



## 9442 - MIRI MRS Observations of the Third Interstellar Object

Cycle: 4, Proposal Category: DD

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>
<b>Matthew Belyakov (PI)</b>	<b>California Institute of Technology</b>
Dr. Michael E Brown (CoI)	California Institute of Technology
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Dr. Bryce Bolin (CoI)	Eureka Scientific Inc.

### OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1	3I_Atlas_visit1A	MIRI Medium Resolution Spectroscopy	(1) 3I_Atlas
	13	3I_Atlas_visit1A	MIRI Medium Resolution Spectroscopy	(3) 3I_Atlas_repeat
	2	3I_Atlas_visit1B	MIRI Medium Resolution Spectroscopy	(1) 3I_Atlas
	3	3I_Atlas_visit1C	MIRI Medium Resolution Spectroscopy	(1) 3I_Atlas
	4	3I_Atlas_visit2A	MIRI Medium Resolution Spectroscopy	(1) 3I_Atlas
	5	3I_Atlas_visit2B	MIRI Medium Resolution Spectroscopy	(1) 3I_Atlas
	15	3I_Atlas_visit2B	MIRI Medium Resolution Spectroscopy	(3) 3I_Atlas_repeat
	6	3I_Atlas_visit2C	MIRI Medium Resolution Spectroscopy	(1) 3I_Atlas
	7	3I_Atlas_Bkg1A	MIRI Medium Resolution Spectroscopy	(2) ISO_background
	14	3I_Atlas_Bkg1A	MIRI Medium Resolution Spectroscopy	(4) ISO_background_repeat
	8	3I_Atlas_Bkg1B	MIRI Medium Resolution Spectroscopy	(2) ISO_background
	9	3I_Atlas_Bkg1C	MIRI Medium Resolution Spectroscopy	(2) ISO_background
	10	3I_Atlas_Bkg2A	MIRI Medium Resolution Spectroscopy	(2) ISO_background
	11	3I_Atlas_Bkg2B	MIRI Medium Resolution Spectroscopy	(2) ISO_background

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	16	3I_Atlas_Bkg2B	MIRI Medium Resolution Spectroscopy	(4) ISO_background_repeat
	12	3I_Atlas_Bkg2C	MIRI Medium Resolution Spectroscopy	(2) ISO_background

## **ABSTRACT**

Interstellar Comet C/2025 N1 or 3I/Atlas was discovered on July 2nd, 2025, and is the third observed interstellar object (ISO), and the largest of its class seen. ISOs are thought to be remnants of planet formation, allowing us to directly measure the physical properties of individual planetesimals from systems other than our own. MIRI MRS is the only instrument currently in operation that can observe the entire 5-28 micron wavelength range at high spectral resolution, which is required to probe the silicate content of a distant star system. The proposed observations will provide a bridge between the study of debris disks and individual bodies in the solar system, and link observations of those disks to the primordial bodies that compose them. Current TOO observations that are part of program 5094 will observe the target using MIRI LRS, which is insufficient to measure Fe/Mg ratios capable of tracing thermal histories and also misses the silicate bands past 14 microns, which are necessary for deconvolving temperature, surface properties, and composition. Moreover, MRS is the only instrument capable of fully separating individual ro-vibrational emission lines, such as those of water ice at 6 microns, which is necessary to explain the nature of the activity seen on 3I/Atlas as compared to solar system bodies. It is essential to characterize this interloping object due to its short observing window contained entirely within JWST Cycle 4.

## **OBSERVING DESCRIPTION**

We target the new interstellar object 3I/Atlas using MIRI MRS. We split our observations over two visits to the target due to its significant on-sky motion which precludes one lengthy observation. Our visits take 100 groups in FASTR1 mode in one exposure over four dithers. We obtain background images for both visits, using only two dithers. The observations are constrained to the month of December to ensure highest signal-to-noise on this target. We request 9.2 hours of JWST Director's Discretionary time to use MIRI MRS to characterize the key physical properties of I/3 Atlas and its key compositional constituents.

Proposal 9442 - Targets - MIRI MRS Observations of the Third Interstellar Object

#	Name	Level 1	Level 2	Level 3
(1)	3I_Atlas	TYPE=COMET,Q=1.356400970215075,E=6.1393295 0109603,I=175.1130875201685 ,O=322.156555004837,W=128.0099429877499,T=29 -OCT- 2025:11:34:26,TimeScale=TDB,EQUINOX=J2000,E POCH=02-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=7.677051544189E-8,A2=5.097390651703E- 8,A3=-3.581097722054E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		
<i>Comments: Extended=YES</i>				
(2)	ISO_background	TYPE=COMET,Q=1.356400970215075,E=6.1393295 0109603,I=175.1130875201685 ,O=322.156555004837,W=128.0099429877499,T=29 -OCT- 2025:11:34:26,TimeScale=TDB,EQUINOX=J2000,E POCH=02-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=7.677051544189E-8,A2=5.097390651703E- 8,A3=-3.581097722054E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.	TYPE=POS_ANGLE,RAD=300,ANG=90,REF=SUN	
<i>Comments: Extended=NO</i>				
(3)	3I_Atlas_repeat	TYPE=COMET,Q=1.356418237859906,E=6.1394337 23877776,I=175.1130926962195 ,O=322.1566409267227,W=128.0097228929673,T=29 -OCT- 2025:11:34:18,TimeScale=TDB,EQUINOX=J2000,E POCH=04-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=4.368369102478E-8,A2=1.595561385155E- 8,A3=-5.178292989731E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		
<i>Comments: Extended=YES</i>				
(4)	ISO_background_repeat	TYPE=COMET,Q=1.356418237859906,E=6.1394337 23877776,I=175.1130926962195 ,O=322.1566409267227,W=128.0097228929673,T=29 -OCT- 2025:11:34:18,TimeScale=TDB,EQUINOX=J2000,E POCH=04-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=4.368369102478E-8,A2=1.595561385155E- 8,A3=-5.178292989731E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.	TYPE=POS_ANGLE,RAD=300,ANG=90,REF=SUN	
<i>Comments: Extended=NO</i>				

Solar System Targets

Proposal 9442 - Observation 1 - MIRI MRS Observations of the Third Interstellar Object

Fri Dec 19 00:00:15 GMT 2025

<b>Observation</b>	<b>Proposal 9442, Observation 1: 3I_Atlas_visit1A</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[3I_Atlas_Bkg1A (Obs 7)]												
	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (3I_Atlas_visit1A (Obs 1)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
<b>Diagnostics</b>													
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>				<b>Level 2</b>				<b>Level 3</b>		
	(1)	3I_Atlas	TYPE=COMET,Q=1.356400970215075,E=6.1393295 0109603,I=175.1130875201685 ,O=322.1565555004837,W=128.0099429877499,T=29 -OCT- 2025:11:34:26,TimeScale=TDB,EQUINOX=J2000,E POCH=02-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=7.677051544189E-8,A2=5.097390651703E- 8,A3=-3.581097722054E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.										
<i>Comments: Extended=YES</i>													
<b>Acquisition</b>	<b>#</b>											<b>Target</b>	
	1											NONE	
<b>Template</b>	<b>AcqFilter</b>	<b>Primary Channel</b>				<b>Simultaneous Imaging</b>				<b>Imager Subarray</b>		<b>Grating Wheel Direction</b>	
		All MRS				NO				FULL		Allow Auto Reorder	
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>				<b>Optimized For</b>				<b>Direction</b>			
	1	4-Point				POINT SOURCE				NEGATIVE			
<b>Spectral Elements</b>	<b>#</b>	<b>Wavelength Range</b>	<b>Detector</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/E xp</b>	<b>Exposures/Dit h</b>	<b>Dither</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>Optional ETC ID</b>
	1	SHORT(A)	MRSLONG		FASTR1	75	1	1	Dither 1	4	4	832.512	
	1	SHORT(A)	MRSSHORT		FASTR1	75	1	1	Dither 1	4	4	832.512	

## Proposal 9442 - Observation 1 - MIRI MRS Observations of the Third Interstellar Object

### Special Requirements

Between Dates 01-DEC-2025:00:00:00 and 01-JAN-2026:00:00:00

Sequence Observations 1, 7, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE 3I\_Atlas FROM JWST LESS THAN 0.075

Proposal 9442 - Observation 13 - MIRI MRS Observations of the Third Interstellar Object

Fri Dec 19 00:00:15 GMT 2025

<b>Observation</b>	<p><b>Proposal 9442, Observation 13: 3I_Atlas_visit1A</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Medium Resolution Spectroscopy</p>																																																		
	<b>Diagnostics</b>	<p>(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(3I_Atlas_visit1A (Obs 13)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p> <p>(Visit 13:1) 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>																																																	
<b>Solar System Targets</b>		<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>3I_Atlas_repeat</td> <td>TYPE=COMET,Q=1.356418237859906,E=6.1394337 23877776,I=175.1130926962195 ,O=322.1566409267227,W=128.0097228929673,T=29 -OCT- 2025:11:34:18,TTIMEscale=TDB,EQUINOX=J2000,E POCH=04-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=4.368369102478E-8,A2=1.595561385155E- 8,A3=-5.178292989731E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments: Extended=YES</i></p>												#	Name	Level 1	Level 2	Level 3	(3)	3I_Atlas_repeat	TYPE=COMET,Q=1.356418237859906,E=6.1394337 23877776,I=175.1130926962195 ,O=322.1566409267227,W=128.0097228929673,T=29 -OCT- 2025:11:34:18,TTIMEscale=TDB,EQUINOX=J2000,E POCH=04-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=4.368369102478E-8,A2=1.595561385155E- 8,A3=-5.178292989731E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.																														
	#	Name	Level 1	Level 2	Level 3																																														
(3)	3I_Atlas_repeat	TYPE=COMET,Q=1.356418237859906,E=6.1394337 23877776,I=175.1130926962195 ,O=322.1566409267227,W=128.0097228929673,T=29 -OCT- 2025:11:34:18,TTIMEscale=TDB,EQUINOX=J2000,E POCH=04-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=4.368369102478E-8,A2=1.595561385155E- 8,A3=-5.178292989731E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.																																																	
<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> <th>Grating Wheel Direction</th> </tr> </thead> <tbody> <tr> <td></td> <td>All MRS</td> <td>NO</td> <td>FULL</td> <td>Allow Auto Reorder</td> </tr> </tbody> </table>												AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction		All MRS	NO	FULL	Allow Auto Reorder																													
	AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction																																														
	All MRS	NO	FULL	Allow Auto Reorder																																															
<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																															
	#	Dither Type	Optimized For	Direction																																															
1	4-Point	EXTENDED SOURCE	NEGATIVE																																																
<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/E xp</th> <th>Exposures/Dit h</th> <th>Dither</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>70</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>777.011</td> <td></td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>70</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>777.011</td> <td></td> </tr> </tbody> </table>												#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID	1	SHORT(A)	MRSLONG		FASTR1	70	1	1	Dither 1	4	4	777.011		1	SHORT(A)	MRSSHORT		FASTR1	70	1	1	Dither 1	4	4	777.011	
	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID																																						
	1	SHORT(A)	MRSLONG		FASTR1	70	1	1	Dither 1	4	4	777.011																																							
1	SHORT(A)	MRSSHORT		FASTR1	70	1	1	Dither 1	4	4	777.011																																								

## Proposal 9442 - Observation 13 - MIRI MRS Observations of the Third Interstellar Object

### Special Requirements

Between Dates 01-DEC-2025:00:00:00 and 01-JAN-2026:00:00:00

DEFAULT WINDOW: ANGULAR RATE 3I\_Atlas\_repeat FROM JWST LESS THAN 0.075

Proposal 9442 - Observation 2 - MIRI MRS Observations of the Third Interstellar Object

Fri Dec 19 00:00:15 GMT 2025

<b>Observation</b>	<b>Proposal 9442, Observation 2: 3I_Atlas_visit1B</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[3I_Atlas_Bkg1B (Obs 8)]												
	(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (3I_Atlas_visit1B (Obs 2)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
<b>Diagnostics</b>													
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>				<b>Level 2</b>				<b>Level 3</b>		
	(1)	3I_Atlas	TYPE=COMET,Q=1.356400970215075,E=6.1393295 0109603,I=175.1130875201685 ,O=322.1565555004837,W=128.0099429877499,T=29 -OCT- 2025:11:34:26,TTimeScale=TDB,EQUINOX=J2000,E POCH=02-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=7.677051544189E-8,A2=5.097390651703E- 8,A3=-3.581097722054E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.										
<i>Comments: Extended=YES</i>													
<b>Acquisition</b>	<b>#</b>											<b>Target</b>	
	1											NONE	
<b>Template</b>	<b>AcqFilter</b>	<b>Primary Channel</b>			<b>Simultaneous Imaging</b>			<b>Imager Subarray</b>			<b>Grating Wheel Direction</b>		
		All MRS			NO			FULL			Allow Auto Reorder		
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>				<b>Optimized For</b>				<b>Direction</b>			
	1	4-Point				POINT SOURCE				NEGATIVE			
<b>Spectral Elements</b>	<b>#</b>	<b>Wavelength Range</b>	<b>Detector</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/E xp</b>	<b>Exposures/Dit h</b>	<b>Dither</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>Optional ETC ID</b>
	1	MEDIUM(B)	MRSLONG		FASTR1	75	1	1	Dither 1	4	4	832.512	
	1	MEDIUM(B)	MRSSHORT		FASTR1	75	1	1	Dither 1	4	4	832.512	

## Proposal 9442 - Observation 2 - MIRI MRS Observations of the Third Interstellar Object

### Special Requirements

Between Dates 01-DEC-2025:00:00:00 and 01-JAN-2026:00:00:00

Sequence Observations 2, 8, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE 3I\_Atlas FROM JWST LESS THAN 0.075

Proposal 9442 - Observation 3 - MIRI MRS Observations of the Third Interstellar Object

Fri Dec 19 00:00:15 GMT 2025

<b>Observation</b>	<b>Proposal 9442, Observation 3: 3I_Atlas_visit1C</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[3I_Atlas_Bkg1C (Obs 9)]												
	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (3I_Atlas_visit1C (Obs 3)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
<b>Diagnostics</b>													
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>				<b>Level 2</b>				<b>Level 3</b>		
	(1)	3I_Atlas	TYPE=COMET,Q=1.356400970215075,E=6.1393295 0109603,I=175.1130875201685 ,O=322.1565555004837,W=128.0099429877499,T=29 -OCT- 2025:11:34:26,TTimeScale=TDB,EQUINOX=J2000,E POCH=02-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=7.677051544189E-8,A2=5.097390651703E- 8,A3=-3.581097722054E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.										
<i>Comments: Extended=YES</i>													
<b>Acquisition</b>	<b>#</b>											<b>Target</b>	
	1											NONE	
<b>Template</b>	<b>AcqFilter</b>	<b>Primary Channel</b>				<b>Simultaneous Imaging</b>				<b>Imager Subarray</b>		<b>Grating Wheel Direction</b>	
		All MRS				NO				FULL		Allow Auto Reorder	
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>				<b>Optimized For</b>				<b>Direction</b>			
	1	4-Point				POINT SOURCE				NEGATIVE			
<b>Spectral Elements</b>	<b>#</b>	<b>Wavelength Range</b>	<b>Detector</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>Optional ETC ID</b>
	1	LONG(C)	MRSLONG		FASTR1	75	1	1	Dither 1	4	4	832.512	
	1	LONG(C)	MRSSHORT		FASTR1	75	1	1	Dither 1	4	4	832.512	

## Proposal 9442 - Observation 3 - MIRI MRS Observations of the Third Interstellar Object

### Special Requirements

Between Dates 01-DEC-2025:00:00:00 and 01-JAN-2026:00:00:00

Sequence Observations 3, 9, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE 3L\_Atlas FROM JWST LESS THAN 0.075

Proposal 9442 - Observation 4 - MIRI MRS Observations of the Third Interstellar Object

Fri Dec 19 00:00:15 GMT 2025

<b>Observation</b>	<b>Proposal 9442, Observation 4: 3I_Atlas_visit2A</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[3I_Atlas_Bkg2A (Obs 10)]												
	(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (3I_Atlas_visit2A (Obs 4)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
<b>Diagnostics</b>													
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>				<b>Level 2</b>				<b>Level 3</b>		
	(1)	3I_Atlas	TYPE=COMET,Q=1.356400970215075,E=6.1393295 0109603,I=175.1130875201685 ,O=322.1565555004837,W=128.0099429877499,T=29 -OCT- 2025:11:34:26,TTimeScale=TDB,EQUINOX=J2000,E POCH=02-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=7.677051544189E-8,A2=5.097390651703E- 8,A3=-3.581097722054E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.										
<i>Comments: Extended=YES</i>													
<b>Acquisition</b>	<b>#</b>											<b>Target</b>	
	1											NONE	
<b>Template</b>	<b>AcqFilter</b>	<b>Primary Channel</b>				<b>Simultaneous Imaging</b>				<b>Imager Subarray</b>		<b>Grating Wheel Direction</b>	
		All MRS				NO				FULL		Allow Auto Reorder	
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>				<b>Optimized For</b>				<b>Direction</b>			
	1	4-Point				POINT SOURCE				NEGATIVE			
<b>Spectral Elements</b>	<b>#</b>	<b>Wavelength Range</b>	<b>Detector</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/E xp</b>	<b>Exposures/Dit h</b>	<b>Dither</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>Optional ETC ID</b>
	1	SHORT(A)	MRSLONG		FASTR1	75	1	1	Dither 1	4	4	832.512	
	1	SHORT(A)	MRSSHORT		FASTR1	75	1	1	Dither 1	4	4	832.512	

## Proposal 9442 - Observation 4 - MIRI MRS Observations of the Third Interstellar Object

### Special Requirements

Between Dates 01-DEC-2025:00:00:00 and 01-JAN-2026:00:00:00

Sequence Observations 4, 10, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE 3L\_Atlas FROM JWST LESS THAN 0.075

Proposal 9442 - Observation 5 - MIRI MRS Observations of the Third Interstellar Object

Fri Dec 19 00:00:15 GMT 2025

<b>Observation</b>	<b>Proposal 9442, Observation 5: 3I_Atlas_visit2B</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[3I_Atlas_Bkg2B (Obs 11)]												
	(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (3I_Atlas_visit2B (Obs 5)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
<b>Diagnostics</b>													
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>				<b>Level 2</b>				<b>Level 3</b>		
	(1)	3I_Atlas	TYPE=COMET,Q=1.356400970215075,E=6.1393295 0109603,I=175.1130875201685 ,O=322.1565555004837,W=128.0099429877499,T=29 -OCT- 2025:11:34:26,TTimeScale=TDB,EQUINOX=J2000,E POCH=02-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=7.677051544189E-8,A2=5.097390651703E- 8,A3=-3.581097722054E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.										
<i>Comments: Extended=YES</i>													
<b>Acquisition</b>	<b>#</b>											<b>Target</b>	
	1											NONE	
<b>Template</b>	<b>AcqFilter</b>	<b>Primary Channel</b>			<b>Simultaneous Imaging</b>			<b>Imager Subarray</b>			<b>Grating Wheel Direction</b>		
		All MRS			NO			FULL			Allow Auto Reorder		
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>				<b>Optimized For</b>				<b>Direction</b>			
	1	4-Point				POINT SOURCE				NEGATIVE			
<b>Spectral Elements</b>	<b>#</b>	<b>Wavelength Range</b>	<b>Detector</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/E xp</b>	<b>Exposures/Dit h</b>	<b>Dither</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>Optional ETC ID</b>
	1	MEDIUM(B)	MRSLONG		FASTR1	75	1	1	Dither 1	4	4	832.512	
	1	MEDIUM(B)	MRSSHORT		FASTR1	75	1	1	Dither 1	4	4	832.512	

## Proposal 9442 - Observation 5 - MIRI MRS Observations of the Third Interstellar Object

### Special Requirements

Between Dates 01-DEC-2025:00:00:00 and 01-JAN-2026:00:00:00

Sequence Observations 5, 11, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE 3I\_Atlas FROM JWST LESS THAN 0.075

Proposal 9442 - Observation 15 - MIRI MRS Observations of the Third Interstellar Object

Fri Dec 19 00:00:15 GMT 2025

<b>Observation</b>	<b>Proposal 9442, Observation 15: 3I_Atlas_visit2B</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy												
	<b>Diagnostics</b>	(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (3I_Atlas_visit2B (Obs 15)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. (Visit 15:1) 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.											
<b>Solar System Targets</b>		#	Name	Level 1				Level 2				Level 3	
	(3)	3I_Atlas_repeat	TYPE=COMET,Q=1.356418237859906,E=6.1394337 23877776,I=175.1130926962195 ,O=322.1566409267227,W=128.0097228929673,T=29 -OCT- 2025:11:34:18,TTIMEscale=TDB,EQUINOX=J2000,E POCH=04-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=4.368369102478E-8,A2=1.595561385155E- 8,A3=-5.178292989731E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0. Comments: Extended=YES										
<b>Acquisition</b>	#											Target	
	1											NONE	
<b>Template</b>	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		Allow Auto Reorder			
<b>Dithers</b>	#	Dither Type				Optimized For				Direction			
	1	4-Point				EXTENDED SOURCE				NEGATIVE			
<b>Spectral Elements</b>	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
	1	MEDIUM(B)	MRSLONG		FASTR1	70	1	1	Dither 1	4	4	777.011	
	1	MEDIUM(B)	MRSSHORT		FASTR1	70	1	1	Dither 1	4	4	777.011	

## Proposal 9442 - Observation 15 - MIRI MRS Observations of the Third Interstellar Object

### Special Requirements

Between Dates 01-DEC-2025:00:00:00 and 01-JAN-2026:00:00:00

DEFAULT WINDOW: ANGULAR RATE 3I\_Atlas\_repeat FROM JWST LESS THAN 0.075

Proposal 9442 - Observation 6 - MIRI MRS Observations of the Third Interstellar Object

Fri Dec 19 00:00:15 GMT 2025

<b>Observation</b>	<b>Proposal 9442, Observation 6: 3I_Atlas_visit2C</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[3I_Atlas_Bkg2C (Obs 12)]												
	(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (3I_Atlas_visit2C (Obs 6)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
<b>Diagnostics</b>													
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>				<b>Level 2</b>				<b>Level 3</b>		
	(1)	3I_Atlas	TYPE=COMET,Q=1.356400970215075,E=6.1393295 0109603,I=175.1130875201685 ,O=322.1565555004837,W=128.0099429877499,T=29 -OCT- 2025:11:34:26,TimeScale=TDB,EQUINOX=J2000,E POCH=02-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=7.677051544189E-8,A2=5.097390651703E- 8,A3=-3.581097722054E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.										
<i>Comments: Extended=YES</i>													
<b>Acquisition</b>	<b>#</b>											<b>Target</b>	
	1											NONE	
<b>Template</b>	<b>AcqFilter</b>	<b>Primary Channel</b>				<b>Simultaneous Imaging</b>				<b>Imager Subarray</b>		<b>Grating Wheel Direction</b>	
		All MRS				NO				FULL		Allow Auto Reorder	
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>				<b>Optimized For</b>				<b>Direction</b>			
	1	4-Point				POINT SOURCE				NEGATIVE			
<b>Spectral Elements</b>	<b>#</b>	<b>Wavelength Range</b>	<b>Detector</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/E xp</b>	<b>Exposures/Dit h</b>	<b>Dither</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>Optional ETC ID</b>
	1	LONG(C)	MRSLONG		FASTR1	75	1	1	Dither 1	4	4	832.512	
	1	LONG(C)	MRSSHORT		FASTR1	75	1	1	Dither 1	4	4	832.512	

## Proposal 9442 - Observation 6 - MIRI MRS Observations of the Third Interstellar Object

### Special Requirements

Between Dates 01-DEC-2025:00:00:00 and 01-JAN-2026:00:00:00

Sequence Observations 6, 12, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE 3L\_Atlas FROM JWST LESS THAN 0.075

Proposal 9442 - Observation 7 - MIRI MRS Observations of the Third Interstellar Object

Fri Dec 19 00:00:15 GMT 2025

<b>Observation</b>	<b>Proposal 9442, Observation 7: 3I_Atlas_Bkg1A</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [3I_Atlas_visit1A (Obs 1)]												
	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (3I_Atlas_Bkg1A (Obs 7)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
<b>Diagnostics</b>													
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>				<b>Level 2</b>				<b>Level 3</b>		
	(2)	ISO_background	TYPE=COMET,Q=1.356400970215075,E=6.1393295 0109603,I=175.1130875201685 ,O=322.1565555004837,W=128.0099429877499,T=29 -OCT- 2025:11:34:26,TTimeScale=TDB,EQUINOX=J2000,E POCH=02-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=7.677051544189E-8,A2=5.097390651703E- 8,A3=-3.581097722054E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.				TYPE=POS_ANGLE,RAD=300,ANG=90,REF=SUN						
<i>Comments: Extended=NO</i>													
<b>Acquisition</b>	<b>#</b>											<b>Target</b>	
	1											NONE	
<b>Template</b>	<b>AcqFilter</b>	<b>Primary Channel</b>			<b>Simultaneous Imaging</b>			<b>Imager Subarray</b>		<b>Grating Wheel Direction</b>			
		All MRS			NO			FULL		Allow Auto Reorder			
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>				<b>Optimized For</b>				<b>Direction</b>			
	1	2-Point				POINT SOURCE				NEGATIVE			
<b>Spectral Elements</b>	<b>#</b>	<b>Wavelength Range</b>	<b>Detector</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/E xp</b>	<b>Exposures/Dit h</b>	<b>Dither</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>Optional ETC ID</b>
	1	SHORT(A)	MRSLONG		FASTR1	75	1	1	Dither 1	2	2	416.256	
	1	SHORT(A)	MRSSHORT		FASTR1	75	1	1	Dither 1	2	2	416.256	

## Proposal 9442 - Observation 7 - MIRI MRS Observations of the Third Interstellar Object

### Special Requirements

Sequence Observations 1, 7, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE ISO\_background FROM JWST LESS THAN 0.075

Proposal 9442 - Observation 14 - MIRI MRS Observations of the Third Interstellar Object

Fri Dec 19 00:00:15 GMT 2025

<b>Observation</b>	<b>Proposal 9442, Observation 14: 3I_Atlas_Bkg1A</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (3I_Atlas_Bkg1A (Obs 14)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
<b>Diagnosics</b>													
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>				<b>Level 2</b>				<b>Level 3</b>		
	(4)	ISO_background_repeat	TYPE=COMET,Q=1.356418237859906,E=6.1394337 23877776,I=175.1130926962195 ,O=322.1566409267227,W=128.0097228929673,T=29 -OCT- 2025:11:34:18,TimeScale=TDB,EQUINOX=J2000,E POCH=04-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=4.368369102478E-8,A2=1.595561385155E- 8,A3=-5.178292989731E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.				TYPE=POS_ANGLE,RAD=300,ANG=90,REF=SUN						
<i>Comments: Extended=NO</i>													
<b>Acquisition</b>	<b>#</b>											<b>Target</b>	
	1											NONE	
<b>Template</b>	<b>AcqFilter</b>	<b>Primary Channel</b>			<b>Simultaneous Imaging</b>			<b>Imager Subarray</b>			<b>Grating Wheel Direction</b>		
		All MRS			NO			FULL			Allow Auto Reorder		
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>				<b>Optimized For</b>				<b>Direction</b>			
	1	2-Point				EXTENDED SOURCE				NEGATIVE			
<b>Spectral Elements</b>	<b>#</b>	<b>Wavelength Range</b>	<b>Detector</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/E xp</b>	<b>Exposures/Dit h</b>	<b>Dither</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>Optional ETC ID</b>
	1	SHORT(A)	MRSLONG		FASTR1	70	1	1	Dither 1	2	2	388.506	
	1	SHORT(A)	MRSSHORT		FASTR1	70	1	1	Dither 1	2	2	388.506	

Proposal 9442 - Observation 14 - MIRI MRS Observations of the Third Interstellar Object

Special Requirements

DEFAULT WINDOW: ANGULAR RATE ISO\_background\_repeat FROM JWST LESS THAN 0.075

Proposal 9442 - Observation 8 - MIRI MRS Observations of the Third Interstellar Object

Fri Dec 19 00:00:15 GMT 2025

<b>Observation</b>	<b>Proposal 9442, Observation 8: 3I_Atlas_Bkg1B</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [3I_Atlas_visit1B (Obs 2)]												
	(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (3I_Atlas_Bkg1B (Obs 8)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
<b>Diagnosics</b>													
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>				<b>Level 2</b>				<b>Level 3</b>		
	(2)	ISO_background	TYPE=COMET,Q=1.356400970215075,E=6.1393295 0109603,I=175.1130875201685 ,O=322.1565555004837,W=128.0099429877499,T=29 -OCT- 2025:11:34:26,TTimeScale=TDB,EQUINOX=J2000,E POCH=02-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=7.677051544189E-8,A2=5.097390651703E- 8,A3=-3.581097722054E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.				TYPE=POS_ANGLE,RAD=300,ANG=90,REF=SUN						
<i>Comments: Extended=NO</i>													
<b>Acquisition</b>	<b>#</b>											<b>Target</b>	
	1											NONE	
<b>Template</b>	<b>AcqFilter</b>	<b>Primary Channel</b>			<b>Simultaneous Imaging</b>			<b>Imager Subarray</b>		<b>Grating Wheel Direction</b>			
		All MRS			NO			FULL		Allow Auto Reorder			
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>				<b>Optimized For</b>				<b>Direction</b>			
	1	2-Point				POINT SOURCE				NEGATIVE			
<b>Spectral Elements</b>	<b>#</b>	<b>Wavelength Range</b>	<b>Detector</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/E xp</b>	<b>Exposures/Dit h</b>	<b>Dither</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>Optional ETC ID</b>
	1	MEDIUM(B)	MRSLONG		FASTR1	75	1	1	Dither 1	2	2	416.256	
	1	MEDIUM(B)	MRSSHORT		FASTR1	75	1	1	Dither 1	2	2	416.256	

## Proposal 9442 - Observation 8 - MIRI MRS Observations of the Third Interstellar Object

### Special Requirements

Sequence Observations 2, 8, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE ISO\_background FROM JWST LESS THAN 0.075

Proposal 9442 - Observation 9 - MIRI MRS Observations of the Third Interstellar Object

Fri Dec 19 00:00:15 GMT 2025

<b>Observation</b>	<b>Proposal 9442, Observation 9: 3I_Atlas_Bkg1C</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [3I_Atlas_visit1C (Obs 3)]												
	(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (3I_Atlas_Bkg1C (Obs 9)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
<b>Diagnosics</b>													
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>				<b>Level 2</b>				<b>Level 3</b>		
	(2)	ISO_background	TYPE=COMET,Q=1.356400970215075,E=6.1393295 0109603,I=175.1130875201685 ,O=322.1565555004837,W=128.0099429877499,T=29 -OCT- 2025:11:34:26,TTimeScale=TDB,EQUINOX=J2000,E POCH=02-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=7.677051544189E-8,A2=5.097390651703E- 8,A3=-3.581097722054E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.				TYPE=POS_ANGLE,RAD=300,ANG=90,REF=SUN						
<i>Comments: Extended=NO</i>													
<b>Acquisition</b>	<b>#</b>											<b>Target</b>	
	1											NONE	
<b>Template</b>	<b>AcqFilter</b>	<b>Primary Channel</b>			<b>Simultaneous Imaging</b>			<b>Imager Subarray</b>			<b>Grating Wheel Direction</b>		
		All MRS			NO			FULL			Allow Auto Reorder		
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>				<b>Optimized For</b>				<b>Direction</b>			
	1	2-Point				POINT SOURCE				NEGATIVE			
<b>Spectral Elements</b>	<b>#</b>	<b>Wavelength Range</b>	<b>Detector</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/E xp</b>	<b>Exposures/Dit h</b>	<b>Dither</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>Optional ETC ID</b>
	1	LONG(C)	MRSLONG		FASTR1	75	1	1	Dither 1	2	2	416.256	
	1	LONG(C)	MRSSHORT		FASTR1	75	1	1	Dither 1	2	2	416.256	

## Proposal 9442 - Observation 9 - MIRI MRS Observations of the Third Interstellar Object

### Special Requirements

Sequence Observations 3, 9, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE ISO\_background FROM JWST LESS THAN 0.075

Proposal 9442 - Observation 10 - MIRI MRS Observations of the Third Interstellar Object

Fri Dec 19 00:00:15 GMT 2025

<b>Observation</b>	<b>Proposal 9442, Observation 10: 3I_Atlas_Bkg2A</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [3I_Atlas_visit2A (Obs 4)]												
	(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (3I_Atlas_Bkg2A (Obs 10)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
<b>Diagnosics</b>													
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>				<b>Level 2</b>				<b>Level 3</b>		
	(2)	ISO_background	TYPE=COMET,Q=1.356400970215075,E=6.1393295 0109603,I=175.1130875201685 ,O=322.1565555004837,W=128.0099429877499,T=29 -OCT- 2025:11:34:26,TTimeScale=TDB,EQUINOX=J2000,E POCH=02-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=7.677051544189E-8,A2=5.097390651703E- 8,A3=-3.581097722054E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.				TYPE=POS_ANGLE,RAD=300,ANG=90,REF=SUN						
<i>Comments: Extended=NO</i>													
<b>Acquisition</b>	<b>#</b>											<b>Target</b>	
	1											NONE	
<b>Template</b>	<b>AcqFilter</b>	<b>Primary Channel</b>			<b>Simultaneous Imaging</b>			<b>Imager Subarray</b>		<b>Grating Wheel Direction</b>			
		All MRS			NO			FULL		Allow Auto Reorder			
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>				<b>Optimized For</b>				<b>Direction</b>			
	1	2-Point				POINT SOURCE				NEGATIVE			
<b>Spectral Elements</b>	<b>#</b>	<b>Wavelength Range</b>	<b>Detector</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/E xp</b>	<b>Exposures/Dit h</b>	<b>Dither</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>Optional ETC ID</b>
	1	SHORT(A)	MRSLONG		FASTR1	75	1	1	Dither 1	2	2	416.256	
	1	SHORT(A)	MRSSHORT		FASTR1	75	1	1	Dither 1	2	2	416.256	

## Proposal 9442 - Observation 10 - MIRI MRS Observations of the Third Interstellar Object

### Special Requirements

Sequence Observations 4, 10, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE ISO\_background FROM JWST LESS THAN 0.075

Proposal 9442 - Observation 11 - MIRI MRS Observations of the Third Interstellar Object

Fri Dec 19 00:00:15 GMT 2025

<b>Observation</b>	<b>Proposal 9442, Observation 11: 3I_Atlas_Bkg2B</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [3I_Atlas_visit2B (Obs 5)]												
	(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (3I_Atlas_Bkg2B (Obs 11)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
<b>Diagnosics</b>													
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>				<b>Level 2</b>				<b>Level 3</b>		
	(2)	ISO_background	TYPE=COMET,Q=1.356400970215075,E=6.1393295 0109603,I=175.1130875201685 ,O=322.1565555004837,W=128.0099429877499,T=29 -OCT- 2025:11:34:26,TTimeScale=TDB,EQUINOX=J2000,E POCH=02-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=7.677051544189E-8,A2=5.097390651703E- 8,A3=-3.581097722054E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.				TYPE=POS_ANGLE,RAD=300,ANG=90,REF=SUN						
<i>Comments: Extended=NO</i>													
<b>Acquisition</b>	<b>#</b>											<b>Target</b>	
	1											NONE	
<b>Template</b>	<b>AcqFilter</b>	<b>Primary Channel</b>			<b>Simultaneous Imaging</b>			<b>Imager Subarray</b>		<b>Grating Wheel Direction</b>			
		All MRS			NO			FULL		Allow Auto Reorder			
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>				<b>Optimized For</b>				<b>Direction</b>			
	1	2-Point				POINT SOURCE				NEGATIVE			
<b>Spectral Elements</b>	<b>#</b>	<b>Wavelength Range</b>	<b>Detector</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/E xp</b>	<b>Exposures/Dit h</b>	<b>Dither</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>Optional ETC ID</b>
	1	MEDIUM(B)	MRSLONG		FASTR1	75	1	1	Dither 1	2	2	416.256	
	1	MEDIUM(B)	MRSSHORT		FASTR1	75	1	1	Dither 1	2	2	416.256	

## Proposal 9442 - Observation 11 - MIRI MRS Observations of the Third Interstellar Object

### Special Requirements

Sequence Observations 5, 11, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE ISO\_background FROM JWST LESS THAN 0.075

Proposal 9442 - Observation 16 - MIRI MRS Observations of the Third Interstellar Object

Fri Dec 19 00:00:15 GMT 2025

<b>Observation</b>	<b>Proposal 9442, Observation 16: 3I_Atlas_Bkg2B</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (3I_Atlas_Bkg2B (Obs 16)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
<b>Diagnosics</b>													
<b>Solar System Targets</b>	#	Name	Level 1				Level 2				Level 3		
	(4)	ISO_background_repeat	TYPE=COMET,Q=1.356418237859906,E=6.1394337 23877776,I=175.1130926962195 ,O=322.1566409267227,W=128.0097228929673,T=29 -OCT- 2025:11:34:18,TTIME=J2000,E POCH=04-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=4.368369102478E-8,A2=1.595561385155E- 8,A3=-5.178292989731E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.				TYPE=POS_ANGLE,RAD=300,ANG=90,REF=SUN						
<i>Comments: Extended=NO</i>													
<b>Acquisition</b>	#											Target	
	1											NONE	
<b>Template</b>	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction		
		All MRS			NO			FULL			Allow Auto Reorder		
<b>Dithers</b>	#	Dither Type				Optimized For				Direction			
	1	2-Point				EXTENDED SOURCE				NEGATIVE			
<b>Spectral Elements</b>	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
	1	MEDIUM(B)	MRSLONG		FASTR1	70	1	1	Dither 1	2	2	388.506	
	1	MEDIUM(B)	MRSSHORT		FASTR1	70	1	1	Dither 1	2	2	388.506	

Proposal 9442 - Observation 16 - MIRI MRS Observations of the Third Interstellar Object

Special Requirements

DEFAULT WINDOW: ANGULAR RATE ISO\_background\_repeat FROM JWST LESS THAN 0.075

Proposal 9442 - Observation 12 - MIRI MRS Observations of the Third Interstellar Object

Fri Dec 19 00:00:15 GMT 2025

<b>Observation</b>	<b>Proposal 9442, Observation 12: 3I_Atlas_Bkg2C</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [3I_Atlas_visit2C (Obs 6)]												
	(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (3I_Atlas_Bkg2C (Obs 12)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
<b>Diagnosics</b>													
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>				<b>Level 2</b>				<b>Level 3</b>		
	(2)	ISO_background	TYPE=COMET,Q=1.356400970215075,E=6.1393295 0109603,I=175.1130875201685 ,O=322.1565555004837,W=128.0099429877499,T=29 -OCT- 2025:11:34:26,TTimeScale=TDB,EQUINOX=J2000,E POCH=02-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=7.677051544189E-8,A2=5.097390651703E- 8,A3=-3.581097722054E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.				TYPE=POS_ANGLE,RAD=300,ANG=90,REF=SUN						
<i>Comments: Extended=NO</i>													
<b>Acquisition</b>	<b>#</b>											<b>Target</b>	
	1											NONE	
<b>Template</b>	<b>AcqFilter</b>	<b>Primary Channel</b>			<b>Simultaneous Imaging</b>			<b>Imager Subarray</b>			<b>Grating Wheel Direction</b>		
		All MRS			NO			FULL			Allow Auto Reorder		
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>				<b>Optimized For</b>				<b>Direction</b>			
	1	2-Point				POINT SOURCE				NEGATIVE			
<b>Spectral Elements</b>	<b>#</b>	<b>Wavelength Range</b>	<b>Detector</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/E xp</b>	<b>Exposures/Dit h</b>	<b>Dither</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>Optional ETC ID</b>
	1	LONG(C)	MRSLONG		FASTR1	75	1	1	Dither 1	2	2	416.256	
	1	LONG(C)	MRSSHORT		FASTR1	75	1	1	Dither 1	2	2	416.256	

## Proposal 9442 - Observation 12 - MIRI MRS Observations of the Third Interstellar Object

### Special Requirements

Sequence Observations 6, 12, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE ISO\_background FROM JWST LESS THAN 0.075