



## 1533 - CAL-MIRI-113

Cycle: 1, 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	J1757132 - BRIGHTS KY	MIRI Imaging	(1) J1757132
	2	J1757132 - FULL	MIRI Imaging	(1) J1757132
	3	J1757132 - SUB256	MIRI Imaging	(1) J1757132
	4	J1757132 - SUB128	MIRI Imaging	(1) J1757132
	5	J1757132 - SUB64	MIRI Imaging	(1) J1757132

### ABSTRACT

To provide the data necessary to transfer the photometric calibration of the MIRI imager across all subarrays, we will observe an A dwarf in the F770W filter in each subarray. The target is J1757132, which is in the continuous viewing zone.

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

### OBSERVING DESCRIPTION

To provide the data necessary to transfer the photometric calibration of the MIRI imager across all subarrays, we will observe an A dwarf in the F770W filter in each subarray. The target is J1757132, which is in the continuous viewing zone.

TIMING CONSTRAINTS:

This program should be executed in the first four months of Cycle 1. The constraints in this APT file assume a launch date of 25 Dec 2021 and the beginning of Cycle 1 on 23 Jun 2022.

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

Proposal 1533 - Targets - CAL-MIRI-113

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
	(1)	J1757132	RA: 17 57 13.2333 (269.3051387d) Dec: +67 03 40.77 (67.06132d) Equinox: J2000	Proper Motion RA: 0.408 mas/yr Proper Motion Dec: -14.027 mas/yr Parallax: 0.001126" Epoch of Position: 2000.0	
<i>Comments: coordinates from Gaia DR2</i> <i>Category=Star</i> <i>Description=[A dwarfs]</i> <i>Extended=NO</i>					

Proposal 1533 - Observation 1 - CAL-MIRI-113

Wed Jul 20 16:00:37 GMT 2022

<b>Observation</b>	<p><b>Proposal 1533, Observation 1: J1757132 - BRIGHTSKY</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI 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)	J1757132	RA: 17 57 13.2333 (269.3051387d) Dec: +67 03 40.77 (67.06132d) Equinox: J2000			Proper Motion RA: 0.408 mas/yr Proper Motion Dec: -14.027 mas/yr Parallax: 0.001126" Epoch of Position: 2000.0					
	<p><i>Comments: coordinates from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p>										
<b>Template</b>	<p><b>Subarray</b></p> <p>BRIGHTSKY</p>										
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>	<b>Starting Point</b>	<b>Number of Points</b>	<b>Points</b>	<b>Starting Set</b>	<b>Number of Sets</b>	<b>Optimized For</b>	<b>Direction</b>	<b>Pattern Size</b>	
	1	4-Point-Sets				1	1	POINT SOURCE	POSITIVE	DEFAULT	
<b>Spectral Elements</b>	<b>#</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Exposures/Dith</b>	<b>Dither</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F770W	FASTR1	10	1	1	Dither 1	4	4	34.611	
<b>Special Requirements</b>	<p>Before Date 23-OCT-2022</p> <p>Group Observations 1, 2, 3, 4, 5, Non-interruptible</p>										

Proposal 1533 - Observation 2 - CAL-MIRI-113

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<b>Observation</b>	<p>Proposal 1533, Observation 2: J1757132 - FULL</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>										
<b>Diagnostics</b>	(Visit 2:1) 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)	J1757132	RA: 17 57 13.2333 (269.3051387d) Dec: +67 03 40.77 (67.06132d) Equinox: J2000			Proper Motion RA: 0.408 mas/yr Proper Motion Dec: -14.027 mas/yr Parallax: 0.001126" Epoch of Position: 2000.0					
	<p><i>Comments: coordinates from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p>										
<b>Template</b>	<p>Subarray</p> <p>FULL</p>										
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>	<b>Starting Point</b>	<b>Number of Points</b>	<b>Points</b>	<b>Starting Set</b>	<b>Number of Sets</b>	<b>Optimized For</b>	<b>Direction</b>	<b>Pattern Size</b>	
	1	4-Point-Sets				1	1	POINT SOURCE	POSITIVE	DEFAULT	
<b>Spectral Elements</b>	<b>#</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Exposures/Dith</b>	<b>Dither</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F770W	FASTR1	7	1	1	Dither 1	4	4	77.701	
<b>Special Requirements</b>	Group Observations 1, 2, 3, 4, 5, Non-interruptible										

Proposal 1533 - Observation 3 - CAL-MIRI-113

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<b>Observation</b>	<p>Proposal 1533, Observation 3: J1757132 - SUB256</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>										
<b>Diagnostics</b>	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(1)	J1757132	RA: 17 57 13.2333 (269.3051387d) Dec: +67 03 40.77 (67.06132d) Equinox: J2000			Proper Motion RA: 0.408 mas/yr Proper Motion Dec: -14.027 mas/yr Parallax: 0.001126" Epoch of Position: 2000.0					
	<p><i>Comments: coordinates from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p>										
<b>Template</b>	<p>Subarray</p> <p>SUB256</p>										
<b>Dithers</b>	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				1	1	POINT SOURCE	POSITIVE	DEFAULT	
<b>Spectral Elements</b>	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F770W	FASTR1	20	1	1	Dither 1	4	4	23.962	
<b>Special Requirements</b>	Group Observations 1, 2, 3, 4, 5, Non-interruptible										

Proposal 1533 - Observation 4 - CAL-MIRI-113

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<b>Observation</b>	<p>Proposal 1533, Observation 4: J1757132 - SUB128</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>										
<b>Diagnostics</b>	(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(1)	J1757132	RA: 17 57 13.2333 (269.3051387d) Dec: +67 03 40.77 (67.06132d) Equinox: J2000			Proper Motion RA: 0.408 mas/yr Proper Motion Dec: -14.027 mas/yr Parallax: 0.001126" Epoch of Position: 2000.0					
	<p><i>Comments: coordinates from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p>										
<b>Template</b>	<p>Subarray</p> <p>SUB128</p>										
<b>Dithers</b>	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				1	1	POINT SOURCE	POSITIVE	DEFAULT	
<b>Spectral Elements</b>	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F770W	FAST	44	1	1	Dither 1	4	4	20.951	
<b>Special Requirements</b>	Group Observations 1, 2, 3, 4, 5, Non-interruptible										

Proposal 1533 - Observation 5 - CAL-MIRI-113

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<b>Observation</b>	<p>Proposal 1533, Observation 5: J1757132 - SUB64</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>										
<b>Diagnostics</b>	(Visit 5:1) 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)	J1757132	RA: 17 57 13.2333 (269.3051387d) Dec: +67 03 40.77 (67.06132d) Equinox: J2000			Proper Motion RA: 0.408 mas/yr Proper Motion Dec: -14.027 mas/yr Parallax: 0.001126" Epoch of Position: 2000.0					
	<p><i>Comments: coordinates from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p>										
<b>Template</b>	<p><b>Subarray</b></p> <p>SUB64</p>										
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>	<b>Starting Point</b>	<b>Number of Points</b>	<b>Points</b>	<b>Starting Set</b>	<b>Number of Sets</b>	<b>Optimized For</b>	<b>Direction</b>	<b>Pattern Size</b>	
	1	4-Point-Sets				1	1	POINT SOURCE	POSITIVE	DEFAULT	
<b>Spectral Elements</b>	<b>#</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Exposures/Dith</b>	<b>Dither</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F770W	FASTR1	60	1	1	Dither 1	4	4	20.429	
<b>Special Requirements</b>	Group Observations 1, 2, 3, 4, 5, Non-interruptible										