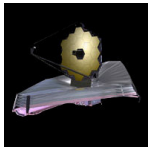

5554 - Ionization and Obscuration in LyC Emitters: A MIR Look at Lyman Continuum Escape

Cycle: 3, Proposal Category: GO

INVESTIGATORS

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OBSERVATIONS

Folder	*Observation*	*Label*	*Observing Template*	*Science Target*
Observation Folder				
	1	J0958+2025	MIRI Medium Resolution Spectroscopy	(1) J0958+2025
	2	J0958+2025 Bkg	MIRI Medium Resolution Spectroscopy	(2) J0958+2025-BACKGROUND
	3	J1442-0209	MIRI Medium Resolution Spectroscopy	(3) J1442-0209
	4	J1442-0209 Bkg	MIRI Medium Resolution Spectroscopy	(4) J1442-0209-BACKGROUND
	5	J1243+4646	MIRI Medium Resolution Spectroscopy	(5) J1243+4646
	6	J1243+4646 Bkg	MIRI Medium Resolution Spectroscopy	(6) J1243+4646-BACKGROUND
	7	J0036+0033	MIRI Medium Resolution Spectroscopy	(7) J0036+0033
	8	J0036+0033 Bkg	MIRI Medium Resolution Spectroscopy	(8) J0036+0033-BACKGROUND
	17	J0036+0033 - repeat of obs 7	MIRI Medium Resolution Spectroscopy	(7) J0036+0033
	18	J0036+0033 Bkg - repeat of obs 8	MIRI Medium Resolution Spectroscopy	(8) J0036+0033-BACKGROUND
	9	J1240+2127	MIRI Medium Resolution Spectroscopy	(9) J1240+2127
	10	J1240+2127 Bkg	MIRI Medium Resolution Spectroscopy	(10) J1240+2127-BACKGROUND
	11	J1333+6246	MIRI Medium Resolution Spectroscopy	(11) J1333+6246
	12	J1333+6246 Bkg	MIRI Medium Resolution Spectroscopy	(12) J1333+6246-BACKGROUND
	13	J1257+4102	MIRI Medium Resolution Spectroscopy	(13) J1257+4102
	14	J1257+4102 Bkg	MIRI Medium Resolution Spectroscopy	(14) J1257+4102-BACKGROUND
	15	J1152+3400	MIRI Medium Resolution Spectroscopy	(15) J1152+3400
	16	J1152+3400 Bkg	MIRI Medium Resolution Spectroscopy	(16) J1152+3400-BACKGROUND

ABSTRACT

At z>6, galaxies transformed the universe by releasing ionizing, Lyman continuum (LyC) photons and reionizing the intergalactic medium (IGM). However, which galaxies dominated reionization and how their LyC photons escaped remains unknown. Because of the high IGM opacity during the

epoch of reionization, we can only study the physics of LyC escape at lower redshift. We propose the first analysis of the MIR spectral properties of LyC-emitting galaxies. Using full-coverage MIRI MRS spectra of 4 of the strongest LyC emitters at z=0.3 and a matched control sample of 4 non-emitters, we will investigate the role of the ionizing spectrum and dust content in LyC escape. The full MIRI spectra will capture a suite of nebular lines from different ionization states, which span the energies of the predicted ionizing spectra. These lines will constrain the shape of the ionizing spectrum and show whether LyC-emitting galaxies are characterized by a harder radiation field or particular ionizing sources. Emission from the MIR dust continuum, PAH features, and H2 lines will demonstrate whether LyC emitters have weaker global dust absorption, a different grain size distribution, or a deficiency in neutral material. By connecting ionizing photon production, dust absorption, and LyC escape, these observations will provide new insights into the physics of LyC escape and reionization.

OBSERVING DESCRIPTION

We propose JWST/MIRI MRS observations of 8 galaxies at z=0.3, all of which have HST COS spectra of the rest-frame Lyman continuum. We plan to cover the full MIR spectrum and therefore request observations in each of the three MIRI wavelength range settings. Our sources are compact (expected FWHM < 0.43 arcsec), but they may have extended low surface brightness nebular emission. We therefore adopt the extended source four-point dither pattern, and we use the minimum number of integrations. Because of the possible spatial extent of our targets, we require dedicated background exposures in a non-interruptible sequence for the same exposure time as our sources. We choose background regions away from objects detected in the SDSS, Gaia, 2MASS, and WISE surveys, and we require that the edge of the Channel 4 field-of- view be > 50 kpc away at our target’s redshift during the background observation. To improve astrometric accuracy, we have chosen to enable the recommended simultaneous MIRI imaging using the F770W, F1000W, and F1130W filters to improve astrometric accuracy for the science targets. We reduce the number of groups and change the imaging subarray as needed to avoid saturating any objects within 140 arcsec of our targets or background pointings. For the target with the longest exposure time, we reduce the exposure time for the simultaneous imaging to stay under the lower data excess threshold. We do not need target acquisitions, as we do not require our pointing to be accurate to within 0.14”. We request low background observations for four targets, which are background-limited, as indicated by ETC calculations with low- vs. high-background options. Our total requested observation is 8.5 hours for science and background observations for a total request of 24.98 hours, including overhead.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	J0958+2025	RA: 09 58 38.4196 (149.6600817d) Dec: +20 25 7.63 (20.41879d) Equinox: J2000		
Comments: *Category=Galaxy* *Description=[Emission line galaxies, Starburst galaxies]* *Extended=YES*				
(2)	J0958+2025-BACKGROUND	RA: 09 58 38.4196 (149.6600817d) Dec: +20 25 7.63 (20.41879d) Equinox: J2000		
Comments: *Category=Calibration* *Description=[Telescope/sky background]*				
(3)	J1442-0209	RA: 14 42 31.3731 (220.6307212d) Dec: -02 09 52.08 (-2.16447d) Equinox: J2000		
Comments: *Category=Galaxy* *Description=[Emission line galaxies, Starburst galaxies]* *Extended=YES*				
(4)	J1442-0209-BACKGROUND	RA: 14 42 31.3731 (220.6307212d) Dec: -02 09 52.08 (-2.16447d) Equinox: J2000		
Comments: *Category=Calibration* *Description=[Telescope/sky background]*				
(5)	J1243+4646	RA: 12 43 0.6276 (190.7526150d) Dec: +46 46 50.55 (46.78071d) Equinox: J2000		
Comments: *Category=Galaxy* *Description=[Emission line galaxies, Starburst galaxies]* *Extended=YES*				
(6)	J1243+4646-BACKGROUND	RA: 12 43 0.6276 (190.7526150d) Dec: +46 46 50.55 (46.78071d) Equinox: J2000		
Comments: *Category=Calibration* *Description=[Telescope/sky background]*				
(7)	J0036+0033	RA: 00 36 0.6300 (9.0026250d) Dec: +00 33 7.25 (.55201d) Equinox: J2000		
Comments: *Category=Galaxy* *Description=[Emission line galaxies, Starburst galaxies]*				

(8)	J0036+0033-BACKGROUND	RA: 00 36 0.6300 (9.0026250d) Dec: +00 33 7.25 (.55201d) Equinox: J2000
Comments: *Category=Calibration* *Description=[Telescope/sky background]*		
(9)	J1240+2127	RA: 12 40 32.7900 (190.1366250d) Dec: +21 27 15.69 (21.45436d) Equinox: J2000
Comments: *Category=Galaxy* *Description=[Emission line galaxies, Starburst galaxies]*		
(10)	J1240+2127-BACKGROUND	RA: 12 40 32.7900 (190.1366250d) Dec: +21 27 15.69 (21.45436d) Equinox: J2000
Comments: *Category=Calibration* *Description=[Telescope/sky background]*		
(11)	J1333+6246	RA: 13 33 3.9600 (203.2665000d) Dec: +62 46 3.78 (62.76772d) Equinox: J2000
Comments: *Category=Galaxy* *Description=[Emission line galaxies, Starburst galaxies]*		
(12)	J1333+6246-BACKGROUND	RA: 13 33 3.9600 (203.2665000d) Dec: +62 46 3.78 (62.76772d) Equinox: J2000
Comments: *Category=Calibration* *Description=[Telescope/sky background]*		
(13)	J1257+4102	RA: 12 57 18.3300 (194.3263750d) Dec: +41 02 21.37 (41.03927d) Equinox: J2000
Comments: *Category=Galaxy* *Description=[Emission line galaxies, Starburst galaxies]*		
(14)	J1257+4102-BACKGROUND	RA: 12 57 18.3300 (194.3263750d) Dec: +41 02 21.37 (41.03927d) Equinox: J2000
Comments: *Category=Calibration* *Description=[Telescope/sky background]*		
(15)	J1152+3400	RA: 11 52 4.8800 (178.0203333d) Dec: +34 00 49.88 (34.01386d) Equinox: J2000
Comments: *Category=Galaxy* *Description=[Emission line galaxies, Starburst galaxies]*		

	(16)	J1152+3400-BACKGROUND	RA: 11 52 4.8800 (178.0203333d) Dec: +34 00 49.88 (34.01386d) Equinox: J2000
	Comments: *Category=Calibration* *Description=[Telescope/sky background]*		

Observation

Proposal 5554, Observation 1: J0958+2025 Mon Nov 25 21:00:25 GMT 2024

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Background Observations:[J0958+2025 Bkg (Obs 2)]

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)	J0958+2025	RA: 09 58 38.4196 (149.6600817d) Dec: +20 25 7.63 (20.41879d) Equinox: J2000		

Comments:
Category=Galaxy
Description=[Emission line galaxies, Starburst galaxies]
Extended=YES

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction
	All MRS	YES	FULL	Allow Auto Reorder

Dithers

#	Dither Type	Optimized For	Direction
1	4-Point	EXTENDED 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	9	1	Dither 1	4	36	588.308	
1	SHORT(A)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
1	SHORT(A)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	
2		IMAGER	F1000W	FASTR1	5	7	1	Dither 1	4	28	455.107	
2	MEDIUM(B)	MRSLONG		FASTR1	45	1	1	Dither 1	4	4	499.507	
2	MEDIUM(B)	MRSSHORT		FASTR1	45	1	1	Dither 1	4	4	499.507	
3		IMAGER	F1130W	FASTR1	5	9	1	Dither 1	4	36	588.308	
3	LONG(C)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
3	LONG(C)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	

Special Requirements	
	Background Limited. Background no more than 10th percentile above minimum Sequence Observations 2, 1 (reordered), Non-interruptible

Observation

Proposal 5554, Observation 2: J0958+2025 Bkg Mon Nov 25 21:00:25 GMT 2024

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Background Observation For: [J0958+2025 (Obs 1)]

Diagnostics

(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)	J0958+2025-BACKGROUND	RA: 09 58 38.4196 (149.6600817d) Dec: +20 25 7.63 (20.41879d) Equinox: J2000		

Comments:
Category=Calibration
Description=[Telescope/sky background]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction
	Imager	YES	FULL	Allow Auto Reorder

Dithers

#	Dither Type	Optimized For	Direction
1	4-Point	BACKGROUND	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	9	1	Dither 1	4	36	588.308	
1	SHORT(A)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
1	SHORT(A)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	
2		IMAGER	F1000W	FASTR1	5	7	1	Dither 1	4	28	455.107	
2	MEDIUM(B)	MRSLONG		FASTR1	45	1	1	Dither 1	4	4	499.507	
2	MEDIUM(B)	MRSSHORT		FASTR1	45	1	1	Dither 1	4	4	499.507	
3		IMAGER	F1130W	FASTR1	5	9	1	Dither 1	4	36	588.308	
3	LONG(C)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
3	LONG(C)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	

Special Requirements	Sequence Observations 2, 1 (reordered), Non-interruptible

Observation

Proposal 5554, Observation 3: J1442-0209 Mon Nov 25 21:00:25 GMT 2024

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Background Observations:[J1442-0209 Bkg (Obs 4)]

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
(3)	J1442-0209	RA: 14 42 31.3731 (220.6307212d) Dec: -02 09 52.08 (-2.16447d) Equinox: J2000		

Comments:
Category=Galaxy
Description=[Emission line galaxies, Starburst galaxies]
Extended=YES

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction
	All MRS	YES	FULL	Allow Auto Reorder

Dithers

#	Dither Type	Optimized For	Direction
1	4-Point	EXTENDED 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	9	1	Dither 1	4	36	588.308	
1	SHORT(A)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
1	SHORT(A)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	
2		IMAGER	F1000W	FASTR1	5	7	1	Dither 1	4	28	455.107	
2	MEDIUM(B)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
2	MEDIUM(B)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	
3		IMAGER	F1130W	FASTR1	5	9	1	Dither 1	4	36	588.308	
3	LONG(C)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
3	LONG(C)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	

Special Requirements	
	Background Limited. Background no more than 10th percentile above minimum Sequence Observations 4, 3 (reordered), Non-interruptible

Observation

Proposal 5554, Observation 4: J1442-0209 Bkg

Mon Nov 25 21:00:25 GMT 2024

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Background Observation For: [J1442-0209 (Obs 3)]

Diagnostics

(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)	J1442-0209-BACKGROUND	RA: 14 42 31.3731 (220.6307212d) Dec: -02 09 52.08 (-2.16447d) Equinox: J2000		

Comments:
Category=Calibration
Description=[Telescope/sky background]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction
	Imager	YES	FULL	Allow Auto Reorder

Dithers

#	Dither Type	Optimized For	Direction
1	4-Point	BACKGROUND	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	9	1	Dither 1	4	36	588.308	
1	SHORT(A)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
1	SHORT(A)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	
2		IMAGER	F1000W	FASTR1	5	7	1	Dither 1	4	28	455.107	
2	MEDIUM(B)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
2	MEDIUM(B)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	
3		IMAGER	F1130W	FASTR1	5	9	1	Dither 1	4	36	588.308	
3	LONG(C)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
3	LONG(C)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	

Special Requirements	Sequence Observations 4, 3 (reordered), Non-interruptible

Observation

Proposal 5554, Observation 5: J1243+4646 Mon Nov 25 21:00:25 GMT 2024

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Background Observations:[J1243+4646 Bkg (Obs 6)]

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
(5)	J1243+4646	RA: 12 43 0.6276 (190.7526150d) Dec: +46 46 50.55 (46.78071d) Equinox: J2000		

Comments:
Category=Galaxy
Description=[Emission line galaxies, Starburst galaxies]
Extended=YES

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction
	All MRS	YES	FULL	Allow Auto Reorder

Dithers

#	Dither Type	Optimized For	Direction
1	4-Point	EXTENDED 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	12	1	Dither 1	4	48	788.111	
1	SHORT(A)	MRSLONG		FASTR1	72	1	1	Dither 1	4	4	799.212	
1	SHORT(A)	MRSSHORT		FASTR1	72	1	1	Dither 1	4	4	799.212	
2		IMAGER	F1000W	FASTR1	5	9	1	Dither 1	4	36	588.308	
2	MEDIUM(B)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
2	MEDIUM(B)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	
3		IMAGER	F1130W	FASTR1	5	9	1	Dither 1	4	36	588.308	
3	LONG(C)	MRSLONG		FASTR1	63	1	1	Dither 1	4	4	699.31	
3	LONG(C)	MRSSHORT		FASTR1	63	1	1	Dither 1	4	4	699.31	

Special Requirements	Sequence Observations 6, 5 (reordered), Non-interruptible

Observation

Proposal 5554, Observation 6: J1243+4646 Bkg Mon Nov 25 21:00:25 GMT 2024

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Background Observation For: [J1243+4646 (Obs 5)]

Diagnostics

(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(6)	J1243+4646-BACKGROUND	RA: 12 43 0.6276 (190.7526150d) Dec: +46 46 50.55 (46.78071d) Equinox: J2000		

Comments:
Category=Calibration
Description=[Telescope/sky background]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction
	Imager	YES	FULL	Allow Auto Reorder

Dithers

#	Dither Type	Optimized For	Direction
1	4-Point	BACKGROUND	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	12	1	Dither 1	4	48	788.111	
1	SHORT(A)	MRSLONG		FASTR1	72	1	1	Dither 1	4	4	799.212	
1	SHORT(A)	MRSSHORT		FASTR1	72	1	1	Dither 1	4	4	799.212	
2		IMAGER	F1000W	FASTR1	5	9	1	Dither 1	4	36	588.308	
2	MEDIUM(B)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
2	MEDIUM(B)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	
3		IMAGER	F1130W	FASTR1	5	9	1	Dither 1	4	36	588.308	
3	LONG(C)	MRSLONG		FASTR1	63	1	1	Dither 1	4	4	699.31	
3	LONG(C)	MRSSHORT		FASTR1	63	1	1	Dither 1	4	4	699.31	

Special Requirements	
	Aperture PA Range 134.83544897 to 224.83544897 Degrees (V3 130.0 to 220.0) Sequence Observations 6, 5 (reordered), Non-interruptible

Observation

Proposal 5554, Observation 7: J0036+0033 Mon Nov 25 21:00:25 GMT 2024

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Background Observations:[J0036+0033 Bkg (Obs 8)]

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
(7)	J0036+0033	RA: 00 36 0.6300 (9.0026250d) Dec: +00 33 7.25 (.55201d) Equinox: J2000		

Comments:
Category=Galaxy
Description=[Emission line galaxies, Starburst galaxies]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction
	All MRS	YES	FULL	Allow Auto Reorder

Dithers

#	Dither Type	Optimized For	Direction
1	4-Point	EXTENDED 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	12	1	Dither 1	4	48	788.111	
1	SHORT(A)	MRSLONG		FASTR1	72	1	1	Dither 1	4	4	799.212	
1	SHORT(A)	MRSSHORT		FASTR1	72	1	1	Dither 1	4	4	799.212	
2		IMAGER	F1000W	FASTR1	5	9	1	Dither 1	4	36	588.308	
2	MEDIUM(B)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
2	MEDIUM(B)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	
3		IMAGER	F1130W	FASTR1	5	9	1	Dither 1	4	36	588.308	
3	LONG(C)	MRSLONG		FASTR1	63	1	1	Dither 1	4	4	699.31	
3	LONG(C)	MRSSHORT		FASTR1	63	1	1	Dither 1	4	4	699.31	

Special Requirements	
	Background Limited. Background no more than 10th percentile above minimum Sequence Observations 8, 7 (reordered), Non-interruptible

Observation

Proposal 5554, Observation 8: J0036+0033 Bkg Mon Nov 25 21:00:25 GMT 2024

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Background Observation For: [J0036+0033 (Obs 7)]

Diagnostics

(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(8)	J0036+0033-BACKGROUND	RA: 00 36 0.6300 (9.0026250d) Dec: +00 33 7.25 (.55201d) Equinox: J2000		

Comments:
Category=Calibration
Description=[Telescope/sky background]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction
	Imager	YES	FULL	Allow Auto Reorder

Dithers

#	Dither Type	Optimized For	Direction
1	4-Point	BACKGROUND	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	12	1	Dither 1	4	48	788.111	
1	SHORT(A)	MRSLONG		FASTR1	72	1	1	Dither 1	4	4	799.212	
1	SHORT(A)	MRSSHORT		FASTR1	72	1	1	Dither 1	4	4	799.212	
2		IMAGER	F1000W	FASTR1	5	9	1	Dither 1	4	36	588.308	
2	MEDIUM(B)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
2	MEDIUM(B)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	
3		IMAGER	F1130W	FASTR1	5	9	1	Dither 1	4	36	588.308	
3	LONG(C)	MRSLONG		FASTR1	63	1	1	Dither 1	4	4	699.31	
3	LONG(C)	MRSSHORT		FASTR1	63	1	1	Dither 1	4	4	699.31	

Special Requirements	
	Aperture PA Range 44.83544897 to 174.83544897 Degrees (V3 40.0 to 170.0) Sequence Observations 8, 7 (reordered), Non-interruptible

Observation

Proposal 5554, Observation 17: J0036+0033 - repeat of obs 7

Mon Nov 25 21:00:25 GMT 2024

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Background Observations:[J0036+0033 Bkg - repeat of obs 8 (Obs 18)]

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
(7)	J0036+0033	RA: 00 36 0.6300 (9.0026250d) Dec: +00 33 7.25 (.55201d) Equinox: J2000		

Comments:
Category=Galaxy
Description=[Emission line galaxies, Starburst galaxies]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction
	All MRS	YES	FULL	Allow Auto Reorder

Dithers

#	Dither Type	Optimized For	Direction
1	4-Point	EXTENDED 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	12	1	Dither 1	4	48	788.111	
1	SHORT(A)	MRSLONG		FASTR1	72	1	1	Dither 1	4	4	799.212	
1	SHORT(A)	MRSSHORT		FASTR1	72	1	1	Dither 1	4	4	799.212	
2		IMAGER	F1000W	FASTR1	5	9	1	Dither 1	4	36	588.308	
2	MEDIUM(B)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
2	MEDIUM(B)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	
3		IMAGER	F1130W	FASTR1	5	9	1	Dither 1	4	36	588.308	
3	LONG(C)	MRSLONG		FASTR1	63	1	1	Dither 1	4	4	699.31	
3	LONG(C)	MRSSHORT		FASTR1	63	1	1	Dither 1	4	4	699.31	

Special Requirements	
	Background Limited. Background no more than 10th percentile above minimum Sequence Observations 18, 17 (reordered), Non-interruptible

Observation

Proposal 5554, Observation 18: J0036+0033 Bkg - repeat of obs 8 Mon Nov 25 21:00:25 GMT 2024

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Background Observation For: [J0036+0033 - repeat of obs 7 (Obs 17)]

Diagnostics

(Visit 18:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(8)	J0036+0033-BACKGROUND	RA: 00 36 0.6300 (9.0026250d) Dec: +00 33 7.25 (.55201d) Equinox: J2000		

Comments:
Category=Calibration
Description=[Telescope/sky background]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction
	Imager	YES	FULL	Allow Auto Reorder

Dithers

#	Dither Type	Optimized For	Direction
1	4-Point	BACKGROUND	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	12	1	Dither 1	4	48	788.111	
1	SHORT(A)	MRSLONG		FASTR1	72	1	1	Dither 1	4	4	799.212	
1	SHORT(A)	MRSSHORT		FASTR1	72	1	1	Dither 1	4	4	799.212	
2		IMAGER	F1000W	FASTR1	5	9	1	Dither 1	4	36	588.308	
2	MEDIUM(B)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
2	MEDIUM(B)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	
3		IMAGER	F1130W	FASTR1	5	9	1	Dither 1	4	36	588.308	
3	LONG(C)	MRSLONG		FASTR1	63	1	1	Dither 1	4	4	699.31	
3	LONG(C)	MRSSHORT		FASTR1	63	1	1	Dither 1	4	4	699.31	

Special Requirements	
	Aperture PA Range 44.83544897 to 174.83544897 Degrees (V3 40.0 to 170.0) Sequence Observations 18, 17 (reordered), Non-interruptible

Observation

Proposal 5554, Observation 9: J1240+2127 Mon Nov 25 21:00:25 GMT 2024

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Background Observations:[J1240+2127 Bkg (Obs 10)]

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
(9)	J1240+2127	RA: 12 40 32.7900 (190.1366250d) Dec: +21 27 15.69 (21.45436d) Equinox: J2000		

Comments:
Category=Galaxy
Description=[Emission line galaxies, Starburst galaxies]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction
	All MRS	YES	FULL	Allow Auto Reorder

Dithers

#	Dither Type	Optimized For	Direction
1	4-Point	EXTENDED 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	9	1	Dither 1	4	36	588.308	
1	SHORT(A)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
1	SHORT(A)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	
2		IMAGER	F1000W	FASTR1	5	10	1	Dither 1	4	40	654.909	
2	MEDIUM(B)	MRSLONG		FASTR1	63	1	1	Dither 1	4	4	699.31	
2	MEDIUM(B)	MRSSHORT		FASTR1	63	1	1	Dither 1	4	4	699.31	
3		IMAGER	F1130W	FASTR1	5	9	1	Dither 1	4	36	588.308	
3	LONG(C)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
3	LONG(C)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	

Special Requirements	Sequence Observations 10, 9 (reordered), Non-interruptible

Observation

Proposal 5554, Observation 10: J1240+2127 Bkg Mon Nov 25 21:00:25 GMT 2024

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Background Observation For: [J1240+2127 (Obs 9)]

Diagnostics

(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(10)	J1240+2127-BACKGROUND	RA: 12 40 32.7900 (190.1366250d) Dec: +21 27 15.69 (21.45436d) Equinox: J2000		

Comments:
Category=Calibration
Description=[Telescope/sky background]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction
	Imager	YES	FULL	Allow Auto Reorder

Dithers

#	Dither Type	Optimized For	Direction
1	4-Point	BACKGROUND	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	9	1	Dither 1	4	36	588.308	
1	SHORT(A)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
1	SHORT(A)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	
2		IMAGER	F1000W	FASTR1	5	10	1	Dither 1	4	40	654.909	
2	MEDIUM(B)	MRSLONG		FASTR1	63	1	1	Dither 1	4	4	699.31	
2	MEDIUM(B)	MRSSHORT		FASTR1	63	1	1	Dither 1	4	4	699.31	
3		IMAGER	F1130W	FASTR1	5	9	1	Dither 1	4	36	588.308	
3	LONG(C)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
3	LONG(C)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	

Special Requirements	Sequence Observations 10, 9 (reordered), Non-interruptible

Observation

Proposal 5554, Observation 11: J1333+6246

Mon Nov 25 21:00:25 GMT 2024

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Background Observations:[J1333+6246 Bkg (Obs 12)]

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
(11)	J1333+6246	RA: 13 33 3.9600 (203.2665000d) Dec: +62 46 3.78 (62.76772d) Equinox: J2000		

Comments:
Category=Galaxy
Description=[Emission line galaxies, Starburst galaxies]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction
	All MRS	YES	FULL	Allow Auto Reorder

Dithers

#	Dither Type	Optimized For	Direction
1	4-Point	EXTENDED 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	12	1	Dither 1	4	48	788.111	
1	SHORT(A)	MRSLONG		FASTR1	72	1	1	Dither 1	4	4	799.212	
1	SHORT(A)	MRSSHORT		FASTR1	72	1	1	Dither 1	4	4	799.212	
2		IMAGER	F1000W	FASTR1	5	9	1	Dither 1	4	36	588.308	
2	MEDIUM(B)	MRSLONG		FASTR1	63	1	1	Dither 1	4	4	699.31	
2	MEDIUM(B)	MRSSHORT		FASTR1	63	1	1	Dither 1	4	4	699.31	
3		IMAGER	F1130W	FASTR1	5	9	1	Dither 1	4	36	588.308	
3	LONG(C)	MRSLONG		FASTR1	63	1	1	Dither 1	4	4	699.31	
3	LONG(C)	MRSSHORT		FASTR1	63	1	1	Dither 1	4	4	699.31	

Special Requirements	
	Background Limited. Background no more than 10th percentile above minimum Sequence Observations 12, 11 (reordered), Non-interruptible

Observation

Proposal 5554, Observation 12: J1333+6246 Bkg Mon Nov 25 21:00:25 GMT 2024

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Background Observation For: [J1333+6246 (Obs 11)]

Diagnostics

(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(12)	J1333+6246-BACKGROUND	RA: 13 33 3.9600 (203.2665000d) Dec: +62 46 3.78 (62.76772d) Equinox: J2000		

Comments:
Category=Calibration
Description=[Telescope/sky background]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction
	Imager	YES	FULL	Allow Auto Reorder

Dithers

#	Dither Type	Optimized For	Direction
1	4-Point	BACKGROUND	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	12	1	Dither 1	4	48	788.111	
1	SHORT(A)	MRSLONG		FASTR1	72	1	1	Dither 1	4	4	799.212	
1	SHORT(A)	MRSSHORT		FASTR1	72	1	1	Dither 1	4	4	799.212	
2		IMAGER	F1000W	FASTR1	5	9	1	Dither 1	4	36	588.308	
2	MEDIUM(B)	MRSLONG		FASTR1	63	1	1	Dither 1	4	4	699.31	
2	MEDIUM(B)	MRSSHORT		FASTR1	63	1	1	Dither 1	4	4	699.31	
3		IMAGER	F1130W	FASTR1	5	9	1	Dither 1	4	36	588.308	
3	LONG(C)	MRSLONG		FASTR1	63	1	1	Dither 1	4	4	699.31	
3	LONG(C)	MRSSHORT		FASTR1	63	1	1	Dither 1	4	4	699.31	

Special Requirements	Sequence Observations 12, 11 (reordered), Non-interruptible

Observation

Proposal 5554, Observation 13: J1257+4102

Mon Nov 25 21:00:25 GMT 2024

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Background Observations:[J1257+4102 Bkg (Obs 14)]

Diagnostics

(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(13)	J1257+4102	RA: 12 57 18.3300 (194.3263750d) Dec: +41 02 21.37 (41.03927d) Equinox: J2000		

Comments:
Category=Galaxy
Description=[Emission line galaxies, Starburst galaxies]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction
	All MRS	YES	FULL	Allow Auto Reorder

Dithers

#	Dither Type	Optimized For	Direction
1	4-Point	EXTENDED 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	12	1	Dither 1	4	48	788.111	
1	SHORT(A)	MRSLONG		FASTR1	72	1	1	Dither 1	4	4	799.212	
1	SHORT(A)	MRSSHORT		FASTR1	72	1	1	Dither 1	4	4	799.212	
2		IMAGER	F1000W	FASTR1	5	7	1	Dither 1	4	28	455.107	
2	MEDIUM(B)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
2	MEDIUM(B)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	
3		IMAGER	F1130W	FASTR1	5	9	1	Dither 1	4	36	588.308	
3	LONG(C)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
3	LONG(C)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	

Special Requirements	Sequence Observations 14, 13 (reordered), Non-interruptible

Observation

Proposal 5554, Observation 14: J1257+4102 Bkg Mon Nov 25 21:00:25 GMT 2024

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Background Observation For: [J1257+4102 (Obs 13)]

Diagnostics

(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(14)	J1257+4102-BACKGROUND	RA: 12 57 18.3300 (194.3263750d) Dec: +41 02 21.37 (41.03927d) Equinox: J2000		

Comments:
Category=Calibration
Description=[Telescope/sky background]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction
	Imager	YES	FULL	Allow Auto Reorder

Dithers

#	Dither Type	Optimized For	Direction
1	4-Point	BACKGROUND	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	12	1	Dither 1	4	48	788.111	
1	SHORT(A)	MRSLONG		FASTR1	72	1	1	Dither 1	4	4	799.212	
1	SHORT(A)	MRSSHORT		FASTR1	72	1	1	Dither 1	4	4	799.212	
2		IMAGER	F1000W	FASTR1	5	7	1	Dither 1	4	28	455.107	
2	MEDIUM(B)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
2	MEDIUM(B)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	
3		IMAGER	F1130W	FASTR1	5	9	1	Dither 1	4	36	588.308	
3	LONG(C)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
3	LONG(C)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	

Special Requirements	
	Aperture PA Range 174.83544897 to 144.83544897 Degrees (V3 170.0 to 140.0) Sequence Observations 14, 13 (reordered), Non-interruptible

Observation

Proposal 5554, Observation 15: J1152+3400 Mon Nov 25 21:00:25 GMT 2024

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Background Observations:[J1152+3400 Bkg (Obs 16)]

Diagnostics

(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(15)	J1152+3400	RA: 11 52 4.8800 (178.0203333d) Dec: +34 00 49.88 (34.01386d) Equinox: J2000		

Comments:
Category=Galaxy
Description=[Emission line galaxies, Starburst galaxies]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction
	All MRS	YES	FULL	Allow Auto Reorder

Dithers

#	Dither Type	Optimized For	Direction
1	4-Point	EXTENDED 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	9	1	Dither 1	4	36	588.308	
1	SHORT(A)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
1	SHORT(A)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	
2		IMAGER	F1000W	FASTR1	5	7	1	Dither 1	4	28	455.107	
2	MEDIUM(B)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
2	MEDIUM(B)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	
3		IMAGER	F1130W	FASTR1	5	9	1	Dither 1	4	36	588.308	
3	LONG(C)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
3	LONG(C)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	

Special Requirements	Sequence Observations 16, 15 (reordered), Non-interruptible

Observation

Proposal 5554, Observation 16: J1152+3400 Bkg Mon Nov 25 21:00:25 GMT 2024

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Background Observation For: [J1152+3400 (Obs 15)]

Diagnostics

(Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(16)	J1152+3400-BACKGROUND	RA: 11 52 4.8800 (178.0203333d) Dec: +34 00 49.88 (34.01386d) Equinox: J2000		

Comments:
Category=Calibration
Description=[Telescope/sky background]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction
	Imager	YES	FULL	Allow Auto Reorder

Dithers

#	Dither Type	Optimized For	Direction
1	4-Point	BACKGROUND	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	9	1	Dither 1	4	36	588.308	
1	SHORT(A)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
1	SHORT(A)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	
2		IMAGER	F1000W	FASTR1	5	7	1	Dither 1	4	28	455.107	
2	MEDIUM(B)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
2	MEDIUM(B)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	
3		IMAGER	F1130W	FASTR1	5	9	1	Dither 1	4	36	588.308	
3	LONG(C)	MRSLONG		FASTR1	54	1	1	Dither 1	4	4	599.409	
3	LONG(C)	MRSSHORT		FASTR1	54	1	1	Dither 1	4	4	599.409	

Special Requirements	Sequence Observations 16, 15 (reordered), Non-interruptible