

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° x 4.58°	2.0	2.59"/pix (Undersampled)

How to use this document




The diagram illustrates the layout of an object entry. On the left, there is a text block with the following information:

- 02:** Object Name and catalog number: Sculptor Galaxy (NGC 253)
- 03:** Config: C11 | LF Corr | 128c
- 04:** Type: Galaxy
- 01:** Peak: Oct 02
- Constellation: Sculptor
- Coordinates: 00hr 47' 33" -25° 17' 15"
- 05:** Close Star: SAO-147420
- 06:** Catalog Objects: NGC 253
- 07:** Imaging Window: *10:44 – 02:44
- 08:** Transit: 12:48




 On the right, there is a thumbnail image of the Sculptor Galaxy (NGC 253) labeled "Primary Focus". The image has a grey background. Arrows from the numbered callouts point to the corresponding text elements.

- 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.




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<p>M-41 (NGC 2287) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster Constellation: Canis Major Coordinates: 06hr 46' 09" 20° 47' 35"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: M-41/NGC 2287</p> <p>Imaging Window: *07:54 – 09:49 Transit: 07:54 36°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-50 (NGC 2323) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster Constellation: Monoceros Coordinates: 07hr 02' 48" -08° 22' 33"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: M-50/NGC 2323</p> <p>Imaging Window: *07:54 – 11:12 Transit: 08:11 48°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Seagull Nebula (IC-2177) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Monoceros Coordinates: 07hr 06' 20" -11° 06' 56"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: IC-2177</p> <p>Imaging Window: *07:54 – 11:07 Transit: 08:12 46°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4 - 90° Rotation</p>  <p style="font-size: small; text-align: center;">Seagull Nebula (IC-2177, NGC-2327, NGC-2335, NGC-2343) James Webb Date: 2023-01-09 03:15:17 Location: Chandra 4.1 Config: C-11HD HyperStar V4 OpenBox L-Science M09-236 E-W: 675.0mm F/4.0 HRC Filter: H-alpha 67.27nm Size: 200x140 arcsec Orientation: 90deg E of N Pixel scale: 1.276 arcsec/pixel (1.04"/pix) Support Info: 00/Prism/Star Guide 3200 Offset: 100</p>




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<p>Seagull Nebula (IC 2177) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Peak: Constellation: Monoceros Coordinates: 07hr 04' 47" -10° 27' 49"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: IC 2177</p> <p>Imaging Window: *07:54 – 11:07 Transit: 08:12 46°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Hourglass Nebula (NGC-2346) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Peak: Constellation: Monoceros Coordinates: 07hr 09' 23" 00° 48' 22"</p> <p>Close Star: SAO-115756 (Procyon) Catalog Objects: NGC-2346</p> <p>Imaging Window: *07:54 – 11:51 Transit: 08:17 56°</p>	<p style="text-align: center;">C-11 HD: Primary Focus x2</p>  <p style="font-size: small;">Planetary Nebula NGC-2346 Constellation: Monoceros RA: 07h 09m 23.00s Dec: 00d 48m 22.00s Size: 25.7 x 17.1 arcmin Observed Mag: 6.45 (Diff. Limb: 8.25 arcmin) EL: 200mm Image taken: (Date): 2024-03-09 - 2024-03-09 Location: Florida, AZ Config: C11HD Primary Focus Filter: HRP Focal Reducer Camera: ZWO6200MC Exposure: 16s 1 x 2.000000000 Gain: 160 ISO: 50</p>
<p>Integral Sign Galaxy (UGC 3697) Config: C11HD FR ZWO6200MC </p> <p>Type: Galaxy Group Constellation: Camelopardalis Coordinates: 07hr 11' 40" 71° 56' 04"</p> <p>Close Star: SAO-40186 (Capella) Catalog Objects: UGC-3697, UGC-3714, UGC-3701</p> <p>Imaging Window: 07:54 – 11:20 Transit: 08:19 51°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 




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<p>Integral Sign Galaxy (UGC 3697) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Constellation: Camelopardalis Coordinates: 07hr 11' 50" 71° 48' 14"</p> <p>Close Star: SAO-40186 (Capella) Catalog Objects: UGC-3697, UGC-3714</p> <p>Imaging Window: 07:54 – 11:20 Transit: 08:19 51°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Thor's Helmet (NGC-2359) Config: C11HD ZWO6200MC </p> <p>Type: Diffuse Nebula Constellation: Canis Major Coordinates: 07h 18' 26.223" -13° 15' 29.563"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: NGC-2359/ Sh2-298/ LBN1041</p> <p>Imaging Window: *07:54 – 11:07 Transit: 08:26 43°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Thor's Helmet (NGC 2359) Constellation: Canis Major</p> <p style="font-size: x-small; text-align: right;"> Image taken: 2014.11.07 Location: University of Toronto, Canada, AZ Config: C11 Starizona L1.5 Corrector QHY128C Exposure: 100s 1000000/Starizona Canon EOS 5D Mark II </p>
<p>Candy Wrapper (NGC-2371) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Constellation: Gemini Coordinates: 07° 25' 34" 29° 29' 18"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: NGC-2371</p> <p>Imaging Window: 07:54 – 12:08 Transit: 08:33 86°</p>	<p style="text-align: center;">C-11 HD: Primary Focus x2</p>  <p style="font-size: x-small;">Candy Wrapper (NGC 2371) Constellation: Gemini</p> <p style="font-size: x-small; text-align: right;"> Image taken: 2014.11.07 Location: University of Toronto, Canada, AZ Config: C11 Starizona L1.5 Corrector QHY128C Exposure: 100s 1000000/Starizona Canon EOS 5D Mark II </p>

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<p>Medusa Nebula (Abell 21) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Gemini Coordinates: 07h 29' 00" 13° 15' 00"</p> <p>Close Star: SAO-115756 (Procyon) Catalog Objects: Abell 21</p> <p>Imaging Window: 07:54 – 11:37 Transit: 08:37 70°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Abell-21 (Medusa Nebula) James Yoder Data(s) 2023-01-25 20:27:50 Location: Chandler, AZ Constellation: Gemini Config: C-11 HD EPT Radon Ultra Filter QHY128C RA = 7h 29m 58.9s DEC = +13deg 15' 20.8" Size = 38.7 x 26.1 arcmin Orientation: 0 deg E of N Pixel scale = 0.579 arcsec/pixel FL = 5729mm Exposure Info: 480img/20min Gain: 2200 Offset: 100</p>
<p>Eskimo Nebula (NGC-2392) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Gemini Coordinates: 07h 29' 11" 20° 54' 45"</p> <p>Close Star: SAO-79666 (Pollux) Catalog Objects: NGC-2392</p> <p>Imaging Window: 07:54 – 11:55 Transit: 08:37 70°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">NGC-2392 (Eskimo Nebula) James Yoder Data(s) 2020-12-09 Location: Chandler, AZ Constellation: Gemini Config: C-11 HD EPT Trans 1.3ra ZWO6200MC RA = 07h 29m 11.5s DEC = +20deg 54' 33.6" Size = 18.5 x 13.9 arcmin Orientation: 0 deg E of N Pixel scale = 0.278 arcsec/pixel FL = 2000mm Exposure Info: 44 img/20min Gain: 100 Offset: 50</p>
<p>M-47 (NGC-2422) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Puppis Coordinates: 07h 36' 36" -14° 32' 19"</p> <p>Close Star: SAO-79666 (Pollux) Catalog Objects: M-47/NGC-2422</p> <p>Imaging Window: *07:54 – 11:18 Transit: 08:44 42°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 



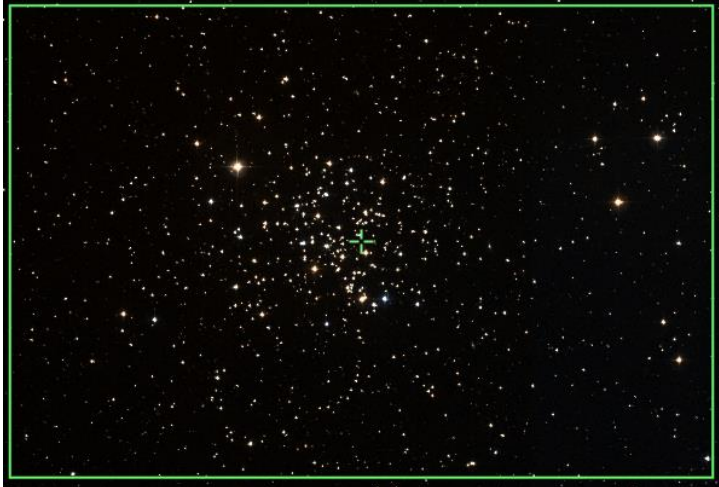
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<p>NGC-2403 Config: C11HD ZWO6200MC </p> <p>Type: Barred Spiral Galaxy</p> <p>Constellation: Camelopardalis Coordinates: 07h 36' 51" 65° 36' 06"</p> <p>Close Star: SAO-79666 (Pollux) Catalog Objects: NGC-2403</p> <p>Imaging Window: 07:54 – 12:19 Transit: 08:45 58°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;"><small>Galaxy NGC-2403 (Caldwell 7) Constellation: Camelopardalis Size: 10.5' x 11.5' (approx. 10.5' x 11.5') Date: 2024-01-23 Time: 07:54 - 12:19 Filter: None Gain: 1000 Offset: 0 Scale: 0.25 arcsec/pixel Resolution: 0.25 arcsec</small></p>
<p>Intergalactic Wanderer (NGC-2419) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Lynx Coordinates: 07h 38' 09" 38° 52' 57"</p> <p>Close Star: SAO-79666 (Pollux) Catalog Objects: NGC-2419</p> <p>Imaging Window: 07:54 – 12:33 Transit: 08:46 84°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;"><small>Intergalactic Wanderer (NGC-2419) Constellation: Lynx Size: 10.5' x 11.5' (approx. 10.5' x 11.5') Date: 2024-01-23 Time: 07:54 - 12:33 Filter: None Gain: 1000 Offset: 0 Scale: 0.25 arcsec/pixel Resolution: 0.25 arcsec</small></p>
<p>M-46 (NGC-2437) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster with PN</p> <p>Constellation: Puppis Coordinates: 07h 41' 45" -14° 46' 43"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: M-46/NGC-2437, NGC-2438</p> <p>Imaging Window: *07:54 – 11:12 Transit: 08:50 42°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;"><small>M-46 (NGC-2437) Constellation: Puppis Size: 10.5' x 11.5' (approx. 10.5' x 11.5') Date: 2024-01-23 Time: 07:54 - 11:12 Filter: None Gain: 1000 Offset: 0 Scale: 0.25 arcsec/pixel Resolution: 0.25 arcsec</small></p>




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<p>Bow-Tie Nebula (NGC-2440) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Puppis Coordinates: 07° 41' 55" -18° 12' 29"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: NGC-2440</p> <p>Imaging Window: *07:54 – 11:40 Transit: 08:50 38°</p>	<p>C-11 HD: Primary Focus x2</p>
<p>Butterfly Cluster (M-93, NGC-2447) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Puppis Coordinates: 07h 44' 46" -23° 51' 52"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: M-93/NGC-2447</p> <p>Imaging Window: *07:54 – 11:07 Transit: 08:52 33°</p>	<p>C-11 HD: Primary Focus</p>
<p>M-48 (NGC-2548) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Hydra Coordinates: 08h 13' 46" -05° 46' 05"</p> <p>Close Star: SAO-115756 (Procyon) Catalog Objects: M-48/NGC-2548</p> <p>Imaging Window: *07:54 – 12:08 Transit: 09:21 51°</p>	<p>C-11 HD: Primary Focus</p>




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<p>NGC-2610 Config: C11-HD HS ZWO6200MC</p> <p>Type: Planetary Nebula</p> <p>Constellation: Hydra Coordinates: 08h 33' 23" -16° 08' 55"</p> <p>Close Star: SAO-151881 (Sirius) Catalog Objects: NGC-2610 Imaging Window: *07:54 – 12:02 Transit: 09:41 41°</p>	<p>C-11 HD: Primary Focus x2</p>  <p>FOV 0.73 x 0.49° - RA 08hr 33' 23", DEC -16° 08' 55"</p>
<p>Beehive Cluster (NGC-2632) Config: C11-HD HS ZWO6200MC</p> <p>Type: Open Cluster</p> <p>Constellation: Cancer Coordinates: 08h 39' 59" 19° 39' 01"</p> <p>Close Star: SAO-115756 (Procyon) Catalog Objects: M-44/NGC-2632</p> <p>Imaging Window: 07:54 – 01:04 Transit: 09:48 76°</p>	<p>C-11 HD: HyperStar v4</p> 
<p>M-67 (NGC-2682) Config: C11HD ZWO6200MC </p> <p>Type: Open Cluster</p> <p>Constellation: Cancer Coordinates: 08h 51' 18" 11° 48' 60"</p> <p>Close Star: SAO-115756 (Procyon) Catalog Objects: M-67/NGC-2682</p> <p>Imaging Window: 07:54 – 12:55 Transit: 09:59 68°</p>	<p>C-11 HD: Primary Focus</p> 




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<p>Helix Galaxy (NGC-2685) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Ursa Major Coordinates: 08h 55' 14" 58° 42' 24"</p> <p>Close Star: SAO-27876 (Merak) Catalog Objects: NGC-2685</p> <p>Imaging Window: 07:54 – 01:52 Transit: 10:03 65°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-2903 Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Leo Coordinates: 09h 32' 08.949" 21° 30' 37.772"</p> <p>Close Star: SAO-98967 (Regulus) Catalog Objects: NGC-2903</p> <p>Imaging Window: 07:54 – 02:00 Transit: 10:40 78°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p><small>NGC-2903 Barred Spiral Galaxy in Leo</small></p> <p style="text-align: right;"><small>James Yoder 2017.02.24</small></p>
<p>Bode's Cigar (M81 & M82) Config: C11-HD HS ZWO6200MC</p> <p>Type: Galaxy Pair Peak:</p> <p>Constellation: Ursa Major Coordinates: 09hr 54' 02" 68° 53' 32"</p> <p>Close Star: SAO-15384 Catalog Objects: M-81 & M-82</p> <p>Imaging Window: 07:54 – 02:20 Transit: 11:03 54°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p><small>Cigar galaxy (M-82), Bode's galaxy (M-81), NGC-2976</small></p> <p style="text-align: right;"><small>James Yoder Date(s) 2020.12.03, 2020.12.07 Location: Chandler, AZ Config: C-11HD HyperStar v4 LPS-SL L3.0-C-13 OPT1.26x Exposure Info: 60frames@90sec, 2400total@90sec Gain: 2500 Offset: 180 1.8A - 90h 54m 43.89s DEC = +68deg 53' 43.77" Size = 3.14 x 2.89 Ang Orientation: 3.6 deg E of N Pixel scale = 2.28 arcsecond FL = 540mm</small></p>




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<p>Bode's Cigar (M81 & M82) Config: C11-HD HS ZWO6200MC</p> <p>Type: Galaxy Pair Constellation: Ursa Major Coordinates: RA: 09hr 55' 40" DEC: 69° 18' 39" 90° Rotation</p> <p>Close Star: SAO-15384 Catalog Objects: M-81 & M-82</p> <p>Imaging Window: 07:54 – 02:20 Transit: 11:03 54°</p>	<p>C-11 HD: Focal Reducer</p>  <p>FOV 1.04 x 0.69" RA 09hr 55' 40" DEC 69° 18' 39" . 0.59"/px</p>
<p>Bode's Nebula (M-81) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Constellation: Ursa Major Coordinates: 09h 55' 24.184" 69° 05' 18.969"</p> <p>Close Star: SAO-15384 Catalog Objects: M-81/NGC-3031</p> <p>Imaging Window: 07:54 – 02:23 Transit: 11:03 54°</p>	<p>C-11 HD: Primary Focus</p>  <p>M-081 Bode's Galaxy</p> <p>James Yoder 2015.11.14</p>
<p>Cigar Galaxy (M-82) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Ursa Major Coordinates: 09h 55' 57.451" 69° 42' 37.646"</p> <p>Close Star: SAO-15384 Catalog Objects: M-82/NGC-3034</p> <p>Imaging Window: 07:54 – 02:20 Transit: 11:03 54°</p>	<p>C-11 HD: Primary Focus</p>  <p>M-082 Cigar Galaxy</p> <p>James Yoder 2017.03.24</p>




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<p>Spindle Galaxy (NGC-3115) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Sextans Coordinates: 10h 05' 21" -07° 47' 09"</p> <p>Close Star: SAO-98967 (Regulus) Catalog Objects: NGC-3115</p> <p>Imaging Window: *07:54 – 02:48 Transit: 11:13 49°</p>	<p>C-11 HD: Primary Focus</p> 
<p>Powder keg Galaxy (UGC-5470) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Leo Coordinates: 10h 08' 27" 12° 19' 49"</p> <p>Close Star: SAO-98967 (Regulus) Catalog Objects: UGC-5470</p> <p>Imaging Window: 08:24 – 02:13 Transit: 11:16 69°</p>	<p>C-11 HD: Primary Focus</p> 
<p>NGC-3166 & NGC-3169 Config: C11HD ZWO6200MC </p> <p>Type: Galaxy pair</p> <p>Constellation: Sextans Coordinates: 10h 14' 01" 03° 25' 51"</p> <p>Close Star: SAO-98967 (Regulus) Catalog Objects: NGC-3166, NGC-3169</p> <p>Imaging Window: 09:00 – 01:48 Transit: 11:21 60°</p>	<p>C-11 HD: Primary Focus</p> 




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<p>Hickson 44 (NGC-3190, 3189,) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Group</p> <p>Constellation: Leo Coordinates: 10h 17' 57" 21° 49' 11"</p> <p>Close Star: SAO-98967 (Regulus) Catalog Objects: NGC-3189, 3190, 3185, 3193, 3187, PGC-2806871</p> <p>Imaging Window: 08:11 – 02:46 Transit: 11:25 79°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small; text-align: center;">Hickson-44 Galaxy Cluster (Abg-316) © 2023 Starizona LLC All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Starizona LLC.</p>
<p>NGC-3184 Config: C11HD ZWO6200MC </p> <p>Type: Face-on Spiral Galaxy</p> <p>Constellation: Ursa Major Coordinates: 10h 18' 17" 41° 25' 24"</p> <p>Close Star: SAO-98967 (Regulus) Catalog Objects: NGC-3184</p> <p>Imaging Window: 07:54 – 03:15 Transit: 11:26 82°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small; text-align: center;">Barred Spiral Galaxy NGC-3184 © 2023 Starizona LLC All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Starizona LLC.</p>
<p>NGC-3227 & NGC-3226 Config: C11HD ZWO6200MC </p> <p>Type: Interacting Galaxies</p> <p>Constellation: Leo Coordinates: 10h 23' 29" 19° 53' 07"</p> <p>Close Star: SAO-60178 (Castor) Catalog Objects: NGC-3227, NGC-3226</p> <p>Imaging Window: 08:20 – 02:47 Transit: 11:31 77°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small; text-align: center;">© 2023 Starizona LLC All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Starizona LLC.</p>



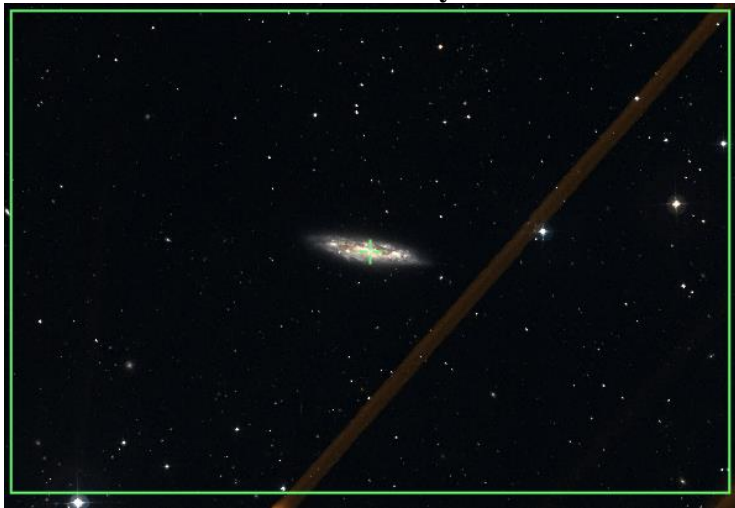
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<p>Ghost of Jupiter (NGC-3242) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Hydra Coordinates: 10h 24' 46" -18° 38' 31"</p> <p>Close Star: SAO-98967 (Regulus) Catalog Objects: NGC-3242</p> <p>Imaging Window: *08:48 – 02:21 Transit: 11:32 38°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">NGC-3242 (Ghost of Jupiter) Constellation: Hydra James Yoder Date(s) 2020.12.09.10 Location: Chandler, AZ Config: C-11 HD (OPT Triad Ultra) ZWO6200MC Exposure Info: 36 frames@2min Gain: 100 Offset: 50 RA = 10h 24m 46.7s, DEC = -18deg 38' 31.4" Size = 18.5 x 13.9 arcmin Orientation: -0.6deg E of N Pixel scale = 0.378 arcsec/pixel FL=2000mm</p>
<p>Galaxy Group 2574 Config: C11-HD HS ZWO6200MC</p> <p>Type: Galaxy Group</p> <p>Constellation: Leo Coordinates: 10h 28' 40" 68° 26' 14"</p> <p>Close Star: SAO-27876 (Merak) Catalog Objects: IC-2574</p> <p>Imaging Window: 08:18 – 03:00 Transit: 11:36 55°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="text-align: center; font-size: small; color: green;">FOV 3.81 x 2.54° · RA 10hr 12' 10", DEC 69° 02' 51"</p>
<p>Coddington's Nebula (IC-2574) Config: C11HD ZWO6200MC </p> <p>Type: Barred Spiral Galaxy</p> <p>Constellation: Leo Coordinates: 10h 28' 40" 68° 26' 14"</p> <p>Close Star: SAO-27876 (Merak) Catalog Objects: IC-2574</p> <p>Imaging Window: 08:18 – 03:00 Transit: 11:36 55°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Coddington Nebula (IC-2574) Constellation: Ursa Major James Yoder Date(s) 2022.04.01 - 2020.04.08 Location: Chandler, AZ Config: C-11 HD (Bander Skyglow) QHY126c Exposure Info: 200frames@5min Gain: 3200 Offset: 100 RA = 10h 28m 41.9s, DEC = +68deg 26' 48.2" Size = 32.3 x 23.4 arcmin Orientation: 0.02deg E of N Pixel scale = 0.452 arcsec/pixel FL=2724mm</p>


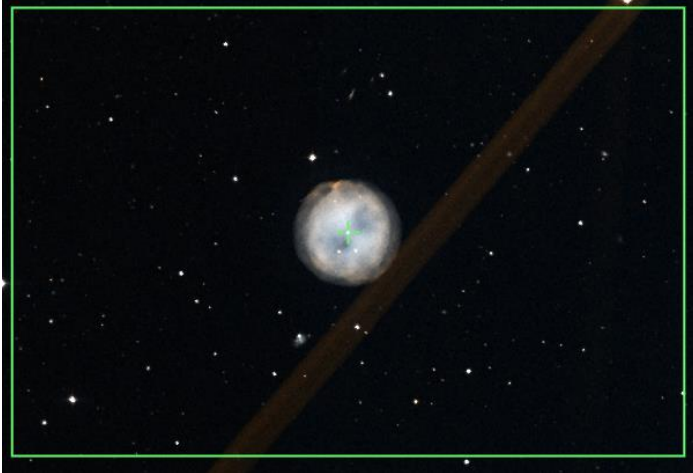

Prospective Imaging Objects – March 10 2024

<p>Leo Galaxy Group (M-96, M95 et al.) Config: C11-HD HS ZWO6200MC</p> <p>Type: Galaxy Grouping</p> <p>Constellation: Leo Coordinates: 10h 47' 23" 12° 23' 59"</p> <p>Close Star: SAO-98967 (Regulus) Catalog Objects: M-96, M95, NGC3389, NGC3384, M105</p> <p>Imaging Window: 09:04 – 02:50 Transit: 11:54 69°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>M-95, M-96 (NGC-3351, 3368) Config: C11-HD FR ZWO6200MC </p> <p>Type: Galaxy Pair</p> <p>Constellation: Leo Coordinates: 10h 45' 20" 11° 44' 30"</p> <p>Close Star: SAO-98967 (Regulus) Catalog Objects: M-95, M-96</p> <p>Imaging Window: 09:02 – 02:47 Transit: 11:51 68°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 
<p>Leo Trio 2 (NGC-3379, 3384, 3389) Config: C11HD ZWO6200MC </p> <p>Type: Trio of Galaxies</p> <p>Constellation: Leo Coordinates: 10h 48' 07.227" 12° 33' 52.943"</p> <p>Close Star: SAO-98967 (Regulus) Catalog Objects: M-105/NGC3379, NGC-3384, NGC-3389</p> <p>Imaging Window: 09:03 – 02:53 Transit: 11:55 69°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – March 10 2024

<p>Ambartsumian's Knot et al. (NGC-3561, 3558, 3553, 3550, etc.) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Cluster</p> <p>Constellation: Ursa Major Coordinates: 11h 10' 43" 28° 41' 41"</p> <p>Close Star: SAO-81727 (Zosma) Catalog Objects: NGC-3561</p> <p>Imaging Window: 08:51 – 03:52 Transit: 12:18 85°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-108 & NGC-3587 Config: C11HD ZWO6200MC </p> <p>Type: Irregular Galaxy & Planetary Nebula</p> <p>Constellation: Ursa Major Coordinates: 11h 12' 49" 55° 20' 57"</p> <p>Close Star: SAO-27876 (Merak) Catalog Objects: M-108/NGC-3555</p> <p>Imaging Window: 08:33 – 04:11 Transit: 12:19 68°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p>  <p style="font-size: small;">M-108 (NGC-3556) and Owl Nebula (M-97, NGC-3587) Constellation: Ursa Major [RA = 11h 12m 51.217s DEC = +55deg 21' 46.190"] Size = 1.91 x 1.28 deg Pixel scale = 2.29 arcsec/pixel</p> <p style="font-size: x-small; text-align: right;">James Yoder 2020.04.03 Config: C-11HD HyperStar V4 Astronomik CLS-CCD QHY128c Exposure Info: 147frames 1min Gain: 3200 Offset: 180 Location: Chandler, AZ</p>
<p>M-108 (NGC-3556) Config: C11HD ZWO6200MC </p> <p>Type: Irregular Galaxy</p> <p>Constellation: Ursa Major Coordinates: 11h 11' 29" 55° 40' 22"</p> <p>Close Star: SAO-27876 (Merak) Catalog Objects: M-108/NGC-3555</p> <p>Imaging Window: 08:33 – 04:11 Transit: 12:19 68°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – March 10 2024

<p>Owl Nebula (NGC-3587) Config: C11HD ZWO6200MC Type: Planetary Nebula</p> <p>Constellation: Ursa Major Coordinates: 11h 14' 48" 55° 01' 10"</p> <p>Close Star: SAO-27876 Catalog Objects: M-97/NGC-3587</p> <p>Imaging Window: 08:36 – 04:15 Transit: 12:22 68°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small; text-align: center;">Owl Nebula (NGC-3587 / M-97) Constellation: Ursa Major RA = 11h 14m 48.20s DEC = 55° 01' 10.12" Size = 42.7 x 33.3 arcmin. Pixel scale = 0.842 arcsec/pix</p>
<p>Owl Nebula (NGC-3587) Config: C11HD Barlow x2 ZWO6200MC </p> <p>Type: Planetary Nebula Constellation: Ursa Major Coordinates: 11h 14' 48" 55° 01' 10"</p> <p>Close Star: SAO-27876 Catalog Objects: M-97/NGC-3587</p> <p>Imaging Window: 08:36 – 04:15 Transit: 12:22 68°</p>	<p style="text-align: center;">C-11 HD: Primary Focus *x2</p> 
<p>Lio Trio of Galaxies Config: C11-HD HS ZWO6200MC</p> <p>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"</p> <p>Close Star: SAO-15384 Catalog Objects: NGC-3628, 3623, M-65</p> <p>Imaging Window: 09:33 – 03:29 Transit: 12:27 70°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer Composite!</p>  <p style="font-size: small; text-align: center;">Leo Trio of Galaxies (NGC-3628, NGC-3623, NGC-3627) Constellation: Leo the Lion RA = 11h 19m 45.3s DEC = +13deg 04' 58.0" Size = 56.7 x 77.8 arcmin (Orientation: 20deg E of N). Pixel scale = 0.579 arcsec/pix (FL = 1700mm)</p>


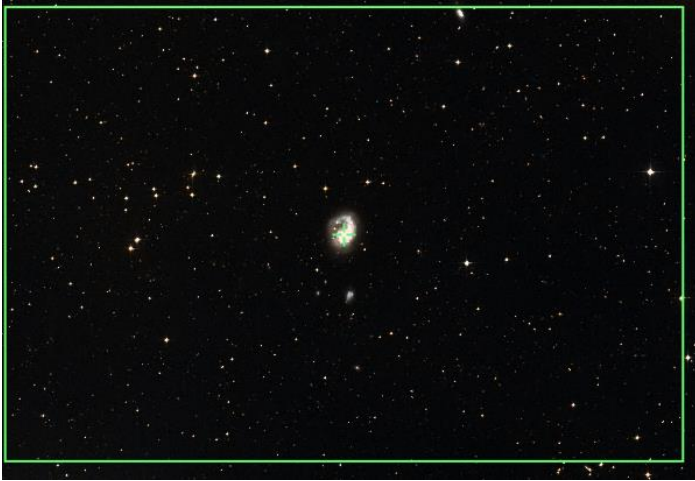

Prospective Imaging Objects – March 10 2024

<p>NGC-3628 Config: C11HD ZWO6200MC Type: Spiral Galaxy</p> <p>Constellation: Leo Coordinates: 11h 19' 44" 13° 28' 28"</p> <p><i>NOTE: M-65/M-66 & NGC-3628 can be combined to create mosaic</i></p> <p>Close Star: SAO-98967 (Regulus) Catalog Objects: NGC-3628,</p> <p>Imaging Window: 09:33 – 03:29 Transit: 12:27 70°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">NGC-3628 Edge-On Galaxy</p> <p style="text-align: right; font-size: x-small;">James Yoder 2015 04 19</p>
<p>M-65, M-66 Config: C11HD ZWO6200MC Type: Spiral Galaxy</p> <p>Constellation: Leo Coordinates: 11h 19' 44" 13° 04' 06"</p> <p><i>NOTE: M-65/M-66 & NGC-3628 can be combined to create mosaic</i></p> <p>Close Star: SAO-98967 (Regulus) Catalog Objects: M-65/NGC-3623, M-66/NGC-3627</p> <p>Imaging Window: 09:34 – 03:27 Transit: 12:27 70°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">M-65, M66 Spiral Galaxies</p> <p style="text-align: right; font-size: x-small;">James Yoder 2015 05 19</p>
<p>Arp-214 (NGC-3718, NGC-3729) Config: C11HD ZWO6200MC Type: Galaxy Pair</p> <p>Constellation: Ursa Major Coordinates: 11h 33' 09" 53° 05' 02"</p> <p>Close Star: SAO-28179 (Phecda) Catalog Objects: NGC-3718</p> <p>Imaging Window: 08:53 – 04:33 Transit: 12:40 70°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: x-small;">NGC-3718, NGC-3729 Constellation: Ursa Major RA = 11h 33m 01.01s DEC = +53° 05' 04.80" Size = 85 x 70.4 arcmin Pixel scale = 0.440 arcsec/pixel F1 = 2.720mm</p> <p style="text-align: right; font-size: x-small;">James Yoder 2020-02-26 Equipment: Celestron A8 Config: C-11 HD Astromark CLS-CCD ORV128C Exposure Info: 348min/Star (Gain: 3200) Offset: 180</p>




Prospective Imaging Objects – March 10 2024

<p>Copeland's Septet (NGC-3746, 3748, 3750, 3751, 3753, 3754) Config: C11HD ZWO6200MC Type: Galaxy Cluster</p> <p>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</p> <p>Imaging Window: 09:30 – 04:06 Transit: 12:45 79°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Abell 1367 (NGC-3861, et al.) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Cluster</p> <p>Constellation: Leo Coordinates: 11h 44' 40" 19° 56' 32"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: NGC-3861, 3842, dozens of others.</p> <p>Imaging Window: 09:42 – 04:09 Transit: 12:52 77°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Wild's Triplet (Arp-248) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Ursa Major Coordinates: 11h 46' 41" -03° 51' 46"</p> <p>Close Star: SAO-28179 (Phecda) Catalog Objects: Arp-248, PGC-36742, 36733, 36723</p> <p>Imaging Window: *09:38 – 04:17 Transit: 12:54 53°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – March 10 2024

<p>M-109(NGC-3992) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Ursa Major Coordinates: 11h 57' 34" 53° 20' 59"</p> <p>Close Star: SAO-28179 (Phecda) Catalog Objects: NGC-3992</p> <p>Imaging Window: 09:18 – 04:58 Transit: 01:05 70°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-4027(PGC-37773) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Corvus Coordinates: 11h 59' 31" -19° 15' 57"</p> <p>Close Star: SAO-157923 (Spica) Catalog Objects: NGC-4027</p> <p>Imaging Window: *10:28 – 03:49 Transit: 01:07 37°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Antennae Galaxies (Arp-244) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Pair</p> <p>Constellation: Corvus Coordinates: 12h 01' 54" -18° 53' 08"</p> <p>Close Star: SAO-157923 (Spica) Catalog Objects: Arp-244/ NGC-4038, NGC-4039</p> <p>Imaging Window: *10:28 – 03:55 Transit: 01:09 38°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

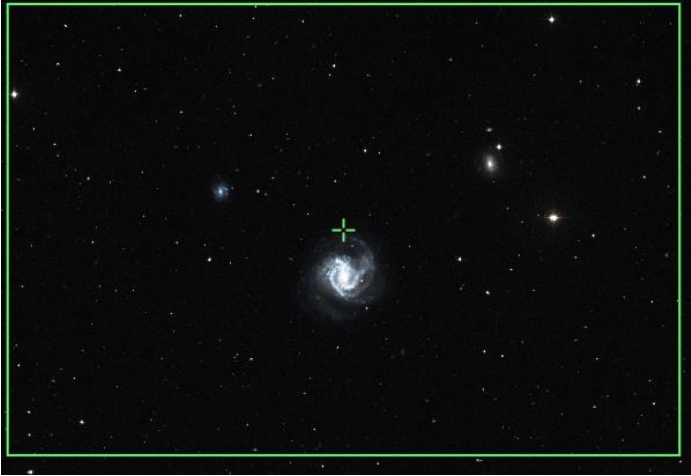


Prospective Imaging Objects – March 10 2024

<p>M-98 (NGC-4192) Config: C11HD ZWO6200MC </p> <p>Type: Barred Spiral Galaxy</p> <p>Constellation: Coma Berenices Coordinates: 12h 13' 48" 14° 53' 58"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: M-98/NGC-4192</p> <p>Imaging Window: 10:23 – 04:26 Transit: 01:21 72°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p>A photograph of the barred spiral galaxy M-98 (NGC-4192) in the constellation Coma Berenices. The galaxy is oriented vertically, showing a bright central bar and several spiral arms. The image is set against a dark background filled with numerous stars.</p>
<p>NGC-4236 (UGC 7306) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Draco Coordinates: 12h 16' 42" 69° 28' 00"</p> <p>Close Star: SAO-28553 (Alioth) Catalog Objects: NGC-4236/UGC-7306</p> <p>Imaging Window: 10:12 – 04:42 Transit: 01:24 54°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p>A photograph of the galaxy NGC-4236 (UGC 7306) in the constellation Draco. The galaxy is oriented vertically, showing a bright central bar and several spiral arms. The image is set against a dark background filled with numerous stars.</p>
<p>Silver Needle (NGC-4244) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Canes Venatici Coordinates: 12h 17' 30" 37° 48' 28"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: NGC-4244/UGC-7322</p> <p>Imaging Window: 09:45 – 05:11 Transit: 01:25 86°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p>A photograph of the Silver Needle galaxy (NGC-4244) in the constellation Canes Venatici. The galaxy is oriented diagonally, showing a bright central bar and several spiral arms. The image is set against a dark background filled with numerous stars.</p>




Prospective Imaging Objects – March 10 2024

<p>St. Katherines Wheel (M99/NGC4254) Config: C11HD ZWO6200MC </p> <p>Type: Spiral Galaxy</p> <p>Constellation: Coma Berenices Coordinates: 12h 18' 49" 14° 25' 03"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: M-99/NGC-4254 Imaging Window: 10:29 – 04:30 Transit: 01:26 71°</p>	<p>C-11 HD: Primary Focus</p> 
<p>Galaxy Group 106 Config: C11-HD HS ZWO6200MC</p> <p>Type: Galaxy Group</p> <p>Constellation: Canes Venatici Coordinates: 12h 17' 12" 47° 13' 33"</p> <p>Close Star: SAO-28179 (Phecda) Catalog Objects: M-106, NGC 4248, 4217, 4232, 4331 Imaging Window: 09:39 – 05:19 Transit: 01:26 76°</p>	<p>C-11 HD: HyperStar v4</p>  <p>FOV 3.81 x 2.54° · RA 12hr 13' 18", DEC 46° 41' 37"</p>
<p>M-106(NGC-4258) Config: C11-HD FR ZWO6200MC </p> <p>Type: Galaxy Group</p> <p>Constellation: Canes Venatici Coordinates: 12h 17' 12" 47° 13' 33"</p> <p>Close Star: SAO-28179 (Phecda) Catalog Objects: M-106, NGC 4248, 4217, 4232, 4331 Imaging Window: 09:39 – 05:19 Transit: 01:26 76°</p>	<p>C-11 HD: Focal Reducer</p>  <p>M-106 galaxy group Constellation: Canes Venatici</p> <p>2024-01-23 James VanDer Lagrange, Quebec, AZ Config: C11 HyperStar v4 Focal Reducer ZWO6200MC Exposure Info: 3/30000/1600/1600/1600/1600</p>


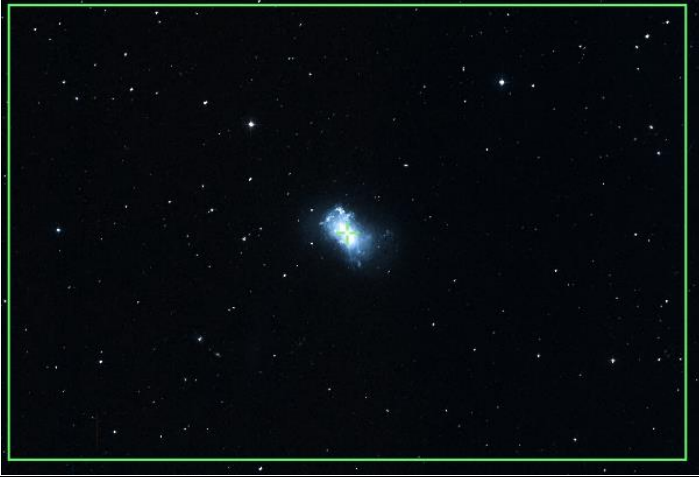
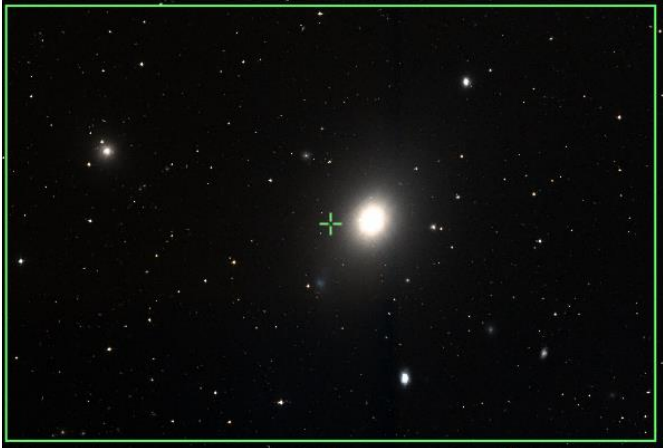
Prospective Imaging Objects – March 10 2024

<p>HII Galaxy (M61/NGC4303) Config: C11HD ZWO6200MC </p> <p>Type: Face-On Spiral Galaxy</p> <p>Constellation: Virgo Coordinates: 12h 21' 55" 04° 31' 28"</p> <p>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°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Winnecke 4(M-40) Config: C11HD ZWO6200MC </p> <p>Type: Star Pair</p> <p>Constellation: Ursa Major Coordinates: 12h 21' 22" 58° 03' 05"</p> <p>Close Star: SAO-28179 (Phecda) Catalog Objects: M-40, NGC-4290, NGC-4284 Imaging Window: 09:45 – 05:20 Transit: 01:29 65°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-100(NGC-4303) Config: C11HD ZWO6200MC </p> <p>Type: Face-On Spiral Galaxy</p> <p>Constellation: Coma Berenices Coordinates: 12h 22' 28" 15° 42' 40"</p> <p>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°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – March 10 2024

<p>NGC-4361 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Corvus Coordinates: 12h 24' 31" -18° 47' 03"</p> <p>Close Star: SAO-157176 (Gienah Corvi) Catalog Objects: NGC-4361 Imaging Window: *10:50 – 04:17 Transit: 01:31 38°</p>	<p>C-11 HD: Primary Focus</p>  <p><small>Planetary Nebula NGC-6572 Constellation: Delphinus Coordinates: RA = 18h 24m 31.12s DEC = 18d 47m 03.12s Size = 21 x 18 arcmin Orientation: RA 0.07° PA 12.0° PA 12.0°</small></p> <p><small>James Yoder (Dawson) 2023-06-02, 8000, Luminance, Channel, AZ1 Filter: L11, L12, Primary Focus (Secondary: 10x200mm) Exposure: 10s C-11 HyperStar (Laser: ON) (L08-01)</small></p>
<p>Markarian Chain(M-84 Et. Et.) Config: C11-HD HS ZWO6200MC</p> <p>Type: Galaxy cluster</p> <p>Constellation: Virgo Coordinates: 12h 26' 29" 12° 52' 22"</p> <p>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°</p>	<p>C-11 HD: HyperStar v4</p>  <p><small>Markarian's Chain (of galaxies) C-11 Hyperstar, #000iso, 56min</small></p> <p><small>James Yoder 2018.05.15</small></p>
<p>Markarian Chain 2 Config: C11-HD HS ZWO6200MC</p> <p>Type: Galaxy cluster Constellation: Virgo Coordinates: 12h 35' 40" 12° 33' 22"</p> <p>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°</p>	<p>C-11 HD: HyperStar v4</p>  <p>FOV 3.81 x 2.54° · RA 12hr 31' 35", DEC 13° 28' 16"</p>




Prospective Imaging Objects – March 10 2024

<p>Markarian's Chain (M-84) Config: C11-HD FR ZWO6200MC </p> <p>Type: Galaxy cluster</p> <p>Constellation: Virgo Coordinates: 12h 26' 29" 12° 52' 22"</p> <p>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°</p>	<p>C-11 HD: Focal Reducer</p> 
<p>NGC-4449 (UGC-7592) Config: C11HD ZWO6200MC </p> <p>Type: Irregular Galaxy</p> <p>Constellation: Canes Venatici Coordinates: 12h 28' 11" 44° 05' 42"</p> <p>Close Star: SAO-28553 (Alioth) Catalog Objects: NGC-4449/UGC-7592 Imaging Window: 09:50 – 05:21 Transit: 01:35 79°</p>	<p>C-11 HD: Primary Focus</p> 
<p>M-49(NGC-4472) Config: C11HD ZWO6200MC </p> <p>Type: Elliptical Galaxy</p> <p>Constellation: Virgo Coordinates: 12h 29' 58" 07° 59' 51"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-49/NGC-4472 Imaging Window: 10:59 – 04:21 Transit: 01:37 65°</p>	<p>C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – March 10 2024

<p>Virgo A (M-87) Config: C11HD ZWO6200MC </p> <p>Type: Elliptical Galaxy</p> <p>Constellation: Virgo Coordinates: 12h 30' 49" 12° 23' 26"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-87/NGC-4486 Imaging Window: 10:47 – 04:36 Transit: 01:38 69°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Cocoon Galaxy (NGC-4490) Config: C11HD ZWO6200MC </p> <p>Type: Interacting Galaxy Pair</p> <p>Constellation: Canes Venatici Coordinates: 12h 30' 36" 41° 38' 34"</p> <p>Close Star: SAO-28179 (Phecda) Catalog Objects: NGC-4490, NGC-4485 Imaging Window: 09:54 – 05:21 Transit: 01:38 82°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Cocoon Galaxy (NGC-4490 & NGC-4485) Constellation: Canes Venatici RA = 12h 30m 35.9s DEC = +41deg 38' 34.0" Size = 36.1 x 24.1 arcmin Orientation: 0.73deg E of N Pixel scale = 0.446 arcsec/pixel FL=2750mm James Volder DSO(s) 2020.02.02 - 2020.02.07 Location: Chandler, AZ Config: C-11 HD Bender Neigman OVI11261 Exposure Info: 7500ms/5mins Gain: 1200 Offset: 180</p>
<p>Lemon Slice Nebula (IC-3568) Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula Constellation: Camelopardalis Coordinates: 12h 33' 14" 82° 33' 22"</p> <p>Close Star: SAO-8102 (Kochab) Catalog Objects: IC-3568/UGC-7731</p> <p>Imaging Window: *08:37 – 05:21 Transit: 01:40 41°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Planetary Nebula IC-3568 Constellation: Camelopardalis RA = 12h 33m 14.0s DEC = +82deg 33' 22.0" Size = 27.1 x 0 arcmin Orientation: 90.0 deg E of N Pixel scale = 0.21 arcsec/pixel FL=2000mm James Volder DSO(s) 2020.02.02 - 2020.02.07 Location: Chandler, AZ Config: C-11 HD Bender Neigman OVI11261 Exposure Info: 7500ms/5mins Gain: 1200 Offset: 180</p>

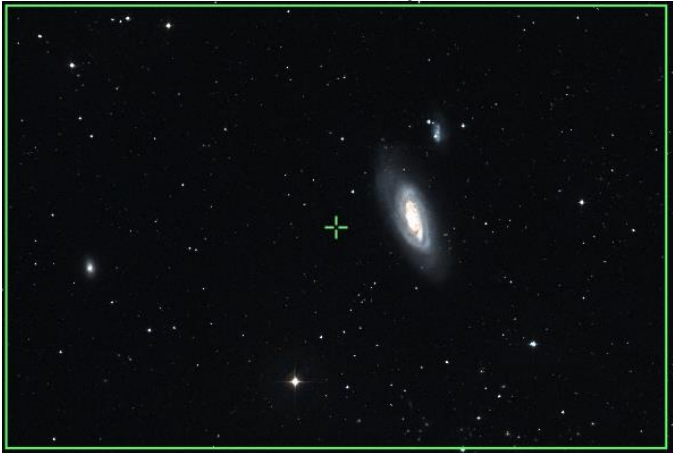


Prospective Imaging Objects – March 10 2024

<p>M-91(NGC-4548) Config: C11-HD FR ZWO6200MC </p> <p>Type: Barred Spiral Galaxy</p> <p>Constellation: Coma Berenices Coordinates: 12h 36' 11" 14° 20' 51"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-91/NGC4548, NGC-4571 Imaging Window: 10:45 – 04:46 Transit: 01:42 71°</p>	<p>C-11 HD: Focal Reducer</p> <p>FOV 1.04 x 0.70° · RA 12hr 36' 11", DEC 14° 20' 51"</p> 
<p>M-91(NGC-4548) Config: C11HD ZWO6200MC </p> <p>Type: Barred Spiral Galaxy</p> <p>Constellation: Coma Berenices Coordinates: 12h 36' 04" 14° 23' 37"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-91/NGC4548, NGC-4571 Imaging Window: 10:45 – 04:46 Transit: 01:42 71°</p>	<p>C-11 HD: Primary Focus</p> 
<p>M-89(NGC-4552) Config: C11HD ZWO6200MC </p> <p>Type: Elliptical Galaxy</p> <p>Constellation: Virgo Coordinates: 12h 35' 43" 12° 24' 24"</p> <p>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°</p>	<p>C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – March 10 2024

<p>NGC-4559 (UGC-7766) Config: C11HD ZWO6200MC </p> <p>Type: Barred Spiral Galaxy</p> <p>Constellation: Coma Berenices Coordinates: 12h 35' 58" 27° 57' 35"</p> <p>Close Star: SAO-44752 (Alkaid) Catalog Objects: NGC-4559/UGC-7766 Imaging Window: 10:17 – 05:16 Transit: 01:43 85°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Siamese Twins(NGC-4567) Config: C11HD ZWO6200MC </p> <p>Type: Elliptical Galaxy</p> <p>Constellation: Virgo Coordinates: 12h 36' 26" 11° 19' 59"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: NGC-4567, NGC-4568, NGC-4564 Imaging Window: 10:56 – 04:38 Transit: 01:43 68°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Needle Galaxy (NGC-4565) Config: C11HD ZWO6200MC </p> <p>Type: Edge-on Galaxy</p> <p>Constellation: Coma Berenices Coordinates: 12h 36' 02" 25° 56' 51"</p> <p>Close Star: SAO-44752 (Alkaid) Catalog Objects: NGC-4565, NGC-4562 Imaging Window: 10:21 – 05:13 Transit: 01:43 83°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – March 10 2024

<p>M-90 (NGC-4569) Config: C11HD ZWO6200MC </p> <p>Type: Spiral Galaxy</p> <p>Constellation: Virgo Coordinates: 12h 37' 11" 13° 09' 19"</p> <p>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°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Galaxy Group 58 Config: C-11HD HyperStar </p> <p>Type: Galaxy Group</p> <p>Constellation: Virgo Coordinates: 12h 37' 35" 12° 18' 56"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-58/NGC-4579 Imaging Window: 10:55 – 04:41 Transit: 01:45 69°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>M-58 (NGC-4579) Config: C11HD ZWO6200MC </p> <p>Type: Barred Spiral Galaxy</p> <p>Constellation: Virgo Coordinates: 12h 37' 44" 11° 49' 06"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-58/NGC-4579 Imaging Window: 10:55 – 04:41 Transit: 01:45 69°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 


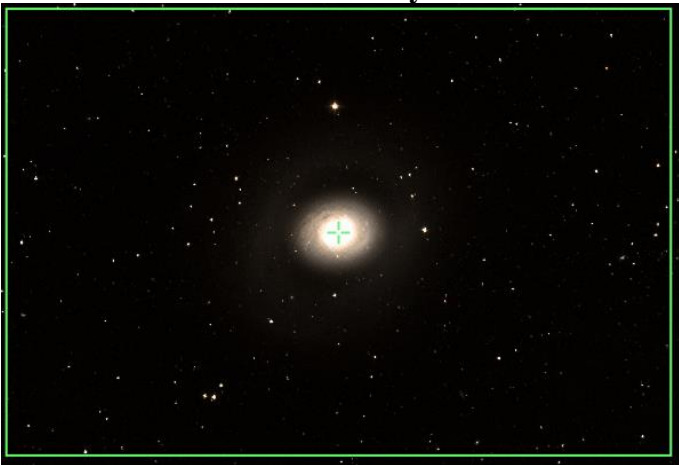

Prospective Imaging Objects – March 10 2024

<p>M-68 (NGC-4590) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster Constellation: Hydra Coordinates: 12h 39' 28" -26° 44' 32"</p> <p>Close Star: SAO-180915 (Kraz) Catalog Objects: M-68/NGC-4590</p> <p>Imaging Window: *12:08 – 03:38 Transit: 01:46 30°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center; font-size: small;">FOV 0.73 x 0.49° - Rayleigh limit 0.49"</p>
<p>Sombrero Galaxy (M-104) Config: C11HD ZWO6200MC </p> <p>Type: Edge-on Spiral Galaxy</p> <p>Constellation: Virgo Coordinates: 12h 39' 44" -11° 37' 52"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-104/NGC-4594 Imaging Window: *11:35 – 04:00 Transit: 01:47 45°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center; font-size: x-small;">M104: Sombrero Galaxy James Yoder 2015.01.18</p>
<p>Whale and Hockey Stick (NGC-4631, NGC-4656) Config: C11-HD FR ZWO6200MC </p> <p>Type: Galaxies</p> <p>Constellation: Canes Venatici Coordinates: 12h 42' 50" 32° 20' 54"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: NGC-4631, NGC-4656 Imaging Window: 10:16 – 05:21 Transit: 01:49 89°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="text-align: center; font-size: x-small;">Whale and Hockey Stick Galaxies (NGC4631, NGC4656) Constellation: Canes Venatici James Yoder - 2019.04.15 Location: Mountain View, Utah, AZ Config: C11 Starizona L.F. Corrector Blander Skyglow filter QHY 128C Exposure: 10x 20 Binocular: Canon 5000 Offset: 100</p>

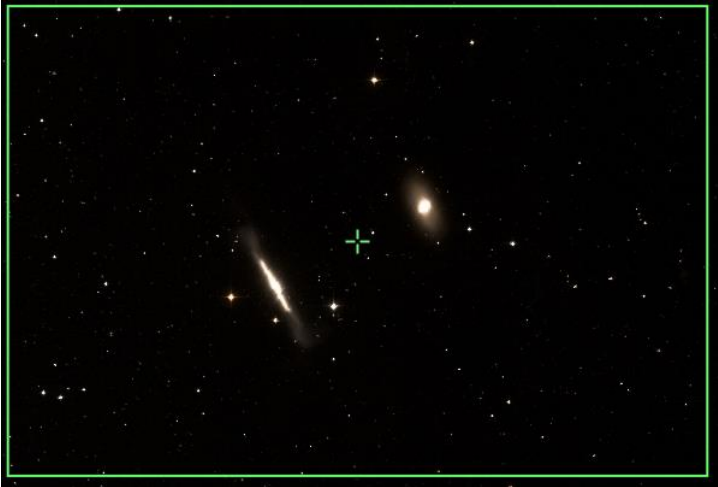
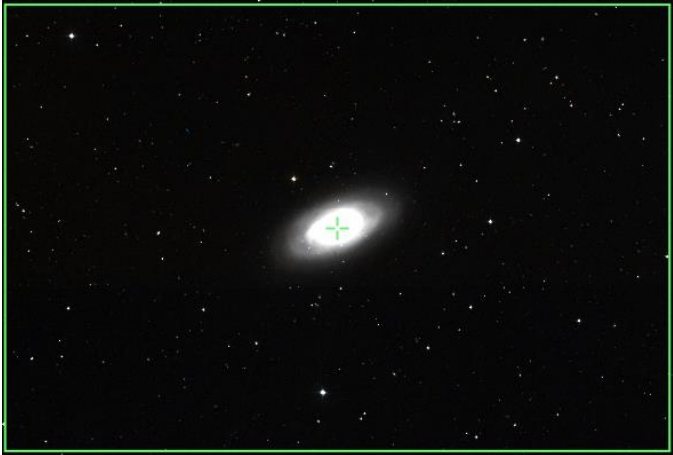
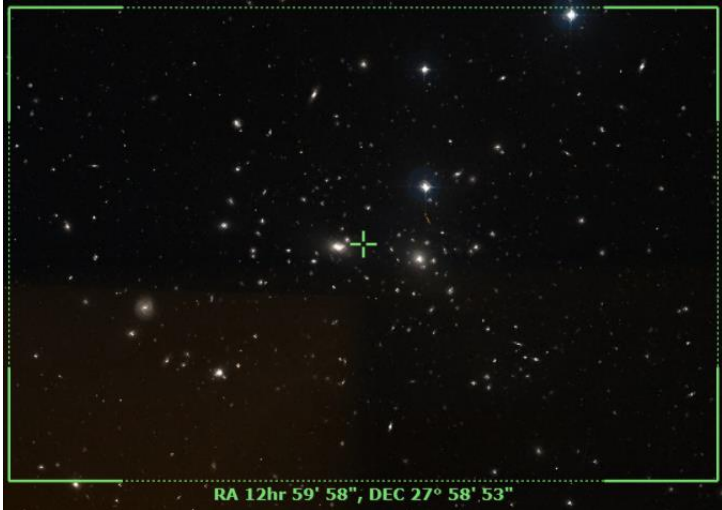
Prospective Imaging Objects – March 10 2024

<p>M-59, M-60 group Config: C11-HD FR ZWO6200MC </p> <p>Type: Galaxy Group</p> <p>Constellation: Virgo Coordinates: 12h 42' 42" 11° 40' 33"</p> <p>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°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="font-size: small;">Virgo Cluster of Galaxies Constellation: Virgo the virgin Exposure Info: L=840ms@6min, G=1360ms@6min, R=1250ms@6min, B=1460ms@6min Total = 12hrs 18min 00s Gain: 100 Offset: 50 James Yoder Date(s) 2021.04.30 - 2020.05.16 Location: Chandler, AZ Config: C11-HD 0.7 Reducer Filter: Baader Skyglow, RGB Camera: ZWO ASI-6200 RA = 12h 42m 40.5s DEC = +11deg 40' 19.7" Size = 57.3 x 37.7 arcmin Orientation: -0.2deg E of N Pixel scale = 0.785 arcsec/pixel FL = 1960mm</p>
<p>TheMice (NGC-4676 A & B) Config: C11HD ZWO6200MC </p> <p>Type: Interacting Galaxies</p> <p>Constellation: Coma Berenices Coordinates: 12h 46' 07" 30° 43' 43"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: NGC-4676A & B Imaging Window: 10:23 – 05:21 Transit: 01:53 87°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-4725 (PGC-43451) Config: C11-HD FR ZWO6200MC </p> <p>Type: Galaxy group</p> <p>Constellation: Coma Berenices Coordinates: 12h 50' 55" 25° 35' 59"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: NGC-4725, NGC-4712, NGC-4747 Imaging Window: 10:36 – 05:21 Transit: 01:57 82°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p>  <p style="font-size: small;">Galaxy Cluster NGC-4747, NGC-4725, NGC-4712 Constellation: Coma Berenices Exposure Info: 960ms@3min Gain: 1200 Offset: 100 James Yoder Date(s) 2021.01.02, 2021.01.03 Location: Chandler, AZ Config: C11-HD 0.7 Reducer Filter: Baader Skyglow Camera: QHY128C 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 arcsec/pixel FL = 1953mm</p>




Prospective Imaging Objects – March 10 2024

<p>NGC-4725 (PGC-43451) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy group</p> <p>Constellation: Coma Berenices Coordinates: 12h 50' 50" 25° 35' 23"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: NGC-4725, NGC-4712, NGC-4747 Imaging Window: 10:36 – 05:21 Transit: 01:57 82°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>M-94 (NGC-4736) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Canes Venatici Coordinates: 12h 50' 53" 41° 07' 17"</p> <p>Close Star: SAO-28553 (Alioth) Catalog Objects: M-94/NGC-4736 Imaging Window: 10:15 – 05:21 Transit: 01:58 82°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-4731 (PGC-43507) Config: C11HD ZWO6200MC </p> <p>Type: Barred Spiral Galaxy</p> <p>Constellation: Virgo Coordinates: 12h 51' 01" -06° 21' 49"</p> <p>Close Star: SAO-157923 (Spica) Catalog Objects: NGC-4731 Imaging Window: *11:18 – 04:39 Transit: 01:58 50°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – March 10 2024

<p>NGC-4762, 4754 (PGC-43733) Config: C11HD ZWO6200MC </p> <p>Type: Edge on Galaxy</p> <p>Constellation: Virgo Coordinates: 12h 52' 35" 11° 16' 42"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: NGC-4762, NGC-4754 Imaging Window: 11:12 – 04:55 Transit: 02:00 68°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Black Eye Galaxy (M-64) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Coma Berenices Coordinates: 12h 56' 44" 21° 40' 59"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: M-64/NGC-4826 Imaging Window: 10:50 – 05:21 Transit: 02:04 78°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Coma Galaxy Cluster (Abell-1656) Config: C11-HD FR ZWO6200MC </p> <p>Type: Galaxy Cluster</p> <p>Constellation: Coma Berenices Coordinates: 12h 59' 58" 27° 58' 53"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: Abell-1656 Imaging Window: 10:41 – 05:21 Transit: 02:07 85°</p>	<p style="text-align: center;">C-11 HD: Focal Reducer</p> 


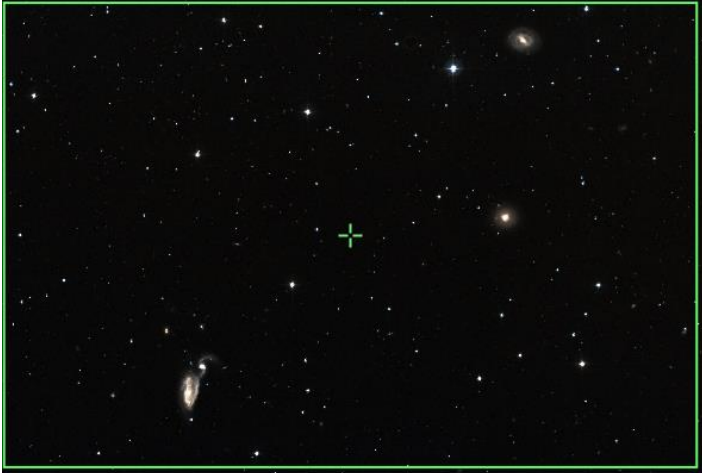
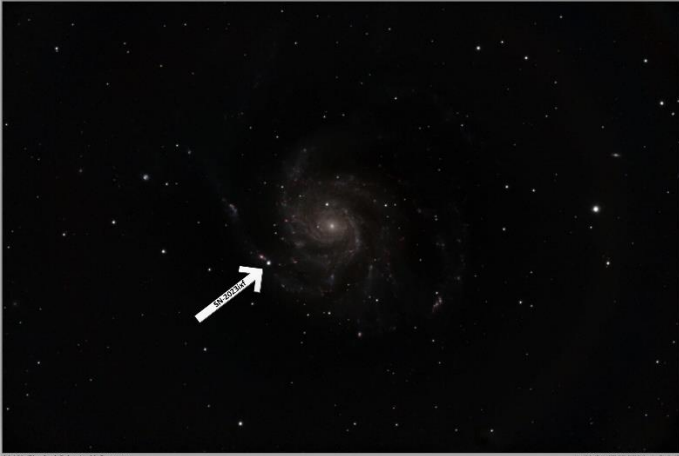
Prospective Imaging Objects – March 10 2024

<p>Coma Galaxy Cluster (Abell-1656) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Cluster</p> <p>Constellation: Coma Berenices Coordinates: 13h 00' 06" 28° 00' 31"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: Abell-1656 Imaging Window: 10:41 – 05:21 Transit: 02:07 85°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Galaxy Cluster Abell-1656 Constellation: Coma Berenices RA = 19h 00m 06.00s DEC = +28d 00m 31.00s Size = 41 x 37 arcmin Pixel scale = 0.48 arcsec/pixel James Taylor Date: 2023-03-21 Location: Clouds, AZ Config: C-11 HD Super-Scope Filter (QHY128c) Exposure Info: 10x300sec/Frame/Gain: 200e (Offset: 100)</p>
<p>M-53 (NGC-5024) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster Constellation: Coma Berenices Coordinates: 13h 12' 55" 18° 10' 11"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: M-53/NGC-5024</p> <p>Imaging Window: 11:14 – 05:21 Transit: 02:20 75°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small;">Globular Cluster Messier 53 Constellation: Coma Berenices RA = 13h 12m 55.7s DEC = +18d 10m 11.0s Size = 37.7 x 27.0 arcmin Orientation: 0.0deg E of N Pixel scale = 0.452 arcsec/pixel F5 - 722nm James Taylor Date: 2023-03-21 Location: Clouds, AZ Config: C-11 HD Super-Scope Filter (QHY128c) Exposure Info: 30x300sec/Frame/Gain: 200e (Offset: 100)</p>
<p>NGC-5033 (PGC-45948) Config: C11HD ZWO6200MC </p> <p>Type: Spiral Galaxy</p> <p>Constellation: Canes Venatici Coordinates: 13h 13' 28" 36° 35' 36"</p> <p>Close Star: SAO-28553 (Alioth) Catalog Objects: NGC-5033/PGC-45948 Imaging Window: 10:42 – 05:21 Transit: 02:20 87°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – March 10 2024

<p>Sunflower Galaxy (M-63) Config: C11HD ZWO6200MC </p> <p>Type: Spiral Galaxy</p> <p>Constellation: Canes Venatici Coordinates: 13h 15' 15" 42° 04' 41"</p> <p>Close Star: SAO-28553 (Alioth) Catalog Objects: M-63/NGC-5055, UGC-8313 Imaging Window: 10:39 – 05:21 Transit: 02:23 81°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>NGC-5053 Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Coma Berenices Coordinates: 13h 16' 27" 17° 41' 55"</p> <p>Close Star: SAO-99809 (Denebola) Catalog Objects: NGC-5053 Imaging Window: 11:18 – 05:21 Transit: 02:23 74°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Whirlpool Galaxy (M-51) Config: C11HD ZWO6200MC </p> <p>Type: Interacting Galaxies</p> <p>Constellation: Canes Venatici Coordinates: 13h 29' 53" 47° 11' 44"</p> <p>Close Star: SAO-28553 (Alioth) Catalog Objects: M-51/NGC-5194, NGC-5195 Imaging Window: 10:50 – 05:21 Transit: 02:37 76°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 




Prospective Imaging Objects – March 10 2024

<p>M-3 (NGC-5272) Config: C11HD Barlow x2 ZWO6200MC </p> <p>Type: Globular Cluster Constellation: Canes Venatici Coordinates: 13h 42' 11" 28° 22' 34"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-3/NGC-5272</p> <p>Imaging Window: 11:23 – 05:21 Transit: 02:49 85°</p>	<p style="text-align: center;">C-11 HD: Primary Focus *x2</p>  <p style="text-align: center;"><small>Globular Cluster M-3</small></p>
<p>Heron Galaxy (NGC-5395) et al. Config: C11HD ZWO6200MC </p> <p>Type: Galaxies</p> <p>Constellation: Canes Venatici Coordinates: 13h 57' 46" 37° 35' 31"</p> <p>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°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 
<p>Pinwheel Galaxy (M-101) Config: C11HD ZWO6200MC </p> <p>Type: Face-on Spiral Galaxy</p> <p>Constellation: Ursa Major Coordinates: 14h 03' 54" 54° 22' 44"</p> <p>Close Star: SAO-28553 (Alioth) Catalog Objects: M-101/NGC-5457, NGC-5477 Imaging Window: 11:24 – 05:21 Transit: 03:10 69°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center;"><small>M-101 (Pinwheel Galaxy) with Supernova</small></p>



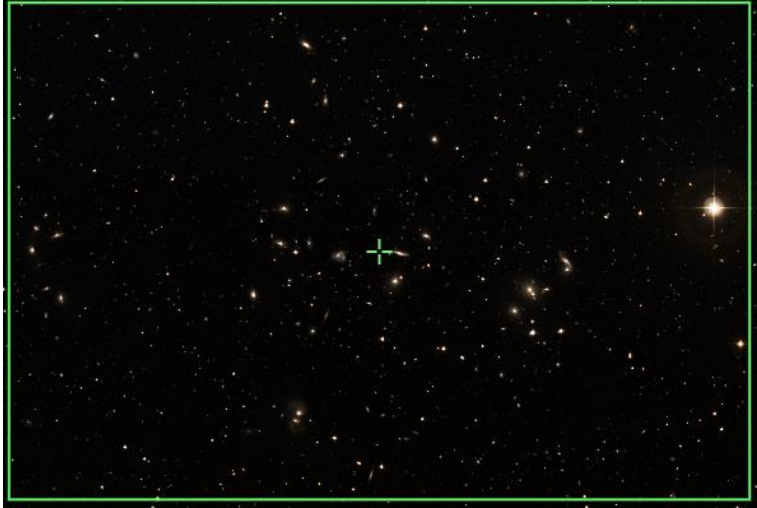
Prospective Imaging Objects – March 10 2024

<p>NGC-5466 Config: C11HD Barlow x2 ZWO6200MC </p> <p>Type: Globular Cluster Constellation: Bootes Coordinates: 14h 05' 27" 28° 32' 06"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: NGC-5466</p> <p>Imaging Window: 11:46 – 05:21 Transit: 03:12 85°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small; text-align: center;"> <small> Globular Cluster NGC-5466 Constellation: Bootes Coordinates: RA = 14h 05m 27.00s DEC = 28d 32m 06.00s Date: 2024-01-23 21:00:00 UTC Filter: QBV128c Gain: 3200 Offset: 180 </small> </p>
<p>Spindle Galaxy (M-102) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Draco Coordinates: 15h 06' 29" 55° 45' 49"</p> <p>Close Star: SAO-28553 (Alioth) Catalog Objects: M-102</p> <p>Imaging Window: 12:28 – 05:21 Transit: 04:13 69°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small; text-align: center;"> <small> Spindle Galaxy (M-102/NGC-5866) Constellation: Draco the Dragon RA = 15h 06m 32.2s DEC = 55d 45m 49.1s Size = 36.9 x 24.8 arcmin Orientation: 375deg E of N Pixel scale = 0.446 arcsec/pixel FL=2000mm James Webb - Location: Chandler, AZ - 2024-01-23 Config: C-11 HD Baader Skyglow Filter QBV128c Exposure Info: 160ms@5000 Gain: 3200 Offset: 180 </small> </p>
<p>NGC-5905, 5908 Config: C11HD ZWO6200MC </p> <p>Type: Galaxies</p> <p>Constellation: Drao Coordinates: 15h 16' 07" 55° 28' 10"</p> <p>Close Star: SAO-28737 (Mizar) Catalog Objects: NGC-5905, 5908</p> <p>Imaging Window: 12:36 – 05:21 Transit: 04:22 68°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="font-size: small; text-align: center;"> <small> Galaxies NGC-5905, NGC-5908 Constellation: Draco the dragon RA = 15h 16m 35.9s DEC = 55d 28m 29.00s Size = 29.75 x 19.8 arcmin Pixel scale = 0.446 arcsec/pixel James Webb - Location: Chandler, AZ - 2024-01-23 Config: C-11 HD Baader Skyglow Filter QBV128c Exposure Info: 160ms@5000 Gain: 3200 Offset: 180 </small> </p>

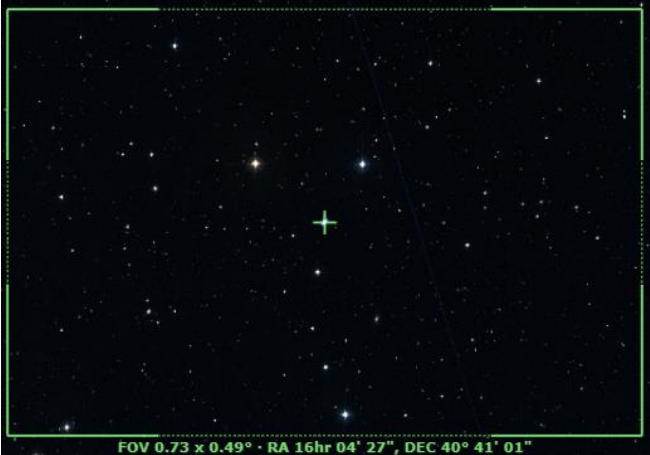


Prospective Imaging Objects – March 10 2024

<p>Splinter Galaxy (NGC-5907) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Drao Coordinates: 15h 15' 54" 56° 19' 49"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: NGC-5907 Imaging Window: 12:38 – 05:21 Transit: 04:22 68°</p>	<p>C-11 HD: Primary Focus</p>  <p><small>Splinter Galaxy (NGC 5907) Constellation: Drao</small></p> <p><small>James Yoder 2017.01.25 Config: C11 Starizona F1 Converter Starizona F1200 C11HD ZWO6200MC Exposure Info: 00h00m00s Gain: 2500 Offset: 100</small></p>
<p>M-5 (NGC-5904) Config: C11HD ZWO6200MC </p> <p>Type: Globular Cluster</p> <p>Constellation: Serpens Coordinates: 15h 18' 34" 02° 05' 00"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: M-5/NGC-5904 Imaging Window: 02:11 – 05:21 Transit: 04:25 59°</p>	<p>C-11 HD: Primary Focus</p>  <p><small>M-005 Globular Cluster in Serpens</small></p> <p><small>James Yoder 2017.01.25</small></p>
<p>Draco Trio (NGC-5985,5982,5981) Config: C11HD ZWO6200MC </p> <p>Type: Galaxies</p> <p>Constellation: Drao Coordinates: 15h 38' 20" 59° 22' 56"</p> <p>Close Star: SAO-28737 (Mizar) Catalog Objects: NGC-5985, NGC-5982, NGC-5981 Imaging Window: 01:04 – 05:21 Transit: 04:46 64°</p>	<p>C-11 HD: Primary Focus</p>  <p><small>NGC 5981</small></p> <p><small>NGC 5982</small></p> <p><small>NGC 5985</small></p> <p><small>NGC-5981, NGC-5982, NGC-5985 Galaxy Cluster in Draco C-11, 1600iso, 70min</small></p> <p><small>James Yoder 2018.05.08</small></p>

Prospective Imaging Objects – March 10 2024

<p>Sharpless 2-1 (SH2-1) Config: C11-HD HS ZWO6200MC</p> <p>Type: Diffuse Nebula</p> <p>Constellation: Scorpius Coordinates: 15h 56' 09" -25° 40' 29"</p> <p>Close Star: SAO-208078 (Wei) Catalog Objects: SH2-1/LBN-1093</p> <p>Imaging Window: *03:16 – 05:21 Transit: 05:05 31°</p>	<p style="text-align: center;">C-11 HD: HyperStar v4</p> 
<p>Seyfert's Sextet (NGC-6027A-E) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Group & One</p> <p>Constellation: Serpens Coordinates: 15h 59' 46" 20° 47' 27"</p> <p>Close Star: SAO-83893 Catalog Objects: NGC-6027A-E, UGC-10127</p> <p>Imaging Window: 01:54 – 05:21 Transit: 05:06 77°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p><small>NGC-6027 (Seyfert's Sextet) Constellation: Serpens Right Ascension: 15h 59m 46.00s Declination: 20° 47' 27.00"</small></p> <p><small>Sharpless 2-1 (SH2-1) Constellation: Scorpius Right Ascension: 15h 56m 09.00s Declination: -25° 40' 29.00"</small></p>
<p>Hercules Galaxy Cluster (Abell-2151) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy Cluster</p> <p>Constellation: Hercules Coordinates: 16h 05' 13" 17° 45' 39"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: Abell-2151</p> <p>Imaging Window: 02:07 – 05:21 Transit: 05:12 74°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p> 

Prospective Imaging Objects – March 10 2024

<p>NGC-6058 Config: C11HD ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Hercules Coordinates: 16h 04' 27" 40° 41' 01"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: NGC-6058 Imaging Window: 01:29 – 05:21 Transit: 05:11 83°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center; font-size: small;">FOV 0.73 x 0.49° · RA 16hr 04' 27", DEC 40° 41' 01"</p>
<p>Tadpole Galaxy (Arp-188) Config: C11HD ZWO6200MC </p> <p>Type: Galaxy</p> <p>Constellation: Draco Coordinates: 16h 06' 04" 55° 26' 07"</p> <p>Close Star: SAO-28737 (Mizar) Catalog Objects: Arp-188, PGC-57087, 57114, 57108</p> <p>Imaging Window: 01:27 – 05:21 Transit: 05:12 68°</p>	<p style="text-align: center;">C-11 HD: Primary Focus</p>  <p style="text-align: center; font-size: x-small;">Tadpole Galaxy (ARP-188) Constellation: Draco the Dragon RA = 16h 06m 58.5s DEC = +55deg 26' 07.7" Size = 41.8 x 27.9 arcmin Observation: 35Mag E of N Pixel scale = 0.446 arcsecond James VanDerKam (Date: 2020/01/17) License: MainImage: Geminid_TailHead_A21 Circles: J. VanDerKam Primary Focus: Not Final: ODF 128 (17-2000) Exposure Info: (300ms)20ms Gain: 1200 (0.054: 180)</p>
<p>White Eyed Pea (IC-4593) Config: C11HD Barlow x2 ZWO6200MC </p> <p>Type: Planetary Nebula</p> <p>Constellation: Hercules Coordinates: 15h 11' 45" 12° 03' 45"</p> <p>Close Star: SAO-100944 (Arcturus) Catalog Objects: IC-4593 Imaging Window: 02:28 – 05:21 Transit: 05:18 69°</p>	<p style="text-align: center;">C-11 HD: Primary Focus *x2</p> 

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



Prospective Imaging Objects – March 10 2024

Blank

Page

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 EI	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 Knot 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 Galaxy
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 Berenices: 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					