



6511 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 microns

Cycle: 3, Proposal Category: GO

INVESTIGATORS

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JWST Proposal 6511 (Created: Thursday, November 6, 2025, 5:00:11PM Eastern Standard Time) - Overview

<i>Name</i>	<i>Institution</i>
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Iris Jermann (CoI) (ESA Member)	Technical University of Denmark-DTU Space
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Dr. Alejandro Crespo Gomez (CoI)	Space Telescope Science Institute
Dr. Alvaro Labiano (CoI) (ESA Member)	ESA, European Space Astronomy Centre
Dr. Tuomo Tikkanen (CoI) (ESA Member)	University of Leicester
Prof. Andreas Eckart (CoI) (ESA Member)	Universitat zu Koln
Dr. Florian Peissker (CoI) (ESA Member)	Universitat zu Koln
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Dr. Marianna Annunziatella (CoI) (ESA Member)	INAF - IASF Milano
Dr. Steven Richard Gillman (CoI) (ESA Member)	Technical University of Denmark-DTU Space
Dr. Daniel Dicken (CoI) (ESA Member)	United Kingdom Astronomy Technology Centre

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1	F770-O1	MIRI Imaging	(2) MIRI-XDF-1283
	2	F770-N1	MIRI Imaging	(1) MIRI-XDF-new
	3	F770-N2	MIRI Imaging	(1) MIRI-XDF-new
	4	F770-NT1	MIRI Imaging	(3) MIRI-XDF-new-tweak
	5	F770-NT2	MIRI Imaging	(3) MIRI-XDF-new-tweak
	6	F1000-N1	MIRI Imaging	(1) MIRI-XDF-new
	7	F1000-N2	MIRI Imaging	(1) MIRI-XDF-new
	8	F1000-NT1	MIRI Imaging	(3) MIRI-XDF-new-tweak
	9	F1000-NT2	MIRI Imaging	(3) MIRI-XDF-new-tweak
	10	F1000-NT3	MIRI Imaging	(3) MIRI-XDF-new-tweak
	11	F1000-N3	MIRI Imaging	(1) MIRI-XDF-new
	12	F1000-N4	MIRI Imaging	(1) MIRI-XDF-new

ABSTRACT

Despite JWST has delivered science data for just over a year, it is already changing our view of the high redshift universe, finding more distant galaxies than ever before. Among the instruments on JWST, MIRI is unique in its ability to record images at wavelengths beyond 5 micron. This means that only MIRI can study the red rest frame (>0.7 micron) for galaxies at redshifts $z>6$, and the near IR rest frame (>1 micron) for $z>4$, which are vital for determining the star formation histories and stellar masses of galaxies. NIRCam is at high redshifts restricted to the UV/blue spectral region where young massive stars dominate the spectrum. Hence, combined deep NIRCam+MIRI surveys will be powerful for tracing the evolution of the galaxy population with redshift. The Hubble Ultra Deep Field has been the target for deep NIRCAM imaging in many filters, spectroscopic surveys with NIRSPEC, and has been observed in filter F560W as part of the European MIRI GTO program. We here propose to complement the NIRCam and F560W observations with very deep F770W and F1000W imaging. This will greatly improve the ability to decipher the star formation history at $z>6$ by uniquely sampling the continuum on the red side of H-alpha, find H-alpha emitting galaxies, search for the first quiescent galaxies and separate star forming galaxies from AGN at cosmic noon. Moreover, we will study enigmatic sources that are only seen by MIRI (and not by NIRCam). Given the legacy value of the proposed observations, they would be made immediately publically available.

We add parallel NIRCam imaging in broad and medium band filters to search for high- z emission line galaxies.

OBSERVING DESCRIPTION

We require low background (10 percentile), and a V3 angle to match the orientation of the MIRI-GTO program (1283) deep F560W imaging for optimal joint coverage.

We take observations using FASTR1 readout, 100 groups per integration, and employ 10 integrations per dither position, and use the CYCLING large dither pattern, for a total of 28000 seconds per dither position.

In total we obtain 70 positions for F1000W and 50 for F770W for a total exposure time of 196 and 140 ks, respectively.

For F770W we do 10 positions at the nominal pointing (same as for existing program 1283 observations in F560W and F1000W), and 40 at a revised position 20 arcsec to west, to better capture the confirmed $z=13$ galaxy GS-z13-0. The 70 F1000W positions are also obtained at this revised position. For the revised position, two different targets are defined, 0.03 arcsec apart in Ra and Dec to improve on the PSF sampling

JWST Proposal 6511 (Created: Thursday, November 6, 2025, 5:00:11PM Eastern Standard Time) - Overview

The parallel NIRCам images falls in the parallel field of program 1283 and will employ F150W/F182M/F200W and F250M/F335M/F356W/F430M/F444W for the SW and LW channels, respectively.

Proposal 6511 - Targets - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 microns

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	MIRI-XDF-new	RA: 03 32 37.2000 (53.1550000d) Dec: -27 47 1.00 (-27.78361d) Equinox: J2000		
<i>Comments:</i> Category=Unidentified Description=[Blank field]				
(2)	MIRI-XDF-1283	RA: 03 32 39.0000 (53.1625000d) Dec: -27 47 5.00 (-27.78472d) Equinox: J2000		
<i>Comments: Nominal pointing of program 1283</i> Category=Unidentified Description=[Blank field]				
(3)	MIRI-XDF-new-tweak	RA: 03 32 37.3022 (53.1554258d) Dec: -27 47 1.03 (-27.78362d) Equinox: J2000		
<i>Comments: Target coordinate offset with 0.03 arcsec in Ra and Dec compared to MIRI-XDF-new, to facilitate finer PSF sampling</i> Category=Unidentified Description=[Blank field]				

Proposal 6511 - Observation 1 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 m...

Thu Nov 06 22:00:11 GMT 2025

Observation	Proposal 6511, Observation 1: F770-O1 Diagnostic Status: Warning Observing Template: MIRI Imaging Coordinated Parallel Template(s): NIRCam Imaging																								
Diagnostics	(Visit 1:1) Warning (Form): Data Excess over lower threshold (Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (F770-O1 (Obs 1)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																								
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>MIRI-XDF-1283</td> <td>RA: 03 32 39.0000 (53.1625000d) Dec: -27 47 5.00 (-27.78472d) Equinox: J2000</td> <td></td> <td></td> </tr> <tr> <td colspan="5"> <i>Comments: Nominal pointing of program 1283</i> <i>Category=Unidentified</i> <i>Description=[Blank field]</i> </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(2)	MIRI-XDF-1283	RA: 03 32 39.0000 (53.1625000d) Dec: -27 47 5.00 (-27.78472d) Equinox: J2000			<i>Comments: Nominal pointing of program 1283</i> <i>Category=Unidentified</i> <i>Description=[Blank field]</i>				
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Template	MIRI Imaging Subarray: FULL					NIRCam Imaging Module: ALL Subarray: FULL																			
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size															
1	CYCLING	1	10							LARGE															
Spectral Elements	MIRI Imaging	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID														
1	F770W	FASTR1	100	10	1	Dither 1	10	100	28000.154																
Spectral Elements	NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID															
1	F200W	F444W	DEEP8	7	2	20	10	27593.499																	

Proposal 6511 - Observation 1 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 m...

Special Requirements

Aperture PA Range 25.8 to 27.8 Degrees (V3 20.96455103 to 22.96455103)
No Parallel Attachments
Background Limited. Background no more than 10th percentile above minimum
Sequence Observations 1, 2, 3, 4, 5, 6 within 15 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 6511 - Observation 2 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 m...

Thu Nov 06 22:00:11 GMT 2025

Observation	Proposal 6511, Observation 2: F770-N1 Diagnostic Status: Warning Observing Template: MIRI Imaging Coordinated Parallel Template(s): NIRCam Imaging										
Diagnostics	(Visit 2:1) Warning (Form): Data Excess over lower threshold (Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (F770-N1 (Obs 2)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(1)	MIRI-XDF-new	RA: 03 32 37.2000 (53.1550000d) Dec: -27 47 1.00 (-27.78361d) Equinox: J2000								
	<i>Comments:</i> Category=Unidentified Description=[Blank field]										
Template	MIRI Imaging					NIRCam Imaging					
	Subarray: FULL					Module: ALL Subarray: FULL					
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	CYCLING	1	10						LARGE	
Spectral Elements	MIRI Imaging	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
	1	F770W	FASTR1	100	10	1	Dither 1	10	100	28000.154	
Spectral Elements	NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID	
	1	F200W	F444W	DEEP8	7	2	20	10	27593.499		

Proposal 6511 - Observation 2 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 m...

Special Requirements

No Parallel Attachments
Background Limited. Background no more than 10th percentile above minimum
Sequence Observations 1, 2, 3, 4, 5, 6 within 15 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 6511 - Observation 3 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 m...

Thu Nov 06 22:00:11 GMT 2025

Observation	Proposal 6511, Observation 3: F770-N2 Diagnostic Status: Warning Observing Template: MIRI Imaging Coordinated Parallel Template(s): NIRCcam Imaging																									
Diagnostics	(Visit 3:1) Warning (Form): Data Excess over lower threshold (Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (F770-N2 (Obs 3)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																									
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>MIRI-XDF-new</td> <td>RA: 03 32 37.2000 (53.1550000d) Dec: -27 47 1.00 (-27.78361d) Equinox: J2000</td> <td></td> <td></td> </tr> <tr> <td colspan="5"> <i>Comments:</i> Category=Unidentified Description=[Blank field] </td> </tr> </tbody> </table>											#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(1)	MIRI-XDF-new	RA: 03 32 37.2000 (53.1550000d) Dec: -27 47 1.00 (-27.78361d) Equinox: J2000			<i>Comments:</i> Category=Unidentified Description=[Blank field]				
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Template	MIRI Imaging Subarray: FULL					NIRCcam Imaging Module: ALL Subarray: FULL																				
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size																
1	CYCLING	11	10						LARGE																	
Spectral Elements	MIRI Imaging	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID															
1	F770W	FASTR1	100	10	1	Dither 1	10	100	28000.154																	
Spectral Elements	NIRCcam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID																
1	F200W	F444W	DEEP8	7	2	20	10	27593.499																		

Proposal 6511 - Observation 3 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 m...

Special Requirements

No Parallel Attachments
Background Limited. Background no more than 10th percentile above minimum
Sequence Observations 1, 2, 3, 4, 5, 6 within 15 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 6511 - Observation 4 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 m...

Thu Nov 06 22:00:11 GMT 2025

Observation	Proposal 6511, Observation 4: F770-NT1 Diagnostic Status: Warning Observing Template: MIRI Imaging Coordinated Parallel Template(s): NIRCam Imaging																									
Diagnostics	(Visit 4:1) Warning (Form): Data Excess over lower threshold (Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (F770-NT1 (Obs 4)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																									
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Template	MIRI Imaging Subarray: FULL					NIRCam Imaging Module: ALL Subarray: FULL																				
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size																
1	CYCLING	21	10						LARGE																	
Spectral Elements	MIRI Imaging	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID															
1	F770W	FASTR1	100	10	1	Dither 1	10	100	28000.154																	
Spectral Elements	NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID																
1	F200W	F444W	DEEP8	7	2	20	10	27593.499																		

Proposal 6511 - Observation 4 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 m...

Special Requirements

No Parallel Attachments
Background Limited. Background no more than 10th percentile above minimum
Sequence Observations 1, 2, 3, 4, 5, 6 within 15 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 6511 - Observation 5 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 m...

Thu Nov 06 22:00:11 GMT 2025

Observation	Proposal 6511, Observation 5: F770-NT2 Diagnostic Status: Warning Observing Template: MIRI Imaging Coordinated Parallel Template(s): NIRCam Imaging																																
	(Visit 5:1) Warning (Form): Data Excess over lower threshold (Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (F770-NT2 (Obs 5)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																
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	NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID																							
1	F200W	F444W	DEEP8	7	2	20	10	27593.499																									
Spectral Elements	<table border="1"> <thead> <tr> <th>NIRCam Imaging</th> <th>Short Filter</th> <th>Long Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Dithers</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F200W</td> <td>F444W</td> <td>DEEP8</td> <td>7</td> <td>2</td> <td>20</td> <td>10</td> <td>27593.499</td> <td></td> </tr> </tbody> </table>											NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID	1	F200W	F444W	DEEP8	7	2	20	10	27593.499			
NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID																								
1	F200W	F444W	DEEP8	7	2	20	10	27593.499																									

Proposal 6511 - Observation 5 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 m...

Special Requirements

No Parallel Attachments
Background Limited. Background no more than 10th percentile above minimum
Sequence Observations 1, 2, 3, 4, 5, 6 within 15 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 6511 - Observation 6 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 m...

Thu Nov 06 22:00:11 GMT 2025

Observation	<p>Proposal 6511, Observation 6: F1000-N1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p> <p>Coordinated Parallel Template(s): NIRCam Imaging</p> <p><i>Comments: Updated the visit planner processing dates.</i></p>																				
Diagnostics	<p>(Visit 6:1) Warning (Form): Data Excess over lower threshold</p> <p>(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(F1000-N1 (Obs 6)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>																				
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>MIRI-XDF-new</td> <td>RA: 03 32 37.2000 (53.1550000d) Dec: -27 47 1.00 (-27.78361d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments: Category=Unidentified Description=[Blank field]</i></p>											#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(1)	MIRI-XDF-new	RA: 03 32 37.2000 (53.1550000d) Dec: -27 47 1.00 (-27.78361d) Equinox: J2000		
#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																	
(1)	MIRI-XDF-new	RA: 03 32 37.2000 (53.1550000d) Dec: -27 47 1.00 (-27.78361d) Equinox: J2000																			
Template	MIRI Imaging					NIRCam Imaging															
Subarray: FULL					Module: ALL Subarray: FULL																
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size											
1	CYCLING	61	10						LARGE												
Spectral Elements	MIRI Imaging	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID										
1	F1000W	FASTR1	100	10	1	Dither 1	10	100	28000.154												
Spectral Elements	NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID											
1	F200W	F444W	DEEP8	7	2	20	10	27593.499													

Proposal 6511 - Observation 6 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 m...

Special Requirements

No Parallel Attachments
Background Limited. Background no more than 10th percentile above minimum
Sequence Observations 1, 2, 3, 4, 5, 6 within 15 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 6511 - Observation 7 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 m...

Thu Nov 06 22:00:11 GMT 2025

Observation	Proposal 6511, Observation 7: F1000-N2 Diagnostic Status: Warning Observing Template: MIRI Imaging Coordinated Parallel Template(s): NIRCam Imaging																																
	(Visit 7:1) Warning (Form): Data Excess over lower threshold (Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (F1000-N2 (Obs 7)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																
Diagnosics																																	
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>MIRI-XDF-new</td> <td>RA: 03 32 37.2000 (53.1550000d) Dec: -27 47 1.00 (-27.78361d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(1)	MIRI-XDF-new	RA: 03 32 37.2000 (53.1550000d) Dec: -27 47 1.00 (-27.78361d) Equinox: J2000																								
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																												
(1)	MIRI-XDF-new	RA: 03 32 37.2000 (53.1550000d) Dec: -27 47 1.00 (-27.78361d) Equinox: J2000																															
Comments: Category=Unidentified Description=[Blank field]																																	
Template	MIRI Imaging					NIRCam Imaging																											
	Subarray: FULL					Module: ALL Subarray: FULL																											
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Starting Point</th> <th>Number of Points</th> <th>Points</th> <th>Starting Set</th> <th>Number of Sets</th> <th>Optimized For</th> <th>Direction</th> <th>Pattern Size</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CYCLING</td> <td>11</td> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>LARGE</td> </tr> </tbody> </table>	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	1	CYCLING	11	10						LARGE												
	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size																							
1	CYCLING	11	10						LARGE																								
Spectral Elements	<table border="1"> <thead> <tr> <th>MIRI Imaging</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Dither</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F1000W</td> <td>FASTR1</td> <td>100</td> <td>10</td> <td>1</td> <td>Dither 1</td> <td>10</td> <td>100</td> <td>28000.154</td> <td></td> </tr> </tbody> </table>	MIRI Imaging	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID	1	F1000W	FASTR1	100	10	1	Dither 1	10	100	28000.154											
	MIRI Imaging	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID																						
1	F1000W	FASTR1	100	10	1	Dither 1	10	100	28000.154																								
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	NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID																							
1	F182M	F300M	DEEP8	7	2	20	10	27593.499																									

Proposal 6511 - Observation 7 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 m...

Special Requirements

No Parallel Attachments
Background Limited. Background no more than 10th percentile above minimum
Sequence Observations 7, 8, 9, 10, 11, 12 within 15 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 6511 - Observation 8 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 m...

Thu Nov 06 22:00:11 GMT 2025

Observation	Proposal 6511, Observation 8: F1000-NT1 Diagnostic Status: Warning Observing Template: MIRI Imaging Coordinated Parallel Template(s): NIRCam Imaging										
	(Visit 8:1) Warning (Form): Data Excess over lower threshold (Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (F1000-NT1 (Obs 8)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.										
Diagnosics											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(3)	MIRI-XDF-new-tweak	RA: 03 32 37.3022 (53.1554258d) Dec: -27 47 1.03 (-27.78362d) Equinox: J2000								
<i>Comments: Target coordinate offset with 0.03 arcsec in Ra and Dec compared to MIRI-XDF-new, to facilitate finer PSF sampling</i> Category=Unidentified Description=[Blank field]											
Template	MIRI Imaging					NIRCam Imaging					
	Subarray: FULL					Module: ALL Subarray: FULL					
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	CYCLING	21	10						LARGE	
Spectral Elements	MIRI Imaging	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
	1	F1000W	FASTR1	100	10	1	Dither 1	10	100	28000.154	
Spectral Elements	NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID	
	1	F182M	F300M	DEEP8	7	2	20	10	27593.499		

Proposal 6511 - Observation 8 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 m...

Special Requirements

No Parallel Attachments
Background Limited. Background no more than 10th percentile above minimum
Sequence Observations 7, 8, 9, 10, 11, 12 within 15 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 6511 - Observation 9 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 m...

Thu Nov 06 22:00:11 GMT 2025

Observation	Proposal 6511, Observation 9: F1000-NT2 Diagnostic Status: Warning Observing Template: MIRI Imaging Coordinated Parallel Template(s): NIRCam Imaging										
	(Visit 9:1) Warning (Form): Data Excess over lower threshold (Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (F1000-NT2 (Obs 9)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.										
Diagnosics											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(3)	MIRI-XDF-new-tweak	RA: 03 32 37.3022 (53.1554258d) Dec: -27 47 1.03 (-27.78362d) Equinox: J2000 <i>Comments: Target coordinate offset with 0.03 arcsec in Ra and Dec compared to MIRI-XDF-new, to facilitate finer PSF sampling</i> <i>Category=Unidentified</i> <i>Description=[Blank field]</i>								
Template	MIRI Imaging					NIRCam Imaging					
	Subarray: FULL					Module: ALL Subarray: FULL					
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	CYCLING	31	10						LARGE	
Spectral Elements	MIRI Imaging	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
	1	F1000W	FASTR1	100	10	1	Dither 1	10	100	28000.154	
Spectral Elements	NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID	
	1	F182M	F410M	DEEP8	7	2	20	10	27593.499		

Proposal 6511 - Observation 9 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 m...

Special Requirements

No Parallel Attachments
Background Limited. Background no more than 10th percentile above minimum
Sequence Observations 7, 8, 9, 10, 11, 12 within 15 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 6511 - Observation 10 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 ...

Thu Nov 06 22:00:11 GMT 2025

Observation	Proposal 6511, Observation 10: F1000-NT3 Diagnostic Status: Warning Observing Template: MIRI Imaging Coordinated Parallel Template(s): NIRCam Imaging																									
Diagnostics	(Visit 10:1) Warning (Form): Data Excess over lower threshold (Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (F1000-NT3 (Obs 10)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																									
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>MIRI-XDF-new-tweak</td> <td>RA: 03 32 37.3022 (53.1554258d) Dec: -27 47 1.03 (-27.78362d) Equinox: J2000</td> <td></td> <td></td> </tr> <tr> <td colspan="5"> <i>Comments: Target coordinate offset with 0.03 arcsec in Ra and Dec compared to MIRI-XDF-new, to facilitate finer PSF sampling</i> Category=Unidentified Description=[Blank field] </td> </tr> </tbody> </table>											#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(3)	MIRI-XDF-new-tweak	RA: 03 32 37.3022 (53.1554258d) Dec: -27 47 1.03 (-27.78362d) Equinox: J2000			<i>Comments: Target coordinate offset with 0.03 arcsec in Ra and Dec compared to MIRI-XDF-new, to facilitate finer PSF sampling</i> Category=Unidentified Description=[Blank field]				
#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																						
(3)	MIRI-XDF-new-tweak	RA: 03 32 37.3022 (53.1554258d) Dec: -27 47 1.03 (-27.78362d) Equinox: J2000																								
<i>Comments: Target coordinate offset with 0.03 arcsec in Ra and Dec compared to MIRI-XDF-new, to facilitate finer PSF sampling</i> Category=Unidentified Description=[Blank field]																										
Template	MIRI Imaging Subarray: FULL					NIRCam Imaging Module: ALL Subarray: FULL																				
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size																
1	CYCLING	41	10						LARGE																	
Spectral Elements	MIRI Imaging	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID															
1	F1000W	FASTR1	100	10	1	Dither 1	10	100	28000.154																	
Spectral Elements	NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID																
1	F210M	F410M	DEEP8	7	2	20	10	27593.499																		

Proposal 6511 - Observation 10 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 ...

Special Requirements

No Parallel Attachments
Background Limited. Background no more than 10th percentile above minimum
Sequence Observations 7, 8, 9, 10, 11, 12 within 15 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 6511 - Observation 11 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 ...

Thu Nov 06 22:00:11 GMT 2025

Observation	Proposal 6511, Observation 11: F1000-N3 Diagnostic Status: Warning Observing Template: MIRI Imaging Coordinated Parallel Template(s): NIRCam Imaging																																											
Diagnostics	(Visit 11:1) Warning (Form): Data Excess over lower threshold (Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (F1000-N3 (Obs 11)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																											
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>MIRI-XDF-new</td> <td>RA: 03 32 37.2000 (53.1550000d) Dec: -27 47 1.00 (-27.78361d) Equinox: J2000</td> <td colspan="4"></td> <td colspan="4"></td> </tr> <tr> <td colspan="11"> <i>Comments:</i> <i>Category=Unidentified</i> <i>Description=[Blank field]</i> </td> </tr> </tbody> </table>											#	Name	Target Coordinates	Targ. Coord. Corrections				Miscellaneous				(1)	MIRI-XDF-new	RA: 03 32 37.2000 (53.1550000d) Dec: -27 47 1.00 (-27.78361d) Equinox: J2000									<i>Comments:</i> <i>Category=Unidentified</i> <i>Description=[Blank field]</i>										
#	Name	Target Coordinates	Targ. Coord. Corrections				Miscellaneous																																					
(1)	MIRI-XDF-new	RA: 03 32 37.2000 (53.1550000d) Dec: -27 47 1.00 (-27.78361d) Equinox: J2000																																										
<i>Comments:</i> <i>Category=Unidentified</i> <i>Description=[Blank field]</i>																																												
Template	MIRI Imaging Subarray: FULL					NIRCam Imaging Module: ALL Subarray: FULL																																						
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size																																		
1	CYCLING	51	10						LARGE																																			
Spectral Elements	MIRI Imaging	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID																																	
1	F1000W	FASTR1	100	10	1	Dither 1	10	100	28000.154																																			
Spectral Elements	NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID																																		
1	F210M	F410M	DEEP8	7	2	20	10	27593.499																																				

Proposal 6511 - Observation 11 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 ...

Special Requirements

No Parallel Attachments
Background Limited. Background no more than 10th percentile above minimum
Sequence Observations 7, 8, 9, 10, 11, 12 within 15 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 6511 - Observation 12 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 ...

Thu Nov 06 22:00:11 GMT 2025

Observation	Proposal 6511, Observation 12: F1000-N4 Diagnostic Status: Warning Observing Template: MIRI Imaging Coordinated Parallel Template(s): NIRCam Imaging																									
Diagnostics	(Visit 12:1) Warning (Form): Data Excess over lower threshold (Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (F1000-N4 (Obs 12)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																									
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>MIRI-XDF-new</td> <td>RA: 03 32 37.2000 (53.1550000d) Dec: -27 47 1.00 (-27.78361d) Equinox: J2000</td> <td></td> <td></td> </tr> <tr> <td colspan="5"> <i>Comments:</i> Category=Unidentified Description=[Blank field] </td> </tr> </tbody> </table>											#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(1)	MIRI-XDF-new	RA: 03 32 37.2000 (53.1550000d) Dec: -27 47 1.00 (-27.78361d) Equinox: J2000			<i>Comments:</i> Category=Unidentified Description=[Blank field]				
#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																						
(1)	MIRI-XDF-new	RA: 03 32 37.2000 (53.1550000d) Dec: -27 47 1.00 (-27.78361d) Equinox: J2000																								
<i>Comments:</i> Category=Unidentified Description=[Blank field]																										
Template	MIRI Imaging Subarray: FULL					NIRCam Imaging Module: ALL Subarray: FULL																				
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size																
1	CYCLING	1	10							LARGE																
Spectral Elements	MIRI Imaging	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID															
1	F1000W	FASTR1	100	10	1	Dither 1	10	100	28000.154																	
Spectral Elements	NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID																
1	F210M	F410M	DEEP8	7	2	20	10	27593.499																		

Proposal 6511 - Observation 12 - Galaxy mass buildup in the early universe - ultra deep imaging of the Hubble Ultra Deep Field to 10 ...

Special Requirements

No Parallel Attachments
Background Limited. Background no more than 10th percentile above minimum
Sequence Observations 7, 8, 9, 10, 11, 12 within 15 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12