



## 3055 - A TRGB calibration of Surface Brightness Fluctuations

Cycle: 2, Proposal Category: GO

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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Dr. Gagandeep Singh Anand (CoI)	Space Telescope Science Institute
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Dr. Gabriella Raimondo (CoI) (ESA Member)	INAF - Osservatorio Astronomico d'Abruzzo

### OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1	NGC1380	NIRCam Imaging	(1) NGC-1380
	2	NGC1399	NIRCam Imaging	(2) NGC-1399
	3	NGC1404	NIRCam Imaging	(3) NGC-1404
	4	M84-NGC4374	NIRCam Imaging	(4) MESSIER-084
	5	M86-NGC4406	NIRCam Imaging	(5) MESSIER-086
	6	M49-NGC4472	NIRCam Imaging	(6) MESSIER-049
	7	M87-NGC4486	NIRCam Imaging	(7) MESSIER-087
	8	M89-NGC4552	NIRCam Imaging	(8) MESSIER-089
	9	M59-NGC4621	NIRCam Imaging	(9) MESSIER-059
	10	M60-NGC4649	NIRCam Imaging	(10) MESSIER-060
	11	NGC4697	NIRCam Imaging	(11) NGC-4697
	12	NGC1549	NIRCam Imaging	(12) NGC-1549
	13	NGC3379	NIRCam Imaging	(13) MESSIER-105

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	14	NGC4636	NIRCam Imaging	(14) NGC-4636

## **ABSTRACT**

If the holy grail of a 1% measurement of the Hubble constant from measurements of galaxy distances and velocities is to be achieved, it will be essential to complement the current effort based on Population I star Cepheid and Type Ia supernova measurements. An alternate path that promises comparable accuracy involves the Population II route through tip of the red giant branch (TRGB) and surface brightness fluctuation (SBF) distances. This path requires implementation of 4 steps: (1) parallax zero-point calibration of TRGB, (2) transfer of the TRGB calibration to SBF, (3) full vetting of the SBF methodology, and (4) exploitation of SBF to a large sample at large distances.

The current program addresses the second step: the connection between TRGB and SBF distance scales. These two methodologies are physically connected; the constancy of energy release from the brightest stars on the red giant branch when degenerate helium cores commence burning to carbon. With TRGB, the individual brightest RGB stars are observed; with SBF, the unresolved mottling caused by these stars is recorded. In detail, metallicity-age effects are such that optimal passbands and positioning of targets are different for TRGB and SBF measurements. In the case of TRGB, there is relative constancy at low metallicities in F090W and fields in halos are favored where low metallicity stars are dominant. With SBF, there is relative constancy at high metallicities in the F150W passband and such stars are dominant in the centers of the E-S0 systems to be given attention. With the extended spatial coverage of NIRCam, the observations required for TRGB and SBF studies can be acquired simultaneously.

## **OBSERVING DESCRIPTION**

Primary observations are made with NIRCam using the SW F090W and F150W filters, with roughly 80% of the exposure time devoted to the F090W passband. Simultaneous observations are made through the LW filters F277W and F356W. In all cases, the NIRCam positioning is such that there is simultaneous coverage of the core and the halo of the target galaxies.

All observations use full subarrays and small 4-point dithers.

With 11 of the 14 targets, secondary observations will be made with NIRISS camera using the F090W and F150W filters. These observations will impose constraints on the positioning of the NIRCam and NIRISS cameras.

# Proposal 3055 - Targets - A TRGB calibration of Surface Brightness Fluctuations

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	
(1)	NGC-1380	RA: 03 36 27.5900 (54.1149583d) Dec: -34 58 34.68 (-34.97630d) Equinox: J2000	Epoch of Position: 2015.5		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Elliptical galaxies] Extended=YES					
(2)	NGC-1399	RA: 03 38 29.0830 (54.6211792d) Dec: -35 27 2.67 (-35.45074d) Equinox: J2000	Epoch of Position: 2015.5		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Elliptical galaxies] Extended=YES					
(3)	NGC-1404	RA: 03 38 51.9170 (54.7163208d) Dec: -35 35 39.81 (-35.59439d) Equinox: J2000	Epoch of Position: 2015.5		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Elliptical galaxies] Extended=YES					
Fixed Targets	(4)	MESSIER-084	RA: 12 25 3.7432 (186.2655967d) Dec: +12 53 13.14 (12.88698d) Equinox: J2000	Epoch of Position: 2015.5	
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Elliptical galaxies] Extended=YES				
	(5)	MESSIER-086	RA: 12 26 11.8140 (186.5492250d) Dec: +12 56 45.49 (12.94597d) Equinox: J2000	Epoch of Position: 2015.5	
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Elliptical galaxies] Extended=YES				
	(6)	MESSIER-049	RA: 12 29 46.8000 (187.4450000d) Dec: +08 00 1.00 (8.00028d) Equinox: J2000	Epoch of Position: 2015.5	
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Elliptical galaxies] Extended=YES				
	(7)	MESSIER-087	RA: 12 30 49.4149 (187.7058954d) Dec: +12 23 28.21 (12.39117d) Equinox: J2000	Epoch of Position: 2015.5	
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Elliptical galaxies] Extended=YES					

## Proposal 3055 - Targets - A TRGB calibration of Surface Brightness Fluctuations

(8)	MESSIER-089	RA: 12 35 39.8073 (188.9158637d) Dec: +12 33 22.83 (12.55634d) Equinox: J2000	Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=Galaxy            Description=[Elliptical galaxies]            Extended=YES</p>			
(9)	MESSIER-059	RA: 12 42 2.2581 (190.5094088d) Dec: +11 38 48.91 (11.64692d) Equinox: J2000	Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=Galaxy            Description=[Elliptical galaxies]            Extended=YES</p>			
(10)	MESSIER-060	RA: 12 43 39.9680 (190.9165333d) Dec: +11 33 9.70 (11.55269d) Equinox: J2000	Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=Galaxy            Description=[Elliptical galaxies]            Extended=YES</p>			
(11)	NGC-4697	RA: 12 48 35.8981 (192.1495754d) Dec: -05 48 2.48 (-5.80069d) Equinox: J2000	Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=Galaxy            Description=[Elliptical galaxies]            Extended=YES</p>			
(12)	NGC-1549	RA: 04 15 45.2230 (63.9384292d) Dec: -55 35 32.50 (-55.59236d) Equinox: J2000	Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=Galaxy            Description=[Elliptical galaxies]            Extended=YES</p>			
(13)	MESSIER-105	RA: 10 47 49.6000 (161.9566667d) Dec: +12 34 53.87 (12.58163d) Equinox: J2000	Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=Galaxy            Description=[Elliptical galaxies]            Extended=YES</p>			
(14)	NGC-4636	RA: 12 42 49.8333 (190.7076388d) Dec: +02 41 15.95 (2.68776d) Equinox: J2000	Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=Galaxy            Description=[Elliptical galaxies]            Extended=YES</p>			

# Proposal 3055 - Observation 1 - A TRGB calibration of Surface Brightness Fluctuations

Wed Sep 27 01:00:11 GMT 2023

<b>Observation</b>	<p><b>Proposal 3055, Observation 1: NGC1380</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Imaging</p>									
<b>Diagnostics</b>	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(1)	NGC-1380	RA: 03 36 27.5900 (54.1149583d) Dec: -34 58 34.68 (-34.97630d) Equinox: J2000		Epoch of Position: 2015.5					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Galaxy</i></p> <p><i>Description=[Elliptical galaxies]</i></p> <p><i>Extended=YES</i></p>									
<b>Template</b>	<b>Module</b>		<b>Subarray</b>			<b>Target Placement</b>				
	ALL		FULL			Module Gap				
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>		<b>Subpixel Dither Type</b>		<b>Dither Size</b>	<b>Subpixel Positions</b>	
	1	NONE				SMALL-GRID-DITHER			4	
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F090W	F277W	MEDIUM8	7	3	12	4	8847.098	
	2	F150W	F356W	SHALLOW4	10	1	4	4	2104.407	
<b>Special Requirements</b>	<p>Aperture PA Range 340 to 50 Degrees (V3 340.0713531 to 50.0713531)</p> <p>Offset 52.0 arcsec, -33.0 arcsec</p>									

Proposal 3055 - Observation 2 - A TRGB calibration of Surface Brightness Fluctuations

Wed Sep 27 01:00:11 GMT 2023

<b>Observation</b>	<b>Proposal 3055, Observation 2: NGC1399</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRCam Imaging Coordinated Parallel Template(s): NIRISS Imaging																																							
	(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																							
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>NGC-1399</td> <td>RA: 03 38 29.0830 (54.6211792d) Dec: -35 27 2.67 (-35.45074d) Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>  <i>Category=Galaxy</i>  <i>Description=[Elliptical galaxies]</i>  <i>Extended=YES</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(2)	NGC-1399	RA: 03 38 29.0830 (54.6211792d) Dec: -35 27 2.67 (-35.45074d) Equinox: J2000	Epoch of Position: 2015.5																					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																			
(2)	NGC-1399	RA: 03 38 29.0830 (54.6211792d) Dec: -35 27 2.67 (-35.45074d) Equinox: J2000	Epoch of Position: 2015.5																																					
<b>NIRCam Imaging</b>					<b>NIRISS Imaging</b>																																			
<b>Template</b>	Module: ALL Subarray: FULL Target Placement: Module Gap																																							
<b>Dithers</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Dither Type</th> <th>Primary Dithers</th> <th>Dither Size</th> <th>Subpixel Positions</th> <th>Coordinated Parallel Subpixel Selector</th> <th>Dither Direct Images Primes</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NONE</td> <td></td> <td></td> <td>1</td> <td>4-POINT-SMALL-WITH-NIRISS</td> <td>NO_DITHERING</td> </tr> </tbody> </table>										#	Primary Dither Type	Primary Dithers	Dither Size	Subpixel Positions	Coordinated Parallel Subpixel Selector	Dither Direct Images Primes	1	NONE			1	4-POINT-SMALL-WITH-NIRISS	NO_DITHERING																
	#	Primary Dither Type	Primary Dithers	Dither Size	Subpixel Positions	Coordinated Parallel Subpixel Selector	Dither Direct Images Primes																																	
1	NONE			1	4-POINT-SMALL-WITH-NIRISS	NO_DITHERING																																		
<b>Spectral Elements</b>	<table border="1"> <thead> <tr> <th>NIRCam Imaging</th> <th>Short Filter</th> <th>Long Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Dithers</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F090W</td> <td>F277W</td> <td>MEDIUM8</td> <td>7</td> <td>3</td> <td>12</td> <td>4</td> <td>8847.098</td> <td></td> </tr> <tr> <td>2</td> <td>F150W</td> <td>F356W</td> <td>SHALLOW4</td> <td>10</td> <td>1</td> <td>4</td> <td>4</td> <td>2104.407</td> <td></td> </tr> </tbody> </table>										NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	1	F090W	F277W	MEDIUM8	7	3	12	4	8847.098		2	F150W	F356W	SHALLOW4	10	1	4	4	2104.407	
	NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID																														
	1	F090W	F277W	MEDIUM8	7	3	12	4	8847.098																															
2	F150W	F356W	SHALLOW4	10	1	4	4	2104.407																																
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	NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																														
	1	F090W		NIS	16	3	4	12	8374.681																															
2	F150W		NIS	11	1	4	4	1932.619																																

Proposal 3055 - Observation 2 - A TRGB calibration of Surface Brightness Fluctuations

Special Requirements

Aperture PA Range 315 to 90 Degrees (V3 315.0713531 to 90.0713531)  
Offset 50.0 arcsec, 30.0 arcsec  
No Parallel Attachments

Proposal 3055 - Observation 3 - A TRGB calibration of Surface Brightness Fluctuations

Wed Sep 27 01:00:11 GMT 2023

<b>Observation</b>	<b>Proposal 3055, Observation 3: NGC1404</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRCam Imaging Coordinated Parallel Template(s): NIRISS Imaging									
	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>		<b>Miscellaneous</b>		
	(3)	NGC-1404	RA: 03 38 51.9170 (54.7163208d) Dec: -35 35 39.81 (-35.59439d) Equinox: J2000			Epoch of Position: 2015.5				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Galaxy</i> <i>Description=[Elliptical galaxies]</i> <i>Extended=YES</i>										
<b>Template</b>	<b>NIRCam Imaging</b>					<b>NIRISS Imaging</b>				
	Module: ALL Subarray: FULL Target Placement: Module Gap									
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>	<b>Dither Size</b>	<b>Subpixel Positions</b>		<b>Coordinated Parallel Subpixel Selector</b>		<b>Dither Direct Images Primes</b>
	1	NONE				1		4-POINT-SMALL-WITH-NIRISS		NO_DITHERING
<b>Spectral Elements</b>	<b>NIRCam Imaging</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F090W	F277W	MEDIUM8	7	3	12	4	8847.098	
	2	F150W	F356W	SHALLOW4	10	1	4	4	2104.407	
<b>Spectral Elements</b>	<b>NIRISS Imaging</b>	<b>Filter</b>	<b>Grism</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F090W		NIS	16	3	4	12	8374.681	
	2	F150W		NIS	11	1	4	4	1932.619	

## Proposal 3055 - Observation 3 - A TRGB calibration of Surface Brightness Fluctuations

### Special Requirements

Aperture PA Range 312 to 15 Degrees (V3 312.0713531 to 15.0713531)  
Offset 120.0 arcsec, 30.0 arcsec  
No Parallel Attachments

Proposal 3055 - Observation 4 - A TRGB calibration of Surface Brightness Fluctuations

Wed Sep 27 01:00:11 GMT 2023

<b>Observation</b>	<b>Proposal 3055, Observation 4: M84-NGC4374</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRCam Imaging Coordinated Parallel Template(s): NIRISS Imaging																																							
	(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																							
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>MESSIER-084</td> <td>RA: 12 25 3.7432 (186.2655967d) Dec: +12 53 13.14 (12.88698d) Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>  <i>Category=Galaxy</i>  <i>Description=[Elliptical galaxies]</i>  <i>Extended=YES</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(4)	MESSIER-084	RA: 12 25 3.7432 (186.2655967d) Dec: +12 53 13.14 (12.88698d) Equinox: J2000	Epoch of Position: 2015.5																					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																			
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<b>NIRCam Imaging</b>					<b>NIRISS Imaging</b>																																			
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	Subarray: FULL																																							
Target Placement: Module Gap																																								
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2	F150W	F356W	SHALLOW4	6	1	4	4	1245.465																																
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	NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																														
	1	F090W		NIS	14	2	4	8	4895.967																															
2	F150W		NIS	7	1	4	4	1245.465																																

## Proposal 3055 - Observation 4 - A TRGB calibration of Surface Brightness Fluctuations

### Special Requirements

Aperture PA Range 130 to 270 Degrees (V3 130.0713531 to 270.0713531)  
Offset 110.0 arcsec, 30.0 arcsec  
No Parallel Attachments

Proposal 3055 - Observation 5 - A TRGB calibration of Surface Brightness Fluctuations

Wed Sep 27 01:00:11 GMT 2023

<b>Observation</b>	<b>Proposal 3055, Observation 5: M86-NGC4406</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRCam Imaging Coordinated Parallel Template(s): NIRISS Imaging																																																
	(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(5)</td> <td>MESSIER-086</td> <td>RA: 12 26 11.8140 (186.5492250d) Dec: +12 56 45.49 (12.94597d) Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>  <i>Category=Galaxy</i>  <i>Description=[Elliptical galaxies]</i>  <i>Extended=YES</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(5)	MESSIER-086	RA: 12 26 11.8140 (186.5492250d) Dec: +12 56 45.49 (12.94597d) Equinox: J2000	Epoch of Position: 2015.5																														
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																												
(5)	MESSIER-086	RA: 12 26 11.8140 (186.5492250d) Dec: +12 56 45.49 (12.94597d) Equinox: J2000	Epoch of Position: 2015.5																																														
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<b>Spectral Elements</b>	<table border="1"> <thead> <tr> <th>NIRCam Imaging</th> <th>Short Filter</th> <th>Long Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Dithers</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F090W</td> <td>F277W</td> <td>MEDIUM8</td> <td>6</td> <td>2</td> <td>8</td> <td>4</td> <td>5024.808</td> <td></td> </tr> <tr> <td>2</td> <td>F150W</td> <td>F356W</td> <td>SHALLOW4</td> <td>6</td> <td>1</td> <td>4</td> <td>4</td> <td>1245.465</td> <td></td> </tr> </tbody> </table>										NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	1	F090W	F277W	MEDIUM8	6	2	8	4	5024.808		2	F150W	F356W	SHALLOW4	6	1	4	4	1245.465										
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	1	F090W		NIS	14	2	4	8	4895.967																																								
2	F150W		NIS	6	1	4	4	1073.677																																									

## Proposal 3055 - Observation 5 - A TRGB calibration of Surface Brightness Fluctuations

### Special Requirements

Aperture PA Range 60 to 266 Degrees (V3 60.0713531 to 266.0713531)  
Offset 110.0 arcsec, 30.0 arcsec  
No Parallel Attachments

Proposal 3055 - Observation 6 - A TRGB calibration of Surface Brightness Fluctuations

Wed Sep 27 01:00:11 GMT 2023

<b>Observation</b>	<b>Proposal 3055, Observation 6: M49-NGC4472</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRCcam Imaging Coordinated Parallel Template(s): NIRISS Imaging									
	(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(6)	MESSIER-049	RA: 12 29 46.8000 (187.4450000d) Dec: +08 00 1.00 (8.00028d) Equinox: J2000			Epoch of Position: 2015.5				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Galaxy</i> <i>Description=[Elliptical galaxies]</i> <i>Extended=YES</i>										
<b>Template</b>	<b>NIRCcam Imaging</b>					<b>NIRISS Imaging</b>				
	Module: ALL Subarray: FULL Target Placement: Module Gap									
<b>Dithers</b>	#	Primary Dither Type		Primary Dithers	Dither Size	Subpixel Positions		Coordinated Parallel Subpixel Selector	Dither Direct Images Primes	
	1	NONE				1		4-POINT-SMALL-WITH-NIRISS	NO_DITHERING	
<b>Spectral Elements</b>	<b>NIRCcam Imaging</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F090W	F277W	MEDIUM8	7	2	8	4	5883.75	
	2	F150W	F356W	SHALLOW4	6	1	4	4	1245.465	
<b>Spectral Elements</b>	<b>NIRISS Imaging</b>	<b>Filter</b>	<b>Grism</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F090W		NIS	16	2	4	8	5583.12	
	2	F150W		NIS	7	1	4	4	1245.465	

## Proposal 3055 - Observation 6 - A TRGB calibration of Surface Brightness Fluctuations

### Special Requirements

Aperture PA Range 108 to 158 Degrees (V3 108.0713531 to 158.0713531)  
Offset 120.0 arcsec, 35.0 arcsec  
No Parallel Attachments

Proposal 3055 - Observation 7 - A TRGB calibration of Surface Brightness Fluctuations

Wed Sep 27 01:00:11 GMT 2023

<b>Observation</b>	<p><b>Proposal 3055, Observation 7: M87-NGC4486</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCam Imaging</p> <p>Coordinated Parallel Template(s): NIRISS Imaging</p>																																																
	<p>(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																																
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(7)</td> <td>MESSIER-087</td> <td>RA: 12 30 49.4149 (187.7058954d) Dec: +12 23 28.21 (12.39117d) Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Galaxy</i></p> <p><i>Description=[Elliptical galaxies]</i></p> <p><i>Extended=YES</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(7)	MESSIER-087	RA: 12 30 49.4149 (187.7058954d) Dec: +12 23 28.21 (12.39117d) Equinox: J2000	Epoch of Position: 2015.5																														
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	1	F090W		NIS	16	2	4	8	5583.12																																								
2	F150W		NIS	7	1	4	4	1245.465																																									

## Proposal 3055 - Observation 7 - A TRGB calibration of Surface Brightness Fluctuations

### Special Requirements

Aperture PA Range 116 to 166 Degrees (V3 116.0713531 to 166.0713531)  
Offset -110.0 arcsec, -30.0 arcsec  
No Parallel Attachments

Proposal 3055 - Observation 8 - A TRGB calibration of Surface Brightness Fluctuations

Wed Sep 27 01:00:11 GMT 2023

<b>Observation</b>	<b>Proposal 3055, Observation 8: M89-NGC4552</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRCcam Imaging Coordinated Parallel Template(s): NIRISS Imaging									
	(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>		<b>Miscellaneous</b>		
	(8)	MESSIER-089	RA: 12 35 39.8073 (188.9158637d) Dec: +12 33 22.83 (12.55634d) Equinox: J2000			Epoch of Position: 2015.5				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Galaxy</i> <i>Description=[Elliptical galaxies]</i> <i>Extended=YES</i>										
<b>Template</b>	<b>NIRCcam Imaging</b>					<b>NIRISS Imaging</b>				
	Module: ALL Subarray: FULL Target Placement: Module Gap									
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>	<b>Dither Size</b>	<b>Subpixel Positions</b>		<b>Coordinated Parallel Subpixel Selector</b>		<b>Dither Direct Images Primes</b>
	1	NONE				1		4-POINT-SMALL-WITH-NIRISS		NO_DITHERING
<b>Spectral Elements</b>	<b>NIRCcam Imaging</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F090W	F277W	MEDIUM8	7	2	8	4	5883.75	
	2	F150W	F356W	SHALLOW4	6	1	4	4	1245.465	
<b>Spectral Elements</b>	<b>NIRISS Imaging</b>	<b>Filter</b>	<b>Grism</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F090W		NIS	16	2	4	8	5583.12	
	2	F150W		NIS	7	1	4	4	1245.465	

Proposal 3055 - Observation 8 - A TRGB calibration of Surface Brightness Fluctuations

Special Requirements

Aperture PA Range 0 to 270 Degrees (V3 0.0713531 to 270.0713531)  
Offset 110.0 arcsec, 30.0 arcsec  
No Parallel Attachments

Proposal 3055 - Observation 9 - A TRGB calibration of Surface Brightness Fluctuations

Wed Sep 27 01:00:11 GMT 2023

<b>Observation</b>	<b>Proposal 3055, Observation 9: M59-NGC4621</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRCam Imaging Coordinated Parallel Template(s): NIRISS Imaging																																							
	(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																							
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(9)</td> <td>MESSIER-059</td> <td>RA: 12 42 2.2581 (190.5094088d) Dec: +11 38 48.91 (11.64692d) Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>  <i>Category=Galaxy</i>  <i>Description=[Elliptical galaxies]</i>  <i>Extended=YES</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(9)	MESSIER-059	RA: 12 42 2.2581 (190.5094088d) Dec: +11 38 48.91 (11.64692d) Equinox: J2000	Epoch of Position: 2015.5																					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																			
(9)	MESSIER-059	RA: 12 42 2.2581 (190.5094088d) Dec: +11 38 48.91 (11.64692d) Equinox: J2000	Epoch of Position: 2015.5																																					
<b>NIRCam Imaging</b>					<b>NIRISS Imaging</b>																																			
<b>Template</b>	Module: ALL																																							
	Subarray: FULL																																							
Target Placement: Module Gap																																								
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1	NONE			1	4-POINT-SMALL-WITH-NIRISS	NO_DITHERING																																		
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2	F150W		NIS	7	1	4	4	1245.465																																

## Proposal 3055 - Observation 9 - A TRGB calibration of Surface Brightness Fluctuations

### Special Requirements

Aperture PA Range 0 to 135 Degrees (V3 0.0713531 to 135.0713531)  
Offset 110.0 arcsec, 30.0 arcsec  
No Parallel Attachments

# Proposal 3055 - Observation 10 - A TRGB calibration of Surface Brightness Fluctuations

Wed Sep 27 01:00:11 GMT 2023

<b>Observation</b>	<b>Proposal 3055, Observation 10: M60-NGC4649</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRCam Imaging Coordinated Parallel Template(s): NIRISS Imaging																																							
<b>Diagnostics</b>	(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																							
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(10)</td> <td>MESSIER-060</td> <td>RA: 12 43 39.9680 (190.9165333d) Dec: +11 33 9.70 (11.55269d) Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>  <i>Category=Galaxy</i>  <i>Description=[Elliptical galaxies]</i>  <i>Extended=YES</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(10)	MESSIER-060	RA: 12 43 39.9680 (190.9165333d) Dec: +11 33 9.70 (11.55269d) Equinox: J2000	Epoch of Position: 2015.5																					
#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																				
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<b>Template</b>	<b>NIRCam Imaging</b> <span style="float: right;"><b>NIRISS Imaging</b></span> Module: ALL Subarray: FULL Target Placement: Module Gap																																							
<b>Dithers</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Dither Type</th> <th>Primary Dithers</th> <th>Dither Size</th> <th>Subpixel Positions</th> <th>Coordinated Parallel Subpixel Selector</th> <th>Dither Direct Images Primes</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NONE</td> <td></td> <td></td> <td>1</td> <td>4-POINT-SMALL-WITH-NIRISS</td> <td>NO_DITHERING</td> </tr> </tbody> </table>										#	Primary Dither Type	Primary Dithers	Dither Size	Subpixel Positions	Coordinated Parallel Subpixel Selector	Dither Direct Images Primes	1	NONE			1	4-POINT-SMALL-WITH-NIRISS	NO_DITHERING																
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NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																															
1	F090W		NIS	16	2	4	8	5583.12																																
2	F150W		NIS	7	1	4	4	1245.465																																

## Proposal 3055 - Observation 10 - A TRGB calibration of Surface Brightness Fluctuations

### Special Requirements

Aperture PA Range 55 to 120 Degrees (V3 55.0713531 to 120.0713531)  
Offset 110.0 arcsec, -30.0 arcsec  
No Parallel Attachments

# Proposal 3055 - Observation 11 - A TRGB calibration of Surface Brightness Fluctuations

Wed Sep 27 01:00:11 GMT 2023

<b>Observation</b>	<p><b>Proposal 3055, Observation 11: NGC4697</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCam Imaging</p>									
<b>Diagnostics</b>	(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(11)	NGC-4697	RA: 12 48 35.8981 (192.1495754d) Dec: -05 48 2.48 (-5.80069d) Equinox: J2000		Epoch of Position: 2015.5					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Galaxy</i></p> <p><i>Description=[Elliptical galaxies]</i></p> <p><i>Extended=YES</i></p>									
<b>Template</b>	<b>Module</b>		<b>Subarray</b>			<b>Target Placement</b>				
	ALL		FULL			Module Gap				
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>		<b>Subpixel Dither Type</b>		<b>Dither Size</b>	<b>Subpixel Positions</b>	
	1	NONE				SMALL-GRID-DITHER			4	
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F090W	F277W	MEDIUM8	7	1	4	4	2920.401	
	2	F150W	F356W	SHALLOW4	5	1	4	4	1030.73	
<b>Special Requirements</b>	<p>Aperture PA Range 85 to 135 Degrees (V3 85.0713531 to 135.0713531)</p> <p>Offset 110.0 arcsec, 30.0 arcsec</p>									

Proposal 3055 - Observation 12 - A TRGB calibration of Surface Brightness Fluctuations

Wed Sep 27 01:00:11 GMT 2023

<b>Observation</b>	<b>Proposal 3055, Observation 12: NGC1549</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRCam Imaging Coordinated Parallel Template(s): NIRISS Imaging																																							
	(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																							
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(12)</td> <td>NGC-1549</td> <td>RA: 04 15 45.2230 (63.9384292d) Dec: -55 35 32.50 (-55.59236d) Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>  <i>Category=Galaxy</i>  <i>Description=[Elliptical galaxies]</i>  <i>Extended=YES</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(12)	NGC-1549	RA: 04 15 45.2230 (63.9384292d) Dec: -55 35 32.50 (-55.59236d) Equinox: J2000	Epoch of Position: 2015.5																					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																			
(12)	NGC-1549	RA: 04 15 45.2230 (63.9384292d) Dec: -55 35 32.50 (-55.59236d) Equinox: J2000	Epoch of Position: 2015.5																																					
<b>NIRCam Imaging</b>					<b>NIRISS Imaging</b>																																			
<b>Template</b>	Module: ALL																																							
	Subarray: FULL																																							
Target Placement: Module Gap																																								
<b>Dithers</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Dither Type</th> <th>Primary Dithers</th> <th>Dither Size</th> <th>Subpixel Positions</th> <th>Coordinated Parallel Subpixel Selector</th> <th>Dither Direct Images Primes</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NONE</td> <td></td> <td></td> <td>1</td> <td>4-POINT-SMALL-WITH-NIRISS</td> <td>NO_DITHERING</td> </tr> </tbody> </table>										#	Primary Dither Type	Primary Dithers	Dither Size	Subpixel Positions	Coordinated Parallel Subpixel Selector	Dither Direct Images Primes	1	NONE			1	4-POINT-SMALL-WITH-NIRISS	NO_DITHERING																
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	NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																														
	1	F090W		NIS	16	3	4	12	8374.681																															
2	F150W		NIS	11	1	4	4	1932.619																																

## Proposal 3055 - Observation 12 - A TRGB calibration of Surface Brightness Fluctuations

### Special Requirements

Aperture PA Range 260 to 300 Degrees (V3 260.0713531 to 300.0713531)  
Aperture PA Range 318 to 346 Degrees (V3 318.0713531 to 346.0713531)  
Offset 110.0 arcsec, 27.0 arcsec  
No Parallel Attachments

Proposal 3055 - Observation 13 - A TRGB calibration of Surface Brightness Fluctuations

Wed Sep 27 01:00:11 GMT 2023

<b>Observation</b>	<p><b>Proposal 3055, Observation 13: NGC3379</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCam Imaging</p> <p>Coordinated Parallel Template(s): NIRISS Imaging</p>																																							
<b>Diagnostics</b>	(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																							
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(13)</td> <td>MESSIER-105</td> <td>RA: 10 47 49.6000 (161.9566667d) Dec: +12 34 53.87 (12.58163d) Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>  <i>Category=Galaxy</i>  <i>Description=[Elliptical galaxies]</i>  <i>Extended=YES</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(13)	MESSIER-105	RA: 10 47 49.6000 (161.9566667d) Dec: +12 34 53.87 (12.58163d) Equinox: J2000	Epoch of Position: 2015.5																					
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<b>Template</b>	<p><b>NIRCam Imaging</b> <span style="float: right;"><b>NIRISS Imaging</b></span></p> <p>Module: ALL</p> <p>Subarray: FULL</p> <p>Target Placement: Module Gap</p>																																							
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NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																															
1	F090W		NIS	16	1	4	4	2791.56																																
2	F150W		NIS	4	1	4	4	730.1																																

## Proposal 3055 - Observation 13 - A TRGB calibration of Surface Brightness Fluctuations

### Special Requirements

Aperture PA Range 65 to 115 Degrees (V3 65.0713531 to 115.0713531)  
Offset 110.0 arcsec, 30.0 arcsec  
No Parallel Attachments

Proposal 3055 - Observation 14 - A TRGB calibration of Surface Brightness Fluctuations

Wed Sep 27 01:00:11 GMT 2023

<b>Observation</b>	<p><b>Proposal 3055, Observation 14: NGC4636</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCam Imaging</p>									
<b>Diagnostics</b>	(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(14)	NGC-4636	RA: 12 42 49.8333 (190.7076388d) Dec: +02 41 15.95 (2.68776d) Equinox: J2000		Epoch of Position: 2015.5					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Galaxy</i></p> <p><i>Description=[Elliptical galaxies]</i></p> <p><i>Extended=YES</i></p>									
<b>Template</b>	<b>Module</b>		<b>Subarray</b>			<b>Target Placement</b>				
	ALL		FULL			Module Gap				
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>		<b>Subpixel Dither Type</b>		<b>Dither Size</b>	<b>Subpixel Positions</b>	
	1	NONE				SMALL-GRID-DITHER			4	
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F090W	F277W	MEDIUM8	7	2	8	4	5883.75	
	2	F150W	F356W	SHALLOW4	6	1	4	4	1245.465	
<b>Special Requirements</b>	<p>Aperture PA Range 117 to 162 Degrees (V3 117.0713531 to 162.0713531)</p> <p>Offset 110.0 arcsec, 30.0 arcsec</p>									