



8527 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Light Echoes

Cycle: 4, Proposal Category: GO

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OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
RepeatedMaki -- Sequence				
	1	RepeatedMaki-Epoch1	NIRCam Imaging	(1) Maki-Repeated
	2	RepeatedMaki-Epoch2	NIRCam Imaging	(1) Maki-Repeated

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Folder	Observation	Label	Observing Template	Science Target
	3	RepeatedMaki-Epoch3	NIRCam Imaging	(1) Maki-Repeated
	4	RepeatedMaki-Epoch4	NIRCam Imaging	(1) Maki-Repeated
	5	RepeatedMaki-Epoch5	NIRCam Imaging	(1) Maki-Repeated
	6	RepeatedMaki-Epoch6	NIRCam Imaging	(1) Maki-Repeated
	7	RepeatedMaki-Epoch7	NIRCam Imaging	(1) Maki-Repeated
	8	RepeatedMaki-Epoch8	NIRCam Imaging	(1) Maki-Repeated
	35	RepeatedMaki-Epoch9	NIRCam Imaging	(1) Maki-Repeated
	36	RepeatedMaki-Epoch10	NIRCam Imaging	(1) Maki-Repeated
	37	RepeatedMaki-Epoch11	NIRCam Imaging	(1) Maki-Repeated
	38	RepeatedMaki-Epoch12	NIRCam Imaging	(1) Maki-Repeated
	39	RepeatedMaki-Epoch13	NIRCam Imaging	(1) Maki-Repeated
	40	RepeatedMaki-Epoch6point5	NIRCam Imaging	(1) Maki-Repeated
RepeatedLuna -- Sequence				
	9	RepeatedLuna-Epoch1	NIRCam Imaging	(2) Luna-Repeated
	10	RepeatedLuna-Epoch2	NIRCam Imaging	(2) Luna-Repeated
	11	RepeatedLuna-Epoch3	NIRCam Imaging	(2) Luna-Repeated
	12	RepeatedLuna-Epoch4	NIRCam Imaging	(2) Luna-Repeated
	13	RepeatedLuna-Epoch5	NIRCam Imaging	(2) Luna-Repeated
	14	RepeatedLuna-Epoch6	NIRCam Imaging	(2) Luna-Repeated
	15	RepeatedLuna-Epoch7	NIRCam Imaging	(2) Luna-Repeated
	16	RepeatedLuna-Epoch8	NIRCam Imaging	(2) Luna-Repeated
	41	RepeatedLuna-Epoch9	NIRCam Imaging	(2) Luna-Repeated
	42	RepeatedLuna-Epoch10	NIRCam Imaging	(2) Luna-Repeated
	43	RepeatedLuna-Epoch11	NIRCam Imaging	(2) Luna-Repeated
	44	RepeatedLuna-Epoch12	NIRCam Imaging	(2) Luna-Repeated
	45	RepeatedLuna-Epoch13	NIRCam Imaging	(2) Luna-Repeated
	46	RepeatedLuna-Epoch6point5	NIRCam Imaging	(2) Luna-Repeated
RepeatedGreebo -- Sequence				

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Folder	Observation	Label	Observing Template	Science Target
	17	RepeatedGreebo-Epoch 1	NIRCam Imaging	(3) Greebo-Repeated
	18	RepeatedGreebo-Epoch 2	NIRCam Imaging	(3) Greebo-Repeated
	19	RepeatedGreebo-Epoch 3	NIRCam Imaging	(3) Greebo-Repeated
	20	RepeatedGreebo-Epoch 4	NIRCam Imaging	(3) Greebo-Repeated
	21	RepeatedGreebo-Epoch 5	NIRCam Imaging	(3) Greebo-Repeated
	22	RepeatedGreebo-Epoch 6	NIRCam Imaging	(3) Greebo-Repeated
	23	RepeatedGreebo-Epoch 7	NIRCam Imaging	(3) Greebo-Repeated
	24	RepeatedGreebo-Epoch 8	NIRCam Imaging	(3) Greebo-Repeated
	47	RepeatedGreebo-Epoch 9	NIRCam Imaging	(3) Greebo-Repeated
	48	RepeatedGreebo-Epoch 10	NIRCam Imaging	(3) Greebo-Repeated
	49	RepeatedGreebo-Epoch 11	NIRCam Imaging	(3) Greebo-Repeated
	50	RepeatedGreebo-Epoch 12	NIRCam Imaging	(3) Greebo-Repeated
	51	RepeatedGreebo-Epoch 13	NIRCam Imaging	(3) Greebo-Repeated
	52	RepeatedGreebo-Epoch 6point5	NIRCam Imaging	(3) Greebo-Repeated
Daphne -- single				
	25	Daphne	NIRCam Imaging	(4) Daphne
Oliver -- single				
	26	Oliver	NIRCam Imaging	(5) Oliver
Luna -- single				
	27	Luna	NIRCam Imaging	(6) Luna
Greebo -- single				
	28	Greebo	NIRCam Imaging	(7) Greebo

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Mab -- single				
	29	Mab	NIRCam Imaging	(8) Mab
Baby Cas A-- single				
	55	Baby Cas A	NIRCam Imaging	(11) Baby_Cas_A
Chloe -- single				
	30	Chloe	NIRCam Imaging	(9) Chloe
Juniper -- single				
	54	Juniper	NIRCam Imaging	(12) Juniper
Maki -- single				
	31	Maki	NIRCam Imaging	(10) Maki
Coriander -- single				
	53	NW1	NIRCam Imaging	(13) Coriander

ABSTRACT

On August 19th, 2024, JWST made an observation of a thermal light echo from the Cas A supernova that has started a new era in the study of the ISM. The sub-structures, most clearly detected in the longest wavelength filters of NIRCam, show never-before seen structures down to 500 AU scales that we believe probe the typical cold neutral medium (CNM) and fundamental ISM processes. We propose here a program that will (A) measure the morphological diversity of these sub-structures (B) provide enough photometric depth to probe an intriguing density-complexity relationship (C) reconstruct the true 3D sub-structure of the CNM at <0.01 pc resolution.

OBSERVING DESCRIPTION

There are two main components of this proposal: Firstly, a single-band, single epoch survey targeting 10 of the thermal light echoes from Cas A; secondly, a 15-epoch survey focusing on a subset of 3 of these Cas A thermal light echoes.

For the first epoch of the observations, we will observe all 10 targets in a non-interruptable sequence. In each of the remaining 14 epochs, we will observe the 3 of the multi-epoch targets in a non-interruptable sequence. The epochs are required to be spaced in 14 day increments relative to the original observing epoch, with a ± 2 day tolerance for each epoch. I.e., epoch 2 will happen 12-16 days after epoch 1; epoch 3 will happen 26-30 days after epoch 1. This spacing provides the required temporal resolution, and hence physical resolution, to enable our reconstruction of the 3D structure of the ISM.

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For all targets, the individual observations in each epoch are all conducted in the same way. Specifically, we observe with F444W in NIRCам LW (the filter which is our main science objective), and F200W and F070W in NIRCам SW. Every observation consists of 1 integration of 8 groups, with the SHALLOW4 readout mode; as per JDOX, this is the recommended strategy for optimal observing per depth, given the depth required for our observations. Every observation uses the INTRAMODULEX dither pattern with 4 dither pointings, to optimise observing time for a given full-depth coverage; the 8 groups per integration, at each of the 4 dither positions, should provide good cosmic ray rejection.

Proposal 8527 - Targets - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Light Echoes

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	Maki-Repeated	RA: 23 10 42.0000 (347.6750000d) Dec: +59 55 18.70 (59.92186d) Equinox: J2000 Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES		
(2)	Luna-Repeated	RA: 23 23 27.0000 (350.8625000d) Dec: +56 49 51.00 (56.83083d) Equinox: J2000 Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES		
(3)	Greebo-Repeated	RA: 23 21 0.0000 (350.2500000d) Dec: +58 12 4.00 (58.20111d) Equinox: J2000 Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES		
(4)	Daphne	RA: 23 27 40.0000 (351.9166667d) Dec: +60 04 49.00 (60.08028d) Equinox: J2000 Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES		
(5)	Oliver	RA: 23 25 47.0000 (351.4458333d) Dec: +57 45 2.00 (57.75056d) Equinox: J2000 Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES		
(6)	Luna	RA: 23 23 27.0000 (350.8625000d) Dec: +56 49 51.00 (56.83083d) Equinox: J2000 Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES		
(7)	Greebo	RA: 23 21 0.0000 (350.2500000d) Dec: +58 12 4.00 (58.20111d) Equinox: J2000 Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES		

Proposal 8527 - Targets - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Light Echoes

(8)	Mab	RA: 23 16 3.2000 (349.0133333d) Dec: +58 20 43.40 (58.34539d) Equinox: J2000 <i>Comments:</i> <i>Category=ISM</i> <i>Description=[Interstellar clouds, Interstellar dust, Interstellar molecules]</i> <i>Extended=YES</i>
(9)	Chloe	RA: 23 14 43.3000 (348.6804167d) Dec: +59 16 35.20 (59.27644d) Equinox: J2000 <i>Comments:</i> <i>Category=ISM</i> <i>Description=[Interstellar clouds, Interstellar dust, Interstellar molecules]</i> <i>Extended=YES</i>
(10)	Maki	RA: 23 10 42.0000 (347.6750000d) Dec: +59 55 18.70 (59.92186d) Equinox: J2000 <i>Comments:</i> <i>Category=ISM</i> <i>Description=[Interstellar clouds, Interstellar dust, Interstellar molecules]</i> <i>Extended=YES</i>
(11)	Baby_Cas_A	RA: 23 22 51.3000 (350.7137500d) Dec: +58 47 37.50 (58.79375d) Equinox: J2000 <i>Comments:</i> <i>Category=ISM</i> <i>Description=[Interstellar clouds, Interstellar dust, Interstellar molecules]</i> <i>Extended=YES</i>
(12)	Juniper	RA: 23 23 0.6000 (350.7525000d) Dec: +59 23 56.50 (59.39903d) Equinox: J2000 <i>Comments:</i> <i>Category=ISM</i> <i>Description=[Interstellar clouds, Interstellar dust, Interstellar molecules]</i> <i>Extended=YES</i>
(13)	Coriander	RA: 23 26 8.0000 (351.5333333d) Dec: +59 38 8.00 (59.63556d) Equinox: J2000 <i>Comments:</i> <i>Category=ISM</i> <i>Description=[Interstellar clouds, Interstellar dust, Interstellar molecules]</i> <i>Extended=YES</i>

Proposal 8527 - Observation 1 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Light ...

Observation	Proposal 8527, Observation 1: RepeatedMaki-Epoch1										Wed Jul 16 17:01:03 GMT 2025	
	Diagnostic Status: Warning											
	Observing Template: NIRCam Imaging											
Diagnostics	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
	(Visit 1:1) 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.											
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous		
	(1)	Maki-Repeated	RA: 23 10 42.0000 (347.6750000d) Dec: +59 55 18.70 (59.92186d) Equinox: J2000									
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES											
Template	Module		Subarray					Target Placement				
	ALL		FULL					Module B (B4 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions		
	1	INTRAMODULEX		4		STANDARD				1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID		
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936			
Special Requirements	Fiducial Point Override NRCBS_FULL											
	1 After 53 by 14 Days to 16 Days 2 After 1 by 12 Days to 16 Days 3 After 1 by 26 Days to 30 Days 4 After 1 by 40 Days to 44 Days 5 After 1 by 54 Days to 58 Days 6 After 1 by 68 Days to 72 Days 7 After 1 by 82 Days to 86 Days 8 After 1 by 96 Days to 100 Days 35 After 1 by 110 Days to 114 Days 36 After 1 by 124 Days to 128 Days 37 After 1 by 138 Days to 142 Days 38 After 1 by 152 Days to 156 Days 39 After 1 by 166 Days to 170 Days 40 After 1 by 75 Days to 79 Days Group Observations 1, 9, 17, Non-interruptible											

Proposal 8527 - Observation 2 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Light ...

Observation	Proposal 8527, Observation 2: RepeatedMaki-Epoch2									Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning									
Observing Template: NIRCam Imaging										
Diagnostics	(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
	(Visit 2:1) 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.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(1)	Maki-Repeated	RA: 23 10 42.0000 (347.6750000d) Dec: +59 55 18.70 (59.92186d) Equinox: J2000							
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES									
Template	Module		Subarray				Target Placement			
	ALL		FULL				Module B (B4 corner)			
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions
	1	INTRAMODULEX		4		STANDARD				1
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936	
Special Requirements	Fiducial Point Override NRCBS_FULL									
	2 After 1 by 12 Days to 16 Days Group Observations 2, 10, 18, Non-interruptible									

Proposal 8527 - Observation 3 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Light ...

Observation	Proposal 8527, Observation 3: RepeatedMaki-Epoch3									Wed Jul 16 17:01:03 GMT 2025	
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
	(Visit 3:1) 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.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(1)	Maki-Repeated	RA: 23 10 42.0000 (347.6750000d)								
			Dec: +59 55 18.70 (59.92186d)								
			Equinox: J2000								
Template	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
	Module		Subarray				Target Placement				
	ALL		FULL				Module B (B4 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	3 After 1 by 26 Days to 30 Days Group Observations 3, 11, 19, Non-interruptible										

Proposal 8527 - Observation 4 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Light ...

Observation	Proposal 8527, Observation 4: RepeatedMaki-Epoch4										Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
	(Visit 4:1) 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.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(1)	Maki-Repeated	RA: 23 10 42.0000 (347.6750000d)								
			Dec: +59 55 18.70 (59.92186d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module		Subarray				Target Placement				
	ALL		FULL				Module B (B4 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	4 After 1 by 40 Days to 44 Days Group Observations 4, 12, 20, Non-interruptible										

Proposal 8527 - Observation 5 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Light ...

Observation	Proposal 8527, Observation 5: RepeatedMaki-Epoch5										Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning										
Observing Template: NIRCam Imaging											
Diagnostics	(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(1)	Maki-Repeated	RA: 23 10 42.0000 (347.6750000d)								
			Dec: +59 55 18.70 (59.92186d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module	Subarray				Target Placement					
	ALL	FULL				Module B (B4 corner)					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	5 After 1 by 54 Days to 58 Days Group Observations 5, 13, 21, Non-interruptible										

Proposal 8527 - Observation 6 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Light ...

Observation	Proposal 8527, Observation 6: RepeatedMaki-Epoch6										Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(1)	Maki-Repeated	RA: 23 10 42.0000 (347.6750000d)								
			Dec: +59 55 18.70 (59.92186d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module	Subarray				Target Placement					
	ALL	FULL				Module B (B4 corner)					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	6 After 1 by 68 Days to 72 Days Group Observations 6, 14, 22, Non-interruptible										

Proposal 8527 - Observation 7 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Light ...

Observation	Proposal 8527, Observation 7: RepeatedMaki-Epoch7										Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(1)	Maki-Repeated	RA: 23 10 42.0000 (347.6750000d)								
			Dec: +59 55 18.70 (59.92186d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module	Subarray				Target Placement					
	ALL	FULL				Module B (B4 corner)					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	7 After 1 by 82 Days to 86 Days Group Observations 7, 15, 23, Non-interruptible										

Proposal 8527 - Observation 8 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Light ...

Observation	Proposal 8527, Observation 8: RepeatedMaki-Epoch8										Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(1)	Maki-Repeated	RA: 23 10 42.0000 (347.6750000d)								
			Dec: +59 55 18.70 (59.92186d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module	Subarray				Target Placement					
	ALL	FULL				Module B (B4 corner)					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	8 After 1 by 96 Days to 100 Days										
	Group Observations 8, 16, 24, Non-interruptible										

Proposal 8527 - Observation 35 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 35: RepeatedMaki-Epoch9									Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning									
Observing Template: NIRCam Imaging										
Diagnostics	(Visit 35:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(1)	Maki-Repeated	RA: 23 10 42.0000 (347.6750000d) Dec: +59 55 18.70 (59.92186d) Equinox: J2000							
Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module		Subarray			Target Placement				
	ALL		FULL			Module B (B4 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions
	1	INTRAMODULEX		4		STANDARD				1
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936	
Special Requirements	Fiducial Point Override NRCBS_FULL 35 After 1 by 110 Days to 114 Days Group Observations 35, 41, 47, Non-interruptible									

Proposal 8527 - Observation 36 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 36: RepeatedMaki-Epoch10									Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning									
Observing Template: NIRCam Imaging										
Diagnostics	(Visit 36:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(1)	Maki-Repeated	RA: 23 10 42.0000 (347.6750000d) Dec: +59 55 18.70 (59.92186d) Equinox: J2000							
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES									
Template	Module		Subarray				Target Placement			
	ALL		FULL				Module B (B4 corner)			
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions
	1	INTRAMODULEX		4		STANDARD				1
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936	
Special Requirements	Fiducial Point Override NRCBS_FULL									
	36 After 1 by 124 Days to 128 Days Group Observations 36, 42, 48, Non-interruptible									

Proposal 8527 - Observation 37 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 37: RepeatedMaki-Epoch11									Wed Jul 16 17:01:03 GMT 2025	
	Diagnostic Status: Warning										
Observing Template: NIRCam Imaging											
Diagnostics	(Visit 37:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(1)	Maki-Repeated	RA: 23 10 42.0000 (347.6750000d)								
			Dec: +59 55 18.70 (59.92186d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module	Subarray				Target Placement					
	ALL	FULL				Module B (B4 corner)					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	37 After 1 by 138 Days to 142 Days Group Observations 37, 43, 49, Non-interruptible										

Proposal 8527 - Observation 38 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 38: RepeatedMaki-Epoch12									Wed Jul 16 17:01:03 GMT 2025	
	Diagnostic Status: Warning										
Observing Template: NIRCam Imaging											
Diagnostics	(Visit 38:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(1)	Maki-Repeated	RA: 23 10 42.0000 (347.6750000d)								
			Dec: +59 55 18.70 (59.92186d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module	Subarray				Target Placement					
	ALL	FULL				Module B (B4 corner)					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	38 After 1 by 152 Days to 156 Days Group Observations 38, 44, 50, Non-interruptible										

Proposal 8527 - Observation 39 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 39: RepeatedMaki-Epoch13									Wed Jul 16 17:01:03 GMT 2025	
	Diagnostic Status: Warning										
Observing Template: NIRCam Imaging											
Diagnostics	(Visit 39:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(1)	Maki-Repeated	RA: 23 10 42.0000 (347.6750000d)								
			Dec: +59 55 18.70 (59.92186d)								
			Equinox: J2000								
Template	Comments:										
	Category=ISM										
	Description=[Interstellar clouds, Interstellar dust, Interstellar molecules]										
	Extended=YES										
Module	Subarray			Target Placement							
	FULL			Module B (B4 corner)							
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	39 After 1 by 166 Days to 170 Days Group Observations 39, 45, 51, Non-interruptible										

Proposal 8527 - Observation 40 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 40: RepeatedMaki-Epoch6point5										Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 40:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(1)	Maki-Repeated	RA: 23 10 42.0000 (347.6750000d)								
			Dec: +59 55 18.70 (59.92186d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module	Subarray				Target Placement					
	ALL	FULL				Module B (B4 corner)					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	40 After 1 by 75 Days to 79 Days Group Observations 40, 46, 52, Non-interruptible										

Proposal 8527 - Observation 9 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Light ...

Observation	Proposal 8527, Observation 9: RepeatedLuna-Epoch1										Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(2)	Luna-Repeated	RA: 23 23 27.0000 (350.8625000d)								
			Dec: +56 49 51.00 (56.83083d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module	Subarray				Target Placement					
	ALL	FULL				Module B (B4 corner)					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F070W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 1, 9, 17, Non-interruptible										

Proposal 8527 - Observation 10 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 10: RepeatedLuna-Epoch2									Wed Jul 16 17:01:03 GMT 2025	
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous			
	(2)	Luna-Repeated	RA: 23 23 27.0000 (350.8625000d)								
			Dec: +56 49 51.00 (56.83083d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module		Subarray			Target Placement					
	ALL		FULL			Module B (B4 corner)					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F070W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 2, 10, 18, Non-interruptible										

Proposal 8527 - Observation 11 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 11: RepeatedLuna-Epoch3										Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(2)	Luna-Repeated	RA: 23 23 27.0000 (350.8625000d) Dec: +56 49 51.00 (56.83083d) Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module		Subarray				Target Placement				
	ALL		FULL				Module B (B4 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F070W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 3, 11, 19, Non-interruptible										

Proposal 8527 - Observation 12 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 12: RepeatedLuna-Epoch4										Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(2)	Luna-Repeated	RA: 23 23 27.0000 (350.8625000d)								
			Dec: +56 49 51.00 (56.83083d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module		Subarray				Target Placement				
	ALL		FULL				Module B (B4 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F070W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 4, 12, 20, Non-interruptible										

Proposal 8527 - Observation 13 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 13: RepeatedLuna-Epoch5									Wed Jul 16 17:01:03 GMT 2025	
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(2)	Luna-Repeated	RA: 23 23 27.0000 (350.8625000d)								
			Dec: +56 49 51.00 (56.83083d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module		Subarray				Target Placement				
	ALL		FULL				Module B (B4 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F070W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 5, 13, 21, Non-interruptible										

Proposal 8527 - Observation 14 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 14: RepeatedLuna-Epoch6										Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(2)	Luna-Repeated	RA: 23 23 27.0000 (350.8625000d)								
			Dec: +56 49 51.00 (56.83083d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module		Subarray				Target Placement				
	ALL		FULL				Module B (B4 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F070W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 6, 14, 22, Non-interruptible										

Proposal 8527 - Observation 15 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 15: RepeatedLuna-Epoch7									Wed Jul 16 17:01:03 GMT 2025	
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous			
	(2)	Luna-Repeated	RA: 23 23 27.0000 (350.8625000d)								
			Dec: +56 49 51.00 (56.83083d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module	Subarray				Target Placement					
	ALL	FULL				Module B (B4 corner)					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F070W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 7, 15, 23, Non-interruptible										

Proposal 8527 - Observation 16 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 16: RepeatedLuna-Epoch8									Wed Jul 16 17:01:03 GMT 2025	
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous			
	(2)	Luna-Repeated	RA: 23 23 27.0000 (350.8625000d)								
			Dec: +56 49 51.00 (56.83083d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module		Subarray				Target Placement				
	ALL		FULL				Module B (B4 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F070W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 8, 16, 24, Non-interruptible										

Proposal 8527 - Observation 41 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 41: RepeatedLuna-Epoch9									Wed Jul 16 17:01:03 GMT 2025	
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 41:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous			
	(2)	Luna-Repeated	RA: 23 23 27.0000 (350.8625000d) Dec: +56 49 51.00 (56.83083d) Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module		Subarray				Target Placement				
	ALL		FULL				Module B (B4 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F070W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 35, 41, 47, Non-interruptible										

Proposal 8527 - Observation 42 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 42: RepeatedLuna-Epoch10									Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning									
	Observing Template: NIRCam Imaging									
Diagnostics	(Visit 42:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(2)	Luna-Repeated	RA: 23 23 27.0000 (350.8625000d)							
			Dec: +56 49 51.00 (56.83083d)							
			Equinox: J2000							
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES									
Template	Module		Subarray			Target Placement				
	ALL		FULL			Module B (B4 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions
	1	INTRAMODULEX		4		STANDARD				1
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F070W	F444W	SHALLOW4	8	1	4	4	1674.936	
Special Requirements	Fiducial Point Override NRCBS_FULL									
	Group Observations 36, 42, 48, Non-interruptible									

Proposal 8527 - Observation 43 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 43: RepeatedLuna-Epoch11									Wed Jul 16 17:01:03 GMT 2025	
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 43:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous			
	(2)	Luna-Repeated	RA: 23 23 27.0000 (350.8625000d)								
			Dec: +56 49 51.00 (56.83083d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module		Subarray				Target Placement				
	ALL		FULL				Module B (B4 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F070W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 37, 43, 49, Non-interruptible										

Proposal 8527 - Observation 44 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 44: RepeatedLuna-Epoch12									Wed Jul 16 17:01:03 GMT 2025							
	Diagnostic Status: Warning																
Observing Template: NIRCam Imaging																	
Diagnostics	(Visit 44:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous								
	(2)	Luna-Repeated	RA: 23 23 27.0000 (350.8625000d)														
			Dec: +56 49 51.00 (56.83083d)														
			Equinox: J2000														
Template	Comments:																
	Category=ISM																
	Description=[Interstellar clouds, Interstellar dust, Interstellar molecules]																
	Extended=YES																
Module	Subarray		Target Placement														
	ALL		FULL		Module B (B4 corner)												
#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions								
	1		INTRAMODULEX		4		STANDARD		1								
#	Short Filter		Long Filter		Readout Pattern		Groups/Int		Integrations/Exp		Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID			
	1		F070W		F444W		SHALLOW4		8		1		4		4		1674.936
Special Requirements	Fiducial Point Override NRCBS_FULL																
	Group Observations 38, 44, 50, Non-interruptible																

Proposal 8527 - Observation 45 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 45: RepeatedLuna-Epoch13									Wed Jul 16 17:01:03 GMT 2025	
	Diagnostic Status: Warning										
Observing Template: NIRCam Imaging											
Diagnostics	(Visit 45:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(2)	Luna-Repeated	RA: 23 23 27.0000 (350.8625000d)								
			Dec: +56 49 51.00 (56.83083d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module	Subarray				Target Placement					
	ALL	FULL				Module B (B4 corner)					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F070W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 39, 45, 51, Non-interruptible										

Proposal 8527 - Observation 46 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 46: RepeatedLuna-Epoch6point5										Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 46:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(2)	Luna-Repeated	RA: 23 23 27.0000 (350.8625000d)								
			Dec: +56 49 51.00 (56.83083d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module	Subarray				Target Placement					
	ALL	FULL				Module B (B4 corner)					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F070W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 40, 46, 52, Non-interruptible										

Proposal 8527 - Observation 17 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 17: RepeatedGreebo-Epoch1									Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning									
Observing Template: NIRCam Imaging										
Diagnostics	(Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(3)	Greebo-Repeated	RA: 23 21 0.0000 (350.2500000d)							
			Dec: +58 12 4.00 (58.20111d)							
			Equinox: J2000							
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES									
Template	Module	Subarray				Target Placement				
	ALL	FULL				Module B (B4 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions
	1	INTRAMODULEX		4		STANDARD				1
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936	
Special Requirements	Fiducial Point Override NRCBS_FULL									
	Group Observations 1, 9, 17, Non-interruptible									

Proposal 8527 - Observation 18 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 18: RepeatedGreebo-Epoch2									Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning									
Observing Template: NIRCam Imaging										
Diagnostics	(Visit 18:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(3)	Greebo-Repeated	RA: 23 21 0.0000 (350.2500000d)							
			Dec: +58 12 4.00 (58.20111d)							
			Equinox: J2000							
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES									
Template	Module		Subarray				Target Placement			
	ALL		FULL				Module B (B4 corner)			
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions
	1	INTRAMODULEX		4		STANDARD				1
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936	
Special Requirements	Fiducial Point Override NRCBS_FULL									
	Group Observations 2, 10, 18, Non-interruptible									

Proposal 8527 - Observation 19 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 19: RepeatedGreebo-Epoch3									Wed Jul 16 17:01:03 GMT 2025	
	Diagnostic Status: Warning										
Observing Template: NIRCam Imaging											
Diagnostics	(Visit 19:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(3)	Greebo-Repeated	RA: 23 21 0.0000 (350.2500000d)								
			Dec: +58 12 4.00 (58.20111d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module	Subarray				Target Placement					
	ALL	FULL				Module B (B4 corner)					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 3, 11, 19, Non-interruptible										

Proposal 8527 - Observation 20 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 20: RepeatedGreebo-Epoch4									Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning									
	Observing Template: NIRCam Imaging									
Diagnostics	(Visit 20:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(3)	Greebo-Repeated	RA: 23 21 0.0000 (350.2500000d)							
			Dec: +58 12 4.00 (58.20111d)							
			Equinox: J2000							
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES									
Template	Module	Subarray				Target Placement				
	ALL	FULL				Module B (B4 corner)				
Dithers	#	Primary Dither Type	Primary Dithers		Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRAMODULEX	4		STANDARD			1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936	
Special Requirements	Fiducial Point Override NRCBS_FULL									
	Group Observations 4, 12, 20, Non-interruptible									

Proposal 8527 - Observation 21 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 21: RepeatedGreebo-Epoch5									Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning									
Observing Template: NIRCam Imaging										
Diagnostics	(Visit 21:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(3)	Greebo-Repeated	RA: 23 21 0.0000 (350.2500000d)							
			Dec: +58 12 4.00 (58.20111d)							
			Equinox: J2000							
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES									
Template	Module		Subarray				Target Placement			
	ALL		FULL				Module B (B4 corner)			
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions
	1	INTRAMODULEX		4		STANDARD				1
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936	
Special Requirements	Fiducial Point Override NRCBS_FULL									
	Group Observations 5, 13, 21, Non-interruptible									

Proposal 8527 - Observation 22 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 22: RepeatedGreebo-Epoch6										Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 22:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(3)	Greebo-Repeated	RA: 23 21 0.0000 (350.2500000d)								
			Dec: +58 12 4.00 (58.20111d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module	Subarray				Target Placement					
	ALL	FULL				Module B (B4 corner)					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 6, 14, 22, Non-interruptible										

Proposal 8527 - Observation 23 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 23: RepeatedGreebo-Epoch7									Wed Jul 16 17:01:03 GMT 2025	
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 23:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous			
	(3)	Greebo-Repeated	RA: 23 21 0.0000 (350.2500000d)								
			Dec: +58 12 4.00 (58.20111d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module		Subarray				Target Placement				
	ALL		FULL				Module B (B4 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 7, 15, 23, Non-interruptible										

Proposal 8527 - Observation 24 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 24: RepeatedGreebo-Epoch8									Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning									
Observing Template: NIRCam Imaging										
Diagnostics	(Visit 24:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(3)	Greebo-Repeated	RA: 23 21 0.0000 (350.2500000d)							
			Dec: +58 12 4.00 (58.20111d)							
			Equinox: J2000							
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES									
Template	Module		Subarray				Target Placement			
	ALL		FULL				Module B (B4 corner)			
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions
	1	INTRAMODULEX		4		STANDARD				1
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936	
Special Requirements	Fiducial Point Override NRCBS_FULL									
	Group Observations 8, 16, 24, Non-interruptible									

Proposal 8527 - Observation 47 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 47: RepeatedGreebo-Epoch9									Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning									
Observing Template: NIRCam Imaging										
Diagnostics	(Visit 47:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(3)	Greebo-Repeated	RA: 23 21 0.0000 (350.2500000d)							
			Dec: +58 12 4.00 (58.20111d)							
			Equinox: J2000							
Template	Comments:									
	Category=ISM									
	Description=[Interstellar clouds, Interstellar dust, Interstellar molecules]									
	Extended=YES									
Module	Subarray		Target Placement							
	ALL		FULL		Module B (B4 corner)					
Dithers	#	Primary Dither Type	Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX	4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936	
Special Requirements	Fiducial Point Override NRCBS_FULL									
	Group Observations 35, 41, 47, Non-interruptible									

Proposal 8527 - Observation 48 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 48: RepeatedGreebo-Epoch10									Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning									
Observing Template: NIRCam Imaging										
Diagnostics	(Visit 48:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(3)	Greebo-Repeated	RA: 23 21 0.0000 (350.2500000d)							
			Dec: +58 12 4.00 (58.20111d)							
			Equinox: J2000							
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES									
Template	Module	Subarray				Target Placement				
	ALL	FULL				Module B (B4 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions
	1	INTRAMODULEX		4		STANDARD				1
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936	
Special Requirements	Fiducial Point Override NRCBS_FULL									
	Group Observations 36, 42, 48, Non-interruptible									

Proposal 8527 - Observation 49 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 49: RepeatedGreebo-Epoch11									Wed Jul 16 17:01:03 GMT 2025	
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 49:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(3)	Greebo-Repeated	RA: 23 21 0.0000 (350.2500000d)								
			Dec: +58 12 4.00 (58.20111d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module		Subarray				Target Placement				
	ALL		FULL				Module B (B4 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 37, 43, 49, Non-interruptible										

Proposal 8527 - Observation 50 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 50: RepeatedGreebo-Epoch12									Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning									
Observing Template: NIRCam Imaging										
Diagnostics	(Visit 50:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(3)	Greebo-Repeated	RA: 23 21 0.0000 (350.2500000d)							
			Dec: +58 12 4.00 (58.20111d)							
			Equinox: J2000							
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES									
Template	Module		Subarray				Target Placement			
	ALL		FULL				Module B (B4 corner)			
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions
	1	INTRAMODULEX		4		STANDARD				1
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936	
Special Requirements	Fiducial Point Override NRCBS_FULL									
	Group Observations 38, 44, 50, Non-interruptible									

Proposal 8527 - Observation 51 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 51: RepeatedGreebo-Epoch13									Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning									
Observing Template: NIRCam Imaging										
Diagnostics	(Visit 51:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(3)	Greebo-Repeated	RA: 23 21 0.0000 (350.2500000d)							
			Dec: +58 12 4.00 (58.20111d)							
			Equinox: J2000							
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES									
Template	Module		Subarray				Target Placement			
	ALL		FULL				Module B (B4 corner)			
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions
	1	INTRAMODULEX		4		STANDARD				1
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936	
Special Requirements	Fiducial Point Override NRCBS_FULL									
	Group Observations 39, 45, 51, Non-interruptible									

Proposal 8527 - Observation 52 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 52: RepeatedGreebo-Epoch6point5									Wed Jul 16 17:01:03 GMT 2025	
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 52:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(3)	Greebo-Repeated	RA: 23 21 0.0000 (350.2500000d)								
			Dec: +58 12 4.00 (58.20111d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module		Subarray				Target Placement				
	ALL		FULL				Module B (B4 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 40, 46, 52, Non-interruptible										

Proposal 8527 - Observation 25 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 25: Daphne										Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 25:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(4)	Daphne	RA: 23 27 40.0000 (351.9166667d)								
			Dec: +60 04 49.00 (60.08028d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module	Subarray				Target Placement					
	ALL	FULL				Module B (B4 corner)					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F070W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 25, 26, 27, 28, 29, 30, 31, 53, 54, 55 within 1 Days										

Proposal 8527 - Observation 26 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 26: Oliver										Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 26:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(5)	Oliver	RA: 23 25 47.0000 (351.4458333d)								
			Dec: +57 45 2.00 (57.75056d)								
			Equinox: J2000								
		Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES									
Template	Module	Subarray				Target Placement					
	ALL	FULL				Module A (A3 corner)					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F070W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCAS_FULL										
	Group Observations 25, 26, 27, 28, 29, 30, 31, 53, 54, 55 within 1 Days										

Proposal 8527 - Observation 27 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 27: Luna									Wed Jul 16 17:01:03 GMT 2025	
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 27:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous			
	(6)	Luna	RA: 23 23 27.0000 (350.8625000d) Dec: +56 49 51.00 (56.83083d) Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module		Subarray				Target Placement				
	ALL		FULL				Module B (B4 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F070W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 25, 26, 27, 28, 29, 30, 31, 53, 54, 55 within 1 Days										

Proposal 8527 - Observation 28 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 28: Greebo										Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 28:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(7)	Greebo	RA: 23 21 0.0000 (350.2500000d)								
			Dec: +58 12 4.00 (58.20111d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module		Subarray				Target Placement				
	ALL		FULL				Module B (B4 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F070W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 25, 26, 27, 28, 29, 30, 31, 53, 54, 55 within 1 Days										

Proposal 8527 - Observation 29 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 29: Mab										Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 29:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(8)	Mab	RA: 23 16 3.2000 (349.0133333d)								
			Dec: +58 20 43.40 (58.34539d)								
			Equinox: J2000								
		Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES									
Template	Module	Subarray				Target Placement					
	ALL	FULL				Module B (B4 corner)					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 25, 26, 27, 28, 29, 30, 31, 53, 54, 55 within 1 Days										

Proposal 8527 - Observation 55 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 55: Baby Cas A									Wed Jul 16 17:01:03 GMT 2025	
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 55:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous			
	(11)	Baby_Cas_A	RA: 23 22 51.3000 (350.7137500d) Dec: +58 47 37.50 (58.79375d) Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module		Subarray				Target Placement				
	ALL		FULL				Module B (B4 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL										
	Group Observations 25, 26, 27, 28, 29, 30, 31, 53, 54, 55 within 1 Days										

Proposal 8527 - Observation 30 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 30: Chloe										Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 30:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(9)	Chloe	RA: 23 14 43.3000 (348.6804167d)								
			Dec: +59 16 35.20 (59.27644d)								
			Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module	Subarray				Target Placement					
	ALL	FULL				Module A (A3 corner)					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCAS_FULL										
	Group Observations 25, 26, 27, 28, 29, 30, 31, 53, 54, 55 within 1 Days										

Proposal 8527 - Observation 54 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 54: Juniper										Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 54:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(12)	Juniper	RA: 23 23 0.6000 (350.7525000d) Dec: +59 23 56.50 (59.39903d) Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module		Subarray				Target Placement				
	ALL		FULL				Module A (A3 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCAS_FULL										
	Group Observations 25, 26, 27, 28, 29, 30, 31, 53, 54, 55 within 1 Days										

Proposal 8527 - Observation 31 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 31: Maki									Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning									
	Observing Template: NIRCam Imaging									
Diagnostics	(Visit 31:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(10)	Maki	RA: 23 10 42.0000 (347.6750000d)							
			Dec: +59 55 18.70 (59.92186d)							
			Equinox: J2000							
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES									
Template	Module		Subarray				Target Placement			
	ALL		FULL				Module B (B4 corner)			
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size	Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD			1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936	
Special Requirements	Fiducial Point Override NRCBS_FULL									
	Group Observations 25, 26, 27, 28, 29, 30, 31, 53, 54, 55 within 1 Days									

Proposal 8527 - Observation 53 - The 3D Interstellar Medium at Milliparsec Scales: Pathbreaking Observations of Cas A Thermal Ligh...

Observation	Proposal 8527, Observation 53: NW1										Wed Jul 16 17:01:03 GMT 2025
	Diagnostic Status: Warning										
	Observing Template: NIRCam Imaging										
Diagnostics	(Visit 53:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(13)	Coriander	RA: 23 26 8.0000 (351.5333333d) Dec: +59 38 8.00 (59.63556d) Equinox: J2000								
	Comments: Category=ISM Description=[Interstellar clouds, Interstellar dust, Interstellar molecules] Extended=YES										
Template	Module		Subarray				Target Placement				
	ALL		FULL				Module B (B4 corner)				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions	
	1	INTRAMODULEX		4		STANDARD				1	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F200W	F444W	SHALLOW4	8	1	4	4	1674.936		
Special Requirements	Fiducial Point Override NRCBS_FULL 1 After 53 by 14 Days to 16 Days Group Observations 25, 26, 27, 28, 29, 30, 31, 53, 54, 55 within 1 Days										