



6064 - Constraining the dynamical evolution of the outer solar system with trans-Neptunian binaries

Cycle: 3, Proposal Category: GO

INVESTIGATORS

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OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1	Quaoar	NIRCam Imaging	(1) Quaoar
	2	MANWE	NIRCam Imaging	(2) Manwe
	3	ORCUS	NIRCam Imaging	(3) Orcus
	4	2006BR284	NIRCam Imaging	(4) 2006BR284

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
5		LEMPO	NIRCam Imaging	(5) Lempo
6		TEHARONHIAWAKO	NIRCam Imaging	(6) Teharonhiawako
7		2003QY90	NIRCam Imaging	(7) 2003QY90
8		2004PB108	NIRCam Imaging	(8) 2004PB108
9		ERIS	NIRCam Imaging	(9) Eris
11		ERIS	NIRCam Imaging	(9) Eris
10		ALTJIRA	NIRCam Imaging	(10) ALTJIRA
12		ALTJIRA-UPDT	NIRCam Imaging	(10) ALTJIRA

ABSTRACT

Trans-Neptunian objects (TNOs) are icy remnants of the planetary formation that orbit the Sun in the region beyond Neptune. We propose to resolve a sample of 10 trans-Neptunian binaries (TNBs) of similar and different sizes with tight and wide separations using three sets of NIRCAM filters. The combination of the physical and the compositional properties of the binary systems in our sample could constrain the formation scenario cases due to impact, or streaming instability in the early trans-Neptunian region. One portion of our sample is not explained by the current binary formation models since they have similar size (that could be compatible with the streaming instability) but tight separation (as the satellites of the larger TNOs, that could have been formed by impacts). The characterization of the surface composition of both components is crucial to address that matter. Due to their spatial separation, NIRSpect is not suitable for this task. Through the combination of the short and long filters of NIRCAM with the compositional map of the trans-Neptunian region done in the first cycle of JWST, this proposal has potential to constrain proposed formation models and provide an initial input for the expansion of dynamic and evolution theories for some TNBs.

OBSERVING DESCRIPTION

This is an imaging program using NIRCAM simultaneously in 3 pairs of filters: (1) F070W (short) & F250M (long), (2) F115W (short) & F360M (long), and (3) F210M (short) & F300W (long) to obtain colors and spectrophotometric measurements of X trans-Neptunian binaries aimed to add compositional constraints on the formation scenarios of trans-Neptunian binaries. Integrations are calculated such that S/N is 30 for each object in the long bandpass.

Proposal 6064 - Targets - Constraining the dynamical evolution of the outer solar system with trans-Neptunian binaries

#	Name	Level 1	Level 2	Level 3
(1)	Quaoar	TYPE=ASTEROID,A=43.35621062592979,E=0.0399 3647193741599,I=7.9912917217563 .O=189.0992394650243,W=158.6070723684032,M=2 93.8106399929501,EQUINOX=J2000,EPOCH=25- MAY-2023:00:00:00,EpochTimeScale=TDB		
<i>Comments: Extended=NO</i>				
(2)	Manwe	TYPE=ASTEROID,A=43.92028541443305,E=0.1109 426000481312,I=2.666447377310639 .O=68.46992027612534,W=17.82736881414096,M=2 69.749137015823,EQUINOX=J2000,EPOCH=03- MAR-2009:00:00:00,EpochTimeScale=TDB		
<i>Comments: Extended=NO</i>				
(3)	Orcus	TYPE=ASTEROID,A=39.46235784872698,E=0.2181 727039238146,I=20.56728630078717 .O=268.5956111789696,W=72.86566305033169,M=1 75.1864360680918,EQUINOX=J2000,EPOCH=18- APR-2016:00:00:00,EpochTimeScale=TDB		
<i>Comments: Extended=NO</i>				
(4)	2006BR284	TYPE=ASTEROID,A=43.63998314779991,E=0.0359 0569396309845,I=1.157625066959558 .O=15.11535508190905,W=102.520872657599,M=10. 40170698435425,EQUINOX=J2000,EPOCH=06-FEB- 2009:00:00:00,EpochTimeScale=TDB		
<i>Comments: Extended=NO</i>				
(5)	Lempo	TYPE=ASTEROID,A=39.23007604549573,E=0.2211 533668726024,I=8.416719752562498 .O=97.09672982714018,W=295.1664997825321,M=2. 068210438960069,EQUINOX=J2000,EPOCH=27- OCT-2016:00:00:00,EpochTimeScale=TDB		
<i>Comments: Extended=NO</i>				
(6)	Teharonhiawako	TYPE=ASTEROID,A=43.84310365684858,E=0.0314 442558399213,I=2.584385431545264 .O=304.7984136155625,W=235.2431455364049,M=1 59.1627718926726,EQUINOX=J2000,EPOCH=09- AUG-2015:00:00:00,EpochTimeScale=TDB		
<i>Comments: Extended=NO</i>				
(7)	2003QY90	TYPE=ASTEROID,A=42.70517424017066,E=0.0531 1502980638793,I=3.76575616098298 .O=104.1344328517182,W=43.13595144322609,M=1 80.1504290259948,EQUINOX=J2000,EPOCH=15- APR-2006:00:00:00,EpochTimeScale=TDB		
<i>Comments: Extended=NO</i>				
(8)	2004PB108	TYPE=ASTEROID,A=45.25337473326665,E=0.1082 482672578664,I=20.17150501291851 .O=147.3942809595544,W=271.307564323246,M=29 9.3279063756525,EQUINOX=J2000,EPOCH=24- SEP-2008:00:00:00,EpochTimeScale=TDB		
<i>Comments: Extended=NO</i>				
(9)	Eris	TYPE=ASTEROID,A=67.64444835942322,E=0.4422 243855429888,I=44.19832628991602 .O=35.88047496048509,W=151.4231084491866,M=2 04.7659013943517,EQUINOX=J2000,EPOCH=18- FEB-2017:00:00:00,EpochTimeScale=TDB		
<i>Comments: Extended=NO</i>				

Proposal 6064 - Targets - Constraining the dynamical evolution of the outer solar system with trans-Neptunian binaries

(10)	ALTJIRA	TYPE=ASTEROID,A=44.06932507936104,E=0.0633 4234350762902,I=5.204831029821439 ,O=1.942230479315163,W=296.0515526770211,M=1 14.2997881594204,EQUINOX=J2000,EPOCH=04- SEP-2006:00:00:00,EpochTimeScale=TDB
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Comments: Extended=NO

Proposal 6064 - Observation 1 - Constraining the dynamical evolution of the outer solar system with trans-Neptunian binaries

Mon Mar 17 17:00:14 GMT 2025

Observation	Proposal 6064, Observation 1: Quaoar Diagnostic Status: Warning Observing Template: NIRCam Imaging									
	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Quaoar (Obs 1)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3					
	(1)	Quaoar	TYPE=ASTEROID,A=43.35621062592979,E=0.0399 3647193741599,I=7.9912917217563 .O=189.0992394650243,W=158.6070723684032,M=2 93.8106399929501,EQUINOX=J2000,EPOCH=25- MAY-2023:00:00:00,EpochTimeScale=TDB				<i>Comments: Extended=NO</i>			
Template	Module					Subarray				
	B					SUB400P				
Dithers	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions				
	1	NONE		STANDARD		5				
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F360M	MEDIUM8	10	1	5	5	819.941	
	2	F210M	F300M	DEEP8	20	1	5	5	3221.489	
	3	F070W	F250M	SHALLOW4	6	1	5	5	248.538	

Proposal 6064 - Observation 1 - Constraining the dynamical evolution of the outer solar system with trans-Neptunian binaries

Special Requirements

Between Dates 17-AUG-2024:00:00:00 and 19-AUG-2024:00:00:00
Between Dates 21-AUG-2024:00:00:00 and 01-SEP-2024:00:00:00
Between Dates 03-SEP-2024:00:00:00 and 07-SEP-2024:00:00:00
Between Dates 09-SEP-2024:00:00:00 and 13-SEP-2024:00:00:00
Between Dates 15-SEP-2024:00:00:00 and 19-SEP-2024:00:00:00
Between Dates 21-SEP-2024:00:00:00 and 02-OCT-2024:00:00:00
Between Dates 04-OCT-2024:00:00:00 and 06-OCT-2024:00:00:00
Between Dates 28-MAR-2025:00:00:00 and 31-MAR-2025:00:00:00
Between Dates 02-APR-2025:00:00:00 and 06-APR-2025:00:00:00
Between Dates 08-APR-2025:00:00:00 and 19-APR-2025:00:00:00
Between Dates 21-APR-2025:00:00:00 and 25-APR-2025:00:00:00
Between Dates 27-APR-2025:00:00:00 and 01-MAY-2025:00:00:00
Between Dates 03-MAY-2025:00:00:00 and 07-MAY-2025:00:00:00
Between Dates 09-MAY-2025:00:00:00 and 18-MAY-2025:00:00:00

DEFAULT WINDOW: ANGULAR RATE Quaoar FROM JWST LESS THAN 0.075

Proposal 6064 - Observation 2 - Constraining the dynamical evolution of the outer solar system with trans-Neptunian binaries

Mon Mar 17 17:00:14 GMT 2025

Observation	<p>Proposal 6064, Observation 2: MANWE</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p>									
Diagnostics	<p>(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(MANWE (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)	Manwe	TYPE=ASTEROID,A=43.92028541443305,E=0.1109 426000481312,I=2.666447377310639 .O=68.46992027612534,W=17.82736881414096,M=2 69.749137015823,EQUINOX=J2000,EPOCH=03- MAR-2009:00:00:00,EpochTimeScale=TDB							
	<i>Comments: Extended=NO</i>									
Template	Module				Subarray					
	B				SUB400P					
Dithers	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions				
	1	NONE		STANDARD		5				
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F360M	MEDIUM2	9	1	5	5	687.442	
	2	F210M	F300M	DEEP8	14	1	5	5	2227.745	
	3	F070W	F250M	SHALLOW2	7	1	5	5	273.382	
Special Requirements	<p>Between Dates 06-AUG-2024:00:00:00 and 12-AUG-2024:00:00:00</p> <p>Between Dates 24-NOV-2024:00:00:00 and 29-DEC-2024:00:00:00</p> <p>DEFAULT WINDOW: ANGULAR RATE Manwe FROM JWST LESS THAN 0.075</p>									

Proposal 6064 - Observation 3 - Constraining the dynamical evolution of the outer solar system with trans-Neptunian binaries

Mon Mar 17 17:00:14 GMT 2025

Observation	<p>Proposal 6064, Observation 3: ORCUS</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p>									
	<p>(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(ORCUS (Obs 3)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3					
	(3)	Orcus	TYPE=ASTEROID,A=39.46235784872698,E=0.2181727039238146,I=20.56728630078717,O=268.5956111789696,W=72.86566305033169,M=175.1864360680918,EQUINOX=J2000,EPOCH=18-APR-2016:00:00:00,EpochTimeScale=TDB							
<p>Comments: Extended=NO</p>										
Template	Module				Subarray					
	B				SUB400P					
Dithers	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions				
	1	NONE		STANDARD		5				
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F360M	RAPID	9	1	5	5	82.914	
	2	F210M	F300M	BRIGHT2	10	1	5	5	174.008	
	3	F070W	F250M	RAPID	5	1	5	5	49.79	
Special Requirements	<p>Between Dates 05-DEC-2024:00:00:00 and 26-JAN-2025:00:00:00</p> <p>Between Dates 18-APR-2025:00:00:00 and 11-JUN-2025:00:00:00</p> <p>DEFAULT WINDOW: ANGULAR RATE Orcus FROM JWST LESS THAN 0.075</p>									

Proposal 6064 - Observation 4 - Constraining the dynamical evolution of the outer solar system with trans-Neptunian binaries

Mon Mar 17 17:00:14 GMT 2025

Observation	Proposal 6064, Observation 4: 2006BR284 Diagnostic Status: Warning Observing Template: NIRCam Imaging									
	(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (2006BR284 (Obs 4)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnostics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3					
	(4)	2006BR284	TYPE=ASTEROID,A=43.63998314779991,E=0.0359 0569396309845,I=1.157625066959558 ,O=15.11535508190905,W=102.520872657599,M=10. 40170698435425,EQUINOX=J2000,EPOCH=06-FEB- 2009:00:00:00,EpochTimeScale=TDB				<i>Comments: Extended=NO</i>			
Template	Module					Subarray				
	B					SUB400P				
Dithers	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions				
	1	NONE		STANDARD		5				
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F360M	SHALLOW4	8	1	5	5	331.35	
	2	F210M	F300M	DEEP2	8	1	5	5	1184.314	
	3	F070W	F250M	BRIGHT2	8	1	5	5	140.883	
Special Requirements	Between Dates 20-NOV-2024:00:00:00 and 07-JAN-2025:00:00:00 Between Dates 06-APR-2025:00:00:00 and 26-MAY-2025:00:00:00 DEFAULT WINDOW: ANGULAR RATE 2006BR284 FROM JWST LESS THAN 0.075									

Proposal 6064 - Observation 5 - Constraining the dynamical evolution of the outer solar system with trans-Neptunian binaries

Mon Mar 17 17:00:14 GMT 2025

Observation	Proposal 6064, Observation 5: LEMPO Diagnostic Status: Warning Observing Template: NIRCcam Imaging									
	(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (LEMPO (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					
	(5)	Lempo	TYPE=ASTEROID,A=39.23007604549573,E=0.2211 533668726024,I=8.416719752562498 .O=97.09672982714018,W=295.1664997825321,M=2. 068210438960069,EQUINOX=J2000,EPOCH=27- OCT-2016:00:00:00,EpochTimeScale=TDB <i>Comments: Extended=NO</i>							
Template	Module			Subarray						
	B			SUB400P						
Dithers	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions				
	1	NONE		STANDARD		5				
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F360M	BRIGHT1	8	1	5	5	132.602	
	2	F210M	F300M	SHALLOW2	7	1	5	5	273.382	
	3	F070W	F250M	RAPID	7	1	5	5	66.352	
Special Requirements	Between Dates 15-AUG-2024:00:00:00 and 05-OCT-2024:00:00:00 Between Dates 01-JAN-2025:00:00:00 and 18-FEB-2025:00:00:00 DEFAULT WINDOW: ANGULAR RATE Lempo FROM JWST LESS THAN 0.075									

Proposal 6064 - Observation 6 - Constraining the dynamical evolution of the outer solar system with trans-Neptunian binaries

Mon Mar 17 17:00:14 GMT 2025

Observation	Proposal 6064, Observation 6: TEHARONHIAWAKO Diagnostic Status: Warning Observing Template: NIRCcam Imaging									
	(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (TEHARONHIAWAKO (Obs 6)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnostics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3					
	(6)	Teharonhiawako	TYPE=ASTEROID,A=43.84310365684858,E=0.0314 442558399213,I=2.584385431545264 .O=304.7984136155625,W=235.2431455364049,M=1 59.1627718926726,EQUINOX=J2000,EPOCH=09- AUG-2015:00:00:00,EpochTimeScale=TDB				<i>Comments: Extended=NO</i>			
Template	Module			Subarray						
	B			SUB400P						
Dithers	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions				
	1	NONE		STANDARD		5				
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F360M	SHALLOW4	7	1	5	5	289.944	
	2	F210M	F300M	MEDIUM8	10	1	5	5	819.941	
	3	F070W	F250M	BRIGHT2	7	1	5	5	124.32	
Special Requirements	Between Dates 30-OCT-2024:00:00:00 and 08-DEC-2024:00:00:00 Between Dates 10-JUN-2025:00:00:00 and 11-JUN-2025:00:00:00 DEFAULT WINDOW: ANGULAR RATE Teharonhiawako FROM JWST LESS THAN 0.075									

Proposal 6064 - Observation 7 - Constraining the dynamical evolution of the outer solar system with trans-Neptunian binaries

Mon Mar 17 17:00:14 GMT 2025

Observation	Proposal 6064, Observation 7: 2003QY90 Diagnostic Status: Warning Observing Template: NIRCam Imaging									
	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (2003QY90 (Obs 7)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3					
	(7)	2003QY90	TYPE=ASTEROID,A=42.70517424017066,E=0.0531 1502980638793,I=3.76575616098298 .O=104.1344328517182,W=43.13595144322609,M=1 80.1504290259948,EQUINOX=J2000,EPOCH=15- APR-2006:00:00:00,EpochTimeScale=TDB							
<i>Comments: Extended=NO</i>										
Template	Module				Subarray					
	B				SUB400P					
Dithers	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions				
	1	NONE		STANDARD		5				
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F360M	SHALLOW2	7	1	5	5	273.382	
	2	F210M	F300M	MEDIUM2	9	1	5	5	687.442	
	3	F070W	F250M	BRIGHT1	7	1	5	5	116.039	
Special Requirements	Between Dates 15-NOV-2024:00:00:00 and 15-DEC-2024:00:00:00 Between Dates 08-JUN-2025:00:00:00 and 11-JUN-2025:00:00:00 DEFAULT WINDOW: ANGULAR RATE 2003QY90 FROM JWST LESS THAN 0.075									

Proposal 6064 - Observation 8 - Constraining the dynamical evolution of the outer solar system with trans-Neptunian binaries

Mon Mar 17 17:00:14 GMT 2025

Observation	<p>Proposal 6064, Observation 8: 2004PB108</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p>									
Diagnostics	<p>(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(2004PB108 (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					
	(8)	2004PB108	TYPE=ASTEROID,A=45.25337473326665,E=0.1082 482672578664,I=20.17150501291851 .O=147.3942809595544,W=271.307564323246,M=29 9.3279063756525,EQUINOX=J2000,EPOCH=24- SEP-2008:00:00:00,EpochTimeScale=TDB			<i>Comments: Extended=NO</i>				
Template	Module					Subarray				
	B					SUB400P				
Dithers	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions				
	1	NONE		STANDARD		5				
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F360M	MEDIUM2	9	1	5	5	687.442	
	2	F210M	F300M	DEEP8	13	1	5	5	2062.121	
	3	F070W	F250M	SHALLOW2	6	1	5	5	231.976	
Special Requirements	<p>Between Dates 01-JUL-2024:00:00:00 and 17-AUG-2024:00:00:00</p> <p>Between Dates 12-NOV-2024:00:00:00 and 02-JAN-2025:00:00:00</p> <p>DEFAULT WINDOW: ANGULAR RATE 2004PB108 FROM JWST LESS THAN 0.075</p>									

Proposal 6064 - Observation 9 - Constraining the dynamical evolution of the outer solar system with trans-Neptunian binaries

Mon Mar 17 17:00:14 GMT 2025

Observation	Proposal 6064, Observation 9: ERIS Diagnostic Status: Warning Observing Template: NIRCam Imaging									
	(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (ERIS (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					
	(9)	Eris	TYPE=ASTEROID,A=67.64444835942322,E=0.4422 243855429888,I=44.19832628991602 .O=35.88047496048509,W=151.4231084491866,M=2 04.7659013943517,EQUINOX=J2000,EPOCH=18- FEB-2017:00:00:00,EpochTimeScale=TDB				<i>Comments: Extended=NO</i>			
Template	Module			Subarray						
	B			SUB400P						
Dithers	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions				
	1	NONE		STANDARD		7				
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F360M	DEEP2	8	1	7	7	1658.04	
	2	F210M	F300M	DEEP8	20	1	7	7	4510.085	
	3	F070W	F250M	MEDIUM2	8	1	7	7	846.482	
Special Requirements	Between Dates 14-JUL-2024:00:00:00 and 04-SEP-2024:00:00:00 Between Dates 02-DEC-2024:00:00:00 and 20-JAN-2025:00:00:00 DEFAULT WINDOW: ANGULAR RATE ERIS FROM JWST LESS THAN 0.075									

Proposal 6064 - Observation 11 - Constraining the dynamical evolution of the outer solar system with trans-Neptunian binaries

Mon Mar 17 17:00:14 GMT 2025

Observation	Proposal 6064, Observation 11: ERIS Diagnostic Status: Warning Observing Template: NIRCam Imaging									
	(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (ERIS (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					
	(9)	Eris	TYPE=ASTEROID,A=67.64444835942322,E=0.4422 243855429888,I=44.19832628991602 .O=35.88047496048509,W=151.4231084491866,M=2 04.7659013943517,EQUINOX=J2000,EPOCH=18- FEB-2017:00:00:00,EpochTimeScale=TDB				<i>Comments: Extended=NO</i>			
Template	Module			Subarray						
	B			SUB400P						
Dithers	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions				
	1	NONE		STANDARD		7				
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F360M	DEEP2	8	1	7	7	1658.04	
	2	F210M	F300M	DEEP8	20	1	7	7	4510.085	
	3	F070W	F250M	MEDIUM2	8	1	7	7	846.482	
Special Requirements	Between Dates 14-JUL-2024:00:00:00 and 04-SEP-2024:00:00:00 Between Dates 02-DEC-2024:00:00:00 and 20-JAN-2025:00:00:00 DEFAULT WINDOW: ANGULAR RATE ERIS FROM JWST LESS THAN 0.075									

Proposal 6064 - Observation 10 - Constraining the dynamical evolution of the outer solar system with trans-Neptunian binaries

Mon Mar 17 17:00:14 GMT 2025

Observation	Proposal 6064, Observation 10: ALTJIRA Diagnostic Status: Warning Observing Template: NIRCam Imaging									
	(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (ALTJIRA (Obs 10)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3					
	(10)	ALTJIRA	TYPE=ASTEROID,A=44.06932507936104,E=0.0633 4234350762902,I=5.204831029821439 ,O=1.942230479315163,W=296.0515526770211,M=1 14.2997881594204,EQUINOX=J2000,EPOCH=04- SEP-2006:00:00:00,EpochTimeScale=TDB				<i>Comments: Extended=NO</i>			
Template	Module			Subarray						
	B			SUB400P						
Dithers	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions				
	1	NONE		STANDARD		5				
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F360M	BRIGHT2	8	1	5	5	140.883	
	2	F210M	F300M	SHALLOW4	7	1	5	5	289.944	
	3	F070W	F250M	BRIGHT1	6	1	5	5	99.477	
Special Requirements	Between Dates 09-SEP-2024:00:00:00 and 11-SEP-2024:00:00:00 Between Dates 21-OCT-2024:00:00:00 and 29-OCT-2024:00:00:00 Between Dates 25-JAN-2025:00:00:00 and 28-JAN-2025:00:00:00 Between Dates 09-MAR-2025:00:00:00 and 15-MAR-2025:00:00:00 DEFAULT WINDOW: ANGULAR RATE ALTJIRA FROM JWST LESS THAN 0.075									

Proposal 6064 - Observation 12 - Constraining the dynamical evolution of the outer solar system with trans-Neptunian binaries

Mon Mar 17 17:00:14 GMT 2025

Observation	Proposal 6064, Observation 12: ALTJIRA-UPDT Diagnostic Status: Warning Observing Template: NIRCcam Imaging									
	(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (ALTJIRA-UPDT (Obs 12)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1			Level 2			Level 3	
	(10)	ALTJIRA	TYPE=ASTEROID,A=44.06932507936104,E=0.0633 4234350762902,I=5.204831029821439 ,O=1.942230479315163,W=296.0515526770211,M=1 14.2997881594204,EQUINOX=J2000,EPOCH=04- SEP-2006:00:00:00,EpochTimeScale=TDB Comments: Extended=NO							
Template	Module					Subarray				
	B					SUB400P				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions
	1	NONE				STANDARD				5
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F210M	F300M	SHALLOW4	7	1	5	5	289.944	
	2	F070W	F250M	BRIGHT1	6	1	5	5	99.477	
Special Requirements	Between Dates 09-MAR-2025:00:00:00 and 15-MAR-2025:00:00:00 Between Dates 11-SEP-2025 and 21-SEP-2025 Between Dates 15-OCT-2025 and 30-OCT-2025 DEFAULT WINDOW: ANGULAR RATE ALTJIRA FROM JWST LESS THAN 0.075									