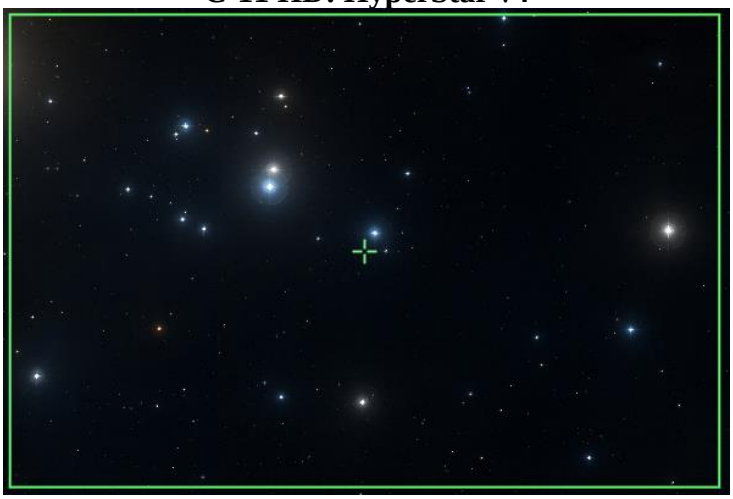
Imaging Window: **10:04 – 05:23**
Transit: **01:44 | 62°**

C-11 HD: Primary Focus

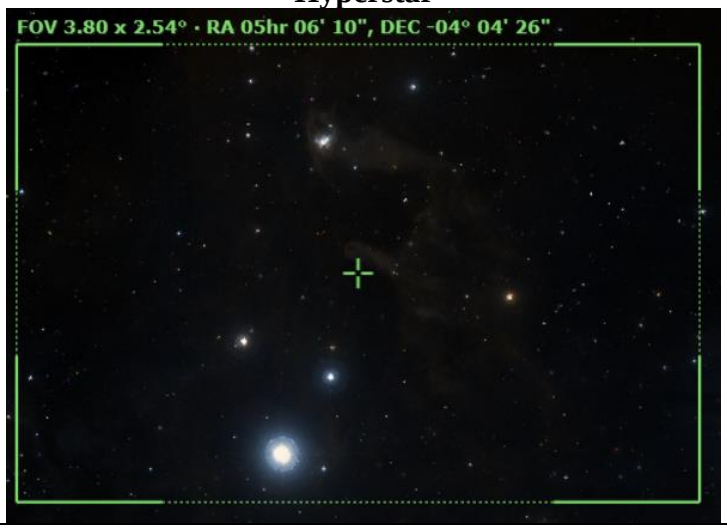
Prospective Imaging Objects – November 01, 2024

Crystal Ball Nebula (NGC 1514) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Taurus** Coordinates: **04hr 09’ 17”** **30° 46’ 35”** Close Star: **SAO-56799** Catalog Objects: NGC-1514 Imaging Window: **10:16 – 05:23** Transit: **01:46 | 87°**	**C-11 HD: Primary Focus** 
Cleopatra’s Eye (NGC 1535) Config: |C11HD |ZWO6200MC| Type: **Planetary Nebula** Constellation: **Eridanus** Coordinates: **04hr 14’ 16”** **-12° 44’ 20”** Close Star: **SAO-131907** (Rigel) Catalog Objects: NGC-1535 Imaging Window: ***11:45 – 03:59** Transit: **01:51 | 44°**	**C-11 HD: Primary Focus** 
Hind’s Variable Nebula (NGC 1555) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Taurus** Coordinates: **04hr 21’ 54”** **19° 32’ 00”** Close Star: **SAO-94027** (Aldebaran) Catalog Objects: NGC-1555 Imaging Window: **10:50 – 05:15** Transit: **01:59 | 76°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – November 01, 2024

Hyades (Mel 25) Config: **C11-HD | HS | ZWO6200MC** Type: **Open Cluster** Constellation: **Taurus** Coordinates: **04hr 26’ 34”** **15° 31’ 39”** Close Star: SAO-56840 Catalog Objects: Mel 25 Imaging Window: **11:03 – 05:17** Transit: **02:07 | 73°**	**C-11 HD: HyperStar v4** 
Trifid of the North (NGC 1579) Config: |C11HD|ZWO6200MC| Type: **Bright Nebula** Peak: Constellation: **Perseus** Coordinates: **04hr 30’ 12”** **35° 16’ 60”** Close Star: **SAO-56799** Catalog Objects: NGC-1579 Imaging Window: **10:30 – 05:23** Transit: **02:07 | 88°**	**C-11 HD: Primary Focus** 
Witch Head Nebula (IC 2118) Config: **C11-HD | HS | ZWO6200MC** Type: **Bright Nebula** Peak: Constellation: **Eridanus** Coordinates: **05hr 05’ 19.872”** **-06° 56’ 00.365”** Close Star: SAO-131794 Catalog Objects: IC 2118 Imaging Window: ***12:11 – 05:17** Transit: **02:39 | 49°**	**C-11 HD: HyperStar v4** 

Prospective Imaging Objects – November 01, 2024

Witch Head Nebula (IC 2118) Config: |C11HD|ZWO6200MC| Type: **Bright Nebula** Peak: Constellation: **Eridanus** Coordinates: **05hr 07' 07"** **-06° 20' 07"** Close Star: SAO-131794 Catalog Objects: IC 2118 Imaging Window: ***12:11 – 05:17** Transit: **02:39 | 49°**	**C-11 HD: Primary Focus** 
Foxface Nebula (NGC 1788) Config: |C11|HS|ZWO6200MCc| Type: **Bright Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 06' 10"** **-04° 04' 26"** Close Star: SAO-131794 Catalog Objects: NGC 1788 Imaging Window: **12:57 – 04:38** Transit: **02:44**	**Hyperstar** 
Foxface Nebula (NGC 1788) Config: |C11-HD|FR|ZWO6200MC| Type: **Bright Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 05' 52"** **-03° 22' 22"** Close Star: SAO-131794 Catalog Objects: NGC 1788 Imaging Window: **12:57 – 04:38** Transit: **02:44**	**C-11 HD: Focal Reducer** 

Prospective Imaging Objects – November 01, 2024

Foxface Nebula (NGC 1788) Config: |C11HD|ZWO6200MC| Type: **Bright Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 06' 26"** **-03° 20' 13"** Close Star: SAO-131794 Catalog Objects: NGC 1788 Imaging Window: **12:57 – 04:38** Transit: **02:44**	**C-11 HD: Primary Focus** 
Flaming Star Nebula (IC-405) Config: **C11-HD | HS | ZWO6200MC** Type: **Bright Nebula** Peak: Constellation: **Auriga** Coordinates: **05hr 19' 38"** **33° 49' 10"** Close Star: SAO-77168 (Elnath) Catalog Objects: IC 405, IC 410 Imaging Window: **11:19 – 05:23** Transit: **02:54 | 89°**	**C-11 HD: HyperStar v4**  Flaming Star Nebula (IC-405, IC-410, IC-417) Constellation: Auriga
Flaming Star Nebula (IC 405) Config: |C11-HD|FR|ZWO6200MC| Type: **Bright Nebula** Peak: Constellation: **Auriga** Coordinates: **05hr 15' 55"** **34° 29' 08"** Close Star: SAO-77168 (Elnath) Catalog Objects: IC 405 Imaging Window: **11:19 – 05:23** Transit: **02:54 | 89°**	**C-11 HD: Focal Reducer**  Flaming Star Nebula (IC-405) Constellation: Auriga

Prospective Imaging Objects – November 01, 2024

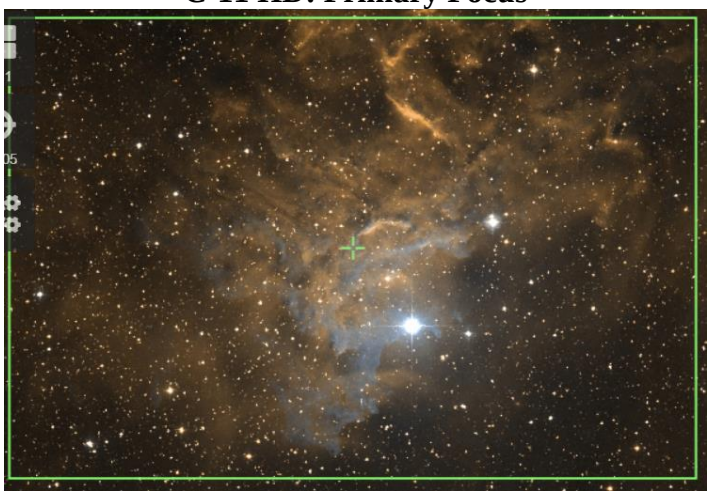
Flaming Star Nebula (IC 405)
Config: |C11-HD|ZWO6200MC|

Type: **Bright Nebula**
Peak:
Constellation: **Auriga**
Coordinates:
05hr 16’ 37”
34° 23’ 47”

Close Star: SAO-77168 (Elnath)
Catalog Objects: IC 405

Imaging Window: **11:19 – 05:23**
Transit: **02:54 | 89°**

C-11 HD: Primary Focus



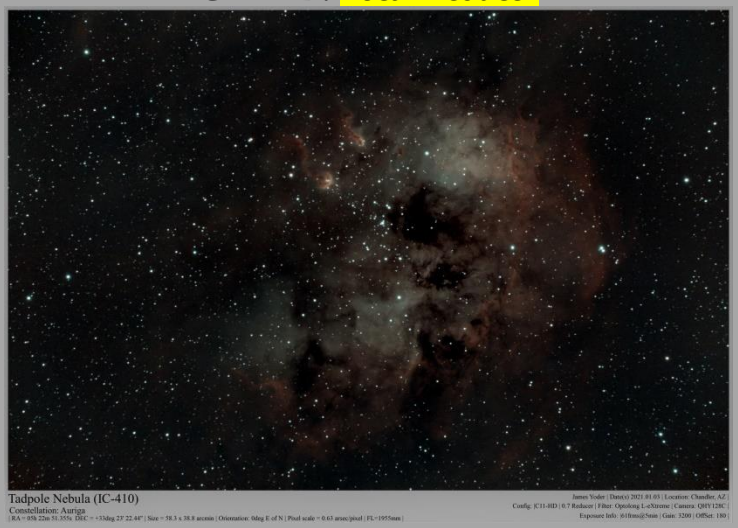
Tadpoles (IC 410)
Config: |C11-HD|FR|ZWO6200MC|

Type: **Diffuse Nebula**
Peak:
Constellation: **Auriga**
Coordinates:
05hr 22’ 54”
33° 23’ 31”

Close Star: SAO-77168 (Elnath)
Catalog Objects: IC 410

Imaging Window: **11:25 – 05:23**
Transit: **02:59 | 90°**

C-11 HD: Focal Reducer



Tadpoles (IC 410)
Config: |C11HD|ZWO6200MC|

Type: **Diffuse Nebula**
Peak:
Constellation: **Auriga**
Coordinates:
05hr 22’ 37”
33° 23’ 03”

Close Star: SAO-77168 (Elnath)
Catalog Objects: IC 410

Imaging Window: **11:25 – 05:23**
Transit: **02:59 | 90°**

C-11 HD: Primary Focus

Prospective Imaging Objects – November 01, 2024

M-79 (NGC-1904)

Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**
Peak:
Constellation: **Lepus**
Coordinates:
05hr 24’ 11”
-24° 31’ 25”

Close Star: SAO-170457
Catalog Objects: M 79

Imaging Window: ***01:03 – 05:10**
Transit: **03:01 | 32°**

C-11 HD: Primary Focus

Spirograph Nebula (IC 418)

Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**
Constellation: **Lepus**
Coordinates:
05hr 27’ 28”
-12° 41’ 48”

Close Star: SAO-132542 (Saiph)
Catalog Objects: IC-418

Imaging Window: ***12:59 – 05:10**
Transit: **03:04 | 44°**

C-11 HD: Primary Focus

The Spider and the Fly

(M-77, NGC-1055, NGC-1931)

Config: |C11-HD|FR|ZWO6200MC|
Type: **Diffuse Nebula**
Peak:
Constellation: **Auriga**

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

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

Imaging Window: **11:30 – 05:23**
Transit: **03:05 | 89°**

C-11 HD: Focal Reducer
Composite!

Prospective Imaging Objects – November 01, 2024

The Spider (IC 417) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Auriga** Coordinates: **05hr 28' 03"** **34° 22' 58"** Close Star: SAO-77168 (Elnath) Catalog Objects: IC 417 Imaging Window: **11:30 – 05:23** Transit: **03:05 | 89°**	**C-11 HD: Primary Focus** 
Starfish Cluster (M-38) Config: |C11HD|ZWO6200MC| Type: **Open Cluster** Constellation: **Auriga** Coordinates: **05hr 28' 43"** **35° 51' 18"** Close Star: **SAO-77168** (Elnath) Catalog Objects: M-38 Imaging Window: **11:28 – 05:23** Transit: **03:05 | 88°**	**C-11 HD: Primary Focus** 
The Fly (NGC 1931) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Auriga** Coordinates: **05hr 31' 24"** **34° 15' 00"** Close Star: SAO-77168 (Elnath) Catalog Objects: NGC 1931 Imaging Window: **11:33 – 05:23** Transit: **03:08 | 89°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – November 01, 2024

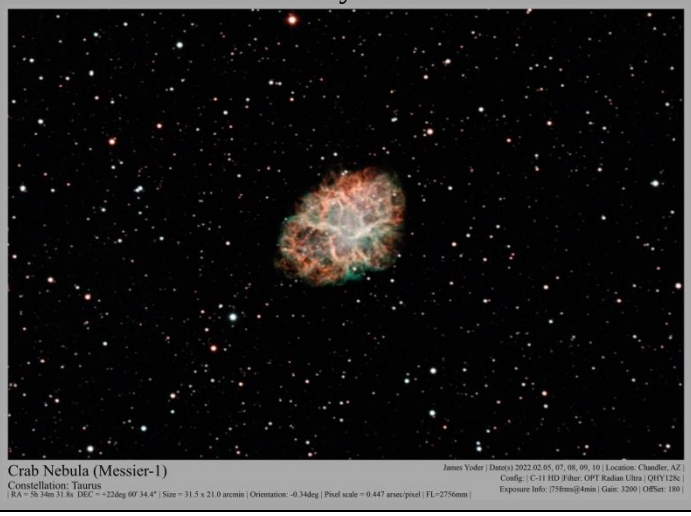
Crab Nebula (M 1)
Config: |C1|LF|ZWO6200MC|

Type: **Planetary Nebula**
Peak:
Constellation: **Taurus**
Coordinates:
05hr 34’ 30”
22° 00’ 59.9”

Close Star: SAO-77336
Catalog Objects: M 1

Imaging Window: **11:57 – 05:23**
Transit: **03:11 | 79°**

Primary Focus



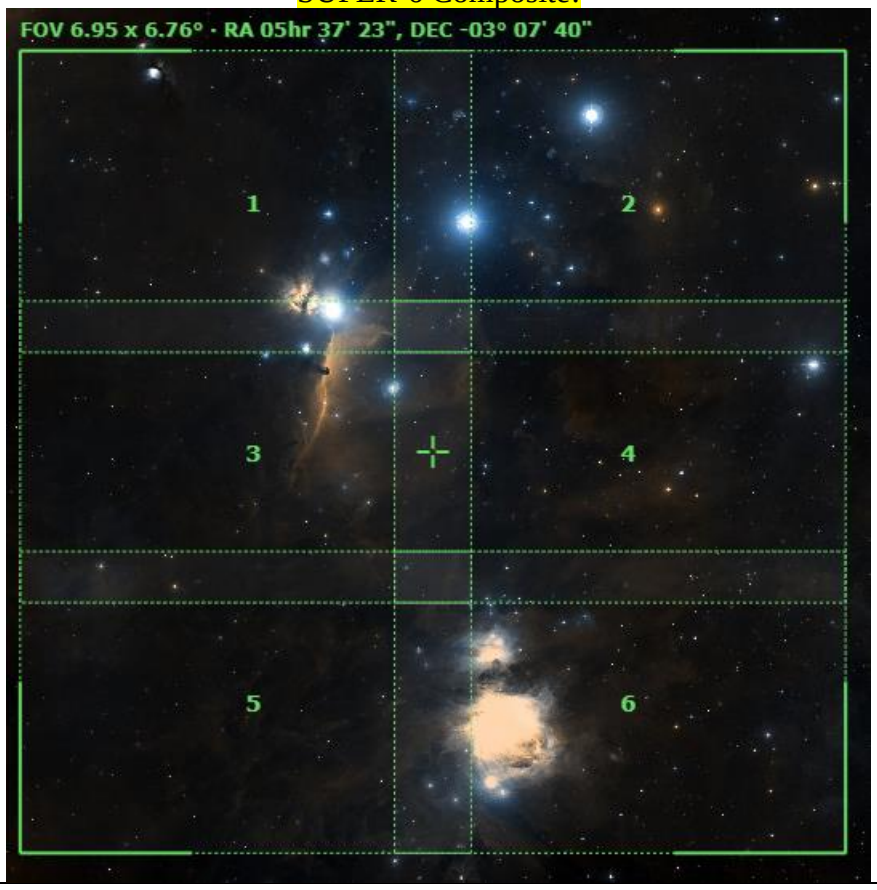
The Orion Complex
Config: **C11 | HS | ZWO6200MC**

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

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

Imaging Window: **12:29 – 05:23**
Transit: **03:12**

C-11 HD: HyperStar v4
SUPER-6 Composite!



Prospective Imaging Objects – November 01, 2024

The Orion Nebula (M 42)
Config: **C11-HD | HS | ZWO6200MC**

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

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

Imaging Window: **12:29 – 05:23**
Transit: **03:12**

C-11 HD: HyperStar v4

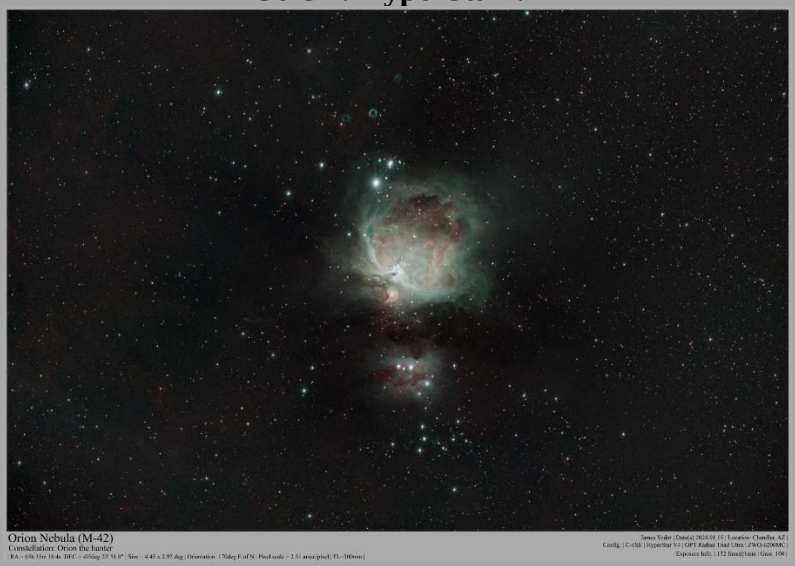
The Orion Nebula (M 42)
Config: **C6-SE | HS | ZWO6200MC (Cropped)**

Type: **Diffuse Nebula**
Peak:
Constellation: **Orion**
Coordinates:
05hr 35’ 18.4”
-05° 23’ 51.0”

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

Imaging Window: **12:29 – 05:23**
Transit: **03:12**

C6-SE: HyperStar v4



The Orion Nebula (M 42)
Config: |C1|LF|ZWO6200MC|

Type: **Diffuse Nebula**
Peak:
Constellation: **Orion**
Coordinates:
05hr 35’ 09”
-05° 24’ 32”

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

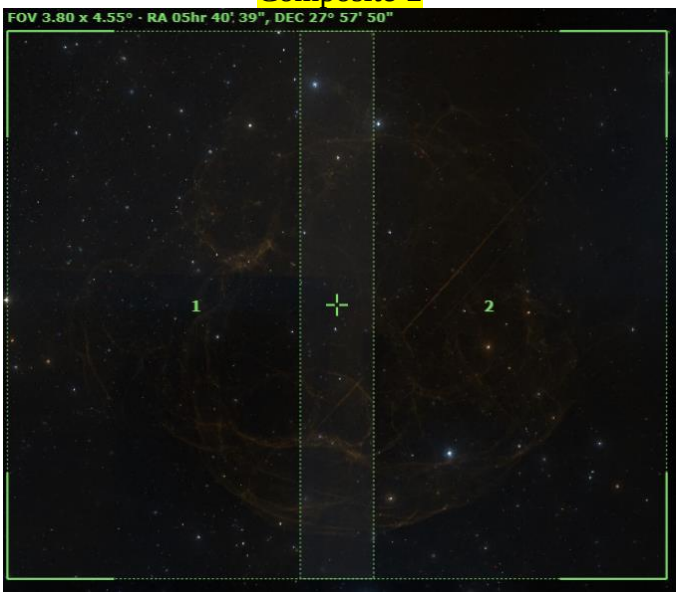
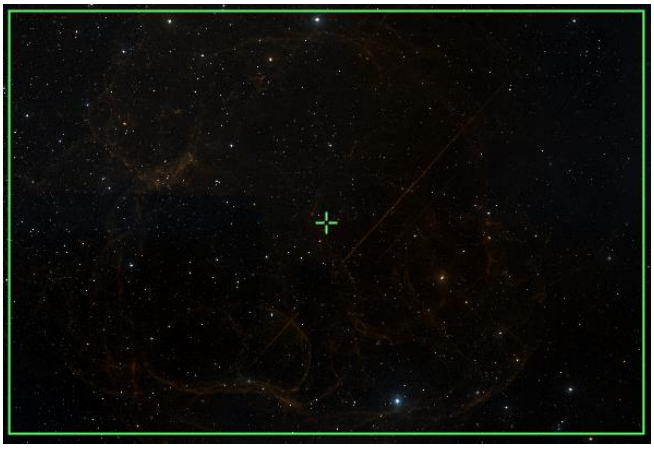
Imaging Window: **12:29 – 05:23**
Transit: **03:12**

Primary Focus

Prospective Imaging Objects – November 01, 2024

Running Man Nebula (NGC 1977) Config: |C6-HD|FR|ZWO6200MC| Type: **Bright Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 35' 18.1"** **-04° 41' 25.9"** Close Star: SAO-132542 (Saiph) Catalog Objects: NGC-1977 Imaging Window: **01:35 – 05:23** Transit: **03:12 | 52°**	**C-6SE: Primary Focus** 
Running Man Nebula (NGC 1977) Config: |C11HD|ZWO6200MC| Type: **Bright Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 35' 27"** **-04° 53' 09"** Close Star: SAO-132542 (Saiph) Catalog Objects: NGC-1977 Imaging Window: **01:35 – 05:23** Transit: **03:12 | 52°**	**C-11 HD: Primary Focus** 
M-36 (NGC-1960) Config: |C11HD|ZWO6200MC| Type: **Open Cluster** Constellation: **Auriga** Coordinates: **05hr 36' 18"** **34° 08' 27"** Close Star: **SAO-77168** (Elnath) Catalog Objects: M-36/NGC-1960 Imaging Window: **11:08 – 05:23** Transit: **03:13 | 89°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – November 01, 2024

Simeis 147 (SH2-240) Config: **C11-HD | HS | ZWO6200MC** Type: **Diffuse Nebula** Constellation: **Taurus** Camera Rotation - 90° Coordinates: Frame 01 RA: **05hr 45' 38"** DEC: **27º 56' 31"** Frame 02 RA: **05hr 36' 28"** DEC: **27º 56' 31"** Close Star: **SAO-77168** (Elnath) Catalog Objects:SH2-240 Imaging Window: **11:52 – 05:23** Transit: **03:18 | 85°**	**C-11 HD: HyperStar v4** Composite-2 
Simeis 147 (SH2-240) Config: **C11-HD | HS | ZWO6200MC** Type: **Diffuse Nebula** Constellation: **Taurus** Coordinates: **05hr 39' 04"** **28° 00' 00"** Close Star: **SAO-77168** (Elnath) Catalog Objects:SH2-240 Imaging Window: **11:52 – 05:23** Transit: **03:18 | 85°**	**C-11 HD: HyperStar v4** 

Prospective Imaging Objects – November 01, 2024

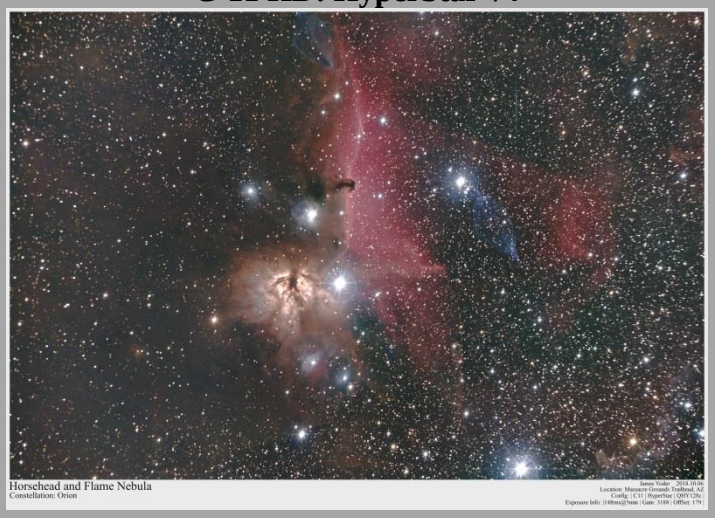
Flame and Horsehead Nebula
(NGC 2024, B 33)
Config: **C11-HD | HS | ZWO6200MC**

Type: **Diffuse/Dark Nebula**
Peak:
Constellation: **Orion**
Coordinates:
05hr 40’ 04”
-02° 28’ 13”

Close Star: SAO-132542 (Saiph)
Catalog Objects: NGC-2024, B-33

Imaging Window: **01:23 – 05:23**
Transit: **03:18 | 54°**

C-11 HD: HyperStar v4



Flame Nebula (NGC 2024)
Config: |C11-HD|FR|ZWO6200MC|
|

Type: **Diffuse Nebula**
Peak:
Constellation: **Orion**
Coordinates:
05hr 41’ 30”
-01° 45’ 21”

Close Star: SAO-132542 (Saiph)
Catalog Objects: NGC-2024

Imaging Window: **01:23 – 05:23**
Transit: **03:18 | 55°**

C-11 HD: Focal Reducer

Flame Nebula (NGC 2024)
Config: |C11HD|ZWO6200MC|

Type: **Diffuse Nebula**
Peak:
Constellation: **Orion**
Coordinates:
05hr 41’ 45.843”
-01° 49’ 31.401”

Close Star: SAO-132542 (Saiph)
Catalog Objects: NGC-2024

Imaging Window: **01:23 – 05:23**
Transit: **03:18 | 55°**

C-11 HD: Primary Focus

Prospective Imaging Objects – November 01, 2024

Horsehead Nebula (B 33)
Config: |C1|LF|ZWO6200MC|

Type: **Dark Nebula**
Peak:
Constellation: **Orion**
Coordinates:
05hr 40’ 59”
-02° 31’ 47”

Close Star: SAO-132542 (Saiph)
Catalog Objects: B 33

Imaging Window: **01:26 – 05:23**
Transit: **03:18 | 54°**

Primary Focus

NGC 2022
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**
Peak:
Constellation: **Orion**
Coordinates:
05hr 42’ 07”
09° 04’ 55”

Close Star: SAO-112740 (Bellatrix)
Catalog Objects: NGC-2022

Imaging Window: **12:38 – 05:23**
Transit: **03:19 | 66°**

C-11 HD: Primary Focus

NGC 1961
Config: |C11HD|ZWO6200MC|

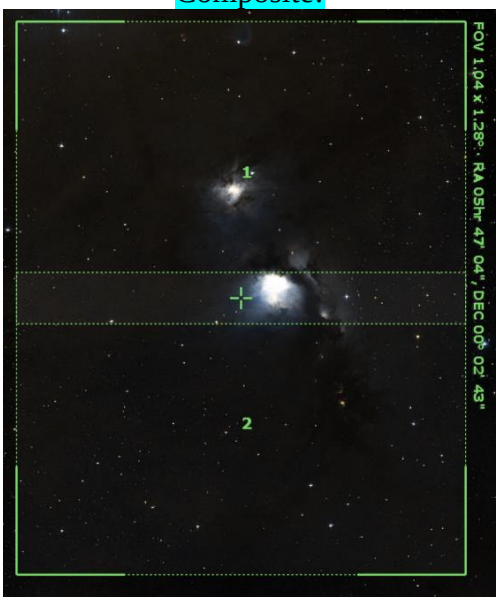
Type: **Spiral Galaxy**
Peak:
Constellation: **Camelopardalis**
Coordinates:
05hr 43’ 27”
69° 20’ 48”

Close Star: SAO-40750 (Menkalinan)
Catalog Objects: NGC-1961

Imaging Window: **12:07 – 05:23**
Transit: **03:19 | 54°**

C-11 HD: Primary Focus

Prospective Imaging Objects – November 01, 2024

M-78 Config: |C11-HD|FR|ZWO6200MC| Type: **Dark Nebula** Peak: Constellation: **Orion** Frame 01 RA: **05hr 47' 05"**DEC: **00° 20' 09"** Frame 02 RA: **05hr 47' 05"**DEC: **-00° 14' 43"** Close Star: SAO-132346 (Alnilam) Catalog Objects: M-78 Imaging Window: **01:18 – 05:23** Transit: **03:23**	**C-11 HD: Focal Reducer** Composite! 
M-78 Config: |C11-HD|FR|ZWO6200MC| Type: **Bright and Dark Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 46' 59"** **00° 08' 59"** Close Star: SAO-132346 (Alnilam) Catalog Objects: M-78 Imaging Window: **01:18 – 05:23** Transit: **03:23**	**C-11 HD: Focal Reducer** 

Prospective Imaging Objects – November 01, 2024

M-78

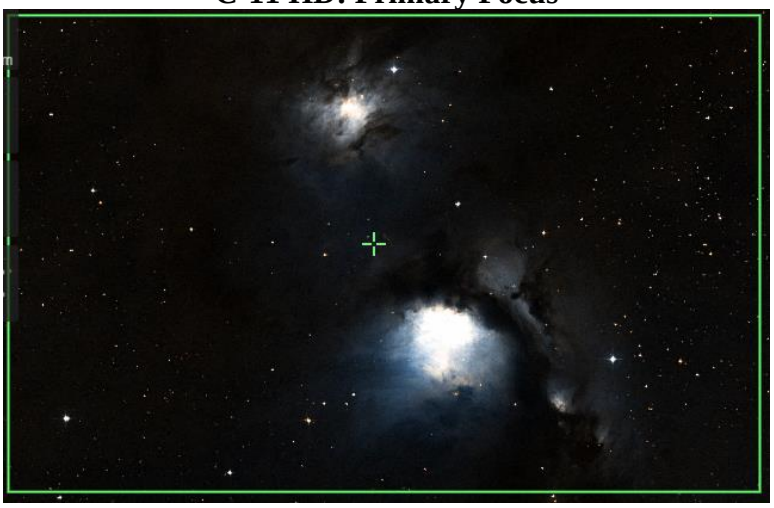
Config: |C11HD|ZWO6200MC|

Type: **Bright and Dark Nebula**
Peak:
Constellation: **Orion**
Coordinates:
05hr 47’ 03”
00° 09’ 46”

Close Star: SAO-132346 (Alnilam)
Catalog Objects: M-78

Imaging Window: **01:18 – 05:23**
Transit: **03:23**

C-11 HD: Primary Focus



Salt and Pepper Cluster(M-37)

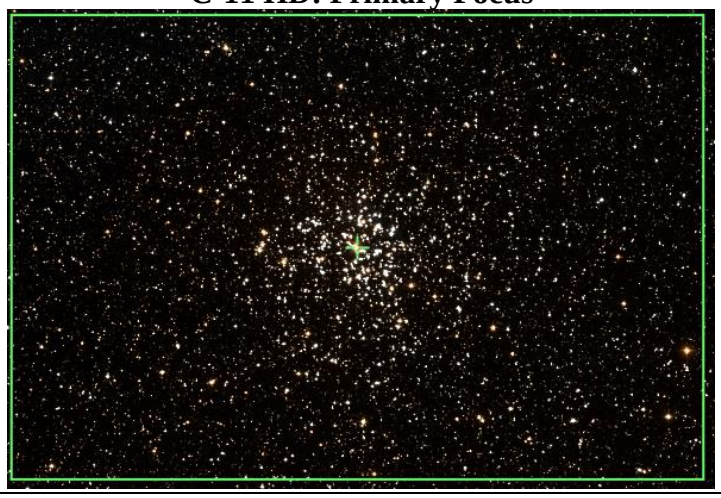
Config: |C11HD|ZWO6200MC|

Type: **Open Cluster**
Constellation: **Auriga**
Coordinates:
05hr 52’ 18”
32° 33’ 11”

Close Star: **SAO-77168** (Elnath)
Catalog Objects: M-37/NGC-2099

Imaging Window: **11:56 – 05:23**
Transit: **03:29 | 89°**

C-11 HD: Primary Focus



LDN-1622 (Region 01)

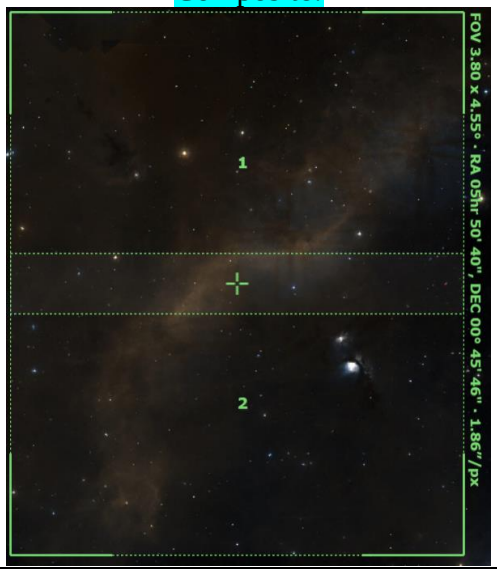
Config: |C11HD|ZWO6200MC|

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

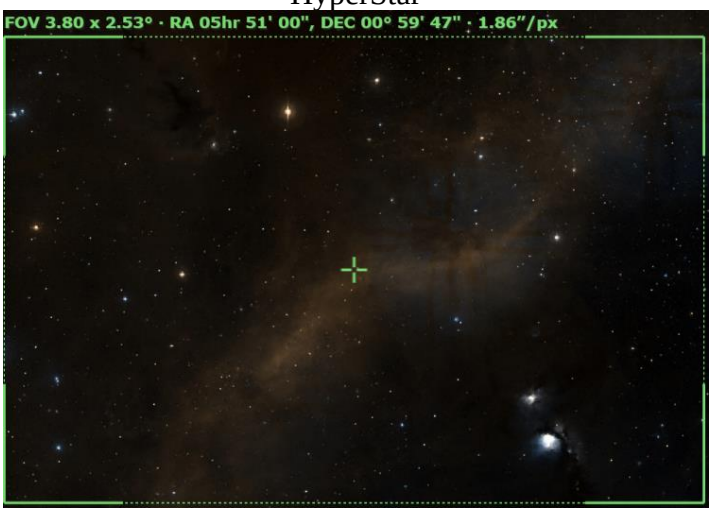
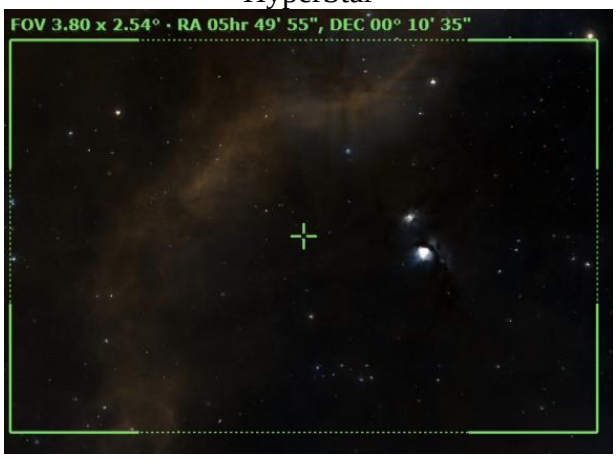
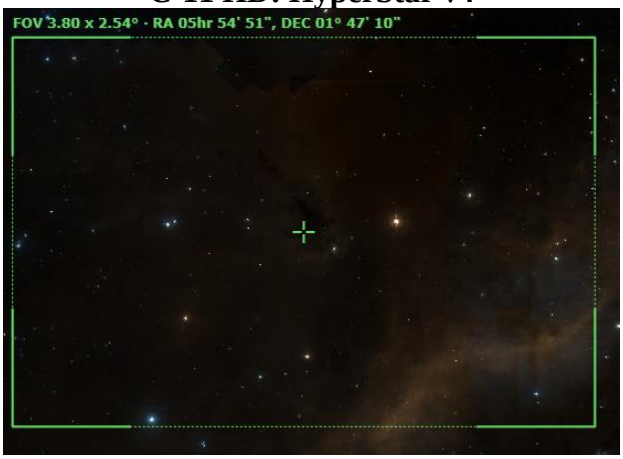
Coordinates:
Pane 1: **05hr 50' 40", 01° 46' 30"**
Pane 2, **05hr 50' 40", 00° 14' 57**

Close Star: SAO-132346 (Alnilam)
Catalog Objects: LDN-1622
Imaging Window: **01:18 – 05:23**
Transit: **03:31 | 59°**

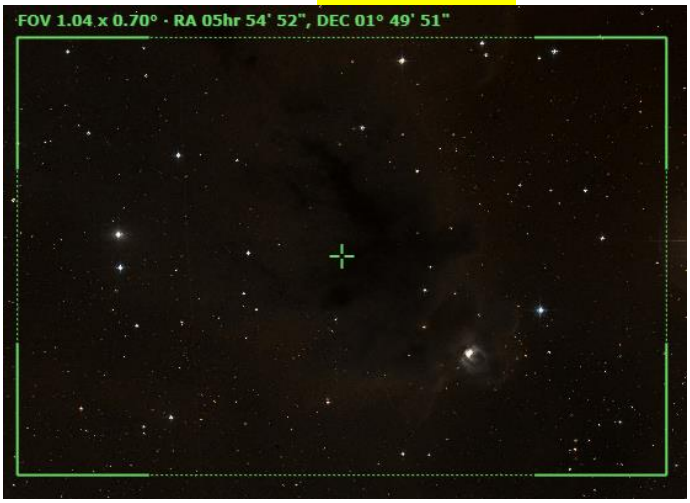
C-11 HD: HyperStar v4
Composite!



Prospective Imaging Objects – November 01, 2024

LDN-1622 (Region 01) Config: |C11HD|ZWO6200MC| Type: **Dark Nebula & Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 51' 00"** **00° 59' 47"** Close Star: SAO-132346 (Alnilam) Catalog Objects: LDN-1622 Imaging Window: **01:18 – 05:23** Transit: **03:31 | 59°**	HyperStar 
LDN-1622 (Region 02) Config: |C11HD|ZWO6200MC| Type: **Dark Nebula & Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 49' 55"** **00° 10' 35"** Close Star: SAO-132346 (Alnilam) Catalog Objects: LDN-1622 Imaging Window: **01:18 – 05:23** Transit: **03:31 | 59°**	HyperStar 
LDN-1622 (Region 03) Config: **C11-HD | HS | ZWO6200MC** Type: **Bright and Dark Nebula** Peak: Coordinates: **05hr 54' 51"** **01° 47' 10"** Close Star: SAO-112740(Bellatrix) Catalog Objects: LDN-1622 Imaging Window: **01:18 – 05:23** Transit: **03:31 | 59°**	**C-11 HD: HyperStar v4** 

Prospective Imaging Objects – November 01, 2024

LDN 1622 Config: |C11HD|ZWO6200MC| Type: **Dark Nebula** Peak: Constellation: **Orion** Camera Rotation - 90° Frame 01 RA: **05hr 56' 28"**DEC: **01° 58' 32"** Frame 02 RA: **05hr 54' 08"**DEC: **01° 58' 35"** Close Star: SAO-132346 (Alnilam) Catalog Objects: LDN-1622 Imaging Window: **01:18 – 05:23** Transit: **03:31 | 59°**	**C-11 HD: Focal Reducer** Composite! 
LDN-1622 Config: |C11HD|FR|ZWO6200MC| Type: **Bright and Dark Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 54' 52"** **01° 49' 51"** Close Star: SAO-112740(Bellatrix) Catalog Objects: LDN-1622 Imaging Window: **01:18 – 05:23** Transit: **03:31 | 59°**	**C-11 HD: Focal Reducer** 
LDN 1622 Config: |C11HD|ZWO6200MC| Type: **Dark Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 54' 55"** **01° 49' 49"** Close Star: SAO-132346 (Alnilam) Catalog Objects: LDN-1622 Imaging Window: **01:18 – 05:23** Transit: **03:31 | 59°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – November 01, 2024

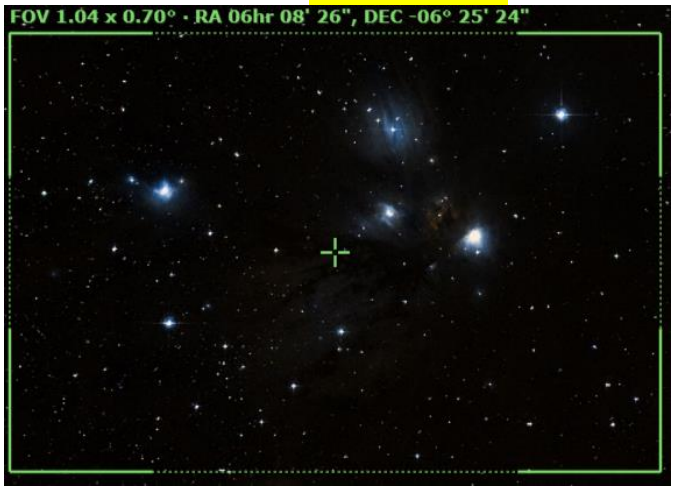
Angel Nebula (NGC 2170)
Config: |C11-HD|FR|ZWO6200MC|

Type: **Bright and Dark Nebula**
Peak:
Constellation: **Monoceros**
Coordinates:
06hr 08’ 26”
-06° 25’ 24”

Close Star: SAO-132542 (Saiph)
Catalog Objects: NGC-2170

Imaging Window: **02:19 – 05:23**
Transit: **03:44**

C-11 HD: Focal Reducer



Angel Nebula (NGC 2170)
Config: |C11-HD |ZWO6200MC|

Type: **Bright and Dark Nebula**
Peak:
Constellation: **Monoceros**
Coordinates:
06hr 08’ 26”
-06° 25’ 24”

Close Star: SAO-132542 (Saiph)
Catalog Objects: NGC-2170

Imaging Window: **02:19 – 05:23**
Transit: **03:44**

C-11 HD: Primary Focus

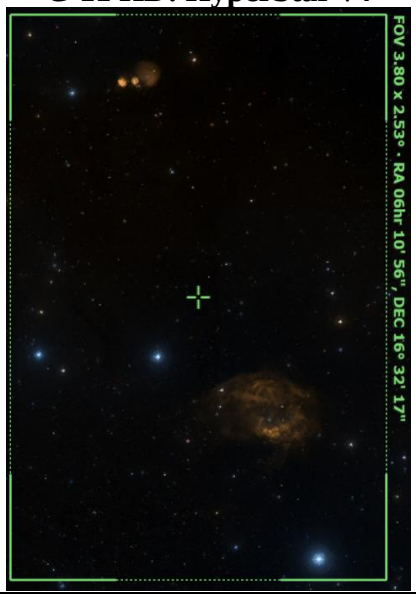
IC-2162 & SH 2-261
Config: |C11HD|ZWO6200MC|

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

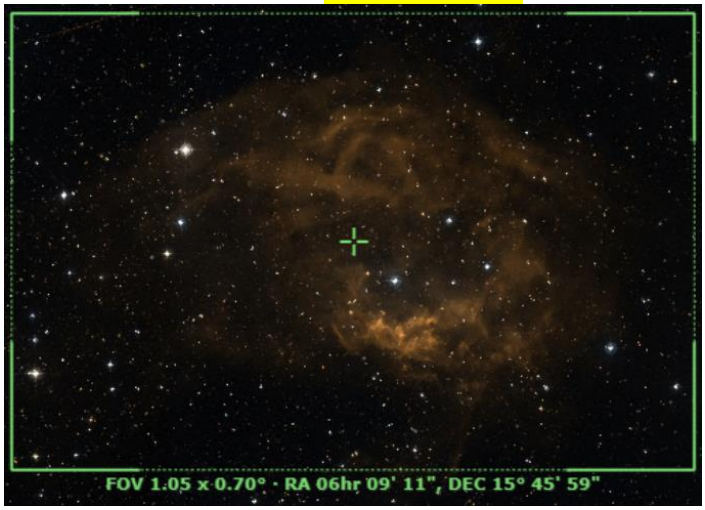
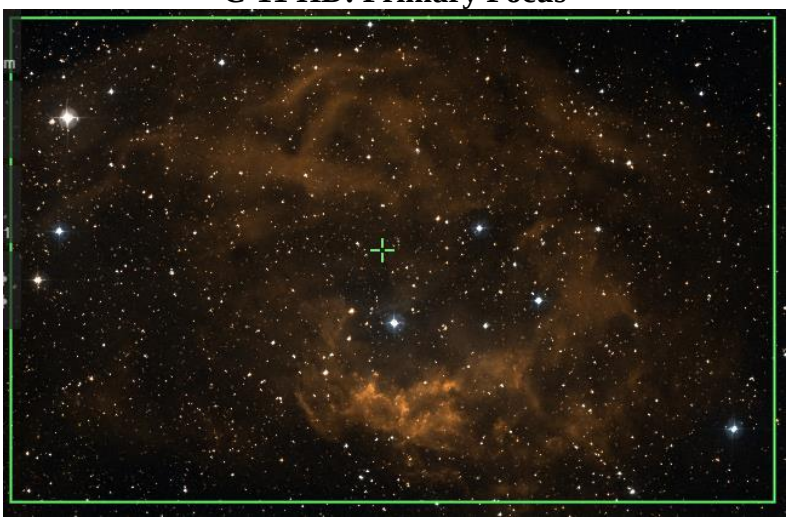
Close Star: SAO-78297 (Calix)
Catalog Objects: IC-2162 Sh 2-261

Imaging Window: **12:46 – 05:23**
Transit: **03:45 | 72°**

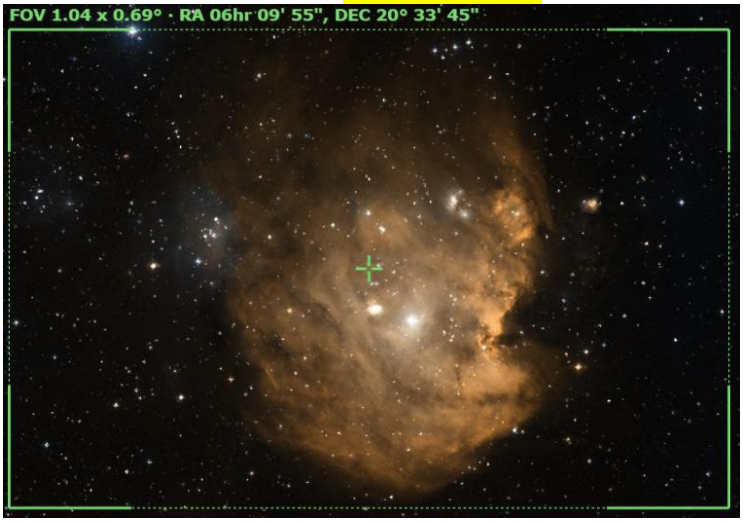
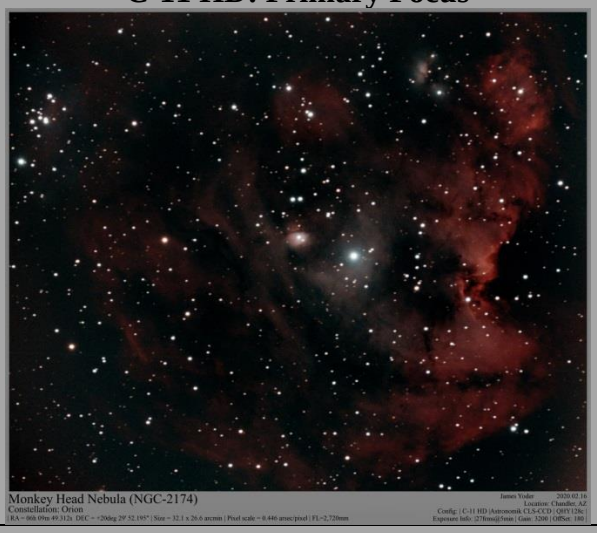
C-11 HD: HyperStar v4



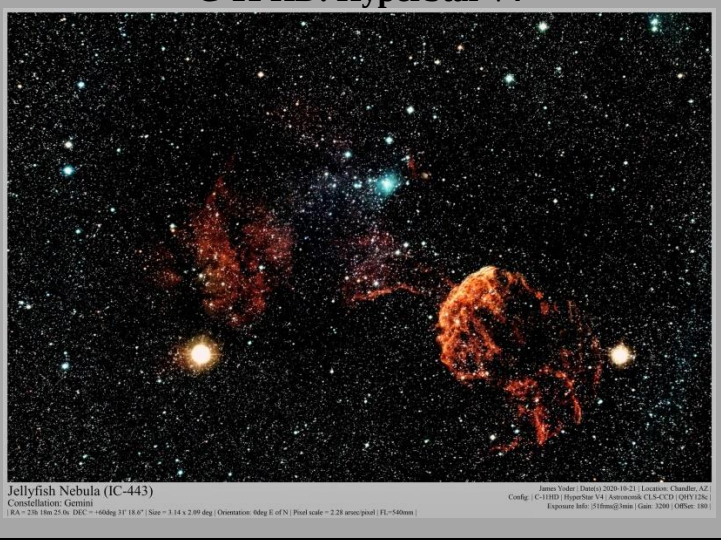
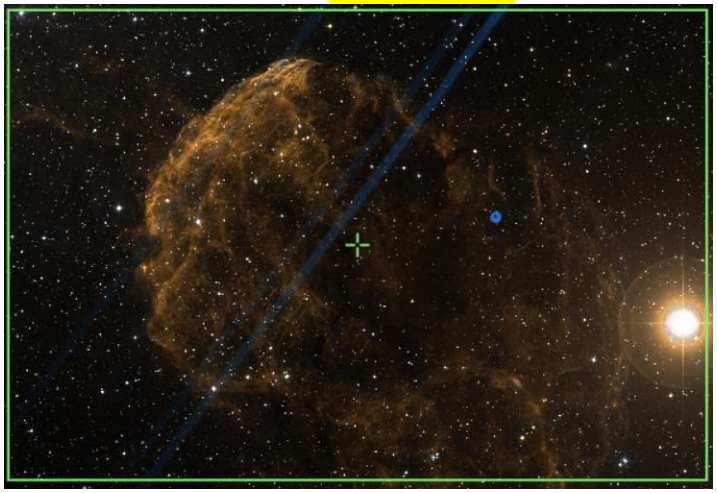
Prospective Imaging Objects – November 01, 2024

Lower's Nebula (Sh 2-261) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Orion** Coordinates: **06hr 09' 11"** **15° 45' 59"** Close Star: **SAO-78297** (Calix) Catalog Objects: Sh 2-261 Imaging Window: **12:46 – 05:53** Transit: **03:45 | 72°**	**C-11 HD: Focal Reducer** 
Lower's Nebula (Sh 2-261) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Orion** Coordinates: **06hr 08' 59"** **15° 46' 39"** Close Star: **SAO-78297** (Calix) Catalog Objects: Sh 2-261 Imaging Window: **12:46 – 05:53** Transit: **03:45 | 72°**	**C-11 HD: Primary Focus** 
M-35, NGC-2158 Config: |C11-HD|FR|ZWO6200MC| Type: **Open Cluster Pair** Constellation: **Gemini** Coordinates: **06hr 08' 39"** **24° 14' 48"** Close Star: **SAO-95912** (Alhena) Catalog Objects: M-35/NGC-2168, NGC-2158 Imaging Window: **12:27 – 05:23** Transit: **03:46 | 81°**	**C-11 HD: Focal Reducer** 

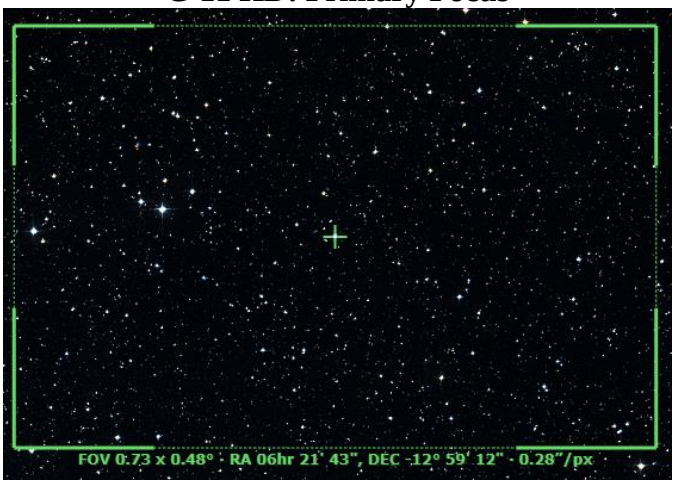
Prospective Imaging Objects – November 01, 2024

Monkey Head (NGC-2174) Config: |C11-HD|FR|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Orion** Coordinates: **06hr 09' 50"** **20° 29' 50"** Close Star: SAO-78297 (Calix) Catalog Objects: NGC-2174/Sh 2-252 Imaging Window: **12:35 – 05:23** Transit: **03:46 | 77°**	**C-11 HD: Focal Reducer** 
Monkey Head (NGC 2174) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Orion** Coordinates: **06hr 09' 50"** **20° 29' 50"** Close Star: SAO-78297 (Calix) Catalog Objects: NGC-2174/Sh 2-252 Imaging Window: **12:35 – 05:23** Transit: **03:46 | 77°**	**C-11 HD: Primary Focus** 
IC 2162 Config: |C11HD|ZWO6200MC| Type: **Bright Nebula** Peak: Constellation: **Orion** Coordinates: **06hr 12' 25"** **17° 59' 26"** Close Star: SAO-78297 (Calix) Catalog Objects: IC-2162 Imaging Window: **12:44 – 05:23** Transit: **03:50 | 75°**	**C-11 HD: Primary Focus** 

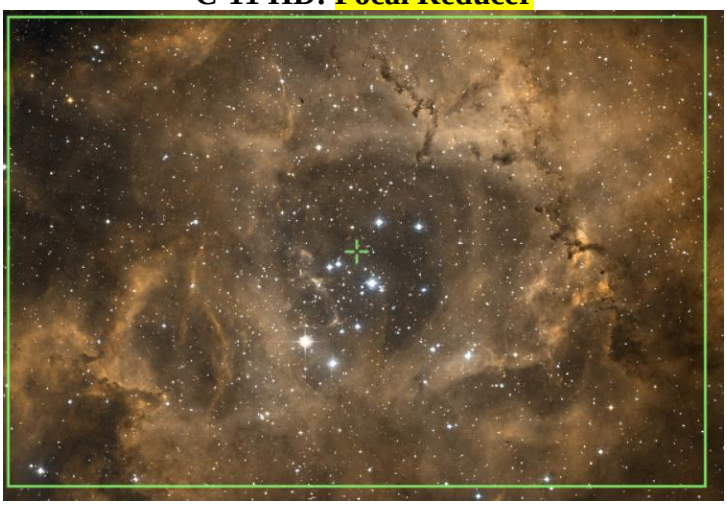
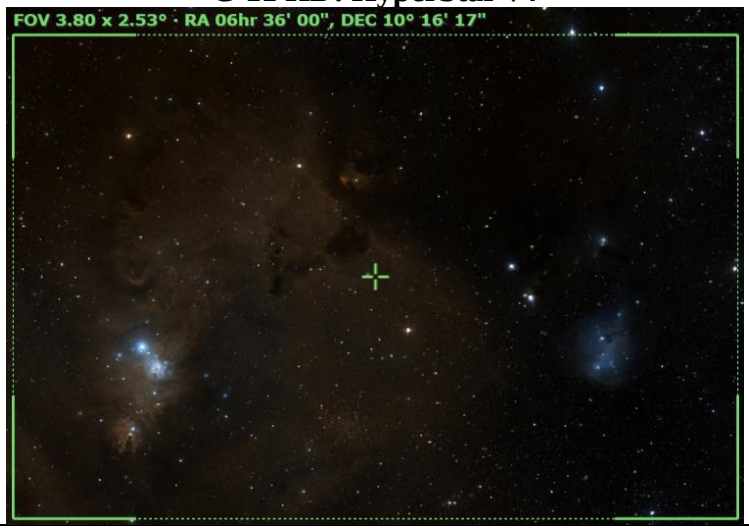
Prospective Imaging Objects – November 01, 2024

Jellyfish Nebula (IC 443) Config: **C11-HD | HS | ZWO6200MC** Type: **Supernova Remnant** Peak: Constellation: **Gemini** Coordinates: **06hr 19' 56"** **23° 06' 17"** Close Star: SAO-78297 (Calix) Catalog Objects: IC-443 Imaging Window: **12:39 – 05:23** Transit: **03:54 | 79°**	**C-11 HD: HyperStar v4** 
Jellyfish Nebula (IC 443) Config: |C11-HD|FR|ZWO6200MC| Type: **Supernova Remnant** Peak: Constellation: **Gemini** Coordinates: **06hr 16' 59"** **22° 37' 29"** Close Star: SAO-78297 (Calix) Catalog Objects: IC-443 Imaging Window: **12:39 – 05:23** Transit: **03:54 | 79°**	C11-HD: Focal Reducer 
Jellyfish Nebula (IC 443) Config: |C11|LF|ZWO6200MC| Type: **Supernova Remnant** Peak: Constellation: **Gemini** Coordinates: **06hr 16' 51"** **22° 36' 34"** Close Star: SAO-78297 (Calix) Catalog Objects: IC-443 Imaging Window: **12:39 – 05:23** Transit: **03:54 | 79°**	Primary Focus 

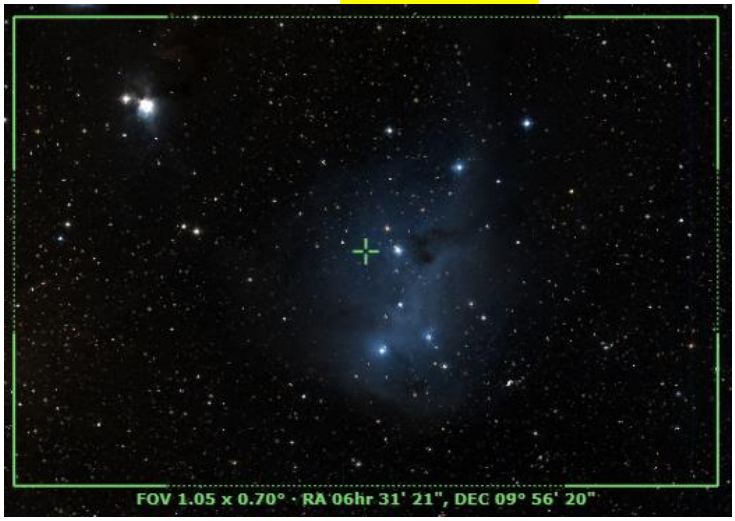
Prospective Imaging Objects – November 01, 2024

IC-2165 Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Peak: Constellation: **Canis Major** Coordinates: **06hr 21' 43"** **-12° 59' 12"** Close Star: Catalog Objects: IC-2165 Imaging Window: ***01:55 – 05:23** Transit: **03:58 | 44°**	**C-11 HD: Primary Focus** 
SH 2-249 Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Gemini** Coordinates: **06hr 19' 15"** **23° 24' 58"** Close Star: SAO-78297 (Calix) Catalog Objects: SH 2-249 Imaging Window: **12:43 – 05:23** Transit: **03:59| 80°**	**C-11 HD: Primary Focus** 
Rosette Nebula (NGC 2237) Config: **C11-HD | HS | ZWO6200MC** Type: **Diffuse Nebula** Constellation: **Monoceros** Coordinates: **06hr 31' 53.37"** **04° 50' 45.29"** Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2237 ,NGC-2244 Imaging Window: **01:41 – 05:23** Transit: **04:07 | 62°**	**C-11 HD: HyperStar v4** 

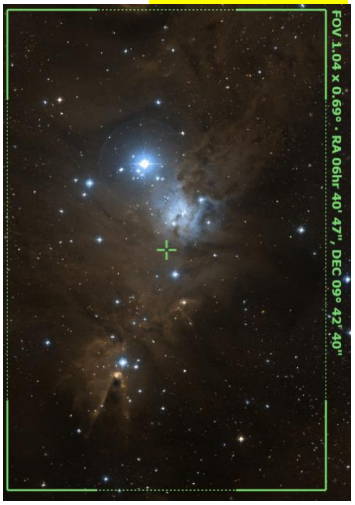
Prospective Imaging Objects – November 01, 2024

Rosette Nebula (NGC 2237) Config: |C11-HD|FR|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Monoceros** Coordinates: **06hr 32' 01"** **04° 59' 28"** Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2237 Imaging Window: **01:41 – 05:23** Transit: **04:07 | 62°**	**C-11 HD: Focal Reducer** 
Rosette Nebula (NGC 2237) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Monoceros** Coordinates: **06hr 32' 02"** **04° 58' 14"** Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2237 Imaging Window: **01:41 – 05:23** Transit: **04:07 | 62°**	**C-11 HD: Primary Focus** 
IC-2169 Config: **C11 | HS | ZWO6200MC** Type: **Bright Nebula** Peak: Constellation: **Monoceros** Coordinates: **06hr 36' 00"** **10° 16' 17"** Close Star: SAO-95912 (Alhena) Catalog Objects: IC-2169 Imaging Window: **01:24 – 05:23** Transit: **04:08 | 80°**	**C-11 HD: HyperStar v4** 

Prospective Imaging Objects – November 01, 2024

IC 2169 Config: |C11-HD|FR|ZWO6200MC| Type: **Bright Nebula** Peak: Constellation: **Monoceros** Coordinates: **06hr 31' 21"** **09° 56' 20"** Close Star: SAO-95912 (Alhena) Catalog Objects: IC-2169 Imaging Window: **01:24 – 05:23** Transit: **04:08 | 80°**	**C-11 HD: Focal Reducer** 
IC 2169 Config: |C11HD|ZWO6200MC| Type: **Bright Nebula** Peak: Constellation: **Monoceros** Coordinates: **06hr 31' 36"** **09° 58' 16"** Close Star: SAO-95912 (Alhena) Catalog Objects: IC-2169 Imaging Window: **01:24 – 05:23** Transit: **04:08 | 80°**	**C-11 HD: Primary Focus** 
Hubble's Variable Nebula (NGC 2261) Config: |C11HD| ZWO6200MC| Type: **Reflection Nebula** Constellation: **Monoceros** Coordinates: **06hr 39' 12"** **08° 45' 00"** Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2261 Imaging Window: **01:36 – 05:23** Transit: **04:16 | 65°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – November 01, 2024

Christmas Tree & Cone Config: |C11-HD|FR|ZWO6200MC| Type: **Diffuse Nebula** Coordinates: Pane 1: **06hr 40' 53", 10º 07' 47"** Pane 2, **06hr 40' 53", 09º 34' 40** Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2264/Sh 2-273 Imaging Window: **01:34 – 05:23** Transit: **04:17 | 67°**	**C-11 HD: Focal Reducer** Composite! 
Christmas Tree & Cone Config: |C11-HD|FR|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Monoceros** Coordinates: **06hr 40' 47"** **09° 42' 40"** Angle: **90° East** Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2264/Sh 2-273 Imaging Window: **01:34 – 05:23** Transit: **04:17 | 67°**	**C-11 HD: Focal Reducer** 
Christmas Tree Cluster (NGC 2264) Config: |C1|LF|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Monoceros** Coordinates: **06hr 40' 58.74"** **09° 53' 32.69"** Close Star: SAO-95912 (Alhena) Catalog Objects: NGC-2264/Sh 2-273 Imaging Window: **01:34 – 05:23** Transit: **04:17 | 67°**	Primary Focus 

Prospective Imaging Objects – November 01, 2024

Christmas Tree & Cone
Config: |C6FR|ZWO6200MC|

Type: **Diffuse Nebula**
Peak:
Constellation: **Monoceros**
Coordinates:
06hr 40’ 51.6”
09° 40’ 25.2”
Angle: **90° East**

Close Star: SAO-95912 (Alhena)
Catalog Objects: NGC-2264/Sh 2-273

Imaging Window: **01:34 – 05:23**
Transit: **04:17 | 67°**

C-6 HD: Focal Reducer

Cone Nebula-1 (NGC 2264)
Config: |C11HD|ZWO6200MC|

Type: **Diffuse Nebula**
Peak:
Constellation: **Monoceros**
Coordinates:
06hr 41’ 07”
09° 27’ 52”

Close Star: SAO-95912 (Alhena)
Catalog Objects: NGC-2264/Sh 2-273

Imaging Window: **01:34 – 05:23**
Transit: **04:17 | 67°**

C-11 HD: Primary Focus

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

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

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

Imaging Window: ***01:52 – 05:23**
Transit: **04:23 | 36°**

C-11 HD: Primary Focus

Prospective Imaging Objects – November 01, 2024

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

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

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

Imaging Window: ***02:10 – 05:23**
Transit: **04:39 | 48°**

C-11 HD: Primary Focus

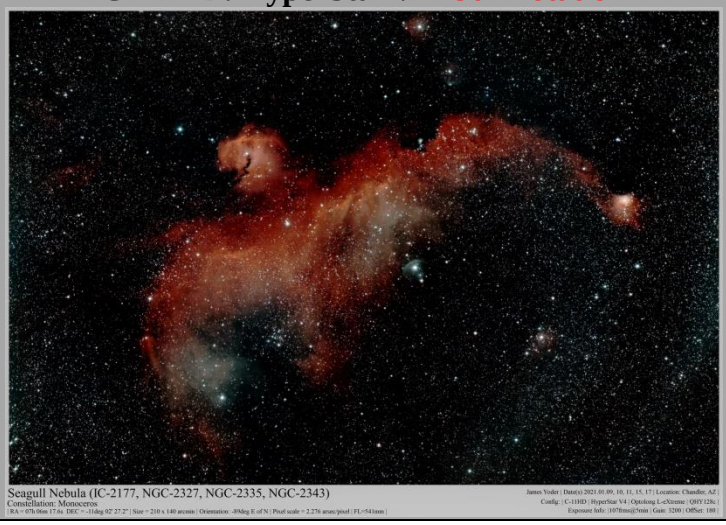
Seagull Nebula (IC-2177)
Config: |C11HD|ZWO6200MC|

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

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

Imaging Window: ***02:25 – 05:23**
Transit: **04:41 | 46°**

C-11 HD: HyperStar v4 - 90° Rotation



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

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

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

Imaging Window: ***02:25 – 05:23**
Transit: **04:41 | 46°**

C-11 HD: Primary Focus

Prospective Imaging Objects – November 01, 2024

Hourglass Nebula (NGC-2346) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Peak: Constellation: **Monoceros** Coordinates: **07hr 09' 23"** **00° 48' 22"** Close Star: SAO-115756 (Procyon) Catalog Objects: NGC-2346 Imaging Window: ***01:44 – 05:23** Transit: **04:46 | 56°**	**C-11 HD: Primary Focus** x2 
Integral Sign Galaxy (UGC 3697) Config: |C11HD|FR|ZWO6200MC| Type: **Galaxy Group** Constellation: **Camelopardalis** Coordinates: **07hr 11' 40"** **71° 56' 04"** Close Star: **SAO-40186** (Capella) Catalog Objects: UGC-3697, UGC-3714, UGC-3701 Imaging Window: **01:54 – 05:23** Transit: **04:48 | 52°**	**C-11 HD: Focal Reducer** 
Integral Sign Galaxy (UGC 3697) Config: |C11HD|ZWO6200MC| Type: **Galaxy** Constellation: **Camelopardalis** Coordinates: **07hr 11' 50"** **71° 48' 14"** Close Star: **SAO-40186** (Capella) Catalog Objects: UGC-3697, UGC-3714, UGC-3701 Imaging Window: **01:54 – 05:23** Transit: **04:48 | 52°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – November 01, 2024

Thor's Helmet (NGC-2359) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Canis Major** Coordinates: **07h 18' 26.223"** **-13° 15' 29.563"** Close Star: SAO-151881 (Sirius) Catalog Objects: NGC-2359/ Sh2-298/ LBN1041 Imaging Window: ***02:55 – 05:23** Transit: **04:55 | 43°**	**C-11 HD: Primary Focus** 
Candy Wrapper (NGC-2371) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Gemini** Coordinates: **07° 25' 34"** **29° 29' 18"** Close Star: SAO-151881 (Sirius) Catalog Objects: NGC-2371 Imaging Window: **01:34 – 05:23** Transit: **05:02 | 86°**	**C-11 HD: Primary Focus x2** 
Medusa Nebula (Abell 21) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Gemini** Coordinates: **07h 29' 00"** **13° 15' 00"** Close Star: **SAO-115756** (Procyon) Catalog Objects: Abell 21 Imaging Window: **02:12 – 05:23** Transit: **05:06 | 70°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – November 01, 2024

Eskimo Nebula (NGC-2392)
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

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

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

Imaging Window: **01:54 – 05:23**
Transit: **05:06 | 70°**

C-11 HD: Primary Focus

M-47 (NGC-2422)
Config: |C11HD|ZWO6200MC|

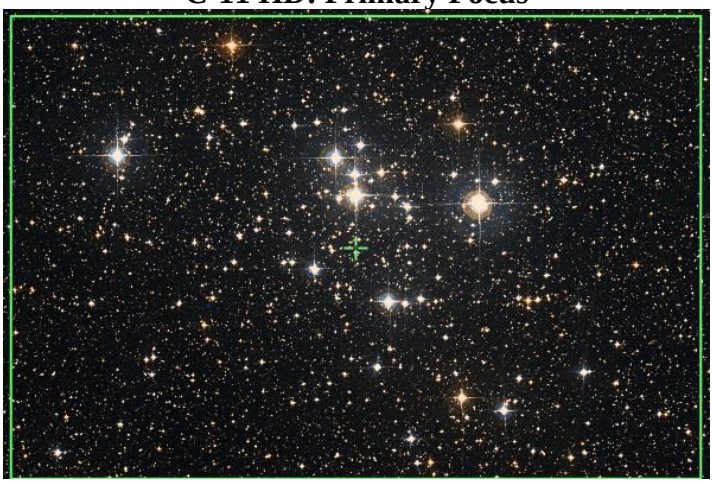
Type: **Open Cluster**

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

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

Imaging Window: ***03:18 – 05:23**
Transit: **05:13 | 42°**

C-11 HD: Primary Focus



NGC-2403
Config: |C11HD|ZWO6200MC|

Type: **Barred Spiral Galaxy**

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

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

Imaging Window: **01:45 – 05:23**
Transit: **05:13 | 58°**

C-11 HD: Primary Focus

Prospective Imaging Objects – November 01, 2024

Intergalactic Wanderer (NGC-2419)
Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

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

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

Imaging Window: **01:35 – 05:23**
Transit: **05:15 | 84°**

C-11 HD: Primary Focus

M-46 (NGC-2437)
Config: |C11HD|ZWO6200MC|

Type: **Open Cluster with PN**

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

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

Imaging Window: ***03:39 – 05:23**
Transit: **05:18 | 42°**

C-11 HD: Primary Focus

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

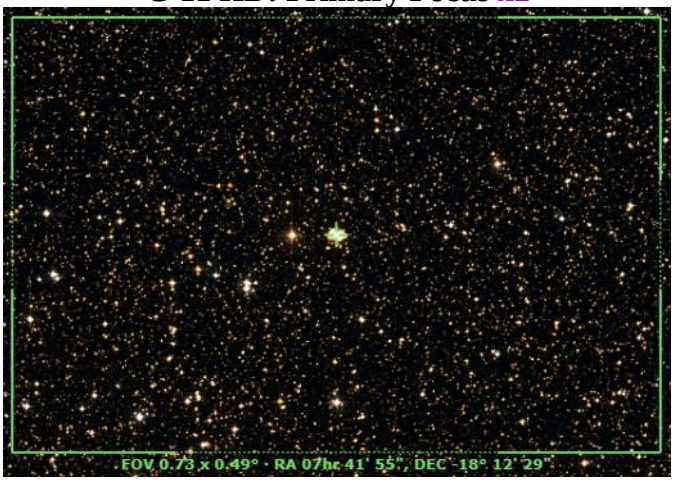
Type: **Planetary Nebula**

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

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

Imaging Window: ***02:36 – 05:23**
Transit: **05:18 | 38°**

C-11 HD: Primary Focus x2



Prospective Imaging Objects – November 01, 2024

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

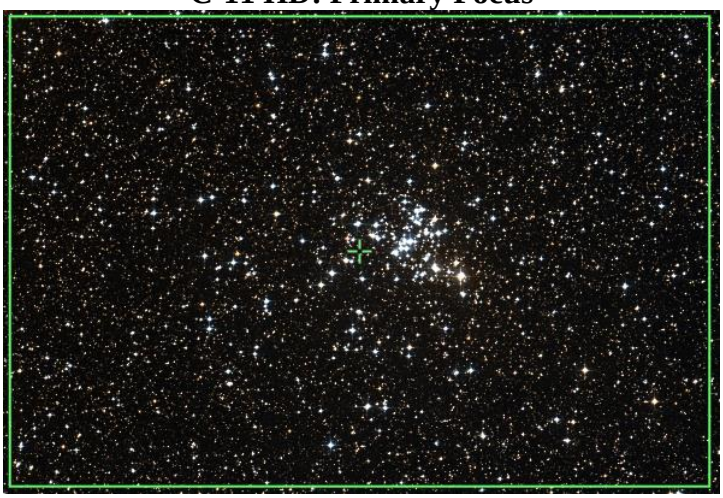
Type: **Open Cluster**

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

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

Imaging Window: ***03:10 – 05:23**
Transit: **05:21 | 33°**

C-11 HD: Primary Focus



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Prospective Imaging Objects – November 01, 2024

Imaging Summary November 01, 2024

Astronomical Dusk = 06:59 Astronomical Dawn = 05:23

HyperStar: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Nebula	Nebula	IC-1396	06:59 – 11:07	07:17	03	Cepheus: Elephant Trunk
HyperStar	Nebula	DN, BN	B-168	06:59 – 11:24	07:31	06	Cygnus: Dark Cocoon
HyperStar	Nebula	Nebula	SH2-132	06:59 – 11:49	07:57	08	Cepheus: SH2-132
HyperStar	Nebula	Nebula	SH2-155	06:59 – 12:18	08:35	11	Cepheus: Cave Nebula
HyperStar	Nebula	Nebula	SH2-157	06:59 – 12:41	08:54	12	Cassiopeia: Lobster Claw and Bubble Nebula
HyperStar	Nebula	Nebula	LBN 534	06:59 – 01:01	09:07	14	Andromeda: Blue Match Nebula
HyperStar	Nebula	Nebula	NGC-7822	06:59 – 01:07	09:39	15	Comp2! Cepheus: NGC-7822 region
HyperStar	Nebula	Nebula	NGC-7822	06:59 – 01:07	09:39	15	Cepheus CED-214
HyperStar	Nebula	Nebula	SH2-185	06:59 – 02:24	10:38	22	Cassiopeia: Gamma Cassiopeiae Nebula
HyperStar	Nebula	Neb, OC	NGC-457	07:13 – 02:47	10:57	24	Cassiopeia: Open Cluster and Nebula
HyperStar	Nebula	Nebula	IC-1848	08:25 – 03:47	12:03	29	Comp4! Cassiopeia: Heart & Soul Nebula
HyperStar	Nebula	Nebula	IC-1805	08:31 – 03:56	12:10	30	Cassiopeia: Heart Nebula
HyperStar	Nebula	Nebula	IC-1848	08:48 – 04:16	12:29	32	Cassiopeia: Soul Nebula
HyperStar	Nebula	Nebula	NGC-1499	10:02 – 05:23	01:40	35	Perseus: California Nebula
HyperStar	Nebula	Nebula	IC-405	11:19 – 05:23	02:54	39	Auriga: Flaming Star Nebula
HyperStar	Nebula	Nebula	Orion Cmpx	12:29 – 05:23	03:12	43	Comp6! Orion: Orion Complex of objects
HyperStar	Nebula	Nebula	M-42	12:29 – 05:23	03:12	44	Orion: Orion and Running Man Nebula
HyperStar	Nebula	Nebula	M-42	12:29 – 05:23	03:12	44	Orion: Orion and Running Man Nebula
HyperStar	Nebula	Nebula	SH 2-240	11:52 – 05:23	03:18	46	Comp2! Taurus: Simeis 147
HyperStar	Nebula	Nebula	SH 2-240	11:52 – 05:23	03:18	46	Taurus: Simeis 147
HyperStar	Nebula	Nebula	NGC-2024, B-33	01:23 – 05:23	03:18	47	Orion: Horsehead and Flame Nebula
HyperStar	Nebula	Nebula	IC-2162, SH2-261	12:46 – 05:23	03:45	53	Orion: Two Nebulas
HyperStar	Nebula	Nebula	IC-443	12:39 – 05:23	03:54	56	Gemini: Jellyfish Nebula
HyperStar	Nebula	Nebula	NGC-2237	01:41 – 05:23	04:07	57	Monoceros: Rosett Nebula

Prospective Imaging Objects – November 01, 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Nebula	Nebula	IC-2169	01:24 – 05:23	04:08	58	Monoceros: DN & Nebulas
HyperStar	Nebula	Nebula	IC-2177	*02:25-05:23	04:41	62	Rot90°Monoceros: Seagull Nebula

Imaging Summary November 01, 2024

Astronomical Dusk = 06:59 Astronomical Dawn = 05:23

HyperStar: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Broad Spectrum	DN	B-168	06:59 – 11:24	07:31	07	Cepheus: Wolf Cave
HyperStar	Broad Spectrum	Galaxies	NGC-147	06:59 – 02:04	10:11	17	Cassiopeia: Galaxy Pair
HyperStar	Broad Spectrum	Galaxy	M-31	06:59 – 02:09	10:20	19	Andromeda: Andromeda Galaxy
HyperStar	Broad Spectrum	Gal, GC	NGC-288	*08:26-12:29	10:25	21	Sculptor: NGC-288 & NGC-253
HyperStar	Broad Spectrum	Galaxy	M-33	07:41 – 02:48	11:11	25	Triangulum: Triangulum Galaxy
HyperStar	Broad Spectrum	OC	NGC-869	08:11 – 03:48	11:56	28	Perseus: Hand chi Persei
HyperStar	Broad Spectrum	OC, BN	M-45	10:04 – 04:49	01:23	34	Taurus: Pleiades
HyperStar	Broad Spectrum	OC	Mel-25	11:03 – 05:17	02:07	37	Taurus: Hyades
HyperStar	Broad Spectrum	DN	IC-2118	*12:11-05:17	02:39	37	Eridanus: Witch Head Nebula
HyperStar	Broad Spectrum	DN	NGC-1788	12:27 – 04:38	02:44	38	Orion: Foxface Nebula
HyperStar	Broad Spectrum	DN, N	LDN-1622 R1	08:18 – 05:23	03:31	50	Comp2! Orion: DN Band
HyperStar	Broad Spectrum	DN, N	LDN-1622 R2	08:18 – 05:23	03:31	51	Orion: DN Band
HyperStar	Broad Spectrum	DN, N	LDN-1622 R3	08:18 – 05:23	03:31	51	Orion: DN Band

Prospective Imaging Objects – November 01, 2024

Imaging Summary November 01, 2024

Astronomical Dusk = 06:59 Astronomical Dawn = 05:23

Focal Reducer: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Nebula	Nebula	IC-1396-1	06:59 – 11:07	07:17	03	Cepheus: Elephant Trunk ROI
Focal Reducer	Nebula	Nebula	IC-1396-2	06:59 – 11:07	07:17	04	Cepheus: Elephant Trunk ROI
Focal Reducer	Nebula	Nebula	IC-5146	06:59 – 11:24	07:32	06	Cygnus: Cocoon Nebula
Focal Reducer	Nebula	Nebula	SH2-132	06:59 – 11:49	07:57	08	Cepheus: Bright Nebula
Focal Reducer	Nebula	Nebula	SH2-142	05:59 – 12:15	08:25	10	Cepheus: Wizard Nebula
Focal Reducer	Nebula	Nebula	SH2-155	06:59 – 12:18	08:35	11	Cepheus: Cave Nebula
Focal Reducer	Nebula	Nebula	SH2-157	06:59 – 12:41	08:54	12	Cassiopeia: Lobster Claw
Focal Reducer	Nebula	Nebula	NGC-7822	06:59 – 01:07	09:39	16	Cepheus: NGC 7822 (CED-214)
Focal Reducer	Nebula	Neb, Gx	NGC-246	*07:12-01:40	10:25	20	Cetus: Planetary and two Galaxies
Focal Reducer	Nebula	Nebula	NGC-281	06:59-02:21	10:30	22	Cassiopeia: Pack Man Nebula
Focal Reducer	Nebula	Nebula	IC-1795	08:25 – 03:47	12:03	29	Cassiopeia: Fish Head Nebula
Focal Reducer	Nebula	Nebula	IC-1805	08:31 – 03:56	12:10	30	Cassiopeia: Heart Nebula
Focal Reducer	Nebula	Nebula	IC-405	11:19 – 05:23	02:54	39	Auriga: Flaming Star Nebula
Focal Reducer	Nebula	Nebula	IC-410	11:25 – 05:23	02:59	40	Auriga: Tadpoles
Focal Reducer	Nebula	Nebula	M-77, NGC1055	11:30 – 05:23	03:05	41	Comp2! Auriga: The Spider and the Fly
Focal Reducer	Nebula	Nebula	NGC-2024	01:23 – 05:23	03:18	47	Orion: Flame Nebula
Focal Reducer	Nebula	Nebula	NGC-2170	02:19 – 05:23	03:44	53	Monoceros: Angel Nebula
Focal Reducer	Nebula	Nebula	SH 2-261	12:46 – 05:53	03:45	54	Orion: Lower's Nebula
Focal Reducer	Nebula	Nebula	NGC-2174	12:35 – 05:23	03:46	55	Orion: Monkey Head Nebula
Focal Reducer	Nebula	Nebula	IC-443	12:39 – 05:23	03:54	56	Gemini: Jellyfish Nebula
Focal Reducer	Nebula	Nebula	NGC-2237	01:41 – 05:23	04:07	58	Monoceros: Rosett Nebula Core
Focal Reducer	Nebula	Nebula	NGC-2264	01:34 – 05:23	04:17	60	Comp2! Monoceros: Xmas Tree and Cone Nebula
Focal Reducer	Nebula	Nebula	NGC-2264	01:34 – 05:23	04:17	60	Rot! Monoceros: Xmas Tree and Cone Nebula
Focal Reducer	Nebula	Nebula	NGC-2264	01:34 – 05:23	04:17	60	Monoceros: Xmas Tree and Cone Nebula

Prospective Imaging Objects – November 01, 2024

Imaging Summary November 01, 2024

Astronomical Dusk = 06:59 Astronomical Dawn = 05:23

Focal Reducer: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Broad Spectrum	OC	M-39	06:59 – 11:02	07:10	02	Cygnus: Open Cluster NGC-7092
Focal Reducer	Broad Spectrum	DN	LDN-1235	06:59 – 10:38	07:53	07	Cepheus: Dark Shark
Focal Reducer	Broad Spectrum	DN	B-168	06:59 – 11:24	07:31	07	Rot90 Cepheus: Wolf's Cave
Focal Reducer	Broad Spectrum	Galaxies	NGC7317	06:59 – 11:55	08:14	09	Rot 115 Pegasus: Stephan's Quintent & NGC-7331
Focal Reducer	Borad Spectrum	Galaxies	NGC-7619	06:59 – 11:42	08:58	13	Pegasus: Pegasus Cluster
Focal Reducer	Broad Spectrum	Galaxies	NGC-147	06:59 – 02:02	10:11	17	Copmp2! Cassiopeia: Galaxy Pair NGC-147 & 185
Focal Reducer	Broad Spectrum	OC	NGC-188	*06:59-03:14	10:25	22	Cepheus: Open Cluster NGC-188
Focal Reducer	Broad Spectrum	Galaxy	M-33	07:41 – 02:48	11:11	26	Rot90 Triangulum: Triangulum Galaxy
Focal Reducer	Broad Spectrum	Galaxies	M-77	10:15 – 02:32	12:20	31	Cetus: Galaxies M-77 & NGC-1055
Focal Reducer	Broad Spectrum	DN, BN	NGC-1788	12:57 – 04:38	02:44	38	Orion: Foxface Nebula
Focal Reducer	Broad Spectrum	DN, BN	M-78	01:18 – 05:23	03:23	49	Comp2! Orion: Dark Nebula
Focal Reducer	Broad Spectrum	DN, BN	M-78	01:18 – 05:23	03:23	49	Orion: Dark Nebula
Focal Reducer	Broad Spectrum	DN	LDN-1622	01:18 – 05:23	03:31	52	Comp2! Rot90°Orion: Dark Nebula
Focal Reducer	Broad Spectrum	DN	LDN-1622	01:18 – 05:23	03:31	52	Orion: Dark Nebula
Focal Reducer	Broad Spectrum	OC	M-35, NGC-2158	12:27 – 05:23	03:46	54	Gemini: Open Cluster Pair
Focal Reducer	Borad Spectrum	BN	IC-2169	01:24 – 05:23	04:08	59	Monoceros: Reflection Nebula
Focal Reducer	Broad Spectrum	Galaxies	UGC-3697	01:54 – 05:23	04:48	63	Camelopardalis: Integral Sign Galaxy

Prospective Imaging Objects – November 01, 2024

Imaging Summary November 01, 2024

Astronomical Dusk = 06:59 Astronomical Dawn = 05:23

Primary Focus: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	PN	NGC-7094	06:59 – 10:13	07:15	03	Pegasus: Med PN
Primary Focus	Nebula	DN	IC-1396-1	06:59 – 11:07	07:17	04	Cepheus: Elephant Trunk ROI
Primary Focus	Nebula	BN	IC-1396-2	06:59 – 11:07	07:17	04	Cepheus: Elephant Trunk RIO
Primary Focus	Nebula	BN	IC-1396-3	06:59 – 11:07	07:17	05	Cepheus: Elephant Trunk RIO
Primary Focus	Nebula	PN	NGC-7139	06:59 – 11:04	07:24	05	Cepheus: Med/Lrg Planetary
Primary Focus	Nebula	BN	IC-5146	06:59 – 11:24	07:32	06	Cygnus: Cocoon Nebula
Primary Focus	Nebula	Nebula	SH2-132	06:59 – 11:49	07:57	08	Cepheus: Bright Nebula
Primary Focus	Nebula	PN	NGC-7293	*06:59-10:37	08:08	09	Aquarius: Helix Nebula
Primary Focus	Nebula	Nebula	SH2-142	05:59 – 12:15	08:25	10	Cepheus: Wizard Nebula
Primary Focus	Nebula	Nebula	SH2-155	06:59 – 12:18	08:35	11	Cepheus: Cave Nebula
Primary Focus	Nebula	Nebula	NGC-7635	06:59 – 12:44	08:59	13	Cepheus: Bubble Nebula
Primary Focus	Nebula	Nebula	NGC-7662	06:59 – 12:54	09:04	14	Andromeda: Blue Snowball
Primary Focus	Nebula	Nebula	NGC-7822	06:59 – 01:07	09:39	16	Cepheus: Emission Nebula Ced 214
Primary Focus	Nebula	PN	NGC-40	06:59 – 12:46	09:51	16	Cepheus: Bow-Tie Nebula
Primary Focus	Nebula	PN	NGC-246	*07:12-01:40	10:25	20	Cetus: Skull Nebula
Primary Focus	Nebula	Nebula	SH2-185	06:59 – 02:24	10:38	23	Cassiopeia: Gamma Cassiopeiae Nebula
Primary Focus	Nebula	Nebula	SH2-188	07:24 – 02:58	11:08	25	Cassiopeia: Firefox Nebula
Primary Focus	Nebula	PN	M-76	07:32 – 03:13	11:20	27	Perseus: Little Dumbbell Nebula
Primary Focus	Nebula	Nebula	IC-1805	08:31 – 03:56	12:10	30	Cassiopeia: Heart Nebula Core
Primary Focus	Nebula	Nebula	IC-1848	08:48 – 04:16	12:29	32	Cassiopeia: Soul Nebula Core
Primary Focus	Nebula	Nebula	NGC-1333	09:35 – 04:44	01:06	33	Perseus: Bright Nebula
Primary Focus	Nebula	Nebula	NGC-1360	*11:22-03:06	01:10	33	Fornax: Egg shaped Nebula
Primary Focus	Nebula	Nebula	IC-348	09:49 – 05:01	01:22	34	Perseus: Bright Nebula
Primary Focus	Nebula	Nebula	M-45	10:04 – 04:49	01:23	35	Taurus: Pleiades

Prospective Imaging Objects – November 01, 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	Nebula	NGC-1501	10:04 – 05:23	01:44	35	Camelopardalis: Oyster Nebula
Primary Focus	Nebula	Nebula	NGC-1514	10:16 – 05:23	01:46	36	Taurus: Crystal Ball Nebula
Primary Focus	Nebula	Nebula	NGC-1535	*11:45-03:59	01:51	36	Eridanus: Cleopatra's Eye
Primary Focus	Nebula	Nebula	NGC-1555	10:50 – 05:15	01:59	36	Taurus: Hind's Variable Nebula
Primary Focus	Nebula	Nebula	NGC-1579	10:30 – 05:23	02:07	37	Perseus: Trifid of the North
Primary Focus	Nebula	Nebula	IC-2118	*12:11-05:17	02:39	38	Eridanus: Witch Head Nebula
Primary Focus	Nebula	Nebula	NGC-1788	12:57 – 04:38	02:44	39	Orion: Foxface Nebula
Primary Focus	Nebula	Nebula	IC-405	11:19 – 05:23	02:54	40	Auriga: Flaming Star Nebula
Primary Focus	Nebula	Nebula	IC-410	11:25 – 05:23	02:59	40	Auriga: Tadpoles
Primary Focus	Nebula	Nebula	IC-418	*12:59-05:10	03:04	41	Lepus: Spirograph Nebula
Primary Focus	Nebula	Nebula	IC-417	11:30 – 05:23	03:05	42	Auriga: The Spider
Primary Focus	Nebula	Nebula	NGC-1931	11:30 – 05:23	03:08	42	Auriga: The Fly
Primary Focus	Nebula	Nebula	M-1	11:57 – 05:23	03:11	43	Taurus: Crab Nebula
Primary Focus	Nebula	Nebula	M-42	12:29 – 05:23	03:12	44	Orion: The Orion Nebula
Primary Focus	Nebula	Nebula	NGC-1977	01:35 – 05:23	03:12	45	Orion: Running Man Nebula (C-6)
Primary Focus	Nebula	Nebula	NGC-1977	01:35 – 05:23	03:12	45	Orion: Running Man Nebula
Primary Focus	Nebula	Nebula	NGC-2024	01:23 – 05:23	03:18	47	Orion: Flame Nebula
Primary Focus	Nebula	Nebula	B-33	01:26 – 05:23	03:18	48	Orion: Horsehead Nebula
Primary Focus	Nebula	Nebula	NGC-2022	12:38 – 05:23	03:19	48	Orion: Planetary Nebula
Primary Focus	Nebula	Nebula	NGC-2170	02:19 – 05:23	03:44	53	Monoceros: Angle Nebula
Primary Focus	Nebula	Nebula	SH 2-261	12:46 – 05:53	03:45	54	Orion: Lower's Nebula
Primary Focus	Nebula	Nebula	NGC-2174	12:35 – 05:23	03:46	55	Orion: Monkey Head Nebula
Primary Focus	Nebula	Nebula	IC-2162	12:44 – 05:23	03:50	55	Orion: Nebula
Primary Focus	Nebula	Nebula	IC-443	12:39 – 05:23	03:54	56	Gemini: Jellyfish Nebula
Primary Focus	Nebula	Nebula	IC-2165	*01:55-05:23	03:58	57	Canis Major: Small Planetary Nebula
Primary Focus	Nebula	Nebula	SH 2-249	12:43 – 05:23	03:59	57	Gemini: Nebula
Primary Focus	Nebula	Nebula	NGC-2237	01:41 – 05:23	04:07	58	Monoceros: Rosette Nebula Core
Primary Focus	Nebula	Nebula	NGC-2261	01:36 – 05:23	04:18	59	Monoceros: Hubble's Variable Nebula
Primary Focus	Nebula	Nebula	NGC-2264	01:34 – 05:23	04:17	60	Monoceros: Xmas Tree Cluster

Prospective Imaging Objects – November 01, 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	Nebula	NGC-2264	01:34 – 05:23	04:17	61	Monoceros: Cone Nebula
Primary Focus	Nebula	Nebula	IC-2177	*02:25-05:23	04:41	62	Monoceros: Seagull Nebula head
Primary Focus	Nebula	Nebula	NGC-2346	*01:44-05:23	04:46	63	Monoceros: Hourglass Nebula
Primary Focus	Nebula	Nebula	NGC-2359	*02:55-05:23	04:55	64	Canis Major: Thor's Helmet
Primary Focus	Nebula	Nebula	NGC-2371	01:34 – 05:23	05:02	64	Gemini: Candy Wrapper Nebula
Primary Focus	Nebula	Nebula	Abell-21	02:12 – 05:23	05:06	64	Gemini: Medusa Nebula
Primary Focus	Nebula	Nebula	NGC-2392	01:54 – 05:23	05:06	65	Gemini: Eskimo Nebula
Primary Focus	Nebula	Nebula	M-46	*03:39-05:23	05:18	66	Puppis: Open Cluster and Planetary
Primary Focus	Nebula	Nebula	NGC-2440	*02:36-05:23	05:18	66	Puppis: Bow-Tie Nebula
Primary Focus	Nebula	Nebula					

Imaging Summary November 01, 2024

Astronomical Dusk = 06:59 Astronomical Dawn = 05:23

Primary Focus: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	GC	M-15	06:59 – 10:04	07:08	02	Pegasus: Pegasus Cluster
Primary Focus	Broad Spectrum	GC	M-2	06:59 – 09:18	07:12	02	Aquarius: Large Globular
Primary Focus	Broad Spectrum	GC	M-30	*06:59-09:37	07:18	05	Capricornus: Med Globular
Primary Focus	Broad Spectrum	Galaxies	NGC-7317	06:59 – 11:55	08:14	09	Pegasus: Stephan's Quintet
Primary Focus	Broad Spectrum	Galaxies	NGC-7331	06:59 – 11:56	08:15	10	Pegasus: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	NGC-7479	06:59 – 11:40	08:43	12	Pegasus: Face on Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-7619	06:59 – 11:42	08:58	13	Pegasus: Pegasus Cluster
Primary Focus	Broad Spectrum	OC	M-52	06:59 – 12:47	09:03	14	Cassiopeia: Open Cluster NGC-7654
Primary Focus	Broad Spectrum	OC	NGC-7789	06:59 – 01:26	09:35	15	Cassiopeia: Caroline's Rose
Primary Focus	Broad Spectrum	Galaxies	NGC 67-72	06:59 – 01:31	09:56	17	Andromeda: Andromeda Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	NGC-147	06:59 – 02:02	10:11	18	Cassiopeia: Dwarf Galaxy

Prospective Imaging Objects – November 01, 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	NGC-185	06:59 – 02:10	10:17	18	Cassiopeia: Dwarf Spheroidal Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-110	06:59 – 02:07	10:18	18	Andromeda: Elliptical Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-32	06:59 – 02:09	10:20	19	Andromeda: Companion to M-31
Primary Focus	Broad Spectrum	Galaxy	NGC-247	*07:57-12:59	10:25	20	Cetus: Needle's Eye Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-253	*08:26-12:29	10:25	21	Sculptor: Sculptor Galaxy
Primary Focus	Broad Spectrum	Globular	NGC-288	*08:49-12:22	10:30	21	Sculptor: Med Globular Cluster
Primary Focus	Broad Spectrum	Galaxy	IC-1613	08:27 – 01:04	10:42	23	Cetus: Irregular Dwarf Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-404	07:09 – 02:30	10:47	23	Andromeda: Mirachs Ghost
Primary Focus	Broad Spectrum	OC	NGC-457	07:13 – 02:47	10:57	24	Cassiopeia: Owl Cluster
Primary Focus	Broad Spectrum	Galaxies	Arp-133	09:05 – 01:08	11:03	24	Cetus: Minkowski's Object
Primary Focus	Broad Spectrum	OC	M-103	07:30 – 02:58	11:11	25	Cassiopeia: Open Cluster NGC-581
Primary Focus	Broad Spectrum	Galaxy	M-33	07:41 – 02:48	11:11	26	Triangulum: Triangulum Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-74	08:13 – 02:21	11:14	27	Pisces: Med Face On Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-772	08:28 – 02:51	11:37	27	Aries: Nautilus Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-891	08:12 – 03:50	12:00	28	Andromeda: Edge On Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-925	08:30 – 03:46	12:05	28	Triangulum: Face on Galaxy PGC-9332
Primary Focus	Broad Spectrum	Galaxy	NGC-1055	10:12 – 02:33	12:19	31	Cetus: Edge On galaxy
Primary Focus	Broad Spectrum	OC	M-34	08:35 – 04:10	12:19	31	Perseus: Open Cluster NGC-1039
Primary Focus	Broad Spectrum	Galaxy	M-77	10:15 – 02:32	12:20	32	Cetus: Galaxy NGC-1068
Primary Focus	Broad Spectrum	Galaxies	Abell-426	09:14 – 04:47	12:57	33	Perseus: Perseus Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxy	IC-342	10:05 – 04:50	01:24	34	Camelopardalis: Large Face-On
Primary Focus	Broad Spectrum	Globular	M-79	*01:03-05:10	03:01	41	Lepus: Med Globular
Primary Focus	Broad Spectrum	OC	M-38	11:28 – 05:23	03:05	42	Auriga: Starfish Cluster
Primary Focus	Broad Spectrum	OC	M-36	11:08 – 05:23	03:13	45	Auriga: Open Star Cluster NGC-1960
Primary Focus	Broad Spectrum	Galaxy	NGC-1961	12:07 – 05:23	03:19	48	Camelopardalis: Galaxies
Primary Focus	Broad Spectrum	DN	M-78	01:18 – 05:23	03:23	50	Orion: Dark and Bright Nebula
Primary Focus	Broad Spectrum	OC	M-37	11:56 – 05:23	03:29	50	Auriga: Salt and Pepper Cluster
Primary Focus	Broad Spectrum	DN	LDN-1622	01:18 – 03:31	03:31	52	Orion: Dark Nebula

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Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	RN	IC-2169	01:24 – 05:23	04:08	59	Monoceros: Reflection Nebula
Primary Focus	Broad Spectrum	OC	M-41	*01:52-05:23	04:23	61	Canis Major: Open Star Cluster NGC-2287
Primary Focus	Broad Spectrum	OC	M-50	*02:10–05:23	04:39	62	Monoceros: Open Star Cluster NGC-2323
Primary Focus	Broad Spectrum	Galaxy	UGC-3697	01:54 – 05:23	04:48	63	Camelopardalis: Galaxy Cluster
Primary Focus	Broad Spectrum	OC	M-47	*03:18-05:23	05:13	65	Puppis: Open Cluster NGC-2422
Primary Focus	Broad Spectrum	Galaxy	NGC-2403	01:45 – 05:23	05:13	65	Camelopardalis: Med Barred Spiral Galaxy
Primary Focus	Broad Spectrum	GC	NGC-2419	01:35 – 05:23	05:15	66	Lynx: Intergalactic Wanderer
Primary Focus	Broad Spectrum	OC	M-93	*03:10-05:23	05:21	67	Puppis: Butterfly Cluster

Prospective Imaging Objects – November 01, 2024

Imaging Summary November 01, 2024

Astronomical Dusk = 06:59 Astronomical Dawn = 05:23

Primary Prospects

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	HyperStar	Nebula	BN & DN	B-168	06:59 – 11:24	07:31	06	Cygnus: Dark Cocoon
	HyperStar	Nebula	Nebula	SH2-132	06:59 – 11:49	07:57	08	Cepheus: Bright Nebula
	HyperStar	Nebula	Nebula	SH2-155	06:59 – 12:18	08:35	11	Andromeda: Blue Match Nebula
	HyperStar	Broadband	Galaxies	NGC-147 & NGC-185	06:59 – 02:02	10:11	17	Cassiopeia: Galaxy Pair
	HyperStar	Broadband	Galaxy	M-33	07:41 – 02:48	11:11	25	Triangulum: Triangulum Galaxy
	HyperStar	Broadband	OC	NGC-869, 884	08:11 – 03:48	11:56	28	Perseus: Hand Chi Persei
	HyperStar	Nebula	Nebula	IC-1848	08:48 – 04:16	12:29	29	Comp4! Cassiopeia: Heart and Soul Nebula
	HyperStar	Broadband	OC	Mel-25	11:03 – 05:17	02:07	37	Taurus: Hayades Cluster
	HyperStar	Nebula	BN, DN	NGC-1788	12:57 – 04:38	02:44	38	Orion: Foxface Nebula
	HyperStar	Nebula	Nebula	Orion Complex	12:29 – 05:23	03:12	43	Comp6! Orion: Orion Complex
	HyperStar	Nebula	Nebula	M-42	12:29 – 05:23	03:12	44	Orion: Orion & Running Man
	HyperStar	Nebula	Nebula	SH 2-240	11:52 – 05:23	03:18	46	Comp2 Rot90 Taurus: Nebula
	HyperStar	Nebula	Nebula	LDN-1622	01:18 – 05:23	03:31	50	Comp2! Orion: Nebula
	HyperStar	Nebula	Nebula	LDN-1622 R1	01:18 – 05:23	03:31	51	Orion: Region of Interest
	HyperStar	Nebula	Nebula	LDN-1622 R3	01:18 – 05:23	03:31	51	Orion: Region of Interest
	HyperStar	Nebula	Nebula	IC-2162	12:46 – 05:23	03:45	53	Rot! Orion: Nebula
	HyperStar	Nebula	Nebula	IC-2169	01:24 – 05:23	04:08	58	Monoceros: BN, DN
	HyperStar	Nebula						
	Focal Reducer	Broadband	OC	M-39	06:59 – 11:02	07:10	02	Cygnus: Open Cluster NGC-7092
	Focal Reducer	Nebula	Nebula	IC-1396	06:59 – 11:07	07:17	03	Cepheus: Elephant Trunk RIO1
	Focal Reducer	Nebula	Nebula	IC-1396	06:59 – 11:07	07:17	04	Cepheus: Elephant Trunk RIO2
	Focal Reducer	Nebula	BN & DN	IC-5146	06:59 – 11:24	07:31	06	Cygnus: Cocoon Nebula
	Focal Reducer	Nebula	Nebula	SH2-132	06:59 – 11:49	07:57	08	Cepheus: Bright Nebula

Prospective Imaging Objects – November 01, 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Focal Reducer	Broadband	Galaxies	NGC7331 et. El.	06:59 – 11:55	08:14	09	Rot! Peg: Stephan's Quintet & NGC7331
	Focal Reducer	Nebula	Nebula	SH2-142	06:59 – 12:15	08:25	10	Cepheus: Wizard Nebula
	Focal Reducer	Broadband	Galaxies	NGC-7619	06:59 – 11:42	08:58	13	Pegasus: Pegasus Cluster
	Focal Reducer	Nebula	Nebula	NGC-7822	06:59 – 01:07	09:39	16	Cepheus: CED-214
	Focal Reducer	Broadband	OC	NGC-188	*06:59-03:18	10:25	22	Cepheus: Open Cluster
	Focal Reducer	Nebula	BN, DN	NGC-1788	12:57 – 04:38	02:44	38	Orion: Foxface Nebula
	Focal Reducer	Nebula	Nebula	NGC-2024	01:23 – 05:23	03:18	47	Orion: Flame Nebula
	Focal Reducer	Broadband	BN, DN	M-78	01:18 – 05:23	03:23	49	Comp2! Orion: Dark& Bright Nebula
	Focal Reducer	Broadband	BN, DN	M-78	01:18 – 05:23	03:23	49	Orion: Dark & Bright Nebula
	Focal Reducer	Broadband	DN	LDN-1622	01:18 -05:23	03:31	52	Comp2! Orion: Dark & Bright Nebula
	Focal Reducer	Broadband	DN	LDN-1622	01:18 -05:23	03:31	52	Orion: Dark & Bright Nebula
	Focal Reducer	Nebula	Nebula	SH 2-261	12:46 – 05:53	03:45	54	Orion: Lower's Nebula
	Focal Reducer	Broadband	OC	M-35	12:27 – 05:23	03:46	54	Gemini: Open Cluster Pair
	Focal Reducer	Nebula	Nebula	NGC-2174	12:35 – 05:23	03:46	55	Orion: Monkey Head
	Focal Reducer	Nebula	Nebula	IC-443	12:39 – 05:23	03:54	56	Gemini: Jellyfish Nebula
	Focal Reducer	Nebula	Nebula	NGC-2237	01:41 – 05:23	04:07	58	Monoceros: Rosette ROI
	Focal Reducer	Nebula	Nebula	IC-2169	01:24 – 05:23	04:08	59	Monoceros: Brigh Nebula
	Focal Reducer	Nebula	Nebula	NGC-2265	01:34 – 05:23	04:17	60	Comp2! Monoceros: Xmas Tree & Cone
	Focal Reducer	Nebula	Nebula	NGC-2265	01:34 – 05:23	04:17	60	Rot! Monoceros: Xmas Tree & Cone
	Primary Focus	Broadband	Globular	M-2	06:59 – 09:18	07:12	02	Aquarius: Large GC NGC-7089
	Primary Focus	Nebula	PN	NGC-7094	06:59 – 10:13	07:15	03	Pegasus: sm/med PN
	Primary Focus	Nebula	DN	IC-1396	06:59 – 11:07	07:17	04	Cepheus: Dark Nebula
	Primary Focus	Nebula	Nebula	IC-1396	06:59 – 11:07	07:17	04	Cepheus: Elephant Trunk RIO 1
	Primary Focus	Nebula	Nebula	IC-1396	06:59 – 11:07	07:17	05	Cepheus: Elephant Trunk RIO 2
	Primary Focus	Broadband	Globular	M-30	*06:59-09:37	07:18	05	Capricornus: Med Globular NGC-7099
	Primary Focus	Nebula	Nebula	SH2-132	06:59 – 11:49	07:57	08	Cepheus: Bright Nebula
	Primary Focus	Broadband	Galaxies	NGC-7317	06:59 – 11:55	08:14	09	Pegasus: Stephan's Quintet
	Primary Focus	Broadband	Galaxies	NGC-7619	06:59 – 11:42	08:58	13	Pegasus: Pegasus Cluster

Prospective Imaging Objects – November 01, 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Primary Focus	Nebula	PN	NGC-7662	06:59 – 12:54	09:04	14	Andromeda: Blue Snowball
	Primary Focus	Broadband	OC	NGC-7789	06:59 – 01:26	09:35	15	Cassiopeia: Caroline's Rose
	Primary Focus	Nebula	PN	NGC-40	06:59 – 12:46	09:51	16	Cepheus: Bow-Tie Nebula
	Primary Focus	Broadband	Galaxies	NGC 67-72	06:59 – 01:31	09:56	17	Andromeda: Andromeda Galaxy Group
	Primary Focus	Nebula	PN	NGC-246	*07:12-01:40	10:25	20	Cetus: Skull Nebula
	Primary Focus	Broadband	Globular	NGC-288	*08:49-12:22	10:30	21	Sculptor: Med Globular Cluster
	Primary Focus	Nebula	Nebula	SH2-185	06:59 – 02:24	10:38	23	Cassiopeia: Gamma Cassiopeiae Nebula
	Primary Focus	Broadband	Galaxy	IC-1613	08:27 – 01:04	10:42	23	Cetus: Irregular Dwarf Galaxy
	Primary Focus	Broadband	Galaxy	NGC-404	07:09 – 02:30	10:47	23	Andromeda: Mirachs Ghost
	Primary Focus	Broadband	Galaxies	Arp-133	09:05 – 01:08	11:03	24	Cetus: Minkowski's Object
	Primary Focus	Nebula	Nebula	SH2-188	07:24 – 02:58	11:08	25	Cassiopeia: Firefox Nebula
	Primary Focus	Broadband	OC	M-103	07:30 -02:58	11:11	25	Cassiopeia: Open Cluster
	Primary Focus	Broadband	Galaxy	NGC-772	08:28 – 02:51	11:37	27	Aries: Nautilus Galaxy
	Primary Focus	Broadband	Galaxy	NGC-1055	10:12 – 02:33	12:19	31	Cetus: Edge On Galaxy
	Primary Focus	Broadband	OC	M-34	08:35 – 04:10	12:19	31	Perseus: Open Cluster NGC-1039
	Primary Focus	Broadband	Galaxy	M-77	10:15 – 02:32	12:20	32	Cetus: Galaxy
	Primary Focus	Broadband	Galaxies	Abell-426	09:14 – 04:47	12:57	33	Perseus: Perseus Galaxy Cluster
	Primary Focus	Nebula	BN	NGC-1333	09:35 – 04:44	01:06	33	Perseus: Bright Nebula
	Primary Focus	Nebula	PN	NGC-1360	*11:22-03:06	01:10	33	Fornax: Blue Egg Nebula
	Primary Focus	Nebula	BN	IC-348	09:49 – 05:01	01:22	34	Perseus: Bright Nebula in Starfield
	Primary Focus	Broadband	Galaxy	IC-342	10:05 – 04:50	01:24	34	Camelopardalis: Large Face-On Galaxy
	Primary Focus	Nebula	PN	NGC-1555	10:50 – 05:15	01:59	36	Taurus: Hind's Variable Nebula
	Primary Focus	Nebula	BN	NGC-1579	10:30 – 05:23	02:07	37	Perseus: Trifid of the North
	Primary Focus	Broadband	DN	IC-2118	*12:11-05:17	02:39	38	Eridanus: Witch Head Nebula
	Primary Focus	Broadband	GC	M-79	*01:03-05:10	03:01	41	Lepus: Med Globular
	Primary Focus	Nebula	PN	IC-418	*12:59-05:10	03:04	41	Lepus: Spirograph Nebula
	Primary Focus	Nebula	Nebula	IC-417	11:30 – 05:23	03:05	42	Auriga: The Spider
	Primary Focus	Nebula	Nebula	NGC-1931	11:33 – 05:23	03:08	42	Auriga: The Fly

Prospective Imaging Objects – November 01, 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Primary Focus	Nebula	Nebula	NGC-1977	01:35 – 05:23	03:12	45	Orion: Running Man Nebula
	Primary Focus	Broadband	BN, DN	M-78	01:18 – 05:23	03:23	50	Orion: Dark& Bright Nebula
	Primary Focus	Broadband	OC	M-37	11:56 – 05:23	03:29	50	Auriga: Salt and Pepper Cluster
	Primary Focus	Broadband	DN	LDN-1622	01:18 -05:23	03:31	52	Orion: Dark & Bright Nebula
	Primary Focus	Nebula	PN	IC-2165	*01:55-05:23	03:58	57	Canis Major: Small PN
	Primary Focus	Nebula	Nebula	NGC-2237	01:41 – 05:23	04:07	58	Monoceros: Rosette ROI
	Primary Focus	Broadband	RN	NGC-2261	01:36 – 05:23	04:16	59	Monoceros: Hubble's Variable Nebula
	Primary Focus	Nebula	Nebula	NGC-2265	01:34 – 05:23	04:17	60	Monoceros: Cone Nebula
	Primary Focus	Broadband	OC	M-41	*01:52-05:23	04:23	61	Canis Major: Open Cluster NGC-2287
	Primary Focus	Nebula	Nebula	IC-2177	*02:25-05:23	04:41	62	Monoceros: Seagull Nebula Head
	Primary Focus	Broadband	Galaxy	UGC-3697	01:54 – 05:23	04:48	63	Camelopardalis: Integral Sign Galaxy
	Primary Focus	Broadband	OC	M-47	*03:18 – 05:23	05:13	56	Puppis: Open Cluster NGC-2422
	Primary Focus	Nebula	PN	NGC-2440	*02:36-05:23	05:18	66	Puppis: Bow-Tie Nebula
	Primary Focus	Broadband	OC	M-93	*03:10-05:23	05:21	67	Puppis: Butterfly Cluster

Prospective Imaging Objects – November 01, 2024

Imaging Summary November 01, 2024

Astronomical Dusk = 06:59 Astronomical Dawn = 05:23

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					