



4028 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Cycle: 2, Proposal Category: GO

INVESTIGATORS

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Shannon MacKenzie (CoI)	The Johns Hopkins University Applied Physics Laboratory
Dr. Joshua P Emery (CoI)	Northern Arizona University

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Himalia				
	16	Himalia MIRI	MIRI Low Resolution Spectroscopy	(1) HIMALIA
	1	Himalia NIRSpec	NIRSpec IFU Spectroscopy	(1) HIMALIA
Themisto				
	2	Themisto NIRSpec	NIRSpec IFU Spectroscopy	(2) THEMISTO
	3	Themisto MIRI	MIRI Low Resolution Spectroscopy	(2) THEMISTO
Ananke				
	4	Ananke NIRSpec	NIRSpec IFU Spectroscopy	(3) ANANKE
	5	Ananke MIRI	MIRI Low Resolution Spectroscopy	(3) ANANKE
Pasiphae				
	6	Pasiphae NIRSpec	NIRSpec IFU Spectroscopy	(4) PASIPHAE
	7	Pasiphae MIRI	MIRI Low Resolution Spectroscopy	(4) PASIPHAE

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Carme				
	8	Carme NIRSpec	NIRSpec IFU Spectroscopy	(5) CARME
	9	Carme MIRI	MIRI Low Resolution Spectroscopy	(5) CARME
Lysithea				
	10	Lysithea NIRSpec	NIRSpec IFU Spectroscopy	(6) LYSITHEA
	11	Lysithea MIRI	MIRI Low Resolution Spectroscopy	(6) LYSITHEA
Sinope				
	12	Sinope NIRSpec	NIRSpec IFU Spectroscopy	(7) SINOPE
	13	Sinope MIRI	MIRI Low Resolution Spectroscopy	(7) SINOPE
Elara				
	14	Elara NIRSpec	NIRSpec IFU Spectroscopy	(8) ELARA
	15	Elara MIRI	MIRI Low Resolution Spectroscopy	(8) ELARA

ABSTRACT

We propose NIRSpec IFU and MIRI LRS observations of eight of Jupiter’s irregular satellites. These satellites are thought to be captured during planetary migration from regions beyond Jupiter’s formation location, but poor understanding of their compositions limits understanding of their origins. Our proposed spectroscopic observations will test a key prediction of planetary migration models: that Jovian irregular satellites were sourced from the same parent population as Jovian Trojans and dark, organic-rich main belt asteroids. By acquiring spectroscopic measurements of Jovian irregular satellites, this program will determine whether their compositions are consistent with this shared-capture scenario. This data set will also test whether material ejected from irregular satellite collisions is implanted onto the Galilean satellites, constraining a possible key source of organic-rich material within the Jovian system.

OBSERVING DESCRIPTION

The proposed observations target 8 of the irregular satellites of Jupiter, orbiting beyond Callisto. We propose the use of the NIRSpec instrument in its IFU Prism mode and MIRI LRS measurements for each object. As Solar System objects, they all vary in brightness by roughly 0.4 magnitudes over the course of Cycle 2 as their viewing geometry changes. The exposure times included in this proposal assume these objects are observed at their faintest. We note that all objects are more than 600 arcseconds from the limb of Jupiter at all times during Cycle 2 when they are within the JWST field of regard, except for Sinope. For comparison, we note that Callisto reaches a maximum of 595 arcseconds from Jupiter's limb and Europa reaches a maximum of 200 arcseconds from Jupiter's limb. Sinope is less than 200 arcseconds from Jupiter's limb for a total of 6 days, all in the first observing window of Cycle 2, and has a period of roughly 20 days in that window when it is closer than 600 arcseconds. We have not added any

JWST Proposal 4028 (Created: Monday, January 22, 2024 at 7:00:54 PM Eastern Standard Time) - Overview

additional timing constraints for Sinope. The groups, integration time, etc. are all designed to return $\text{SNR} > 100$ near 4 micrometers with NIRSpec and with MIRI near 6 micrometers for all objects except Themisto, for which we target $\text{SNR} = 100$ near 3 micrometers and $\text{SNR} \sim 200$ near 10 micrometers.

Proposal 4028 - Targets - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Solar System Targets	#	Name	Level 1	Level 2	Level 3
	(1)	HIMALIA	STD=JUPITER	STD=HIMALIA	
	<i>Comments: Extended=NO</i>				
	(2)	THEMISTO	STD=JUPITER	STD=THEMISTO	
	<i>Comments: Extended=NO</i>				
	(3)	ANANKE	STD=JUPITER	STD=ANANKE	
	<i>Comments: Extended=NO</i>				
	(4)	PASIPHAE	STD=JUPITER	STD=PASIPHAE	
	<i>Comments: Extended=NO</i>				
(5)	CARME	STD=JUPITER	STD=CARME		
<i>Comments: Extended=NO</i>					
(6)	LYSITHEA	STD=JUPITER	STD=LYSITHEA		
<i>Comments: Extended=NO</i>					
(7)	SINOPE	STD=JUPITER	STD=SINOPE		
<i>Comments: Extended=NO</i>					
(8)	ELARA	STD=JUPITER	STD=ELARA		
<i>Comments: Extended=NO</i>					

Proposal 4028 - Observation 16 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Tue Jan 23 00:00:54 GMT 2024

Observation	Proposal 4028, Observation 16: Himalia MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy									
Diagnostics	(Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Himalia MIRI (Obs 16)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Solar System Targets	#	Name	Level 1	Level 2	Level 3					
	(1)	HIMALIA	STD=JUPITER	STD=HIMALIA						
	Comments: Extended=NO									
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	SAME	F1500W	FAST	4	1	1	11.1	143194	
Template	Subarray				Obtain Verification Image?					
	FULL				true					
Dithers	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset				
	1	ALONG SLIT NOD								
Pointing Verification	#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	PV ETC Wkbk.Calc ID	Filter
	1	FASTR1	5	1	1	1	1	13.875		F1500W

Proposal 4028 - Observation 16 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	6	1	2	1	2	33.3	143194
Special Requirements	Between Dates 01-JUL-2023 and 30-JUN-2024								
	DEFAULT WINDOW: NOT OCCULTATION OF HIMALIA BY JUPITER FROM JWST DEFAULT WINDOW: SEPARATION OF HIMALIA IO FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF HIMALIA EUROPA FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF HIMALIA GANYMEDE FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF HIMALIA CALLISTO FROM JWST GREATER THAN 10" DEFAULT WINDOW: ANGULAR RATE HIMALIA FROM JWST LESS THAN 0.075								

Proposal 4028 - Observation 1 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Tue Jan 23 00:00:54 GMT 2024

Observation	<p>Proposal 4028, Observation 1: Himalia NIRSpec</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p>											
Diagnostics	<p>(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Himalia NIRSpec (Obs 1)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>											
Solar System Targets	#	Name	Level 1				Level 2			Level 3		
	(1)	HIMALIA	STD=JUPITER				STD=HIMALIA					
	<i>Comments: Extended=NO</i>											
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size		Starting Point		Number of Points		Points		
	1	4-POINT-DITHER										
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395M/F290LP	NRSIRS2RAPI D	6	1	false	true	NONE	4	4	408.489	
	2	G235M/F170LP	NRSIRS2RAPI D	6	1	false	true	NONE	4	4	408.489	
Special Requirements	<p>Between Dates 01-JUL-2023 and 30-JUN-2024</p> <p>Aperture PA Range 206 to 213 Degrees (V3 67.02835083 to 74.02835083)</p> <p>DEFAULT WINDOW: NOT OCCULTATION OF HIMALIA BY JUPITER FROM JWST</p> <p>DEFAULT WINDOW: SEPARATION OF HIMALIA IO FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF HIMALIA EUROPA FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF HIMALIA GANYMEDE FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF HIMALIA CALLISTO FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: ANGULAR RATE HIMALIA FROM JWST LESS THAN 0.075</p>											

Proposal 4028 - Observation 2 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Tue Jan 23 00:00:54 GMT 2024

Observation	<p>Proposal 4028, Observation 2: Themisto NIRSpec</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p>											
Diagnostics	<p>(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Themisto NIRSpec (Obs 2)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>											
Solar System Targets	#	Name	Level 1			Level 2			Level 3			
	(2)	THEMISTO	STD=JUPITER			STD=THEMISTO						
	<i>Comments: Extended=NO</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	SAME	WATA	FULL	CLEAR	NRSRAPID	3	1	1	42.947	143194	
Dithers	#	Dither Type		Size	Starting Point			Number of Points		Points		
	1	4-POINT-DITHER										
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	NRSIRS2RAPID	73	1	false	true	NONE	4	4	4318.311	
Special Requirements	<p>Between Dates 01-JUL-2023 and 30-JUN-2024</p> <p>Aperture PA Range 206.5 to 213 Degrees (V3 67.52835083 to 74.02835083)</p> <p>DEFAULT WINDOW: NOT OCCULTATION OF THEMISTO BY JUPITER FROM JWST</p> <p>DEFAULT WINDOW: SEPARATION OF THEMISTO IO FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF THEMISTO EUROPA FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF THEMISTO GANYMEDE FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF THEMISTO CALLISTO FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: ANGULAR RATE THEMISTO FROM JWST LESS THAN 0.075</p>											

Proposal 4028 - Observation 3 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Tue Jan 23 00:00:54 GMT 2024

Observation	Proposal 4028, Observation 3: Themisto MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy																												
	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Themisto MIRI (Obs 3)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																												
Solar System Targets	<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>(2)</td> <td>THEMISTO</td> <td>STD=JUPITER</td> <td>STD=THEMISTO</td> <td></td> </tr> </tbody> </table> Comments: Extended=NO	#	Name	Level 1	Level 2	Level 3	(2)	THEMISTO	STD=JUPITER	STD=THEMISTO																			
	#	Name	Level 1	Level 2	Level 3																								
(2)	THEMISTO	STD=JUPITER	STD=THEMISTO																										
Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>F1500W</td> <td>FAST</td> <td>4</td> <td>1</td> <td>1</td> <td>11.1</td> <td>143194</td> </tr> </tbody> </table>	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	SAME	F1500W	FAST	4	1	1	11.1	143194										
	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																				
1	SAME	F1500W	FAST	4	1	1	11.1	143194																					
Template	Subarray				Obtain Verification Image?																								
	FULL				true																								
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>No. Spectral Steps</th> <th>Spectral Step Offset</th> <th>No. Spatial Steps</th> <th>Spatial Step Offset</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ALONG SLIT NOD</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset	1	ALONG SLIT NOD																				
	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset																							
1	ALONG SLIT NOD																												
Pointing Verification	<table border="1"> <thead> <tr> <th>#</th> <th>PV Readout Pattern</th> <th>PV Groups/Int</th> <th>PV Integrations/Exp</th> <th>PV Total Integrations</th> <th>PV Exposures/Dith</th> <th>PV Total Dithers</th> <th>PV Total Exposure Time</th> <th>PV ETC Wkbk.Calc ID</th> <th>Filter</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>FASTR1</td> <td>5</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>13.875</td> <td></td> <td>F1500W</td> </tr> </tbody> </table>	#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	PV ETC Wkbk.Calc ID	Filter	1	FASTR1	5	1	1	1	1	13.875		F1500W								
	#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	PV ETC Wkbk.Calc ID	Filter																			
1	FASTR1	5	1	1	1	1	13.875		F1500W																				

Proposal 4028 - Observation 3 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	Special Requirements	1	FASTR1	107	3	6	1	2	1792.676
	<p>Between Dates 01-JUL-2023 and 30-JUN-2024</p> <p>DEFAULT WINDOW: NOT OCCULTATION OF THEMISTO BY JUPITER FROM JWST DEFAULT WINDOW: SEPARATION OF THEMISTO IO FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF THEMISTO EUROPA FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF THEMISTO GANYMEDE FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF THEMISTO CALLISTO FROM JWST GREATER THAN 10" DEFAULT WINDOW: ANGULAR RATE THEMISTO FROM JWST LESS THAN 0.075</p>								

Proposal 4028 - Observation 4 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Tue Jan 23 00:00:54 GMT 2024

Observation	<p>Proposal 4028, Observation 4: Ananke NIRSpec</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p>											
Diagnostics	<p>(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Ananke NIRSpec (Obs 4)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>											
Solar System Targets	#	Name	Level 1			Level 2			Level 3			
	(3)	ANANKE	STD=JUPITER			STD=ANANKE						
	<i>Comments: Extended=NO</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	SAME	WATA	FULL	CLEAR	NRSRAPID	3	1	1	42.947	143194	
Dithers	#	Dither Type		Size	Starting Point			Number of Points		Points		
	1	4-POINT-DITHER										
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	NRSIRS2RAPID	37	1	false	true	NONE	4	4	2217.511	
Special Requirements	<p>Between Dates 01-JUL-2023 and 30-JUN-2024</p> <p>Aperture PA Range 206 to 213 Degrees (V3 67.02835083 to 74.02835083)</p> <p>DEFAULT WINDOW: NOT OCCULTATION OF ANANKE BY JUPITER FROM JWST</p> <p>DEFAULT WINDOW: SEPARATION OF ANANKE IO FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF ANANKE EUROPA FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF ANANKE GANYMEDE FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF ANANKE CALLISTO FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: ANGULAR RATE ANANKE FROM JWST LESS THAN 0.075</p>											

Proposal 4028 - Observation 5 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Tue Jan 23 00:00:54 GMT 2024

Observation	Proposal 4028, Observation 5: Ananke MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy										
	(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Ananke MIRI (Obs 5)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.										
Diagnosics											
Solar System Targets	#	Name	Level 1	Level 2	Level 3						
	(3)	ANANKE	STD=JUPITER	STD=ANANKE							
<i>Comments: Extended=NO</i>											
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID		
	1	SAME	FND	FAST	4	1	1	11.1	143194		
Template	Subarray				Obtain Verification Image?						
	FULL				true						
Dithers	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset					
	1	ALONG SLIT NOD									
Pointing Verification	#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	PV ETC Wkbk.Calc ID	Filter	
	1	FASTR1	5	1	1	1	1	13.875		FND	

Proposal 4028 - Observation 5 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	90	1	2	1	2	499.507	143194
Special Requirements	<p>Between Dates 01-JUL-2023 and 30-JUN-2024</p> <p>DEFAULT WINDOW: NOT OCCULTATION OF ANANKE BY JUPITER FROM JWST</p> <p>DEFAULT WINDOW: SEPARATION OF ANANKE IO FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF ANANKE EUROPA FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF ANANKE GANYMEDE FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF ANANKE CALLISTO FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: ANGULAR RATE ANANKE FROM JWST LESS THAN 0.075</p>								

Proposal 4028 - Observation 6 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Tue Jan 23 00:00:54 GMT 2024

Observation	Proposal 4028, Observation 6: Pasiphae NIRSpec Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy											
	(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Pasiphae NIRSpec (Obs 6)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.											
Solar System Targets	#	Name	Level 1			Level 2			Level 3			
	(4)	PASIPHAE	STD=JUPITER			STD=PASIPHAE						
<i>Comments: Extended=NO</i>												
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	SAME	WATA	FULL	CLEAR	NRSRAPID	3	1	1	42.947	143194	
Dithers	#	Dither Type		Size	Starting Point			Number of Points		Points		
	1	4-POINT-DITHER										
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	NRSIRS2RAPID	5	1	false	true	NONE	4	4	350.133	
Special Requirements	Between Dates 01-JUL-2023 and 30-JUN-2024 Aperture PA Range 206 to 212 Degrees (V3 67.02835083 to 73.02835083)											
	DEFAULT WINDOW: NOT OCCULTATION OF PASIPHAE BY JUPITER FROM JWST DEFAULT WINDOW: SEPARATION OF PASIPHAE IO FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF PASIPHAE EUROPA FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF PASIPHAE GANYMEDE FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF PASIPHAE CALLISTO FROM JWST GREATER THAN 10" DEFAULT WINDOW: ANGULAR RATE PASIPHAE FROM JWST LESS THAN 0.075											

Proposal 4028 - Observation 7 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Tue Jan 23 00:00:54 GMT 2024

Observation	Proposal 4028, Observation 7: Pasiphae MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy																												
	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Pasiphae MIRI (Obs 7)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																												
Solar System Targets	<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>(4)</td> <td>PASIPHAE</td> <td>STD=JUPITER</td> <td>STD=PASIPHAE</td> <td></td> </tr> </tbody> </table>	#	Name	Level 1	Level 2	Level 3	(4)	PASIPHAE	STD=JUPITER	STD=PASIPHAE		<i>Comments: Extended=NO</i>																	
	#	Name	Level 1	Level 2	Level 3																								
(4)	PASIPHAE	STD=JUPITER	STD=PASIPHAE																										
Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>F1500W</td> <td>FAST</td> <td>4</td> <td>1</td> <td>1</td> <td>11.1</td> <td>143194</td> </tr> </tbody> </table>	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	SAME	F1500W	FAST	4	1	1	11.1	143194										
	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																				
1	SAME	F1500W	FAST	4	1	1	11.1	143194																					
Template	Subarray				Obtain Verification Image?																								
	FULL				true																								
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>No. Spectral Steps</th> <th>Spectral Step Offset</th> <th>No. Spatial Steps</th> <th>Spatial Step Offset</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ALONG SLIT NOD</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset	1	ALONG SLIT NOD																				
	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset																							
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Pointing Verification	<table border="1"> <thead> <tr> <th>#</th> <th>PV Readout Pattern</th> <th>PV Groups/Int</th> <th>PV Integrations/Exp</th> <th>PV Total Integrations</th> <th>PV Exposures/Dith</th> <th>PV Total Dithers</th> <th>PV Total Exposure Time</th> <th>PV ETC Wkbk.Calc ID</th> <th>Filter</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>FASTR1</td> <td>5</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>13.875</td> <td></td> <td>F1500W</td> </tr> </tbody> </table>	#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	PV ETC Wkbk.Calc ID	Filter	1	FASTR1	5	1	1	1	1	13.875		F1500W								
	#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	PV ETC Wkbk.Calc ID	Filter																			
1	FASTR1	5	1	1	1	1	13.875		F1500W																				

Proposal 4028 - Observation 7 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	Special Requirements	1	FASTR1	20	1	2	1	2	111.002
<p>Between Dates 01-JUL-2023 and 30-JUN-2024</p> <p>DEFAULT WINDOW: NOT OCCULTATION OF PASIPHAЕ BY JUPITER FROM JWST DEFAULT WINDOW: SEPARATION OF PASIPHAЕ IO FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF PASIPHAЕ EUROPA FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF PASIPHAЕ GANYMEDE FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF PASIPHAЕ CALLISTO FROM JWST GREATER THAN 10" DEFAULT WINDOW: ANGULAR RATE PASIPHAЕ FROM JWST LESS THAN 0.075</p>									

Proposal 4028 - Observation 8 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Tue Jan 23 00:00:54 GMT 2024

Observation	<p>Proposal 4028, Observation 8: Carme NIRSpec</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p>											
Diagnostics	<p>(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Carme NIRSpec (Obs 8)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>											
Solar System Targets	#	Name	Level 1			Level 2			Level 3			
	(5)	CARME	STD=JUPITER			STD=CARME						
	<i>Comments: Extended=NO</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	SAME	WATA	FULL	CLEAR	NRSRAPID	3	1	1	42.947	143194	
Dithers	#	Dither Type		Size	Starting Point			Number of Points	Points			
	1	4-POINT-DITHER										
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	NRSIRS2RAPID	18	1	false	true	NONE	4	4	1108.756	
Special Requirements	<p>Between Dates 01-JUL-2023 and 30-JUN-2024</p> <p>Aperture PA Range 206 to 213 Degrees (V3 67.02835083 to 74.02835083)</p> <p>DEFAULT WINDOW: NOT OCCULTATION OF CARME BY JUPITER FROM JWST</p> <p>DEFAULT WINDOW: SEPARATION OF CARME IO FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF CARME EUROPA FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF CARME GANYMEDE FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF CARME CALLISTO FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: ANGULAR RATE CARME FROM JWST LESS THAN 0.075</p>											

Proposal 4028 - Observation 9 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Tue Jan 23 00:00:54 GMT 2024

Observation	Proposal 4028, Observation 9: Carme MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy										
	(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Carme MIRI (Obs 9)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.										
Diagnosics											
Solar System Targets	#	Name	Level 1	Level 2	Level 3						
	(5)	CARME	STD=JUPITER	STD=CARME							
<i>Comments: Extended=NO</i>											
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID		
	1	SAME	F1500W	FAST	4	1	1	11.1	143194		
Template	Subarray				Obtain Verification Image?						
	FULL				true						
Dithers	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset					
	1	ALONG SLIT NOD									
Pointing Verification	#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	PV ETC Wkbk.Calc ID	Filter	
	1	FASTR1	5	1	1	1	1	13.875		F1500W	

Proposal 4028 - Observation 9 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	50	1	2	1	2	277.504	143194
Special Requirements	<p>Between Dates 01-JUL-2023 and 30-JUN-2024</p> <p>DEFAULT WINDOW: NOT OCCULTATION OF CARME BY JUPITER FROM JWST</p> <p>DEFAULT WINDOW: SEPARATION OF CARME IO FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF CARME EUROPA FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF CARME GANYMEDE FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF CARME CALLISTO FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: ANGULAR RATE CARME FROM JWST LESS THAN 0.075</p>								

Proposal 4028 - Observation 10 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Tue Jan 23 00:00:54 GMT 2024

Observation	Proposal 4028, Observation 10: Lysithea NIRSpec Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy											
Diagnostics	(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Lysithea NIRSpec (Obs 10)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.											
Solar System Targets	#	Name	Level 1			Level 2			Level 3			
	(6)	LYSITHEA	STD=JUPITER			STD=LYSITHEA						
	<i>Comments: Extended=NO</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	SAME	WATA	FULL	CLEAR	NRSRAPID	3	1	1	42.947	143194	
Dithers	#	Dither Type		Size	Starting Point			Number of Points		Points		
	1	4-POINT-DITHER										
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	NRSIRS2RAPID	18	1	false	true	NONE	4	4	1108.756	
Special Requirements	Between Dates 01-JUL-2023 and 30-JUN-2024 Aperture PA Range 206 to 213 Degrees (V3 67.02835083 to 74.02835083) DEFAULT WINDOW: NOT OCCULTATION OF LYSITHEA BY JUPITER FROM JWST DEFAULT WINDOW: SEPARATION OF LYSITHEA IO FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF LYSITHEA EUROPA FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF LYSITHEA GANYMEDE FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF LYSITHEA CALLISTO FROM JWST GREATER THAN 10" DEFAULT WINDOW: ANGULAR RATE LYSITHEA FROM JWST LESS THAN 0.075											

Proposal 4028 - Observation 11 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Tue Jan 23 00:00:54 GMT 2024

Observation	Proposal 4028, Observation 11: Lysithea MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy										
	(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Lysithea MIRI (Obs 11)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.										
Diagnosics											
Solar System Targets	#	Name	Level 1	Level 2	Level 3						
	(6)	LYSITHEA	STD=JUPITER	STD=LYSITHEA							
<i>Comments: Extended=NO</i>											
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID		
	1	SAME	F1500W	FAST	4	1	1	11.1	143194		
Template	Subarray				Obtain Verification Image?						
	FULL				true						
Dithers	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset					
	1	ALONG SLIT NOD									
Pointing Verification	#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	PV ETC Wkbk.Calc ID	Filter	
	1	FASTR1	5	1	1	1	1	13.875		F1500W	

Proposal 4028 - Observation 11 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	50	1	2	1	2	277.504	143194
Special Requirements	<p>Between Dates 01-JUL-2023 and 30-JUN-2024</p> <p>DEFAULT WINDOW: NOT OCCULTATION OF LYSITHEA BY JUPITER FROM JWST</p> <p>DEFAULT WINDOW: SEPARATION OF LYSITHEA IO FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF LYSITHEA EUROPA FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF LYSITHEA GANYMEDE FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF LYSITHEA CALLISTO FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: ANGULAR RATE LYSITHEA FROM JWST LESS THAN 0.075</p>								

Proposal 4028 - Observation 12 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Tue Jan 23 00:00:54 GMT 2024

Observation	<p>Proposal 4028, Observation 12: Sinope NIRSpec</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p>											
Diagnostics	<p>(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Sinope NIRSpec (Obs 12)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>											
Solar System Targets	#	Name	Level 1			Level 2			Level 3			
	(7)	SINOPE	STD=JUPITER			STD=SINOPE						
	<i>Comments: Extended=NO</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	SAME	WATA	FULL	CLEAR	NRSRAPID	3	1	1	42.947	143194	
Dithers	#	Dither Type		Size	Starting Point			Number of Points		Points		
	1	4-POINT-DITHER										
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	NRSIRS2RAPID	18	1	false	true	NONE	4	4	1108.756	
Special Requirements	<p>Between Dates 01-JUL-2023 and 30-JUN-2024</p> <p>Aperture PA Range 206 to 212 Degrees (V3 67.02835083 to 73.02835083)</p> <p>DEFAULT WINDOW: NOT OCCULTATION OF SINOPE BY JUPITER FROM JWST</p> <p>DEFAULT WINDOW: SEPARATION OF SINOPE IO FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF SINOPE EUROPA FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF SINOPE GANYMEDE FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF SINOPE CALLISTO FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: ANGULAR RATE SINOPE FROM JWST LESS THAN 0.075</p>											

Proposal 4028 - Observation 13 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Tue Jan 23 00:00:54 GMT 2024

Observation	Proposal 4028, Observation 13: Sinope MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy									
Diagnostics	(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Sinope MIRI (Obs 13)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Solar System Targets	#	Name	Level 1	Level 2	Level 3					
	(7)	SINOPE	STD=JUPITER	STD=SINOPE						
	Comments: Extended=NO									
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	SAME	F1500W	FAST	4	1	1	11.1	143194	
Template	Subarray				Obtain Verification Image?					
	FULL				true					
Dithers	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset				
	1	ALONG SLIT NOD								
Pointing Verification	#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	PV ETC Wkbk.Calc ID	Filter
	1	FASTR1	5	1	1	1	1	13.875		F1500W

Proposal 4028 - Observation 13 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	50	1	2	1	2	277.504	143194
Special Requirements	<p>Between Dates 01-JUL-2023 and 30-JUN-2024</p> <p>DEFAULT WINDOW: NOT OCCULTATION OF SINOPE BY JUPITER FROM JWST</p> <p>DEFAULT WINDOW: SEPARATION OF SINOPE IO FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF SINOPE EUROPA FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF SINOPE GANYMEDE FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF SINOPE CALLISTO FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: ANGULAR RATE SINOPE FROM JWST LESS THAN 0.075</p>								

Proposal 4028 - Observation 14 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Tue Jan 23 00:00:54 GMT 2024

Observation	Proposal 4028, Observation 14: Elara NIRSpec Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy											
Diagnostics	(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Elara NIRSpec (Obs 14)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.											
Solar System Targets	#	Name	Level 1			Level 2			Level 3			
	(8)	ELARA	STD=JUPITER			STD=ELARA						
	<i>Comments: Extended=NO</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	SAME	WATA	FULL	CLEAR	NRSRAPID	3	1	1	42.947	143194	
Dithers	#	Dither Type		Size	Starting Point			Number of Points	Points			
	1	4-POINT-DITHER										
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	NRSIRS2RAPID	5	1	false	true	NONE	4	4	350.133	
Special Requirements	Between Dates 01-JUL-2023 and 30-JUN-2024 Aperture PA Range 206 to 213 Degrees (V3 67.02835083 to 74.02835083) DEFAULT WINDOW: NOT OCCULTATION OF ELARA BY JUPITER FROM JWST DEFAULT WINDOW: SEPARATION OF ELARA IO FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF ELARA EUROPA FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF ELARA GANYMEDE FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF ELARA CALLISTO FROM JWST GREATER THAN 10" DEFAULT WINDOW: ANGULAR RATE ELARA FROM JWST LESS THAN 0.075											

Proposal 4028 - Observation 15 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Tue Jan 23 00:00:54 GMT 2024

Observation	Proposal 4028, Observation 15: Elara MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy										
	(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Elara MIRI (Obs 15)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.										
Solar System Targets	#	Name	Level 1	Level 2	Level 3						
	(8)	ELARA	STD=JUPITER	STD=ELARA							
<i>Comments: Extended=NO</i>											
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID		
	1	SAME	F1500W	FAST	4	1	1	11.1	143194		
Template	Subarray				Obtain Verification Image?						
	FULL				true						
Dithers	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset					
	1	ALONG SLIT NOD									
Pointing Verification	#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	PV ETC Wkbk.Calc ID	Filter	
	1	FASTR1	5	1	1	1	1	13.875		F1500W	

Proposal 4028 - Observation 15 - Deciphering Jupiter's Irregular Satellites: A Critical Test of Giant Planet Migration

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	Special Requirements	1	FASTR1	20	1	2	1	2	111.002
	<p>Between Dates 01-JUL-2023 and 30-JUN-2024</p> <p>DEFAULT WINDOW: NOT OCCULTATION OF ELARA BY JUPITER FROM JWST</p> <p>DEFAULT WINDOW: SEPARATION OF ELARA IO FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF ELARA EUROPA FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF ELARA GANYMEDE FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: SEPARATION OF ELARA CALLISTO FROM JWST GREATER THAN 10"</p> <p>DEFAULT WINDOW: ANGULAR RATE ELARA FROM JWST LESS THAN 0.075</p>								