



# 1288 - Radiative Feedback from Massive Stars as Traced by Multiband Imaging and Spectroscopic Mosaics

Cycle: 1, Proposal Category: ERS

## INVESTIGATORS

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## OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Orion				
	1	NIRCam Orion Bar Imaging	NIRCam Imaging	(11) ORIBAR-IMAGING-NIRCAM
	2	MIRI IFU Orion Bar H2	MIRI Medium Resolution Spectroscopy	(10) ORIBAR-MIRI-IFU-H2
	3	NIRSpec IFU Orion Bar H2	NIRSpec IFU Spectroscopy	(14) ORIBAR-NIRSPEC
	15	MIRI Orion Bar Imaging	MIRI Imaging	(12) ORIBAR-IMAGING-MIRI
	16	MIRI Orion Bar Imaging	MIRI Imaging	(12) ORIBAR-IMAGING-MIRI
Background				
	12	MIRI Orion Bar OFF	MIRI Medium Resolution Spectroscopy	(13) ORIBAR-BACKGROUND
	13	NIRSpec Orion Bar OFF	NIRSpec IFU Spectroscopy	(13) ORIBAR-BACKGROUND
	14	MIRI Orion Bar Imaging Off	MIRI Imaging	(13) ORIBAR-BACKGROUND
	17	MIRI Orion Bar Imaging Off	MIRI Imaging	(13) ORIBAR-BACKGROUND

## ABSTRACT

Massive stars disrupt their natal molecular cloud material by dissociating molecules, ionizing atoms and molecules, and heating the gas and dust. These processes drive the evolution of interstellar matter in our Galaxy and throughout the Universe from the era of vigorous star formation at redshifts of 1-3, to the present day. Much of this interaction occurs in Photo-Dissociation Regions (PDRs) where far-ultraviolet photons of these stars create a largely neutral, but warm region of gas and dust. PDR emission dominates the IR spectra of star-forming galaxies and also provides a unique tool to study in detail the physical and chemical processes that are relevant for most of the mass in inter- and circumstellar media including diffuse clouds, protoplanetary disk -and molecular cloud surfaces, globules, planetary nebulae, and starburst galaxies.

We propose to provide template datasets designed to identify key PDR characteristics in JWST spectra in order to guide the preparation of Cycle 2

## JWST Proposal 1288 (Created: Monday, November 28, 2022 at 2:01:08 PM Eastern Standard Time) - Overview

proposals on star-forming regions in our Galaxy and beyond. We plan to obtain the first spatially resolved, high spectral resolution IR observations of a PDR using NIRCcam, NIRSpec and MIRI. These data will test widely used theoretical models and extend them into the JWST era. We have engaged the broader community as exemplified by the supporting large international team of 138 scientists. We will assist the community interested in JWST observations of PDRs through science-enabling products that will guide observational planning and allow fast data analysis. We will train the community through telecons and dedicated workshops.

E. Habart and E. Peeters are co-PIs. NOI reference number is 110.

### **OBSERVING DESCRIPTION**

The unique target of this program is an extended and bright nebula, situated in a star-forming region of our Galaxy. Observations in this program are conducted with NIRCAM, NIRSPEC and MIRI.

- NIRCAM imaging in the following filters : F335M, F212N, F16N, F405N, F300M, F210M, F162M, and F410M

We will map the region with a single pointing using a 4 point dither in BRIGHT2 reading mode.

- MIRI imaging in the following filters : F1130W, F1500W, F2550W, F770W in single pointing using a 3 point dither and the FAST reading mode.

- NIRSPEC IFU spectroscopy

We conduct 3x3 mosaic using all the gratings above 1 micron. We use the H gratings. The observations will be conducted with the NRSRAPID readout, using a 4 point dither. We include a dark exposure to quantify the leakage of the Micro-Shutter Array (MSA). We also include the F560W imaging as a bonus in simultaneous imaging in this setting to obtain a reference image at short MIRI wavelengths.

- MIRI IFU spectroscopy we will conduct a small mosaic over the entire spectral range. We use no target acquisition (extended source) and apply a 4 point dither optimized for extended sources. For the short and long detectors, we use the FAST readout. We also include (as a bonus), simultaneous Imager observations, to obtain an additional image of the PDR in dust emission.

- Specific dates : the dates are selected to be as early as possible in the ERS period, since Orion will only be visible at the end of the ERS. This is required so that we have enough time to deliver the data to the community before Cycle 2 deadline.

- Off observations : We include spectroscopic off observations to subtract any undesirable emission from scattered light from the Sun or the Galactic

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plane, telescope emission, Zodiacal light, or instrumental signal.

# Proposal 1288 - Targets - Radiative Feedback from Massive Stars as Traced by Multiband Imaging and Spectroscopic Mosaics

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(10)	ORIBAR-MIRI-IFU-H2	RA: 05 35 20.4869 (83.8353621d) Dec: -05 25 11.02 (-5.41973d) Equinox: J2000		
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>  <i>Category=ISM</i>  <i>Description=[Dense interstellar clouds, Dust nebulae, Molecular gas, Nebulae, Photodissociation regions]</i>  <i>Extended=YES</i></p>				
(11)	ORIBAR-IMAGING-NIRCAM	RA: 05 35 20.1963 (83.8341512d) Dec: -05 23 10.45 (-5.38624d) Equinox: J2000		
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>  <i>Category=ISM</i>  <i>Description=[Dense interstellar clouds, Dust nebulae, Molecular gas, Nebulae, Photodissociation regions]</i>  <i>Extended=YES</i></p>				
(12)	ORIBAR-IMAGING-MIRI	RA: 05 35 20.3448 (83.8347700d) Dec: -05 25 4.01 (-5.41778d) Equinox: J2000		
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>  <i>Category=ISM</i>  <i>Description=[Dense interstellar clouds, Dust nebulae, Molecular gas, Nebulae, Photodissociation regions]</i>  <i>Extended=YES</i></p>				
(13)	ORIBAR-BACKGROUND	RA: 05 27 19.4000 (81.8308333d) Dec: -05 32 4.40 (-5.53456d) Equinox: J2000		
<p><i>Comments:</i>  <i>Category=ISM</i>  <i>Description=[Interstellar absorption, Interstellar clouds, Interstellar dust]</i>  <i>Extended=YES</i></p>				
(14)	ORIBAR-NIRSPEC	RA: 05 35 20.4749 (83.8353121d) Dec: -05 25 10.45 (-5.41957d) Equinox: J2000		
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>  <i>Category=ISM</i>  <i>Description=[Dense interstellar clouds, Dust nebulae, Molecular gas, Nebulae, Photodissociation regions]</i>  <i>Extended=YES</i></p>				

Fixed Targets

Proposal 1288 - Observation 1 - Radiative Feedback from Massive Stars as Traced by Multiband Imaging and Spectroscopic Mosaics

Mon Nov 28 19:01:08 GMT 2022

<b>Observation</b>	<p><b>Proposal 1288, Observation 1: NIRCcam Orion Bar Imaging</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Imaging</p> <p><i>Comments: We will need to ensure that the bright central star is not in the FOV of the imager - it is very bright!</i></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>		
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	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=ISM</i></p> <p><i>Description=[Dense interstellar clouds, Dust nebulae, Molecular gas, Nebulae, Photodissociation regions]</i></p> <p><i>Extended=YES</i></p>									
<b>Template</b>	<b>Module</b>					<b>Subarray</b>				
	ALL					FULL				
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>	<b>Subpixel Dither Type</b>		<b>Dither Size</b>	<b>Subpixel Positions</b>		
	1	INTRAMODULE		4	STANDARD			1		
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F164N+F150W2	F405N+F444W	RAPID	2	2	8	4	214.735	
	2	F212N	F335M	RAPID	2	2	8	4	214.735	
	3	F187N	F323N+F322W2	RAPID	2	2	8	4	214.735	
	4	F162M+F150W2	F480M	RAPID	2	2	8	4	214.735	
	5	F182M	F300M	RAPID	2	2	8	4	214.735	
	6	F140M	F470N+F444W	RAPID	2	2	8	4	214.735	
	7	F210M	F277W	RAPID	2	2	8	4	214.735	
<b>Special Requirements</b>	<p>Between Dates 01-SEP-2022:00:00:00 and 03-OCT-2022:00:00:00</p> <p>Aperture PA Range 260 to 270 Degrees (V3 260.0713531 to 270.0713531)</p> <p>Offset 3.685014580664251 arcsec, 25.44010346872783 arcsec</p> <p>No Parallel Attachments</p>									

Proposal 1288 - Observation 2 - Radiative Feedback from Massive Stars as Traced by Multiband Imaging and Spectroscopic Mosaics

Mon Nov 28 19:01:08 GMT 2022

<b>Observation</b>	<b>Proposal 1288, Observation 2: MIRI IFU Orion Bar H2</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[MIRI Orion Bar OFF (Obs 12)] <i>Comments: Simultaneous imaging is not using FULL array, this is to avoid saturation which is very likely in full array mode for the Orion Nebula.</i>																																																																																																																																													
<b>Diagnostics</b>	(MIRI IFU Orion Bar H2 (Obs 2)) Warning (Form): Imager Filter overlap. (Visit 2:1) Warning (Form): Data Excess over lower threshold (Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																																																																																																													
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Proposal 1288 - Observation 2 - Radiative Feedback from Massive Stars as Traced by Multiband Imaging and Spectroscopic Mosaics

Special Requirements

Aperture PA Range 58 to 62 Degrees (V3 58.0 to 62.0)

Sequence Observations 2, 12, Non-interruptible

Proposal 1288 - Observation 3 - Radiative Feedback from Massive Stars as Traced by Multiband Imaging and Spectroscopic Mosaics

Mon Nov 28 19:01:08 GMT 2022

<b>Observation</b>	<b>Proposal 1288, Observation 3: NIRSpec IFU Orion Bar H2</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec IFU Spectroscopy Background Observations:[NIRSpec Orion Bar OFF (Obs 13)]											
	(Visit 3:1) 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>			
	(14)	ORIBAR-NIRSPEC	RA: 05 35 20.4749 (83.8353121d) Dec: -05 25 10.45 (-5.41957d) Equinox: J2000									
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<b>Template</b>	<b>TA Method</b>											
	NONE											
<b>Mosaic</b>	<b>Rows</b>	<b>Columns</b>	<b>Row Overlap %</b>	<b>Column Overlap %</b>	<b>Row shift</b>	<b>Column shift</b>	<b>Tile Order</b>					
	1	9	20.0	20.0	0.0	-25.0	DEFAULT					
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>	<b>Size</b>	<b>Starting Point</b>	<b>Number of Points</b>	<b>Points</b>						
	1	4-POINT-DITHER										
<b>Spectral Elements</b>	<b>#</b>	<b>Grating/Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Leakcal</b>	<b>Dither</b>	<b>Autocal</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	G395H/F290LP	NRSRAPID	5	1	false	true	NONE	4	4	257.682	
	2	G395H/F290LP	NRSRAPID	5	1	true	true	NONE	4	4	257.682	
	3	G235H/F170LP	NRSRAPID	5	1	false	true	NONE	4	4	257.682	
	4	G235H/F170LP	NRSRAPID	5	1	true	true	NONE	4	4	257.682	
	5	G140H/F100LP	NRSRAPID	5	1	false	true	NONE	4	4	257.682	
	6	G140H/F100LP	NRSRAPID	5	1	true	true	NONE	4	4	257.682	

Proposal 1288 - Observation 3 - Radiative Feedback from Massive Stars as Traced by Multiband Imaging and Spectroscopic Mosaics

Special Requirements

Between Dates 01-SEP-2022:00:00:00 and 03-OCT-2022:00:00:00  
Aperture PA Range 38.89297485 to 48.89297485 Degrees (V3 259.92044067 to 269.92044067)  
No Parallel Attachments  
Sequence Observations 3, 13, Non-interruptible

Proposal 1288 - Observation 15 - Radiative Feedback from Massive Stars as Traced by Multiband Imaging and Spectroscopic Mosaics

Mon Nov 28 19:01:08 GMT 2022

<b>Observation</b>	<b>Proposal 1288, Observation 15: MIRI Orion Bar Imaging</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Imaging Coordinated Parallel Template(s): NIRCcam Imaging <i>Comments: We will need to ensure that the bright central star is not in the FOV of the imager - it is very bright!</i> <i>Subarray is used to avoid saturation.</i>										
	(Visit 15:1) 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>		
	(12)	ORIBAR-IMAGING-MIRI	RA: 05 35 20.3448 (83.8347700d) Dec: -05 25 4.01 (-5.41778d) Equinox: J2000  <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=ISM</i> <i>Description=[Dense interstellar clouds, Dust nebulae, Molecular gas, Nebulae, Photodissociation regions]</i> <i>Extended=YES</i>								
<b>Template</b>	<b>MIRI Imaging</b>					<b>NIRCcam Imaging</b>					
	Subarray: SUB128					Module: ALL Subarray: FULL					
<b>Mosaic</b>	<b>Rows</b>	<b>Columns</b>	<b>Row Overlap %</b>	<b>Column Overlap %</b>	<b>Row shift</b>	<b>Column shift</b>	<b>Tile Order</b>				
	3	3	10.0	10.0	0.0	0.0	DEFAULT				
<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	3-POINT-MIRI-F770W-WITH-NIRCcam	1	4						DEFAULT	
<b>Spectral Elements</b>	<b>MIRI Imaging</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	5	115	1	Dither 1	3	345	246.056	
	2	F1130W	FASTR1	5	115	1	Dither 1	3	345	246.056	
<b>Spectral Elements</b>	<b>NIRCcam Imaging</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>	
	1	F187N	F410M	BRIGHT2	2	1	3	3	128.841		
	2	F212N	F300M	BRIGHT2	2	1	3	3	128.841		

# Proposal 1288 - Observation 15 - Radiative Feedback from Massive Stars as Traced by Multiband Imaging and Spectroscopic Mosaics

## Special Requirements

Between Dates 01-SEP-2022:00:00:00 and 03-OCT-2022:00:00:00

No Parallel Attachments

Sequence Observations 14, 15, Non-interruptible

Proposal 1288 - Observation 16 - Radiative Feedback from Massive Stars as Traced by Multiband Imaging and Spectroscopic Mosaics

Mon Nov 28 19:01:08 GMT 2022

<b>Observation</b>	<b>Proposal 1288, Observation 16: MIRI Orion Bar Imaging</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Imaging Coordinated Parallel Template(s): NIRCcam Imaging <i>Comments: We will need to ensure that the bright central star is not in the FOV of the imager - it is very bright!</i> <i>Subarray is used to avoid saturation.</i>										
	(Visit 16:1) 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>			
	(12)	ORIBAR-IMAGING-MIRI	RA: 05 35 20.3448 (83.8347700d) Dec: -05 25 4.01 (-5.41778d) Equinox: J2000  <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=ISM</i> <i>Description=[Dense interstellar clouds, Dust nebulae, Molecular gas, Nebulae, Photodissociation regions]</i> <i>Extended=YES</i>								
<b>Template</b>	<b>MIRI Imaging</b>					<b>NIRCcam Imaging</b>					
	Subarray: SUB128					Module: ALL Subarray: FULL					
<b>Mosaic</b>	<b>Rows</b>	<b>Columns</b>	<b>Row Overlap %</b>	<b>Column Overlap %</b>	<b>Row shift</b>	<b>Column shift</b>	<b>Tile Order</b>				
	3	3	10.0	10.0	0.0	0.0	DEFAULT				
<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	3-POINT-MIRI-F770W-WITH-NIRCcam	1	4						DEFAULT	
<b>Spectral Elements</b>	<b>MIRI Imaging</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	F1500W	FASTR1	5	115	1	Dither 1	3	345	246.056	
	2	F2550W	FASTR1	5	115	1	Dither 1	3	345	246.056	
<b>Spectral Elements</b>	<b>NIRCcam Imaging</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>	
	1	F182M	F335M	BRIGHT2	2	1	3	3	128.841		
	2	F210M	F405N+F444W	BRIGHT2	2	1	3	3	128.841		

Proposal 1288 - Observation 16 - Radiative Feedback from Massive Stars as Traced by Multiband Imaging and Spectroscopic Mosaics

Special Requirements

Between Dates 01-SEP-2022:00:00:00 and 03-OCT-2022:00:00:00  
No Parallel Attachments  
Sequence Observations 16, 17, Non-interruptible

Proposal 1288 - Observation 12 - Radiative Feedback from Massive Stars as Traced by Multiband Imaging and Spectroscopic Mosaics

Mon Nov 28 19:01:08 GMT 2022

<b>Observation</b>	<b>Proposal 1288, Observation 12: MIRI Orion Bar OFF</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [MIRI IFU Orion Bar H2 (Obs 2)]																																																																																																																																													
	(MIRI Orion Bar OFF (Obs 12)) Warning (Form): Imager Filter overlap. (Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																																																																																																													
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(13)</td> <td>ORIBAR-BACKGROUND</td> <td>RA: 05 27 19.4000 (81.8308333d) Dec: -05 32 4.40 (-5.53456d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table>												#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(13)	ORIBAR-BACKGROUND	RA: 05 27 19.4000 (81.8308333d) Dec: -05 32 4.40 (-5.53456d) Equinox: J2000																																																																																																																										
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Comments: Category=ISM Description=[Interstellar absorption, Interstellar clouds, Interstellar dust] Extended=YES																																																																																																																																														
<b>Acquisition</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NONE</td> </tr> </tbody> </table>												#	Target	1	NONE																																																																																																																														
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<b>Template</b>	<table border="1"> <thead> <tr> <th>AcqFilter</th> <th>Primary Channel</th> <th>Simultaneous Imaging</th> <th>Imager Subarray</th> </tr> </thead> <tbody> <tr> <td>F560W</td> <td>ALL</td> <td>YES</td> <td>FULL</td> </tr> </tbody> </table>												AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	F560W	ALL	YES	FULL																																																																																																																										
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<b>Dithers</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Optimized For</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4-Point</td> <td>EXTENDED SOURCE</td> <td>NEGATIVE</td> </tr> </tbody> </table>												#	Dither Type	Optimized For	Direction	1	4-Point	EXTENDED SOURCE	NEGATIVE																																																																																																																										
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<b>Spectral Elements</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Wavelength Range</th> <th>Detector</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></td> <td>IMAGER</td> <td>F770W</td> <td>FASTR1</td> <td>47</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>521.708</td> <td></td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>47</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>521.708</td> <td></td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>47</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>521.708</td> <td></td> </tr> <tr> <td>2</td> <td></td> <td>IMAGER</td> <td>F1130W</td> <td>FASTR1</td> <td>47</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>521.708</td> <td></td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>47</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>521.708</td> <td></td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>47</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>521.708</td> <td></td> </tr> <tr> <td>3</td> <td></td> <td>IMAGER</td> <td>F1500W</td> <td>FASTR1</td> <td>47</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>521.708</td> <td></td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>47</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>521.708</td> <td></td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>47</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>521.708</td> <td></td> </tr> </tbody> </table>												#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1		IMAGER	F770W	FASTR1	47	1	1	Dither 1	4	4	521.708		1	SHORT(A)	MRSLONG		FASTR1	47	1	1	Dither 1	4	4	521.708		1	SHORT(A)	MRSSHORT		FASTR1	47	1	1	Dither 1	4	4	521.708		2		IMAGER	F1130W	FASTR1	47	1	1	Dither 1	4	4	521.708		2	MEDIUM(B)	MRSLONG		FASTR1	47	1	1	Dither 1	4	4	521.708		2	MEDIUM(B)	MRSSHORT		FASTR1	47	1	1	Dither 1	4	4	521.708		3		IMAGER	F1500W	FASTR1	47	1	1	Dither 1	4	4	521.708		3	LONG(C)	MRSLONG		FASTR1	47	1	1	Dither 1	4	4	521.708		3	LONG(C)	MRSSHORT		FASTR1	47	1	1	Dither 1	4	4	521.708	
	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																																																																																																																																	
	1		IMAGER	F770W	FASTR1	47	1	1	Dither 1	4	4	521.708																																																																																																																																		
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	2		IMAGER	F1130W	FASTR1	47	1	1	Dither 1	4	4	521.708																																																																																																																																		
	2	MEDIUM(B)	MRSLONG		FASTR1	47	1	1	Dither 1	4	4	521.708																																																																																																																																		
	2	MEDIUM(B)	MRSSHORT		FASTR1	47	1	1	Dither 1	4	4	521.708																																																																																																																																		
	3		IMAGER	F1500W	FASTR1	47	1	1	Dither 1	4	4	521.708																																																																																																																																		
	3	LONG(C)	MRSLONG		FASTR1	47	1	1	Dither 1	4	4	521.708																																																																																																																																		
3	LONG(C)	MRSSHORT		FASTR1	47	1	1	Dither 1	4	4	521.708																																																																																																																																			

Special Requirements

Sequence Observations 2, 12, Non-interruptible

Proposal 1288 - Observation 13 - Radiative Feedback from Massive Stars as Traced by Multiband Imaging and Spectroscopic Mosaics

Mon Nov 28 19:01:08 GMT 2022

<b>Observation</b>	<p><b>Proposal 1288, Observation 13: NIRSpect Orion Bar OFF</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpect IFU Spectroscopy</p> <p>Background Observation For: [NIRSpect IFU Orion Bar H2 (Obs 3)]</p>											
<b>Diagnostics</b>	(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(13)	ORIBAR-BACKGROUND	RA: 05 27 19.4000 (81.8308333d) Dec: -05 32 4.40 (-5.53456d) Equinox: J2000									
	<p><i>Comments:</i>  <i>Category=ISM</i>  <i>Description=[Interstellar absorption, Interstellar clouds, Interstellar dust]</i>  <i>Extended=YES</i></p>											
<b>Template</b>	<b>TA Method</b>											
	NONE											
<b>Dithers</b>	#	Dither Type		Size	Starting Point			Number of Points	Points			
	1	4-POINT-DITHER										
<b>Spectral Elements</b>	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	NRSRAPID	5	1	false	true	NONE	4	4	257.682	
	2	G395H/F290LP	NRSRAPID	5	1	true	true	NONE	4	4	257.682	
	3	G235H/F170LP	NRSRAPID	5	1	false	true	NONE	4	4	257.682	
	4	G235H/F170LP	NRSRAPID	5	1	true	true	NONE	4	4	257.682	
	5	G140H/F100LP	NRSRAPID	5	1	false	true	NONE	4	4	257.682	
	6	G140H/F100LP	NRSRAPID	5	1	true	true	NONE	4	4	257.682	
<b>Special Requirements</b>	Sequence Observations 3, 13, Non-interruptible											

Proposal 1288 - Observation 14 - Radiative Feedback from Massive Stars as Traced by Multiband Imaging and Spectroscopic Mosaics

Mon Nov 28 19:01:08 GMT 2022

<b>Observation</b>	<b>Proposal 1288, Observation 14: MIRI Orion Bar Imaging Off</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Imaging Background Observation For: [] Coordinated Parallel Template(s): NIRCam Imaging <i>Comments: We will need to ensure that the bright central star is not in the FOV of the imager - it is very bright!</i> <i>Subarray is used to avoid saturation.</i>										
	(Visit 14:1) 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>			
	(13)	ORIBAR-BACKGROUND	RA: 05 27 19.4000 (81.8308333d) Dec: -05 32 4.40 (-5.53456d) Equinox: J2000  <i>Comments:</i> <i>Category=ISM</i> <i>Description=[Interstellar absorption, Interstellar clouds, Interstellar dust]</i> <i>Extended=YES</i>								
<b>Template</b>	<b>MIRI Imaging</b>					<b>NIRCam Imaging</b>					
	Subarray: SUB128					Module: ALL Subarray: FULL					
<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	3-POINT-MIRI-F770W-WITH-NIRCam	1	4						DEFAULT	
<b>Spectral Elements</b>	<b>MIRI Imaging</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	5	115	1	Dither 1	3	345	246.056	
	2	F1130W	FASTR1	5	115	1	Dither 1	3	345	246.056	
<b>Spectral Elements</b>	<b>NIRCam Imaging</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>	
	1	F187N	F410M	BRIGHT2	2	1	3	3	128.841		
	2	F212N	F300M	BRIGHT2	2	1	3	3	128.841		

Proposal 1288 - Observation 14 - Radiative Feedback from Massive Stars as Traced by Multiband Imaging and Spectroscopic Mosaics

**Special Requirements**

No Parallel Attachments

Sequence Observations 14, 15, Non-interruptible

Proposal 1288 - Observation 17 - Radiative Feedback from Massive Stars as Traced by Multiband Imaging and Spectroscopic Mosaics

Mon Nov 28 19:01:08 GMT 2022

<b>Observation</b>	<b>Proposal 1288, Observation 17: MIRI Orion Bar Imaging Off</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Imaging Background Observation For: [] Coordinated Parallel Template(s): NIRCam Imaging <i>Comments: We will need to ensure that the bright central star is not in the FOV of the imager - it is very bright!</i> <i>Subarray is used to avoid saturation.</i>										
	(Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
<b>Diagnosics</b>											
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>		<b>Miscellaneous</b>			
	(13)	ORIBAR-BACKGROUND	RA: 05 27 19.4000 (81.8308333d) Dec: -05 32 4.40 (-5.53456d) Equinox: J2000								
<b>Template</b>	<b>MIRI Imaging</b>					<b>NIRCam Imaging</b>					
	Subarray: SUB128					Module: ALL Subarray: FULL					
<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	3-POINT-MIRI-F770W-WITH-NIRCam	1	4						DEFAULT	
<b>Spectral Elements</b>	<b>MIRI Imaging</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	F1500W	FASTR1	5	115	1	Dither 1	3	345	246.056	
	2	F2550W	FASTR1	5	115	1	Dither 1	3	345	246.056	
<b>Spectral Elements</b>	<b>NIRCam Imaging</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>	
	1	F182M	F335M	BRIGHT2	2	1	3	3	128.841		
	2	F210M	F405N+F444W	BRIGHT2	2	1	3	3	128.841		

Proposal 1288 - Observation 17 - Radiative Feedback from Massive Stars as Traced by Multiband Imaging and Spectroscopic Mosaics

**Special Requirements**

No Parallel Attachments

Sequence Observations 16, 17, Non-interruptible