



4443 - NIRCcam and NIRISS Sky Flats

Cycle: 2, Proposal Category: CAL/NIRCAM

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Ben Sunnquist (PI)	Space Telescope Science Institute
Dr. Martha L. Boyer (CoI) (Contact)	Space Telescope Science Institute
Dr. Kevin Volk (CoI) (CSA Member)	Space Telescope Science Institute - CSA - JWST

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1	Monitor w/ NIRISS	NIRCcam Imaging	(9) ECLIPTIC-RA160
	2	Monitor w/ NIRISS	NIRCcam Imaging	(11) ECLIPTIC-RA200
	3	Monitor w/ NIRISS	NIRCcam Imaging	(1) ECLIPTIC-RA00
	4	Monitor w/ NIRISS	NIRCcam Imaging	(3) ECLIPTIC-RA40
	5	Monitor w/ NIRISS	NIRCcam Imaging	(5) ECLIPTIC-RA80
	6	Monitor w/ NIRISS	NIRCcam Imaging	(7) ECLIPTIC-RA120

ABSTRACT

Instead of taking dedicated sky flats during Cycle 2, we will use the deep field GTO data to reconstruct P-flats in a subset of filters. Since we cannot control when the GTO data are obtained, we will also monitor the stability of the sky flats with the F070W and F277W filter pair. We will obtain 6 epochs, which are scheduled in parallel with NIRISS sky flats. Large scale frequency variations in the NIRCcam illumination pattern (L-flats) will be measured in CAL-NIRCAM-203, in combination with the data from this program and GTO data.

This calibration program may change in response to system developments and the final Cycle 2 science program.

OBSERVING DESCRIPTION

CAL-NIRCAM-202: NIRCcam Sky Flat Field Monitor

Baseline sky flats will be constructed from GTO data of deep fields. This program will monitor the stability of the sky flats in the F070W and F277W filters over 6 epochs throughout Cycle 2. Each epoch uses the DEEP8 pattern with NGROUP=4 and a 17-point INTRASCA dither, for a total exposure time of ~12,500s. This provides roughly 5000 e-/pix in F090W and 34,000 e-/pix in F444W, assuming a high-background region near the ecliptic plane.

NIRISS flats are taken in parallel -- two epochs in F200W, and one epoch each for F090W, F115W, F150W, and F444W.

A Special Requirement is set to space the epochs throughout Cycle 2.

Proposal 4443 - Targets - NIRCam and NIRISS Sky Flats

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	ECLIPTIC-RA00	RA: 00 37 22.6530 (9.3443875d) Dec: +01 25 50.53 (1.43070d) Equinox: J2000		
<i>Comments: Category=Calibration Description=[External flat field]</i>				
(2)	ECLIPTIC-RA20	RA: 01 50 36.5120 (27.6521333d) Dec: +11 32 18.10 (11.53836d) Equinox: J2000		
<i>Comments: Category=Calibration Description=[External flat field]</i>				
(3)	ECLIPTIC-RA40	RA: 03 56 13.5780 (59.0565750d) Dec: -09 17 39.52 (-9.29431d) Equinox: J2000		
<i>Comments: Category=Calibration Description=[External flat field]</i>				
(4)	ECLIPTIC-RA60	RA: 07 07 38.0400 (106.9085000d) Dec: +27 33 47.11 (27.56309d) Equinox: J2000		
<i>Comments: Category=Calibration Description=[External flat field]</i>				
(5)	ECLIPTIC-RA80	RA: 08 16 26.3285 (124.1097021d) Dec: +19 11 28.72 (19.19131d) Equinox: J2000		
<i>Comments: Category=Calibration Description=[External flat field]</i>				
(6)	ECLIPTIC-RA10	RA: 10 11 30.0400 (152.8751667d) Dec: +11 42 6.11 (11.70170d) Equinox: J2000		
<i>Comments: Category=Calibration Description=[External flat field]</i>				
(7)	ECLIPTIC-RA120	RA: 12 03 47.2300 (180.9467917d) Dec: +04 45 23.79 (4.75661d) Equinox: J2000		
<i>Comments: Category=Calibration Description=[External flat field]</i>				
(8)	ECLIPTIC-RA140	RA: 14 02 31.5220 (210.6313417d) Dec: -04 30 44.15 (-4.51226d) Equinox: J2000		
<i>Comments: Category=Calibration Description=[External flat field]</i>				

Fixed Targets

Proposal 4443 - Targets - NIRCам and NIRISS Sky Flats

(9)	ECLIPTIC-RA160	RA: 16 00 23.4186 (240.0975775d) Dec: -11 38 58.56 (-11.64960d) Equinox: J2000
<i>Comments:</i> <i>Category=Calibration</i> <i>Description=[External flat field]</i>		
(10)	ECLIPTIC-RA180	RA: 18 59 29.4100 (284.8725417d) Dec: -43 53 21.12 (-43.88920d) Equinox: J2000
<i>Comments:</i> <i>Category=Calibration</i> <i>Description=[External flat field]</i>		
(11)	ECLIPTIC-RA200	RA: 20 15 21.9600 (303.8415000d) Dec: -26 49 59.90 (-26.83331d) Equinox: J2000
<i>Comments:</i> <i>Category=Calibration</i> <i>Description=[External flat field]</i>		
(12)	ECLIPTIC-RA220	RA: 22 04 31.9200 (331.1330000d) Dec: -11 49 18.90 (-11.82192d) Equinox: J2000
<i>Comments:</i> <i>Category=Calibration</i> <i>Description=[External flat field]</i>		

Proposal 4443 - Observation 1 - NIRCcam and NIRISS Sky Flats

Thu Aug 03 18:01:11 GMT 2023

Observation	<p>Proposal 4443, Observation 1: Monitor w/ NIRISS</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p> <p>Coordinated Parallel Template(s): NIRISS Imaging</p>									
Diagnostics	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(9)	ECLIPTIC-RA160	RA: 16 00 23.4186 (240.0975775d) Dec: -11 38 58.56 (-11.64960d) Equinox: J2000							
	<p><i>Comments:</i> <i>Category=Calibration</i> <i>Description=External flat field</i></p>									
Template	NIRCcam Imaging					NIRISS Imaging				
	<p>Module: ALL</p> <p>Subarray: FULL</p> <p>Target Placement: Module Gap</p>									
Dithers	#	Primary Dither Type		Primary Dithers	Dither Size	Subpixel Positions		Coordinated Parallel Subpixel Selector		Dither Direct Images Primes
	1	INTRASCA		17	16" (MEDIUM)	1		NIRCcam Only		NO_DITHERING
Spectral Elements	NIRCcam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F070W	F277W	DEEP8	4	1	17	17	12411.706	
Spectral Elements	NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W		NIS	16	1	17	17	11864.131	

Proposal 4443 - Observation 1 - NIRCam and NIRISS Sky Flats

Special Requirements

Between Dates 01-JUL-2023:00:00:00 and 15-AUG-2023:00:00:00
No Parallel Attachments

2 After 1 by 50 Days to 70 Days

Proposal 4443 - Observation 2 - NIRCcam and NIRISS Sky Flats

Thu Aug 03 18:01:11 GMT 2023

Observation	Proposal 4443, Observation 2: Monitor w/ NIRISS Diagnostic Status: Warning Observing Template: NIRCcam Imaging Coordinated Parallel Template(s): NIRISS Imaging									
Diagnostics	(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(11)	ECLIPTIC-RA200	RA: 20 15 21.9600 (303.8415000d) Dec: -26 49 59.90 (-26.83331d) Equinox: J2000							
	<i>Comments:</i> Category=Calibration Description=External flat field									
Template	NIRCcam Imaging					NIRISS Imaging				
	Module: ALL Subarray: FULL Target Placement: Module Gap									
Dithers	#	Primary Dither Type		Primary Dithers	Dither Size	Subpixel Positions		Coordinated Parallel Subpixel Selector		Dither Direct Images Primes
	1	INTRASCA		17	16" (MEDIUM)	1		NIRCcam Only		NO_DITHERING
Spectral Elements	NIRCcam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F070W	F277W	DEEP8	4	1	17	17	12411.706	
Spectral Elements	NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W		NIS	16	1	17	17	11864.131	

Proposal 4443 - Observation 2 - NIRCam and NIRISS Sky Flats

Special Requirements

No Parallel Attachments

2 After 1 by 50 Days to 70 Days

3 After 2 by 50 Days to 70 Days

Proposal 4443 - Observation 3 - NIRCcam and NIRISS Sky Flats

Thu Aug 03 18:01:11 GMT 2023

Observation	<p>Proposal 4443, Observation 3: Monitor w/ NIRISS</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p> <p>Coordinated Parallel Template(s): NIRISS Imaging</p>																																		
Diagnostics	<p>(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 3:2) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 3:3) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 3:4) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 3:5) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 3:6) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																		
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<i>Comments:</i>																																			
<i>Category=Calibration</i>																																			
<i>Description=[External flat field]</i>																																			
Template	<p>NIRCcam Imaging</p> <p>Module: ALL</p> <p>Subarray: FULL</p> <p>Target Placement: Module Gap</p>					<p>NIRISS Imaging</p>																													
Dithers	<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>INTRASCA</td> <td>17</td> <td>16" (MEDIUM)</td> <td>1</td> <td>NIRCcam Only</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	INTRASCA	17	16" (MEDIUM)	1	NIRCcam Only	NO_DITHERING											
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1	INTRASCA	17	16" (MEDIUM)	1	NIRCcam Only	NO_DITHERING																													
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NIRCcam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID																										
1	F070W	F277W	DEEP8	4	1	17	17	12411.706																											
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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	F277W		NIS	16	1	17	17	11864.131																											

Proposal 4443 - Observation 3 - NIRCam and NIRISS Sky Flats

Special Requirements

Sequence Visits within 53.0 Days
Visits Same PA
No Parallel Attachments
3 After 2 by 50 Days to 70 Days
4 After 3 by 50 Days to 70 Days

Proposal 4443 - Observation 4 - NIRCcam and NIRISS Sky Flats

Thu Aug 03 18:01:11 GMT 2023

Observation	Proposal 4443, Observation 4: Monitor w/ NIRISS Diagnostic Status: Warning Observing Template: NIRCcam Imaging Coordinated Parallel Template(s): NIRISS Imaging									
Diagnostics	(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(3)	ECLIPTIC-RA40	RA: 03 56 13.5780 (59.0565750d) Dec: -09 17 39.52 (-9.29431d) Equinox: J2000							
	<i>Comments:</i> Category=Calibration Description= External flat field									
Template	NIRCcam Imaging					NIRISS Imaging				
	Module: ALL Subarray: FULL Target Placement: Module Gap									
Dithers	#	Primary Dither Type		Primary Dithers	Dither Size	Subpixel Positions		Coordinated Parallel Subpixel Selector	Dither Direct Images Primes	
	1	INTRASCA		17	16" (MEDIUM)	1		NIRCcam Only	NO_DITHERING	
Spectral Elements	NIRCcam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F070W	F277W	DEEP8	4	1	17	17	12411.706	
Spectral Elements	NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F356W		NIS	16	1	17	17	11864.131	

Proposal 4443 - Observation 4 - NIRCam and NIRISS Sky Flats

Special Requirements

No Parallel Attachments

4 After 3 by 50 Days to 70 Days

5 After 4 by 50 Days to 70 Days

Proposal 4443 - Observation 5 - NIRCcam and NIRISS Sky Flats

Thu Aug 03 18:01:11 GMT 2023

Observation	Proposal 4443, Observation 5: Monitor w/ NIRISS Diagnostic Status: Warning Observing Template: NIRCcam Imaging Coordinated Parallel Template(s): NIRISS Imaging									
Diagnostics	(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(5)	ECLIPTIC-RA80	RA: 08 16 26.3285 (124.1097021d) Dec: +19 11 28.72 (19.19131d) Equinox: J2000							
	<i>Comments:</i> Category=Calibration Description=[External flat field]									
Template	NIRCcam Imaging					NIRISS Imaging				
	Module: ALL Subarray: FULL Target Placement: Module Gap									
Dithers	#	Primary Dither Type		Primary Dithers	Dither Size	Subpixel Positions		Coordinated Parallel Subpixel Selector		Dither Direct Images Primes
	1	INTRASCA		17	16" (MEDIUM)	1		NIRCcam Only		NO_DITHERING
Spectral Elements	NIRCcam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F070W	F277W	DEEP8	4	1	17	17	12411.706	
Spectral Elements	NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F480M		NIS	16	1	17	17	11864.131	

Proposal 4443 - Observation 5 - NIRCam and NIRISS Sky Flats

Special Requirements

No Parallel Attachments

5 After 4 by 50 Days to 70 Days

6 After 5 by 50 Days to 70 Days

Proposal 4443 - Observation 6 - NIRCcam and NIRISS Sky Flats

Thu Aug 03 18:01:11 GMT 2023

Observation	Proposal 4443, Observation 6: Monitor w/ NIRISS Diagnostic Status: Warning Observing Template: NIRCcam Imaging Coordinated Parallel Template(s): NIRISS Imaging																																		
Diagnostics	(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 6:2) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 6:3) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 6:4) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 6:5) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 6:6) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																		
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Special Requirements

Sequence Visits within 53.0 Days
Visits Same PA
No Parallel Attachments
6 After 5 by 50 Days to 70 Days