Prospective Imaging Objects – October 02, 2024

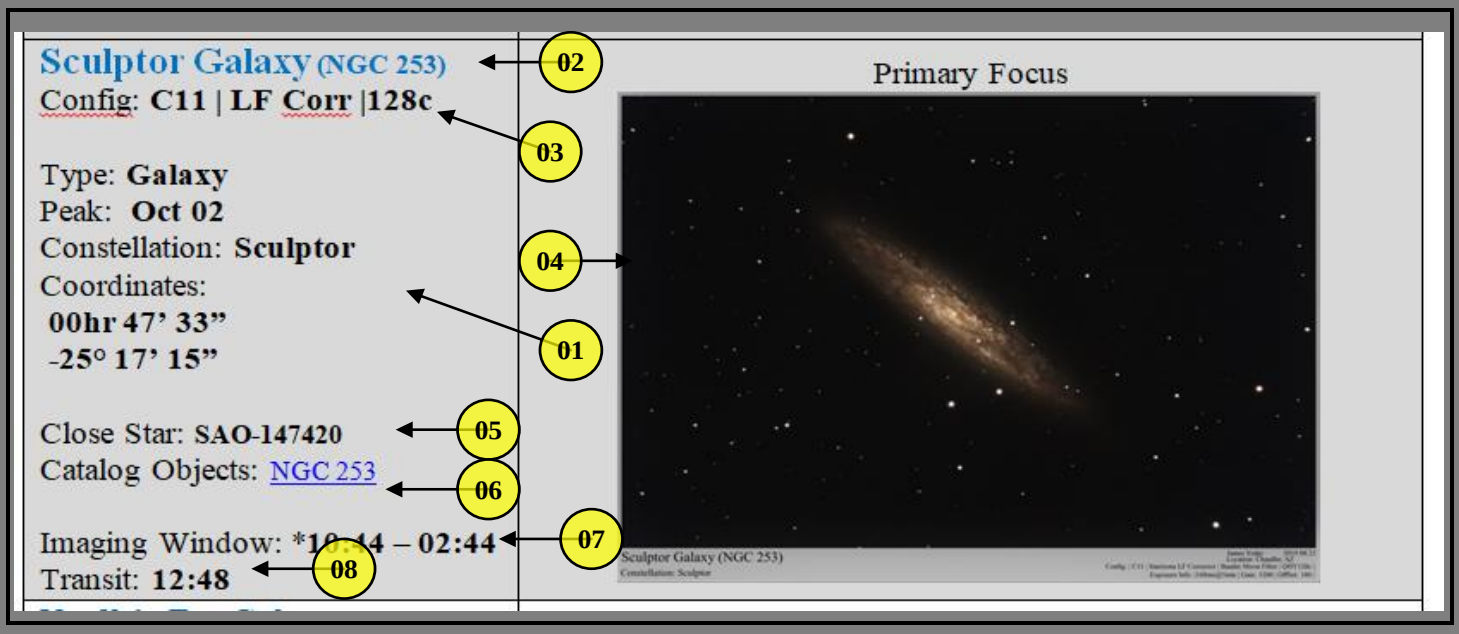
Astronomical Data

Sunrise	Sunset	Astronomical Dusk	Astronomical Dawn	Imaging	New Moon
06:23am	06:09 pm	07:32 pm	05:00 am	09:28	October 02

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.

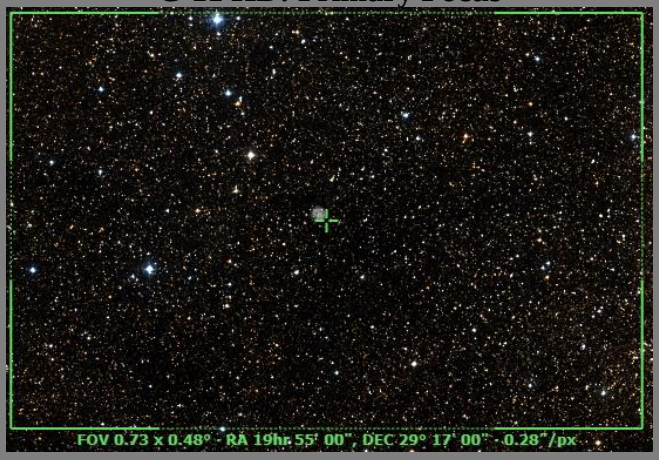
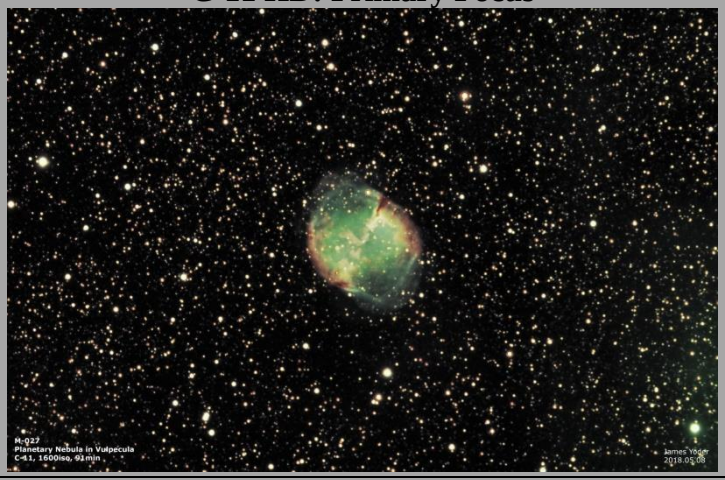
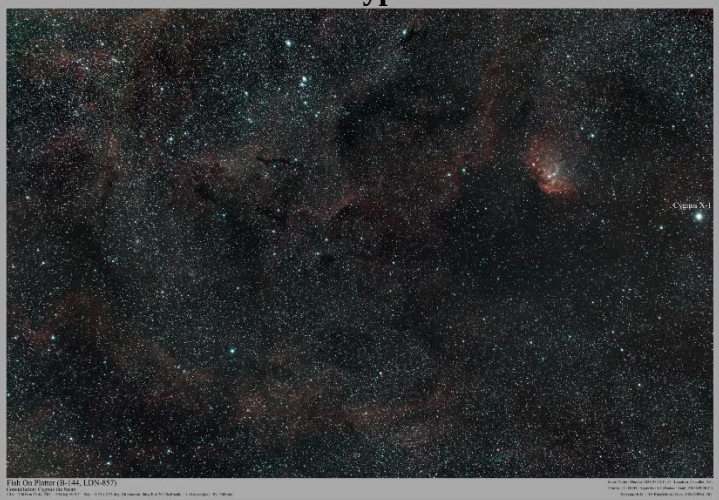
05: Close Star – A fairly bright star close to the target that can be used to check focus and sync the telescope before the imaging session begins.

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 – October 02, 2024

NGC 6842 (PK 65+0.1) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Vulpecula** Coordinates: **19h 55’ 00”** **29° 17’ 00”** Close Star: **SAO-68637** (12 Cyg) Catalog Objects: NGC-6842/PK 65+0.1 Imaging Window: **07:32 – 11:05** Transit: **07:31 | 86°**	**C-11 HD: Primary Focus** 
Dumbbell Nebula (M-27, NGC-6853) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Vulpecula** Coordinates: **19h 59’ 36”** **22° 43’ 17”** Close Star: **SAO-125122** (Altair) Catalog Objects: M-27/NGC-6853 Imaging Window: **07:32 – 10:58** Transit: **07:36 | 79°**	**C-11 HD: Primary Focus** 
Fish on the Platter (B-144) Config: **C11-HD | HS | ZWO6200MC** Type: **Dark Nebula** Constellation: **Cygnus** Coordinates: **20h 02’ 28”** **34° 57’ 42”** Close Star: **SAO-125122** (Altair) Catalog Objects: B-144, SH2-101 Imaging Window: **07:32 – 11:17** Transit: **07:34 | 89°**	**C-11 HD: HyperStar v4** 

Prospective Imaging Objects – October 02, 2024

Tulip Nebula (SH2-101) Config: |C11-HD|FR|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Cygnus** Coordinates: **20h 00' 58"** **35° 16' 30"** Close Star: **SAO-125122** (Altair) Catalog Objects: SH2-101 Imaging Window: **07:32 – 11:17** Transit: **07:34 | 89°**	**C-11 HD: Focal Reducer** 
Tulip Nebula (SH2-101) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Cygnus** Coordinates: **20h 00' 57"** **35° 20' 11"** Close Star: **SAO-125122** (Altair) Catalog Objects: B-144 Imaging Window: **07:32 – 11:17** Transit: **07:34 | 89°**	**C-11 HD: Primary Focus** 
NGC-6852 (PK 42-14.1) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Aquila** Coordinates: **20h 00' 39"** **01° 43' 43"** Close Star: **SAO-144150** (65 Aql) Catalog Objects: NGC-6852/PK 42-14.1 Imaging Window: **07:32 – 09:56** Transit: **07:37 | 58°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – October 02, 2024

M-75 (NGC-6864)
Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

Constellation: **Sagittarius**
Coordinates:
20h 06’ 05”
-21° 55’ 15”

Close Star: **SAO-191524** (Formalhaut)
Catalog Objects: M-75/NGC-6864
Imaging Window: ***07:32 – 09:26**
Transit: **07:42 | 35°**

C-11 HD: Primary Focus

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

Type: **Diffuse Nebula**

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

Close Star: **SAO-125122** (Altair)
Catalog Objects: NGC-6888/Sh2-105
Imaging Window: **07:32 – 11:39**
Transit: **07:50 | 85°**

C-11 HD: Primary Focus

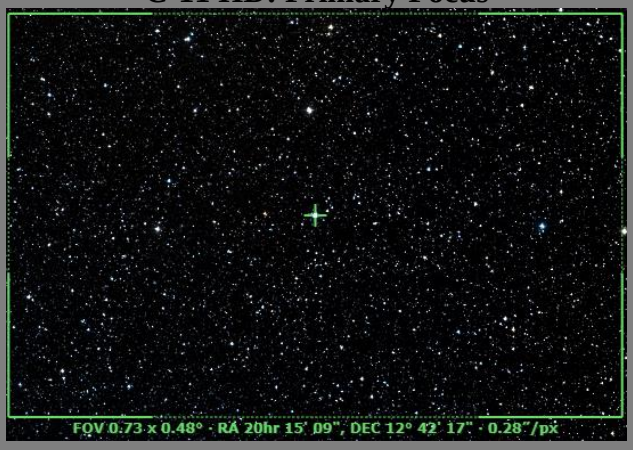
Propeller Nebula (DWB-111)
Config: |C11HD|ZWO6200MC|

Type: **Diffuse Nebula**

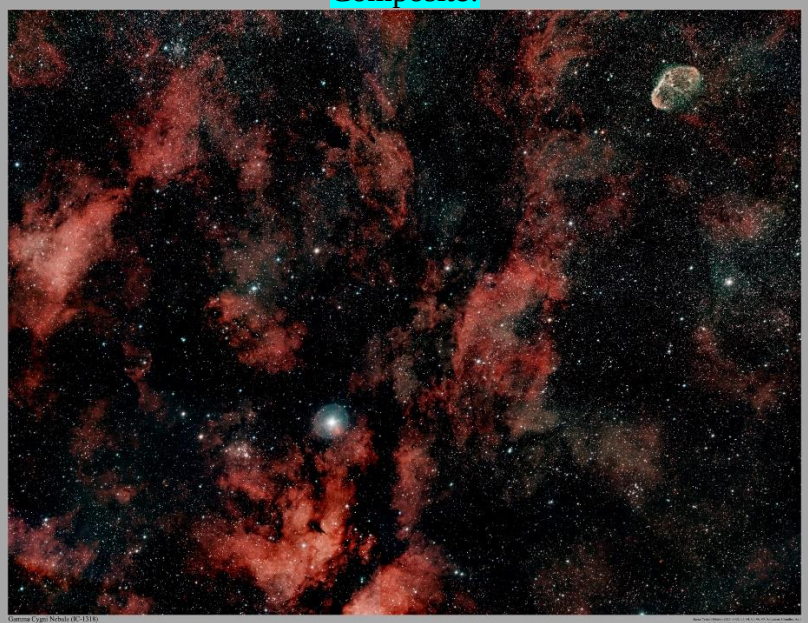
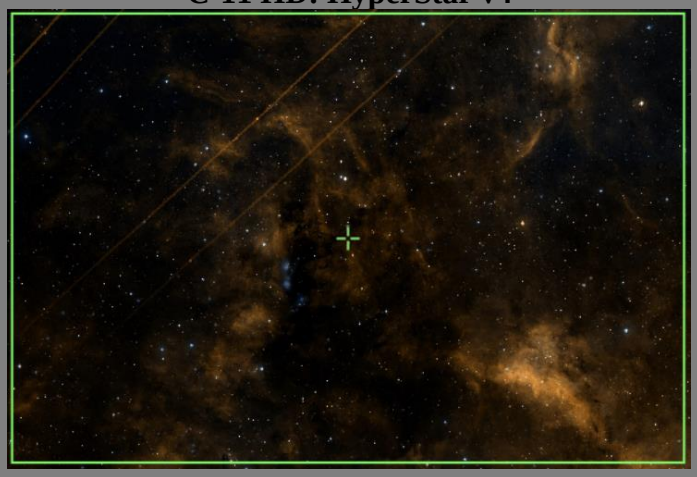
Constellation: **Cygnus**
Coordinates:
20h 16’ 09”
43° 41’ 47”
Close Ref Object: LDN 891
Close Star: **SAO-048796** (Al Fawaris)
Catalog Objects: Simeis-57/DWB-111
Imaging Window: **07:32 – 11:39**
Transit: **07:50 | 79°**

C-11 HD: Primary Focus

Prospective Imaging Objects – October 02, 2024

NGC 6891 (PK 54-12.1) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Delphinus** Coordinates: **20h 15’ 09”** **12° 42’ 17”** Close Star: **SAO-106230** (2 Del) Catalog Objects: NGC-6991 Imaging Window: **07:32 – 10:49** Transit: **07:51 | 77°**	**C-11 HD: Primary Focus** 
Little Ring Nebula (NGC-6894) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Cygnus** Coordinates: **20h 16’ 24”** **30° 33’ 57”** Close Star: **SAO-71070** (64 Cyg) Catalog Objects: NGC-6894 Imaging Window: **07:32 – 11:29** Transit: **07:53 | 87°**	**C-11 HD: Primary Focus** 
IC-4997 (PK 58-10.1) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Sagitta** Coordinates: **20h 20’ 09”** **16° 43’ 56”** Close Star: **SAO-106316** (Rotanev) Catalog Objects: IC-4997 Imaging Window: **07:32 – 11:05** Transit: **07:56 | 87°**	**C-11 HD: Primary Focus** 

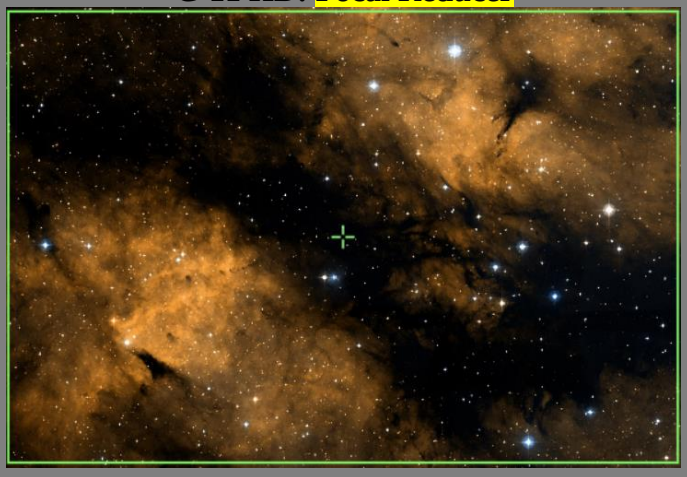
Prospective Imaging Objects – October 02, 2024

Gamma Cygni Nebula (IC-1318 A&B) Config: **C11-HD | HS | ZWO6200MC** Type: **Bright Nebula** Constellation: **Cygnus** Coordinates: Frame 1: RA=20hr 18’ 27” DEC=41°12’10” Frame 2: RA=20hr 18’ 38” DEC=38°55’33” Close Star: **SAO-49941** (Deneb) Catalog Objects: IC-1318 Imaging Window: **07:32 – 11:42** Transit: **07:53 | 81°**	**C-11 HD: HyperStar v4** Composite! 
IC-1318A Config: **C11-HD | HS | ZWO6200MC** Type: **Bright Nebula** Constellation: **Cygnus** Coordinates: **20h 22’ 52”** **42° 38’ 53”** Close Star: **SAO-49941** (Deneb) Catalog Objects: IC-1318A Imaging Window: **07:32 – 11:42** Transit: **07:53 | 81°**	**C-11 HD: HyperStar v4** 

Prospective Imaging Objects – October 02, 2024

Blue Flash Nebula (NGC-6905) Config: |C11HD|ZWO6200MC| Type: **Bright Nebula** Constellation: **Delphinus** Coordinates: **20h 22’ 24”** **20° 06’ 18”** Close Star: **SAO-108378** (Markab) Catalog Objects: NGC-6905 Imaging Window: **07:32 – 11:15** Transit: **07:59 | 77°**	**C-11 HD: Primary Focus** 
M-29 (NGC-6913) Config: |C11HD|ZWO6200MC| Type: **Open Cluster** Constellation: **Cygnus** Coordinates: **20h 24’ 06”** **38° 29’ 36”** Close Star: **SAO-90981** (Scheat) Catalog Objects: M-29/NGC-6913 Imaging Window: **07:32 – 11:46** Transit: **08:00 | 85°**	**C-11 HD: Primary Focus** 
IC-1318 Region-1 Config: |C11-HD|FR|ZWO6200MC| Type: **Bright Nebula** Constellation: **Cygnus** Coordinates: **20h 24’ 48”** **42° 29’ 00”** Close Star: **SAO-49941** (Deneb) Catalog Objects: NGC-6914 Imaging Window: **07:32 – 11:51** Transit: **08:01 | 81°**	**C-11 HD: Focal Reducer** 

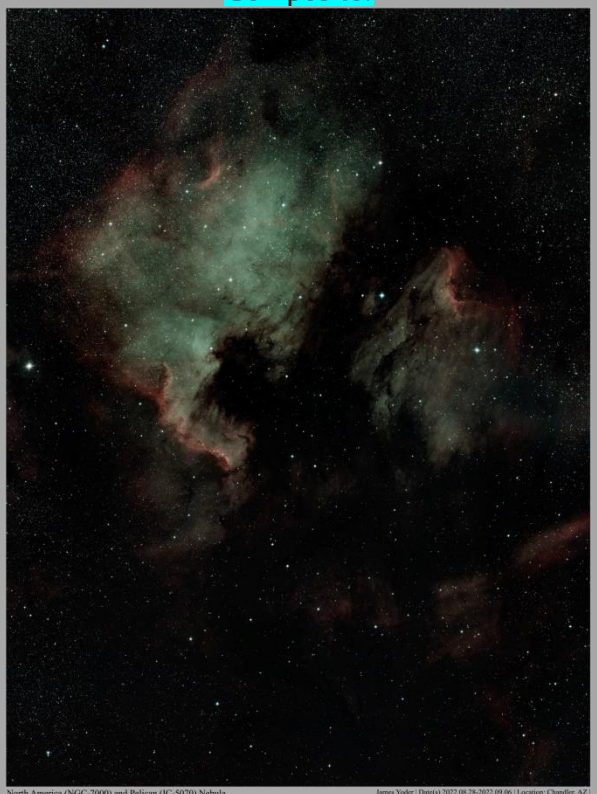
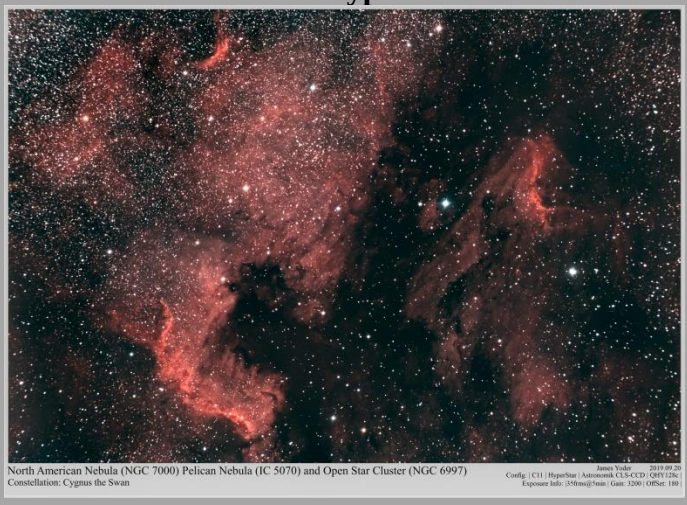
Prospective Imaging Objects – October 02, 2024

IC-1318 Region-1 Config: |C11HD|ZWO6200MC| Type: **Bright Nebula** Constellation: **Cygnus** Coordinates: **20h 25’ 07”** **42° 24’ 34”** Close Star: **SAO-49941** (Deneb) Catalog Objects: NGC-6914 Imaging Window: **07:32 – 11:51** Transit: **08:01 | 81°**	**C-11 HD: Primary Focus** 
IC-1318B Config: **C11-HD | HS | ZWO6200MC** Type: **Bright Nebula** Constellation: **Cygnus** Coordinates: **20h 22’ 57”** **40° 09’ 33”** Close Star: **SAO-67174** (Vega) Catalog Objects: IC-1318B Imaging Window: **07:32 – 11:52** Transit: **08:04 | 80°**	**C-11 HD: HyperStar v4** 
IC-1318B Config: |C11-HD|FR|ZWO6200MC| Type: **Bright Nebula** Constellation: **Cygnus** Coordinates: **20h 26’ 59”** **40° 06’ 52”** Close Star: **SAO-67174** (Vega) Catalog Objects: IC-1318B Imaging Window: **07:32 – 11:52** Transit: **08:04 | 80°**	**C-11 HD: Focal Reducer** 

Prospective Imaging Objects – October 02, 2024

IC-1318B Config: |C11HD|ZWO6200MC| Type: **Bright Nebula** Constellation: **Cygnus** Coordinates: **20h 25’ 40”** **40° 17’ 34”** Close Star: **SAO-67174** (Vega) Catalog Objects: IC-1318B Imaging Window: **07:32 – 11:52** Transit: **08:04 | 80°**	**C-11 HD: Primary Focus** 
Fireworks Galaxy(NGC-6946) Config: |C11HD|ZWO6200MC| Type: **Galaxy** Constellation: **Cepheus** Coordinates: **20° 34’ 54”** **60° 08’ 60”** Close Star: **SAO-19302** (Alderamin) Catalog Objects: NGC-6946 Imaging Window: **07:32 – 11:58** Transit: **08:11 | 63°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – October 02, 2024

Pelican & N. America Nebula (IC-5070) Config: **C11-HD | HS | ZWO6200MC** Type: **Bright Nebula** Constellation: **Cygnus** Coordinates: Frame 1: RA=20hr56’10” DEC=44°55’07” Frame 2: RA=20hr56’10” DEC=42°37’57” Close Star: **SAO-50180** (57 Cygni) Catalog Objects: IC5070 Imaging Window: **07:32 – 12:18** Transit: **08:27 | 79°**	**C-11 HD: HyperStar v4** Composite! 
Pelican & N. America Nebula (IC-5070) Config: **C11-HD | HS | ZWO6200MC** Type: **Bright Nebula** Constellation: **Cygnus** Coordinates: **20h 57’ 29”** **44° 10’ 10”** Close Star: **SAO-50180** (57 Cygni) Catalog Objects: IC5070 Imaging Window: **07:32 – 12:18** Transit: **08:27 | 79°**	**C-11 HD: HyperStar v4** 

Prospective Imaging Objects – October 02, 2024

Northern Coal Sack (LDN-904)
Config: **C11-HD | HS | ZWO6200MC**

Type: **Dark Nebula**

Constellation: **Cygnus**
Coordinates:
20h 51’ 52”
39° 13’ 34”

Close Star: **SAO-49941** (Deneb)
Catalog Objects: LDN-904
Imaging Window: **07:32 – 12:16**
Transit: **08:29 | 84°**

C-11 HD: HyperStar v4

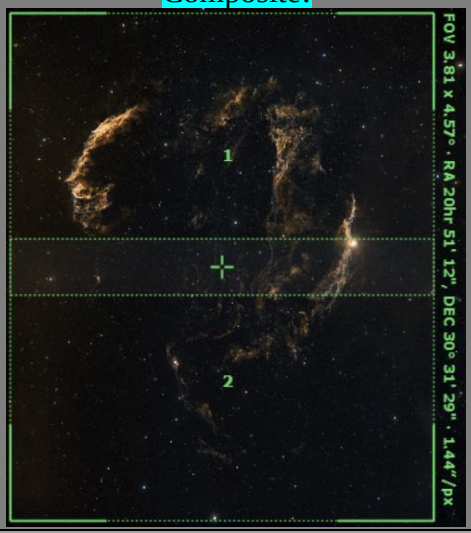
Veil Nebula (NGC-6960)
Config: **C11-HD | HS | ZWO6200MC**

Type: **Bright Nebula**

Constellation: **Cygnus**
Coordinates:
P1: RA: 20h51’12” DEC: 31°32’26”
P2: RA: 20h51’12” DEC: 29°30’31”

Close Star: **SAO-70467** (52 Cygni)
Catalog Objects: NGC-6960, 6992, 6995
Imaging Window: **07:32 – 12:06**
Transit: **08:29 | 80°**

C-11 HD: HyperStar v4
Composite!



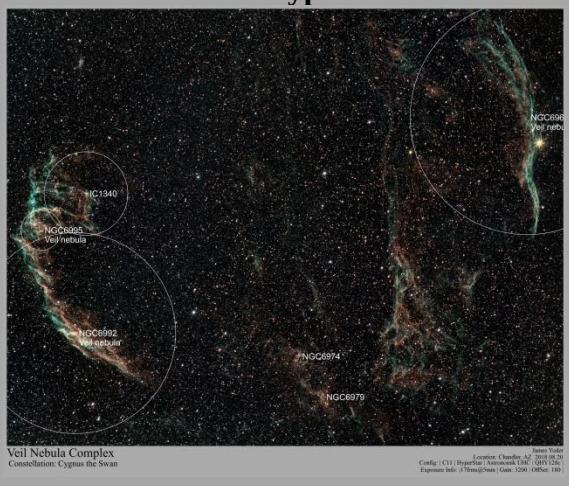
Veil Nebula (NGC-6960)
Config: **C11-HD | HS | ZWO6200MC**

Type: **Supernova Remnant**

Constellation: **Cygnus**
Coordinates:
20h 51’ 15”
31° 03’ 60”

Close Star: **SAO-70467** (52 Cygni)
Catalog Objects: NGC-6960, 6992, 6995
Imaging Window: **07:32 – 12:06**
Transit: **08:29 | 80°**

C-11 HD: HyperStar v4



Prospective Imaging Objects – October 02, 2024

Witch's Broom (NGC-6960)
Config: |C11-HD|FR|ZWO6200MC|

Type: **Bright Nebula**

Constellation: **Cygnus**
Coordinates:
P1: RA=20hr 46' 20" DEC=30° 54' 54"
P2: RA=20hr 46' 20" DEC=30° 17' 06"

Close Star: **SAO-70467** (52 Cygni)
Catalog Objects: NGC-6960

Imaging Window: **07:32 – 12:06**
Transit: **08:29 | 80°**

C-11 HD: Focal Reducer
Composite!

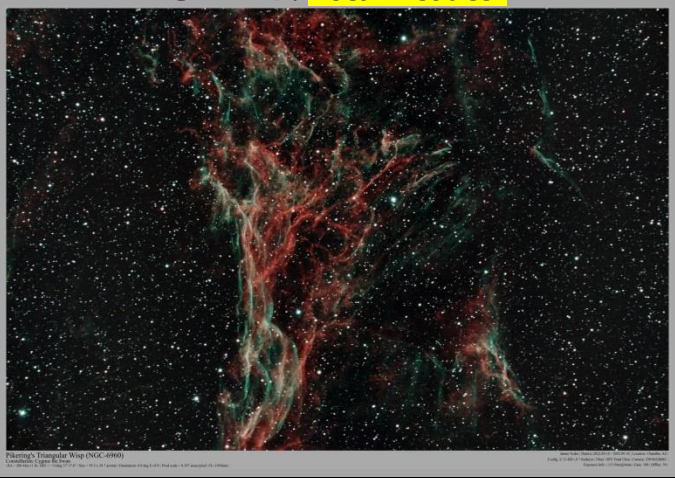
Pickering's Triangular Wisp
Config: |C11-HD|FR|ZWO6200MC|

Type: **Supernova Remnant**

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

Close Star: **SAO-70467** (52 Cygni)
Catalog Objects: NGC-6960
Imaging Window: **07:32 – 12:06**
Transit: **08:29 | 80°**

C-11 HD: Focal Reducer



M-72 (NGC-6981)
Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

Constellation: **Aquarius**
Coordinates:
20h 53' 28"
-12° 32' 11"

Close Star: **SAO-108378** (Markab)
Catalog Objects: M-72/NGC-6981
Imaging Window: ***07:32 – 11:11**
Transit: **08:30 | 44°**

C-11 HD: Primary Focus

Prospective Imaging Objects – October 02, 2024

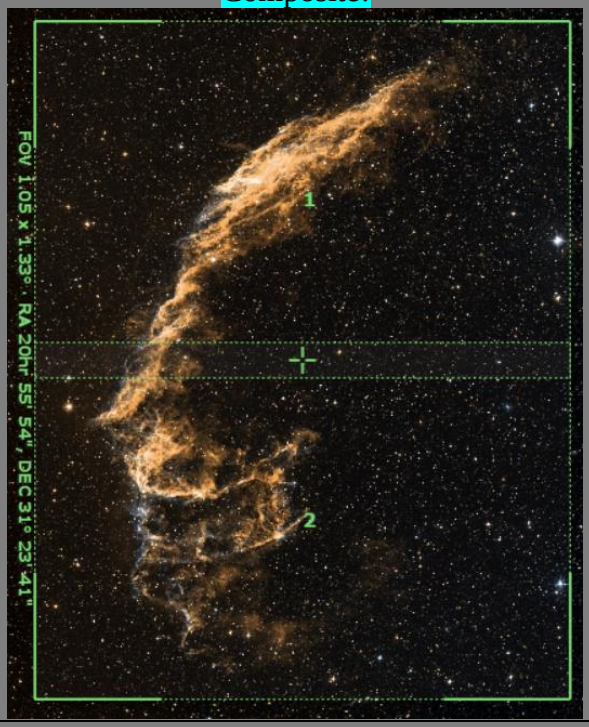
Network Nebula (NGC-6992)
Config: |C11-HD|FR|ZWO6200MC|

Type: **Supernova Remnant**

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

Close Star: **SAO-70474** (Gienah)
Catalog Objects: NGC-6992
Imaging Window: **07:32 – 12:10**
Transit: **08:32 | 88°**

C-11 HD: Focal Reducer
Composite!



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

Type: **Open Cluster**

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

Close Star: **SAO-108378** (Markab)
Catalog Objects: M-73/NGC-6994
Imaging Window: ***07:32 – 11:18**
Transit: **08:35 | 44°**

C-11 HD: Primary Focus

Prospective Imaging Objects – October 02, 2024

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

Type: **Planetary Nebula**

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

Close Star: **SAO-49941** (Deneb)
Catalog Objects: NGC-7008
Imaging Window: **07:32 – 12:29**
Transit: **08:37 | 69°**

C-11 HD: Primary Focus

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

Type: **Bright Nebula**

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

Close Star: **SAO-19302** (Alderamin)
Catalog Objects: NGC-7023
Imaging Window: **07:32 – 12:02**
Transit: **08:38 | 55°**

C-11 HD: Focal Reducer

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

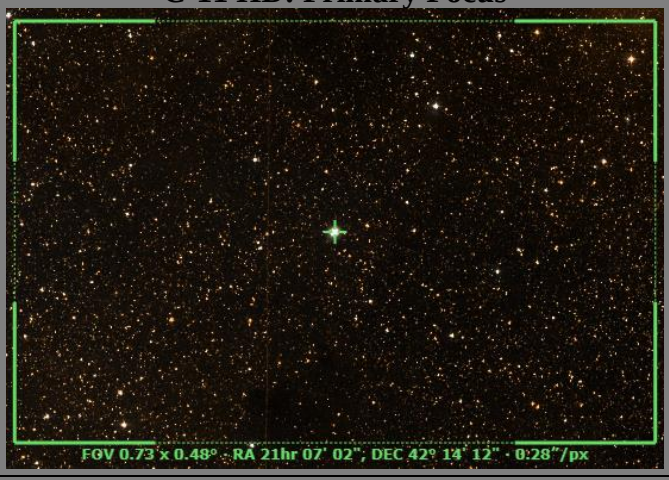
Type: **Bright Nebula**

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

Close Star: **SAO-19302** (Alderamin)
Catalog Objects: NGC-7023
Imaging Window: **07:32 – 12:02**
Transit: **08:38 | 55°**

C-11 HD: Primary Focus

Prospective Imaging Objects – October 02, 2024

Saturn Nebula (NGC-7009) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Aquarius** Coordinates: **21h 04' 11"** **-11° 21' 47"** Close Star: **SAO-191524** (Fomalhaut) Catalog Objects: NGC-7009 Imaging Window: ***07:32 – 11:30** Transit: **08:40 | 45°**	**C-11 HD: Primary Focus** 
NGC-7026 Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Cygnus** Coordinates: **21h 06' 19"** **47° 51' 10"** Close Star: **SAO-50456** Catalog Objects: NGC-7026 Imaging Window: **07:32 – 12:35** Transit: **08:42 | 45°**	**C-11 HD: Primary Focus** 
NGC-7027 Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Cygnus** Coordinates: **21h 07' 02"** **42° 14' 12"** Close Star: **SAO-50456** Catalog Objects: NGC-7027 Imaging Window: **07:32 – 12:33** Transit: **08:43 | 45°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – October 02, 2024

NGC-7048 (PK 88-1.1) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Cygnus** Coordinates: **21h 14’ 15”** **46° 17’ 21”** Close Star: **SAO-49941** (Deneb) Catalog Objects: NGC-7048 Imaging Window: **07:32 – 12:42** Transit: **08:50 | 77°**	**C-11 HD: Primary Focus** 
Pegasus Cluster (M-15) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Constellation: **Pegasus** Coordinates: **21h 29’ 58”** **12° 10’ 03”** Close Star: **SAO-127029** (Enif) Catalog Objects: M-15/NGC-7078 Imaging Window: **07:32 – 12:03** Transit: **09:06 | 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: **07:32 – 01:00** Transit: **09:08 | 75°**	**C-11 HD: Focal Reducer** 

Prospective Imaging Objects – October 02, 2024

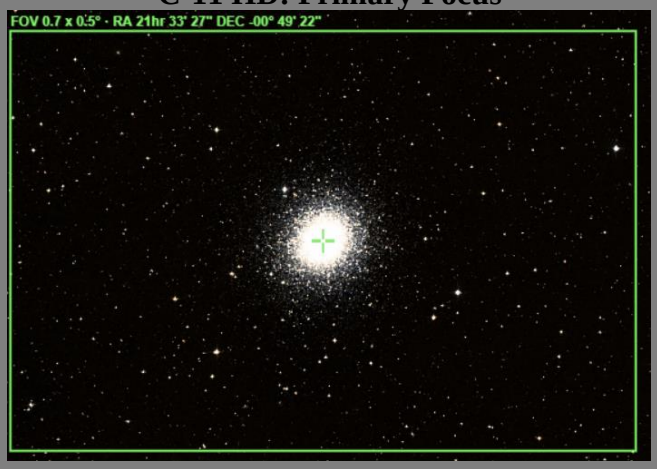
M-2 (NGC-7089)
Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

Constellation: **Aquarius**
Coordinates:
21h 33’ 27”
00° 49’ 22”

Close Star: **SAO-127029** (Enif)
Catalog Objects: M-2/NGC-7089
Imaging Window: **07:32 – 11:16**
Transit: **09:09 | 56°**

C-11 HD: Primary Focus



NGC-7094
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Pegasus**
Coordinates:
21h 36’ 53”
12° 47’ 22”

Close Star: **SAO-127029** (Enif)
Catalog Objects: NGC-7094
Imaging Window: **07:32 – 12:11**
Transit: **09:13 | 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”

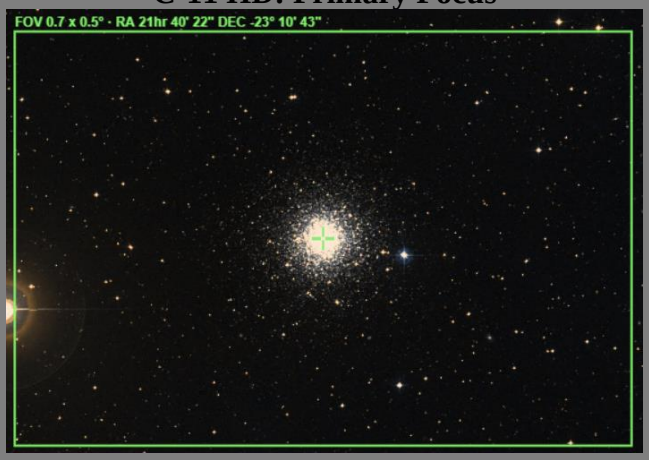
Close Star: **SAO-19302** (Alderamin)
Catalog Objects: IC-1396/Sh2-131
Imaging Window: **07:32 – 01:06**
Transit: **09:15 | 66°**

C-11 HD: HyperStar v4

Prospective Imaging Objects – October 02, 2024

Elephant Trunk (IC-1396) Config: |C11-HD|FR|ZWO6200MC| Type: **Bright & Dark Nebula** Constellation: **Cepheus** Coordinates: **21h 40’ 00”** **58° 03’ 31”** Close Star: **SAO-19302** (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: **07:32 – 01:06** Transit: **09:15 | 66°**	**C-11 HD: Focal Reducer** 
Elephant Trunk (IC-1396) Config: |C11-HD|FR|ZWO6200MC| Type: **Bright Nebula** Constellation: **Cepheus** Coordinates: **21h 34’ 39”** **57° 29’ 02”** Close Star: **SAO-19302** (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: **07:32 – 01:06** Transit: **09:15 | 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: **07:32 – 01:06** Transit: **09:15 | 66°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – October 02, 2024

Elephant Trunk (IC-1396) Config: |C11HD|ZWO6200MC| Type: **Bright & Dark Nebula** Constellation: **Cepheus** Coordinates: **21h 34’ 44”** **57° 28’ 44”** Close Star: **SAO-19302** (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: **07:32 – 01:06** Transit: **09:15 | 66°**	**C-11 HD: Primary Focus** 
Elephant Trunk (IC-1396) Config: |C11HD|ZWO6200MC| Type: **Bright & Dark Nebula** Constellation: **Cepheus** Coordinates: **21h 40’ 40”** **58° 25’ 34”** Close Star: **SAO-19302** (Alderamin) Catalog Objects: IC-1396/Sh2-131 Imaging Window: **07:32 – 01:06** Transit: **09:15 | 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: ***07:32 – 11:33** Transit: **09:16 | 34°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – October 02, 2024

NGC 7139
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

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

Close Star: **SAO-019302** (Alderamin)
Catalog Objects: NGC-7139
Imaging Window: **07:32 – 01:02**
Transit: **09:22 | 60°**

C-11 HD: Primary Focus

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

Type: **Bright & Dark Nebula**

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

Close Star: **SAO-5105** (Rho Cygni)
Catalog Objects: B-168, IC-5146
Imaging Window: **07:32 – 01:22**
Transit: **09:29 | 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: **07:32 – 01:22**
Transit: **09:29 | 76°**

C-11 HD: Focal Reducer

Prospective Imaging Objects – October 02, 2024

Cocoon Nebula (IC-5146) Config: |C11HD|ZWO6200MC| Type: **Bright Nebula** Constellation: **Cygnus** Coordinates: **21h 53’ 24”** **47° 16’ 00”** Close Star: **SAO-5105** (Rho Cygni) Catalog Objects: IC-5146 Imaging Window: **07:32 – 01:22** Transit: **09:29 | 76°**	**C-11 HD: Primary Focus** 
Dark Shark (LDN 1235) Config: |C11-HD|FR|ZWO6200MC| Type: **Bright & Dark Nebula** Constellation: **Cepheus** Coordinates: **22h 11’ 49”** **73° 12’ 16”** Close Star: **SAO-20268** (Iota Cephei) Catalog Objects: LDN-1235 Imaging Window: **07:32 – 12:36** Transit: **09:51 | 50°**	**C-11 HD: Focal Reducer** 
Helix Nebula (NGC-7293) Config: |C11HD|ZWO6200MC| Type: **Planetary nebula** Constellation: **Aquarius** Coordinates: **22h 29’ 39”** **-20° 48’ 36”** Close Star: **SAO-164644** (Delta Cap) Catalog Objects: NGC-7293 Imaging Window: ***08:15 – 11:52** Transit: **10:06 | 36°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – October 02, 2024

Wolf's Cave (VdB-152)
Config: **C11-HD | HS | ZWO6200MC**

Type: **Bright & Dark Nebula**

Constellation: **Cepheus**
Coordinates:
22h 17' 03"
70° 21' 54"

Close Star: **SAO-20268** (Iota Cephei)
Catalog Objects: B-168, IC-5146
Imaging Window: **07:32 – 01:22**
Transit: **09:29 | 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: **07:32 – 01:22**
Transit: **09:29 | 76°**

C-11 HD: Focal Reducer

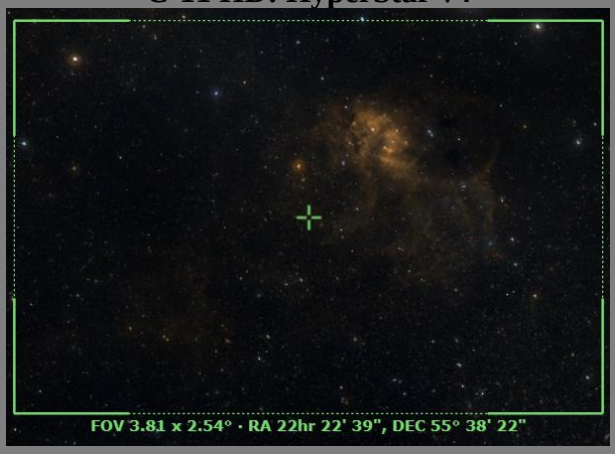
SH2-132
Config: **C11-HD | HS | ZWO6200MC**

Type: **Bright Nebula**

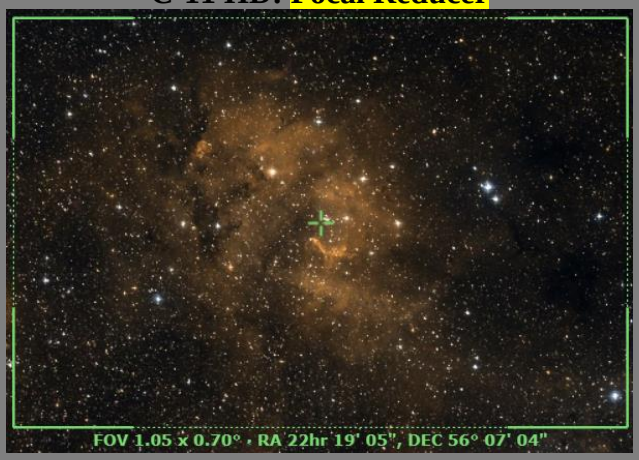
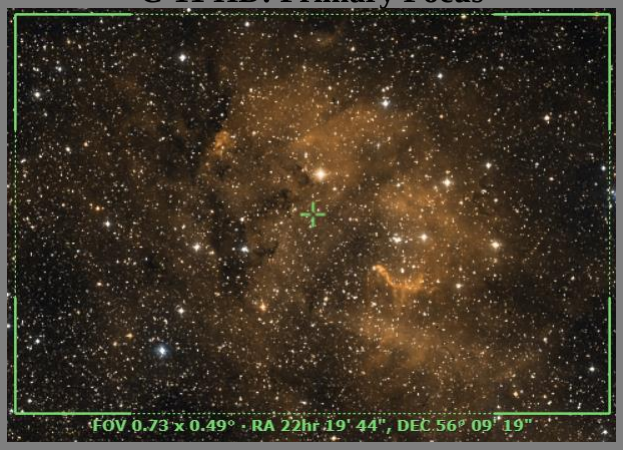
Constellation: **Cepheus**
Coordinates:
22h 22' 39"
55° 38' 22"

Close Star: **SAO-20268** (Iota Cephei)
Catalog Objects: SH2-132
Imaging Window: **07:32 – 01:47**
Transit: **09:55 | 67°**

C-11 HD: HyperStar v4



Prospective Imaging Objects – October 02, 2024

SH2-132 Config: |C11-HD|FR|ZWO6200MC| Type: **Bright Nebula** Constellation: **Cepheus** Coordinates: **22h 19’ 05”** **56° 07’ 04”** Close Star: **SAO-20268** (Iota Cephei) Catalog Objects: SH2-132 Imaging Window: **07:32 – 01:47** Transit: **09:55 | 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: **07:32 – 01:47** Transit: **09:55 | 67°**	**C-11 HD: Primary Focus** 
Stephan’s Quintet & NGC 7331 (NGC 7317, 7331) Config: |C11-HD|FR|ZWO6200MC| Type: **Bright Nebula** Constellation: **Pegasus** Coordinates: **22h 36’ 40”** **34° 13’ 25”** Camera Rotation = 115° East (-245) Close Star: **SAO-72191** (1 Lacertae) Catalog Objects: NGC7317, NGC7331 Imaging Window: **07:32 – 01:53** Transit: **10:12 | 89°**	**C-11 HD: Focal Reducer** 

Prospective Imaging Objects – October 02, 2024

Stephan's Quintet
Config: |C11HD|ZWO6200MC|

Type: **Bright Nebula**

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

Close Star: **SAO-72191** (1 Lacertae)
Catalog Objects: NGC7317
Imaging Window: **07:32 – 01:53**
Transit: **10:12 | 89°**

C-11 HD: Primary Focus

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

Type: **Galaxy Cluster**

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

Close Star: **SAO-72191** (1 Lacertae)
Catalog Objects: NGC-7331
Imaging Window: **07:32 – 01:55**
Transit: **10:13 | 89°**

C-11 HD: Primary Focus

Wizard Nebula (SH 2-142)

Config: |C11-HD|FR|ZWO6200MC|

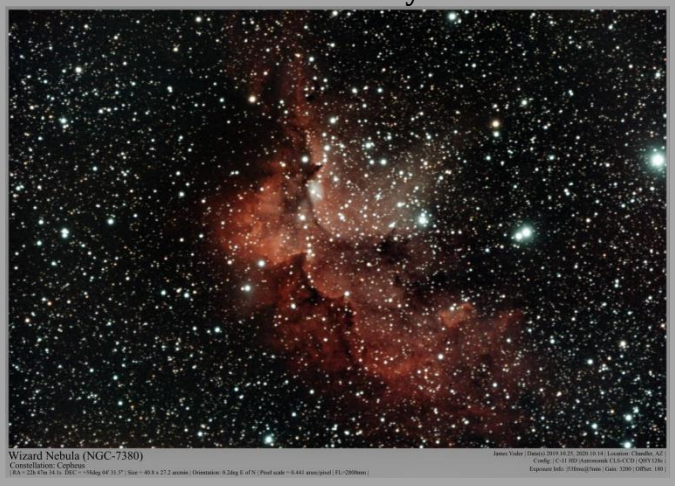
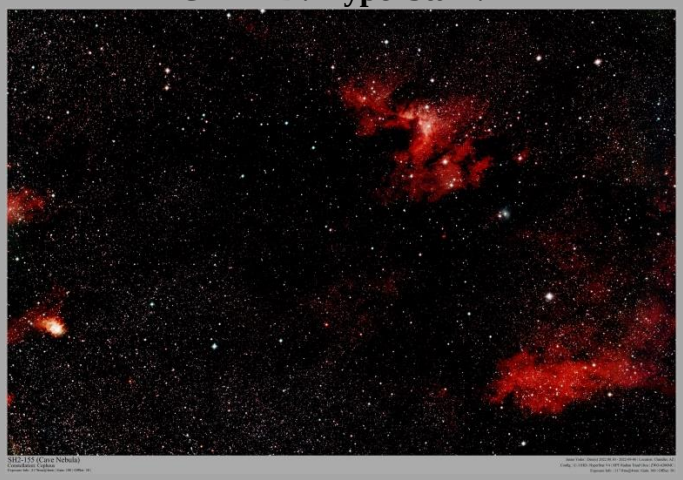
Type: **Diffuse Nebula**

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

Close Star: **SAO-20268** (Iota Cephei)
Catalog Objects: SH2-142
Imaging Window: **07:32 – 02:14**
Transit: **10:23 | 89°**

C-11 HD: Focal Reducer

Prospective Imaging Objects – October 02, 2024

Wizard Nebula (SH 2-142) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Cepheus** Coordinates: **22h 47’ 26”** **58° 03’ 03”** Close Star: **SAO-20268** (Iota Cephei) Catalog Objects: SH2-142 Imaging Window: **07:32 – 02:14** Transit: **10:23 | 89°**	**C-11 HD: Primary Focus** 
Cave Nebula (SH2-155) Config: **C11-HD | HS | ZWO6200MC** Type: **Bright & Dark Nebula** Constellation: **Cepheus** Coordinates: **23h 00’ 57”** **62° 04’ 09”** Close Star: **SAO-20268** (Iota Cephei) Catalog Objects: SH2-155 Imaging Window: **07:32 – 02:16** Transit: **10:33 | 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: **07:32 – 02:16** Transit: **10:33 | 61°**	**C-11 HD: Focal Reducer** 

Prospective Imaging Objects – October 02, 2024

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

Type: **Bright & Dark Nebula**

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

Close Star: **SAO-20268** (Iota Cephei)
Catalog Objects: SH2-155
Imaging Window: **07:32 – 02:16**
Transit: **10:33 | 61°**

C-11 HD: Primary Focus

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

Type: **Barred Spiral Galaxy**

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

Close Star: **SAO-127340** (Baham)
Catalog Objects: NGC-7479
Imaging Window: **07:49 – 01:38**
Transit: **10:41 | 62°**

C-11 HD: Primary Focus

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

Type: **Diffuse Nebula**

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

Close Star: **SAO-21133** (Caph)
Catalog Objects: SH2-157, NGC-7635
Imaging Window: **07:32 – 02:40**
Transit: **10:52 | 63°**

C-11 HD: HyperStar v4

Prospective Imaging Objects – October 02, 2024

Lobster Claw (SH2-157) Config: |C11-HD|FR|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Cassiopeia** Coordinates: **23h 16’ 00”** **59° 57’ 32”** Close Star: **SAO-21133** (Caph) Catalog Objects: SH2-157 Imaging Window: **07:32 – 02:40** Transit: **10:52 | 63°**	**C-11 HD: Focal Reducer** 
Bubble Nebula (NGC-7635) Config: |C11HD|ZWO6200MC| Type: **Bright & Dark Nebula** Constellation: **Cepheus** Coordinates: **23h 20’ 12”** **61° 11’ 00”** Close Star: **SAO-21133** (Caph) Catalog Objects: NGC-7635, SH2-162 Imaging Window: **07:32 – 02:42** Transit: **10:57 | 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: **08:17 – 01:42** Transit: **10:56 | 65°**	**C-11 HD: Focal Reducer** 

Prospective Imaging Objects – October 02, 2024

Pegasus Cluster (NGC-7619) Config: |C11HD|ZWO6200MC| Type: **Cluster of Galaxies** Constellation: **Pegasus** Coordinates: **23h 20’ 13”** **08° 10’ 57”** Close Star: **SAO-128085** (g Piscium) Catalog Objects: NGC-7619 Imaging Window: **08:17 – 01:42** Transit: **10:56 | 65°**	**C-11 HD: Primary Focus** 
M-52 (NGC-7654) Config: |C11HD|ZWO6200MC| Type: **Open Cluster** Constellation: **Cassiopeia** Coordinates: **23h 24’ 48”** **61° 36’ 00”** Close Star: **SAO-21133** (Caph) Catalog Objects: M-52 Imaging Window: **07:32 – 02:46** Transit: **11:00 | 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: **07:32 – 02:52** Transit: **11:02 | 81°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – October 02, 2024

Blue Match Nebula (SH2-155)
Config: **C11-HD | HS | ZWO6200MC**

Type: **Reflection Nebula**

Constellation: **Andromeda**
Coordinates:
23h 39’ 24”
48° 51’ 37”
Nearby: NGC-7686
Close Star: **SAO-73765** (Alpheratz)
Catalog Objects: VdB 158/ LBN 534
Imaging Window: **07:32 – 02:59**
Transit: **11:05 | 81°**

C-11 HD: HyperStar v4

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

Type: **Open Cluster**

Constellation: **Cassiopeia**
Coordinates:
23h 57’ 37”
56° 42’ 21”

Close Star: **SAO-21607** (Shedar)
Catalog Objects: NGC-7789
Imaging Window: **07:48 – 03:25**
Transit: **11:33 | 65°**

C-11 HD: Primary Focus

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

Type: **Emission Nebula**
Constellation: **Cepheus**

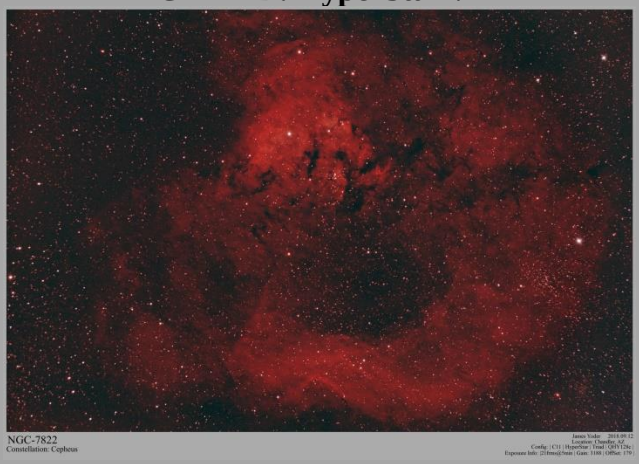
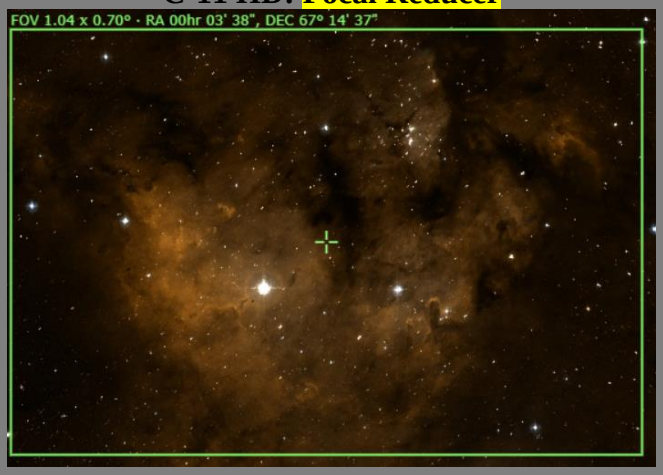
Coordinates:
Frame 01
RA: **00hr 03’ 42”** DEC: **67° 41’ 45”**
Frame 02
RA: **00hr 03’ 42”** DEC: **65° 35’ 15”**

Close Star: **SAO-10818**
Catalog Objects: Ced 214, NGC 7822, SH2-171

Imaging Window: **08:15 – 03:05**
Transit: **11:37 | 56°**

C-11 HD: HyperStar v4
Composite!

Prospective Imaging Objects – October 02, 2024

NGC-7822 (CED-214) Config: **C11-HD | HS | ZWO6200MC** Type: **Diffuse Nebula** Constellation: **Cepheus** Coordinates: **00h 01' 27"** **67° 28' 37"** Close Star: **SAO-20268** Catalog Objects: NGC-7822/CED-214 Imaging Window: **08:15 – 03:05** Transit: **11:37 | 56°**	**C-11 HD: HyperStar v4** 
NGC-7822 (CED-214) Config: |C11-HD|FR|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Cepheus** Coordinates: **00h 03' 38"** **67° 14' 37"** Close Star: **SAO-20268** Catalog Objects: NGC-7822/CED-214 Imaging Window: **08:15 – 03:05** Transit: **11:37 | 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: **08:15 – 03:05** Transit: **11:37 | 56°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – October 02, 2024

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: **09:00 – 02:44**
Transit: **11:49 | 51°**

C-11 HD: Primary Focus

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: **08:24 – 03:30**
Transit: **11:54 | 87°**

C-11 HD: Primary Focus

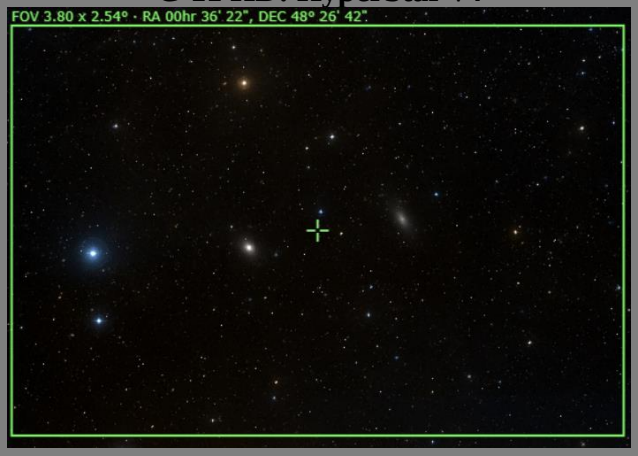
NGC-147 & NGC-185
Config: **C11-HD | HS | ZWO6200MC**

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: **08:22 – 04:02**
Transit: **12:09 | 75°**

C-11 HD: HyperStar v4



Prospective Imaging Objects – October 02, 2024

NGC-147 & NGC-185

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

Type: **Galaxy Pair**

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

Close Star: **SAO-21609 (Shedar)**
Catalog Objects: NGC-147, NGC-185
Imaging Window: **08:22 – 04:02**
Transit: **12:09 | 75°**

C-11 HD: Focal Reducer
Composite!

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: **08:22 – 04:02**
Transit: **12:09 | 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: **08:27 – 04:08**
Transit: **12:14 | 75°**

C-11 HD: Primary Focus

Prospective Imaging Objects – October 02, 2024

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: **08:33 – 04:06**
Transit: **12:16 | 82°**

C-11 HD: Primary Focus

M-32

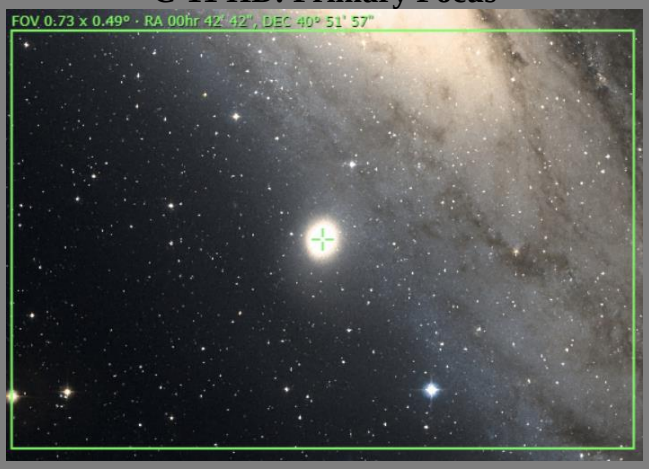
Config: **C11-HD | ZWO6200MC**

Type: **Elliptical Galaxy**

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

Close Star: **SAO-73765 (Sirrah)**
Catalog Objects: M-32
Imaging Window: **08:36 – 04:07**
Transit: **12:18 | 83°**

C-11 HD: Primary Focus



Andromeda Galaxy (M 31)

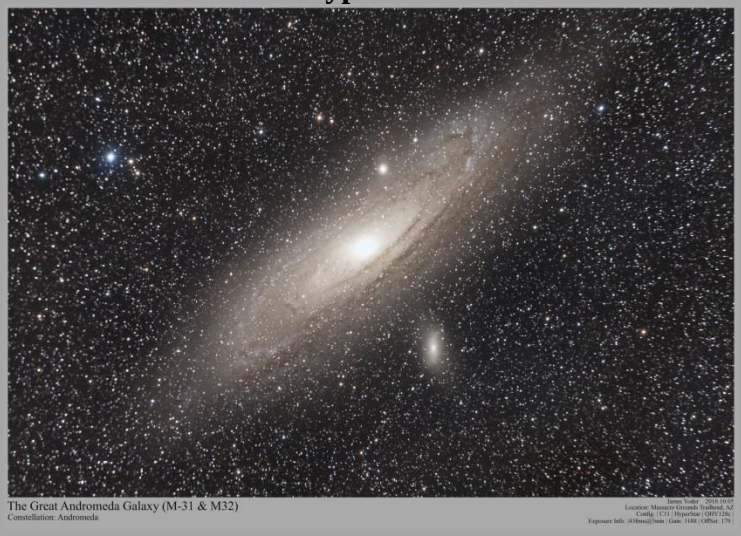
Config: |C11|HS|ZWO6200MCc|

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

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

Imaging Window: **10:30 – 04:38**
Transit: **12:18 | 82°**

Hyperstar



Prospective Imaging Objects – October 02, 2024

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: **10:30 – 04:38** Transit: **12:18 | 82°**	**C-11 HD: HyperStar v4**  The Andromeda Galaxy (M-31, M-32, NGC-224) Constellation: Andromeda
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: ***09:37 – 03:10** Transit: **12:23 | 45°**	**C-11 HD: Focal Reducer**  Skull Nebula (NGC-246) and Galaxy NGC-255 Constellation: Cetus the Whale
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: ***09:37 – 03:10** Transit: **12:23 | 45°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – October 02, 2024

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: ***09:56 – 02:55** Transit: **12:23 | 36°**	**C-11 HD: Primary Focus**  Needle's Eye Galaxy (NGC-247) Constellation: Cetus
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: ***10:26 – 02:25** Transit: **12:23 | 31°**	**C-11 HD: HyperStar v4**  Sculptor galaxy (NGC-253) and Globular Cluster (NGC-288) Constellation: Sculptor
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: ***10:26 – 02:25** Transit: **12:23 | 31°**	**C-11 HD: Primary Focus**  Sculptor Galaxy (NGC 253) Constellation: Sculptor

Prospective Imaging Objects – October 02, 2024

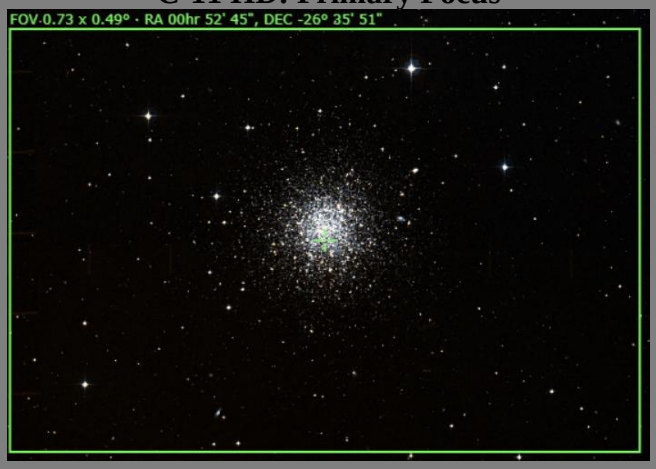
NGC-288
Config: **C11-HD | ZWO6200MC**

Type: **Globular Cluster**

Constellation: **Sculptor**
Coordinates:
00h 52’ 45”
-26° 35’ 51”

Close Star: **SAO-147420 (Diphda)**
Catalog Objects: NGC-288
Imaging Window: ***10:45 – 02:14**
Transit: **12:28 | 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: ***07:32 – 05:00**
Transit: **12:23 | 38°**

C-11 HD: Focal Reducer

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: **08:43 – 04:20**
Transit: **12:28 | 67°**

C-11 HD: Focal Reducer

Prospective Imaging Objects – October 02, 2024

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: **08:55 – 04:22** Transit: **12:35 | 62°**	**C-11 HD: HyperStar v4**  Gama Cassiopeiae Nebula (SH2-185, LBN-620, IC-59 & IC-163)
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: **08:55 – 04:22** Transit: **12:35 | 62°**	**C-11 HD: Primary Focus** 
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: **10:25 – 03:02** Transit: **12:40 | 59°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – October 02, 2024

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: **09:11 – 04:45** Transit: **12:55 | 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: **11:06 – 04:38** Transit: **02:49 | 65°**	**C-11 HD: HyperStar v4** 
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: **09:11 – 04:45** Transit: **12:55 | 65°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – October 02, 2024

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: **11:03 – 03:06**
Transit: **01:01 | 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: **09:22 – 04:56**
Transit: **01:06 | 65°**

C-11 HD: Primary Focus

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: **09:28 – 04:56**
Transit: **01:09 | 63°**

C-11 HD: Primary Focus

Prospective Imaging Objects – October 02, 2024

Triangulum Galaxy (M-33)

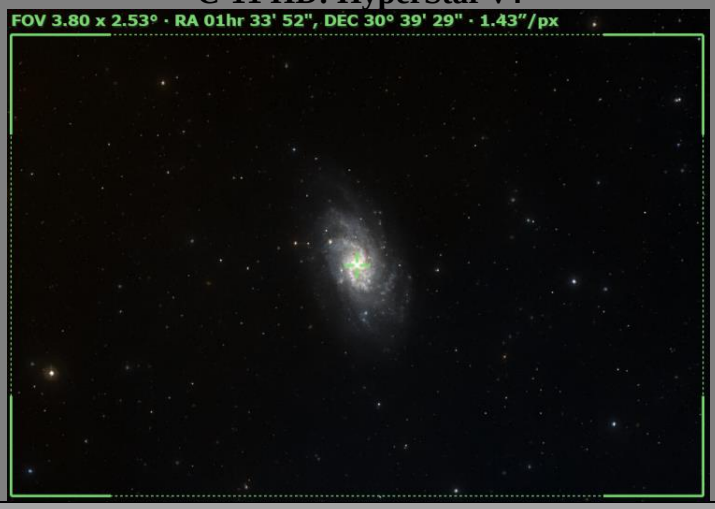
Config: **C11 | HS | ZWO6200MC**

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

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

Imaging Window: **09:39 – 04:46**
Transit: **01:09 | 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: **09:39 – 04:46**
Transit: **01:09 | 87°**

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

Triangulum Galaxy (M-33)

Config: |ZWO6200MC|

Type: **Galaxy**
Peak: **Oct 14**
Constellation: **Triangulum**
Coordinates:
01° 34’ 53.37”
30° 45’ 11.2”

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

Imaging Window: **09:39 – 04:46**
Transit: **01:09 | 87°**

Primary Focus

Prospective Imaging Objects – October 02, 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: **10:12 – 04:19**
Transit: **01:12 | 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: **09:31 – 05:00**
Transit: **01:18 | 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: **10:26 – 04:50**
Transit: **01:35 | 76°**

C-11 HD: Primary Focus

Prospective Imaging Objects – October 02, 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: **10:13 – 05:00**
Transit: **01:58 | 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: **10:14 – 05:00**
Transit: **01:58 | 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: **10:28 – 05:00**
Transit: **02:03 | 90°**

Primary Focus

Prospective Imaging Objects – October 02, 2024

Fish Head Nebula (IC-1795)

Config: |C11-HD|FR|ZWO6200MC|

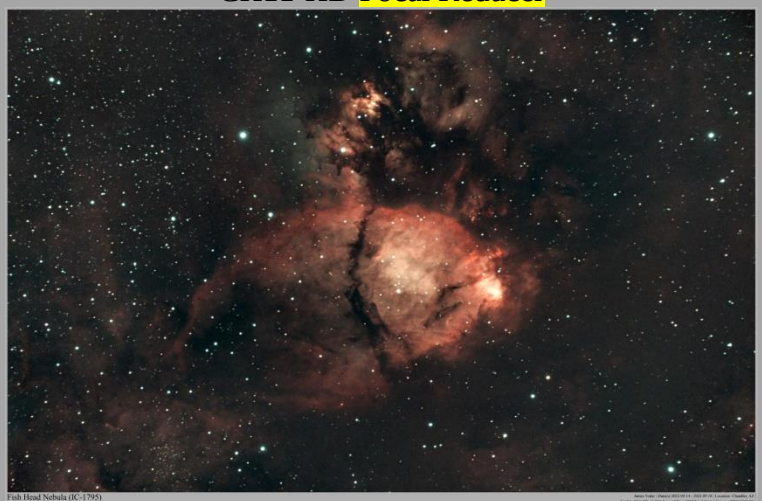
Type: **Bright Nebula**
Constellation: **Cassiopeia**

Coordinates:
02h 27’ 03”
62° 02’ 31”

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

Imaging Window: **10:23 – 05:00**
Transit: **02:01 | 87°**

CH11-HD Focal Reducer



Heart and Soul Nebulas

Config: **C11 | HS | ZWO6200MC**

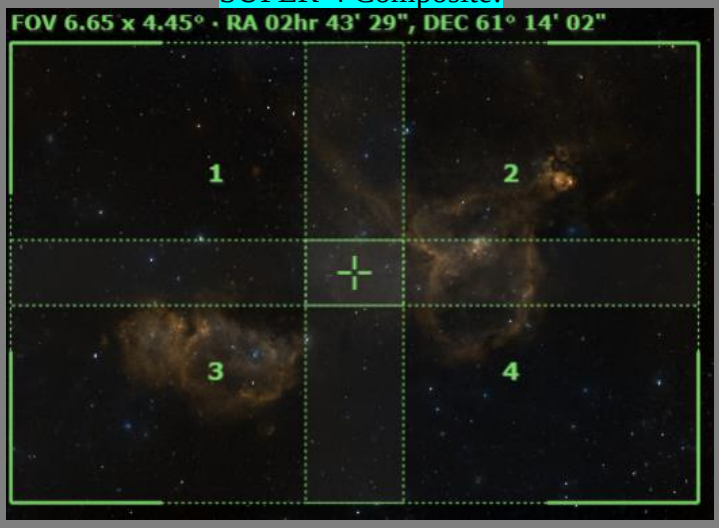
Type: **Diffuse Nebula**

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: **10:46 – 05:00**
Transit: **02:27 | 63°**

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



Heart Nebula (IC 1805)

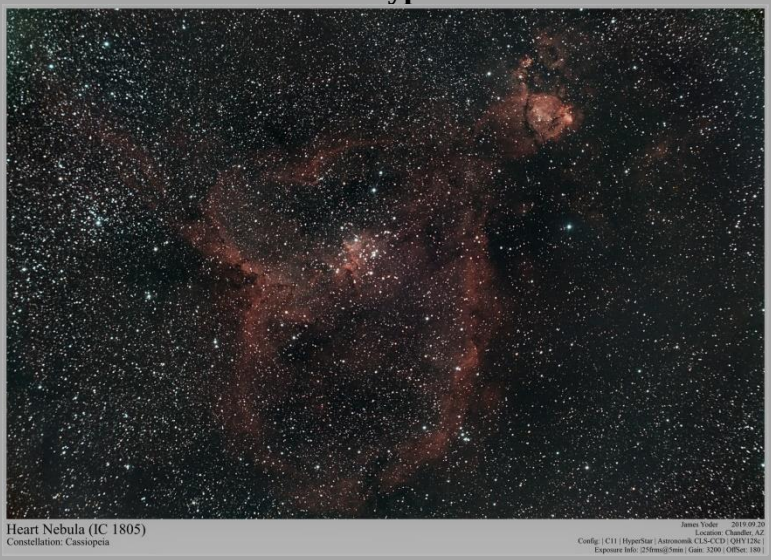
Config: **C11-HD | HS | ZWO6200MC**

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: **10:29 – 05:00**
Transit: **02:08 | 62°**

C-11 HD: HyperStar v4



Prospective Imaging Objects – October 02, 2024

Heart Nebula (IC 1805)

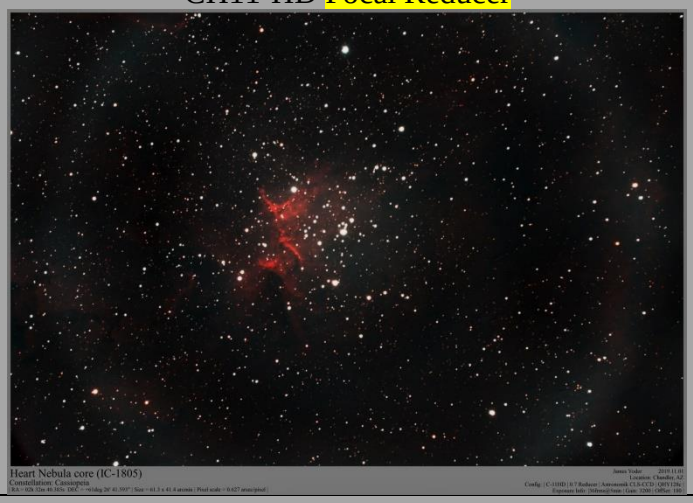
Config: |C11-HD|FR|ZWO6200MC|

Type: **Diffuse Nebula**
Constellation: **Cassiopeia**
Coordinates:
02hr 26’ 36”
62° 06’ 53”

Close Star: SAO-12031
Catalog Objects: IC 1805

Imaging Window: **10:29 – 05:00**
Transit: **02:08 | 62°**

CH11-HD Focal Reducer



Heart Nebula (IC-1805)

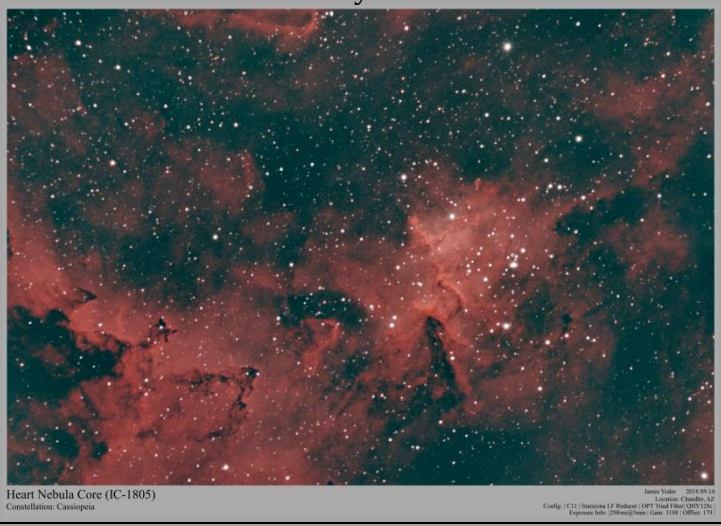
Config: |C1|LF|ZWO6200MC|

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: **10:29 – 05:00**
Transit: **02:08 | 62°**

Primary Focus



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: **12:10 – 04:31**
Transit: **02:17 | 57°**

CH11-HD Focal Reducer

Prospective Imaging Objects – October 02, 2024

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: **12:10 – 04:31**
Transit: **02:17 | 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: **10:34 – 05:00**
Transit: **02:17 | 81°**

Primary Focus

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: **12:13 – 04:30**
Transit: **02:18 | 57°**

C-11 HD: Primary Focus

Prospective Imaging Objects – October 02, 2024

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: **10:46 – 05:00** Transit: **02:27 | 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: **10:46 – 05:00** Transit: **02:27 | 63°**	Primary Focus 
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: **11:12 – 05:00** Transit: **02:55 | 82°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – October 02, 2024

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: **11:33 – 05:00**
Transit: **03:04 | 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: ***01:14 – 04:59**
Transit: **03:08 | 31°**

C-11 HD: Primary Focus

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: **11:47 – 05:00**
Transit: **03:20 | 89°**

C-11 HD: Primary Focus

Prospective Imaging Objects – October 02, 2024

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: **11:47 – 05:00**
Transit: **03:20 | 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: **12:03 – 05:00**
Transit: **03:21 | 81°**

C-11 HD: HyperStar v4

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: **12:03 – 05:00**
Transit: **03:21 | 81°**

Primary Focus

Prospective Imaging Objects – October 02, 2024

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: **12:01 – 05:00** Transit: **03:38 | 87°**	**C-11 HD: HyperStar v4**  California Nebula (NGC-1499) Constellation: Perseus
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: **12:02 – 05:00** Transit: **03:42 | 62°**	**C-11 HD: Primary Focus**  NGC-1501 (Oyster Nebula) Constellation: Camelopardalis
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: **12:14 – 05:00** Transit: **03:44 | 87°**	**C-11 HD: Primary Focus**  NGC-1514 (Crystal Ball Nebula) Constellation: Taurus

Prospective Imaging Objects – October 02, 2024

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: ***01:11 – 05:00**
Transit: **03:49 | 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: **12:48 – 05:00**
Transit: **03:57 | 76°**

C-11 HD: Primary Focus

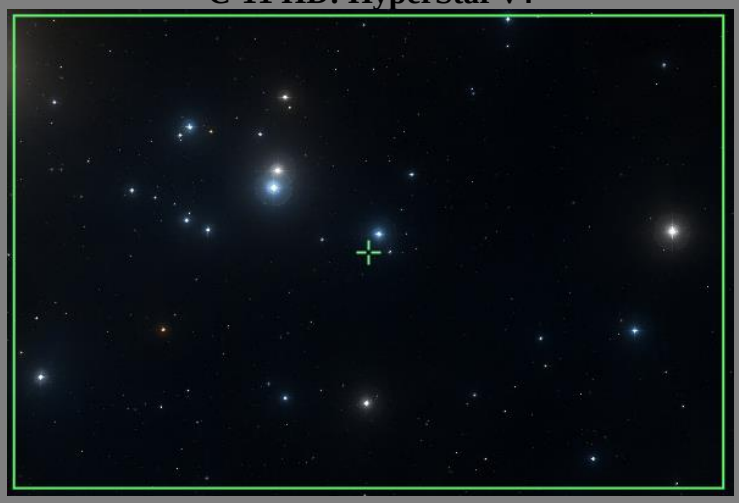
Hyades (Mel 25)
Config: **C11-HD | HS | ZWO6200MC**

Type: **Open Cluster**
Constellation: **Taurus**
Coordinates:
04hr 26' 34"
15° 31' 39"

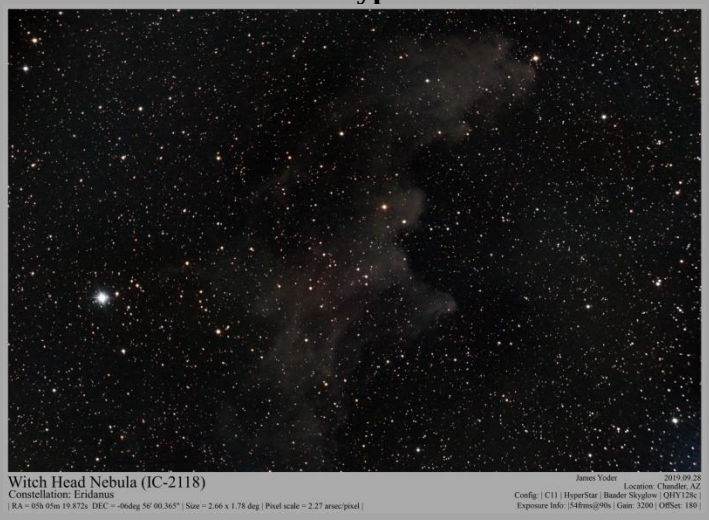
Close Star: SAO-56840
Catalog Objects: Mel 25

Imaging Window: **01:02 – 05:00**
Transit: **04:05 | 73°**

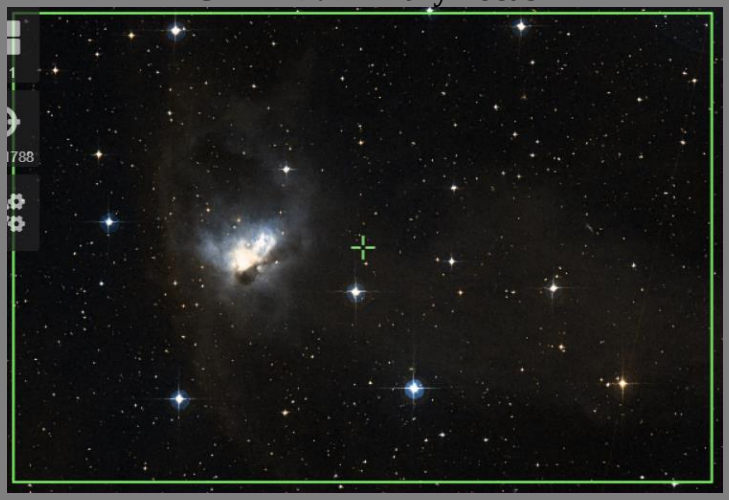
C-11 HD: HyperStar v4



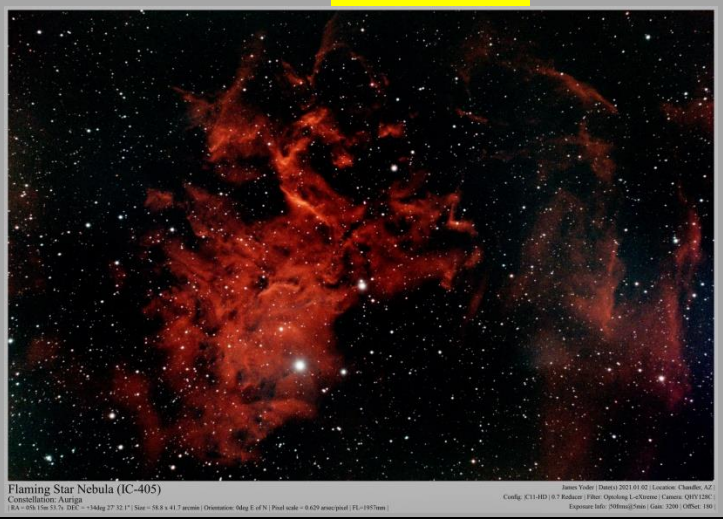
Prospective Imaging Objects – October 02, 2024

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: **12:29 – 05:00** Transit: **04:05 | 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: ***01:37 – 05:00** Transit: **04:37 | 49°**	**C-11 HD: HyperStar v4** 
Witch Head Nebula (IC 2118) Config: |C11HD|ZWO6200MC| Type: **Bright Nebula** Peak: Constellation: **Eridanus** Coordinates: **05hr 07’ 07”** **-06° 20’ 07”** Close Star: SAO-131794 Catalog Objects: IC 2118 Imaging Window: ***01:37 – 05:00** Transit: **04:37 | 49°**	**C-11 HD: Primary Focus** 

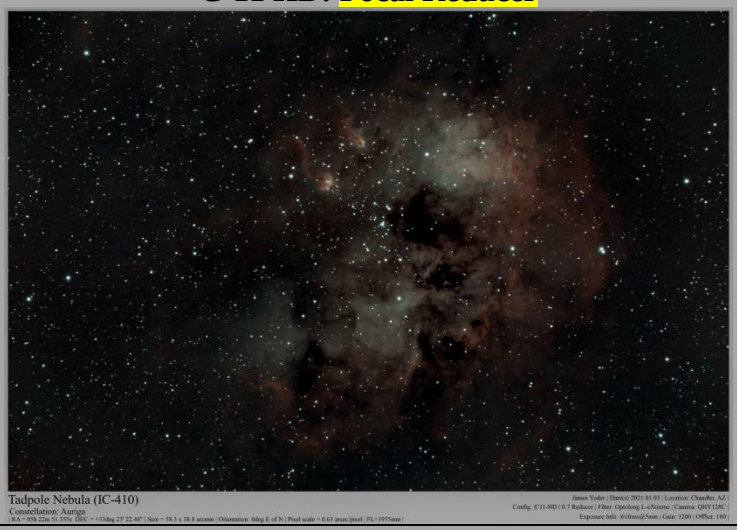
Prospective Imaging Objects – October 02, 2024

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: **02:55 – 05:00** Transit: **04:42**	**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: **02:55 – 05:00** Transit: **04:42**	**C-11 HD: Focal Reducer** 
Foxface Nebula (NGC 1788) Config: |C11HD|ZWO6200MC| Type: **Bright Nebula** Peak: Constellation: **Orion** Coordinates: **05hr 06’ 26”** **-03° 20’ 13”** Close Star: SAO-131794 Catalog Objects: NGC 1788 Imaging Window: **02:55 – 05:00** Transit: **04:42**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – October 02, 2024

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: **01:17 – 05:00** Transit: **04:52 | 89°**	**C-11 HD: HyperStar v4** 
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: **01:17 – 05:00** Transit: **04:52 | 89°**	**C-11 HD: Focal Reducer** 
Flaming Star Nebula (IC 405) Config: |C11-HD|ZWO6200MC| Type: **Bright Nebula** Peak: Constellation: **Auriga** Coordinates: **05hr 16' 37"** **34° 23' 47"** Close Star: SAO-77168 (Elnath) Catalog Objects: IC 405 Imaging Window: **01:17 – 05:00** Transit: **04:52 | 89°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – October 02, 2024

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: **01:23 – 05:00** Transit: **04:57 | 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: **01:23 – 05:00** Transit: **04:57 | 90°**	**C-11 HD: Primary Focus** 
M-79 (NGC-1904) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Peak: Constellation: **Lepus** Coordinates: **05hr 24' 11"** **-24° 31' 25"** Close Star: SAO-170457 Catalog Objects: M 79 Imaging Window: ***02:53 – 05:00** Transit: **04:59 | 32°**	**C-11 HD: Primary Focus** 

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Page

Prospective Imaging Objects – October 02, 2024

Imaging Summary October 02, 2024

Astronomical Dusk = 07:32 Astronomical Dawn = 05:00

HyperStar: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Nebula	Nebula	B-144	07:32 – 11:17	07:34	02	Cygnus: Fish on the Platter Region
HyperStar	Nebula	Nebula	IC-1318 A & B	07:32 – 11:42	07:53	06	Comp2! Cygnus: Gama Cygni Nebula
HyperStar	Nebula	Nebula	IC-1318A	07:32 – 11:42	07:53	06	Cygnus: Bright Nebula Region of Interest
HyperStar	Nebula	Nebula	IC-1318B	07:32 – 11:52	08:04	08	Cygnus: Bright Nebula Region of Interest
HyperStar	Nebula	Nebula	IC-5070	07:32 – 12:18	08:27	10	Comp2!Cygnus: Pelican & N. American Nebula
HyperStar	Nebula	Nebula	IC-5070	07:32 – 12:18	08:27	10	Cygnus: Pelican & N. American Nebula
HyperStar	Nebula	DN	LDN-904	07:32 – 12:16	08:29	11	Cygnus: Northern Coal Sack
HyperStar	Nebula	Nebula	NGC-6960	07:32 - 12:06	08:29	11	Comp2! Cygnus: Veil Nebula
HyperStar	Nebula	Nebula	NGC-6960	07:32 - 12:06	08:29	11	Cygnus: Veil Nebula
HyperStar	Nebula	Nebula	IC-1396	07:32 – 01:06	09:15	17	Cepheus: Elephant Trunk
HyperStar	Nebula	DN, BN	B-168	07:32 – 01:22	09:29	20	Cygnus: Dark Cocoon
HyperStar	Nebula	Nebula	SH2-132	07:32 – 01:47	09:55	22	Cepheus: SH2-132
HyperStar	Nebula	Nebula	SH2-155	07:32 – 02:16	10:33	25	Cepheus: Cave Nebula
HyperStar	Nebula	Nebula	SH2-157	07:32 – 02:40	10:52	26	Cassiopeia: Lobster Claw and Bubble Nebula
HyperStar	Nebula	Nebula	LBN 534	07:32 – 02:59	1:05	29	Andromeda: Blue Match Nebula
HyperStar	Nebula	Nebula	NGC-7822	08:15 – 03:05	11:37	29	Comp2! Cepheus: NGC-7822 region
HyperStar	Nebula	Nebula	NGC-7822	08:15 – 03:05	11:37	30	Cepheus CED-214
HyperStar	Nebula	Nebula	SH2-185	08:55 – 04:22	12:35	37	Cassiopeia: Gamma Cassiopeiae Nebula
HyperStar	Nebula	Neb, OC	NGC-457	11:06 – 04:38	02:49	38	Cassiopeia: Open Cluster and Nebula
HyperStar	Nebula	Nebula	IC-1848	10:46 – 05:00	02:27	43	Comp4! Cassiopeia: Heart & Soul Nebula
HyperStar	Nebula	Nebula	IC-1805	10:29 – 05:00	02:08	43	Cassiopeia: Heart Nebula
HyperStar	Nebula	Nebula	IC-1848	10:46 – 05:00	02:27	46	Cassiopeia: Soul Nebula
HyperStar	Nebula	Nebula	NGC-1499	12:01 – 05:00	03:38	49	Perseus: California Nebula
HyperStar	Nebula	Nebula	IC-405	01:17 – 05:00	04:52	53	Auriga: Flaming Star Nebula

Prospective Imaging Objects – October 02, 2024

Imaging Summary October 02, 2024

Astronomical Dusk = 07:32 Astronomical Dawn = 05:00

HyperStar: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Broad Spectrum	DN	B-168	07:32 – 01:22	09:29	22	Cepheus: Wolf Cave
HyperStar	Broad Spectrum	Galaxies	NGC-147	08:22 – 04:02	12:09	31	Cassiopeia: Galaxy Pair
HyperStar	Broad Spectrum	Galaxy	M-31	10:30 – 04:38	12:18	33	Andromeda: Andromeda Galaxy
HyperStar	Broad Spectrum	Gal, GC	NGC-288	*10:26-02:25	12:23	35	Sculptor: NGC-288 & NGC-253
HyperStar	Broad Spectrum	Galaxy	M-33	09:39 -04:46	01:09	40	Triangulum: Triangulum Galaxy
HyperStar	Broad Spectrum	OC	NGC-869	10:13 – 05:00	01:58	42	Perseus: Hand chi Persei
HyperStar	Broad Spectrum	OC, BN	M-45	12:03 – 05:00	03:21	48	Taurus: Pleiades
HyperStar	Broad Spectrum	OC	Mel-25	01:02 – 05:00	04:05	50	Taurus: Hyades
HyperStar	Broad Spectrum	DN	IC-2118	*01:37-05:00	04:37	51	Eridanus: Witch Head Nebula
HyperStar	Broad Spectrum	DN	NGC-1788	02:55 – 05:00	04:42	52	Orion: Foxface Nebula

Prospective Imaging Objects – October 02, 2024

Imaging Summary October 02, 2024

Astronomical Dusk = 07:32 Astronomical Dawn = 05:00

Focal Reducer: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Nebula	Nebula	SH2-101	07:34 – 11:17	07:34	03	Cygnus: Tulip Nebula
Focal Reducer	Nebula	Nebula	IC-1318 R1	07:32 – 11:51	08:01	07	Cygnus: IC-1318 Region of Interest
Focal Reducer	Nebula	Nebula	IC-1318B	07:32 – 11:52	08:04	08	Cygnus: IC-1318B Region of Interest
Focal Reducer	Nebula	Nebula	NGC-6960	07:32 – 12:06	08:29	12	Comp2! Cygnus: Witch's Broom
Focal Reducer	Nebula	Nebula	NGC-6960B	07:32 – 12:06	08:29	12	Cygnus: Pickering's Triangular Wisp
Focal Reducer	Nebula	Nebula	NGC-6992	07:32 – 12:10	08:32	13	Comp2! Cygnus: Network Nebula
Focal Reducer	Nebula	Nebula	IC-1396-1	07:32 – 01:06	09:15	18	Cepheus: Elephant Trunk ROI
Focal Reducer	Nebula	Nebula	IC-1396-2	07:32 – 01:06	09:15	18	Cepheus: Elephant Trunk ROI
Focal Reducer	Nebula	Nebula	IC-5146	07:32 – 01:22	09:29	20	Cygnus: Cocoon Nebula
Focal Reducer	Nebula	Nebula	SH2-132	07:32 – 01:47	09:55	23	Cepheus: Bright Nebula
Focal Reducer	Nebula	Nebula	SH2-142	07:32 – 02:14	10:23	24	Cepheus: Wizard Nebula
Focal Reducer	Nebula	Nebula	SH2-155	07:32 – 02:16	10:33	25	Cepheus: Cave Nebula
Focal Reducer	Nebula	Nebula	SH2-157	07:32 – 02:40	10:52	27	Cassiopeia: Lobster Claw
Focal Reducer	Nebula	Nebula	NGC-7822	08:15 – 03:05	11:37	30	Cepheus: NGC 7822 (CED-214)
Focal Reducer	Nebula	Neb, Gx	NGC-246	*09:37-03:10	12:23	34	Cetus: Planetary and two Galaxies
Focal Reducer	Nebula	Nebula	NGC-281	08:43 – 04:20	12:28	36	Cassiopeia: Pack Man Nebula
Focal Reducer	Nebula	Nebula	IC-1795	10:23 – 05:00	02:01	43	Cassiopeia: Fish Head Nebula
Focal Reducer	Nebula	Nebula	IC-1805	10:29 – 05:00	02:08	44	Cassiopeia: Heart Nebula
Focal Reducer	Nebula	Nebula	IC-405	01:17 – 05:00	04:52	53	Auriga: Flaming Star Nebula
Focal Reducer	Nebula	Nebula	IC-410	01:23 – 05:00	04:57	54	Auriga: Tadpoles

Prospective Imaging Objects – October 02, 2024

Imaging Summary October 02, 2024

Astronomical Dusk = 07:32 Astronomical Dawn = 05:00

Focal Reducer: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Broad Spectrum	RN	NGC-7023	07:32 – 12:02	08:38	14	Cepheus: Iris Nebula
Focal Reducer	Broad Spectrum	OC	M-39	07:32 – 01:00	09:08	16	Cygnus: Open Cluster NGC-7092
Focal Reducer	Broad Spectrum	DN	LDN-1235	07:32 – 12:36	09:51	21	Cepheus: Dark Shark
Focal Reducer	Broad Spectrum	DN	B-168	07:32 – 01:22	09:29	22	Rot90 Cepheus: Wolf's Cave
Focal Reducer	Broad Spectrum	Galaxies	NGC7317	07:32 – 01:53	10:12	23	Rot 115 Pegasus: Stephan's Quintent & NGC-7331
Focal Reducer	Borad Spectrum	Galaxies	NGC-7619	08:17 – 01:42	10:56	27	Pegasus: Pegasus Cluster
Focal Reducer	Broad Spectrum	Galaxies	NGC-147	08:22 – 04:02	12:09	32	Cassiopeia: Galaxy Pair NGC-147 & NGC 185
Focal Reducer	Broad Spectrum	OC	NGC-188	*07:32-05:00	12:23	36	Cepheus: Open Cluster NGC-188
Focal Reducer	Broad Spectrum	Galaxy	M-33	09:39 – 04:46	01:09	40	Rot90 Triangulum: Triangulum Galaxy
Focal Reducer	Broad Spectrum	Galaxies	M-77	12:10 – 04:31	02:17	44	Cetus: Galaxies M-77 & NGC-1055
Focal Reducer	Broad Spectrum	DN, BN	NGC-1788	02:55 – 05:00	04:42	52	Orion: Foxface Nebula

Prospective Imaging Objects – October 02, 2024

Imaging Summary October 02, 2024

Astronomical Dusk = 07:32 Astronomical Dawn = 05:00

Primary Focus: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	PN	NGC-6842	07:32 – 11:05	07:31	02	Vulpecula: Sm-Med Planetary Nebula
Primary Focus	Nebula	PN	M-27	07:32 – 10:58	07:36	02	Vulpecula: Dumbbell Nebula
Primary Focus	Nebula	Nebula	SH2-101	07:32 – 11:17	07:34	03	Cygnus: Tulip Nebula
Primary Focus	Nebula	PN	NGC-6852	07:32 – 09:56	07:37	03	Aquila: Small Planetary Nebula
Primary Focus	Nebula	Nebula	NGC-6888	07:32 – 11:39	07:50	04	Cygnus: Crescent Nebula
Primary Focus	Nebula	Nebula	DWB-111	07:32 – 11:39	07:50	04	Cygnus: Propeller Nebula
Primary Focus	Nebula	PN	NGC-6891	07:32 – 10:49	07:51	05	Delphinus: Small Planetary Nebula
Primary Focus	Nebula	PN	NGC-6894	07:32 – 11:29	07:53	05	Cygnus: Little Ring Nebula (Sm-Med)
Primary Focus	Nebula	PN	IC-4997	07:32 – 11:05	07:56	05	Sagitta: Small PN
Primary Focus	Nebula	PN	NGC-6905	07:32 – 11:15	07:59	07	Delphinus: Blue Flash Nebula
Primary Focus	Nebula	BN	IC-1318-1	07:32 – 11:51	08:01	08	Cygnus: Region of interest in IC-1318
Primary Focus	Nebula	BN	IC-1318B	07:32 – 11:52	08:04	09	Cygnus: Region of interest in IC-1318B
Primary Focus	Nebula	PN	NGC-7008	07:32 – 12:29	08:37	14	Cygnus: Fetus Nebula
Primary Focus	Nebula	PN	NGC-7009	*07:32-11:30	08:40	15	Aquarius: Saturn Nebula
Primary Focus	Nebula	PN	NGC-7026	07:32 – 12:35	08:42	15	Cygnus: Small PN
Primary Focus	Nebula	PN	NGC-7027	07:32 – 12:33	08:43	15	Cygnus: Small PN
Primary Focus	Nebula	PN	NGC-7048	07:32 – 12:42	08:50	16	Cygnus: Med PN
Primary Focus	Nebula	PN	NGC-7094	07:32 – 12:11	09:13	17	Pegasus: Med PN
Primary Focus	Nebula	DN	IC-1396-1	07:32 – 01:06	09:15	19	Cepheus: Elephant Trunk ROI
Primary Focus	Nebula	BN	IC-1396-2	07:32 – 01:06	09:15	19	Cepheus: Elephant Trunk RIO
Primary Focus	Nebula	BN	IC-1396-3	07:32 – 01:06	09:15	19	Cepheus: Elephant Trunk RIO
Primary Focus	Nebula	PN	NGC-7139	07:32 – 01:02	09:22	20	Cepheus: Med/Lrg Planetary
Primary Focus	Nebula	BN	IC-5146	07:32 – 01:22	09:29	21	Cygnus: Cocoon Nebula

Prospective Imaging Objects – October 02, 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	PN	NGC-7293	*08:15-11:52	10:06	21	Aquarius: Helix Nebula
Primary Focus	Nebula	Nebula	SH2-132	07:32 – 01:47	09:55	23	Cepheus: Bright Nebula
Primary Focus	Nebula	Nebula	SH2-142	07:32 – 02:14	10:23	25	Cepheus: Wizard Nebula
Primary Focus	Nebula	Nebula	SH2-155	07:32 – 02:16	10:33	26	Cepheus: Cave Nebula
Primary Focus	Nebula	Nebula	NGC-7635	07:32 – 02:42	10:57	27	Cepheus: Bubble Nebula
Primary Focus	Nebula	Nebula	NGC-7662	07:32 – 02:52	11:02	28	Andromeda: Blue Snowball
Primary Focus	Nebula	Nebula	NGC-7822	08:15 – 03:05	11:37	30	Cepheus: Emission Nebula Ced 214
Primary Focus	Nebula	PN	NGC-40	09:00 – 02:44	11:49	31	Cepheus: Bow-Tie Nebula
Primary Focus	Nebula	PN	NGC-246	*09:37-03:10	12:23	34	Cetus: Skull Nebula
Primary Focus	Nebula	Nebula	SH2-185	08:55 – 04:22	12:35	37	Cassiopeia: Gamma Cassiopeiae Nebula
Primary Focus	Nebula	Nebula	SH2-188	09:22 – 04:56	01:06	39	Cassiopeia: Firefox Nebula
Primary Focus	Nebula	PN	M-76	09:31 – 05:00	01:18	41	Perseus: Little Dumbbell Nebula
Primary Focus	Nebula	Nebula	IC-1805	10:29 – 05:00	02:08	44	Cassiopeia: Heart Nebula Core
Primary Focus	Nebula	Nebula	IC-1848	10:46 – 05:00	02:27	46	Cassiopeia: Soul Nebula
Primary Focus	Nebula	Nebula	IC-1848	10:46 – 05:00	02:27	46	Cassiopeia: Soul Nebula Core
Primary Focus	Nebula	Nebula	NGC-1333	11:33 – 05:00	03:04	47	Perseus: Bright Nebula
Primary Focus	Nebula	Nebula	NGC-1360	*01:14-04:59	03:08	47	Fornax: Egg shaped Nebula
Primary Focus	Nebula	Nebula	IC-348	11:47 – 05:00	03:20	47	Perseus: Bright Nebula
Primary Focus	Nebula	Nebula	M-45	12:03 – 05:00	03:21	48	Taurus: Pleiades
Primary Focus	Nebula	Nebula	NGC-1501	12:02 – 05:00	03:42	49	Camelopardalis: Oyster Nebula
Primary Focus	Nebula	Nebula	NGC-1514	12:14 – 05:00	03:44	49	Taurus: Crystal Ball Nebula
Primary Focus	Nebula	Nebula	NGC-1535	*01:11-05:00	03:49	50	Eridanus: Cleopatra’s Eye
Primary Focus	Nebula	Nebula	NGC-1555	12:48 – 05:00	03:57	50	Taurus: Hind’s Variable Nebula
Primary Focus	Nebula	Nebula	NGC-1579	12:29 – 05:00	04:05	51	Perseus: Trifid of the North
Primary Focus	Nebula	Nebula	IC-2118	*01:37-05:00	04:37	51	Eridanus: Witch Head Nebula
Primary Focus	Nebula	Nebula	NGC-1788	02:55 – 05:00	04:42	52	Orion: Foxface Nebula
Primary Focus	Nebula	Nebula	IC-405	01:17 – 05:00	04:52	53	Auriga: Flaming Star Nebula
Primary Focus	Nebula	Nebula	IC-410	01:23 – 05:00	04:57	54	Auriga: Tadpoles

Prospective Imaging Objects – October 02, 2024

Imaging Summary October 02, 2024

Astronomical Dusk = 07:32 Astronomical Dawn = 05:00

Primary Focus: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	GC	M-75	*07:32-09:26	07:42	04	Sagittarius: Med Globular
Primary Focus	Broad Spectrum	OC	M-29	07:32 – 11:46	08:00	07	Cygnus: Open Cluster in Cygnus
Primary Focus	Broad Spectrum	Galaxy	NGC-6946	07:32 – 11:58	08:11	09	Cepheus: Fireworks Galaxy (Large Face On)
Primary Focus	Broad Spectrum	GC	M-72	*07:32-11:11	08:30	12	Aquarius: Medium Globular
Primary Focus	Broad Spectrum	OC	M-73	*07:32-11:18	08:35	13	Aquarius: Open Cluster NGC-6994
Primary Focus	Broad Spectrum	RN	NGC-7023	07:32 – 12:02	08:38	14	Cepheus: Iris Nebula
Primary Focus	Broad Spectrum	GC	M-15	07:32 – 12:03	09:06	16	Pegasus: Pegasus Cluster
Primary Focus	Broad Spectrum	GC	M-2	07:32 – 11:16	09:09	17	Aquarius: Large Globular
Primary Focus	Broad Spectrum	GC	M-30	*07:32-11:33	09:16	19	Capricornus: Med Globular
Primary Focus	Broad Spectrum	Galaxies	NGC-7317	07:32 – 01:53	10:12	24	Pegasus: Stephan's Quintet
Primary Focus	Broad Spectrum	Galaxies	NGC-7331	07:32 – 01:55	10:13	24	Pegasus: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	NGC-7479	07:49 – 01:38	10:41	26	Pegasus: Face on Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-7619	08:17 – 01:42	10:56	28	Pegasus: Pegasus Cluster
Primary Focus	Broad Spectrum	OC	M-52	07:32 – 02:46	11:00	28	Cassiopeia: Open Cluster NGC-7654
Primary Focus	Broad Spectrum	OC	NGC-7789	07:48 – 03:25	11:33	29	Cassiopeia: Caroline's Rose
Primary Focus	Broad Spectrum	Galaxies	NGC 67-72	08:24 – 03:30	11:54	31	Andromeda: Andromeda Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	NGC-147	08:22 – 04:02	12:09	32	Cassiopeia: Dwarf Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-185	08:27 – 04:08	12:14	32	Cassiopeia: Dwarf Spheroidal Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-110	08:33 – 04:06	12:16	33	Andromeda: Elliptical Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-32	08:36 – 04:07	12:18	33	Andromeda: Companion to M-31
Primary Focus	Broad Spectrum	Galaxy	NGC-247	*09:56-02:55	12:23	35	Cetus: Needle's Eye Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-253	*10:26-02:25	12:23	35	Sculptor: Sculptor Galaxy
Primary Focus	Broad Spectrum	Globular	NGC-288	*10:45-02:14	12:28	36	Sculptor: Med Globular Cluster
Primary Focus	Broad Spectrum	Galaxy	IC-1613	10:25 – 03:02	12:40	37	Cetus: Irregular Dwarf Galaxy

Prospective Imaging Objects – October 02, 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	NGC-404	09:11 – 04:45	12:55	38	Andromeda: Mirachs Ghost
Primary Focus	Broad Spectrum	OC	NGC-457	09:11 – 04:45	12:55	38	Cassiopeia: Owl Cluster
Primary Focus	Broad Spectrum	Galaxies	Arp-133	11:03 – 03:06	01:01	39	Cetus: Minkowski's Object
Primary Focus	Broad Spectrum	OC	M-103	09:28 – 04:56	01:09	39	Cassiopeia: Open Cluster NGC-581
Primary Focus	Broad Spectrum	Galaxy	M-33	09:39 – 04:46	01:09	40	Triangulum: Triangulum Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-74	10:12 – 04:19	01:12	41	Pisces: Med Face On Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-772	10:26 – 04:50	01:35	41	Aries: Nautilus Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-891	10:14 - 05:00	01:58	42	Andromeda: Edge On Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-925	10:28 – 05:00	02:03	42	Triangulum: Face on Galaxy PGC-9332
Primary Focus	Broad Spectrum	Galaxy	NGC-1055	12:10 – 04:31	02:17	45	Cetus: Edge On galaxy
Primary Focus	Broad Spectrum	OC	M-34	10:34 – 05:00	02:17	45	Perseus: Open Cluster NGC-1039
Primary Focus	Broad Spectrum	Galaxy	M-77	12:13 – 04:30	02:18	45	Cetus: Galaxy NGC-1068
Primary Focus	Broad Spectrum	Galaxies	Abell-426	11:12 – 05:00	02:55	46	Perseus: Perseus Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxy	IC-342	11:47 – 05:00	03:20	48	Camelopardalis: Large Face-On
Primary Focus	Broad Spectrum	Globular	M-79	*02:53-05:00	04:59	54	Lepus: Med Globular

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Imaging Summary October 02, 2024

Astronomical Dusk = 07:32 Astronomical Dawn = 05:00

Primary Prospects

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	HyperStar	Nebula	Nebula	IC-1318A	07:32 – 11:42	07:53	06	Cygnus: Cygnus ROI
	HyperStar	Nebula	Nebula	IC-1318B	07:32 – 11:52	08:04	08	Cygnus: Cygnus ROI
	HyperStar	Nebula	Nebula	NGC-5960	07:32 – 12:06	08:29	11	Comp2! Cygnus: Veil Nebula
	HyperStar	Nebula	BN & DN	B-168	07:32 – 01:22	09:29	20	Cygnus: Dark Cocoon
	HyperStar	Nebula	Nebula	SH2-132	07:32 – 01:47	09:55	22	Cepheus: Bright Nebula
	HyperStar	Nebula	Nebula	SH2-155	07:32 – 02:59	11:05	29	Andromeda: Blue Match Nebula
	HyperStar	Broadband	Galaxies	NGC-147 & NGC-185	08:22 – 04:02	12:09	31	Cassiopeia: Galaxy Pair
	HyperStar	Broadband	Galaxy	M-33	09:39 – 04:46	01:09	40	Triangulum: Triangulum Galaxy
	HyperStar	Broadband	OC	NGC-869, 884	10:13 – 05:00	01:58	42	Perseus: Hand Chi Persei
	HyperStar	Nebula	Nebula	IC-1848	10:46 – 05:00	02:27	43	Comp4! Cassiopeia: Heart and Soul Nebula
	HyperStar	Broadband	OC	Mel-25	01:02 – 05:00	04:05	50	Taurus: Hayades Cluster
	HyperStar	Nebula	BN, DN	NGC-1788	02:55 – 05:00	04:42	52	Orion: Foxface Nebula
	HyperStar	Nebula						
	HyperStar	Nebula						
	HyperStar	Nebula						
	HyperStar	Nebula						
	Focal Reducer	Nebula	Nebula	SH2-101	07:32 – 11:17			Cygnus: Tulip Nebula
	Focal Reducer	Nebula	Nebula	IC-1318 R1	07:32 – 11:51	08:01	07	Cygnus: ROI
	Focal Reducer	Nebula	Nebula	NGC-6992	07:32 – 12:10	08:32	13	Comp2! Cygnus: Network Nebula
	Focal Reducer	Nebula	RN	NGC-7023	07:32 – 12:02	08:38	14	Cepheus: Iris Nebula
	Focal Reducer	Broadband	OC	M-39	07:32 – 01:00	09:08	16	Cygnus: Open Cluster NGC-7092
	Focal Reducer	Nebula	Nebula	IC-1396	07:32 – 01:06	09:15	18	Cepheus: Elephant Trunk RIO1
	Focal Reducer	Nebula	Nebula	IC-1396	07:32 – 01:06	09:15	18	Cepheus: Elephant Trunk RIO2

Prospective Imaging Objects – October 02, 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Focal Reducer	Nebula	BN & DN	IC-5146	07:32 – 01:22	09:29	20	Cygnus: Cocoon Nebula
	Focal Reducer	Nebula	Nebula	SH2-132	07:32 – 01:47	09:55	23	Cepheus: Bright Nebula
	Focal Reducer	Broadband	Galaxies	NGC7331 et. El.	07:32 – 01:53	10:12	23	Rot! Peg: Stephan's Quintet & NGC7331
	Focal Reducer	Nebula	Nebula	SH2-142	07:32 – 02:14	10:23	24	Cepheus: Wizard Nebula
	Focal Reducer	Nebula	Nebula	SH2-155	07:32 – 02:16	10:33	25	Cepheus: Cave Nebula
	Focal Reducer	Nebula	Nebula	SH2-157	07:342 – 02:40	10:52	27	Cassiopeia: Lobster Claw ROI
	Focal Reducer	Broadband	Galaxies	NGC-7619	08:17 – 01:42	10:56	27	Pegasus: Pegasus Cluster
	Focal Reducer	Nebula	Nebula	NGC-7822	08:15 – 03:05	11:37	30	Cepheus: CED-214
	Focal Reducer	Broadband	OC	NGC-188	*07:32-05:00	12:23	36	Cepheus: Open Cluster
	Focal Reducer	Nebula	BN, DN	NGC-1788	02:55 – 05:00	04:42	52	Orion: Foxface Nebula
	Primary Focus	Nebula	PN	NGC-6842	07:32 – 11:05	07:31	02	Vulpecula: Sm/Med Planetary Nebula
	Primary Focus	Nebula	Nebula	Sh2-101	07:32 – 11:17	07:34	03	Cygnus: Tulip Nebula
	Primary Focus	Broadband	GC	M-75	*07:32-09:26	07:42	04	Sagittarius: Med Globular
	Primary Focus	Nebula	Nebula	NGC-6888	07:32 – 11:39	07:50	04	Cygnus: Crescent Nebula
	Primary Focus	Nebula	Nebula	NGC-6894	07:32 – 11:29	07:53	05	Cygnus: Sm/Med Planetary Nebula
	Primary Focus	Broadband	Galaxy	NGC-6946	07:32 – 11:58	08:11	09	Cepheus: Fireworks Galaxy
	Primary Focus	Broadband	Globular	M-72	*07:32-11:11	08:30	12	Aquarius: Med Globular NGC-6981
	Primary Focus	Nebula	PN	NGC-7009	*07:32-11:30	08:40	15	Aquarius: Saturn Nebula
	Primary Focus	Nebula	PN	NGC-7027	07:32 – 12:33	08:43	15	Cygnus: Small PN
	Primary Focus	Nebula	PN	NGC-7048	07:32 – 12:42	08:50	16	Cygnus: Sm/med PN
	Primary Focus	Broadband	Globular	M-2	07:32 – 11:16	09:09	17	Aquarius: Large GC NGC-7089
	Primary Focus	Nebula	PN	NGC-7094	07:32 – 12:11	09:13	17	Pegasus: sm/med PN
	Primary Focus	Nebula	DN	IC-1396	07:32 – 01:06	09:15	18	Cepheus: Dark Nebula
	Primary Focus	Nebula	Nebula	IC-1396	07:32 – 01:06	09:15	18	Cepheus: Elephant Trunk RIO 1
	Primary Focus	Nebula	Nebula	IC-1396	07:32 – 01:06	09:15	18	Cepheus: Elephant Trunk RIO 2
	Primary Focus	Broadband	Globular	M-30	*07:32-11:33	09:16	19	Capricornus: Med Globular NGC-7099
	Primary Focus	Nebula	Nebula	SH2-132	07:32 – 01:47	09:55	23	Cepheus: Bright Nebula

Prospective Imaging Objects – October 02, 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Primary Focus	Broadband	Galaxies	NGC-7317	07:32 – 01:53	10:12	24	Pegasus: Stephan's Quintet
	Primary Focus	Broadband	Galaxies	NGC-7619	08:17 – 01:42	10:56	28	Pegasus: Pegasus Cluster
	Primary Focus	Nebula	PN	NGC-7662	07:32 – 02:52	11:02	28	Andromeda: Blue Snowball
	Primary Focus	Broadband	OC	NGC-7789	07:48 – 03:25	11:33	29	Cassiopeia: Caroline's Rose
	Primary Focus	Nebula	PN	NGC-40	09:00 – 02:44	11:49	31	Cepheus: Bow-Tie Nebula
	Primary Focus	Broadband	Galaxies	NGC 67-72	08:24 – 03:30	11:54	31	Andromeda: Andromeda Galaxy Group
	Primary Focus	Broadband	Galaxy	M-32	08:36 – 04:07	12:18	33	Andromeda: Elliptical Galaxy
	Primary Focus	Nebula	PN	NGC-246	*09:37-03:10	12:23	34	Cetus: Skull Nebula
	Primary Focus	Broadband	Globular	NGC-288	*10:45-02:14	12:28	36	Sculptor: Med Globular Cluster
	Primary Focus	Nebula	Nebula	SH2-185	08:55 – 04:22	12:35	37	Cassiopeia: Gamma Cassiopeiae Nebula
	Primary Focus	Broadband	Galaxy	IC-1613	10:25 – 03:02	12:40	37	Cetus: Irregular Dwarf Galaxy
	Primary Focus	Broadband	Galaxy	NGC-404	09:11 – 04:45	12:55	38	Andromeda: Mirachs Ghost
	Primary Focus	Broadband	Galaxies	Arp-133	11:03 – 03:06	01:01	39	Cetus: Minkowski's Object
	Primary Focus	Nebula	Nebula	SH2-188	09:22 – 04:56	01:06	39	Cassiopeia: Firefox Nebula
	Primary Focus	Broadband	OC	M-103	09:28 – 04:56	01:09	39	Cassiopeia: Open Cluster
	Primary Focus	Broadband	Galaxy	NGC-772	10:26 – 04:50	01:35	41	Aries: Nautilus Galaxy
	Primary Focus	Broadband	Galaxy	NGC-1055	12:10 – 04:31	02:17	45	Cetus: Edge On Galaxy
	Primary Focus	Broadband	OC	M-34	10:34 – 05:00	02:17	45	Perseus: Open Cluster NGC-1039
	Primary Focus	Broadband	Galaxy	M-77	12:13 – 04:30	02:18	45	Cetus: Galaxy
	Primary Focus	Broadband	Galaxies	Abell-426	11:12 – 05:00	02:55	46	Perseus: Perseus Galaxy Cluster
	Primary Focus	Nebula	BN	NGC-1333	11:33 – 05:00	03:04	47	Perseus: Bright Nebula
	Primary Focus	Nebula	PN	NGC-1360	*01:14-04:59	03:08	47	Fornax: Blue Egg Nebula
	Primary Focus	Nebula	BN	IC-348	11:47 – 05:00	03:20	47	Perseus: Bright Nebula in Starfield
	Primary Focus	Broadband	Galaxy	IC-342	11:47 – 05:00	03:20	48	Camelopardalis: Large Face-On Galaxy
	Primary Focus	Nebula	PN	NGC-1555	12:48 – 05:00	03:57	50	Taurus: Hind's Variable Nebula
	Primary Focus	Nebula	BN	NGC-1579	12:29 – 05:00	04:05	51	Perseus: Trifid of the North
	Primary Focus	Broadband	DN	IC-2118	*01:37-05:00	04:37	51	Eridanus: Witch Head Nebula
	Primary Focus	Broadband	GC	M-79	*02:53-05:00	04:59	54	Lepus: Med Globular

Prospective Imaging Objects – October 02, 2024

Imaging Summary October 02, 2024

Astronomical Dusk = 07:32 Astronomical Dawn = 05:00

Imaging Plans

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

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