



4488 - CAL-MIRI-219 Subarray calibration transfer

Cycle: 2, Proposal Category: CAL/MIRI

INVESTIGATORS

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OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1	FULL	MIRI Imaging	(2) J1802271
	2	FULL	MIRI Imaging	(2) J1802271
	3	BRIGHTSKY	MIRI Imaging	(2) J1802271
	4	SUB256	MIRI Imaging	(2) J1802271
	5	SUB128	MIRI Imaging	(2) J1802271
	6	SUB64	MIRI Imaging	(2) J1802271
	7	SUB64	MIRI Imaging	(2) J1802271
	8	FULL	MIRI Imaging	(2) J1802271

ABSTRACT

We will observe the standard star J1802271 (A3 V) in the full array and all four subarrays in the F1280W filter to photometrically calibrate the subarrays to each other. This activity builds on the Cycle 1 activity, which used the same star in the F770W filter. The shift to a longer-wavelength filter will reduce detector systematics and provide a check for the previous results.

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

OBSERVING DESCRIPTION

The duplicates of the FULL and SUB64 settings will test for differences in readout behavior when the previous readout was with a different subarray.

All observations should be observed in one non-interruptible sequence.

The observations are constrained to be observed before 1 Oct 2023.

Proposal 4488 - Targets - CAL-MIRI-219 Subarray calibration transfer

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	J1757132	RA: 17 57 13.2322 (269.3051342d) Dec: +67 03 40.76 (67.06132d) Equinox: J2000	Proper Motion RA: 0.841 mas/yr Proper Motion Dec: -12.945 mas/yr Parallax: 0.0009482" Epoch of Position: 2000.0	
<i>Comments: Position from Gaia EDR3 Spectral class: A3 V Category=Star Description=[A dwarfs] Extended=NO</i>				
(2)	J1802271	RA: 18 02 27.1688 (270.6132033d) Dec: +60 43 35.59 (60.72655d) Equinox: J2000	Proper Motion RA: 2.678 mas/yr Proper Motion Dec: -2.301 mas/yr Parallax: 0.000709" Epoch of Position: 2000.00	
<i>Comments: Position from Gaia DR2 Spectral class: A3 V Category=Star Description=[A dwarfs] Extended=NO</i>				

Fixed Targets

Proposal 4488 - Observation 1 - CAL-MIRI-219 Subarray calibration transfer

Mon May 08 23:01:45 GMT 2023

Observation	<p>Proposal 4488, Observation 1: FULL</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI 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		
	(2)	J1802271	RA: 18 02 27.1688 (270.6132033d) Dec: +60 43 35.59 (60.72655d) Equinox: J2000			Proper Motion RA: 2.678 mas/yr Proper Motion Dec: -2.301 mas/yr Parallax: 0.000709" Epoch of Position: 2000.00					
	<i>Comments: Position from Gaia DR2</i> <i>Spectral class: A3 V</i> <i>Category=Star</i> <i>Description=[A dwarfs]</i> <i>Extended=NO</i>										
Template	<p>Subarray</p> <p>FULL</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	CYCLING	1	4		1	1			LARGE	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F1280W	FASTR1	16	1	1	Dither 1	4	4	177.603	
Special Requirements	<p>Before Date 01-OCT-2023</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, Non-interruptible</p>										

Proposal 4488 - Observation 2 - CAL-MIRI-219 Subarray calibration transfer

Mon May 08 23:01:45 GMT 2023

Observation	<p>Proposal 4488, Observation 2: FULL</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p>										
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)	J1802271	RA: 18 02 27.1688 (270.6132033d) Dec: +60 43 35.59 (60.72655d) Equinox: J2000			Proper Motion RA: 2.678 mas/yr Proper Motion Dec: -2.301 mas/yr Parallax: 0.000709" Epoch of Position: 2000.00					
	<i>Comments: Position from Gaia DR2</i> <i>Spectral class: A3 V</i> <i>Category=Star</i> <i>Description=[A dwarfs]</i> <i>Extended=NO</i>										
Template	<p>Subarray</p> <p>FULL</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	CYCLING	1	4		1	1			LARGE	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F1280W	FASTR1	16	1	1	Dither 1	4	4	177.603	
Special Requirements	<p>Before Date 01-OCT-2023</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, Non-interruptible</p>										

Proposal 4488 - Observation 3 - CAL-MIRI-219 Subarray calibration transfer

Mon May 08 23:01:45 GMT 2023

Observation	<p>Proposal 4488, Observation 3: BRIGHTSKY</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI 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		
	(2)	J1802271	RA: 18 02 27.1688 (270.6132033d) Dec: +60 43 35.59 (60.72655d) Equinox: J2000			Proper Motion RA: 2.678 mas/yr Proper Motion Dec: -2.301 mas/yr Parallax: 0.000709" Epoch of Position: 2000.00					
	<p><i>Comments: Position from Gaia DR2</i></p> <p><i>Spectral class: A3 V</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p>										
Template	<p>Subarray</p> <p>BRIGHTSKY</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	CYCLING	1	4		1	1			LARGE	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F1280W	FASTR1	42	1	1	Dither 1	4	4	145.367	
Special Requirements	Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, Non-interruptible										

Proposal 4488 - Observation 4 - CAL-MIRI-219 Subarray calibration transfer

Mon May 08 23:01:45 GMT 2023

Observation	<p>Proposal 4488, Observation 4: SUB256</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p>										
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)	J1802271	RA: 18 02 27.1688 (270.6132033d) Dec: +60 43 35.59 (60.72655d) Equinox: J2000			Proper Motion RA: 2.678 mas/yr Proper Motion Dec: -2.301 mas/yr Parallax: 0.000709" Epoch of Position: 2000.00					
	<p><i>Comments: Position from Gaia DR2</i></p> <p><i>Spectral class: A3 V</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p>										
Template	<p>Subarray</p> <p>SUB256</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	CYCLING	1	4		1	1			LARGE	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F1280W	FASTR1	114	1	1	Dither 1	4	4	136.581	
Special Requirements	Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, Non-interruptible										

Proposal 4488 - Observation 5 - CAL-MIRI-219 Subarray calibration transfer

Mon May 08 23:01:45 GMT 2023

Observation	<p>Proposal 4488, Observation 5: SUB128</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI 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		
	(2)	J1802271	RA: 18 02 27.1688 (270.6132033d) Dec: +60 43 35.59 (60.72655d) Equinox: J2000			Proper Motion RA: 2.678 mas/yr Proper Motion Dec: -2.301 mas/yr Parallax: 0.000709" Epoch of Position: 2000.00					
	<p><i>Comments: Position from Gaia DR2</i></p> <p><i>Spectral class: A3 V</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p>										
Template	<p>Subarray</p> <p>SUB128</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	CYCLING	1	4		1	1			DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F1280W	FASTR1	282	1	1	Dither 1	4	4	134.277	
Special Requirements	Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, Non-interruptible										

Proposal 4488 - Observation 6 - CAL-MIRI-219 Subarray calibration transfer

Mon May 08 23:01:45 GMT 2023

Observation	<p>Proposal 4488, Observation 6: SUB64</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI 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		
	(2)	J1802271	RA: 18 02 27.1688 (270.6132033d) Dec: +60 43 35.59 (60.72655d) Equinox: J2000			Proper Motion RA: 2.678 mas/yr Proper Motion Dec: -2.301 mas/yr Parallax: 0.000709" Epoch of Position: 2000.00					
	<p><i>Comments: Position from Gaia DR2</i></p> <p><i>Spectral class: A3 V</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p>										
Template	<p>Subarray</p> <p>SUB64</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	CYCLING	1	4		1	1			DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F1280W	FASTR1	400	1	1	Dither 1	4	4	136.192	
Special Requirements	Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, Non-interruptible										

Proposal 4488 - Observation 7 - CAL-MIRI-219 Subarray calibration transfer

Mon May 08 23:01:45 GMT 2023

Observation	<p>Proposal 4488, Observation 7: SUB64</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p>										
Diagnostics	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(2)	J1802271	RA: 18 02 27.1688 (270.6132033d) Dec: +60 43 35.59 (60.72655d) Equinox: J2000			Proper Motion RA: 2.678 mas/yr Proper Motion Dec: -2.301 mas/yr Parallax: 0.000709" Epoch of Position: 2000.00					
	<p><i>Comments: Position from Gaia DR2</i></p> <p><i>Spectral class: A3 V</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p>										
Template	<p>Subarray</p> <p>SUB64</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	CYCLING	1	4		1	1			DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F1280W	FASTR1	400	1	1	Dither 1	4	4	136.192	
Special Requirements	Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, Non-interruptible										

Proposal 4488 - Observation 8 - CAL-MIRI-219 Subarray calibration transfer

Mon May 08 23:01:45 GMT 2023

Observation	<p>Proposal 4488, Observation 8: FULL</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p>										
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)	J1802271	RA: 18 02 27.1688 (270.6132033d) Dec: +60 43 35.59 (60.72655d) Equinox: J2000			Proper Motion RA: 2.678 mas/yr Proper Motion Dec: -2.301 mas/yr Parallax: 0.000709" Epoch of Position: 2000.00					
	<p><i>Comments: Position from Gaia DR2</i></p> <p><i>Spectral class: A3 V</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p>										
Template	<p>Subarray</p> <p>FULL</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	CYCLING	1	4		1	1			LARGE	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F1280W	FASTR1	16	1	1	Dither 1	4	4	177.603	
Special Requirements	Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, Non-interruptible										