



3034 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

Cycle: 2, Proposal Category: GO

INVESTIGATORS

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Dr. Benoit Tabone (CoI) (ESA Member)	Institut d'Astrophysique Spatiale

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Ophiuchus_sources				
	1	Oph1	MIRI Medium Resolution Spectroscopy	(1) OPH-1-GY92
	2	Oph2	MIRI Medium Resolution Spectroscopy	(2) OPH-2-J1627-2420
	3	Oph3	MIRI Medium Resolution Spectroscopy	(3) OPH-3-WL3
	4	Oph4	MIRI Medium Resolution Spectroscopy	(4) OPH-4-ELIA-2-32
	5	Oph5	MIRI Medium Resolution Spectroscopy	(5) OPH-5-GY92-301
	6	Oph6	MIRI Medium Resolution Spectroscopy	(6) OPH-6-GY92-312
	7	Oph7	MIRI Medium Resolution Spectroscopy	(7) OPH-7-IRAS-16285-2355
	8	Oph8	MIRI Medium Resolution Spectroscopy	(8) OPH-8-J16230544-2302566
	9	Oph9	MIRI Medium Resolution Spectroscopy	(9) OPH-9-GY92-33
	37	Oph9-BKG	MIRI Medium Resolution Spectroscopy	(39) OPH-9-GY92-33-BKG
	10	Oph10	MIRI Medium Resolution Spectroscopy	(10) OPH-10-BBRCG-39
Lupus_sources				
	11	Lupus1-8-group	MIRI Medium Resolution Spectroscopy	(49) Group LUPUS1-8-GROUP
	12	Lupus3	MIRI Medium Resolution Spectroscopy	(12) LUPUS-3-UCAC3-104-204438
	13	Lupus4	MIRI Medium Resolution Spectroscopy	(13) LUPUS-4-V-HM-LUP
	14	Lupus5	MIRI Medium Resolution Spectroscopy	(14) LUPUS-5-SZ-77
	15	Lupus6	MIRI Medium Resolution Spectroscopy	(15) LUPUS-6-J16085324-3914401
	16	Lupus7	MIRI Medium Resolution Spectroscopy	(16) LUPUS-7-SZ-131
	18	Lupus9	MIRI Medium Resolution Spectroscopy	(18) LUPUS-9-SZ-95
UpperSco_sources				
	19	UppSco1	MIRI Medium Resolution Spectroscopy	(19) UPPSCO-1-J16120668-3010270
	20	UppSco2	MIRI Medium Resolution Spectroscopy	(20) UPPSCO-2-J1605-2023
	21	UppSco3	MIRI Medium Resolution Spectroscopy	(21) UPPSCO-3-J1602-2257
	22	UppSco4	MIRI Medium Resolution Spectroscopy	(22) UPPSCO-4-J1611-1918
	23	UppSco5	MIRI Medium Resolution Spectroscopy	(23) UPPSCO-5-J1614-2332
	24	UppSco6	MIRI Medium Resolution Spectroscopy	(24) UPPSCO-6-J1616-2521
	25	UppSco7	MIRI Medium Resolution Spectroscopy	(25) UPPSCO-7-J1620-2442
	26	UppSco8	MIRI Medium Resolution Spectroscopy	(26) UPPSCO-8-J1622-2511
	27	UppSco9	MIRI Medium Resolution Spectroscopy	(27) UPPSCO-9-J1608-1930
	28	UppSco10	MIRI Medium Resolution Spectroscopy	(28) UPPSCO-10-J1609-1908

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Asteroid Calibrator				
	39	515 Athalia	MIRI Medium Resolution Spectroscopy	(50) 515-Athalia

ABSTRACT

We propose a JWST-MIRI program to systematically trace the chemical evolution over the lifetime of planet-forming disks, using the complete sample of 30 disks recently observed by the ALMA survey of Gas Evolution in Protoplanetary disks (AGE-PRO, 103h). This sample is the first systematically selected sample to study gas properties at three key evolutionary phases of planet-forming disks: the embedded disk phase, the middle age, and the end of the disk lifetime. The ALMA observations uniquely determine the mass distributions and chemical structures of the outer disk region (>20 au). JWST MIRI spectra will constrain the abundances of the main volatiles (e.g., H₂O, CO, CO₂) in the terrestrial-planet forming region (<10au). By combining JWST/ALMA observations of the full-age-range sample, this program will provide the very first answers to two fundamental questions of the chemical evolution during planet formation: (1) How do the volatile budgets in the gas of the terrestrial-planet-forming region evolve over the disk lifetime? (2) How do pebble growth and drift affect volatile compositions in the inner and outer regions of planet-forming disks? The results will be a key legacy dataset to test theories of chemical evolution in planet formation, and provide an essential context to link the atmospheric compositions of exoplanets to their formation and migration history.

OBSERVING DESCRIPTION

This program observes molecular emission from protoplanetary disks in the ALMA AGE-PRO survey of gas evolution in protoplanetary disks. We target 28 out of the 30 disks in the AGE-PRO program, as two of the disks have been covered by an MIRI GTO disk program with similar sensitivity requested here. All observations are obtained with MIRI-MRS across the full wavelength range, to observe molecular lines from abundant volatile species (e.g., H₂O, CO, CO₂, HCN, C₂H₂). We aim for SNRs of 100-200 at the 22 μ m, to firmly detect known molecular tracers and have good constraints on optically thin lines. We expect 18 Class II disks to be unresolved, and therefore we choose the standard 4-point dither for point sources. We request the observation of an asteroid to precisely remove the MRS fringes, as described in Pontoppidan et al. 2023. The asteroid calibrator is requested in the spring 2024 window to be applicable to the full science sample in Cycle 2.

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#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	OPH-1-GY92	RA: 16 26 23.5798 (246.5982492d) Dec: -24 24 39.50 (-24.41097d) Equinox: J2000	Epoch of Position: 2015.5	
<i>Comments: Ophiuchus_1</i> Category=Star Description=[Protoplanetary disks, Protostars] Extended=YES				
(2)	OPH-2-J1627-2420	RA: 16 27 3.5909 (246.7649621d) Dec: -24 20 5.45 (-24.33485d) Equinox: J2000	Epoch of Position: 2015.5	
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Ophiuchus_2 Category=Star Description=[Protoplanetary disks, Protostars]				
(3)	OPH-3-WL3	RA: 16 27 19.2105 (246.8300437d) Dec: -24 28 44.31 (-24.47897d) Equinox: J2000	Proper Motion RA: -3.442794445294622E-4 sec of time/yr Proper Motion Dec: -0.029200000062701292 arcsec/yr Epoch of Position: 2015.5	
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks, Protostars]				
(4)	OPH-4-ELIA-2-32	RA: 16 27 28.4458 (246.8685242d) Dec: -24 27 21.03 (-24.45584d) Equinox: J2000	Epoch of Position: 2015.5	
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks, Protostars]				
(5)	OPH-5-GY92-301	RA: 16 27 37.2494 (246.9052058d) Dec: -24 42 38.02 (-24.71056d) Equinox: J2000	Epoch of Position: 2015.5	
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks, Protostars]				
(6)	OPH-6-GY92-312	RA: 16 27 38.9417 (246.9122571d) Dec: -24 40 20.93 (-24.67248d) Equinox: J2000	Proper Motion RA: -1.8341042966958765E-4 sec of time/yr Proper Motion Dec: -0.016699999923730502 arcsec/yr Epoch of Position: 2015.5	
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks, Protostars]				
(7)	OPH-7-IRAS-16285-2355	RA: 16 31 35.6575 (247.8985729d) Dec: -24 01 29.47 (-24.02485d) Equinox: J2000	Epoch of Position: 2015.5	
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks, Protostars]				

Fixed Targets

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(8)	OPH-8-J16230544-2302566	RA: 16 23 5.4219 (245.7725912d) Dec: -23 02 57.45 (-23.04929d) Equinox: J2000	Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks, Protostars]</p>			
(9)	OPH-9-GY92-33	RA: 16 26 27.5391 (246.6147462d) Dec: -24 41 53.89 (-24.69830d) Equinox: J2000	Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks, Protostars]</p>			
(10)	OPH-10-BBRCG-39	RA: 16 27 18.3746 (246.8265608d) Dec: -24 39 15.05 (-24.65418d) Equinox: J2000	Proper Motion RA: -3.7410240662606313E-4 sec of time/yr Proper Motion Dec: -0.02360000000862783 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks, Protostars]</p>			
(11)	LUPUS-1-SZ65	RA: 15 39 27.7550 (234.8656458d) Dec: -34 46 17.55 (-34.77154d) Equinox: J2000	Proper Motion RA: -0.0010727600012357525 sec of time/yr Proper Motion Dec: -0.022121000097286014 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO</p>			
(12)	LUPUS-3-UCAC3-104-204438	RA: 16 12 43.7388 (243.1822450d) Dec: -38 15 3.42 (-38.25095d) Equinox: J2000	Proper Motion RA: -7.215015880775666E-4 sec of time/yr Proper Motion Dec: -0.022412999942389433 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO</p>			
(13)	LUPUS-4-V-HM-LUP	RA: 15 47 50.6110 (236.9608792d) Dec: -35 28 35.76 (-35.47660d) Equinox: J2000	Proper Motion RA: -0.0011533906352368174 sec of time/yr Proper Motion Dec: -0.023194999994302634 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO</p>			
(14)	LUPUS-5-SZ-77	RA: 15 51 46.9421 (237.9455921d) Dec: -35 56 44.49 (-35.94569d) Equinox: J2000	Proper Motion RA: -0.001033465623354674 sec of time/yr Proper Motion Dec: -0.024183000050470582 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO</p>			

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(15)	LUPUS-6-J16085324-3914401	RA: 16 08 53.2281 (242.2217837d) Dec: -39 14 40.53 (-39.24459d) Equinox: J2000	Proper Motion RA: -9.050696518070413E-4 sec of time/yr Proper Motion Dec: -0.02379900001869828 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO</p>			
(16)	LUPUS-7-SZ-131	RA: 16 00 49.4181 (240.2059087d) Dec: -41 30 4.29 (-41.50119d) Equinox: J2000	Proper Motion RA: -9.85746177264701E-4 sec of time/yr Proper Motion Dec: -0.023807999923519674 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO</p>			
(17)	LUPUS-8-SZ-66	RA: 15 39 28.2664 (234.8677767d) Dec: -34 46 18.42 (-34.77178d) Equinox: J2000	Proper Motion RA: -0.001065134161066657 sec of time/yr Proper Motion Dec: -0.02180700000735669 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO</p>			
(18)	LUPUS-9-SZ-95	RA: 16 07 52.2969 (241.9679038d) Dec: -38 58 6.45 (-38.96846d) Equinox: J2000	Proper Motion RA: -9.095052867484856E-4 sec of time/yr Proper Motion Dec: -0.023424999949384073 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO</p>			
(19)	UPPSCO-1-J16120668-3010270	RA: 16 12 6.6647 (243.0277696d) Dec: -30 10 27.50 (-30.17431d) Equinox: J2000	Proper Motion RA: -9.82918488272127E-4 sec of time/yr Proper Motion Dec: -0.02697199995509436 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO</p>			
(20)	UPPSCO-2-J1605-2023	RA: 16 05 45.3870 (241.4391125d) Dec: -20 23 9.17 (-20.38588d) Equinox: J2000	Proper Motion RA: -8.067270361735837E-4 sec of time/yr Proper Motion Dec: -0.023054999905980367 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO</p>			

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(21)	UPPSCO-3-J1602-2257	RA: 16 02 7.5631 (240.5315129d) Dec: -22 57 47.27 (-22.96313d) Equinox: J2000	Proper Motion RA: -8.760915857273492E-4 sec of time/yr Proper Motion Dec: -0.02502899990304286 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO</p>			
(22)	UPPSCO-4-J1611-1918	RA: 16 11 17.4104 (242.8225433d) Dec: -19 18 29.06 (-19.30807d) Equinox: J2000	Proper Motion RA: -6.471316549750339E-4 sec of time/yr Proper Motion Dec: -0.024457000085931213 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO</p>			
(23)	UPPSCO-5-J1614-2332	RA: 16 14 50.2540 (243.7093917d) Dec: -23 32 40.07 (-23.54446d) Equinox: J2000	Proper Motion RA: -6.868463889738323E-4 sec of time/yr Proper Motion Dec: -0.024844999938977708 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO</p>			
(24)	UPPSCO-6-J1616-2521	RA: 16 16 33.4350 (244.1393125d) Dec: -25 21 51.01 (-25.36417d) Equinox: J2000	Proper Motion RA: -7.625027019945745E-4 sec of time/yr Proper Motion Dec: -0.022766000029150746 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO</p>			
(25)	UPPSCO-7-J1620-2442	RA: 16 20 28.6272 (245.1192800d) Dec: -24 42 9.04 (-24.70251d) Equinox: J2000	Proper Motion RA: -7.005031336004114E-4 sec of time/yr Proper Motion Dec: -0.020345999905657663 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO</p>			
(26)	UPPSCO-8-J1622-2511	RA: 16 22 15.3268 (245.5638617d) Dec: -25 11 35.49 (-25.19319d) Equinox: J2000	Proper Motion RA: -4.5899391662191584E-4 sec of time/yr Proper Motion Dec: -0.027117999979964225 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO</p>			

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	(27)	UPPSCO-9-J1608-1930	RA: 16 08 23.2332 (242.0968050d) Dec: -19 30 1.33 (-19.50037d) Equinox: J2000	Proper Motion RA: -8.795870199753587E-4 sec of time/yr Proper Motion Dec: -0.022476999947684817 arcsec/yr Epoch of Position: 2015.5	
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO</p>				
	(28)	UPPSCO-10-J1609-1908	RA: 16 09 0.7490 (242.2531208d) Dec: -19 08 53.07 (-19.14808d) Equinox: J2000	Proper Motion RA: -6.615333105779053E-4 sec of time/yr Proper Motion Dec: -0.025121000089711742 arcsec/yr Epoch of Position: 2015.5	
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO</p>				
	(39)	OPH-9-GY92-33-BKG	RA: 16 26 26.5391 (246.6105796d) Dec: -24 41 53.89 (-24.69830d) Equinox: J2000	Epoch of Position: 2015.5	
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks, Protostars]</p>				
	(49)	Group LUPUS1-8-GROUP			
	<p><i>Comments:</i> Target Selection=[11 LUPUS-1-SZ65, 17 LUPUS-8-SZ-66]</p>				
Solar System Targets	#	Name	Level 1	Level 2	Level 3
	(50)	515-Athalia	TYPE=ASTEROID,A=3.127753669836518,E=0.1705563247734848,I=2.038215548285241,O=121.2102641330697,W=300.0403671552252,M=66.71360659269416,EQUINOX=J2000,EPOCH=14-DEC-2015:00:00:00,EpochTimeScale=TDB		
	<i>Comments: Extended=NO</i>				

Proposal 3034 - Observation 1 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

Fri Dec 15 00:00:17 GMT 2023

Observation	Proposal 3034, Observation 1: Oph1 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(1)	OPH-1-GY92	RA: 16 26 23.5798 (246.5982492d) Dec: -24 24 39.50 (-24.41097d) Equinox: J2000			Epoch of Position: 2015.5							
<i>Comments: Ophichus_1</i> <i>Category=Star</i> <i>Description=[Protoplanetary disks, Protostars]</i> <i>Extended=YES</i>													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	1 OPH-1-GY92	FND	FAST	4	1	1	11.1	138436				
Template	Primary Channel		Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
	All MRS		YES			FULL			NEUTRAL				
Dithers	#	Dither Type			Optimized For			Direction					
	1	4-Point			POINT SOURCE			NEGATIVE					
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	20	2	1	Dither 1	4	8	455.107	
	1	SHORT(A)	MRSLONG		FASTR1	20	2	1	Dither 1	4	8	455.107	
	1	SHORT(A)	MRSSHORT		FASTR1	20	2	1	Dither 1	4	8	455.107	
	2		IMAGER	F770W	FASTR1	20	2	1	Dither 1	4	8	455.107	
	2	MEDIUM(B)	MRSLONG		FASTR1	20	2	1	Dither 1	4	8	455.107	
	2	MEDIUM(B)	MRSSHORT		FASTR1	20	2	1	Dither 1	4	8	455.107	
	3		IMAGER	F770W	FASTR1	20	2	1	Dither 1	4	8	455.107	
	3	LONG(C)	MRSLONG		FASTR1	20	2	1	Dither 1	4	8	455.107	
	3	LONG(C)	MRSSHORT		FASTR1	20	2	1	Dither 1	4	8	455.107	

Proposal 3034 - Observation 2 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

Fri Dec 15 00:00:17 GMT 2023

Observation	Proposal 3034, Observation 2: Oph2 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(2)	OPH-2-J1627-2420	RA: 16 27 3.5909 (246.7649621d) Dec: -24 20 5.45 (-24.33485d) Equinox: J2000			Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Ophiuchus_2</i> <i>Category=Star</i> <i>Description=[Protoplanetary disks, Protostars]</i>													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	2 OPH-2-J1627-2420	FND	FAST	10	1	1	27.75	138698				
Template	Primary Channel		Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
	All MRS		YES			FULL			NEUTRAL				
Dithers	#	Dither Type			Optimized For			Direction					
	1	4-Point			POINT SOURCE			NEGATIVE					
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	1	SHORT(A)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	1	SHORT(A)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	2		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	2	MEDIUM(B)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	2	MEDIUM(B)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	3		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	3	LONG(C)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	3	LONG(C)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	

Proposal 3034 - Observation 3 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

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Observation	Proposal 3034, Observation 3: Oph3 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(3)	OPH-3-WL3	RA: 16 27 19.2105 (246.8300437d) Dec: -24 28 44.31 (-24.47897d) Equinox: J2000			Proper Motion RA: -3.442794445294622E-4 sec of time/yr Proper Motion Dec: -0.029200000062701292 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks, Protostars]													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	3 OPH-3-WL3	FND	FAST	4	1	1	11.1	138694				
Template	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction			
	All MRS			YES			FULL			NEUTRAL			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	30	2	1	Dither 1	4	8	677.11	
	1	SHORT(A)	MRSLONG		FASTR1	30	2	1	Dither 1	4	8	677.11	
	1	SHORT(A)	MRSSHORT		FASTR1	30	2	1	Dither 1	4	8	677.11	
	2		IMAGER	F770W	FASTR1	30	2	1	Dither 1	4	8	677.11	
	2	MEDIUM(B)	MRSLONG		FASTR1	30	2	1	Dither 1	4	8	677.11	
	2	MEDIUM(B)	MRSSHORT		FASTR1	30	2	1	Dither 1	4	8	677.11	
	3		IMAGER	F770W	FASTR1	30	2	1	Dither 1	4	8	677.11	
	3	LONG(C)	MRSLONG		FASTR1	30	2	1	Dither 1	4	8	677.11	
	3	LONG(C)	MRSSHORT		FASTR1	30	2	1	Dither 1	4	8	677.11	

Proposal 3034 - Observation 4 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

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Observation	Proposal 3034, Observation 4: Oph4 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(4)	OPH-4-ELIA-2-32	RA: 16 27 28.4458 (246.8685242d) Dec: -24 27 21.03 (-24.45584d) Equinox: J2000				Epoch of Position: 2015.5						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks, Protostars]													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	4 OPH-4-ELIA-2-32	FND	FAST	4	1	1	11.1	138436				
Template	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction			
	All MRS			YES			FULL			NEUTRAL			
Dithers	#	Dither Type				Optimized For			Direction				
	1	4-Point				POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	20	3	1	Dither 1	4	12	688.21	
	1	SHORT(A)	MRSLONG		FASTR1	20	3	1	Dither 1	4	12	688.21	
	1	SHORT(A)	MRSSHORT		FASTR1	20	3	1	Dither 1	4	12	688.21	
	2		IMAGER	F770W	FASTR1	20	3	1	Dither 1	4	12	688.21	
	2	MEDIUM(B)	MRSLONG		FASTR1	20	3	1	Dither 1	4	12	688.21	
	2	MEDIUM(B)	MRSSHORT		FASTR1	20	3	1	Dither 1	4	12	688.21	
	3		IMAGER	F770W	FASTR1	20	3	1	Dither 1	4	12	688.21	
	3	LONG(C)	MRSLONG		FASTR1	20	3	1	Dither 1	4	12	688.21	
	3	LONG(C)	MRSSHORT		FASTR1	20	3	1	Dither 1	4	12	688.21	

Proposal 3034 - Observation 5 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

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Observation	Proposal 3034, Observation 5: Oph5 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(5)	OPH-5-GY92-301	RA: 16 27 37.2494 (246.9052058d) Dec: -24 42 38.02 (-24.71056d) Equinox: J2000				Epoch of Position: 2015.5						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks, Protostars]													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	5 OPH-5-GY92-301	FND	FAST	4	1	1	11.1	138694				
Template	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction			
	All MRS			YES			FULL			NEUTRAL			
Dithers	#	Dither Type				Optimized For			Direction				
	1	4-Point				POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	20	3	1	Dither 1	4	12	688.21	
	1	SHORT(A)	MRSLONG		FASTR1	20	3	1	Dither 1	4	12	688.21	
	1	SHORT(A)	MRSSHORT		FASTR1	20	3	1	Dither 1	4	12	688.21	
	2		IMAGER	F770W	FASTR1	20	3	1	Dither 1	4	12	688.21	
	2	MEDIUM(B)	MRSLONG		FASTR1	20	3	1	Dither 1	4	12	688.21	
	2	MEDIUM(B)	MRSSHORT		FASTR1	20	3	1	Dither 1	4	12	688.21	
	3		IMAGER	F770W	FASTR1	20	3	1	Dither 1	4	12	688.21	
	3	LONG(C)	MRSLONG		FASTR1	20	3	1	Dither 1	4	12	688.21	
	3	LONG(C)	MRSSHORT		FASTR1	20	3	1	Dither 1	4	12	688.21	

Proposal 3034 - Observation 6 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

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Observation	Proposal 3034, Observation 6: Oph6 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(6)	OPH-6-GY92-312	RA: 16 27 38.9417 (246.9122571d) Dec: -24 40 20.93 (-24.67248d) Equinox: J2000			Proper Motion RA: -1.8341042966958765E-4 sec of time/yr Proper Motion Dec: -0.016699999923730502 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks, Protostars]													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	6 OPH-6-GY92-312	FND	FAST	4	1	1	11.1	138694				
Template	Primary Channel		Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
	All MRS		YES			FULL			NEUTRAL				
Dithers	#	Dither Type			Optimized For			Direction					
	1	4-Point			POINT SOURCE			NEGATIVE					
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	20	3	1	Dither 1	4	12	688.21	
	1	SHORT(A)	MRSLONG		FASTR1	20	3	1	Dither 1	4	12	688.21	
	1	SHORT(A)	MRSSHORT		FASTR1	20	3	1	Dither 1	4	12	688.21	
	2		IMAGER	F770W	FASTR1	20	3	1	Dither 1	4	12	688.21	
	2	MEDIUM(B)	MRSLONG		FASTR1	20	3	1	Dither 1	4	12	688.21	
	2	MEDIUM(B)	MRSSHORT		FASTR1	20	3	1	Dither 1	4	12	688.21	
	3		IMAGER	F770W	FASTR1	20	3	1	Dither 1	4	12	688.21	
	3	LONG(C)	MRSLONG		FASTR1	20	3	1	Dither 1	4	12	688.21	
	3	LONG(C)	MRSSHORT		FASTR1	20	3	1	Dither 1	4	12	688.21	

Proposal 3034 - Observation 7 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

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Observation	Proposal 3034, Observation 7: Oph7 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(7)	OPH-7-IRAS-16285-2355	RA: 16 31 35.6575 (247.8985729d) Dec: -24 01 29.47 (-24.02485d) Equinox: J2000			Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks, Protostars]													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	7 OPH-7-IRAS-16285-2355	FND	FAST	4	1	1	11.1	138724				
Template	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction			
	All MRS			YES			FULL			NEUTRAL			
Dithers	#	Dither Type				Optimized For			Direction				
	1	4-Point				POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	1	SHORT(A)	MRSLONG		FASTR1	10	3	1	Dither 1	4	12	355.205	
	1	SHORT(A)	MRSSHORT		FASTR1	10	3	1	Dither 1	4	12	355.205	
	2		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	2	MEDIUM(B)	MRSLONG		FASTR1	10	3	1	Dither 1	4	12	355.205	
	2	MEDIUM(B)	MRSSHORT		FASTR1	10	3	1	Dither 1	4	12	355.205	
	3		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	3	LONG(C)	MRSLONG		FASTR1	10	3	1	Dither 1	4	12	355.205	
	3	LONG(C)	MRSSHORT		FASTR1	10	3	1	Dither 1	4	12	355.205	

Proposal 3034 - Observation 8 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

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Observation	Proposal 3034, Observation 8: Oph8 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(8)	OPH-8-J16230544-2302566	RA: 16 23 5.4219 (245.7725912d) Dec: -23 02 57.45 (-23.04929d) Equinox: J2000				Epoch of Position: 2015.5						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks, Protostars]													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	8 OPH-8-J16230544-2302566	FND	FAST	10	1	1	27.75	138698				
Template	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction			
	All MRS			YES			FULL			NEUTRAL			
Dithers	#	Dither Type				Optimized For			Direction				
	1	4-Point				POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	1	SHORT(A)	MRSLONG		FASTR1	40	3	1	Dither 1	4	12	1354.22	
	1	SHORT(A)	MRSSHORT		FASTR1	40	3	1	Dither 1	4	12	1354.22	
	2		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	2	MEDIUM(B)	MRSLONG		FASTR1	40	3	1	Dither 1	4	12	1354.22	
	2	MEDIUM(B)	MRSSHORT		FASTR1	40	3	1	Dither 1	4	12	1354.22	
	3		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	3	LONG(C)	MRSLONG		FASTR1	40	3	1	Dither 1	4	12	1354.22	
	3	LONG(C)	MRSSHORT		FASTR1	40	3	1	Dither 1	4	12	1354.22	

Proposal 3034 - Observation 9 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

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Observation	Proposal 3034, Observation 9: Oph9 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(9)	OPH-9-GY92-33	RA: 16 26 27.5391 (246.6147462d) Dec: -24 41 53.89 (-24.69830d) Equinox: J2000			Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks, Protostars]													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	9 OPH-9-GY92-33	FND	FAST	4	1	1	11.1	147391				
Template	Primary Channel		Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
	All MRS		YES			FULL			NEUTRAL				
Dithers	#	Dither Type			Optimized For			Direction					
	1	4-Point			POINT SOURCE			NEGATIVE					
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	30	2	1	Dither 1	4	8	677.11	
	1	LONG(C)	MRSLONG		FASTR1	30	2	1	Dither 1	4	8	677.11	
	1	LONG(C)	MRSSHORT		FASTR1	30	2	1	Dither 1	4	8	677.11	
	2		IMAGER	F770W	FASTR1	30	2	1	Dither 1	4	8	677.11	
	2	MEDIUM(B)	MRSLONG		FASTR1	30	2	1	Dither 1	4	8	677.11	
	2	MEDIUM(B)	MRSSHORT		FASTR1	30	2	1	Dither 1	4	8	677.11	
	3		IMAGER	F770W	FASTR1	30	2	1	Dither 1	4	8	677.11	
	3	SHORT(A)	MRSLONG		FASTR1	30	2	1	Dither 1	4	8	677.11	
	3	SHORT(A)	MRSSHORT		FASTR1	30	2	1	Dither 1	4	8	677.11	

Proposal 3034 - Observation 9 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

Special Requirements

Sequence Observations 9, 37, Non-interruptible

Proposal 3034 - Observation 37 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

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Observation	Proposal 3034, Observation 37: Oph9-BKG Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 37:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(39)	OPH-9-GY92-33-BKG	RA: 16 26 26.5391 (246.6105796d) Dec: -24 41 53.89 (-24.69830d) Equinox: J2000				Epoch of Position: 2015.5						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[Protoplanetary disks, Protostars]</i>													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
	FND	All MRS			YES			FULL		NEUTRAL			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	30	2	1	None	1	2	169.277	
	1	LONG(C)	MRSLONG		FASTR1	30	2	1	None	1	2	169.277	
	1	LONG(C)	MRSSHORT		FASTR1	30	2	1	None	1	2	169.277	
	2		IMAGER	F770W	FASTR1	30	2	1	None	1	2	169.277	
	2	MEDIUM(B)	MRSLONG		FASTR1	30	2	1	None	1	2	169.277	
	2	MEDIUM(B)	MRSSHORT		FASTR1	30	2	1	None	1	2	169.277	
	3		IMAGER	F770W	FASTR1	30	2	1	None	1	2	169.277	
	3	SHORT(A)	MRSLONG		FASTR1	30	2	1	None	1	2	169.277	
	3	SHORT(A)	MRSSHORT		FASTR1	30	2	1	None	1	2	169.277	

Proposal 3034 - Observation 37 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

Special Requirements

Sequence Observations 9, 37, Non-interruptible

Proposal 3034 - Observation 10 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

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Observation	Proposal 3034, Observation 10: Oph10 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(10)	OPH-10-BBRCG-39	RA: 16 27 18.3746 (246.8265608d) Dec: -24 39 15.05 (-24.65418d) Equinox: J2000			Proper Motion RA: -3.7410240662606313E-4 sec of time/yr Proper Motion Dec: -0.02360000000862783 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks, Protostars]													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	10 OPH-10-BBRCG-39	FND	FAST	4	1	1	11.1	147391				
Template	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction			
	All MRS			YES			FULL			NEUTRAL			
Dithers	#	Dither Type			Optimized For			Direction					
	1	4-Point			POINT SOURCE			NEGATIVE					
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	30	2	1	Dither 1	4	8	677.11	
	1	SHORT(A)	MRSLONG		FASTR1	30	2	1	Dither 1	4	8	677.11	
	1	SHORT(A)	MRSSHORT		FASTR1	30	2	1	Dither 1	4	8	677.11	
	2		IMAGER	F770W	FASTR1	30	2	1	Dither 1	4	8	677.11	
	2	MEDIUM(B)	MRSLONG		FASTR1	30	2	1	Dither 1	4	8	677.11	
	2	MEDIUM(B)	MRSSHORT		FASTR1	30	2	1	Dither 1	4	8	677.11	
	3		IMAGER	F770W	FASTR1	30	2	1	Dither 1	4	8	677.11	
	3	LONG(C)	MRSLONG		FASTR1	30	2	1	Dither 1	4	8	677.11	
	3	LONG(C)	MRSSHORT		FASTR1	30	2	1	Dither 1	4	8	677.11	

Proposal 3034 - Observation 11 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

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Observation	Proposal 3034, Observation 11: Lupus1-8-group Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(49)	Group LUPUS1-8-GROUP											
Comments: Target Selection=[11 LUPUS-1-SZ65, 17 LUPUS-8-SZ-66]													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	11 LUPUS-1-SZ65	FND	FAST	4	1	1	11.1	138733				
Template	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction			
	All MRS			YES			FULL			NEUTRAL			
Dithers	#	Dither Type			Optimized For			Direction					
	1	4-Point			POINT SOURCE			NEGATIVE					
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	1	SHORT(A)	MRSLONG		FASTR1	30	3	1	Dither 1	4	12	1021.215	
	1	SHORT(A)	MRSSHORT		FASTR1	30	3	1	Dither 1	4	12	1021.215	
	2		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	2	MEDIUM(B)	MRSLONG		FASTR1	30	3	1	Dither 1	4	12	1021.215	
	2	MEDIUM(B)	MRSSHORT		FASTR1	30	3	1	Dither 1	4	12	1021.215	
	3		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	3	LONG(C)	MRSLONG		FASTR1	30	3	1	Dither 1	4	12	1021.215	
	3	LONG(C)	MRSSHORT		FASTR1	30	3	1	Dither 1	4	12	1021.215	

Proposal 3034 - Observation 12 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

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Observation	Proposal 3034, Observation 12: Lupus3 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(12)	LUPUS-3-UCAC3-104-204438	RA: 16 12 43.7388 (243.1822450d) Dec: -38 15 3.42 (-38.25095d) Equinox: J2000			Proper Motion RA: -7.215015880775666E-4 sec of time/yr Proper Motion Dec: -0.022412999942389433 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	FND	FAST	4	1	1	11.1	142338				
Template	Primary Channel		Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
	All MRS		YES			FULL			NEUTRAL				
Dithers	#	Dither Type				Optimized For			Direction				
	1	4-Point				POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	10	4	1	Dither 1	4	16	477.307	
	1	SHORT(A)	MRSLONG		FASTR1	40	3	1	Dither 1	4	12	1354.22	
	1	SHORT(A)	MRSSHORT		FASTR1	40	3	1	Dither 1	4	12	1354.22	
	2		IMAGER	F770W	FASTR1	10	4	1	Dither 1	4	16	477.307	
	2	MEDIUM(B)	MRSLONG		FASTR1	40	3	1	Dither 1	4	12	1354.22	
	2	MEDIUM(B)	MRSSHORT		FASTR1	40	3	1	Dither 1	4	12	1354.22	
	3		IMAGER	F770W	FASTR1	10	4	1	Dither 1	4	16	477.307	
	3	LONG(C)	MRSLONG		FASTR1	40	3	1	Dither 1	4	12	1354.22	
	3	LONG(C)	MRSSHORT		FASTR1	40	3	1	Dither 1	4	12	1354.22	

Proposal 3034 - Observation 13 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

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Observation	Proposal 3034, Observation 13: Lupus4 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(13)	LUPUS-4-V-HM-LUP	RA: 15 47 50.6110 (236.9608792d) Dec: -35 28 35.76 (-35.47660d) Equinox: J2000			Proper Motion RA: -0.0011533906352368174 sec of time/yr Proper Motion Dec: -0.023194999994302634 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	FND	FAST	4	1	1	11.1	138733				
Template	Primary Channel		Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
	All MRS		YES			FULL			NEUTRAL				
Dithers	#	Dither Type				Optimized For			Direction				
	1	4-Point				POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	10	4	1	Dither 1	4	16	477.307	
	1	SHORT(A)	MRSLONG		FASTR1	30	4	1	Dither 1	4	16	1365.32	
	1	SHORT(A)	MRSSHORT		FASTR1	30	4	1	Dither 1	4	16	1365.32	
	2		IMAGER	F770W	FASTR1	10	4	1	Dither 1	4	16	477.307	
	2	MEDIUM(B)	MRSLONG		FASTR1	30	4	1	Dither 1	4	16	1365.32	
	2	MEDIUM(B)	MRSSHORT		FASTR1	30	4	1	Dither 1	4	16	1365.32	
	3		IMAGER	F770W	FASTR1	10	4	1	Dither 1	4	16	477.307	
	3	LONG(C)	MRSLONG		FASTR1	30	4	1	Dither 1	4	16	1365.32	
	3	LONG(C)	MRSSHORT		FASTR1	30	4	1	Dither 1	4	16	1365.32	

Proposal 3034 - Observation 14 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

Fri Dec 15 00:00:17 GMT 2023

Observation	Proposal 3034, Observation 14: Lupus5 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(14)	LUPUS-5-SZ-77	RA: 15 51 46.9421 (237.9455921d) Dec: -35 56 44.49 (-35.94569d) Equinox: J2000			Proper Motion RA: -0.001033465623354674 sec of time/yr Proper Motion Dec: -0.024183000050470582 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	FND	FAST	4	1	1	11.1	138733				
Template	Primary Channel		Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
	All MRS		YES			FULL			NEUTRAL				
Dithers	#	Dither Type				Optimized For			Direction				
	1	4-Point				POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	20	2	1	Dither 1	4	8	455.107	
	1	SHORT(A)	MRSLONG		FASTR1	30	3	1	Dither 1	4	12	1021.215	
	1	SHORT(A)	MRSSHORT		FASTR1	30	3	1	Dither 1	4	12	1021.215	
	2		IMAGER	F770W	FASTR1	20	2	1	Dither 1	4	8	455.107	
	2	MEDIUM(B)	MRSLONG		FASTR1	30	3	1	Dither 1	4	12	1021.215	
	2	MEDIUM(B)	MRSSHORT		FASTR1	30	3	1	Dither 1	4	12	1021.215	
	3		IMAGER	F770W	FASTR1	20	2	1	Dither 1	4	8	455.107	
	3	LONG(C)	MRSLONG		FASTR1	30	3	1	Dither 1	4	12	1021.215	
	3	LONG(C)	MRSSHORT		FASTR1	30	3	1	Dither 1	4	12	1021.215	

Proposal 3034 - Observation 15 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

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Observation	Proposal 3034, Observation 15: Lupus6 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(15)	LUPUS-6-J16085324-3914401	RA: 16 08 53.2281 (242.2217837d) Dec: -39 14 40.53 (-39.24459d) Equinox: J2000			Proper Motion RA: -9.050696518070413E-4 sec of time/yr Proper Motion Dec: -0.02379900001869828 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	FND	FAST	10	1	1	27.75	138698				
Template	Primary Channel		Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
	All MRS		YES			FULL			NEUTRAL				
Dithers	#	Dither Type				Optimized For			Direction				
	1	4-Point				POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	1	SHORT(A)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	1	SHORT(A)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	2		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	2	MEDIUM(B)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	2	MEDIUM(B)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	3		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	3	LONG(C)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	3	LONG(C)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	

Proposal 3034 - Observation 16 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

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Observation	Proposal 3034, Observation 16: Lupus7 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(16)	LUPUS-7-SZ-131	RA: 16 00 49.4181 (240.2059087d) Dec: -41 30 4.29 (-41.50119d) Equinox: J2000			Proper Motion RA: -9.85746177264701E-4 sec of time/yr Proper Motion Dec: -0.023807999923519674 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	FND	FAST	10	1	1	27.75	138741				
Template	Primary Channel		Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
	All MRS		YES			FULL			NEUTRAL				
Dithers	#	Dither Type				Optimized For			Direction				
	1	4-Point				POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	1	SHORT(A)	MRSLONG		FASTR1	40	3	1	Dither 1	4	12	1354.22	
	1	SHORT(A)	MRSSHORT		FASTR1	40	3	1	Dither 1	4	12	1354.22	
	2		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	2	MEDIUM(B)	MRSLONG		FASTR1	40	3	1	Dither 1	4	12	1354.22	
	2	MEDIUM(B)	MRSSHORT		FASTR1	40	3	1	Dither 1	4	12	1354.22	
	3		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	3	LONG(C)	MRSLONG		FASTR1	40	3	1	Dither 1	4	12	1354.22	
	3	LONG(C)	MRSSHORT		FASTR1	40	3	1	Dither 1	4	12	1354.22	

Proposal 3034 - Observation 18 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

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Observation	Proposal 3034, Observation 18: Lupus9 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 18:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(18)	LUPUS-9-SZ-95	RA: 16 07 52.2969 (241.9679038d) Dec: -38 58 6.45 (-38.96846d) Equinox: J2000			Proper Motion RA: -9.095052867484856E-4 sec of time/yr Proper Motion Dec: -0.023424999949384073 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	FND	FAST	10	1	1	27.75	138741				
Template	Primary Channel		Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
	All MRS		YES			FULL			NEUTRAL				
Dithers	#	Dither Type				Optimized For			Direction				
	1	4-Point				POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	1	SHORT(A)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	1	SHORT(A)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	2		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	2	MEDIUM(B)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	2	MEDIUM(B)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	3		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	3	LONG(C)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	3	LONG(C)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	

Proposal 3034 - Observation 19 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

Fri Dec 15 00:00:18 GMT 2023

Observation	Proposal 3034, Observation 19: UppSco1 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 19:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(19)	UPPSCO-1-J16120668-3010270	RA: 16 12 6.6647 (243.0277696d) Dec: -30 10 27.50 (-30.17431d) Equinox: J2000			Proper Motion RA: -9.82918488272127E-4 sec of time/yr Proper Motion Dec: -0.02697199995509436 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	FND	FAST	4	1	1	11.1	138733				
Template	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction			
	All MRS			YES			FULL			NEUTRAL			
Dithers	#	Dither Type				Optimized For			Direction				
	1	4-Point				POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	10	6	1	Dither 1	4	24	721.51	
	1	SHORT(A)	MRSLONG		FASTR1	30	4	1	Dither 1	4	16	1365.32	
	1	SHORT(A)	MRSSHORT		FASTR1	30	4	1	Dither 1	4	16	1365.32	
	2		IMAGER	F770W	FASTR1	10	6	1	Dither 1	4	24	721.51	
	2	MEDIUM(B)	MRSLONG		FASTR1	30	4	1	Dither 1	4	16	1365.32	
	2	MEDIUM(B)	MRSSHORT		FASTR1	30	4	1	Dither 1	4	16	1365.32	
	3		IMAGER	F770W	FASTR1	10	6	1	Dither 1	4	24	721.51	
	3	LONG(C)	MRSLONG		FASTR1	30	4	1	Dither 1	4	16	1365.32	
	3	LONG(C)	MRSSHORT		FASTR1	30	4	1	Dither 1	4	16	1365.32	

Proposal 3034 - Observation 20 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

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Observation	Proposal 3034, Observation 20: UppSco2 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 20:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(20)	UPPSCO-2-J1605-2023	RA: 16 05 45.3870 (241.4391125d) Dec: -20 23 9.17 (-20.38588d) Equinox: J2000			Proper Motion RA: -8.067270361735837E-4 sec of time/yr Proper Motion Dec: -0.023054999905980367 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	FND	FAST	10	1	1	27.75	138698				
Template	Primary Channel		Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
	All MRS		YES			FULL			NEUTRAL				
Dithers	#	Dither Type				Optimized For			Direction				
	1	4-Point				POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	10	2	1	Dither 1	4	8	233.103	
	1	SHORT(A)	MRSLONG		FASTR1	45	4	1	Dither 1	4	16	2031.329	
	1	SHORT(A)	MRSSHORT		FASTR1	45	4	1	Dither 1	4	16	2031.329	
	2		IMAGER	F770W	FASTR1	10	2	1	Dither 1	4	8	233.103	
	2	MEDIUM(B)	MRSLONG		FASTR1	45	4	1	Dither 1	4	16	2031.329	
	2	MEDIUM(B)	MRSSHORT		FASTR1	45	4	1	Dither 1	4	16	2031.329	
	3		IMAGER	F770W	FASTR1	10	2	1	Dither 1	4	8	233.103	
	3	LONG(C)	MRSLONG		FASTR1	45	4	1	Dither 1	4	16	2031.329	
	3	LONG(C)	MRSSHORT		FASTR1	45	4	1	Dither 1	4	16	2031.329	

Proposal 3034 - Observation 21 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

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Observation	Proposal 3034, Observation 21: UppSco3 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 21:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(21)	UPPSCO-3-J1602-2257	RA: 16 02 7.5631 (240.5315129d) Dec: -22 57 47.27 (-22.96313d) Equinox: J2000			Proper Motion RA: -8.760915857273492E-4 sec of time/yr Proper Motion Dec: -0.02502899990304286 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	FND	FAST	6	1	1	16.65	138798				
Template	Primary Channel		Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
	All MRS		YES			FULL			NEUTRAL				
Dithers	#	Dither Type				Optimized For			Direction				
	1	4-Point				POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	1	SHORT(A)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	1	SHORT(A)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	2		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	2	MEDIUM(B)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	2	MEDIUM(B)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	3		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	3	LONG(C)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	3	LONG(C)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	

Proposal 3034 - Observation 22 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

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Observation	Proposal 3034, Observation 22: UppSco4 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 22:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(22)	UPPSCO-4-J1611-1918	RA: 16 11 17.4104 (242.8225433d) Dec: -19 18 29.06 (-19.30807d) Equinox: J2000			Proper Motion RA: -6.471316549750339E-4 sec of time/yr Proper Motion Dec: -0.024457000085931213 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	FND	FAST	4	1	1	11.1	138733				
Template	Primary Channel		Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
	All MRS		YES			FULL			NEUTRAL				
Dithers	#	Dither Type				Optimized For			Direction				
	1	4-Point				POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	1	SHORT(A)	MRSLONG		FASTR1	30	3	1	Dither 1	4	12	1021.215	
	1	SHORT(A)	MRSSHORT		FASTR1	30	3	1	Dither 1	4	12	1021.215	
	2		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	2	MEDIUM(B)	MRSLONG		FASTR1	30	3	1	Dither 1	4	12	1021.215	
	2	MEDIUM(B)	MRSSHORT		FASTR1	30	3	1	Dither 1	4	12	1021.215	
	3		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	3	LONG(C)	MRSLONG		FASTR1	30	3	1	Dither 1	4	12	1021.215	
	3	LONG(C)	MRSSHORT		FASTR1	30	3	1	Dither 1	4	12	1021.215	

Proposal 3034 - Observation 23 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

Fri Dec 15 00:00:18 GMT 2023

Observation	Proposal 3034, Observation 23: UppSco5 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 23:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(23)	UPPSCO-5-J1614-2332	RA: 16 14 50.2540 (243.7093917d) Dec: -23 32 40.07 (-23.54446d) Equinox: J2000			Proper Motion RA: -6.868463889738323E-4 sec of time/yr Proper Motion Dec: -0.024844999938977708 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	FND	FAST	10	1	1	27.75	138698				
Template	Primary Channel		Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
	All MRS		YES			FULL			NEUTRAL				
Dithers	#	Dither Type				Optimized For			Direction				
	1	4-Point				POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	1	SHORT(A)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	1	SHORT(A)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	2		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	2	MEDIUM(B)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	2	MEDIUM(B)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	3		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	3	LONG(C)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	3	LONG(C)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	

Proposal 3034 - Observation 24 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

Fri Dec 15 00:00:18 GMT 2023

Observation	Proposal 3034, Observation 24: UppSco6 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 24:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(24)	UPPSCO-6-J1616-2521	RA: 16 16 33.4350 (244.1393125d) Dec: -25 21 51.01 (-25.36417d) Equinox: J2000			Proper Motion RA: -7.625027019945745E-4 sec of time/yr Proper Motion Dec: -0.022766000029150746 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	FND	FAST	10	1	1	27.75	138698				
Template	Primary Channel		Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
	All MRS		YES			FULL			NEUTRAL				
Dithers	#	Dither Type				Optimized For			Direction				
	1	4-Point				POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	1	SHORT(A)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	1	SHORT(A)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	2		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	2	MEDIUM(B)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	2	MEDIUM(B)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	3		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	3	LONG(C)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	3	LONG(C)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	

Proposal 3034 - Observation 25 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

Fri Dec 15 00:00:18 GMT 2023

Observation	Proposal 3034, Observation 25: UppSco7 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 25:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(25)	UPPSCO-7-J1620-2442	RA: 16 20 28.6272 (245.1192800d) Dec: -24 42 9.04 (-24.70251d) Equinox: J2000			Proper Motion RA: -7.005031336004114E-4 sec of time/yr Proper Motion Dec: -0.020345999905657663 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	FND	FAST	6	1	1	16.65	138698				
Template	Primary Channel		Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
	All MRS		YES			FULL			NEUTRAL				
Dithers	#	Dither Type				Optimized For			Direction				
	1	4-Point				POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	1	SHORT(A)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	1	SHORT(A)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	2		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	2	MEDIUM(B)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	2	MEDIUM(B)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	3		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	3	LONG(C)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	3	LONG(C)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	

Proposal 3034 - Observation 26 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

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Observation	Proposal 3034, Observation 26: UppSco8 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 26:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(26)	UPPSCO-8-J1622-2511	RA: 16 22 15.3268 (245.5638617d) Dec: -25 11 35.49 (-25.19319d) Equinox: J2000			Proper Motion RA: -4.5899391662191584E-4 sec of time/yr Proper Motion Dec: -0.027117999979964225 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	FND	FAST	10	1	1	27.75	138698				
Template	Primary Channel		Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
	All MRS		YES			FULL			NEUTRAL				
Dithers	#	Dither Type				Optimized For			Direction				
	1	4-Point				POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	1	SHORT(A)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	1	SHORT(A)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	2		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	2	MEDIUM(B)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	2	MEDIUM(B)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	3		IMAGER	F770W	FASTR1	10	3	1	Dither 1	4	12	355.205	
	3	LONG(C)	MRSLONG		FASTR1	45	3	1	Dither 1	4	12	1520.722	
	3	LONG(C)	MRSSHORT		FASTR1	45	3	1	Dither 1	4	12	1520.722	

Proposal 3034 - Observation 27 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

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Observation	Proposal 3034, Observation 27: UppSco9 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 27:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(27)	UPPSCO-9-J1608-1930	RA: 16 08 23.2332 (242.0968050d) Dec: -19 30 1.33 (-19.50037d) Equinox: J2000			Proper Motion RA: -8.795870199753587E-4 sec of time/yr Proper Motion Dec: -0.022476999947684817 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	FND	FAST	6	1	1	16.65	138741				
Template	Primary Channel		Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
	All MRS		YES			FULL			NEUTRAL				
Dithers	#	Dither Type				Optimized For			Direction				
	1	4-Point				POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	20	2	1	Dither 1	4	8	455.107	
	1	SHORT(A)	MRSLONG		FASTR1	40	3	1	Dither 1	4	12	1354.22	
	1	SHORT(A)	MRSSHORT		FASTR1	40	3	1	Dither 1	4	12	1354.22	
	2		IMAGER	F770W	FASTR1	20	2	1	Dither 1	4	8	455.107	
	2	MEDIUM(B)	MRSLONG		FASTR1	40	3	1	Dither 1	4	12	1354.22	
	2	MEDIUM(B)	MRSSHORT		FASTR1	40	3	1	Dither 1	4	12	1354.22	
	3		IMAGER	F770W	FASTR1	20	2	1	Dither 1	4	8	455.107	
	3	LONG(C)	MRSLONG		FASTR1	40	3	1	Dither 1	4	12	1354.22	
	3	LONG(C)	MRSSHORT		FASTR1	40	3	1	Dither 1	4	12	1354.22	

Proposal 3034 - Observation 28 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

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Observation	Proposal 3034, Observation 28: UppSco10 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 28:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(28)	UPPSCO-10-J1609-1908	RA: 16 09 0.7490 (242.2531208d) Dec: -19 08 53.07 (-19.14808d) Equinox: J2000			Proper Motion RA: -6.615333105779053E-4 sec of time/yr Proper Motion Dec: -0.025121000089711742 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protoplanetary disks] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	FND	FAST	4	1	1	11.1	138733				
Template	Primary Channel		Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
	All MRS		YES			FULL			NEUTRAL				
Dithers	#	Dither Type				Optimized For			Direction				
	1	4-Point				POINT SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	10	4	1	Dither 1	4	16	477.307	
	1	SHORT(A)	MRSLONG		FASTR1	30	3	1	Dither 1	4	12	1021.215	
	1	SHORT(A)	MRSSHORT		FASTR1	30	3	1	Dither 1	4	12	1021.215	
	2		IMAGER	F770W	FASTR1	10	4	1	Dither 1	4	16	477.307	
	2	MEDIUM(B)	MRSLONG		FASTR1	30	3	1	Dither 1	4	12	1021.215	
	2	MEDIUM(B)	MRSSHORT		FASTR1	30	3	1	Dither 1	4	12	1021.215	
	3		IMAGER	F770W	FASTR1	10	4	1	Dither 1	4	16	477.307	
	3	LONG(C)	MRSLONG		FASTR1	30	3	1	Dither 1	4	12	1021.215	
	3	LONG(C)	MRSSHORT		FASTR1	30	3	1	Dither 1	4	12	1021.215	

Proposal 3034 - Observation 39 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

Fri Dec 15 00:00:18 GMT 2023

Observation	Proposal 3034, Observation 39: 515 Athalia Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 39:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (515 Athalia (Obs 39)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. (Visit 39:1) 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.												
Diagnostics													
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(50)	515-Athalia	TYPE=ASTEROID,A=3.127753669836518,E=0.1705 563247734848,I=2.038215548285241 ,O=121.2102641330697,W=300.0403671552252,M=6 6.71360659269416,EQUINOX=J2000,EPOCH=14- DEC-2015:00:00:00,EpochTimeScale=TDB Comments: Extended=NO										
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	FND	FAST	4	1	1	11.1	50758.13				
Template	Primary Channel		Simultaneous Imaging			Imager Subarray			Grating Wheel Direction				
	All MRS		YES			FULL			NEUTRAL				
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	10	2	1	Dither 1	4	8	233.103	
	1	LONG(C)	MRSLONG		FASTR1	15	16	1	Dither 1	4	64	2830.541	
	1	LONG(C)	MRSSHORT		FASTR1	26	10	1	Dither 1	4	40	2985.943	
	2		IMAGER	F770W	FASTR1	10	2	1	Dither 1	4	8	233.103	
	2	MEDIUM(B)	MRSLONG		FASTR1	15	16	1	Dither 1	4	64	2830.541	
	2	MEDIUM(B)	MRSSHORT		FASTR1	26	10	1	Dither 1	4	40	2985.943	
	3		IMAGER	F770W	FASTR1	10	2	1	Dither 1	4	8	233.103	
	3	SHORT(A)	MRSLONG		FASTR1	15	16	1	Dither 1	4	64	2830.541	
	3	SHORT(A)	MRSSHORT		FASTR1	26	10	1	Dither 1	4	40	2985.943	

Proposal 3034 - Observation 39 - Building on ALMA: a JWST legacy survey of the chemical evolution of planet-forming disks

Special Requirements

Between Dates 27-APR-2024:00:00:00 and 24-JUN-2024:00:00:00

DEFAULT WINDOW: ANGULAR RATE 515-Athalia FROM JWST LESS THAN 0.075