



2459 - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and molecular hydrogen measurements

Cycle: 1, Proposal Category: GO

INVESTIGATORS

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OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
HD014434				
	1	NIRCam	NIRCam Grism Time Series	(1) HD-14434
	2	MIRI	MIRI Medium Resolution Spectroscopy	(1) HD-14434
HD038087				
	3	NIRCam	NIRCam Grism Time Series	(2) HD-38087
	4	MIRI	MIRI Medium Resolution Spectroscopy	(2) HD-38087
HD073882				
	5	NIRCam	NIRCam Grism Time Series	(3) HD-73882
	6	MIRI	MIRI Medium Resolution Spectroscopy	(3) HD-73882
HD147888				
	7	NIRCam	NIRCam Grism Time Series	(4) HD-147888
	8	MIRI	MIRI Medium Resolution Spectroscopy	(4) HD-147888
HD152249				
	9	NIRCam	NIRCam Grism Time Series	(5) HD-152249

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	10	MIRI	MIRI Medium Resolution Spectroscopy	(5) HD-152249
HD203938				
	11	NIRCam	NIRCam Grism Time Series	(6) HD-203938
	12	MIRI	MIRI Medium Resolution Spectroscopy	(6) HD-203938
HD206267				
	13	NIRCam	NIRCam Grism Time Series	(7) HD-206267
	14	MIRI	MIRI Medium Resolution Spectroscopy	(7) HD-206267
HD207198				
	15	NIRCam	NIRCam Grism Time Series	(8) HD-207198
	16	MIRI	MIRI Medium Resolution Spectroscopy	(8) HD-207198
HD216898				
	17	NIRCam	NIRCam Grism Time Series	(9) HD-216898
	19	NIRCam - Repeat of (Obs 17) under WOPR 88539	NIRCam Grism Time Series	(9) HD-216898
	18	MIRI	MIRI Medium Resolution Spectroscopy	(9) HD-216898

ABSTRACT

We propose to observe a carefully selected sample of 9 stars in the Milky Way with the NIRCam Grism Time Series mode and the MIRI Medium Resolution Spectrograph to measure dust extinction curves from 2.4 to 28 micron. The continuum extinction will provide a measurement of the dust grain size distribution, while the absorption features in the extinction curve reveal details about the chemical composition of the dust grains. Combining these near- and mid-infrared extinction curves with UV extinction curves, depletion measurements and molecular hydrogen fractions, will place much stronger constraints on the grain composition and its variation between sightlines than could ever be derived from these individual measurements. The proposed observations are currently the last missing piece to complete the puzzle.

OBSERVING DESCRIPTION

We propose to observe 9 Milky Way stars with the NIRCam Grism Time Series mode and the MIRI Medium Resolution Spectrograph to measure dust extinction curves from 2.4 to 28 micron. These stars have been carefully selected from a larger sample for which UV extinction curves, H₂-fractions and depletion measurements of C, Si, Mg, Fe and O are (or will be) available. Only stars that do not show evidence for strong stellar winds were included in the sample, based on their IRS spectra and/or IR colors. The NIRCam Grism Time Series mode allows short enough integration times to take spectra of our bright targets without saturating the detector. These observations (in filter F322W2) will provide the continuum

JWST Proposal 2459 (Created: Tuesday, September 19, 2023 at 3:00:11 PM Eastern Standard Time) - Overview

extinction between 2.4 and 4.2 micron, and will allow us to distinguish substructure in the HAC feature at 3.4 micron. With the MIRI MRS we will be able to measure the continuum extinction between 5 and 28 micron, and to study the profile of the 10 micron silicate feature in detail, and detect small shifts in its peak wavelength and variations in its width between different sightlines. We request a total of 17 hours for these observations.

09/18/2022 - Obs 19 added as duplicate of Obs 17 as per WOPR 88539. Obs 17 had a failed guide star acquisition due to FGS guide acquisition failure.

Proposal 2459 - Targets - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and molecular ...

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	HD-14434	RA: 02 21 52.4115 (35.4683813d) Dec: +56 54 17.98 (56.90499d) Equinox: J2000	Proper Motion RA: -4.554093358814812E-5 sec of time/yr Proper Motion Dec: -0.0031260000923793996 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=[Emission line stars, O stars] Extended=NO</p>				
(2)	HD-38087	RA: 05 43 0.5743 (85.7523929d) Dec: -02 18 45.43 (-2.31262d) Equinox: J2000	Proper Motion RA: -5.237599187580705E-5 sec of time/yr Proper Motion Dec: -0.00246200008859887 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=[B giants, Multiple stars] Extended=NO</p>				
(3)	HD-73882	RA: 08 39 9.5290 (129.7897042d) Dec: -40 25 9.20 (-40.41922d) Equinox: J2000	Proper Motion RA: -3.301280171532504E-4 sec of time/yr Proper Motion Dec: 0.00383 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=[Eclipsing binary stars, O stars] Extended=NO</p>				
(4)	HD-147888	RA: 16 25 24.2737 (246.3511404d) Dec: -23 27 37.08 (-23.46030d) Equinox: J2000	Proper Motion RA: -0.001293673345860631 sec of time/yr Proper Motion Dec: -0.016659000016261416 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=[B stars, Multiple stars] Extended=NO</p>				
(5)	HD-152249	RA: 16 54 11.6387 (253.5484946d) Dec: -41 50 57.33 (-41.84926d) Equinox: J2000	Proper Motion RA: -3.338243642057614E-5 sec of time/yr Proper Motion Dec: -0.0023459999511032947 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=[O supergiants] Extended=NO</p>				
(6)	HD-203938	RA: 21 23 50.1711 (320.9590462d) Dec: +47 09 52.30 (47.16453d) Equinox: J2000	Proper Motion RA: -2.637660489714744E-4 sec of time/yr Proper Motion Dec: -0.005280000027596543 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=[B stars] Extended=NO</p>				

Fixed Targets

Proposal 2459 - Targets - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and molecular ...

(7)	HD-206267	RA: 21 38 57.6126 (324.7400525d) Dec: +57 29 20.47 (57.48902d) Equinox: J2000	Proper Motion RA: -3.6666209945109126E-4 sec of time/yr Proper Motion Dec: -0.005764000093222421 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=[O stars] Extended=NO</p>			
(8)	HD-207198	RA: 21 44 53.2711 (326.2219629d) Dec: +62 27 38.03 (62.46056d) Equinox: J2000	Proper Motion RA: -5.098490879455598E-4 sec of time/yr Proper Motion Dec: -9.730000101626501E-4 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=[O giants] Extended=NO</p>			
(9)	HD-216898	RA: 22 55 42.4565 (343.9269021d) Dec: +62 18 22.77 (62.30632d) Equinox: J2000	Proper Motion RA: -1.1074190380937515E-4 sec of time/yr Proper Motion Dec: -0.0029340000764932483 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=[O stars] Extended=NO</p>			

Proposal 2459 - Observation 1 - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and mol...

Tue Sep 19 20:00:11 GMT 2023

Observation	<p>Proposal 2459, Observation 1: NIRCam</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Grism Time Series</p>									
Diagnostics	(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)	HD-14434	RA: 02 21 52.4115 (35.4683813d) Dec: +56 54 17.98 (56.90499d) Equinox: J2000		Proper Motion RA: -4.554093358814812E-5 sec of time/yr Proper Motion Dec: -0.0031260000923793996 arcsec/yr Epoch of Position: 2015.5					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[Emission line stars, O stars]</i></p> <p><i>Extended=NO</i></p>									
Acquisition	#	Target	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	SUB32TATSGRIS M	F335M	RAPID	3	1	1	0.062	61402
Template	Subarray					No. of Output Channels				
	SUBGRISM256					4				
Spectral Elements	#	Short Pupil+Filter	Long Pupil+Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	CLEAR+WLP4	GRISMR+F322W2	RAPID	5	4	1	4	32.402	61402

Special Requirements

Time Series Observation
No Parallel Attachments

Proposal 2459 - Observation 2 - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and mol...

Tue Sep 19 20:00:11 GMT 2023

Observation	Proposal 2459, Observation 2: MIRI 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				
	(1)	HD-14434	RA: 02 21 52.4115 (35.4683813d) Dec: +56 54 17.98 (56.90499d) Equinox: J2000			Proper Motion RA: -4.554093358814812E-5 sec of time/yr Proper Motion Dec: -0.0031260000923793996 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=[Emission line stars, O stars] 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	61402				
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/Dit	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F1130W	FASTR1	8	1	1	Dither 1	4	4	88.801	61402
	1	LONG(C)	MRSLONG		FASTR1	8	1	1	Dither 1	4	4	88.801	61402
	1	LONG(C)	MRSSHORT		FASTR1	8	1	1	Dither 1	4	4	88.801	61402
	2		IMAGER	F1000W	FASTR1	7	1	1	Dither 1	4	4	77.701	61402
	2	MEDIUM(B)	MRSLONG		FASTR1	7	1	1	Dither 1	4	4	77.701	61402
	2	MEDIUM(B)	MRSSHORT		FASTR1	7	1	1	Dither 1	4	4	77.701	61402
	3		IMAGER	F770W	FASTR1	5	1	1	Dither 1	4	4	55.501	61402
	3	SHORT(A)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	61402
	3	SHORT(A)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	61402

Proposal 2459 - Observation 3 - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and mol...

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Observation	<p>Proposal 2459, Observation 3: NIRCam</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Grism Time Series</p>									
Diagnostics	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(2)	HD-38087	RA: 05 43 0.5743 (85.7523929d) Dec: -02 18 45.43 (-2.31262d) Equinox: J2000		Proper Motion RA: -5.237599187580705E-5 sec of time/yr Proper Motion Dec: -0.00246200008859887 arcsec/yr Epoch of Position: 2015.5					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[B giants, Multiple stars]</i></p> <p><i>Extended=NO</i></p>									
Acquisition	#	Target	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	SUB32TATSGRIS M	F335M	RAPID	3	1	1	0.062	62354
Template	Subarray					No. of Output Channels				
	SUBGRISM256					4				
Spectral Elements	#	Short Pupil+Filter	Long Pupil+Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	CLEAR+WLP4	GRISMR+F322W2	RAPID	5	4	1	4	32.402	62354
Special Requirements	<p>Time Series Observation</p> <p>No Parallel Attachments</p>									

Proposal 2459 - Observation 4 - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and mol...

Tue Sep 19 20:00:11 GMT 2023

Observation	Proposal 2459, Observation 4: MIRI 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			
	(2)	HD-38087	RA: 05 43 0.5743 (85.7523929d) Dec: -02 18 45.43 (-2.31262d) Equinox: J2000			Proper Motion RA: -5.237599187580705E-5 sec of time/yr Proper Motion Dec: -0.00246200008859887 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=[B giants, Multiple stars] 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	62354				
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	F1130W	FASTR1	5	1	1	Dither 1	4	4	55.501	62354
	1	LONG(C)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62354
	1	LONG(C)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62354
	2		IMAGER	F1000W	FASTR1	5	1	1	Dither 1	4	4	55.501	62354
	2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62354
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62354
	3		IMAGER	F770W	FASTR1	5	1	1	Dither 1	4	4	55.501	62354
	3	SHORT(A)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62354
	3	SHORT(A)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62354

Proposal 2459 - Observation 5 - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and mol...

Tue Sep 19 20:00:11 GMT 2023

Observation	<p>Proposal 2459, Observation 5: NIRCam</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Grism Time Series</p>									
Diagnostics	(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(3)	HD-73882	RA: 08 39 9.5290 (129.7897042d) Dec: -40 25 9.20 (-40.41922d) Equinox: J2000		Proper Motion RA: -3.301280171532504E-4 sec of time/yr Proper Motion Dec: 0.00383 arcsec/yr Epoch of Position: 2015.5					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[Eclipsing binary stars, O stars]</i></p> <p><i>Extended=NO</i></p>									
Acquisition	#	Target	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	SUB32TATSGRIS M	F405N+F444W	RAPID	3	1	1	0.062	62379
Template	Subarray					No. of Output Channels				
	SUBGRISM64					4				
Spectral Elements	#	Short Pupil+Filter	Long Pupil+Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	CLEAR+WLP4	GRISMR+F322W2	RAPID	5	4	1	4	8.195	62379
Special Requirements	<p>Time Series Observation</p> <p>No Parallel Attachments</p>									

Proposal 2459 - Observation 6 - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and mol...

Tue Sep 19 20:00:11 GMT 2023

Observation	Proposal 2459, Observation 6: MIRI 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			
	(3)	HD-73882	RA: 08 39 9.5290 (129.7897042d) Dec: -40 25 9.20 (-40.41922d) Equinox: J2000			Proper Motion RA: -3.301280171532504E-4 sec of time/yr Proper Motion Dec: 0.00383 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=[Eclipsing binary stars, O stars] 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	62379				
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	F1130W	FASTR1	5	1	1	Dither 1	4	4	55.501	62379
	1	LONG(C)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62379
	1	LONG(C)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62379
	2		IMAGER	F1000W	FASTR1	5	1	1	Dither 1	4	4	55.501	62379
	2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62379
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62379
	3		IMAGER	F770W	FASTR1	5	1	1	Dither 1	4	4	55.501	62379
	3	SHORT(A)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62379
	3	SHORT(A)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62379

Proposal 2459 - Observation 7 - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and mol...

Tue Sep 19 20:00:11 GMT 2023

Observation	<p>Proposal 2459, Observation 7: NIRCam</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Grism Time Series</p>									
Diagnostics	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(4)	HD-147888	RA: 16 25 24.2737 (246.3511404d) Dec: -23 27 37.08 (-23.46030d) Equinox: J2000		Proper Motion RA: -0.001293673345860631 sec of time/yr Proper Motion Dec: -0.016659000016261416 arcsec/yr Epoch of Position: 2015.5					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[B stars, Multiple stars]</i></p> <p><i>Extended=NO</i></p>									
Acquisition	#	Target	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	SUB32TATSGRIS M	F405N+F444W	RAPID	3	1	1	0.062	62386
Template	Subarray					No. of Output Channels				
	SUBGRISM64					4				
Spectral Elements	#	Short Pupil+Filter	Long Pupil+Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	CLEAR+WLP4	GRISMR+F322W2	RAPID	4	4	1	4	6.833	62386
Special Requirements	<p>Time Series Observation</p> <p>No Parallel Attachments</p>									

Proposal 2459 - Observation 8 - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and mol...

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Observation	Proposal 2459, Observation 8: MIRI 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			
	(4)	HD-147888	RA: 16 25 24.2737 (246.3511404d) Dec: -23 27 37.08 (-23.46030d) Equinox: J2000			Proper Motion RA: -0.001293673345860631 sec of time/yr Proper Motion Dec: -0.016659000016261416 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=[B stars, Multiple stars] 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	62386				
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	F1130W	FASTR1	5	1	1	Dither 1	4	4	55.501	62386
	1	LONG(C)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62386
	1	LONG(C)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62386
	2		IMAGER	F1000W	FASTR1	5	1	1	Dither 1	4	4	55.501	62386
	2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62386
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62386
	3		IMAGER	F770W	FASTR1	5	1	1	Dither 1	4	4	55.501	62386
	3	SHORT(A)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62386
	3	SHORT(A)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62386

Proposal 2459 - Observation 9 - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and mol...

Tue Sep 19 20:00:11 GMT 2023

Observation	<p>Proposal 2459, Observation 9: NIRCam</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Grism Time Series</p>									
Diagnostics	(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(5)	HD-152249	RA: 16 54 11.6387 (253.5484946d) Dec: -41 50 57.33 (-41.84926d) Equinox: J2000		Proper Motion RA: -3.338243642057614E-5 sec of time/yr Proper Motion Dec: -0.0023459999511032947 arcsec/yr Epoch of Position: 2015.5					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[O supergiants]</i></p> <p><i>Extended=NO</i></p>									
Acquisition	#	Target	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	SUB32TATSGRIS M	F405N+F444W	RAPID	3	1	1	0.062	62401
Template	Subarray					No. of Output Channels				
	SUBGRISM64					4				
Spectral Elements	#	Short Pupil+Filter	Long Pupil+Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	CLEAR+WLP4	GRISMR+F322W2	RAPID	5	4	1	4	8.195	62401

Special Requirements

Time Series Observation
No Parallel Attachments

Proposal 2459 - Observation 10 - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and m...

Tue Sep 19 20:00:11 GMT 2023

Observation	Proposal 2459, Observation 10: MIRI 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				
	(5)	HD-152249	RA: 16 54 11.6387 (253.5484946d) Dec: -41 50 57.33 (-41.84926d) Equinox: J2000			Proper Motion RA: -3.338243642057614E-5 sec of time/yr Proper Motion Dec: -0.0023459999511032947 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=[O supergiants] 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	62401				
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/Dit	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	5	1	1	Dither 1	4	4	55.501	62401
	1	SHORT(A)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62401
	1	SHORT(A)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62401
	2		IMAGER	F1000W	FASTR1	5	1	1	Dither 1	4	4	55.501	62401
	2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62401
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62401
	3		IMAGER	F1130W	FASTR1	5	1	1	Dither 1	4	4	55.501	62401
	3	LONG(C)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62401
	3	LONG(C)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62401

Proposal 2459 - Observation 11 - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and m...

Tue Sep 19 20:00:11 GMT 2023

Observation	<p>Proposal 2459, Observation 11: NIRCam</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Grism Time Series</p>									
Diagnostics	(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(6)	HD-203938	RA: 21 23 50.1711 (320.9590462d) Dec: +47 09 52.30 (47.16453d) Equinox: J2000		Proper Motion RA: -2.637660489714744E-4 sec of time/yr Proper Motion Dec: -0.005280000027596543 arcsec/yr Epoch of Position: 2015.5					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[B stars]</i></p> <p><i>Extended=NO</i></p>									
Acquisition	#	Target	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	SUB32TATSGRIS M	F405N+F444W	RAPID	3	1	1	0.062	62406
Template	Subarray					No. of Output Channels				
	SUBGRISM64					4				
Spectral Elements	#	Short Pupil+Filter	Long Pupil+Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	CLEAR+WLP4	GRISMR+F322W2	RAPID	5	4	1	4	8.195	62406
Special Requirements	<p>Time Series Observation</p> <p>No Parallel Attachments</p>									

Proposal 2459 - Observation 12 - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and m...

Tue Sep 19 20:00:11 GMT 2023

Observation	Proposal 2459, Observation 12: MIRI 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			
	(6)	HD-203938	RA: 21 23 50.1711 (320.9590462d) Dec: +47 09 52.30 (47.16453d) Equinox: J2000			Proper Motion RA: -2.637660489714744E-4 sec of time/yr Proper Motion Dec: -0.005280000027596543 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=[B stars] 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	62406				
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	5	1	1	Dither 1	4	4	55.501	62406
	1	SHORT(A)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62406
	1	SHORT(A)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62406
	2		IMAGER	F1000W	FASTR1	5	1	1	Dither 1	4	4	55.501	62406
	2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62406
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62406
	3		IMAGER	F1130W	FASTR1	5	1	1	Dither 1	4	4	55.501	62406
	3	LONG(C)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62406
	3	LONG(C)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62406

Proposal 2459 - Observation 13 - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and m...

Tue Sep 19 20:00:11 GMT 2023

Observation	<p>Proposal 2459, Observation 13: NIRCam</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Grism Time Series</p>																													
Diagnostics	(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																													
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>(7)</td> <td>HD-206267</td> <td>RA: 21 38 57.6126 (324.7400525d) Dec: +57 29 20.47 (57.48902d) Equinox: J2000</td> <td>Proper Motion RA: -3.6666209945109126E-4 sec of time/yr Proper Motion Dec: -0.005764000093222421 arcsec/yr Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[O stars]</i> <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(7)	HD-206267	RA: 21 38 57.6126 (324.7400525d) Dec: +57 29 20.47 (57.48902d) Equinox: J2000	Proper Motion RA: -3.6666209945109126E-4 sec of time/yr Proper Motion Dec: -0.005764000093222421 arcsec/yr Epoch of Position: 2015.5											
#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																										
(7)	HD-206267	RA: 21 38 57.6126 (324.7400525d) Dec: +57 29 20.47 (57.48902d) Equinox: J2000	Proper Motion RA: -3.6666209945109126E-4 sec of time/yr Proper Motion Dec: -0.005764000093222421 arcsec/yr Epoch of Position: 2015.5																											
Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>SUB32TATSGRIS M</td> <td>F405N+F444W</td> <td>RAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.062</td> <td>62565</td> </tr> </tbody> </table>										#	Target	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	SAME	SUB32TATSGRIS M	F405N+F444W	RAPID	3	1	1	0.062	62565
#	Target	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																					
1	SAME	SUB32TATSGRIS M	F405N+F444W	RAPID	3	1	1	0.062	62565																					
Template	<table border="1"> <thead> <tr> <th>Subarray</th> <th>No. of Output Channels</th> </tr> </thead> <tbody> <tr> <td>SUBGRISM64</td> <td>4</td> </tr> </tbody> </table>										Subarray	No. of Output Channels	SUBGRISM64	4																
Subarray	No. of Output Channels																													
SUBGRISM64	4																													
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Short Pupil+Filter</th> <th>Long Pupil+Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CLEAR+WLP4</td> <td>GRISMR+F322W2</td> <td>RAPID</td> <td>3</td> <td>4</td> <td>1</td> <td>4</td> <td>5.47</td> <td>62565</td> </tr> </tbody> </table>										#	Short Pupil+Filter	Long Pupil+Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	CLEAR+WLP4	GRISMR+F322W2	RAPID	3	4	1	4	5.47	62565
#	Short Pupil+Filter	Long Pupil+Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																					
1	CLEAR+WLP4	GRISMR+F322W2	RAPID	3	4	1	4	5.47	62565																					
Special Requirements	<p>Time Series Observation No Parallel Attachments</p>																													

Proposal 2459 - Observation 14 - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and m...

Tue Sep 19 20:00:11 GMT 2023

Observation	Proposal 2459, Observation 14: MIRI 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			
	(7)	HD-206267	RA: 21 38 57.6126 (324.7400525d) Dec: +57 29 20.47 (57.48902d) Equinox: J2000			Proper Motion RA: -3.6666209945109126E-4 sec of time/yr Proper Motion Dec: -0.005764000093222421 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=[O stars] 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	62565				
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	5	1	1	Dither 1	4	4	55.501	62565
	1	SHORT(A)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62565
	1	SHORT(A)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62565
	2		IMAGER	F1000W	FASTR1	5	1	1	Dither 1	4	4	55.501	62565
	2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62565
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62565
	3		IMAGER	F1130W	FASTR1	5	1	1	Dither 1	4	4	55.501	62565
	3	LONG(C)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62565
	3	LONG(C)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62565

Proposal 2459 - Observation 15 - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and m...

Tue Sep 19 20:00:11 GMT 2023

Observation	<p>Proposal 2459, Observation 15: NIRCam Diagnostic Status: Warning Observing Template: NIRCam Grism Time Series</p>																																							
Diagnostics	(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																							
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="2">Targ. Coord. Corrections</th> <th colspan="5">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(8)</td> <td>HD-207198</td> <td>RA: 21 44 53.2711 (326.2219629d) Dec: +62 27 38.03 (62.46056d) Equinox: J2000</td> <td colspan="2">Proper Motion RA: -5.098490879455598E-4 sec of time/yr Proper Motion Dec: -9.730000101626501E-4 arcsec/yr Epoch of Position: 2015.5</td> <td colspan="5"></td> </tr> <tr> <td colspan="10"> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[O giants] Extended=NO </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections		Miscellaneous					(8)	HD-207198	RA: 21 44 53.2711 (326.2219629d) Dec: +62 27 38.03 (62.46056d) Equinox: J2000	Proper Motion RA: -5.098490879455598E-4 sec of time/yr Proper Motion Dec: -9.730000101626501E-4 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=[O giants] Extended=NO									
#	Name	Target Coordinates	Targ. Coord. Corrections		Miscellaneous																																			
(8)	HD-207198	RA: 21 44 53.2711 (326.2219629d) Dec: +62 27 38.03 (62.46056d) Equinox: J2000	Proper Motion RA: -5.098490879455598E-4 sec of time/yr Proper Motion Dec: -9.730000101626501E-4 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=[O giants] Extended=NO																																								
Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>SUB32TATSGRIS M</td> <td>F405N+F444W</td> <td>RAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.062</td> <td>62581</td> </tr> </tbody> </table>										#	Target	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	SAME	SUB32TATSGRIS M	F405N+F444W	RAPID	3	1	1	0.062	62581										
#	Target	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																															
1	SAME	SUB32TATSGRIS M	F405N+F444W	RAPID	3	1	1	0.062	62581																															
Template	<table border="1"> <thead> <tr> <th>Subarray</th> <th>No. of Output Channels</th> </tr> </thead> <tbody> <tr> <td>SUBGRISM64</td> <td>4</td> </tr> </tbody> </table>										Subarray	No. of Output Channels	SUBGRISM64	4																										
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Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Short Pupil+Filter</th> <th>Long Pupil+Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CLEAR+WLP4</td> <td>GRISMR+F322W2</td> <td>RAPID</td> <td>4</td> <td>4</td> <td>1</td> <td>4</td> <td>6.833</td> <td>62581</td> </tr> </tbody> </table>										#	Short Pupil+Filter	Long Pupil+Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	CLEAR+WLP4	GRISMR+F322W2	RAPID	4	4	1	4	6.833	62581										
#	Short Pupil+Filter	Long Pupil+Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																															
1	CLEAR+WLP4	GRISMR+F322W2	RAPID	4	4	1	4	6.833	62581																															
Special Requirements	Time Series Observation No Parallel Attachments																																							

Proposal 2459 - Observation 16 - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and m...

Tue Sep 19 20:00:11 GMT 2023

Observation	Proposal 2459, Observation 16: MIRI 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				
	(8)	HD-207198	RA: 21 44 53.2711 (326.2219629d) Dec: +62 27 38.03 (62.46056d) Equinox: J2000			Proper Motion RA: -5.098490879455598E-4 sec of time/yr Proper Motion Dec: -9.730000101626501E-4 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=[O giants] 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	62581				
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	5	1	1	Dither 1	4	4	55.501	62581
	1	SHORT(A)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62581
	1	SHORT(A)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62581
	2		IMAGER	F1000W	FASTR1	5	1	1	Dither 1	4	4	55.501	62581
	2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62581
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62581
	3		IMAGER	F1130W	FASTR1	5	1	1	Dither 1	4	4	55.501	62581
	3	LONG(C)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62581
	3	LONG(C)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62581

Proposal 2459 - Observation 17 - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and m...

Tue Sep 19 20:00:11 GMT 2023

Observation	<p>Proposal 2459, Observation 17: NIRCam Diagnostic Status: Warning Observing Template: NIRCam Grism Time Series</p>									
Diagnostics	(Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(9)	HD-216898	RA: 22 55 42.4565 (343.9269021d) Dec: +62 18 22.77 (62.30632d) Equinox: J2000		Proper Motion RA: -1.1074190380937515E-4 sec of time/yr Proper Motion Dec: -0.0029340000764932483 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=[O stars] Extended=NO</p>									
Acquisition	#	Target	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	SUB32TATSGRIS M	F405N+F444W	RAPID	3	1	1	0.062	62582
Template	Subarray					No. of Output Channels				
	SUBGRISM128					4				
Spectral Elements	#	Short Pupil+Filter	Long Pupil+Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	CLEAR+WLP4	GRISMR+F322W2	RAPID	5	4	1	4	16.244	62582

Special Requirements

Time Series Observation
No Parallel Attachments

Proposal 2459 - Observation 19 - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and m...

Tue Sep 19 20:00:11 GMT 2023

Observation	<p>Proposal 2459, Observation 19: NIRCcam - Repeat of (Obs 17) under WOPR 88539</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Grism Time Series</p>									
Diagnostics	(Visit 19:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(9)	HD-216898	RA: 22 55 42.4565 (343.9269021d) Dec: +62 18 22.77 (62.30632d) Equinox: J2000		Proper Motion RA: -1.1074190380937515E-4 sec of time/yr Proper Motion Dec: -0.0029340000764932483 arcsec/yr Epoch of Position: 2015.5					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[O stars]</i></p> <p><i>Extended=NO</i></p>									
Acquisition	#	Target	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	SUB32TATSGRIS M	F405N+F444W	RAPID	3	1	1	0.062	62582
Template	Subarray					No. of Output Channels				
	SUBGRISM128					4				
Spectral Elements	#	Short Pupil+Filter	Long Pupil+Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	CLEAR+WLP4	GRISMR+F322W2	RAPID	5	4	1	4	16.244	62582

Special Requirements

Time Series Observation
No Parallel Attachments

Proposal 2459 - Observation 18 - Completing the puzzle of interstellar dust grain compositions: combining extinction, depletion and m...

Tue Sep 19 20:00:11 GMT 2023

Observation	Proposal 2459, Observation 18: MIRI 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				
	(9)	HD-216898	RA: 22 55 42.4565 (343.9269021d) Dec: +62 18 22.77 (62.30632d) Equinox: J2000			Proper Motion RA: -1.1074190380937515E-4 sec of time/yr Proper Motion Dec: -0.0029340000764932483 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=[O stars] 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	62582				
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	F1130W	FASTR1	5	1	1	Dither 1	4	4	55.501	62582
	1	LONG(C)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62582
	1	LONG(C)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62582
	2		IMAGER	F1000W	FASTR1	5	1	1	Dither 1	4	4	55.501	62582
	2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62582
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62582
	3		IMAGER	F770W	FASTR1	5	1	1	Dither 1	4	4	55.501	62582
	3	SHORT(A)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	62582
	3	SHORT(A)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	62582