



3571 - MIRI observations of YSO candidates for Unambiguous Evidence of Star formation in the 10pc Molecular Ring Orbiting the Galactic Center Black Hole

Cycle: 2, Proposal Category: GO

INVESTIGATORS

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Nycole Wenner (CoI)	Northwestern University

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
MIR Imaging Gal Cen				
	1	Gal Cen	MIRI Imaging	(1) GAL-CENTER
	2	Gal Cen Copy of Tile-1	MIRI Imaging	(2) GAL-CENTER-Tile-1
	7	Gal Cen Copy of Tile-1 Repeat of Obs 2	MIRI Imaging	(2) GAL-CENTER-Tile-1
	17	Gal Cen Copy of Tile-1 Repeat of Obs 7	MIRI Imaging	(2) GAL-CENTER-Tile-1
	3	Gal Cen Copy of Tile-2	MIRI Imaging	(3) GAL-CENTER-Tile-2
	4	Gal Cen Copy of Tile-3	MIRI Imaging	(4) GAL-CENTER-Tile-3
	5	Gal Cen Copy of Tile-4	MIRI Imaging	(5) GAL-CENTER-Tile-4
	6	Gal Cen Copy of Tile-6	MIRI Imaging	(6) GAL-CENTER-Tile-6
	16	Gal Cen Copy of Tile-6	MIRI Imaging	(6) GAL-CENTER-Tile-6

ABSTRACT

There is mounting evidence for signatures of star formation, such as methanol and water masers and bipolar outflows, at the center of the Galaxy. While these signatures are widely accepted for star forming regions in the Galactic disk, the extreme environment, particularly irradiation by OB stars and the disturbed nature of the circumnuclear molecular ring (CNR), suggest that in principle the signatures could be produced by shocks and external irradiation. The CNR shows a population of very dense clumps that appear to be marginally gravitationally unstable. What is needed is an unambiguous tracer, ideally the direct detection of Young Stellar Objects (YSOs). This demands the unique capabilities of JWST. The increased sensitivity, resolution, and wavelength coverage of JWST will untangle the process of star formation in the crowded and complex region of the nucleus of our Galaxy. The observational program proposed here will search for IR-excess sources from bipolar molecular outflows and uncover IR-excess sources in the molecular ring and search for YSOs in a site where numerous tracers of outflows are detected. This is the first time that there is sufficient sensitivity for a complete census of low- and high-mass ongoing star formation in the circumnuclear molecular ring, thus providing an accurate estimate of the star formation rate near the supermassive black hole. These observations will also be the seed for a more extensive mid-IR imaging survey of the entire Galactic Center region in later observing cycles, which will have tremendous potential for a wide variety of archival research programs in this remarkable and unique region of the Galaxy.

OBSERVING DESCRIPTION

We will use the MIRI imager to observe the central few arc minutes of the Galactic Center (GC) in several different wavelength bands. Photometry of the sources will allow us to build spectral energy distributions (SED's) of the stellar cluster surrounding the supermassive black hole Sgr A*. The SED's and color-color analysis will be used to identify Young Stellar Objects (YSO's). We will construct a 3.5' x 3.5' imaging mosaic in each of 5 filter bands, ranging from 5 to 15 microns, centered on the GC. Dither patterns will be used in each mosaic tile to mitigate the effects of bad pixels and recover full sampling of the PSF at the shorter wavelengths.

Proposal 3571 - Targets - MIRI observations of YSO candidates for Unambiguous Evidence of Star formation in the 10pc Molecular Ri...

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	GAL-CENTER	RA: 17 45 40.0380 (266.4168250d) Dec: -29 00 28.07 (-29.00780d) Equinox: J2000	Epoch of Position: 2000	
<p><i>Comments:</i> <i>Category=Stellar Cluster</i> <i>Description=[Open star clusters, Young star clusters]</i></p>				
(2)	GAL-CENTER-Tile-1	RA: 17 45 35.7003 (266.3987512d) Dec: -29 01 32.96 (-29.02582d) Equinox: J2000	Epoch of Position: 2000	
<p><i>Comments:</i> <i>Category=Stellar Cluster</i> <i>Description=[Open star clusters, Young star clusters]</i></p>				
(3)	GAL-CENTER-Tile-2	RA: 17 45 36.0039 (266.4000162d) Dec: -29 00 24.36 (-29.00677d) Equinox: J2000	Epoch of Position: 2000	
<p><i>Comments:</i> <i>Category=Stellar Cluster</i> <i>Description=[Open star clusters, Young star clusters]</i></p>				
(4)	GAL-CENTER-Tile-3	RA: 17 45 43.8763 (266.4328179d) Dec: -29 00 35.50 (-29.00986d) Equinox: J2000	Epoch of Position: 2000	
<p><i>Comments:</i> <i>Category=Stellar Cluster</i> <i>Description=[Open star clusters, Young star clusters]</i></p>				
(5)	GAL-CENTER-Tile-4	RA: 17 45 43.5988 (266.4316617d) Dec: -29 01 40.73 (-29.02798d) Equinox: J2000	Epoch of Position: 2000	
<p><i>Comments:</i> <i>Category=Stellar Cluster</i> <i>Description=[Open star clusters, Young star clusters]</i></p>				
(6)	GAL-CENTER-Tile-6	RA: 17 45 36.4271 (266.4017796d) Dec: -28 59 17.43 (-28.98818d) Equinox: J2000	Epoch of Position: 2000	
<p><i>Comments:</i> <i>Category=Stellar Cluster</i> <i>Description=[Open star clusters, Young star clusters]</i></p>				

Fixed Targets

Proposal 3571 - Observation 1 - MIRI observations of YSO candidates for Unambiguous Evidence of Star formation in the 10pc Molec...

Fri Feb 21 20:00:11 GMT 2025

Observation	Proposal 3571, Observation 1: Gal Cen Diagnostic Status: Warning Observing Template: MIRI Imaging																																																																											
	(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.																																																																											
Diagnosics																																																																												
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="3">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>GAL-CENTER</td> <td>RA: 17 45 40.0380 (266.4168250d) Dec: -29 00 28.07 (-29.00780d) Equinox: J2000</td> <td colspan="3">Epoch of Position: 2000</td> <td colspan="4"></td> </tr> <tr> <td colspan="10"> <i>Comments:</i> Category=Stellar Cluster Description=[Open star clusters, Young star clusters] </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous				(1)	GAL-CENTER	RA: 17 45 40.0380 (266.4168250d) Dec: -29 00 28.07 (-29.00780d) Equinox: J2000	Epoch of Position: 2000							<i>Comments:</i> Category=Stellar Cluster Description=[Open star clusters, Young star clusters]																																													
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Mosaic	<table border="1"> <thead> <tr> <th>Rows</th> <th>Columns</th> <th>Row Overlap %</th> <th>Column Overlap %</th> <th>Row shift (deg)</th> <th>Column shift (deg)</th> <th>Tile Order</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>3</td> <td>10.0</td> <td>10.0</td> <td>0.0</td> <td>0.0</td> <td>DEFAULT</td> </tr> </tbody> </table>										Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order	2	3	10.0	10.0	0.0	0.0	DEFAULT																																																				
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Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Dither</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F560W</td> <td>FASTR1</td> <td>40</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>8</td> <td>8</td> <td>888.013</td> <td>58598</td> </tr> <tr> <td>2</td> <td>F770W</td> <td>FASTR1</td> <td>40</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>8</td> <td>8</td> <td>888.013</td> <td></td> </tr> <tr> <td>3</td> <td>F1000W</td> <td>FASTR1</td> <td>40</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>8</td> <td>8</td> <td>888.013</td> <td>58598</td> </tr> <tr> <td>4</td> <td>F1280W</td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>8</td> <td>8</td> <td>666.01</td> <td></td> </tr> <tr> <td>5</td> <td>F1500W</td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>8</td> <td>8</td> <td>666.01</td> <td></td> </tr> </tbody> </table>										#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	F560W	FASTR1	40	1	1	Dither 1	8	8	888.013	58598	2	F770W	FASTR1	40	1	1	Dither 1	8	8	888.013		3	F1000W	FASTR1	40	1	1	Dither 1	8	8	888.013	58598	4	F1280W	FASTR1	30	1	1	Dither 1	8	8	666.01		5	F1500W	FASTR1	30	1	1	Dither 1	8	8	666.01	
	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																																																																	
	1	F560W	FASTR1	40	1	1	Dither 1	8	8	888.013	58598																																																																	
	2	F770W	FASTR1	40	1	1	Dither 1	8	8	888.013																																																																		
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	4	F1280W	FASTR1	30	1	1	Dither 1	8	8	666.01																																																																		
5	F1500W	FASTR1	30	1	1	Dither 1	8	8	666.01																																																																			
Special Requirements	Group Visits within 53.0 Days Visits Same PA																																																																											

Proposal 3571 - Observation 2 - MIRI observations of YSO candidates for Unambiguous Evidence of Star formation in the 10pc Molec...

Fri Feb 21 20:00:11 GMT 2025

Observation	<p>Proposal 3571, Observation 2: Gal Cen Copy of Tile-1</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)	GAL-CENTER-Tile-1	RA: 17 45 35.7003 (266.3987512d) Dec: -29 01 32.96 (-29.02582d) Equinox: J2000			Epoch of Position: 2000					
	<p><i>Comments:</i> Category=Stellar Cluster Description=[Open star clusters, Young star clusters]</p>										
Template	<p>Subarray FULL</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				5	2	POINT SOURCE	POSITIVE	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	F560W	FASTR1	40	1	1	Dither 1	8	8	888.013	58598
	2	F770W	FASTR1	40	1	1	Dither 1	8	8	888.013	
	3	F1000W	FASTR1	40	1	1	Dither 1	8	8	888.013	58598
	4	F1280W	FASTR1	30	1	1	Dither 1	8	8	666.01	
	5	F1500W	FASTR1	30	1	1	Dither 1	8	8	666.01	
Special Requirements	<p>Aperture PA Range 94.13544897 to 94.13544897 Degrees (V3 89.3 to 89.3)</p> <p>Same Aperture PA 2, 3, 4, 5, 6</p>										

Proposal 3571 - Observation 7 - MIRI observations of YSO candidates for Unambiguous Evidence of Star formation in the 10pc Molec...

Fri Feb 21 20:00:11 GMT 2025

Observation	<p>Proposal 3571, Observation 7: Gal Cen Copy of Tile-1 Repeat of Obs 2</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)	GAL-CENTER-Tile-1	RA: 17 45 35.7003 (266.3987512d) Dec: -29 01 32.96 (-29.02582d) Equinox: J2000			Epoch of Position: 2000					
	<p><i>Comments:</i> Category=Stellar Cluster Description=[Open star clusters, Young star clusters]</p>										
Template	<p>Subarray FULL</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				5	2	POINT SOURCE	POSITIVE	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	F560W	FASTR1	40	1	1	Dither 1	8	8	888.013	58598
	2	F770W	FASTR1	40	1	1	Dither 1	8	8	888.013	
	3	F1000W	FASTR1	40	1	1	Dither 1	8	8	888.013	58598
	4	F1280W	FASTR1	30	1	1	Dither 1	8	8	666.01	
	5	F1500W	FASTR1	30	1	1	Dither 1	8	8	666.01	
Special Requirements	Aperture PA Range 94.13544897 to 94.13544897 Degrees (V3 89.3 to 89.3)										

Proposal 3571 - Observation 17 - MIRI observations of YSO candidates for Unambiguous Evidence of Star formation in the 10pc Mole...

Fri Feb 21 20:00:11 GMT 2025

Observation	<p>Proposal 3571, Observation 17: Gal Cen Copy of Tile-1 Repeat of Obs 7</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p>										
Diagnostics	<p>(Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 17:1) Informational (Form): Visit schedulable, but most scheduling windows are when JWST is pointed in direction of greatest micrometeoroid impact risk. This is likely due to scheduling special requirements.</p>										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous			
	(2)	GAL-CENTER-Tile-1	RA: 17 45 35.7003 (266.3987512d) Dec: -29 01 32.96 (-29.02582d) Equinox: J2000			Epoch of Position: 2000					
	<p><i>Comments:</i> <i>Category=Stellar Cluster</i> <i>Description=[Open star clusters, Young star clusters]</i></p>										
Template	<p>Subarray FULL</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				5	2	POINT SOURCE	POSITIVE	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	F560W	FASTR1	40	1	1	Dither 1	8	8	888.013	58598
	2	F770W	FASTR1	40	1	1	Dither 1	8	8	888.013	
	3	F1000W	FASTR1	40	1	1	Dither 1	8	8	888.013	58598
	4	F1280W	FASTR1	30	1	1	Dither 1	8	8	666.01	
	5	F1500W	FASTR1	30	1	1	Dither 1	8	8	666.01	
Special Requirements	<p>Aperture PA Range 276.15544897 to 276.15544897 Degrees (V3 271.32 to 271.32)</p>										

Proposal 3571 - Observation 3 - MIRI observations of YSO candidates for Unambiguous Evidence of Star formation in the 10pc Molec...

Fri Feb 21 20:00:11 GMT 2025

Observation	<p>Proposal 3571, Observation 3: Gal Cen Copy of Tile-2</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			
	(3)	GAL-CENTER-Tile-2	RA: 17 45 36.0039 (266.4000162d) Dec: -29 00 24.36 (-29.00677d) Equinox: J2000			Epoch of Position: 2000					
	<p><i>Comments:</i> <i>Category=Stellar Cluster</i> <i>Description=[Open star clusters, Young star clusters]</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	4-Point-Sets				5	2	POINT SOURCE	POSITIVE	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	F560W	FASTR1	40	1	1	Dither 1	8	8	888.013	58598
	2	F770W	FASTR1	40	1	1	Dither 1	8	8	888.013	
	3	F1000W	FASTR1	40	1	1	Dither 1	8	8	888.013	58598
	4	F1280W	FASTR1	30	1	1	Dither 1	8	8	666.01	
	5	F1500W	FASTR1	30	1	1	Dither 1	8	8	666.01	
Special Requirements	Same Aperture PA 2, 3, 4, 5, 6										

Proposal 3571 - Observation 4 - MIRI observations of YSO candidates for Unambiguous Evidence of Star formation in the 10pc Molec...

Fri Feb 21 20:00:11 GMT 2025

Observation	<p>Proposal 3571, Observation 4: Gal Cen Copy of Tile-3</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		
	(4)	GAL-CENTER-Tile-3	RA: 17 45 43.8763 (266.4328179d) Dec: -29 00 35.50 (-29.00986d) Equinox: J2000			Epoch of Position: 2000					
	<p><i>Comments:</i> Category=Stellar Cluster Description=[Open star clusters, Young star clusters]</p>										
Template	<p>Subarray FULL</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				5	2	POINT SOURCE	POSITIVE	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	F560W	FASTR1	40	1	1	Dither 1	8	8	888.013	58598
	2	F770W	FASTR1	40	1	1	Dither 1	8	8	888.013	
	3	F1000W	FASTR1	40	1	1	Dither 1	8	8	888.013	58598
	4	F1280W	FASTR1	30	1	1	Dither 1	8	8	666.01	
	5	F1500W	FASTR1	30	1	1	Dither 1	8	8	666.01	
Special Requirements	Same Aperture PA 2, 3, 4, 5, 6										

Proposal 3571 - Observation 5 - MIRI observations of YSO candidates for Unambiguous Evidence of Star formation in the 10pc Molec...

Fri Feb 21 20:00:11 GMT 2025

Observation	<p>Proposal 3571, Observation 5: Gal Cen Copy of Tile-4</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		
	(5)	GAL-CENTER-Tile-4	RA: 17 45 43.5988 (266.4316617d) Dec: -29 01 40.73 (-29.02798d) Equinox: J2000			Epoch of Position: 2000					
	<p><i>Comments:</i> <i>Category=Stellar Cluster</i> <i>Description=[Open star clusters, Young star clusters]</i></p>										
Template	<p>Subarray FULL</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				5	2	POINT SOURCE	POSITIVE	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	F560W	FASTR1	40	1	1	Dither 1	8	8	888.013	58598
	2	F770W	FASTR1	40	1	1	Dither 1	8	8	888.013	
	3	F1000W	FASTR1	40	1	1	Dither 1	8	8	888.013	58598
	4	F1280W	FASTR1	30	1	1	Dither 1	8	8	666.01	
	5	F1500W	FASTR1	30	1	1	Dither 1	8	8	666.01	
Special Requirements	Same Aperture PA 2, 3, 4, 5, 6										

Proposal 3571 - Observation 6 - MIRI observations of YSO candidates for Unambiguous Evidence of Star formation in the 10pc Molec...

Fri Feb 21 20:00:11 GMT 2025

Observation	<p>Proposal 3571, Observation 6: Gal Cen Copy of Tile-6</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		
	(6)	GAL-CENTER-Tile-6	RA: 17 45 36.4271 (266.4017796d) Dec: -28 59 17.43 (-28.98818d) Equinox: J2000			Epoch of Position: 2000					
	<p><i>Comments:</i> Category=Stellar Cluster Description=[Open star clusters, Young star clusters]</p>										
Template	<p>Subarray FULL</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				5	2	POINT SOURCE	POSITIVE	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	F560W	FASTR1	40	1	1	Dither 1	8	8	888.013	58598
	2	F770W	FASTR1	40	1	1	Dither 1	8	8	888.013	
	3	F1000W	FASTR1	40	1	1	Dither 1	8	8	888.013	58598
	4	F1280W	FASTR1	30	1	1	Dither 1	8	8	666.01	
	5	F1500W	FASTR1	30	1	1	Dither 1	8	8	666.01	
Special Requirements	Same Aperture PA 2, 3, 4, 5, 6										

Proposal 3571 - Observation 16 - MIRI observations of YSO candidates for Unambiguous Evidence of Star formation in the 10pc Mole...

Fri Feb 21 20:00:11 GMT 2025

Observation	<p>Proposal 3571, Observation 16: Gal Cen Copy of Tile-6</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p> <p><i>Comments: Repeat of skipped observation 6</i></p>																																																																											
Diagnostics	<p>(Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 16:1) Informational (Form): Visit schedulable, but most scheduling windows are when JWST is pointed in direction of greatest micrometeoroid impact risk. This is likely due to scheduling special requirements.</p>																																																																											
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="2">Targ. Coord. Corrections</th> <th colspan="5">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>GAL-CENTER-Tile-6</td> <td>RA: 17 45 36.4271 (266.4017796d) Dec: -28 59 17.43 (-28.98818d) Equinox: J2000</td> <td colspan="2">Epoch of Position: 2000</td> <td colspan="5"></td> </tr> </tbody> </table> <p><i>Comments: Category=Stellar Cluster Description=[Open star clusters, Young star clusters]</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections		Miscellaneous					(6)	GAL-CENTER-Tile-6	RA: 17 45 36.4271 (266.4017796d) Dec: -28 59 17.43 (-28.98818d) Equinox: J2000	Epoch of Position: 2000																																																				
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Special Requirements	<p>Aperture PA Range 274.13544897 to 274.13544897 Degrees (V3 269.3 to 269.3)</p>																																																																											