



8303 - CAL-MIRI-411 MIRI Background Monitor

Cycle: 4, Proposal Category: CAL/MIRI

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Alberto Noriega-Crespo (PI)	Space Telescope Science Institute
Ms. Misty Cracraft (CoI) (Contact)	Space Telescope Science Institute
Dr. Kirsten L. Larson (CoI)	Space Telescope Science Institute
Dr. Kate Rowlands (CoI) (ESA Member) (Contact)	Space Telescope Science Institute - ESA - JWST
Dr. Greg Sloan (CoI)	Space Telescope Science Institute

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
miri 411 Background Monitoring program				
	1	Month 1 Background on MRS (F2550W)	MIRI Medium Resolution Spectroscopy	(1) Clean_North_CVZ_MRS
	2	Month 1 Background on Imager :F2100W	MIRI Medium Resolution Spectroscopy	(2) Clean_North_CVZ_IMA_back
	3	Month 2 Background on MRS (F1800W)	MIRI Medium Resolution Spectroscopy	(1) Clean_North_CVZ_MRS
	4	Month 2 Background on Imager: F2500W	MIRI Medium Resolution Spectroscopy	(2) Clean_North_CVZ_IMA_back
	5	Month 3 Background on MRS (F2100W)	MIRI Medium Resolution Spectroscopy	(1) Clean_North_CVZ_MRS
	6	Month 3 Background on Imager: F1800W	MIRI Medium Resolution Spectroscopy	(2) Clean_North_CVZ_IMA_back
	7	Month 4 Background on MRS (F2500W)	MIRI Medium Resolution Spectroscopy	(1) Clean_North_CVZ_MRS
	8	Month 4 Background on Imager: F2100W	MIRI Medium Resolution Spectroscopy	(2) Clean_North_CVZ_IMA_back

Folder	Observation	Label	Observing Template	Science Target
	9	Month 5 Background on MRS (F1800W)	MIRI Medium Resolution Spectroscopy	(1) Clean_North_CVZ_MRS
	10	Month 5 Background on Imager: F2550W	MIRI Medium Resolution Spectroscopy	(2) Clean_North_CVZ_IMA_back
	11	Month 6 Background on MRS (F2100W)	MIRI Medium Resolution Spectroscopy	(1) Clean_North_CVZ_MRS
	12	Month 6 Background on Imager: F1800W	MIRI Medium Resolution Spectroscopy	(2) Clean_North_CVZ_IMA_back
Missing IM+Coronagraph Filters				
	50	Imager+CoronaFilters	MIRI External Flat	(3) Clean_North_CVZ_IMA_direct

ABSTRACT

Monitor the thermal emission of the observatory using MIRI data at the longest wavelengths, where its contribution is the highest. The data is key to constrain the JWST Background model, an important component to determine the properties of long science exposures at those wavelengths. The method relies on the experience obtained during Cycle3, where the monitoring began. MIRI Images at 25, 21, 18 and 12.8 micron are now included, in order to provide a more complete set of measurements for long wavelength imager filters. In all cases there are MRS simultaneous exposures, that are obtained in a selected region of the sky where the contribution of the Astronomical infrared background (ISM & Zodiacal light) is minimum, and therefore, the main contribution is dominated by the observatory thermal emission.

Based on a request of the project we have added 4 imager filters that would be tracked as well (F5600w, F1000W, F1280W & F1500W).

Based on further request from the project, the Coronagraph filters have been added (one time shot), and the missing F770W and 1130W of the Imager.

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

OBSERVING DESCRIPTION

This version of the program will target a field near then northern CVZ. Previous versions used a target in the southern CVZ in the LMC, which is too complex of a field in the infrared for our purposes.

Each epoch includes one observation with MRS in all three grating settings and five long-wavelength Imaging filters (12.8, 15, 18, 21 and 25um) in parallel, and using the "background" to do so, but the measuremts are meant to be valid by themselves.

TIMING CONSTRAINTS:

Observations will be obtained on a bi-monthly cadence starting on August 2025 (to match the two months cadence since the last observation in Cycle 3).

Proposal 8303 - Targets - CAL-MIRI-411 MIRI Background Monitor

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
	(1)	Clean_North_CVZ_MRS	RA: 17 22 57.8600 (260.7410833d) Dec: +65 46 13.10 (65.77031d) Equinox: J2000	Epoch of Position: 2000	
	Comments: This is a relatively clean field near the NEP, i.e. based on the PEARLS (PID 2738) NIRCcam image at F444W, the pointing shows a minimum of galaxies and no stars. Category=Calibration Description=[Stray light test, Telescope/sky background] Extended=YES				
	(2)	Clean_North_CVZ_IMA_back	RA: 17 22 57.8600 (260.7410833d) Dec: +65 46 13.10 (65.77031d) Equinox: J2000	Epoch of Position: 2000	
	Comments: This is a relatively clean field near the NEP, i.e. based on the PEARLS (PID 2738) NIRCcam image at F444W, the pointing shows a minimum of galaxies and no stars. Category=Calibration Description=[Stray light test, Telescope/sky background] Extended=YES				
	(3)	Clean_North_CVZ_IMA_dire ct	RA: 17 22 57.8600 (260.7410833d) Dec: +65 46 13.10 (65.77031d) Equinox: J2000	Epoch of Position: 2000	
	Comments: This is a relatively clean field near the NEP, i.e. based on the PEARLS (PID 2738) NIRCcam image at F444W, the pointing shows a minimum of galaxies and no stars at long wavelngths. At the shorter wavelwnghs there are a few more stars, but still a reasonable field. No selected as a background, contains no MRS observations, but it is the same pointing Category=Calibration Description=[Stray light test, Telescope/sky background] Extended=YES				

Proposal 8303 - Observation 1 - CAL-MIRI-411 MIRI Background Monitor

Observation	Proposal 8303, Observation 1: Month 1 Background on MRS (F2550W)													Tue Mar 17 22:00:11 GMT 2026	
	Diagnostic Status: Warning														
	Observing Template: MIRI Medium Resolution Spectroscopy														
	Background Observations:[Month 1 Background on Imager :F2100W (Obs 2)]														
Diagnostics	(Month 1 Background on MRS (F2550W) (Obs 1)) Warning (Form): Filter mismatch between science and background observations may result in incorrect background subtraction.														
	(Month 1 Background on MRS (F2550W) (Obs 1)) Warning (Form): Imager Filter overlap.														
	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.														
Fixed Targets	#	Name		Target Coordinates			Targ. Coord. Corrections				Miscellaneous				
	(1)	Clean_North_CVZ_MRS		RA: 17 22 57.8600 (260.7410833d)			Epoch of Position: 2000								
				Dec: +65 46 13.10 (65.77031d)											
				Equinox: J2000											
		Comments: This is a relatively clean field near the NEP, i.e. based on the PEARLS (PID 2738) NIRcam image at F444W, the pointing shows a minimum of galaxies and no stars. Category=Calibration Description=[Stray light test, Telescope/sky background] Extended=YES													
Acquisition	#	Target													
	1	NONE													
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
		All MRS			YES			FULL			Allow Auto Reorder				
Dithers	#	Dither Type					Optimized For				Direction				
	1	2-Point					POINT SOURCE				NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	MRS Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID	
	1		IMAGER		F560W	FASTR1	120	1	1	Dither 1	2	2	666.01		
	1	SHORT(A)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	1	SHORT(A)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	2		IMAGER		F1000W	FASTR1	120	1	1	Dither 1	2	2	666.01		
	2	MEDIUM(B)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	2	MEDIUM(B)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	3		IMAGER		F2550W	FASTR1	120	1	1	Dither 1	2	2	666.01		
	3	LONG(C)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	3	LONG(C)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		

Proposal 8303 - Observation 1 - CAL-MIRI-411 MIRI Background Monitor

Special Requirements	Between Dates 01-AUG-2025:00:00:00 and 30-AUG-2025:00:00:00 Sequence Observations 1, 2, Non-interruptible
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Proposal 8303 - Observation 2 - CAL-MIRI-411 MIRI Background Monitor

Observation	Proposal 8303, Observation 2: Month 1 Background on Imager :F2100W													Tue Mar 17 22:00:11 GMT 2026	
	Diagnostic Status: Warning														
	Observing Template: MIRI Medium Resolution Spectroscopy														
	Background Observation For: [Month 1 Background on MRS (F2550W) (Obs 1)]														
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				
	(2)	Clean_North_CVZ_IMA_back			RA: 17 22 57.8600 (260.7410833d)			Epoch of Position: 2000							
					Dec: +65 46 13.10 (65.77031d)										
					Equinox: J2000										
		Comments: This is a relatively clean field near the NEP, i.e. based on the PEARLS (PID 2738) NIRcam image at F444W, the pointing shows a minimum of galaxies and no stars. Category=Calibration Description=[Stray light test, Telescope/sky background] Extended=YES													
Acquisition	#	Target													
	1	NONE													
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
		Imager			YES			FULL			Allow Auto Reorder				
Dithers	#	Dither Type			Optimized For			Direction							
	1	2-Point			BACKGROUND			NEGATIVE							
Spectral Elements	#	Wavelength Range	Detector	MRS Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID	
	1		IMAGER		F1280W	FASTR1	120	1	1	Dither 1	2	2	666.01		
	1	SHORT(A)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	1	SHORT(A)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	2		IMAGER		F1500W	FASTR1	120	1	1	Dither 1	2	2	666.01		
	2	MEDIUM(B)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	2	MEDIUM(B)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	3		IMAGER		F2100W	FASTR1	120	1	1	Dither 1	2	2	666.01		
	3	LONG(C)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	3	LONG(C)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		

Proposal 8303 - Observation 2 - CAL-MIRI-411 MIRI Background Monitor

Special Requirements	Between Dates 01-AUG-2025:00:00:00 and 30-AUG-2025:00:00:00 Sequence Observations 1, 2, Non-interruptible
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Proposal 8303 - Observation 3 - CAL-MIRI-411 MIRI Background Monitor

Observation	Proposal 8303, Observation 3: Month 2 Background on MRS (F1800W)												Tue Mar 17 22:00:11 GMT 2026	
	Diagnostic Status: Warning													
	Observing Template: MIRI Medium Resolution Spectroscopy													
	Background Observations:[Month 2 Background on Imager: F2500W (Obs 4)]													
Diagnostics	(Month 2 Background on MRS (F1800W) (Obs 3)) Warning (Form): Filter mismatch between science and background observations may result in incorrect background subtraction.													
	(Month 2 Background on MRS (F1800W) (Obs 3)) Warning (Form): Imager Filter overlap.													
	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.													
Fixed Targets	#	Name		Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(1)	Clean_North_CVZ_MRS		RA: 17 22 57.8600 (260.7410833d)			Epoch of Position: 2000							
				Dec: +65 46 13.10 (65.77031d)										
				Equinox: J2000										
		Comments: This is a relatively clean field near the NEP, i.e. based on the PEARLS (PID 2738) NIRcam image at F444W, the pointing shows a minimum of galaxies and no stars. Category=Calibration Description=[Stray light test, Telescope/sky background] Extended=YES												
Acquisition	#	Target												
	1	NONE												
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction			
		All MRS			YES			FULL			Allow Auto Reorder			
Dithers	#	Dither Type					Optimized For			Direction				
	1	2-Point					POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	MRS Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
	1		IMAGER		F560W	FASTR1	120	1	1	Dither 1	2	2	666.01	
	1	SHORT(A)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01	
	1	SHORT(A)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01	
	2		IMAGER		F1000W	FASTR1	120	1	1	Dither 1	2	2	666.01	
	2	MEDIUM(B)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01	
	2	MEDIUM(B)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01	
	3		IMAGER		F1800W	FASTR1	120	1	1	Dither 1	2	2	666.01	
	3	LONG(C)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01	
	3	LONG(C)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01	

Proposal 8303 - Observation 3 - CAL-MIRI-411 MIRI Background Monitor

Special Requirements	Between Dates 01-OCT-2025:00:00:00 and 30-OCT-2025:00:00:00 Sequence Observations 3, 4, Non-interruptible
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Proposal 8303 - Observation 4 - CAL-MIRI-411 MIRI Background Monitor

Observation	Proposal 8303, Observation 4: Month 2 Background on Imager: F2500W													Tue Mar 17 22:00:11 GMT 2026	
	Diagnostic Status: Warning														
	Observing Template: MIRI Medium Resolution Spectroscopy														
	Background Observation For: [Month 2 Background on MRS (F1800W) (Obs 3)]														
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				
	(2)	Clean_North_CVZ_IMA_back			RA: 17 22 57.8600 (260.7410833d)			Epoch of Position: 2000							
					Dec: +65 46 13.10 (65.77031d)										
					Equinox: J2000										
		Comments: This is a relatively clean field near the NEP, i.e. based on the PEARLS (PID 2738) NIRcam image at F444W, the pointing shows a minimum of galaxies and no stars. Category=Calibration Description=[Stray light test, Telescope/sky background] Extended=YES													
Acquisition	#	Target													
	1	NONE													
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
		Imager			YES			FULL			Allow Auto Reorder				
Dithers	#	Dither Type						Optimized For			Direction				
	1	2-Point						BACKGROUND			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	MRS Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID	
	1		IMAGER		F1280W	FASTR1	120	1	1	Dither 1	2	2	666.01		
	1	SHORT(A)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	1	SHORT(A)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	2		IMAGER		F1500W	FASTR1	120	1	1	Dither 1	2	2	666.01		
	2	MEDIUM(B)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	2	MEDIUM(B)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	3		IMAGER		F2550W	FASTR1	120	1	1	Dither 1	2	2	666.01		
	3	LONG(C)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	3	LONG(C)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		

Proposal 8303 - Observation 4 - CAL-MIRI-411 MIRI Background Monitor

Special Requirements	Between Dates 01-OCT-2025:00:00:00 and 30-OCT-2025:00:00:00 Sequence Observations 3, 4, Non-interruptible
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Proposal 8303 - Observation 5 - CAL-MIRI-411 MIRI Background Monitor

Observation	Proposal 8303, Observation 5: Month 3 Background on MRS (F2100W)													Tue Mar 17 22:00:11 GMT 2026		
	Diagnostic Status: Warning															
	Observing Template: MIRI Medium Resolution Spectroscopy															
	Background Observations:[Month 3 Background on Imager: F1800W (Obs 6)]															
Diagnostics	(Month 3 Background on MRS (F2100W) (Obs 5)) Warning (Form): Filter mismatch between science and background observations may result in incorrect background subtraction.															
	(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.															
Fixed Targets	#	Name		Target Coordinates				Targ. Coord. Corrections				Miscellaneous				
	(1)	Clean_North_CVZ_MRS		RA: 17 22 57.8600 (260.7410833d) Dec: +65 46 13.10 (65.77031d) Equinox: J2000				Epoch of Position: 2000								
	Comments: This is a relatively clean field near the NEP, i.e. based on the PEARLS (PID 2738) NIRcam image at F444W, the pointing shows a minimum of galaxies and no stars.															
	Category=Calibration															
	Description=[Stray light test, Telescope/sky background] Extended=YES															
Acquisition	#	Target														
	1	NONE														
Template	AcqFilter	Primary Channel				Simultaneous Imaging				Imager Subarray				Grating Wheel Direction		
		Channel 4				YES				FULL				Allow Auto Reorder		
Dithers	#	Dither Type						Optimized For				Direction				
	1	2-Point						POINT SOURCE				NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	MRS Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID		
	1		IMAGER		F560W	FASTR1	120	1	1	Dither 1	2	2	666.01			
	1	SHORT(A)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01			
	1	SHORT(A)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01			
	2		IMAGER		F1000W	FASTR1	120	1	1	Dither 1	2	2	666.01			
	2	MEDIUM(B)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01			
	2	MEDIUM(B)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01			
	3		IMAGER		F2100W	FASTR1	120	1	1	Dither 1	2	2	666.01			
	3	LONG(C)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01			
	3	LONG(C)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01			

Proposal 8303 - Observation 5 - CAL-MIRI-411 MIRI Background Monitor

Special Requirements	Between Dates 01-DEC-2025:00:00:00 and 30-DEC-2025:00:00:00 Sequence Observations 5, 6, Non-interruptible
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Proposal 8303 - Observation 6 - CAL-MIRI-411 MIRI Background Monitor

Observation	Proposal 8303, Observation 6: Month 3 Background on Imager: F1800W												Tue Mar 17 22:00:11 GMT 2026	
	Diagnostic Status: Warning													
	Observing Template: MIRI Medium Resolution Spectroscopy													
	Background Observation For: [Month 3 Background on MRS (F2100W) (Obs 5)]													
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			
	(2)	Clean_North_CVZ_IMA_back			RA: 17 22 57.8600 (260.7410833d)			Epoch of Position: 2000						
					Dec: +65 46 13.10 (65.77031d)									
					Equinox: J2000									
		Comments: This is a relatively clean field near the NEP, i.e. based on the PEARLS (PID 2738) NIRcam image at F444W, the pointing shows a minimum of galaxies and no stars. Category=Calibration Description=[Stray light test, Telescope/sky background] Extended=YES												
Acquisition	#	Target												
	1	NONE												
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction			
		Imager			YES			FULL			Allow Auto Reorder			
Dithers	#	Dither Type						Optimized For			Direction			
	1	2-Point						BACKGROUND			NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	MRS Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
	1		IMAGER		F1280W	FASTR1	120	1	1	Dither 1	2	2	666.01	
	1	SHORT(A)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01	
	1	SHORT(A)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01	
	2		IMAGER		F1500W	FASTR1	120	1	1	Dither 1	2	2	666.01	
	2	MEDIUM(B)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01	
	2	MEDIUM(B)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01	
	3		IMAGER		F1800W	FASTR1	120	1	1	Dither 1	2	2	666.01	
	3	LONG(C)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01	
	3	LONG(C)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01	

Proposal 8303 - Observation 6 - CAL-MIRI-411 MIRI Background Monitor

Special Requirements	Between Dates 01-DEC-2025:00:00:00 and 30-DEC-2025:00:00:00 Sequence Observations 5, 6, Non-interruptible
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Proposal 8303 - Observation 7 - CAL-MIRI-411 MIRI Background Monitor

Observation	Proposal 8303, Observation 7: Month 4 Background on MRS (F2500W)													Tue Mar 17 22:00:11 GMT 2026	
	Diagnostic Status: Warning														
	Observing Template: MIRI Medium Resolution Spectroscopy														
	Background Observations:[Month 4 Background on Imager: F2100W (Obs 8)]														
Diagnostics	(Month 4 Background on MRS (F2500W) (Obs 7)) Warning (Form): Filter mismatch between science and background observations may result in incorrect background subtraction.														
	(Month 4 Background on MRS (F2500W) (Obs 7)) Warning (Form): Imager Filter overlap.														
	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.														
Fixed Targets	#	Name		Target Coordinates			Targ. Coord. Corrections				Miscellaneous				
	(1)	Clean_North_CVZ_MRS		RA: 17 22 57.8600 (260.7410833d)			Epoch of Position: 2000								
				Dec: +65 46 13.10 (65.77031d)											
				Equinox: J2000											
		Comments: This is a relatively clean field near the NEP, i.e. based on the PEARLS (PID 2738) NIRcam image at F444W, the pointing shows a minimum of galaxies and no stars. Category=Calibration Description=[Stray light test, Telescope/sky background] Extended=YES													
Acquisition	#	Target													
	1	NONE													
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
		All MRS			YES			FULL			Allow Auto Reorder				
Dithers	#	Dither Type					Optimized For				Direction				
	1	2-Point					POINT SOURCE				NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	MRS Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID	
	1		IMAGER		F2550W	FASTR1	120	1	1	Dither 1	2	2	666.01		
	1	LONG(C)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	1	LONG(C)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	2		IMAGER		F1000W	FASTR1	120	1	1	Dither 1	2	2	666.01		
	2	MEDIUM(B)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	2	MEDIUM(B)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	3		IMAGER		F560W	FASTR1	120	1	1	Dither 1	2	2	666.01		
	3	SHORT(A)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	3	SHORT(A)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		

Proposal 8303 - Observation 7 - CAL-MIRI-411 MIRI Background Monitor

Special Requirements	Between Dates 01-FEB-2026:00:00:00 and 28-FEB-2026:00:00:00 Sequence Observations 7, 8, Non-interruptible
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Proposal 8303 - Observation 8 - CAL-MIRI-411 MIRI Background Monitor

Observation	Proposal 8303, Observation 8: Month 4 Background on Imager: F2100W													Tue Mar 17 22:00:11 GMT 2026	
	Diagnostic Status: Warning														
	Observing Template: MIRI Medium Resolution Spectroscopy														
	Background Observation For: [Month 4 Background on MRS (F2500W) (Obs 7)]														
Diagnostics	(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.														
Fixed Targets	#	Name			Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(2)	Clean_North_CVZ_IMA_back			RA: 17 22 57.8600 (260.7410833d)			Epoch of Position: 2000							
					Dec: +65 46 13.10 (65.77031d)										
					Equinox: J2000										
		Comments: This is a relatively clean field near the NEP, i.e. based on the PEARLS (PID 2738) NIRcam image at F444W, the pointing shows a minimum of galaxies and no stars. Category=Calibration Description=[Stray light test, Telescope/sky background] Extended=YES													
Acquisition	#	Target													
	1	NONE													
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
		Imager			YES			FULL			Allow Auto Reorder				
Dithers	#	Dither Type						Optimized For			Direction				
	1	2-Point						BACKGROUND			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	MRS Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID	
	1		IMAGER		F2100W	FASTR1	120	1	1	Dither 1	2	2	666.01		
	1	LONG(C)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	1	LONG(C)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	2		IMAGER		F1500W	FASTR1	120	1	1	Dither 1	2	2	666.01		
	2	MEDIUM(B)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	2	MEDIUM(B)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	3		IMAGER		F1280W	FASTR1	120	1	1	Dither 1	2	2	666.01		
	3	SHORT(A)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	3	SHORT(A)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		

Proposal 8303 - Observation 8 - CAL-MIRI-411 MIRI Background Monitor

Special Requirements	Between Dates 01-FEB-2026:00:00:00 and 28-FEB-2026:00:00:00 Sequence Observations 7, 8, Non-interruptible
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Proposal 8303 - Observation 9 - CAL-MIRI-411 MIRI Background Monitor

Observation	Proposal 8303, Observation 9: Month 5 Background on MRS (F1800W)													Tue Mar 17 22:00:11 GMT 2026	
	Diagnostic Status: Warning														
	Observing Template: MIRI Medium Resolution Spectroscopy														
	Background Observations:[Month 5 Background on Imager: F2550W (Obs 10)]														
Diagnostics	(Month 5 Background on MRS (F1800W) (Obs 9)) Warning (Form): Filter mismatch between science and background observations may result in incorrect background subtraction.														
	(Month 5 Background on MRS (F1800W) (Obs 9)) Warning (Form): Imager Filter overlap.														
	(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.														
Fixed Targets	#	Name			Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(1)	Clean_North_CVZ_MRS			RA: 17 22 57.8600 (260.7410833d) Dec: +65 46 13.10 (65.77031d) Equinox: J2000			Epoch of Position: 2000							
	Comments: This is a relatively clean field near the NEP, i.e. based on the PEARLS (PID 2738) NIRcam image at F444W, the pointing shows a minimum of galaxies and no stars.														
	Category=Calibration														
	Description=[Stray light test, Telescope/sky background] Extended=YES														
Acquisition	#	Target													
	1	NONE													
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
		All MRS			YES			FULL			Allow Auto Reorder				
Dithers	#	Dither Type						Optimized For			Direction				
	1	2-Point						POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	MRS Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID	
	1		IMAGER		F560W	FASTR1	120	1	1	Dither 1	2	2	666.01		
	1	SHORT(A)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	1	SHORT(A)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	2		IMAGER		F1000W	FASTR1	120	1	1	Dither 1	2	2	666.01		
	2	MEDIUM(B)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	2	MEDIUM(B)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	3		IMAGER		F1800W	FASTR1	39	3	1	Dither 1	2	6	660.46		
	3	LONG(C)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	3	LONG(C)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		

Proposal 8303 - Observation 9 - CAL-MIRI-411 MIRI Background Monitor

Special Requirements	Between Dates 01-APR-2026:00:00:00 and 30-APR-2026:00:00:00 Sequence Observations 9, 10, Non-interruptible
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Proposal 8303 - Observation 10 - CAL-MIRI-411 MIRI Background Monitor

Observation	Proposal 8303, Observation 10: Month 5 Background on Imager: F2550W												Tue Mar 17 22:00:11 GMT 2026	
	Diagnostic Status: Warning													
	Observing Template: MIRI Medium Resolution Spectroscopy													
	Background Observation For: [Month 5 Background on MRS (F1800W) (Obs 9)]													
Diagnostics	(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.													
Fixed Targets	#	Name			Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(2)	Clean_North_CVZ_IMA_back			RA: 17 22 57.8600 (260.7410833d)			Epoch of Position: 2000						
					Dec: +65 46 13.10 (65.77031d)									
					Equinox: J2000									
	Comments: This is a relatively clean field near the NEP, i.e. based on the PEARLS (PID 2738) NIRcam image at F444W, the pointing shows a minimum of galaxies and no stars.													
	Category=Calibration													
	Description=[Stray light test, Telescope/sky background]													
	Extended=YES													
Acquisition	#	Target												
	1	NONE												
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction			
		Imager			YES			FULL			Allow Auto Reorder			
Dithers	#	Dither Type						Optimized For			Direction			
	1	2-Point						BACKGROUND			NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	MRS Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
	1		IMAGER		F1280W	FASTR1	120	1	1	Dither 1	2	2	666.01	
	1	SHORT(A)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01	
	1	SHORT(A)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01	
	2		IMAGER		F1500W	FASTR1	120	1	1	Dither 1	2	2	666.01	
	2	MEDIUM(B)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01	
	2	MEDIUM(B)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01	
	3		IMAGER		F2550W	FASTR1	11	10	1	Dither 1	2	20	660.46	
	3	LONG(C)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01	
	3	LONG(C)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01	

Proposal 8303 - Observation 10 - CAL-MIRI-411 MIRI Background Monitor

Special Requirements	Between Dates 01-APR-2026:00:00:00 and 30-APR-2026:00:00:00 Sequence Observations 9, 10, Non-interruptible
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Proposal 8303 - Observation 11 - CAL-MIRI-411 MIRI Background Monitor

Observation	Proposal 8303, Observation 11: Month 6 Background on MRS (F2100W)													Tue Mar 17 22:00:11 GMT 2026	
	Diagnostic Status: Warning														
	Observing Template: MIRI Medium Resolution Spectroscopy														
	Background Observations:[Month 6 Background on Imager: F1800W (Obs 12)]														
Diagnostics	(Month 6 Background on MRS (F2100W) (Obs 11)) Warning (Form): Filter mismatch between science and background observations may result in incorrect background subtraction.														
	(Month 6 Background on MRS (F2100W) (Obs 11)) Warning (Form): Imager Filter overlap.														
	(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.														
Fixed Targets	#	Name		Target Coordinates			Targ. Coord. Corrections				Miscellaneous				
	(1)	Clean_North_CVZ_MRS		RA: 17 22 57.8600 (260.7410833d)			Epoch of Position: 2000								
				Dec: +65 46 13.10 (65.77031d)											
				Equinox: J2000											
		Comments: This is a relatively clean field near the NEP, i.e. based on the PEARLS (PID 2738) NIRcam image at F444W, the pointing shows a minimum of galaxies and no stars. Category=Calibration Description=[Stray light test, Telescope/sky background] Extended=YES													
Acquisition	#	Target													
	1	NONE													
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
		All MRS			YES			FULL			Allow Auto Reorder				
Dithers	#	Dither Type					Optimized For				Direction				
	1	2-Point					POINT SOURCE				NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	MRS Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID	
	1		IMAGER		F560W	FASTR1	120	1	1	Dither 1	2	2	666.01		
	1	SHORT(A)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	1	SHORT(A)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	2		IMAGER		F1000W	FASTR1	120	1	1	Dither 1	2	2	666.01		
	2	MEDIUM(B)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	2	MEDIUM(B)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	3		IMAGER		F2100W	FASTR1	23	5	1	Dither 1	2	10	660.46		
	3	LONG(C)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	3	LONG(C)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		

Proposal 8303 - Observation 11 - CAL-MIRI-411 MIRI Background Monitor

Special Requirements	Between Dates 01-JUN-2026:00:00:00 and 30-JUN-2026:00:00:00 Sequence Observations 11, 12, Non-interruptible
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Proposal 8303 - Observation 12 - CAL-MIRI-411 MIRI Background Monitor

Observation	Proposal 8303, Observation 12: Month 6 Background on Imager: F1800W													Tue Mar 17 22:00:11 GMT 2026	
	Diagnostic Status: Warning														
	Observing Template: MIRI Medium Resolution Spectroscopy														
	Background Observation For: [Month 6 Background on MRS (F2100W) (Obs 11)]														
Diagnostics	(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.														
Fixed Targets	#	Name			Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(2)	Clean_North_CVZ_IMA_back			RA: 17 22 57.8600 (260.7410833d)			Epoch of Position: 2000							
					Dec: +65 46 13.10 (65.77031d)										
					Equinox: J2000										
		Comments: This is a relatively clean field near the NEP, i.e. based on the PEARLS (PID 2738) NIRcam image at F444W, the pointing shows a minimum of galaxies and no stars. Category=Calibration Description=[Stray light test, Telescope/sky background] Extended=YES													
Acquisition	#	Target													
	1	NONE													
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
		Imager			YES			FULL			Allow Auto Reorder				
Dithers	#	Dither Type						Optimized For			Direction				
	1	2-Point						BACKGROUND			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	MRS Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID	
	1		IMAGER		F1280W	FASTR1	120	1	1	Dither 1	2	2	666.01		
	1	SHORT(A)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	1	SHORT(A)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	2		IMAGER		F1500W	FASTR1	120	1	1	Dither 1	2	2	666.01		
	2	MEDIUM(B)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	2	MEDIUM(B)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	3		IMAGER		F1800W	FASTR1	39	3	1	Dither 1	2	6	660.46		
	3	LONG(C)	MRSLONG	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		
	3	LONG(C)	MRSSHORT	FULL		FASTR1	120	1	1	Dither 1	2	2	666.01		

Proposal 8303 - Observation 12 - CAL-MIRI-411 MIRI Background Monitor

Special Requirements	Between Dates 01-JUN-2026:00:00:00 and 30-JUN-2026:00:00:00 Sequence Observations 11, 12, Non-interruptible
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Proposal 8303 - Observation 50 - CAL-MIRI-411 MIRI Background Monitor

Observation	Proposal 8303, Observation 50: Imager+CoronaFilters													Tue Mar 17 22:00:11 GMT 2026	
	Diagnostic Status: Warning														
Observing Template: MIRI External Flat															
Diagnostics	(Visit 50:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.														
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections				Miscellaneous				
	(3)	Clean_North_CVZ_IMA_direct	RA: 17 22 57.8600 (260.7410833d) Dec: +65 46 13.10 (65.77031d) Equinox: J2000				Epoch of Position: 2000				Comments: This is a relatively clean field near the NEP, i.e. based on the PEARLS (PID 2738) NIRcam image at F444W, the pointing shows a minimum of galaxies and no stars at long wavelengths. At the shorter wavelengths there are a few more stars, but still a reasonable field. No selected as a background, contains no MRS observations, but it is the same pointing Category=Calibration Description=[Stray light test, Telescope/sky background] Extended=YES				
Template	Pointing Type	Detector	Dither		Lamp Use		Lamp On Time		Imager Subarray		Grating Wheel Direction				
	PRIME	IMAGER	true		OFF ONLY		0		FULL		Allow Auto Reorder				
Dithers	#	Dither Type													
	1	2-Point													
Spectral Elements	#	Detector	MRS Subarray	Filter	Wavelength 1 & 4	Wavelength 2 & 3	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID	
	1	IMAGER		F1130W			FASTR1	120	1	1	2	2	666.01		
	2	IMAGER		F1065C			FASTR1	120	1	1	2	2	666.01		
	3	IMAGER		F1140C			FASTR1	120	1	1	2	2	666.01		
	4	IMAGER		F1550C			FASTR1	120	1	1	2	2	666.01		
	5	IMAGER		F770W			FASTR1	120	1	1	2	2	666.01		
	6	IMAGER		F2300C			FASTR1	120	1	1	2	2	666.01		
Special Requirements	Between Dates 01-DEC-2025:00:00:00 and 31-DEC-2025:00:00:00 No Parallel Attachments														