



1475 - NIRCам Sky Flat Field Monitor

Cycle: 1, Proposal Category: CAL/NIRCAM

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Martha L. Boyer (PI)	Space Telescope Science Institute
Dr. Kevin Volk (CoI) (Contact)	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	NIRCам Imaging	(4) ECLIPTIC-RA00
	2	Monitor w/ NIRISS	NIRCам Imaging	(6) ECLIPTIC-RA40
	3	Monitor w/ NIRISS	NIRCам Imaging	(8) ECLIPTIC-RA80
	4	Monitor w/ NIRISS	NIRCам Imaging	(10) ECLIPTIC-RA120
	5	Monitor w/ NIRISS	NIRCам Imaging	(12) ECLIPTIC-RA160
	6	Monitor w/ NIRISS	NIRCам Imaging	(14) ECLIPTIC-RA200

ABSTRACT

Instead of taking dedicated sky flats during Cycle 1, we will use the deep field GTO data to reconstruct P-flats in a subset of filters. Analysis of the CV3 flats suggest wavelength dependence in the P-flat is generally <1% in all detectors (though it appears to reach as high as 2% in some pixels on the tail-end of the distribution), so there is no need to take additional flats in the remaining filters unless on-sky commissioning data present different results. Since we cannot control when the GTO data are obtained, we will also monitor the stability of the sky flats with the F150W and F444W filter pair. We will obtain 6 epochs, which are scheduled in parallel with NIRISS sky flats. Large scale frequency variations in the NIRCам illumination pattern (L-flats) will be measured in CAL-NIRCAM-003, in combination with the data from this program.

This calibration program is provisional and may change in response to system developments and the final science program.

OBSERVING DESCRIPTION

CAL-NIRCAM-002: 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 F150W and F444W filters over 6 epochs throughout Cycle 1. 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 Galactic plane.

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

Targets selected for an Oct 31, 2021 launch date.

A Special Requirement is set to space the epochs throughout Cycle 1.

UPDATE Jan 21, 2022 MBoyer:

Updated timing constraint and target selection for the Dec 25 launch

UPDATE Jun 29, 2022 MBoyer:

-Changed primary dither from small --> medium

-Adjusted targets slightly to avoid what look like extended galaxies

Proposal 1475 - Targets - NIRCam Sky Flat Field Monitor

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

Fixed Targets

Proposal 1475 - Targets - NIRCcam Sky Flat Field Monitor

(12)	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>		
(13)	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>		
(14)	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>		
(15)	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 1475 - Observation 1 - NIRCcam Sky Flat Field Monitor

Mon Mar 27 23:00:28 GMT 2023

Observation	Proposal 1475, Observation 1: Monitor w/ NIRISS Diagnostic Status: Warning Observing Template: NIRCcam Imaging Coordinated Parallel Template(s): NIRISS Imaging																																		
Diagnostics	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 1:2) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 1:3) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 1:4) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 1:5) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 1:6) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																		
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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	F200W		NIS	16	1	17	17	11864.131																											

Proposal 1475 - Observation 1 - NIRCcam Sky Flat Field Monitor

Special Requirements

Between Dates 01-JUL-2022:00:00:00 and 15-AUG-2022:00:00:00
Group Visits within 53.0 Days
Aperture PA Range 229 to 247 Degrees (V3 229.0713531 to 247.0713531)
Aperture PA Range 280 to 314 Degrees (V3 280.0713531 to 314.0713531)
Aperture PA Range 347 to 189 Degrees (V3 347.0713531 to 189.0713531)
Visits Same PA
No Parallel Attachments

Proposal 1475 - Observation 2 - NIRCcam Sky Flat Field Monitor

Mon Mar 27 23:00:28 GMT 2023

Observation	Proposal 1475, 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		
	(6)	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	F090W	F444W	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 1475 - Observation 2 - NIRCam Sky Flat Field Monitor

Special Requirements

No Parallel Attachments

Proposal 1475 - Observation 3 - NIRCcam Sky Flat Field Monitor

Mon Mar 27 23:00:28 GMT 2023

Observation	<p>Proposal 1475, 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	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(8)	ECLIPTIC-RA80	RA: 08 16 26.3285 (124.1097021d) Dec: +19 11 28.72 (19.19131d) 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	F090W	F444W	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	F444W		NIS	16	1	17	17	11864.131	

Proposal 1475 - Observation 3 - NIRCam Sky Flat Field Monitor

Special Requirements

No Parallel Attachments

4 After 3 by 50 Days to 70 Days

Proposal 1475 - Observation 4 - NIRCcam Sky Flat Field Monitor

Mon Mar 27 23:00:28 GMT 2023

Observation	Proposal 1475, 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. (Visit 4:2) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 4:3) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 4:4) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 4:5) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 4:6) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																		
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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																										
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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	17	17	11864.131																											

Proposal 1475 - Observation 4 - NIRCcam Sky Flat Field Monitor

Special Requirements

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

Proposal 1475 - Observation 5 - NIRCcam Sky Flat Field Monitor

Mon Mar 27 23:00:28 GMT 2023

Observation	<p>Proposal 1475, Observation 5: 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 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(12)	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	F090W	F444W	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	F115W		NIS	16	1	17	17	11864.131	

Proposal 1475 - Observation 5 - NIRCam Sky Flat Field Monitor

Special Requirements

No Parallel Attachments

5 After 4 by 50 Days to 70 Days

6 After 5 by 50 Days to 70 Days

Proposal 1475 - Observation 6 - NIRCcam Sky Flat Field Monitor

Mon Mar 27 23:00:29 GMT 2023

Observation	<p>Proposal 1475, Observation 6: 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 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(14)	ECLIPTIC-RA200	RA: 20 15 21.9600 (303.8415000d) Dec: -26 49 59.90 (-26.83331d) 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	F090W	F444W	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	F150W		NIS	16	1	17	17	11864.131	

Proposal 1475 - Observation 6 - NIRCam Sky Flat Field Monitor

Special Requirements

No Parallel Attachments

6 After 5 by 50 Days to 70 Days