Prospective Imaging Objects – March 10 2024

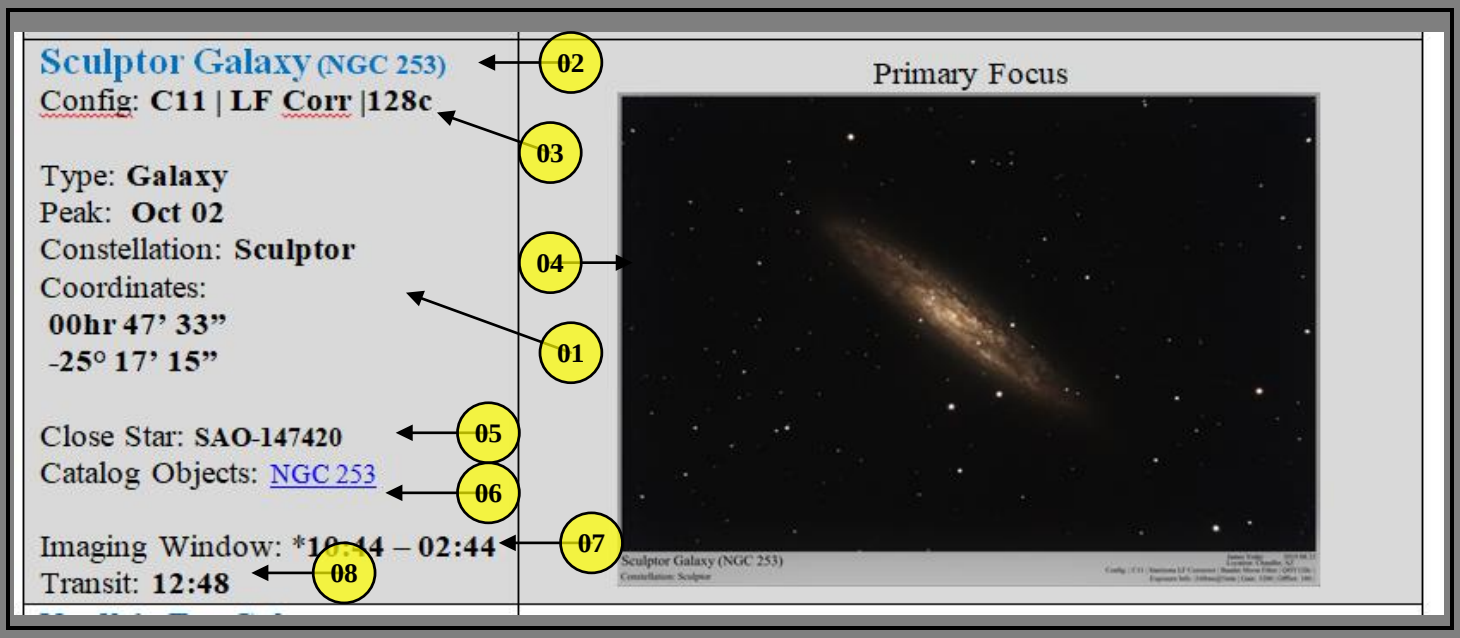
Astronomical Data

Sunrise	Sunset	Astronomical Dusk	Astronomical Dawn	Imaging	New Moon
06:43am	06:32 pm	07:54 pm	05:21 am	09:12	March 10

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 – March 10 2024

M-41 (NGC 2287) Config: |C11HD|ZWO6200MC| Type: **Open Cluster** Constellation: **Canis Major** Coordinates: **06hr 46' 09"** **20° 47' 35"** Close Star: **SAO-151881** (Sirius) Catalog Objects: M-41/NGC 2287 Imaging Window: ***07:54 – 09:49** Transit: **07:54 | 36°**	**C-11 HD: Primary Focus** 
M-50 (NGC 2323) Config: |C11HD|ZWO6200MC| Type: **Open Cluster** Constellation: **Monoceros** Coordinates: **07hr 02' 48"** **-08° 22' 33"** Close Star: **SAO-151881** (Sirius) Catalog Objects: M-50/NGC 2323 Imaging Window: ***07:54 – 11:12** Transit: **08:11 | 48°**	**C-11 HD: Primary Focus** 
Seagull Nebula (IC-2177) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Monoceros** Coordinates: **07hr 06' 20"** **-11° 06' 56"** Close Star: SAO-151881 (Sirius) Catalog Objects: IC-2177 Imaging Window: ***07:54 – 11:07** Transit: **08:12 | 46°**	**C-11 HD: HyperStar v4 - 90° Rotation** 

Prospective Imaging Objects – March 10 2024

Seagull Nebula (IC 2177) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Peak: Constellation: **Monoceros** Coordinates: **07hr 04' 47"** **-10° 27' 49"** Close Star: SAO-151881 (Sirius) Catalog Objects: IC 2177 Imaging Window: ***07:54 – 11:07** Transit: **08:12 | 46°**	**C-11 HD: Primary Focus** 
Hourglass Nebula (NGC-2346) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Peak: Constellation: **Monoceros** Coordinates: **07hr 09' 23"** **00° 48' 22"** Close Star: SAO-115756 (Procyon) Catalog Objects: NGC-2346 Imaging Window: ***07:54 – 11:51** Transit: **08:17 | 56°**	**C-11 HD: Primary Focus** x2 
Integral Sign Galaxy (UGC 3697) Config: |C11HD|FR|ZWO6200MC| Type: **Galaxy Group** Constellation: **Camelopardalis** Coordinates: **07hr 11' 40"** **71° 56' 04"** Close Star: **SAO-40186** (Capella) Catalog Objects: UGC-3697, UGC-3714, UGC-3701 Imaging Window: **07:54 – 11:20** Transit: **08:19 | 51°**	**C-11 HD: Focal Reducer** 

Prospective Imaging Objects – March 10 2024

Integral Sign Galaxy (UGC 3697) Config: |C11HD|ZWO6200MC| Type: **Galaxy** Constellation: **Camelopardalis** Coordinates: **07hr 11' 50"** **71° 48' 14"** Close Star: **SAO-40186** (Capella) Catalog Objects: UGC-3697, UGC-3714 Imaging Window: **07:54 – 11:20** Transit: **08:19 | 51°**	**C-11 HD: Primary Focus** 
Thor's Helmet (NGC-2359) Config: |C11HD|ZWO6200MC| Type: **Diffuse Nebula** Constellation: **Canis Major** Coordinates: **07h 18' 26.223"** **-13° 15' 29.563"** Close Star: SAO-151881 (Sirius) Catalog Objects: NGC-2359/ Sh2-298/ LBN1041 Imaging Window: ***07:54 – 11:07** Transit: **08:26 | 43°**	**C-11 HD: Primary Focus** 
Candy Wrapper (NGC-2371) Config: |C11HD|ZWO6200MC| Type: **Planetary Nebula** Constellation: **Gemini** Coordinates: **07° 25' 34"** **29° 29' 18"** Close Star: SAO-151881 (Sirius) Catalog Objects: NGC-2371 Imaging Window: **07:54 – 12:08** Transit: **08:33 | 86°**	**C-11 HD: Primary Focus x2** 

Prospective Imaging Objects – March 10 2024

Medusa Nebula (Abell 21)

Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

Constellation: **Gemini**
Coordinates:
07h 29’ 00”
13° 15’ 00”

Close Star: **SAO-115756** (Procyon)
Catalog Objects: Abell 21

Imaging Window: **07:54 – 11:37**
Transit: **08:37 | 70°**

C-11 HD: Primary Focus

Eskimo Nebula (NGC-2392)

Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

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

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

Imaging Window: **07:54 – 11:55**
Transit: **08:37 | 70°**

C-11 HD: Primary Focus

M-47 (NGC-2422)

Config: |C11HD|ZWO6200MC|

Type: **Open Cluster**

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

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

Imaging Window: ***07:54 – 11:18**
Transit: **08:44 | 42°**

C-11 HD: Primary Focus

Prospective Imaging Objects – March 10 2024

NGC-2403
Config: |C11HD|ZWO6200MC|

Type: **Barred Spiral Galaxy**

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

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

Imaging Window: **07:54 – 12:19**
Transit: **08:45 | 58°**

C-11 HD: Primary Focus

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

Type: **Globular Cluster**

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

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

Imaging Window: **07:54 – 12:33**
Transit: **08:46 | 84°**

C-11 HD: Primary Focus

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

Type: **Open Cluster with PN**

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

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

Imaging Window: ***07:54 – 11:12**
Transit: **08:50 | 42°**

C-11 HD: Primary Focus

Prospective Imaging Objects – March 10 2024

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

Type: **Planetary Nebula**

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

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

Imaging Window: ***07:54 – 11:40**
Transit: **08:50 | 38°**

C-11 HD: Primary Focus x2

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

Type: **Open Cluster**

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

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

Imaging Window: ***07:54 – 11:07**
Transit: **08:52 | 33°**

C-11 HD: Primary Focus

M-48 (NGC-2548)
Config: |C11HD|ZWO6200MC|

Type: **Open Cluster**

Constellation: **Hydra**
Coordinates:
08h 13’ 46”
-05° 46’ 05”

Close Star: **SAO-115756** (Procyon)
Catalog Objects: M-48/NGC-2548

Imaging Window: ***07:54 – 12:08**
Transit: **09:21 | 51°**

C-11 HD: Primary Focus

Prospective Imaging Objects – March 10 2024

NGC-2610
Config: **C11-HD | HS | ZWO6200MC**

Type: **Planetary Nebula**

Constellation: **Hydra**
Coordinates:
08h 33’ 23”
-16° 08’ 55”

Close Star: **SAO-151881** (Sirius)
Catalog Objects: NGC-2610
Imaging Window: ***07:54 – 12:02**
Transit: **09:41 | 41°**

C-11 HD: Primary Focus x2

Beehive Cluster (NGC-2632)
Config: **C11-HD | HS | ZWO6200MC**

Type: **Open Cluster**

Constellation: **Cancer**
Coordinates:
08h 39’ 59”
19° 39’ 01”

Close Star: **SAO-115756** (Procyon)
Catalog Objects: M-44/NGC-2632

Imaging Window: **07:54 – 01:04**
Transit: **09:48 | 76°**

C-11 HD: HyperStar v4

M-67 (NGC-2682)
Config: |C11HD|ZWO6200MC|

Type: **Open Cluster**

Constellation: **Cancer**
Coordinates:
08h 51’ 18”
11° 48’ 60”

Close Star: **SAO-115756** (Procyon)
Catalog Objects: M-67/NGC-2682

Imaging Window: **07:54 – 12:55**
Transit: **09:59 | 68°**

C-11 HD: Primary Focus

Prospective Imaging Objects – March 10 2024

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: **07:54 – 01:52**
Transit: **10:03 | 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: **07:54 – 02:00**
Transit: **10:40 | 78°**

C-11 HD: Primary Focus

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: **07:54 – 02:20**
Transit: **11:03 | 54°**

C-11 HD: HyperStar v4

Prospective Imaging Objects – March 10 2024

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: **07:54 – 02:20**
Transit: **11:03 | 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: **07:54 – 02:23**
Transit: **11:03 | 54°**

C-11 HD: Primary Focus

Cigar Galaxy (M-82)
Config: |C11HD|ZWO6200MC|

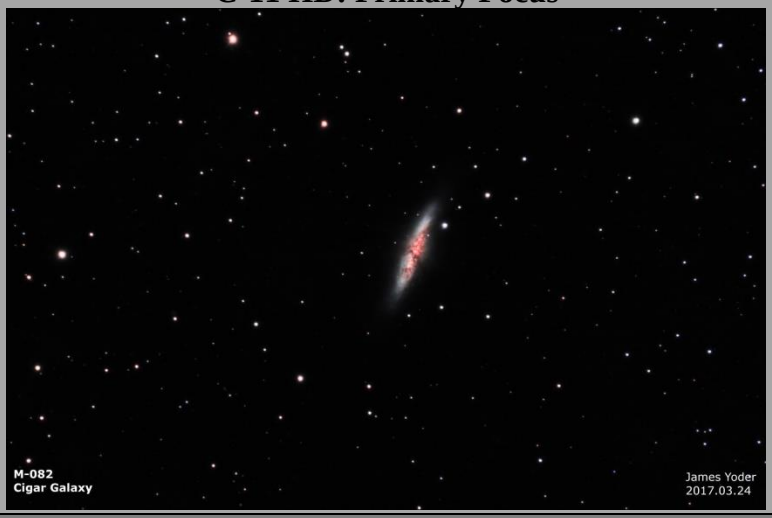
Type: **Galaxy**

Constellation: **Ursa Major**
Coordinates:
09h 55' 57.451"
69° 42' 37.646"

Close Star: **SAO-15384**
Catalog Objects: M-82/NGC-3034

Imaging Window: **07:54 – 02:20**
Transit: **11:03 | 54°**

C-11 HD: Primary Focus



Prospective Imaging Objects – March 10 2024

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: ***07:54 – 02:48**
Transit: **11:13 | 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: **08:24 – 02:13**
Transit: **11:16 | 69°**

C-11 HD: Primary Focus

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: **09:00 – 01:48**
Transit: **11:21 | 60°**

C-11 HD: Primary Focus

Prospective Imaging Objects – March 10 2024

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: **08:11 – 02:46**
Transit: **11:25 | 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: **07:54 – 03:15**
Transit: **11:26 | 82°**

C-11 HD: Primary Focus

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: **08:20 – 02:47**
Transit: **11:31 | 77°**

C-11 HD: Primary Focus

Prospective Imaging Objects – March 10 2024

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: ***08:48 – 02:21**
Transit: **11:32 | 38°**

C-11 HD: Primary Focus

Galaxy Group 2574

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

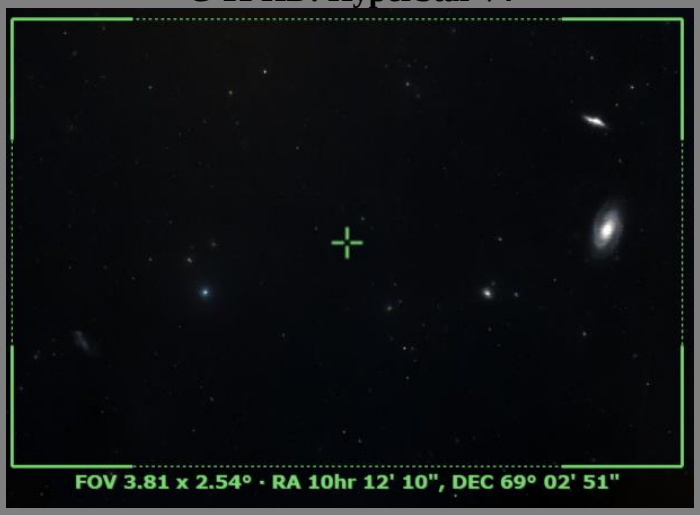
Type: **Galaxy Group**

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

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

Imaging Window: **08:18 – 03:00**
Transit: **11:36 | 55°**

C-11 HD: HyperStar v4



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: **08:18 – 03:00**
Transit: **11:36 | 55°**

C-11 HD: Primary Focus

Prospective Imaging Objects – March 10 2024

Leo Galaxy Group (M-96, M95 et al.)
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: **09:04 – 02:50**
Transit: **11:54 | 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: **09:02 – 02:47**
Transit: **11:51 | 68°**

C-11 HD: Focal Reducer

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: **09:03 – 02:53**
Transit: **11:55 | 69°**

C-11 HD: Primary Focus

Prospective Imaging Objects – March 10 2024

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: **08:51 – 03:52**
Transit: **12:18 | 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: **08:33 – 04:11**
Transit: **12:19 | 68°**

C-11 HD: HyperStar v4

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

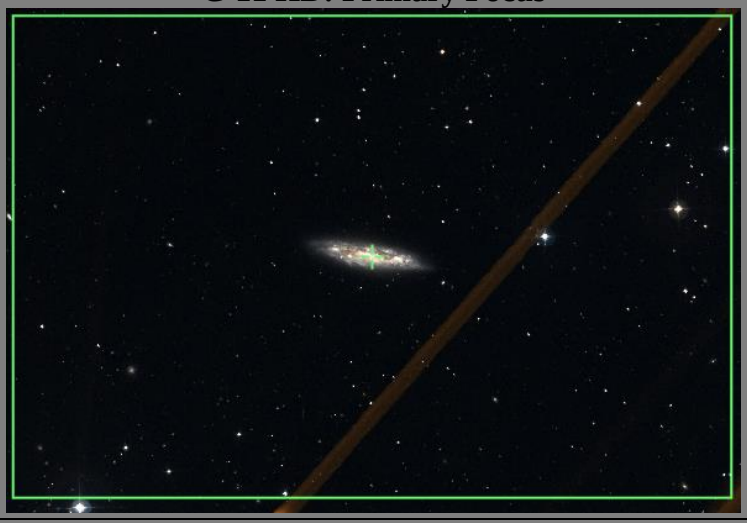
Type: **Irregular Galaxy**

Constellation: **Ursa Major**
Coordinates:
11h 11' 29"
55° 40' 22"

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

Imaging Window: **08:33 – 04:11**
Transit: **12:19 | 68°**

C-11 HD: Primary Focus



Prospective Imaging Objects – March 10 2024

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: **08:36 – 04:15**
Transit: **12:22 | 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: **08:36 – 04:15**
Transit: **12:22 | 68°**

C-11 HD: Primary Focus *x2

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: **09:33 – 03:29**
Transit: **12:27 | 70°**

C-11 HD: Focal Reducer
Composite!

Prospective Imaging Objects – March 10 2024

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: **09:33 – 03:29**
Transit: **12:27 | 70°**

C-11 HD: Primary Focus

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: **09:34 – 03:27**
Transit: **12:27 | 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: **08:53 – 04:33**
Transit: **12:40 | 70°**

C-11 HD: Primary Focus

Prospective Imaging Objects – March 10 2024

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: **09:30 – 04:06** Transit: **12:45 | 79°**	**C-11 HD: Primary Focus** 
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: **09:42 – 04:09** Transit: **12:52 | 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: ***09:38 – 04:17** Transit: **12:54 | 53°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – March 10 2024

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: **09:18 – 04:58**
Transit: **01:05 | 70°**

C-11 HD: Primary Focus

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: ***10:28 – 03:49**
Transit: **01:07 | 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: ***10:28 – 03:55**
Transit: **01:09 | 38°**

C-11 HD: Primary Focus

Prospective Imaging Objects – March 10 2024

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: **10:23 – 04:26**
Transit: **01:21 | 72°**

C-11 HD: Primary Focus

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: **10:12 – 04:42**
Transit: **01:24 | 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: **09:45 – 05:11**
Transit: **01:25 | 86°**

C-11 HD: Primary Focus

Prospective Imaging Objects – March 10 2024

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: **10:29 – 04:30**
Transit: **01:26 | 71°**

C-11 HD: Primary Focus

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: **09:39 – 05:19**
Transit: **01:26 | 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: **09:39 – 05:19**
Transit: **01:26 | 76°**

C-11 HD: Focal Reducer

Prospective Imaging Objects – March 10 2024

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: **11:04 – 04:00**
Transit: **01:29 | 61°**

C-11 HD: Primary Focus

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: **09:45 – 05:20**
Transit: **01:29 | 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: **10:29 – 04:37**
Transit: **01:30 | 73°**

C-11 HD: Primary Focus

Prospective Imaging Objects – March 10 2024

NGC-4361

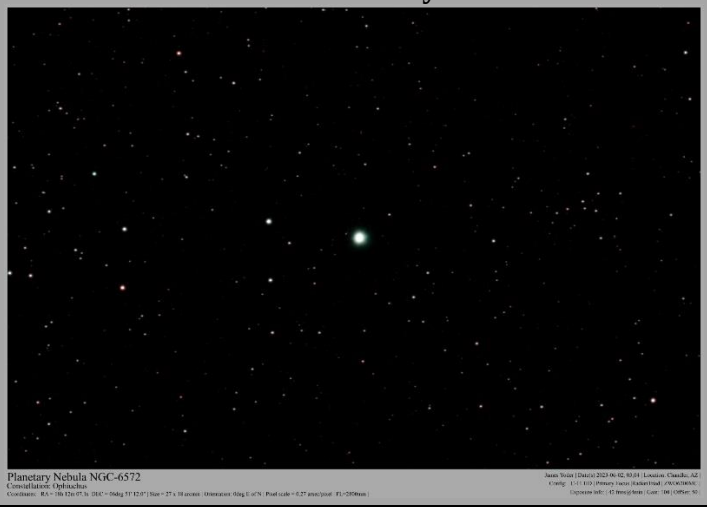
Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

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

Close Star: **SAO-157176** (Gienah Corvi)
Catalog Objects: NGC-4361
Imaging Window: ***10:50 – 04:17**
Transit: **01:31 | 38°**

C-11 HD: Primary Focus



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: **10:39 – 04:32**
Transit: **01:32 | 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: **10:39 – 04:32**
Transit: **01:32 | 70°**

C-11 HD: HyperStar v4

Prospective Imaging Objects – March 10 2024

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: **10:39 – 04:32** Transit: **01:32 | 70°**	**C-11 HD: Focal Reducer** 
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: **09:50 – 05:21** Transit: **01:35 | 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: **10:59 – 04:21** Transit: **01:37 | 65°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – March 10 2024

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: **10:47 – 04:36**
Transit: **01:38 | 69°**

C-11 HD: Primary Focus

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: **09:54 – 05:21**
Transit: **01:38 | 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: ***08:37 – 05:21**
Transit: **01:40 | 41°**

C-11 HD: Primary Focus

Prospective Imaging Objects – March 10 2024

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: **10:45 – 04:46** Transit: **01:42 | 71°**	**C-11 HD: Focal Reducer** 
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: **10:45 – 04:46** Transit: **01:42 | 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: **10:51 – 04:41** Transit: **01:43 | 69°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – March 10 2024

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: **10:17 – 05:16**
Transit: **01:43 | 85°**

C-11 HD: Primary Focus

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: **10:56 – 04:38**
Transit: **01:43 | 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: **10:21 – 05:13**
Transit: **01:43 | 83°**

C-11 HD: Primary Focus

Prospective Imaging Objects – March 10 2024

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: **10:50 – 04:44**
Transit: **01:44 | 70°**

C-11 HD: Primary Focus

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: **10:55 – 04:41**
Transit: **01:45 | 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: **10:55 – 04:41**
Transit: **01:45 | 69°**

C-11 HD: Primary Focus

Prospective Imaging Objects – March 10 2024

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: ***12:08 – 03:38**
Transit: **01:46 | 30°**

C-11 HD: Primary Focus

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: ***11:35 – 04:00**
Transit: **01:47 | 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: **10:16 – 05:21**
Transit: **01:49 | 89°**

C-11 HD: Focal Reducer

Prospective Imaging Objects – March 10 2024

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: **11:00 – 04:45**
Transit: **01:49 | 68°**

C-11 HD: Focal Reducer

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: **10:23 – 05:21**
Transit: **01:53 | 87°**

C-11 HD: Primary Focus

NGC-4725 (PGC-43451)

Config: |C11-HD|FR|ZWO6200MC|

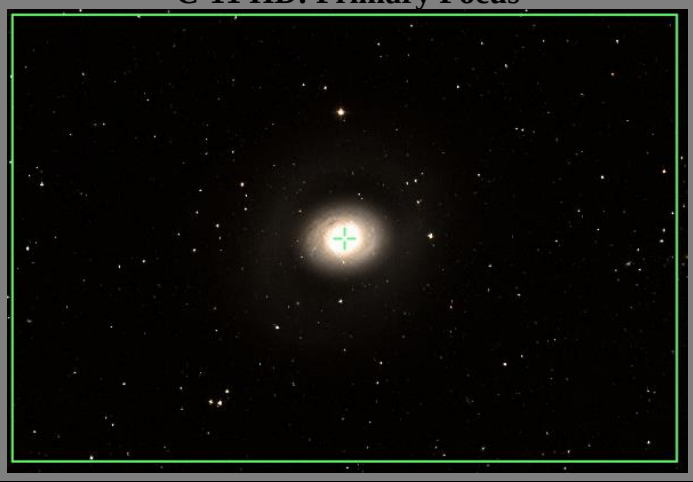
Type: **Galaxy group**

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: **10:36 – 05:21**
Transit: **01:57 | 82°**

C-11 HD: Focal Reducer

Prospective Imaging Objects – March 10 2024

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: **10:36 – 05:21** Transit: **01:57 | 82°**	**C-11 HD: Primary Focus** 
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: **10:15 – 05:21** Transit: **01:58 | 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: ***11:18 – 04:39** Transit: **01:58 | 50°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – March 10 2024

NGC-4762, 4754 (PGC-43733)

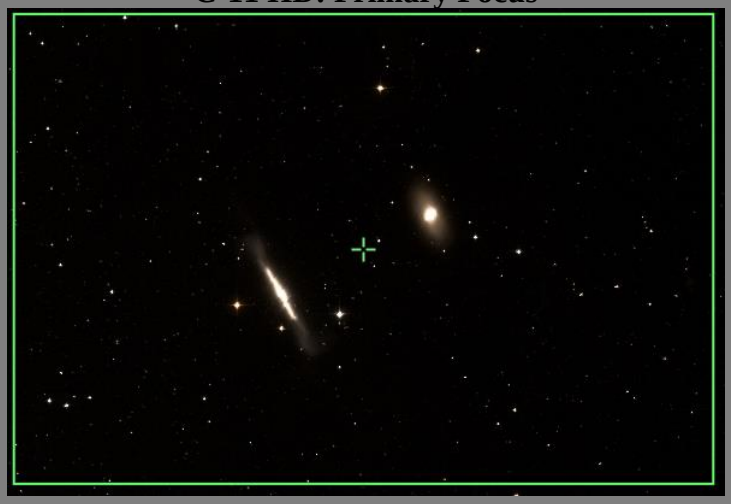
Config: |C11HD|ZWO6200MC|

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: **11:12 – 04:55**
Transit: **02:00 | 68°**

C-11 HD: Primary Focus



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: **10:50 – 05:21**
Transit: **02:04 | 78°**

C-11 HD: Primary Focus

Coma Galaxy Cluster (Abell-1656)

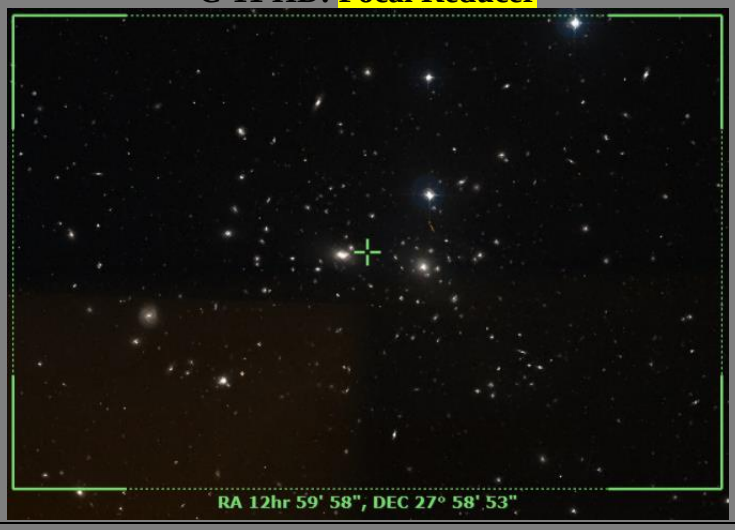
Config: |C11-HD|FR|ZWO6200MC|

Type: **Galaxy Cluster**

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

Close Star: **SAO-99809** (Denebola)
Catalog Objects: Abell-1656
Imaging Window: **10:41 – 05:21**
Transit: **02:07 | 85°**

C-11 HD: Focal Reducer



Prospective Imaging Objects – March 10 2024

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: **10:41 – 05:21**
Transit: **02:07 | 85°**

C-11 HD: Primary Focus

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: **11:14 – 05:21**
Transit: **02:20 | 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: **10:42 – 05:21**
Transit: **02:20 | 87°**

C-11 HD: Primary Focus

Prospective Imaging Objects – March 10 2024

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: **10:39 – 05:21**
Transit: **02:23 | 81°**

C-11 HD: Primary Focus

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: **11:18 – 05:21**
Transit: **02:23 | 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: **10:50 – 05:21**
Transit: **02:37 | 76°**

C-11 HD: Primary Focus

Prospective Imaging Objects – March 10 2024

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: **11:23 – 05:21**
Transit: **02:49 | 85°**

C-11 HD: Primary Focus *x2

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: **11:27 – 05:21**
Transit: **03:05 | 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: **11:24 – 05:21**
Transit: **03:10 | 69°**

C-11 HD: Primary Focus

Prospective Imaging Objects – March 10 2024

NGC-5466

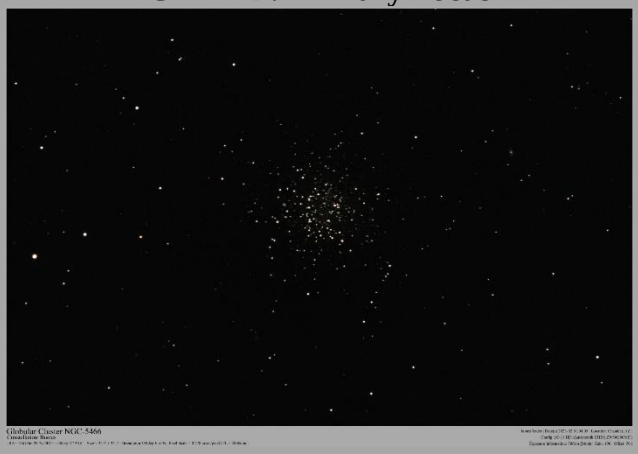
Config: |C11HD|Barlow x2|ZWO6200MC|

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

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

Imaging Window: **11:46 – 05:21**
Transit: **03:12 | 85°**

C-11 HD: Primary Focus



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: **12:28 – 05:21**
Transit: **04:13 | 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: **12:36 – 05:21**
Transit: **04:22 | 68°**

C-11 HD: Primary Focus

Prospective Imaging Objects – March 10 2024

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: **12:38 – 05:21** Transit: **04:22 | 68°**	**C-11 HD: Primary Focus** 
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: **02:11 – 05:21** Transit: **04:25 | 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: **01:04 – 05:21** Transit: **04:46 | 64°**	**C-11 HD: Primary Focus** 

Prospective Imaging Objects – March 10 2024

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

Type: **Diffuse Nebula**

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

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

Imaging Window: ***03:16 – 05:21**
Transit: **05:05 | 31°**

C-11 HD: HyperStar v4

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

Type: **Galaxy Group & One**

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

Close Star: **SAO-83893**
Catalog Objects: NGC-6027A-E, UGC-10127
Imaging Window: **01:54 – 05:21**
Transit: **05:06 | 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: **02:07 – 05:21**
Transit: **05:12 | 74°**

C-11 HD: Primary Focus

Prospective Imaging Objects – March 10 2024

NGC-6058

Config: |C11HD|ZWO6200MC|

Type: **Planetary Nebula**

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

Close Star: **SAO-100944** (Arcturus)
Catalog Objects: NGC-6058
Imaging Window: **01:29 – 05:21**
Transit: **05:11 | 83°**

C-11 HD: Primary Focus

Tadpole Galaxy (Arp-188)

Config: |C11HD|ZWO6200MC|

Type: **Galaxy**

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

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

Imaging Window: **01:27 – 05:21**
Transit: **05:12 | 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: **02:28 – 05:21**
Transit: **05:18 | 69°**

C-11 HD: Primary Focus *x2

Prospective Imaging Objects – March 10 2024

Blue Horshead (IC-4592) Config: **C11-HD | HS | ZWO6200MC** Type: **Bright Nebula** Constellation: **Scorpius** Coordinates: **16h 14’ 15”** **-19° 17’ 16”** Close Star: **SAO-184415** (Antares) Catalog Objects: IC-4592 Imaging Window: ***03:22 – 05:21** Transit: **05:19 | 37°**	**C-11 HD: HyperStar v4** 

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Prospective Imaging Objects – March 10 2024

Imaging Summary March 10, 2024

Astronomical Dusk = 07:54 Astronomical Dawn = 05:21

HyperStar: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Nebula	Nebula	IC-2177	*07:54-11:07	08:12	02	Rot90 Monoceros: Seagull Nebula
HyperStar	Nebula	Nebula	SH2-1	*03:16-05:21	05:05	38	Scorpius: Diffuse Nebula
HyperStar	Nebula	Nebula	IC-4592	*03:22-05:21	05:19	40	Scorpius: Blue Horsehead Nebula

HyperStar: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
HyperStar	Broad Spectrum	OC	NGC-2632	07:54 – 01:04	09:48	08	Cancer: Beehive Cluster
HyperStar	Broad Spectrum	Galaxies	M-81 & M-82	07:54 – 02:20	11:03	09	Ursa Major: Galaxy Pair M-81 & M-82
HyperStar	Broad Spectrum	Galaxies	IC-2574	08:18 – 03:00	11:36	13	Leo: Galaxy Group 2574
HyperStar	Broad Spectrum	Galaxies	M-96, 95 Et El	09:04 – 02:50	11:54	14	Leo: Leo Galaxy Group
HyperStar	Broad Spectrum	Gal, PN	M108 & NGC3587	08:33 – 04:11	12:19	15	Ursa Major: M104 and Owl Nebula
HyperStar	Broad Spectrum	Galaxies	Galaxy Group 106	09:39 – 05:19	01:26	21	Canes Venatici: Galaxy Group M-106
HyperStar	Broad Spectrum	Galaxies	Markarian Chain	10:39 – 04:32	01:32	23	Virgo: Galaxy Chain
HyperStar	Broad Spectrum	Galaxies	Markarian Chain2	10:39 – 04:32	01:32	23	Virgo: Galaxy Chain2
HyperStar	Broad Spectrum	Galaxies	Galaxy Group 58	10:55 – 04:41	01:45	28	Virgo Galaxy Group M-58

Prospective Imaging Objects – March 10 2024

Imaging Summary March 10, 2024

Astronomical Dusk = 07:54 Astronomical Dawn = 05:21

Focal Reducer: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments

Focal Reducer: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Focal Reducer	Broad Spectrum	Galaxies	UGC-3697	07:54 – 11:20	08:19	03	Camelopardalis: Integral Sign Galaxy
Focal Reducer	Broad Spectrum	Galaxies	M-81 & M-82	07:54 – 02:20	11:03	10	Rot90° Ursa Major: Galaxy Pair Bode's Cigar
Focal Reducer	Broad Spectrum	Galaxies	M-95 & M-96	09:02 – 02:47	11:51	14	Leo: Galaxy Pair
Focal Reducer	Broad Spectrum	Galaxies	M65, et. El.	09:33 – 03:29	12:27	16	Comp2! Leo Trio of galaxies (M65, M66, NGC3628)
Focal Reducer	Broad Spectrum	Galaxies	M-106, NGC4248	09:39 – 05:19	01:26	21	Canes Venatici: Galaxies
Focal Reducer	Broad Spectrum	Galaxies	M-84 et. El.	10:39 – 04:32	01:32	24	Virgo: Markarians Chain
Focal Reducer	Broad Spectrum	Galaxies	M-91, NGC4548	10:45 – 04:46	01:42	26	Coma Berenices: Galaxy Pair
Focal Reducer	Broad Spectrum	Galaxies	NGC4631, 4656	10:16 – 05:21	01:49	29	Canes Venatici: Whale and Hockey Stick
Focal Reducer	Broad Spectrum	Galaxies	M-59, M-60	11:00 – 04:45	01:49	30	Virgo: Galaxy Group
Focal Reducer	Broad Spectrum	Galaxies	NGC-4725 et. El.	10:36 – 05:21	01:57	30	Coma Berenices Galaxy Group
Focal Reducer	Broad Spectrum	Galaxies	Abell-1656	10:45 – 05:21	02:07	32	Coma Berenices: Coma Galaxy Cluster

Prospective Imaging Objects – March 10 2024

Imaging Summary March 10, 2024

Astronomical Dusk = 07:54 Astronomical Dawn = 05:21

Primary Focus: Nebula

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Nebula	Nebula	IC-2177	*07:54-11:07	08:12	03	Monoceros: Seagull Nebula Head
Primary Focus	Nebula	Nebula	NGC-2346	*07:54-11:51	08:17	03	Monoceros: Hourglass Nebula
Primary Focus	Nebula	Nebula	NGC-2359	*07:54-11:07	08:26	04	Canis Major: Thor's Helmet
Primary Focus	Nebula	Nebula	NGC-2371	07:54 – 12:08	08:33	04	Gemini: Candy Wrapper Nebula
Primary Focus	Nebula	Nebula	Abell 21	07:54 – 11:37	08:36	05	Gemini: Medusa Nebula
Primary Focus	Nebula	Nebula	NGC-2392	07:54 – 11:55	08:37	05	Gemini: Eskimo Nebula
Primary Focus	Nebula	PN	M-46	*07:54-11:12	08:50	06	Puppis: Open Cluster with PN
Primary Focus	Nebula	Nebula	NGC-2440	*07:54-11:40	08:50	07	Puppis: Bow-Tie Nebula
Primary Focus	Nebula	PN	NGC-2610	*07:54-12:02	09:41	08	Hydra: Small PN
Primary Focus	Nebula	PN	NGC-3242	*08:48-02:21	11:32	13	Hydra: Ghost of Jupiter
Primary Focus	Nebula	PN	M-97	08:36 – 04:15	12:22	16	Ursa Major: Owl Nebula
Primary Focus	Nebula	PN	NGC-4361	*10:50-04:17	01:31	23	Corvus: Small Planetary Nebula
Primary Focus	Nebula	PN	IC-3568	*08:37-05:21	01:40	25	Camelopardalis: Lemon Slice Nebula
Primary Focus	Nebula	PN	NGC-6058	01:29 – 05:21	05:11	39	Hercules: Small PN
Primary Focus	Nebula	PN	IC-4593	02:28 – 05:21	05:18	39	Hercules: White Eyed Pea

Prospective Imaging Objects – March 10 2024

Imaging Summary March 10, 2024

Astronomical Dusk = 07:54 Astronomical Dawn = 05:21

Primary Focus: Broad Spectrum

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	OC	M-41	*07:54-09:49	07:54	02	Canis Major: Open Cluster NGC-2287
Primary Focus	Broad Spectrum	OC	M-50	*07:54-11:12	08:11	02	Monoceros: Open Cluster NGC-2323
Primary Focus	Broad Spectrum	Galaxies	UGC-3697	07:54 – 11:20	08:19	04	Camelopardalis: Integral Sign Galaxy UGC-3697
Primary Focus	Broad Spectrum	OC	M-47	*07:54-11:18	08:44	05	Puppis: Open Cluster NGC-2422
Primary Focus	Broad Spectrum	Galaxy	NGC-2403	07:54 – 12:19	08:45	06	Camelopardalis: Barred Spiral Face on Galaxy
Primary Focus	Broad Spectrum	GC	NGC-2419	07:54 – 12:33	08:46	06	Lynx: Intergalactic Wanderer
Primary Focus	Broad Spectrum	OC	M-93	*07:54-11:07	08:52	07	Puppis: Butterfly Cluster NGC-2447
Primary Focus	Broad Spectrum	OC	M-48	*07:54-12:08	09:21	07	Hydra: Open Cluster NGC-2548
Primary Focus	Broad Spectrum	OC	M-67	07:54 – 12:55	09:59	08	Cancer: Open Cluster NGC-2682
Primary Focus	Broad Spectrum	Galaxy	NGC-2685	07:54 -01:52	10:03	09	Ursa Major: Helix Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-2903	07:54 – 02:00	10:40	09	Leo: Med Face On Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-81	07:54 – 02:23	11:03	10	Ursa Major: Bode's Nebula
Primary Focus	Broad Spectrum	Galaxy	M-82	07:54 – 02:20	11:03	10	Ursa Major: Cigar Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-3115	*07:54–02:48	11:13	11	Sextans: Spindle Galaxy
Primary Focus	Broad Spectrum	Galaxy	UGC-5470	08:24 – 02:13	11:16	11	Leo: Powder keg Galaxy UGC-5470
Primary Focus	Broad Spectrum	Galaxies	NGC-3166, 3169	09:00 – 01:48	11:21	11	Sextans: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	Hickson 44	08:11 – 02:46	11:25	12	Leo: Galsxy Group NGC-3190, 3189
Primary Focus	Broad Spectrum	Galaxy	NGC-3184	07:54 – 03:15	11:26	12	Ursa Major: Med Face On Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-3227, 3226	08:20 – 02:47	11:31	12	Leo: Interacting Galaxies
Primary Focus	Broad Spectrum	Galaxy	IC-2574	08:18 – 03:00	11:36	13	Leo: Coddington's Nebula
Primary Focus	Broad Spectrum	Galxies	NGC-3379 et. El.	09:03 – 02:53	11:55	14	Leo: Leo Trio 2 of galaxies
Primary Focus	Broad Spectrum	Galaxies	NGC-3561 et. El	08:51 – 03:52	12:18	15	Ursa Major: Abartsumian's Knote et. El.
Primary Focus	Broad Spectrum	Galaxy	M-108	08:33 – 04:11	12:19	15	Ursa Major: Irregular Galaxy

Prospective Imaging Objects – March 10 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	NGC-3628	09:33 – 03:29	12:26	17	Leo: Edge on Galalaxy
Primary Focus	Broad Spectrum	Galaxies	M-65, M-66	09:34 – 03:27	12:27	17	Leo: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	Arp-214	08:53 – 04:33	12:40	17	Ursa Major: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	NGC-3745 et. El	09:30 – 04:06	12:45	18	Leo: Copeland's Septet
Primary Focus	Broad Spectrum	Galaxies	Abell-1367	09:42 – 04:09	12:52	18	Leo: Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxies	Arp-248	*09:38-04:17	12:54	18	Ursa Major: Wild's Triplet
Primary Focus	Broad Spectrum	Galaxy	M-109	09:18 – 04:58	01:05	19	Ursa Major: Face on med spiral galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4027	*10:28-03:49	01:07	19	Corvus: Irregular galaxy
Primary Focus	Broad Spectrum	Galaxies	Arp-244	*10:28-03:55	01:09	19	Corvus: Antennae Galaxies
Primary Focus	Broad Spectrum	Galaxy	M-98	10:23 – 04:26	01:21	20	Cooma Beerenices: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4236	10:12 – 04:42	01:24	20	Draco: Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4244	09:45 – 05:11	01:25	20	Canes Venatici: Silver Needle
Primary Focus	Broad Spectrum	Galaxy	M-99	10:29 – 04:30	01:26	21	Coma Berenices: St. Katherines Wheel
Primary Focus	Broad Spectrum	Galaxy	M-61	11:04 – 04:00	01:29	22	Virgo: Face on Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	M-40	09:45 – 05:20	01:29	22	Ursa Major: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	M-100	10:29 – 04:37	01:30	22	Coma Berenices: Set of Galaxies
Primary Focus	Broad Spectrum	Galaxy	NGC-4449	09:50 – 05:21	01:35	24	Canes Venatici: Interesting Irregular Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-49	10:59 – 04:21	01:37	24	Virgo: Elliptical Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-87	10:47 – 04:36	01:38	25	Virgo: Virgo A Elliptical Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-4490	09:54 – 05:21	01:38	25	Canes Venatici: Interacting Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	M-91	10:45 – 04:46	01:42	26	Coma Berenices: Galaxy Pair
Primary Focus	Broad Spectrum	Galaxies	M-89 et. El	10:51 – 04:41	01:43	26	Virgo: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	NGC-4559	10:17 – 05:16	01:43	27	Coma Berenices: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-4567	10:56 – 04:38	01:43	27	Virgo: Siamese Twins et. El.
Primary Focus	Broad Spectrum	Galaxy	NGC-4565	10:21 – 05:13	01:43	27	Coma Berenices: Needle Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-90	10:50 – 04:44	01:44	28	Virgo: Med Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-58	10:55 – 04:41	01:45	28	Virgo: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Globular	M-68	*12:08-03:38	01:46	29	Hydra: Med Globular

Prospective Imaging Objects – March 10 2024

Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
Primary Focus	Broad Spectrum	Galaxy	M-104	*11:35-04:00	01:47	29	Virgo: Sombrero Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4676 A&B	10:23 – 05:21	01:53	30	Coma Berenices: The Mice
Primary Focus	Broad Spectrum	Galaxies	NGC-4725	10:36 – 05:21	01:57	31	Coma Berenices: Galaxy Group
Primary Focus	Broad Spectrum	Galaxy	M-94	10:15 – 05:21	01:58	31	Canes Venatici: Med Galaxy
Primary Focus	Broad Spectrum	Galaxy	NGC-4731	*11:18-04:39	01:58	31	Virgo: Barred Spiral Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-4762, 4754	11:12 – 04:55	02:00	32	Virgo: Edge on and other Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-64	10:50 – 05:21	02:04	32	Coma Berenices: Black Eye Galaxy
Primary Focus	Broad Spectrum	Galaxies	Abell-1656	10:41 – 05:21	02:07	33	Coma Berenices: Coma Galaxy Cluster
Primary Focus	Broad Spectrum	Globular	M-53	11:14 – 05:21	02:20	33	Coma Berenices: Med Globular
Primary Focus	Broad Spectrum	Galaxy	NGC-5033	10:42 – 05:21	02:20	33	Canes Venatici: Med Face on Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-63	10:39 – 05:21	02:23	34	Canes Venatici: Med Face on Galaxy
Primary Focus	Broad Spectrum	Globular	NGC-5053	11:18 – 05:21	02:23	34	Coma Berenices Large open Globular
Primary Focus	Broad Spectrum	Galaxy	M-51	10:50 – 05:21	02:37	34	Canes Venatici: Whirlpool Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-3	11:23 – 05:21	02:49	35	Canes Venatici: Large Globular
Primary Focus	Broad Spectrum	Galaxy	NGC-5395	11:27 – 05:21	03:05	35	Canes Venatici: Heron Galaxy
Primary Focus	Broad Spectrum	Galaxy	M-101	11:24 – 05:21	03:10	35	Ursa Major: Pinwheel Galaxy
Primary Focus	Broad Spectrum	Globular	NGC-5466	11:46 – 05:21	03:12	36	Bootes: Large open globular
Primary Focus	Broad Spectrum	Galaxy	M-102	12:28 – 05:21	04:13	36	Draco: Spindle Galaxy
Primary Focus	Broad Spectrum	Galaxies	NGC-5905, 5908	12:36 – 05:21	04:22	36	Draco: Face on and Edge on galaxy pair
Primary Focus	Broad Spectrum	Galaxy	NGC-5907	12:38 – 05:21	04:22	37	Draco: Splinter Galaxy
Primary Focus	Broad Spectrum	Globular	M-5	02:11 – 05:21	04:25	37	Serpens: Med Globular
Primary Focus	Broad Spectrum	Galaxies	NGC-5985, 81, 82	01:04 – 05:21	04:46	37	Draco: Draco Trio of galaxies
Primary Focus	Broad Spectrum	Galaxies	NGC-6027A-E	01:54 – 05:21	05:06	38	Serpens: Seyfert's Sextet
Primary Focus	Broad Spectrum	Galaxies	Abell-2151	02:07 – 05:21	05:12	38	Hercules: Hercules Galaxy Cluster
Primary Focus	Broad Spectrum	Galaxy	Arp-188	01:27 – 05:21	05:12	39	Draco: Tadpole Galaxy
Primary Focus	Broad Spectrum						
Primary Focus	Broad Spectrum						

Prospective Imaging Objects – March 10 2024

Imaging Summary March 10, 2024

Astronomical Dusk = 07:54 Astronomical Dawn = 05:21

Primary Prospects

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	HyperStar	Broadband	Galaxies	IC-2574 Et. El.	08:18 – 03:00	11:36	13	Leo: Galaxy Group 2574
	HyperStar	Broadband	Galaxies	M-106 et. El	09:39 – 05:19	01:26	21	Canes Venatici: Galaxy Group 106
	HyperStar	Broadband	Galaxies	M-84 Et. El	10:39 – 04:32	01:32	23	Virgo: Markarian Chain 2
	HyperStar	Broadband	Galaxies	M-58 Et. El	10:55 – 04:41	01:45	28	Virgo: Galaxy Group M-58
	HyperStar	Nebula	Nebula	SH2-1	*03:16 – 05:21	05:05	38	Scorpius: Blue Nebula
	Focal Reducer	Broadband	Galaxies	M-81, M-82	07:54 – 02:20	11:03	10	Rot Ursa Major: Bode's Cigar
	Focal Reducer	Broadband	Galaxies	M-84 et. El.	10:39 – 04:32	01:32	24	Virgo: Markarian's Chain
	Focal Reducer	Broadband	Galaxies	M-91	10:45 – 04:46	01:42	26	Coma Berenices: Galaxy Pair
	Focal Reducer	Broadband	Galaxies	Abell-1656	10:41 – 05:21	02:07	32	Coma Berenices: Coma Galaxy Cluster
	Primary Focus	Nebula	Nebula	IC-2177	*07:54 - 11:07	08:12	03	Monoceros: Seagull Nebula head
	Primary Focus	Broadband	Galaxy	UGC-3697	07:54 – 11:20	08:19	04	Camelopardalis: Integral Sign Galaxy
	Primary Focus	Nebula	Nebula	NGC-2359	*07:54 - 11:07	08:26	04	Canis Major: Thor's Helmet
	Primary Focus	Nebula	PN	NGC-2440	*07:54 - 11:40	08:50	07	Puppis: Bow-tie Nebula
	Primary Focus	Nebula	PN	NGC-2610	*07:54 - 12:02	09:41	08	Hydra: Sm/Med Planetary
	Primary Focus	Broadband	Galaxy	UGC-5470	08:24 – 02:13	11:16	11	Leo: Powder Keg Galscy
	Primary Focus	Broadband	Galaxies	NGC-3166, 3169	09:00 – 01:48	11:21	11	Sextans: Galaxy Pair
	Primary Focus	Broadband	Galaxies	NGC-3227, 3226	08:20 – 02:47	11:31	12	Leo: Interacting Galaxy Pair
	Primary Focus	Broadband	Galaxy	M-108	08:33 – 04:11	12:19	15	Ursa Major: Irregular Galaxy NGC-3555
	Primary Focus	Broadband	Galaxies	NGC-3746 Et. El.	09:30 – 04:06	12:45	18	Leo: Copeland's Septet
	Primary Focus	Broadband	Galaxies	Abell-1367	09:42 – 04:09	12:52	18	Leo: Abell 1367 Galaxy Group
	Primary Focus	Broadband	Galaxies	Arp-248	*09:38 - 04:17	12:54	18	Ursa Major: Wild's Triplet

Prospective Imaging Objects – March 10 2024

Plan	Configuration	Class	Type	Object	Imaging Window	Transit	Page Ref	Comments
	Primary Focus	Broadband	Galaxy	M-109	09:18 – 04:58	01:05	19	Ursa Major: Face on Spiral
	Primary Focus	Broadband	Galaxies	Arp-244	*10:28 - 03:55	01:09	19	Corvus: Antennae Galaxies
	Primary Focus	Broadband	Galaxy	M-98	10:23 – 04:26	01:21	20	Coma Berenices: Galaxy NGC-4192
	Primary Focus	Broadband	Galaxy	NGC-4244	09:45 – 05:11	01:25	20	Canes Venatici: Sliver Needle Galaxy
	Primary Focus	Broadband	Galaxy	M-99	10:29 – 04:30	01:26	21	Coma Berenices: St. Katherines Wheel
	Primary Focus	Broadband	Galaxies	M-100 et. El.	10:29 – 04:37	01:30	22	Coma Berenices: Galaxy Group 100
	Primary Focus	Broadband	Galaxy	NGC-4449	09:50 – 05:21	01:35	24	Canes Venatici: Irregular Galaxy
	Primary Focus	Broadband	Galaxies	NGC-4567 et. El.	10:56 – 04:38	01:43	27	Virgo: Siamese Twins
	Primary Focus	Broadband	Galaxy	M-58	10:55 – 04:41	01:45	28	Virgo: Barred Spiral Galaxy NGC-4579
	Primary Focus	Broadband	Globular	M-68	*12:08 – 03:38	01:46	29	Hydra: Med Globular
	Primary Focus	Broadband	Galaxies	NGC-4731	*11:18 – 04:39	01:58	31	Virgo: Face on Barred Spiral
	Primary Focus	Broadband	Galaxies	NGC-4762, 4754	11:12 – 04:55	02:00	32	Virgo: Galaxy Pair
	Primary Focus	Broadband	Galaxy	NGC-5033	10:42 – 05:21	02:20	33	Canes Venatici: Face on Galaxy PGC-45948
	Primary Focus	Broadband	Galaxies	NGC-5395 Et. El.	11:27 – 05:21	03:05	35	Canes Venatici: Heron Galaxy Et. El.
	Primary Focus	Broadband	Galaxies	Abell-2151	02:07 – 05:21	05:12	38	Hercules: Hercules Galaxy Cluster
	Primary Focus	Nebula	PN	NGC-6058	01:29 – 05:21	05:11	39	Hercules: Small Planetary nebula
	Primary Focus	Nebula	PN	IC-4593	02:28 – 05:21	05:18	39	Hercules: White Eyed Pea

Prospective Imaging Objects – March 10 2024

Imaging Summary March 10, 2024

Astronomical Dusk = 07:54 Astronomical Dawn = 05:21

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					