



6558 - Multi-band imaging of protostellar jet

Cycle: 2, Proposal Category: DD

INVESTIGATORS

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OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Jet_Center_adhoc				
	26	Jet_Center_NIRCam	NIRCam Imaging	(1) Jet_Center
	27	Jet_Center_MIRI	MIRI Imaging	(1) Jet_Center

ABSTRACT

This cloud complex is a nearby star-forming region approximately 520 light years away and hosts several proto-stellar jets. The Spitzer image reveals the outflow from a protostar that lies beyond the top edge of the field of view. The protostellar jet creates shocks as it plows through the nearby gas and dust. The JWST image will reveal new intricate details of the infrared color gradient along the jet axis.

OBSERVING DESCRIPTION

This proposal will use the NIRCam and MIRI imaging modes to obtain multi-band imaging to be released in 2024. The images must be sufficiently deep to allow for the creation of low-noise color-composite images. The dither patterns are optimized for uniform depth, efficient removal of cosmic rays and other artifacts. These criteria will also produce very high-quality, science-ready data products for use by the community. This proposal does

JWST Proposal 6558 (Created: Friday, May 31, 2024 at 6:00:20 PM Eastern Standard Time) - Overview
not include spectroscopic observations.

Proposal 6558 - Targets - Multi-band imaging of protostellar jet

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
	(1)	Jet_Center	RA: 11 05 56.9389 (166.4872454d) Dec: -77 33 2.67 (-77.55074d) Equinox: J2000		
<i>Comments:</i> Category=Star Description=[A dwarfs, A stars]					

Proposal 6558 - Observation 26 - Multi-band imaging of protostellar jet

Fri May 31 23:00:20 GMT 2024

Observation	<p>Proposal 6558, Observation 26: Jet_Center_NIRCam</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p>									
Diagnostics	(Visit 26:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Miscellaneous			
	(1)	Jet_Center	RA: 11 05 56.9389 (166.4872454d) Dec: -77 33 2.67 (-77.55074d) Equinox: J2000							
	<p>Comments: Category=Star Description=[A dwarfs, A stars]</p>									
Template	Module		Subarray			Target Placement				
	B		FULL			Module Gap				
Mosaic	Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order			
	2	1	80.053	10.0	0.0	0.0	DEFAULT			
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRAMODULEBOX		4	STANDARD			1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F187N	F470N+F444W	SHALLOW2	7	1	4	4	1374.307	
	2	F115W	F335M	BRIGHT1	7	2	8	4	1159.571	
	3	F200W	F444W	BRIGHT1	6	2	8	4	987.783	
Special Requirements	<p>Before Date 31-AUG-2024:00:00:00</p> <p>Aperture PA Offset 26 from 27 by -2 to 2 Degrees (V3 2.78282206 to 6.78282206)</p>									

Proposal 6558 - Observation 27 - Multi-band imaging of protostellar jet

Fri May 31 23:00:20 GMT 2024

Observation	<p>Proposal 6558, Observation 27: Jet_Center_MIRI</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p>										
Diagnostics	<p>(Visit 27:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 27:2) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous			
	(1)	Jet_Center	RA: 11 05 56.9389 (166.4872454d) Dec: -77 33 2.67 (-77.55074d) Equinox: J2000								
	<p><i>Comments:</i> <i>Category=Star</i> <i>Description=[A dwarfs, A stars]</i></p>										
Template	<p>Subarray</p> <p>FULL</p>										
Mosaic	Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order				
	2	2	60.0	10.0	0.0	0.0	DEFAULT				
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	CYCLING	1	4						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	F770W	FASTR1	35	3	1	Dither 1	4	12	1187.717	
Special Requirements	<p>Before Date 31-AUG-2024:00:00:00</p> <p>Group Visits within 53.0 Days</p> <p>Aperture PA Range 156.83544897 to 159.83544897 Degrees (V3 152.0 to 155.0)</p> <p>Visits Same PA</p> <p>Aperture PA Offset 26 from 27 by -2 to 2 Degrees (V3 2.78282206 to 6.78282206)</p>										