Prospective Imaging Objects – April 08 2024

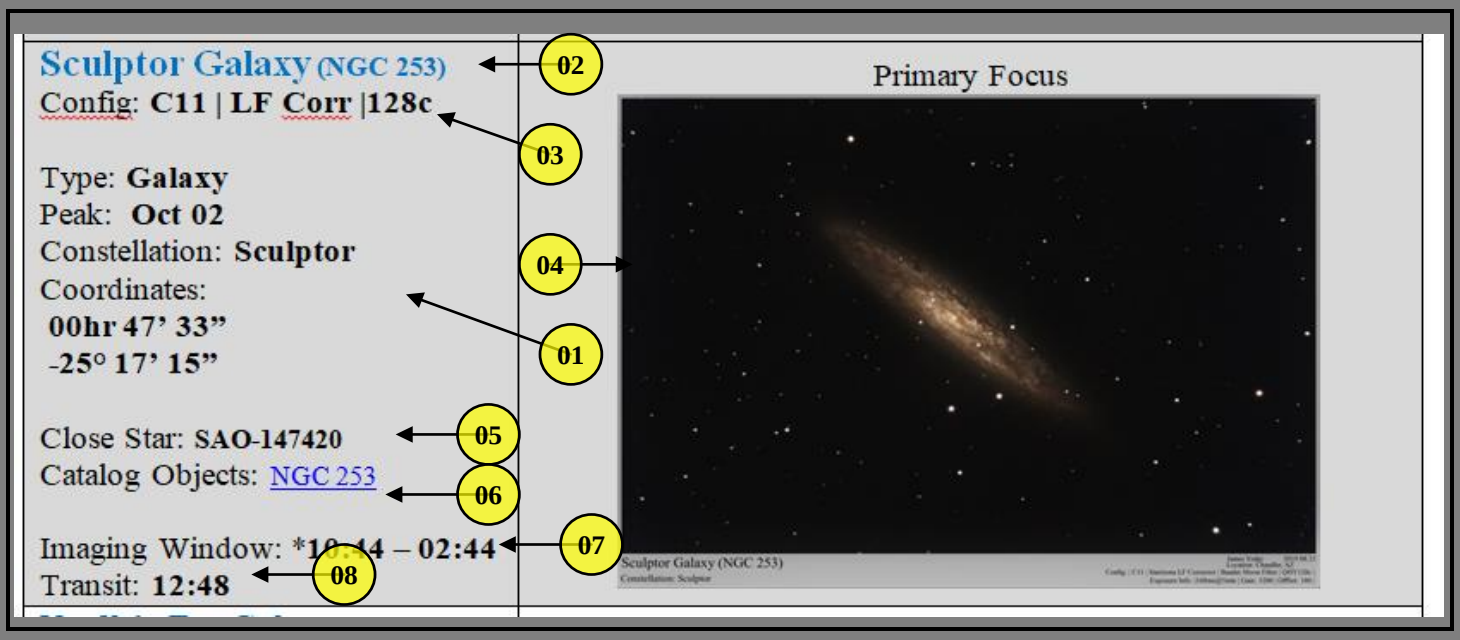
Astronomical Data

Sunrise	Sunset	Astronomical Dusk	Astronomical Dawn	Imaging	New Moon
06:05am	06:53 pm	08:19 pm	04:39 am	08:30	April 08

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.

Prospective Imaging Objects – April 08 2024

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.

Helix Galaxy (NGC-2685) Config: |C11HD|ZWO6200MC| Type: **Galaxy** Constellation: **Ursa Major** Coordinates: **08h 55’ 14”** **58° 42’ 24”** Close Star: **SAO-27876** (Merak) Catalog Objects: NGC-2685 Imaging Window: **08:39 – 12:05** Transit: **08:46 | 65°**	**C-11 HD: Primary Focus** 
NGC-2903 Config: |C11HD|ZWO6200MC| Type: **Galaxy** Constellation: **Leo** Coordinates: **09h 32’ 08.949”** **21° 30’ 37.772”** Close Star: **SAO-98967** (Regulus) Catalog Objects: NGC-2903 Imaging Window: **08:39 – 12:05** Transit: **08:46 | 78°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – April 08 2024

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

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

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

Imaging Window: **08:39 – 12:26**
Transit: **09:09 | 54°**

C-11 HD: HyperStar v4

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

Type: **Galaxy Pair**
Constellation: **Ursa Major**
Coordinates:
RA: **09hr 55' 40"**DEC: **69° 18' 39"**
90° Rotation

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

Imaging Window: **08:39 – 12:26**
Transit: **09:09 | 54°**

C-11 HD: Focal Reducer

Bode's Nebula (M-81)
Config: |C11HD|ZWO6200MC|

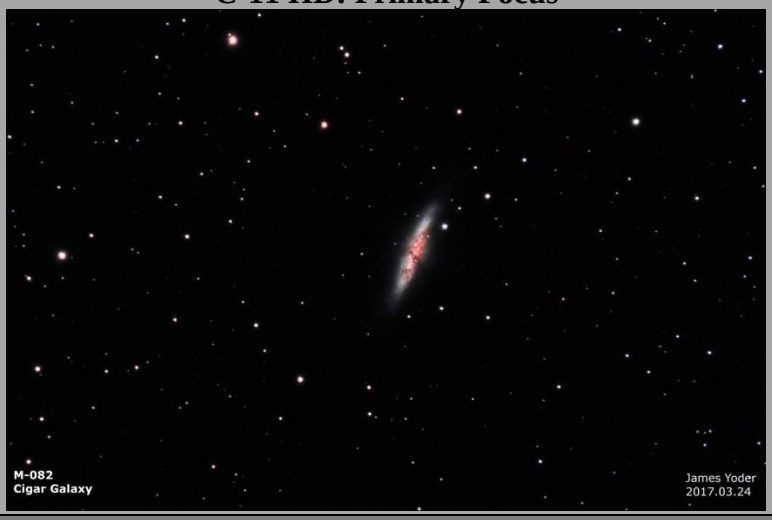
Type: **Galaxy**
Constellation: **Ursa Major**
Coordinates:
09h 55' 24.184"
69° 05' 18.969"

Close Star: **SAO-15384**
Catalog Objects: M-81/NGC-3031

Imaging Window: **08:39 – 12:29**
Transit: **09:09 | 54°**

C-11 HD: Primary Focus

Prospective Imaging Objects – April 08 2024

Cigar Galaxy (M-82) Config: |C11HD|ZWO6200MC| Type: **Galaxy** Constellation: **Ursa Major** Coordinates: **09h 55’ 57.451”** **69° 42’ 37.646”** Close Star: **SAO-15384** Catalog Objects: M-82/NGC-3034 Imaging Window: **08:39 – 12:26** Transit: **09:09 | 54°**	**C-11 HD: Primary Focus** 
Spindle Galaxy (NGC-3115) Config: |C11HD|ZWO6200MC| Type: **Galaxy** Constellation: **Sextans** Coordinates: **10h 05’ 21”** **-07° 47’ 09”** Close Star: **SAO-98967** (Regulus) Catalog Objects: NGC-3115 Imaging Window: ***08:39 – 12:27** Transit: **09:19 | 49°**	**C-11 HD: Primary Focus** 
Powder keg Galaxy (UGC-5470) Config: |C11HD|ZWO6200MC| Type: **Galaxy** Constellation: **Leo** Coordinates: **10h 08’ 27”** **12° 19’ 49”** Close Star: **SAO-98967** (Regulus) Catalog Objects: UGC-5470 Imaging Window: **08:39 – 12:19** Transit: **09:22 | 69°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – April 08 2024

NGC-3166 & NGC-3169

Config: |C11HD|ZWO6200MC|

Type: **Galaxy pair**

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

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

Imaging Window: **08:39 – 11:54**
Transit: **09:27 | 60°**

C-11 HD: Primary Focus

Hickson 44 (NGC-3190, 3189,)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy Group**

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

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

Imaging Window: **08:39 – 12:52**
Transit: **09:31 | 79°**

C-11 HD: Primary Focus

NGC-3184

Config: |C11HD|ZWO6200MC|

Type: **Face-on Spiral Galaxy**

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

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

Imaging Window: **08:39 – 01:21**
Transit: **09:32 | 82°**

C-11 HD: Primary Focus

Prospective Imaging Objects – April 08 2024

NGC-3227 & NGC-3226

Config: |C11HD|ZWO6200MC|

Type: **Interacting Galaxies**

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

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

Imaging Window: **08:39 – 12:53**
Transit: **09:37 | 77°**

C-11 HD: Primary Focus

Ghost of Jupiter (NGC-3242)

Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

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

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

Imaging Window: ***08:39 – 11:43**
Transit: **09:38 | 38°**

C-11 HD: Primary Focus

Galaxy Group 2574

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

Type: **Galaxy Group**

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

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

Imaging Window: **08:39 – 01:05**
Transit: **09:42 | 55°**

C-11 HD: HyperStar v4

Prospective Imaging Objects – April 08 2024

Coddington's Nebula (IC-2574)
Config: |C11HD|ZWO6200MC|

Type: **Barred Spiral Galaxy**

Constellation: **Leo**
Coordinates:
10h 28' 40"
68° 26' 14"

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

Imaging Window: **08:39 – 01:05**
Transit: **09:42 | 55°**

C-11 HD: Primary Focus

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

Type: **Galaxy Grouping**

Constellation: **Leo**
Coordinates:
10h 47' 23"
12° 23' 59"

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

Imaging Window: **08:59 – 12:56**
Transit: **10:00 | 69°**

C-11 HD: HyperStar v4

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

Type: **Galaxy Pair**

Constellation: **Leo**
Coordinates:
10h 45' 20"
11° 44' 30"

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

Imaging Window: **08:39 – 12:53**
Transit: **09:57 | 68°**

C-11 HD: Focal Reducer

Prospective Imaging Objects – April 08 2024

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

Type: **Trio of Galaxies**

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

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

Imaging Window: **08:39 – 12:59**
Transit: **10:01 | 69°**

C-11 HD: Primary Focus

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

Type: **Galaxy Cluster**

Constellation: **Ursa Major**
Coordinates:
11h 10’ 43”
28° 41’ 41”

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

Imaging Window: **08:39 – 02:17**
Transit: **10:25 | 85°**

C-11 HD: Primary Focus

M-108 & NGC-3587
Config: |C11HD|ZWO6200MC|

Type: **Irregular Galaxy & Planetary Nebula**

Constellation: **Ursa Major**
Coordinates:
11h 12’ 49”
55° 20’ 57”

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

Imaging Window: **08:39 – 02:17**
Transit: **10:25 | 68°**

C-11 HD: HyperStar v4

Prospective Imaging Objects – April 08 2024

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

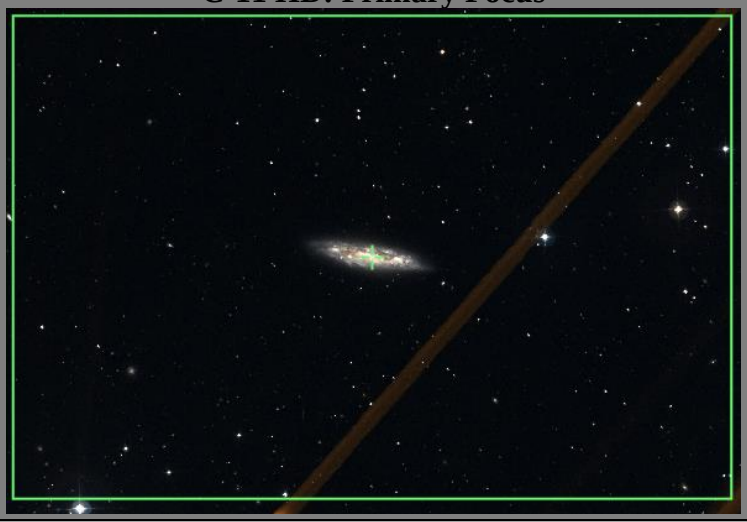
Type: **Irregular Galaxy**

Constellation: **Ursa Major**
Coordinates:
11h 11’ 29”
55° 40’ 22”

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

Imaging Window: **08:39 – 02:17**
Transit: **10:25 | 68°**

C-11 HD: Primary Focus



Owl Nebula (NGC-3587)
Config: |C11HD|ZWO6200MC|
Type: **Planetary Nebula**

Constellation: **Ursa Major**
Coordinates:
11h 14’ 48”
55° 01’ 10”

Close Star: **SAO-27876**
Catalog Objects: M-97/NGC-3587

Imaging Window: **08:39 – 02:20**
Transit: **10:28 | 68°**

C-11 HD: Primary Focus

Owl Nebula (NGC-3587)
Config: |C11HD|Barlow x2|ZWO6200MC|

Type: **Planetary Nebula**
Constellation: **Ursa Major**
Coordinates:
11h 14’ 48”
55° 01’ 10”

Close Star: **SAO-27876**
Catalog Objects: M-97/NGC-3587

Imaging Window: **08:39 – 02:20**
Transit: **10:28 | 68°**

C-11 HD: Primary Focus *x2

Prospective Imaging Objects – April 08 2024

Lio Trio of Galaxies Config: **C11-HD | HS | ZWO6200MC** Type: **Galaxies** Constellation: **Leo** Coordinates: Frame 01 RA: **11hr 19' 57"**DEC: **13° 32' 15"** Frame 02 RA: **11hr 19' 57"**DEC: **13° 04' 57"** Close Star: **SAO-15384** Catalog Objects: NGC-3628, 3623, M-65 Imaging Window: **08:39 – 01:34** Transit: **10:33 | 70°**	**C-11 HD: Focal Reducer** Composite!  Leo Trio of Galaxies (NGC-3628, NGC-3623, NGC-3627) Constellation: Leo the Lion
NGC-3628 Config: |C11HD|ZWO6200MC| Type: **Spiral Galaxy** Constellation: **Leo** Coordinates: **11h 19' 44"** **13° 28' 28"** *NOTE: M-65/ M-66 & NGC-3628 can be combined to create mosaic* Close Star: **SAO-98967** (Regulus) Catalog Objects: NGC-3628, Imaging Window: **08:39 – 01:34** Transit: **10:33 | 70°**	**C-11 HD: Primary Focus**  NGC-3628 Edge-On Galaxy James Yoder 2015.04.19

Prospective Imaging Objects – April 08 2024

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

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

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

Imaging Window: **08:39 – 01:33**
Transit: **10:33 | 70°**

C-11 HD: Primary Focus

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

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

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

Imaging Window: **08:39 – 02:39**
Transit: **10:46 | 70°**

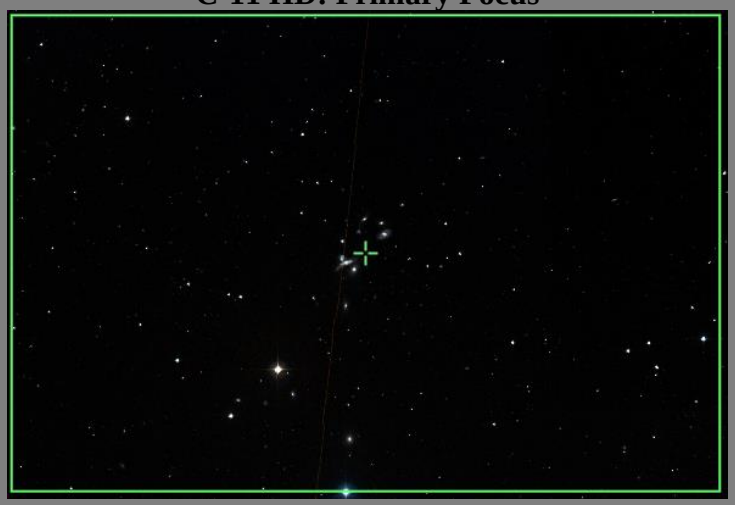
C-11 HD: Primary Focus

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

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

Imaging Window: **08:39 – 02:12**
Transit: **10:51 | 79°**

C-11 HD: Primary Focus



Prospective Imaging Objects – April 08 2024

Abell 1367 (NGC-3861, et el.)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy Cluster**

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

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

Imaging Window: **08:39 – 02:15**
Transit: **10:58 | 77°**

C-11 HD: Primary Focus

Wild’s Triplet (Arp-248)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

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

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

Imaging Window: ***08:39 – 01:56**
Transit: **11:00 | 53°**

C-11 HD: Primary Focus

M-109 (NGC-3992)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

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

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

Imaging Window: **08:39 – 03:04**
Transit: **11:11 | 70°**

C-11 HD: Primary Focus

Prospective Imaging Objects – April 08 2024

NGC-4027 (PGC-37773)
Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

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

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

Imaging Window: ***09:13 – 01:17**
Transit: **11:13 | 37°**

C-11 HD: Primary Focus

Antennae Galaxies (Arp-244)
Config: |C11HD|ZWO6200MC|

Type: **Galaxy Pair**

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

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

Imaging Window: ***09:19 – 01:23**
Transit: **11:15 | 38°**

C-11 HD: Primary Focus

M-98 (NGC-4192)
Config: |C11HD|ZWO6200MC|

Type: **Barred Spiral Galaxy**

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

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

Imaging Window: **08:39 – 02:31**
Transit: **11:27 | 72°**

C-11 HD: Primary Focus

Prospective Imaging Objects – April 08 2024

NGC-4236 (UGC 7306)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

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

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

Imaging Window: **08:39 – 02:48**
Transit: **11:30 | 54°**

C-11 HD: Primary Focus

Silver Needle (NGC-4244)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

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

Close Star: **SAO-99809** (Denebola)
Catalog Objects: NGC-4244/UGC-7322
Imaging Window: **08:39 – 03:16**
Transit: **11:30 | 86°**

C-11 HD: Primary Focus

St. Katherines Wheel (M99/NGC4254)

Config: |C11HD|ZWO6200MC|

Type: **Spiral Galaxy**

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

Close Star: **SAO-99809** (Denebola)
Catalog Objects: M-99/NGC-4254
Imaging Window: **08:39 – 02:35**
Transit: **11:32 | 71°**

C-11 HD: Primary Focus

Prospective Imaging Objects – April 08 2024

Galaxy Group 106

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

Type: **Galaxy Group**

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

Close Star: **SAO-28179** (Phecda)
Catalog Objects: M-106, NGC 4248, 4217, 4232, 4331
Imaging Window: **08:39 – 03:25**
Transit: **11:32 | 76°**

C-11 HD: HyperStar v4

M-106 (NGC-4258)

Config: |C11-HD|FR|ZWO6200MC|

Type: **Galaxy Group**

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

Close Star: **SAO-28179** (Phecda)
Catalog Objects: M-106, NGC 4248, 4217, 4232, 4331
Imaging Window: **08:39 – 03:25**
Transit: **11:32 | 76°**

C-11 HD: Focal Reducer

HII Galaxy (M61/NGC4303)

Config: |C11HD|ZWO6200MC|

Type: **Face-On Spiral Galaxy**

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

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-61/NGC-4303, NGC-4292, NGC-4301
Imaging Window: **09:10 – 02:06**
Transit: **11:35 | 61°**

C-11 HD: Primary Focus

Prospective Imaging Objects – April 08 2024

Winnecke 4(M-40)

Config: |C11HD|ZWO6200MC|

Type: **Star Pair**

Constellation: **Ursa Major**
Coordinates:
12h 21’ 22”
58° 03’ 05”

Close Star: **SAO-28179** (Phecda)
Catalog Objects: M-40, NGC-4290, NGC-4284
Imaging Window: **08:39 – 03:25**
Transit: **11:35 | 65°**

C-11 HD: Primary Focus

M-100(NGC-4303)

Config: |C11HD|ZWO6200MC|

Type: **Face-On Spiral Galaxy**

Constellation: **Coma Berenices**
Coordinates:
12h 22’ 28”
15° 42’ 40”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-100/NGC-4321, NGC-4312, 4328, 4322, UGC-7425, IC-783A,
Imaging Window: **08:39 – 02:43**
Transit: **11:36 | 73°**

C-11 HD: Primary Focus

NGC-4361

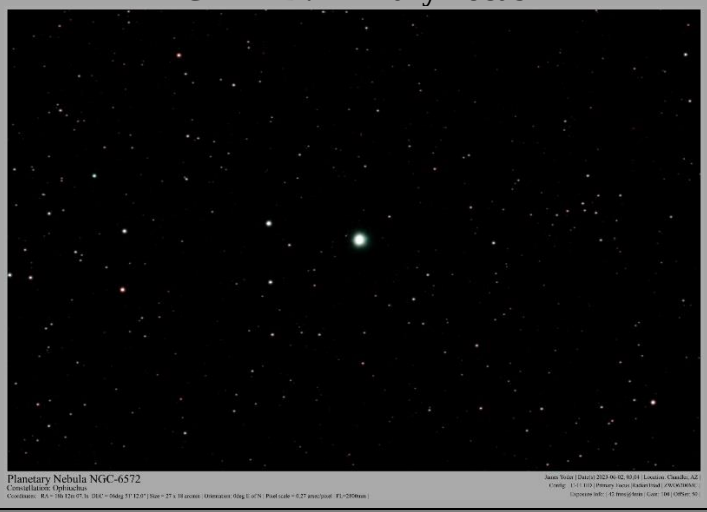
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Corvus**
Coordinates:
12h 24’ 31”
-18° 47’ 03”

Close Star: **SAO-157176** (Gienah Corvi)
Catalog Objects: NGC-4361
Imaging Window: ***09:36 – 01:45**
Transit: **11:37 | 38°**

C-11 HD: Primary Focus



Prospective Imaging Objects – April 08 2024

Markarian Chain(M-84 Et. El.)
Config: **C11-HD | HS | ZWO6200MC**

Type: **Galaxy cluster**

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

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-84/NGC-4374, NGC-4388, 4425, 4402, M-86/NGC4406, 4438, 4435, and more
Imaging Window: **08:45 – 02:37**
Transit: **11:38 | 70°**

C-11 HD: HyperStar v4

Markarian Chain 2
Config: **C11-HD | HS | ZWO6200MC**

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

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-84/NGC-4374, NGC-4388, 4425, 4402, M-86/NGC4406, 4438, 4435, and more

Imaging Window: **08:45 – 02:37**
Transit: **11:38 | 70°**

C-11 HD: HyperStar v4

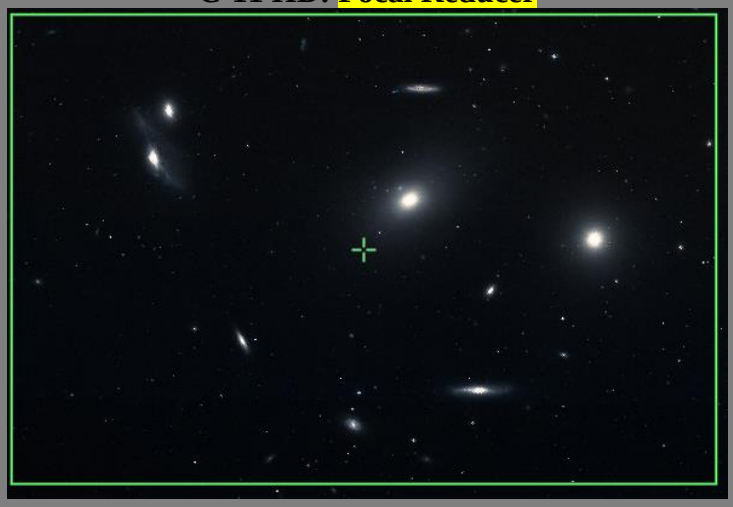
Markarian’s Chain (M-84)
Config: |C11-HD|FR|ZWO6200MC|

Type: **Galaxy cluster**

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

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-84/NGC-4374, NGC-4388, 4425, 4402, M-86/NGC4406, 4438, 4435
Imaging Window: **08:45 – 02:37**
Transit: **11:38 | 70°**

C-11 HD: Focal Reducer



Prospective Imaging Objects – April 08 2024

NGC-4449 (UGC-7592) Config: |C11HD|ZWO6200MC| Type: **Irregular Galaxy** Constellation: **Canes Venatici** Coordinates: **12h 28’ 11”** **44° 05’ 42”** Close Star: **SAO-28553** (Alioth) Catalog Objects: NGC-4449/UGC-7592 Imaging Window: **08:39 – 03:33** Transit: **11:41 | 79°**	**C-11 HD: Primary Focus** 
M-49(NGC-4472) Config: |C11HD|ZWO6200MC| Type: **Elliptical Galaxy** Constellation: **Virgo** Coordinates: **12h 29’ 58”** **07° 59’ 51”** Close Star: **SAO-100944** (Arcturus) Catalog Objects: M-49/NGC-4472 Imaging Window: **09:05 – 02:27** Transit: **11:43 | 65°**	**C-11 HD: Primary Focus** 
Virgo A(M-87) Config: |C11HD|ZWO6200MC| Type: **Elliptical Galaxy** Constellation: **Virgo** Coordinates: **12h 30’ 49”** **12° 23’ 26”** Close Star: **SAO-100944** (Arcturus) Catalog Objects: M-87/NGC-4486 Imaging Window: **08:52 – 02:42** Transit: **11:44 | 69°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – April 08 2024

Cocoon Galaxy (NGC-4490)

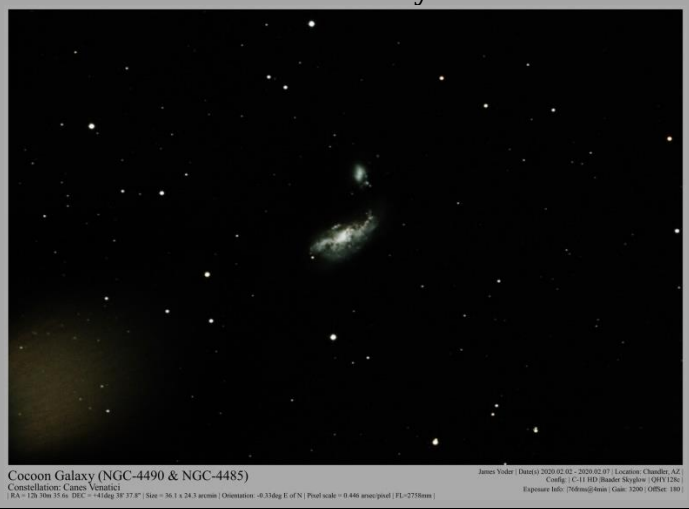
Config: |C11HD|ZWO6200MC|

Type: **Interacting Galaxy Pair**

Constellation: **Canes Venatici**
Coordinates:
12h 30’ 36”
41° 38’ 34”

Close Star: **SAO-28179** (Phecda)
Catalog Objects: NGC-4490, NGC-4485
Imaging Window: **08:39 – 03:33**
Transit: **11:44 | 82°**

C-11 HD: Primary Focus



Lemon Slice Nebula (IC-3568)

Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**
Constellation: **Camelopardalis**
Coordinates:
12h 33’ 14”
82° 33’ 22”

Close Star: **SAO-8102** (Kochab)
Catalog Objects: IC-3568/UGC-7731

Imaging Window: ***08:39 – 04:42**
Transit: **11:46 | 41°**

C-11 HD: Primary Focus

M-91 (NGC-4548)

Config: |C11-HD|FR|ZWO6200MC|

Type: **Barred Spiral Galaxy**

Constellation: **Coma Berenices**
Coordinates:
12h 36’ 11”
14° 20’ 51”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-91/NGC4548, NGC-4571
Imaging Window: **08:51 – 02:52**
Transit: **11:48 | 71°**

C-11 HD: Focal Reducer

Prospective Imaging Objects – April 08 2024

M-91(NGC-4548)
Config: |C11HD|ZWO6200MC|

Type: **Barred Spiral Galaxy**

Constellation: **Coma Berenices**
Coordinates:
12h 36’ 04”
14° 23’ 37”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-91/NGC4548, NGC-4571
Imaging Window: **08:51 – 02:52**
Transit: **11:48 | 71°**

C-11 HD: Primary Focus

M-89(NGC-4552)
Config: |C11HD|ZWO6200MC|

Type: **Elliptical Galaxy**

Constellation: **Virgo**
Coordinates:
12h 35’ 43”
12° 24’ 24”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-89/NGC4552, NGC-4551, NGC-4550, IC-3574, IC-3586
Imaging Window: **08:57 – 02:47**
Transit: **11:49 | 69°**

C-11 HD: Primary Focus

NGC-4559 (UGC-7766)
Config: |C11HD|ZWO6200MC|

Type: **Barred Spiral Galaxy**

Constellation: **Coma Berenices**
Coordinates:
12h 35’ 58”
27° 57’ 35”

Close Star: **SAO-44752** (Alkaid)
Catalog Objects: NGC-4559/UGC-7766
Imaging Window: **08:23 – 03:21**
Transit: **11:49 | 85°**

C-11 HD: Primary Focus

Prospective Imaging Objects – April 08 2024

Siamese Twins (NGC-4567)

Config: |C11HD|ZWO6200MC|

Type: **Elliptical Galaxy**

Constellation: **Virgo**
Coordinates:
12h 36’ 26”
11° 19’ 59”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: NGC-4567, NGC-4568, NGC-4564
Imaging Window: **09:01 – 02:44**
Transit: **11:49 | 68°**

C-11 HD: Primary Focus

Needle Galaxy (NGC-4565)

Config: |C11HD|ZWO6200MC|

Type: **Edge-on Galaxy**

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

Close Star: **SAO-44752** (Alkaid)
Catalog Objects: NGC-4565, NGC-4562
Imaging Window: **08:26 – 03:18**
Transit: **11:49 | 83°**

C-11 HD: Primary Focus

M-90 (NGC-4569)

Config: |C11HD|ZWO6200MC|

Type: **Spiral Galaxy**

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

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-90/NGC-4569 IC-3583, NGC-4584
Imaging Window: **08:56 – 02:50**
Transit: **11:50 | 70°**

C-11 HD: Primary Focus

Prospective Imaging Objects – April 08 2024

Galaxy Group 58

Config: | C-11HD | HyperStar |

Type: **Galaxy Group**

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

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-58/NGC-4579
Imaging Window: **09:01 – 02:47**
Transit: **11:51 | 69°**

C-11 HD: HyperStar v4

M-58 (NGC-4579)

Config: |C11HD|ZWO6200MC|

Type: **Barred Spiral Galaxy**

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

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-58/NGC-4579
Imaging Window: **09:01 – 02:47**
Transit: **11:51 | 69°**

C-11 HD: Primary Focus

M-68 (NGC-4590)

Config: |C11HD||ZWO6200MC|

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

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

Imaging Window: ***10:09 – 01:45**
Transit:**11:52 | 30°**

C-11 HD: Primary Focus

Prospective Imaging Objects – April 08 2024

Sombrero Galaxy (M-104)

Config: |C11HD|ZWO6200MC|

Type: **Edge-on Spiral Galaxy**

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

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-104/NGC-4594
Imaging Window: ***09:41 – 02:07**
Transit:**11:53 | 45°**

C-11 HD: Primary Focus

Whale and Hockey Stick (NGC-4631, NGC-4656)

Config: |C11-HD|FR|ZWO6200MC|

Type: **Galaxies**

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

Close Star: **SAO-99809** (Denebola)
Catalog Objects: NGC-4631, NGC-4656
Imaging Window: **08:22 – 03:35**
Transit: **11:55 | 89°**

C-11 HD: Focal Reducer

M-59, M-60 group

Config: |C11-HD|FR|ZWO6200MC|

Type: **Galaxy Group**

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

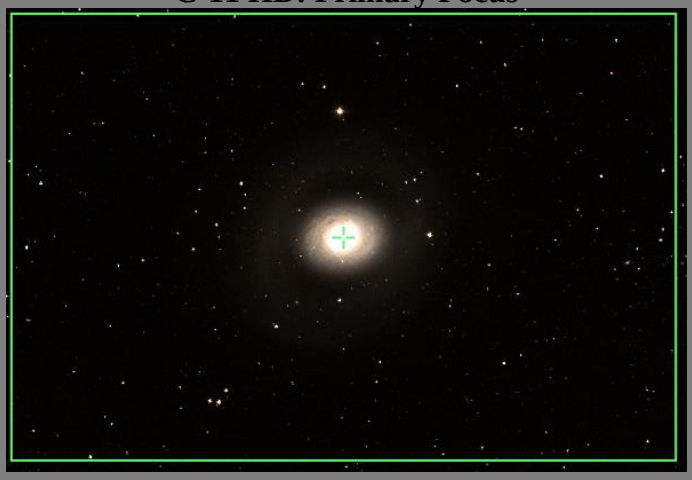
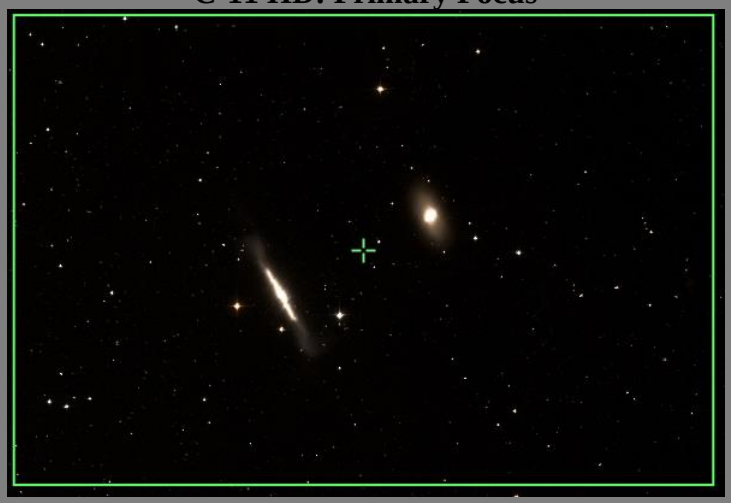
Close Star: **SAO-99809** (Denebola)
Catalog Objects: M-59/NGC-4621, M-60/NGC-4649, NGC-4656, 4647, 4638, 4607, 4606
Imaging Window: **09:06 – 02:51**
Transit: **11:55 | 68°**

C-11 HD: Focal Reducer

Prospective Imaging Objects – April 08 2024

TheMice (NGC-4676 A &B) Config: |C11HD|ZWO6200MC| Type: **Interacting Galaxies** Constellation: **Coma Berenices** Coordinates: **12h 46’ 07”** **30° 43’ 43”** Close Star: **SAO-99809** (Denebola) Catalog Objects: NGC-4676A & B Imaging Window: **08:25 – 03:36** Transit: **11:59 | 87°**	**C-11 HD: Primary Focus** 
NGC-4725 (PGC-43451) Config: |C11-HD|FR|ZWO6200MC| Type: **Galaxy group** Constellation: **Coma Berenices** Coordinates: **12h 50’ 55”** **25° 35’ 59”** Close Star: **SAO-99809** (Denebola) Catalog Objects: NGC-4725, NGC-4712, NGC-4747 Imaging Window: **08:41 – 03:32** Transit: **12:03 | 82°**	**C-11 HD: Focal Reducer**  Galaxy Cluster NGC-4747, NGC-4725, NGC4712 Constellation: Coma Berenices James Yoder | Date(s) 2021.01.02, 2021.01.03 | Location: Chandler, AZ | Config: |C11-HD | 0.7 Reducer | Filter: Baader Skyglow | Camera: QHY128C | Exposure Info: |96frms@3min | Gain: 3200 | Offset: 180 | | RA = 12h 50m 40.89s DEC = +25deg 36' 33.3" | Size = 44.39 x 29.62 arcmin | Orientation: 0deg E of N | Pixel scale = 0.630 arsec/pixel | FL=1953mm |
NGC-4725 (PGC-43451) Config: |C11HD|ZWO6200MC| Type: **Galaxy group** Constellation: **Coma Berenices** Coordinates: **12h 50’ 50”** **25° 35’ 23”** Close Star: **SAO-99809** (Denebola) Catalog Objects: NGC-4725, NGC-4712, NGC-4747 Imaging Window: **08:41 – 03:32** Transit: **12:03 | 82°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – April 08 2024

M-94 (NGC-4736) Config: |C11HD|ZWO6200MC| Type: **Galaxy** Constellation: **Canes Venatici** Coordinates: **12h 50’ 53”** **41° 07’ 17”** Close Star: **SAO-28553** (Alioth) Catalog Objects: M-94/NGC-4736 Imaging Window: **08:21 – 03:53** Transit: **12:04 | 82°**	**C-11 HD: Primary Focus** 
NGC-4731 (PGC-43507) Config: |C11HD|ZWO6200MC| Type: **Barred Spiral Galaxy** Constellation: **Virgo** Coordinates: **12h 51’ 01”** **-06° 21’ 49”** Close Star: **SAO-157923** (Spica) Catalog Objects: NGC-4731 Imaging Window: ***09:58 – 02:12** Transit: **12:04 | 50°**	**C-11 HD: Primary Focus** 
NGC-4762, 4754 (PGC-43733) Config: |C11HD|ZWO6200MC| Type: **Edge on Galaxy** Constellation: **Virgo** Coordinates: **12h 52’ 35”** **11° 16’ 42”** Close Star: **SAO-99809** (Denebola) Catalog Objects: NGC-4762, NGC-4754 Imaging Window: **09:18 – 03:00** Transit: **12:06 | 68°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – April 08 2024

Black Eye Galaxy (M-64)

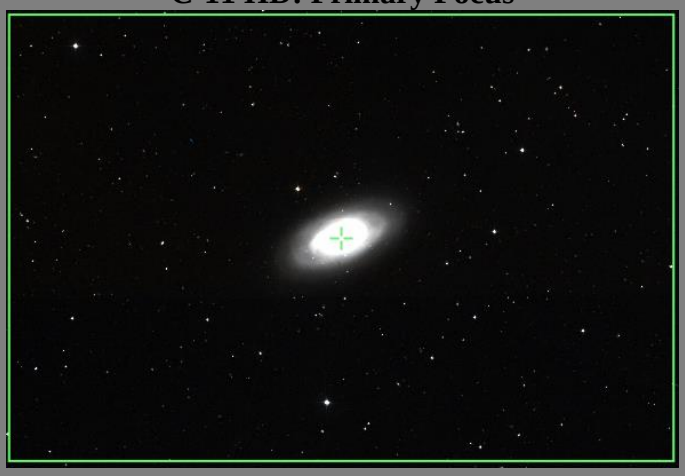
Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

Constellation: **Coma Berenices**
Coordinates:
12h 56’ 44”
21° 40’ 59”

Close Star: **SAO-99809** (Denebola)
Catalog Objects: M-64/NGC-4826
Imaging Window: **08:55 – 03:30**
Transit: **12:10 | 78°**

C-11 HD: Primary Focus



Coma Galaxy Cluster

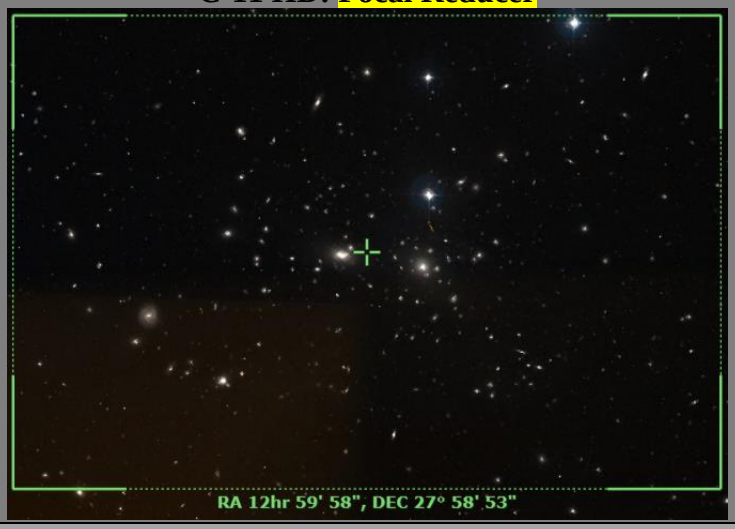
(Abell-1656)
Config: |C11-HD|FR|ZWO6200MC|

Type: **Galaxy Cluster**

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

Close Star: **SAO-99809** (Denebola)
Catalog Objects: Abell-1656
Imaging Window: **08:47 – 03:45**
Transit: **12:13 | 85°**

C-11 HD: Focal Reducer



Coma Galaxy Cluster

(Abell-1656)
Config: |C11HD|ZWO6200MC|

Type: **Galaxy Cluster**

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

Close Star: **SAO-99809** (Denebola)
Catalog Objects: Abell-1656
Imaging Window: **08:47 – 03:45**
Transit: **12:13 | 85°**

C-11 HD: Primary Focus

Prospective Imaging Objects – April 08 2024

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

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

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

Imaging Window: **09:19 – 03:39**
Transit: **12:26 | 75°**

C-11 HD: Primary Focus

NGC-5033 (PGC-45948)
Config: |C11HD|ZWO6200MC|

Type: **Spiral Galaxy**

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

Close Star: **SAO-28553** (Alioth)
Catalog Objects: NGC-5033/PGC-45948
Imaging Window: **08:48 – 04:11**
Transit: **12:26 | 87°**

C-11 HD: Primary Focus

Sunflower Galaxy (M-63)
Config: |C11HD|ZWO6200MC|

Type: **Spiral Galaxy**

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

Close Star: **SAO-28553** (Alioth)
Catalog Objects: M-63/NGC-5055, UGC-8313
Imaging Window: **08:45 – 04:19**
Transit: **12:29 | 81°**

C-11 HD: Primary Focus

Prospective Imaging Objects – April 08 2024

NGC-5053

Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

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

Close Star: **SAO-99809** (Denebola)
Catalog Objects: NGC-5053
Imaging Window: **09:24 – 04:39**
Transit: **12:29 | 74°**

C-11 HD: Primary Focus

Whirlpool Galaxy (M-51)

Config: |C11HD|ZWO6200MC|

Type: **Interacting Galaxies**

Constellation: **Canes Venatici**
Coordinates:
13h 29’ 53”
47° 11’ 44”

Close Star: **SAO-28553** (Alioth)
Catalog Objects: M-51/NGC-5194, NGC-5195
Imaging Window: **08:56 – 04:39**
Transit: **12:43 | 76°**

C-11 HD: Primary Focus

M-3 (NGC-5272)

Config: |C11HD|Barlow x2|ZWO6200MC|

Type: **Globular Cluster**
Constellation: **Canes Venatici**
Coordinates:
13h 42’ 11”
28° 22’ 34”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-3/NGC-5272

Imaging Window: **09:28 – 04:39**
Transit: **12:55 | 85°**

C-11 HD: Primary Focus *x2

Prospective Imaging Objects – April 08 2024

Heron Galaxy (NGC-5395) et el.

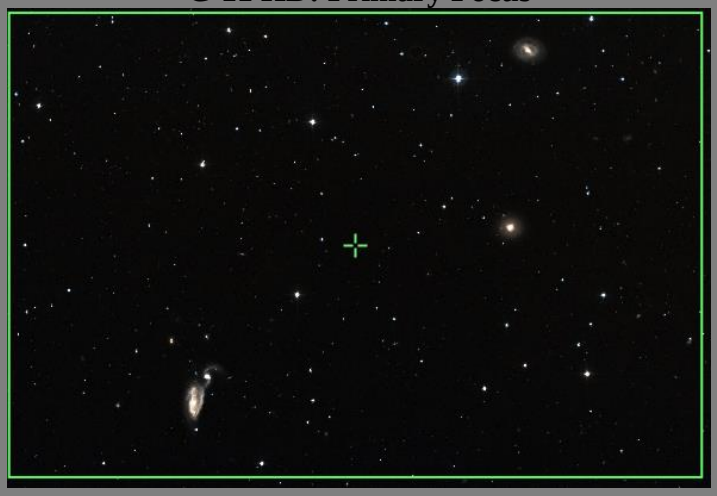
Config: |C11HD|ZWO6200MC|

Type: **Galaxies**

Constellation: **Canes Venatici**
Coordinates:
13h 57’ 46”
37° 35’ 31”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: NGC-5395, NGC-5394, NGC-5380, NGC-5378
Imaging Window: **09:32 – 04:39**
Transit: **01:11 | 86°**

C-11 HD: Primary Focus



Pinwheel Galaxy (M-101)

Config: |C11HD|ZWO6200MC|

Type: **Face-on Spiral Galaxy**

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

Close Star: **SAO-28553** (Alioth)
Catalog Objects: M-101/NGC-5457, NGC-5477
Imaging Window: **09:29 – 04:39**
Transit: **01:16 | 69°**

C-11 HD: Primary Focus

NGC-5466

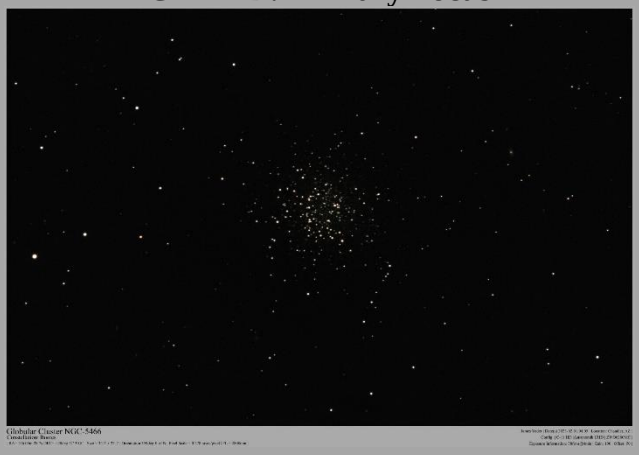
Config: |C11HD|Barlow x2|ZWO6200MC|

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

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

Imaging Window: **09:51 – 04:39**
Transit: **01:18 | 85°**

C-11 HD: Primary Focus



Prospective Imaging Objects – April 08 2024

Spindle Galaxy (M-102)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

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

Close Star: **SAO-28553** (Alioth)
Catalog Objects: M-102
Imaging Window: **10:33 – 04:39**
Transit: **02:19 | 69°**

C-11 HD: Primary Focus

NGC-5905, 5908

Config: |C11HD|ZWO6200MC|

Type: **Galaxies**

Constellation: **Drao**
Coordinates:
15h 16’ 07”
55° 28’ 10”

Close Star: **SAO-28737** (Mizar)
Catalog Objects: NGC-5905, 5908
Imaging Window: **10:42 – 04:39**
Transit: **02:28 | 68°**

C-11 HD: Primary Focus

Splinter Galaxy (NGC-5907)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

Constellation: **Drao**
Coordinates:
15h 15’ 54”
56° 19’ 49”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: NGC-5907
Imaging Window: **10:43 – 04:39**
Transit: **02:28 | 68°**

C-11 HD: Primary Focus

Prospective Imaging Objects – April 08 2024

M-5 (NGC-5904)

Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

Constellation: **Serpens**
Coordinates:
15h 18’ 34”
02° 05’ 00”

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: M-5/NGC-5904
Imaging Window: **12:16 – 04:39**
Transit: **02:31 | 59°**

C-11 HD: Primary Focus

Draco Trio (NGC-5985,5982,5981)

Config: |C11HD|ZWO6200MC|

Type: **Galaxies**

Constellation: **Drao**
Coordinates:
15h 38’ 20”
59° 22’ 56”

Close Star: **SAO-28737** (Mizar)
Catalog Objects: NGC-5985, NGC-5982, NGC-5981
Imaging Window: **11:10 – 04:39**
Transit: **02:52 | 64°**

C-11 HD: Primary Focus

Sharpless 2-1 (SH2-1)

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

Type: **Diffuse Nebula**

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

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

Imaging Window: ***01:28 – 04:39**
Transit: **03:11 | 31°**

C-11 HD: HyperStar v4

Prospective Imaging Objects – April 08 2024

Seyfert's Sextet (NGC-6027A-E)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy Group & One**

Constellation: **Serpens**
Coordinates:
15h 59' 46"
20° 47' 27"

Close Star: **SAO-83893**
Catalog Objects: NGC-6027A-E, UGC-10127
Imaging Window: **12:00 – 04:39**
Transit: **03:12 | 77°**

C-11 HD: Primary Focus

Hercules Galaxy Cluster (Abell-2151)

Config: |C11HD|ZWO6200MC|

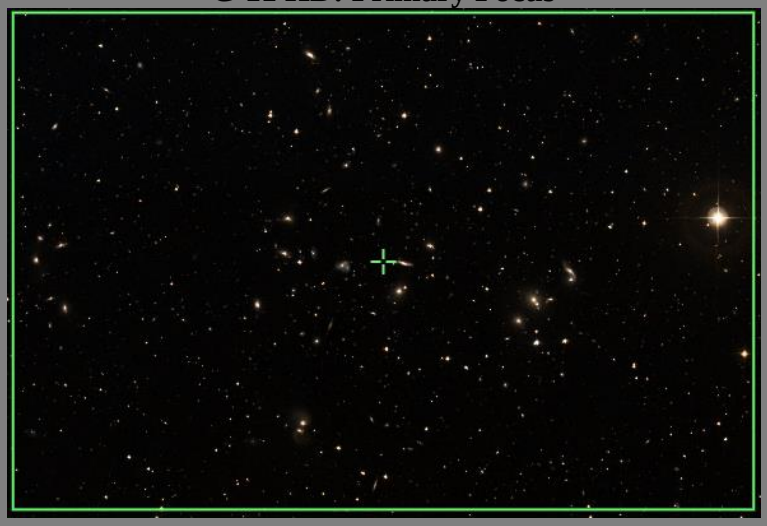
Type: **Galaxy Cluster**

Constellation: **Hercules**
Coordinates:
16h 05' 13"
17° 45' 39"

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

Imaging Window: **11:35 – 04:39**
Transit: **03:17 | 74°**

C-11 HD: Primary Focus



NGC-6058

Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Hercules**
Coordinates:
16h 04' 27"
40° 41' 01"

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: NGC-6058
Imaging Window: **11:35 – 04:39**
Transit: **03:17 | 83°**

C-11 HD: Primary Focus

Prospective Imaging Objects – April 08 2024

Tadpole Galaxy (Arp-188)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

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

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

Imaging Window: **11:33 – 04:39**
Transit: **03:18 | 68°**

C-11 HD: Primary Focus

White Eyed Pea (IC-4593)

Config: |C11HD|Barlow x2|ZWO6200MC|

Type: **Planetary Nebula**

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

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: IC-4593
Imaging Window: **12:34 – 04:39**
Transit: **03:24 | 69°**

C-11 HD: Primary Focus *x2

Blue Horshead (IC-4592)

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

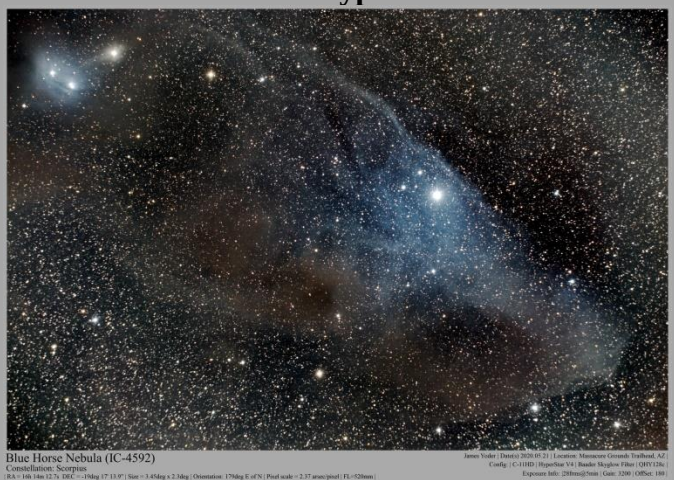
Type: **Bright Nebula**

Constellation: **Scorpius**
Coordinates:
16h 14’ 15”
-19° 17’ 16”

Close Star: **SAO-184415** (Antares)
Catalog Objects: IC-4592

Imaging Window: ***01:17 – 04:39**
Transit: **03:25 | 37°**

C-11 HD: HyperStar v4



Prospective Imaging Objects – April 08 2024

M-80 (NGC-6093) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Constellation: **Scorpius** Coordinates: **16h 17’ 02”** **-22° 58’ 28”** Close Star: **SAO-184415** (Antares) Catalog Objects: M-80/NGC-6093 Imaging Window: ***01:20 – 04:39** Transit: **03:29 | 34°**	**C-11 HD: Primary Focus** 
SH2-9 Config: |C11-HD|FR|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Scorpius** Coordinates: **16h 20’ 16”** **-25° 25’ 53”** Close Star: **SAO-184415** (Antares) Catalog Objects: SH2-9 Imaging Window: **01:42 – 04:39** Transit: **03:34 | 31°**	**C-11 HD: Focal Reducer** 
M-4 (NGC-6121) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Constellation: **Scorpius** Coordinates: **16h 23’ 35”** **-26° 31’ 29”** Close Star: **SAO-184415** (Antares) Catalog Objects: M-4/NGC-6121 Imaging Window: ***01:53 – 04:39** Transit: **03:36 | 30°**	**C-11 HD: Primary Focus** 

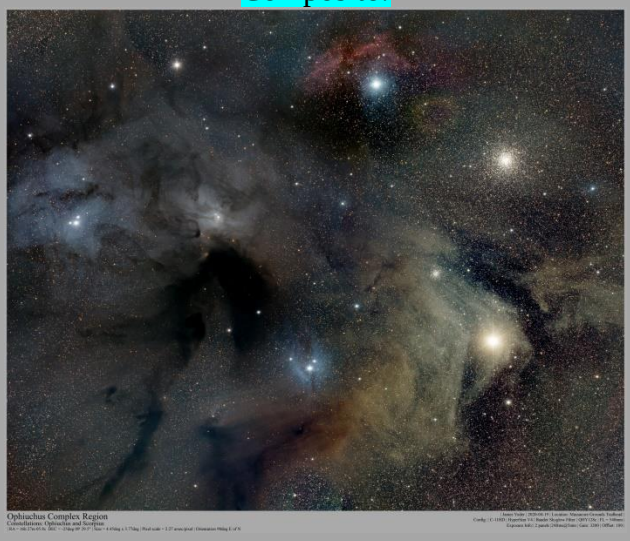
Prospective Imaging Objects – April 08 2024

Ophiuchus Complex (IC-4604)
Config: **C11-HD | HS | ZWO6200MC**
Composite with M-4
Type: **Bright Nebula**
Constellation: **Scorpius**
Coordinates:
Frame 01
RA: **16hr 26’ 46”** DEC: **-24° 08’ 13”**
Frame 02
RA: **16hr 26’ 46”** DEC: **-26° 14’ 42”**

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

Imaging Window: ***01:25 – 04:39**
Transit: **03:38 | 33°**

C-11 HD: HyperStar v4
Composite!



Abell-39 (PK 47+42.1)
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

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

Close Star: **SAO-84951** (Sarin)
Catalog Objects: Abell-39/PK 47+42.1
Imaging Window: **12:16 – 4:39**
Transit: **03:44 | 84°**

C-11 HD: Primary Focus

M-107 (NGC-6171)
Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

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

Close Star: **SAO-160006** (zeta Ophi)
Catalog Objects: M-107/NGC-6171
Imaging Window: ***01:09 – 04:39**
Transit: **03:45 | 44°**

C-11 HD: Primary Focus

Prospective Imaging Objects – April 08 2024

Hercules Cluster(M-13)

Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

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

Close Star: **SAO-067174** (Vega)
Catalog Objects: M-13/NGC-6205
Imaging Window: **12:16 – 04:39**
Transit: **03:54 | 87°**

C-11 HD: Primary Focus

Turtle Nebula (NGC-6210)

Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

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

Close Star: **SAO-84411 (Kornephoros)**
Catalog Objects: NGC-6210
Imaging Window: **12:39 – 04:39**
Transit: **03:57 | 80°**

C-11 HD: Primary Focus

M-12(NGC-6218)

Config: |C11HD|ZWO6200MC|

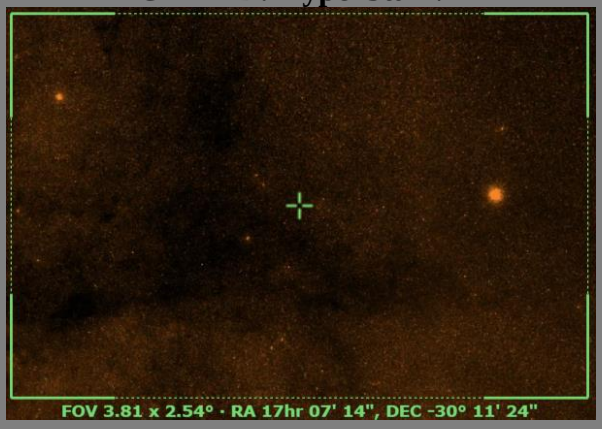
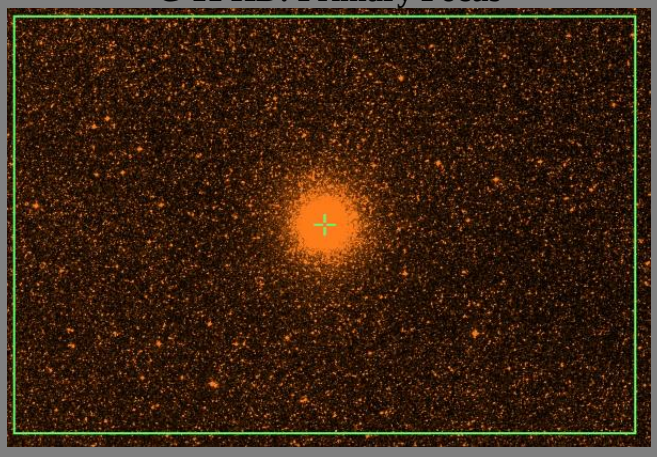
Type: **Globular Cluster**

Constellation: **Ophiuchus**
Coordinates:
16h 47’ 15”
-01° 56’ 50”

Close Star: **SAO-160006** (zeta Ophi)
Catalog Objects: M-12/NGC-6218
Imaging Window: **02:50 – 04:39**
Transit: **04:00 | 55°**

C-11 HD: Primary Focus

Prospective Imaging Objects – April 08 2024

M-10(NGC-6254) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Constellation: **Ophiuchus** Coordinates: **16h 57’ 09”** **-04° 05’ 56”** Close Star: **SAO-160006** (zeta Ophi) Catalog Objects: M-10/NGC-6254 Imaging Window: **02:28 – 04:39** Transit: **04:09 | 53°**	**C-11 HD: Primary Focus** 
M-62 Region (NGC-6266) Config: **C11-HD | HS | ZWO6200MC** Type: **Globular Cluster** Constellation: **Ophiuchus** Coordinates: **16h 25’ 36”** **-23° 27’ 00”** Close Star: **SAO-160006** (zeta Ophi) Catalog Objects: M-62/NGC-6266 Imaging Window: ***02:10 – 04:39** Transit: **04:13 | 33°**	**C-11 HD: HyperStar v4** 
M-62(NGC-6266) Config: |C11HD|ZWO6200MC| Type: **Globular Cluster** Constellation: **Ophiuchus** Coordinates: **17h 01’ 13”** **-30° 06’ 42”** Close Star: **SAO-160006** (zeta Ophi) Catalog Objects: M-62/NGC-6266 Imaging Window: ***02:10 – 04:39** Transit: **04:13 | 33°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – April 08 2024

M-19 (NGC-6273)

Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

Constellation: **Ophiuchus**
Coordinates:
17h 02’ 38”
-26° 16’ 03”

Close Star: **SAO-160006** (zeta Ophi)
Catalog Objects: M-19/NGC-6273
Imaging Window: ***02:32 – 04:39**
Transit: **04:15 | 30°**

C-11 HD: Primary Focus

Box Nebula (NGC-6309)

Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Hercules**
Coordinates:
17h 14’ 04”
-12° 54’ 37”

Close Star: **SAO-160332** (Sabik)
Catalog Objects: NGC-6309
Imaging Window: ***01:48 – 04:39**
Transit: **04:26 | 44°**

C-11 HD: Primary Focus

M-92 (NGC-6341)

Config: |C11HD|ZWO6200MC|

Type: **Globular Cluster**

Constellation: **Hercules**
Coordinates:
17h 17’ 07”
43° 08’ 13”

Close Star: **SAO-067174** (Vega)
Catalog Objects: M-92/NGC-6341
Imaging Window: **12:46 – 04:39**
Transit: **04:29 | 80°**

C-11 HD: Primary Focus

Prospective Imaging Objects – April 08 2024

M-9(NGC-6333) Config: |C11-HD|FR|ZWO6200MC| Type: **Glob Cluster & DNeb** Constellation: **Ophiuchus** Coordinates: **17h 18’ 24”** **-18° 34’ 58”** Close Star: **SAO-160006** (zeta Ophi) Catalog Objects: M-9/NGC-6333 Imaging Window: ***02:26 – 04:39** Transit: **04:31 | 38°**	**C-11 HD: Focal Reducer** 
M-9(NGC-6333) Config: |C11HD|ZWO6200MC| Type: **Glob Cluster & DNeb** Constellation: **Ophiuchus** Coordinates: **17h 19’ 12”** **-18° 30’ 57”** Close Star: **SAO-160006** (zeta Ophi) Catalog Objects: M-9/NGC-6333 Imaging Window: ***02:26 – 04:39** Transit: **04:31 | 38°**	**C-11 HD: Primary Focus** 

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Page

Prospective Imaging Objects – April 08 2024

Imaging Summary April 08, 2024

Astronomical Dusk = 08:19 Astronomical Dawn = 04:39

HyperStar: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Nebula	Nebula	SH2-1	*01:28-04:39	03:11	31	Scorpius: Diffuse Nebula
HyperStar	Nebula	Nebula	IC-4592	*01:17-04:39	03:25	33	Scorpius: Blue Horsehead Nebula

HyperStar: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Broad Spectrum	Galaxies	IC-2574	08:39 – 01:05	09:42	06	Leo: Galaxy Group 2574
HyperStar	Broad Spectrum	Galaxies	M-96, 95 Et El	08:59 – 12:56	10:00	07	Leo: Leo Galaxy Group
HyperStar	Broad Spectrum	Gal, PN	M108 & NGC3587	08:39 – 02:17	10:25	08	Ursa Major: M104 and Owl Nebula
HyperStar	Broad Spectrum	Galaxies	Galaxy Group 106	08:39 – 03:25	11:32	15	Canes Venatici: Galaxy Group M-106
HyperStar	Broad Spectrum	Galaxies	Markarian Chain	08:45 – 02:37	11:38	17	Virgo: Galaxy Chain
HyperStar	Broad Spectrum	Galaxies	Markarian Chain2	08:45 – 02:37	11:38	17	Virgo: Galaxy Chain2
HyperStar	Broad Spectrum	Galaxies	Galaxy Group 58	09:01 – 02:47	11:51	22	Virgo Galaxy Group M-58
HyperStar	Broad Spectrum	DN, GC	M-62 Region	*02:10-04:39	04:13	37	Ophiuchus: Globular Cluster and Dark Nebula

Prospective Imaging Objects – April 08 2024

Imaging Summary April 08, 2024

Astronomical Dusk = 08:19 Astronomical Dawn = 04:39

Focal Reducer: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Broad Spectrum	Nebula	SH2-9	01:42 – 04:39	03:34	34	Scorpius: Nebula next to Antares

Focal Reducer: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Broad Spectrum	Galaxies	M-81 & M-82	08:39 – 12:26	09:09	03	Rot90° Ursa Major: Galaxy Pair Bode's Cigar
Focal Reducer	Broad Spectrum	Galaxies	M-95 & M-96	08:39 – 12:53	09:57	07	Leo: Galaxy Pair
Focal Reducer	Broad Spectrum	Galaxies	M65, et. El.	08:39 – 01:34	10:33	10	Comp2! Leo Trio of galaxies (M65, M66, NGC3628)
Focal Reducer	Broad Spectrum	Galaxies	M-106, NGC4248	08:39 – 03:25	11:32	15	Canes Venatici: Galaxies
Focal Reducer	Broad Spectrum	Galaxies	M-84 et. El.	08:45 – 02:37	11:38	17	Virgo: Markarians Chain
Focal Reducer	Broad Spectrum	Galaxies	M-91, NGC4548	08:51 – 02:52	11:48	19	Coma Berenices: Galaxy Pair
Focal Reducer	Broad Spectrum	Galaxies	NGC4631, 4656	08:22 – 03:35	11:55	23	Canes Venatici: Whale and Hockey Stick
Focal Reducer	Broad Spectrum	Galaxies	M-59, M-60	09:06 – 02:51	11:55	23	Virgo: Galaxy Group
Focal Reducer	Broad Spectrum	Galaxies	NGC-4725 et. El.	08:41 – 03:32	12:03	24	Coma Berenices Galaxy Group
Focal Reducer	Broad Spectrum	Galaxies	Abell-1656	08:47 – 03:45	12:13	26	Coma Berenices: Coma Galaxy Cluster
Focal Reducer	Broad Spectrum	DN, GC	M-9	*02:26-04:39	04:31	39	Ophiuchus: Globular Cluster and Dark Nebula

Prospective Imaging Objects – April 08 2024

Imaging Summary April 08, 2024

Astronomical Dusk = 08:19 Astronomical Dawn = 04:39

Primary Focus: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	PN	NGC-3242	*08:39-11:43	09:38	06	Hydra: Ghost of Jupiter
Primary Focus	Nebula	PN	M-97	08:39 – 02:20	10:28	09	Ursa Major: Owl Nebula
Primary Focus	Nebula	PN	NGC-4361	*09:36-01:45	11:37	16	Corvus: Small Planetary Nebula
Primary Focus	Nebula	PN	IC-3568	*08:39-04:42	11:46	19	Camelopardalis: Lemon Slice Nebula
Primary Focus	Nebula	PN	NGC-6058	11:35 – 04:39	03:17	32	Hercules: Small PN
Primary Focus	Nebula	PN	IC-4593	12:34 – 04:39	03:24	33	Hercules: White Eyed Pea
Primary Focus	Nebula	PN	Abell-39	12:16 – 04:39	03:44	35	Hercules: Perfect Planetary PK 47+42.1
Primary Focus	Nebula	PN	NGC-6210	12:39 – 04:39	03:57	36	Hercules: Small PN Turtle Nebula
Primary Focus	Nebula	PN	NGC-6309	*01:48-04:39	04:26	38	Hercules: Box Nebula
Primary Focus	Nebula	PN					

Prospective Imaging Objects – April 08 2024

Imaging Summary April 08, 2024

Astronomical Dusk = 08:19 Astronomical Dawn = 04:39

Primary Focus: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	NGC-2685	08:39 – 12:05	08:46	02	Ursa Major: Helix Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-2903	08:39 – 12:05	08:46	02	Leo: Med Face On Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-81	08:39 – 12:29	09:09	03	Ursa Major: Bode's Nebula
Primary Focus	Broad Spectrum	Galaxy	M-82	08:39 – 12:26	09:09	04	Ursa Major: Cigar Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-3115	*08:39-12:27	09:19	04	Sextans: Spindle Galaxy
Primary Focus	Broad Spectrum	Galaxy	UGC-5470	08:39 – 12:19	09:22	04	Leo: Powder keg Galaxy UGC-5470
Primary Focus	Broad Spectrum	Galaxies	NGC-3166, 3169	08:39 – 11:54	09:27	05	Sextans: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	Hickson 44	08:39 – 12:52	09:31	05	Leo: Galsxy Group NGC-3190, 3189
Primary Focus	Broad Spectrum	Galaxy	NGC-3184	08:39 – 01:21	09:32	05	Ursa Major: Med Face On Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-3227, 3226	08:39 – 12:53	09:37	06	Leo: Interacting Galaxies
Primary Focus	Broad Spectrum	Galaxy	IC-2574	08:39 – 01:05	09:42	07	Leo: Coddington's Nebula
Primary Focus	Broad Spectrum	Galxies	NGC-3379 et. El.	08:39 – 12:59	10:01	08	Leo: Leo Trio 2 of galaxies
Primary Focus	Broad Spectrum	Galaxies	NGC-3561 et. El	08:39 – 02:17	10:25	08	Ursa Major: Abartsumian's Knot et. El.
Primary Focus	Broad Spectrum	Galaxy	M-108	08:39 – 02:17	10:25	09	Ursa Major: Irregular Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-3628	08:39 – 01:34	10:33	10	Leo: Edge on Galalaxy
Primary Focus	Broad Spectrum	Galaxies	M-65, M-66	08:39 – 01:33	10:33	11	Leo: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	Arp-214	08:39 – 02:39	10:46	11	Ursa Major: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	NGC-3745 et. El	08:39 – 02:12	10:51	11	Leo: Copeland's Septet
Primary Focus	Broad Spectrum	Galaxies	Abell-1367	08:39 – 02:15	10:58	12	Leo: Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxies	Arp-248	*08:39-01:56	11:00	12	Ursa Major: Wild's Triplet
Primary Focus	Broad Spectrum	Galaxy	M-109	08:39 – 03:04	11:11	12	Ursa Major: Face on med spiral galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4027	*09:13-01:17	11:13	13	Corvus: Irregular galaxy
Primary Focus	Broad Spectrum	Galaxies	Arp-244	*09:19-01:23	11:15	13	Corvus: Antennae Galaxies

Prospective Imaging Objects – April 08 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	M-98	08:39 – 02:31	11:27	13	Cooma Beerenices: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4236	08:39 – 02:48	11:30	14	Draco: Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4244	08:39 – 03:16	11:30	14	Canes Venatici: Silver Needle
Primary Focus	Broad Spectrum	Galaxy	M-99	08:39 – 02:35	11:32	14	Coma Berenices: St. Katherines Wheel
Primary Focus	Broad Spectrum	Galaxy	M-61	09:10 – 02:06	11:35	15	Virgo: Face on Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	M-40	08:39 – 03:25	11:35	16	Ursa Major: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	M-100	08:39 – 02:43	11:36	16	Coma Berenices: Set of Galaxies
Primary Focus	Broad Spectrum	Galaxy	NGC-4449	08:39 – 03:33	11:41	18	Canes Venatici: Interesting Irregular Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-49	09:05 – 02:27	11:43	18	Virgo: Elliptical Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-87	08:52 – 02:42	11:44	18	Virgo: Virgo A Elliptical Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-4490	08:39 – 03:33	11:44	19	Canes Venatici: Interacting Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	M-91	08:51 – 02:52	11:48	20	Coma Berenices: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	M-89 et. El	08:57 – 02:47	11:49	20	Virgo: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	NGC-4559	08:23 – 03:21	11:49	20	Coma Berenices: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-4567	09:01 – 02:44	11:49	21	Virgo: Siamese Twins et. El.
Primary Focus	Broad Spectrum	Galaxy	NGC-4565	08:26 – 03:18	11:49	21	Coma Berenices: Needle Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-90	08:56 – 02:50	11:50	21	Virgo: Med Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-58	09:0-1 – 02:47	11:51	22	Virgo: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Globular	M-68	*10:09-01:45	11:52	22	Hydra: Med Globular
Primary Focus	Broad Spectrum	Galaxy	M-104	*09:41-02:07	11:53	23	Virgo: Sombrero Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4676 A&B	08:25 – 03:36	11:59	24	Coma Berenices: The Mice
Primary Focus	Broad Spectrum	Galaxies	NGC-4725	08:41 – 03:32	12:03	24	Coma Berenices: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	M-94	08:21 – 03:53	12:04	25	Canes Venatici: Med Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4731	*09:58-02:12	12:04	25	Virgo: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-4762, 4754	09:18 – 03:00	12:06	25	Virgo: Edge on and other Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-64	08:55 – 03:30	12:10	26	Coma Berenices: Black Eye Galaxy
Primary Focus	Broad Spectrum	Galaxies	Abell-1656	08:47 – 03:45	12:13	26	Coma Berenices: Coma Galaxy Cluster
Primary Focus	Broad Spectrum	Globular	M-53	09:19 – 03:39	12:26	27	Coma Berenices: Med Globular

Prospective Imaging Objects – April 08 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	NGC-5033	08:48 – 04:11	12:26	27	Canes Venatici: Med Face on Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-63	08:45 – 04:19	12:29	27	Canes Venatici: Med Face on Galaxy
Primary Focus	Broad Spectrum	Globular	NGC-5053	09:24 – 04:39	12:29	28	Coma Berenices Large open Globular
Primary Focus	Broad Spectrum	Galaxy	M-51	08:56 – 04:39	12:34	28	Canes Venatici: Whirlpool Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-3	09:28 – 04:39	12:55	28	Canes Venatici: Large Globular
Primary Focus	Broad Spectrum	Galaxy	NGC-5395	09:32 – 04:39	01:11	29	Canes Venatici: Heron Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-101	09:29 – 04:39	01:16	29	Ursa Major: Pinwheel Galaxy
Primary Focus	Broad Spectrum	Globular	NGC-5466	09:51 – 04:39	01:18	29	Bootes: Large open globular
Primary Focus	Broad Spectrum	Galaxy	M-102	10:33 – 04:39	02:19	30	Draco: Spindle Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-5905, 5908	10:42 – 04:39	02:28	30	Draco: Face on and Edge on galaxy pair
Primary Focus	Broad Spectrum	Galaxy	NGC-5907	10:43 – 04:39	02:28	30	Draco: Splinter Galaxy
Primary Focus	Broad Spectrum	Globular	M-5	12:16 – 04:39	02:31	31	Serpens: Med Globular
Primary Focus	Broad Spectrum	Galaxies	NGC-5985, 81, 82	11:10 – 04:39	02:52	31	Draco: Draco Trio of galaxies
Primary Focus	Broad Spectrum	Galaxies	NGC-6027A-E	12:00 – 04:39	03:12	32	Serpens: Seyfert's Sextet
Primary Focus	Broad Spectrum	Galaxies	Abell-2151	11:35 – 04:39	03:17	32	Hercules: Hercules Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxy	Arp-188	11:32 – 04:39	03:18	33	Draco: Tadpole Galaxy
Primary Focus	Broad Spectrum	Globular	M-80	*01:20-04:39	03:29	34	Scorpius: Med Globular NGC-6093
Primary Focus	Broad Spectrum	Globular	M-4	*01:53-04:39	03:36	34	Scorpius: Large Globular Cluster NGC-6121
Primary Focus	Broad Spectrum	Globular	M-107	*01:09-04:39	03:45	35	Ophiuchus: Med Globular NGC-6171
Primary Focus	Broad Spectrum	Globular	M-13	12:16 – 04:39	03:54	36	Hercules: The Great Hercules Globular NGC-5205
Primary Focus	Broad Spectrum	Globular	M-12	02:50 – 04:39	04:00	36	Ophiuchus: Large Globular NGC-6218
Primary Focus	Broad Spectrum	Globular	M-10	02:28 – 04:39	04:09	37	Ophiuchus: Large Globular NGC-6254
Primary Focus	Broad Spectrum	Globular	M-62	*02:10-04:39	04:13	37	Ophiuchus: Large Globular NGC-6266
Primary Focus	Broad Spectrum	Globular	M-19	*02:32-04:39	04:15	38	Ophiuchus: Med Globular NGC-6273
Primary Focus	Broad Spectrum	Globular	M-92	12:46 – 04:39	04:29	38	Hercules: Med Globular NGC-6341
Primary Focus	Broad Spectrum	Globular	M-9	*02:26-04:39	04:31	39	Ophiuchus: Med Globular NGC-6333

Prospective Imaging Objects – April 08 2024

Imaging Summary April 08, 2024

Astronomical Dusk = 08:19 Astronomical Dawn = 04:39

Primary Prospects

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	HyperStar	Broadband	Galaxies	IC-2574 Et. El.	08:38 – 01:05	09:42	06	Leo: Galaxy Group 2574
	HyperStar	Broadband	Galaxies	M-106 et. El	08:39 – 03:25	11:32	15	Canes Venatici: Galaxy Group 106
	HyperStar	Broadband	Galaxies	M-84 Et. El	08:45 – 02:37	11:38	17	Virgo: Markarian Chain 2
	HyperStar	Broadband	Galaxies	M-58 Et. El	09:01 – 02:47	11:51	22	Virgo: Galaxy Group M-58
	HyperStar	Nebula	Nebula	SH2-1	*01:28-04:39	03:11	31	Scorpius: Blue Nebula
	HyperStar	Broadband	DN, GC	M-62 Region	*02:10-04:39	04:13	37	Ophiuchus: M-62 Region
	Focal Reducer	Broadband	Galaxies	M-81, M-82	08:39 – 12:26	09:09	03	Rot Ursa Major: Bode's Cigar
	Focal Reducer	Broadband	Galaxies	M-84 et. El.	08:45 - 02:37	11:38	17	Virgo: Markarian's Chain
	Focal Reducer	Broadband	Galaxies	M-91	08:51 – 02:52	11:48	19	Coma Berenices: Galaxy Pair
	Focal Reducer	Broadband	Galaxies	Abell-1656	08:47 – 03:45	12:13	26	Coma Berenices: Coma Galaxy Cluster
	Focal Reducer	Nebula	Nebula	SH2-9	01:42 – 04:39	03:34	34	Scorpius: Diffuse Nebula near star
	Focal Reducer	Broadband	DN & GC	M-9	*02:26-04:39	04:31	39	Ophiuchus: Dark Nebula and Globular
	Primary Focus	Broadband	Galaxy	NGC-2685	08:39 – 12:05	08:46	02	Ursa Major: Helix Galaxy
	Primary Focus	Broadband	Galaxy	NGC-3115	*08:39-12:27	09:19	04	Sextans: Spindle Galaxy
	Primary Focus	Broadband	Galaxies	NGC3227, 3226	08:39 – 12:53	09:37	06	Leo: Interacting Galaxies
	Primary Focus	Broadband	Galaxies	NGC-3561 et. El.	08:39 – 02:17	10:25	08	Ursa Major: Ambartsumian's Knot
	Primary Focus	Broadband	Galaxy	M-108	08:39 – 02:17	10:25	09	Ursa Major: Irregular Galaxy NGC-3555
	Primary Focus	Broadband	Galaxies	NGC-3746 Et. El.	08:39 – 02:12	10:51	11	Leo: Copeland's Septet
	Primary Focus	Broadband	Galaxies	Arp-248	*08:39-01:56	11:00	12	Ursa Major: Wild's Triplet
	Primary Focus	Broadband	Galaxy	M-109	08:39 – 03:04	11:11	12	Ursa Major: Face on Spiral
	Primary Focus	Broadband	Galaxies	Arp-244	*09:19-01:23	11:15	13	Corvus: Antennae Galaxies

Prospective Imaging Objects – April 08 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Primary Focus	Broadband	Galaxy	M-98	08:39 – 02:31	11:27	13	Coma Berenices: Galaxy NGC-4192
	Primary Focus	Broadband	Galaxy	NGC-4244	08:39 – 03:16	11:30	14	Canes Venatici: Sliver Needle Galaxy
	Primary Focus	Broadband	Galaxy	M-99	08:39 – 02:35	11:32	14	Coma Berenices: St. Katherines Wheel
	Primary Focus	Broadband	Galaxy	M-61	09:10 – 02:06	11:35	15	Virgo: Med Face-on Galaxy
	Primary Focus	Broadband	Galaxies	M-100 et. El.	08:39 - 02:43	11:36	16	Coma Berenices: Galaxy Group 100
	Primary Focus	Broadband	Galaxy	NGC-4449	08:39 – 03:33	11:41	18	Canes Venatici: Irregular Galaxy
	Primary Focus	Broadband	Galaxy	NGC-4559	08:23 – 03:21	11:49	20	Coma Berenices: Barred Spiral Galaxy
	Primary Focus	Broadband	Galaxies	NGC-4567 et. El.	09:01 – 02:44	11:49	21	Virgo: Siamese Twins
	Primary Focus	Broadband	Galaxy	M-90	08:56 – 02:50	11:50	21	Virgo: Med Galaxy
	Primary Focus	Broadband	Galaxy	M-58	09:01 – 02:47	11:51	22	Virgo: Barred Spiral Galaxy NGC-4579
	Primary Focus	Broadband	Globular	M-68	*10:09-01:45	11:52	22	Hydra: Med Globular
	Primary Focus	Broadband	Galaxies	NGC-4731	*09:58-02:12	12:04	25	Virgo: Face on Barred Spiral
	Primary Focus	Broadband	Galaxies	NGC-4762, 4754	09:18 – 03:00	12:06	25	Virgo: Galaxy Pair
	Primary Focus	Broadband	Galaxy	NGC-5033	08:48 – 04:11	12:26	27	Canes Venatici: Face on Galaxy PGC-45948
	Primary Focus	Broadband	Galaxies	NGC-5395 Et. El.	09:32 – 04:39	01:11	29	Canes Venatici: Heron Galaxy Et. El.
	Primary Focus	Broadband	Galaxies	Abell-2151	11:35 – 04:39	03:17	32	Hercules: Hercules Galaxy Cluster
	Primary Focus	Nebula	PN	NGC-6058	11:35 – 04:39	03:17	32	Hercules: Small Planetary nebula
	Primary Focus	Nebula	PN	IC-4593	12:34 – 04:39	03:24	33	Hercules: White Eyed Pea
	Primary Focus	Broadband	GC	M-107	*1:09-04:39	03:45	35	Ophiuchus: Med Globular
	Primary Focus	Broadband	GC	M-10	02:28 – 04:39	04:09	37	Ophiuchus: Large Globular
	Primary Focus	Broadband	GC	M-62	*02:10-04:39	04:13	37	Ophiuchus: Large Globular
	Primary Focus	Broadband	GC	M-19	*02:32-04:39	04:15	38	Ophiuchus: Large Globular
	Primary Focus	Nebula	PN	NGC-6309	*01:48-04:39	04:26	38	Hercules: Box Nebula

Prospective Imaging Objects – April 08 2024

Imaging Summary April 08, 2024

Astronomical Dusk = 08:19 Astronomical Dawn = 04:39

Imaging Plans

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Imaging Schedule
	HyperStar	Nebula	Nebula	**SH2-240**				07:00 – 02:30 (Rot 90°, Comp-2)
	HyperStar	Nebula	Nebula	IC-2162				08:00 – 02:30 (Rot 90°)
	HyperStar	Nebula	Nebula	NGC-1499				07:00 – 01:00
	HyperStar	Broadband	Galaxies	M-106 et. El.				01:00 – 06:00
	Focal Reducer	Nebula	Nebula	IC-443				08:00 – 03:00 (Comp-2)
	Focal Reducer	Broadband	Galaxies	M-84 et. El.				03:00 – 06:00
	Focal Reducer	Nebula	Nebula	IC-1805				07:00 – 10:30
	Focal Reducer	Nebula	Nebula	NGC-2174				10:30 – 02:30
	Focal Reducer	Broadband	Galaxies					
	Primary Focus	Nebula	PN	NGC-1360				07:00 – 10:30
	Primary Focus	Nebula	PN	NGC-2440				10:30 – 01:30
	Primary Focus	Nebula	PN	NGC-2610				01:30 – 03:30
	Primary Focus	Broad Spectrum	Globular	M-68				03:30 – 06:00
	Primary Focus	Nebula	Nebula					
	Primary Focus	Nebula	Nebula					
	Primary Focus	Broad Spectrum	Galaxy					
	Primary Focus	Broad Spectrum	Galaxy					
	Primary Focus	Broad Spectrum	Galaxy					