



# 1386 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Cycle: 1, Proposal Category: ERS

## INVESTIGATORS

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JWST Proposal 1386 (Created: Wednesday, September 7, 2022 at 5:00:42 PM Eastern Standard Time) - Overview

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**OBSERVATIONS**

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
HIP 65426				
	1	NIRCam 335R - REF	NIRCam Coronagraphic Imaging	(2) HIP-68245
	2	NIRCam 335R - Roll 1	NIRCam Coronagraphic Imaging	(1) HIP-65426
	3	NIRCam 335R - Roll 2	NIRCam Coronagraphic Imaging	(1) HIP-65426
	5	MIRI 1140C - Roll 1	MIRI Coronagraphic Imaging	(1) HIP-65426
	4	MIRI 1140C - Roll 2	MIRI Coronagraphic Imaging	(1) HIP-65426
	6	MIRI 1140C - REF	MIRI Coronagraphic Imaging	(2) HIP-68245
	7	MIRI 1550C - REF	MIRI Coronagraphic Imaging	(2) HIP-68245
	8	MIRI 1550C - Roll 1	MIRI Coronagraphic Imaging	(1) HIP-65426
	9	MIRI 1550C - Roll 2	MIRI Coronagraphic Imaging	(1) HIP-65426

JWST Proposal 1386 (Created: Wednesday, September 7, 2022 at 5:00:42 PM Eastern Standard Time) - Overview

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	10	NIRISS AMI - REF 1	NIRISS Aperture Masking Interferometry	(8) HD-115842
	11	NIRISS AMI - Target	NIRISS Aperture Masking Interferometry	(1) HIP-65426
	12	NIRISS AMI - REF 2	NIRISS Aperture Masking Interferometry	(9) HD-116084
	28	MIRI 1140C - Target B G	MIRI Coronagraphic Imaging	(10) HIP-65426-BACKGROUND
	29	MIRI 1140C - REF BG	MIRI Coronagraphic Imaging	(10) HIP-65426-BACKGROUND
	30	MIRI 1550C - Target B G	MIRI Coronagraphic Imaging	(10) HIP-65426-BACKGROUND
	31	MIRI 1550C - REF BG	MIRI Coronagraphic Imaging	(10) HIP-65426-BACKGROUND
<b>VHS 1256b</b>				
	13	NIRSpec IFU	NIRSpec IFU Spectroscopy	(4) VHS-1256B
	14	MIRI MRS	MIRI Medium Resolution Spectroscopy	(4) VHS-1256B
	15	MIRI MRS - BG	MIRI Medium Resolution Spectroscopy	(5) VHS-1256B-BACKGROUND
<b>HD 141569A</b>				
	16	NIRCam 335R - REF	NIRCam Coronagraphic Imaging	(7) HD-140986
	18	NIRCam 335R - Roll 2	NIRCam Coronagraphic Imaging	(6) HD-141569A
	17	NIRCam 335R - Roll 1	NIRCam Coronagraphic Imaging	(6) HD-141569A
	38	NIRCam 335R - REF	NIRCam Coronagraphic Imaging	(7) HD-140986
	19	MIRI F1065C - Roll 1	MIRI Coronagraphic Imaging	(6) HD-141569A
	20	MIRI F1065C - Roll 2	MIRI Coronagraphic Imaging	(6) HD-141569A
	21	MIRI F1065C - REF	MIRI Coronagraphic Imaging	(7) HD-140986
	22	MIRI F1140C - Roll 1	MIRI Coronagraphic Imaging	(6) HD-141569A
	23	MIRI F1140C - Roll 2	MIRI Coronagraphic Imaging	(6) HD-141569A
	24	MIRI F1140C - REF	MIRI Coronagraphic Imaging	(7) HD-140986
	25	MIRI F1550C - Roll 1	MIRI Coronagraphic Imaging	(6) HD-141569A
	26	MIRI F1550C - Roll 2	MIRI Coronagraphic Imaging	(6) HD-141569A
	27	MIRI F1550C - REF	MIRI Coronagraphic Imaging	(7) HD-140986
	32	MIRI F1065C - Target BG	MIRI Coronagraphic Imaging	(11) HD-141569A-BACKGROUND
	33	MIRI F1065C - REF B G	MIRI Coronagraphic Imaging	(11) HD-141569A-BACKGROUND
	34	MIRI F1140C - Target BG	MIRI Coronagraphic Imaging	(11) HD-141569A-BACKGROUND

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	35	MIRI F1140C - REF B G	MIRI Coronagraphic Imaging	(11) HD-141569A-BACKGROUND
	36	MIRI F1550C - Target BG	MIRI Coronagraphic Imaging	(11) HD-141569A-BACKGROUND
	37	MIRI F1550C - REF B G	MIRI Coronagraphic Imaging	(11) HD-141569A-BACKGROUND
	116	NIRCam 335R - REF	NIRCam Coronagraphic Imaging	(7) HD-140986
	117	NIRCam 335R - Roll 2	NIRCam Coronagraphic Imaging	(6) HD-141569A
	118	NIRCam 335R - Roll 1	NIRCam Coronagraphic Imaging	(6) HD-141569A
	138	NIRCam 335R - REF	NIRCam Coronagraphic Imaging	(7) HD-140986

## ABSTRACT

JWST will transform our ability to characterize directly imaged planets and circumstellar debris disks, including the first spectroscopic characterization of directly imaged exoplanets at wavelengths beyond 5 microns, providing a powerful diagnostic of cloud particle properties, atmospheric structure, and composition. To lay the groundwork for these science goals, we propose a 39-hour ERS program to rapidly establish optimal strategies for JWST high contrast imaging. We will acquire: a) coronagraphic imaging of a newly discovered exoplanet companion, and a well-studied circumstellar debris disk with NIRCam & MIRI; b) spectroscopy of a wide separation planetary mass companion with NIRSPEC & MIRI; and c) deep aperture masking interferometry with NIRISS. Our primary goals are to: 1) generate representative datasets in modes to be commonly used by the exoplanet and disk imaging communities; 2) deliver science enabling products to empower a broad user base to develop successful future investigations; and 3) carry out breakthrough science by characterizing exoplanets for the first time over their full spectral range from 2-28 microns, and debris disk spectrophotometry out to 15 microns sampling the 3 micron water ice feature. Our team represents the majority of the community dedicated to exoplanet and disk imaging and has decades of experience with high contrast imaging algorithms and pipelines. We have developed a collaboration management plan and several organized working groups to ensure we can rapidly and effectively deliver high quality Science Enabling Products to the community. Proposal NOI 171; co-PI's Andrew Skemer (UCSC) & Beth Biller (Edinburgh).

## OBSERVING DESCRIPTION

This program will utilize all four instruments aboard JWST to achieve its goals through the following observations: 1) NIRCam and MIRI coronagraphic imaging of the newly discovered exoplanet HIP 65426b; 2) NIRISS Aperture Masking Interferometry (AMI) of the same star system, HIP 65426; 3) NIRCam and MIRI coronagraphic imaging of the young debris disk around HD 141569A; and 4) NIRSPEC and MIRI spectroscopy, and NIRCam Imaging of VHS 1256b, a wide-separation planetary mass companion.

We will perform coronagraphic observations of the exoplanet host star HIP 65426 at two separate roll angles with both NIRCcam and MIRI. Reference observations will be performed on the nearby star HIP 65219. Each NIRCcam observation will use the 430R mask with the F250M, F300M, F430M, F356W and F444W filters for ~1200, 1200, 1200, 600 and 600 seconds respectively. Note that the current version of APT prohibits the F300M/F356W filters being used with the 430R mask, this will be changed with APT 25.4 this fall and as such the F410M and F322W2 filters are being used as placeholders. The SUB320 subarray in addition to the MEDIUM8 pattern have been selected to avoid detector saturation and maximise the achievable SNR. Each MIRI observation will use both the 1140C and 1550C 4QPM's with their paired filters for ~1000s and 3600s respectively.

The NIRISS AMI observation of HIP 65426 will be performed at F380M using the SUB80 subarray with the NISRAPID readout pattern, in staring mode as recommended by the documentation. The observing set-up was designed to reach the systematic noise floor within the appropriate number of groups and integrations. *del Cru* and *bet Lup* will be observed to calibrate the fringes and will bracket the observation of the science target. Direct imaging of the science target will also be obtained for flux and PSF calibration.

To benefit from the best calibration strategies, in addition to reducing observatory overheads, all observations of HIP 65426 should be executed in a non-interruptible sequence. To enable effective roll-subtracted corrections the aperture offset between roll angles should be within 10-14 degrees.

The observations of HD 141569A with both NIRCcam and MIRI will be performed at two separate roll angles in order to obtain 360 degree azimuthal coverage of the disk, to identify systematics, and to characterize different PSF subtraction strategies. Reference observations will be performed on the nearby star *u Cen*. Each NIRCcam observation consists of five exposures using the 335R mask with the F300M and F360M filters for ~400 seconds each. The SUB320 subarray in addition to the DEEP2 pattern have been selected to avoid detector saturation and maximise the achievable SNR. Each MIRI observation will use the 1550C 4QPM with its paired filter for ~1700s.

To benefit from the best calibration strategies, in addition to reducing observatory overheads, all observations of HR 4796A should be executed in a non-interruptible sequence. In addition, to enable successful PSF subtraction and characterize different PSF subtraction strategies, 5 point dither strategies (with the same total exposure time) will be used for both observations of the calibrator star *u Cen*.

NIRSpec and MIRI Spectroscopy of VHS 1256b will be performed using the NIRSpec Integral Field Unit (IFU) and the MIRI Medium Resolution Spectrometer. Due to the companion's large separation of 8.1", the companion itself will be centered within the fields of view, as such the host is likely to be outside of the fields of view for each observation. The NIRSpec IFU observation will use both the G235H and the G395H grisms, with exposures of ~550 seconds, at two dither positions to improve the sensitivity and reduce detector effects. The MIRI MRS observation will be performed in all four channels with all three dispersers, across each channel we will observe for ~720 seconds at two separate dither positions. In

addition simultaneous imaging will be performed with the MIRI F770W filter to provide astrometry that will enable accurate reconstruction of the dithered MRS observations. Similarly to the NIRSpec IFU observation, the two dither positions will improve the sensitivity and reduce detector effects.

To enhance the science return and to test the flux calibration of the NIRSpec IFU we will perform NIRCам Dual-Band Imaging of VHS 1256b. In particular we will observe for ~12 seconds with both the F140M-F356W and F182M-F444W pairings at two dither positions, using the the SUB64P subarray to prevent detector saturation.

In summary, the charged times per observation are as follows: 1) Coronagraphy of HIP 65426b, ~15.6 hours; 2) AMI of HIP 65426, ~6.9 hours; 3) Coronagraphy of HD 141569A, ~11.6 hours; and 4) Spectroscopy and Imaging of VHS 1256b, ~4.7 hours. This results in a total charged time of 38.8 hours, 18.4 hours of which constitute on target science time.

# Proposal 1386 - Targets - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	HIP-65426	RA: 13 24 36.0980 (201.1504083d) Dec: -51 30 16.05 (-51.50446d) Equinox: J2000	Proper Motion RA: -33.923 mas/yr Proper Motion Dec: -18.955 mas/yr Epoch of Position: 2000	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>2MASS J Magnitude = 6.826 2MASS K Magnitude = 6.771</p> <p><i>Proper Motions and Magnitude from Chauvin et al., 2017</i> Category=Star Description=[A dwarfs, Exoplanet Systems, Exoplanets] Extended=NO</p>				
(2)	HIP-68245	RA: 13 58 16.2351 (209.5676462d) Dec: -42 06 3.03 (-42.10084d) Equinox: J2000	Proper Motion RA: -0.002045915838547325 sec of time/yr Proper Motion Dec: -0.02012999993894482 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>2MASS J Magnitude = 4.628 2MASS K Magnitude = 4.491 Category=Calibration Description=[A stars, Point spread function]</p>				
(4)	VHS-1256B	RA: 12 56 1.5860 (194.0066083d) Dec: -12 57 30.31 (-12.95842d) Equinox: J2000	Proper Motion RA: -275.4 mas/yr Proper Motion Dec: -198.4 mas/yr Epoch of Position: 2011.7	
<p><i>Comments: J2000 Coordinates, proper motion and magnitude from Gauza et al, 2015</i></p> <p>2MASS J Magnitude = 16.662 2MASS K Magnitude = 14.57 Category=Star Description=[Exoplanets]</p>				
(5)	VHS-1256B-BACKGROUND	RA: 12 56 6.7300 (194.0280417d) Dec: -12 55 48.70 (-12.93019d) Equinox: J2000		
<p><i>Comments:</i> Category=Calibration Description=[Telescope/sky background] Extended=YES</p>				
(6)	HD-141569A	RA: 15 49 57.7302 (237.4905425d) Dec: -03 55 16.64 (-3.92129d) Equinox: J2000	Proper Motion RA: -0.0011780913171412662 sec of time/yr Proper Motion Dec: -0.018953000039800827 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>2MASS J Magnitude = 6.872 2MASS K Magnitude = 6.821 Category=Star Description=[A stars, Circumstellar disks, Exoplanet Systems, Pre-main sequence stars]</p>				

Fixed Targets

## Proposal 1386 - Targets - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

(7)	HD-140986	RA: 15 46 45.4121 (236.6892171d) Dec: -06 07 13.28 (-6.12036d) Equinox: J2000	Proper Motion RA: -7.835997527072547E-4 sec of time/yr Proper Motion Dec: 6.2E-5 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>2MASS J Magnitude: 4.363 2MASS K Magnitude: 3.643 Category=Calibration Description=[Point spread function]</p>			
(8)	HD-115842	RA: 13 20 48.3327 (200.2013863d) Dec: -55 48 2.43 (-55.80068d) Equinox: J2000	Proper Motion RA: -4.2865082753974006E-4 sec of time/yr Proper Motion Dec: 0.00359499999999997 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>2MASS J-band Magnitude: 5.344 2MASS K-band Magnitude: 5.175 Category=Calibration Description=[G stars]</p>			
(9)	HD-116084	RA: 13 22 16.2799 (200.5678329d) Dec: -52 10 58.64 (-52.18296d) Equinox: J2000	Proper Motion RA: -4.054525165371611E-4 sec of time/yr Proper Motion Dec: -5.819999842060497E-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></p> <p>2MASS J-band Magnitude: 5.576 2MASS K-band Magnitude: 5.469 Category=Calibration Description=[G stars]</p>			
(10)	HIP-65426-BACKGROUND	RA: 13 24 44.2915 (201.1845479d) Dec: -51 29 31.54 (-51.49209d) Equinox: J2000	
<p><i>Comments:</i> Category=Calibration Description=[Photometric]</p>			
(11)	HD-141569A-BACKGROUND	RA: 15 50 3.4013 (237.5141721d) Dec: -03 55 46.33 (-3.92954d) Equinox: J2000	
<p><i>Comments:</i> Category=Calibration Description=[Photometric]</p>			



# Proposal 1386 - Observation 1 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 1: NIRCam 335R - REF</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRCam Coronagraphic Imaging									
	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(2)	HIP-68245	RA: 13 58 16.2351 (209.5676462d) Dec: -42 06 3.03 (-42.10084d) Equinox: J2000		Proper Motion RA: -0.002045915838547325 sec of time/yr Proper Motion Dec: -0.02012999993894482 arcsec/yr Epoch of Position: 2015.5					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> 2MASS J Magnitude = 4.628 2MASS K Magnitude = 4.491 Category=Calibration Description=[A stars, Point spread function]										
<b>Acquisition</b>	<b>#</b>	<b>Target</b>	<b>Filter</b>	<b>Target Brightness</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	SAME	F335M	BRIGHT (ND Square)	BRIGHT2	33	1	1	3.363	27274.5
<b>Template</b>	<b>Module</b>	<b>Coronagraphic Mask</b>			<b>Obtain Astrometric Confirmation Images?</b>		<b>Subarray</b>	<b>Dither Pattern</b>		
	A	MASK335R			true		SUB320A335R	9-POINT-CIRCLE		
<b>Confirmation</b>	<b>#</b>	<b>Conf. Readout Pattern</b>	<b>Conf. Groups/Int</b>	<b>Conf. Integrations/Exp</b>	<b>Conf. Total Integrations</b>	<b>Conf. Total Exposure Time</b>	<b>Conf. Total Dithers</b>			
	1	RAPID	3	1	1	32.21	1			
<b>Spectral Elements</b>	<b>#</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>	
	1	F250M	MEDIUM8	4	4	9	36	1501.669		
	2	F300M	MEDIUM8	4	4	9	36	1501.669		
	3	F410M	MEDIUM8	4	2	9	18	750.835		
	4	F356W	MEDIUM8	4	2	9	18	750.835		
	5	F444W	MEDIUM8	4	2	9	18	750.835		

# Proposal 1386 - Observation 1 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

<b>PSF References</b>	PSF Reference: true
<b>Special Requirements</b>	Before Date 01-OCT-2022:00:00:00 No Parallel Sequence Observations 1, 2, 3, 10, 11, 12, Non-interruptible

Proposal 1386 - Observation 2 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 2: NIRCam 335R - Roll 1</b> <b>Diagnostic Status: Error</b> Observing Template: NIRCam Coronagraphic Imaging Background Observations:[]																																																															
	(NIRCam 335R - Roll 1 (Obs 2)) Error (Form): This target requires similar background exposures that are linked in a non-interruptible sequence. (NIRCam 335R - Roll 1 (Obs 2)) Warning (Form): Use of background targets not expected with this template (Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																															
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="3">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>HIP-65426</td> <td>RA: 13 24 36.0980 (201.1504083d) Dec: -51 30 16.05 (-51.50446d) Equinox: J2000</td> <td colspan="3">Proper Motion RA: -33.923 mas/yr Proper Motion Dec: -18.955 mas/yr Epoch of Position: 2000</td> <td colspan="4"></td> </tr> <tr> <td colspan="10"> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>                      2MASS J Magnitude = 6.826                      2MASS K Magnitude = 6.771                      Proper Motions and Magnitude from Chauvin et al., 2017                      Category=Star                      Description=[A dwarfs, Exoplanet Systems, Exoplanets]                      Extended=NO                 </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous				(1)	HIP-65426	RA: 13 24 36.0980 (201.1504083d) Dec: -51 30 16.05 (-51.50446d) Equinox: J2000	Proper Motion RA: -33.923 mas/yr Proper Motion Dec: -18.955 mas/yr Epoch of Position: 2000							<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> 2MASS J Magnitude = 6.826 2MASS K Magnitude = 6.771 Proper Motions and Magnitude from Chauvin et al., 2017 Category=Star Description=[A dwarfs, Exoplanet Systems, Exoplanets] Extended=NO																																	
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# Proposal 1386 - Observation 2 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

<b>PSF References</b>	NIRCam 335R - REF (Obs 1) (PSF Reference; Filters [F356W, F444W, F250M, F300M, F410M]) Additional Justification: false
<b>Special Requirements</b>	No Parallel Sequence Observations 1, 2, 3, 10, 11, 12, Non-interruptible Aperture PA Offset 3 from 2 by 10 to 14 Degrees (Same offsets in V3)

Proposal 1386 - Observation 3 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 3: NIRCam 335R - Roll 2</b> <b>Diagnostic Status: Error</b> Observing Template: NIRCam Coronagraphic Imaging Background Observations:[]																																																															
	(NIRCam 335R - Roll 2 (Obs 3)) Error (Form): This target requires similar background exposures that are linked in a non-interruptible sequence. (NIRCam 335R - Roll 2 (Obs 3)) Warning (Form): Use of background targets not expected with this template (Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																															
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# Proposal 1386 - Observation 3 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

<b>PSF References</b>	NIRCam 335R - REF (Obs 1) (PSF Reference; Filters [F356W, F444W, F250M, F300M, F410M]) Additional Justification: false
<b>Special Requirements</b>	No Parallel Sequence Observations 1, 2, 3, 10, 11, 12, Non-interruptible Aperture PA Offset 3 from 2 by 10 to 14 Degrees (Same offsets in V3)

Proposal 1386 - Observation 5 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 5: MIRI 1140C - Roll 1</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Coronagraphic Imaging Background Observations:[MIRI 1140C - Roll 2 (Obs 4), MIRI 1550C - Roll 1 (Obs 8), MIRI 1550C - Roll 2 (Obs 9), MIRI 1140C - Target BG (Obs 28), MIRI 1140C - REF BG (Obs 29), MIRI 1550C - Target BG (Obs 30), MIRI 1550C - REF BG (Obs 31)]																																		
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# Proposal 1386 - Observation 5 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

<b>PSF References</b>	MIRI 1140C - REF (Obs 6) (PSF Reference; Filters [F1140C]) Additional Justification: false
<b>Special Requirements</b>	Before Date 01-OCT-2022:00:00:00 Aperture PA Range 100 to 120 Degrees (V3 95.16455103 to 115.16455103) Offset 0.2185 arcsec, 0.1273 arcsec No Parallel  Sequence Observations 4, 5, 6, 7, 8, 9, 28, 29, 30, 31, Non-interruptible Aperture PA Offset 5 from 4 by 9 to 14 Degrees (Same offsets in V3)



# Proposal 1386 - Observation 4 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 4: MIRI 1140C - Roll 2</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Coronagraphic Imaging Background Observations:[MIRI 1140C - Roll 1 (Obs 5), MIRI 1550C - Roll 1 (Obs 8), MIRI 1550C - Roll 2 (Obs 9), MIRI 1140C - Target BG (Obs 28), MIRI 1140C - REF BG (Obs 29), MIRI 1550C - Target BG (Obs 30), MIRI 1550C - REF BG (Obs 31)]																																		
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<b>Spectral Elements</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Coron Mask/Filter</th> <th>Mask</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4QPM/F1140C</td> <td>4QPM</td> <td>F1140C</td> <td>FASTR1</td> <td>101</td> <td>41</td> <td>1</td> <td>1</td> <td>41</td> <td>1002.102</td> <td></td> </tr> </tbody> </table>											#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	4QPM/F1140C	4QPM	F1140C	FASTR1	101	41	1	1	41	1002.102	
	#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																							
1	4QPM/F1140C	4QPM	F1140C	FASTR1	101	41	1	1	41	1002.102																									

# Proposal 1386 - Observation 4 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

PSF References	MIRI 1140C - REF (Obs 6) (PSF Reference; Filters [F1140C]) Additional Justification: false
Special Requirements	Aperture PA Range 100 to 120 Degrees (V3 95.16455103 to 115.16455103) Offset 0.2185 arcsec, 0.1273 arcsec No Parallel  Sequence Observations 4, 5, 6, 7, 8, 9, 28, 29, 30, 31, Non-interruptible Aperture PA Offset 5 from 4 by 9 to 14 Degrees (Same offsets in V3)

Proposal 1386 - Observation 6 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 6: MIRI 1140C - REF</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Coronagraphic Imaging											
	(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(2)	HIP-68245	RA: 13 58 16.2351 (209.5676462d) Dec: -42 06 3.03 (-42.10084d) Equinox: J2000			Proper Motion RA: -0.002045915838547325 sec of time/yr Proper Motion Dec: -0.02012999993894482 arcsec/yr Epoch of Position: 2015.5						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> 2MASS J Magnitude = 4.628 2MASS K Magnitude = 4.491 Category=Calibration Description=[A stars, Point spread function]												
<b>Acquisition</b>	#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID		
	1	SAME	FND	1	FAST	8	1	1	1.917	27274.6		
<b>Template</b>	<b>Repeat observation</b>											
	NO											
<b>Dithers</b>	#	<b>Dither Type</b>										
	1	9-POINT-SMALL-GRID										
<b>Spectral Elements</b>	#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1140C	4QPM	F1140C	FASTR1	52	10	1	9	90	1141.116	

Proposal 1386 - Observation 6 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

PSF References	PSF Reference: true
Special Requirements	Offset 0.2185 arcsec, 0.1273 arcsec No Parallel Sequence Observations 4, 5, 6, 7, 8, 9, 28, 29, 30, 31, Non-interruptible

Proposal 1386 - Observation 7 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<p><b>Proposal 1386, Observation 7: MIRI 1550C - REF</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Coronagraphic Imaging</p>											
<b>Diagnostics</b>	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(2)	HIP-68245	RA: 13 58 16.2351 (209.5676462d) Dec: -42 06 3.03 (-42.10084d) Equinox: J2000			Proper Motion RA: -0.002045915838547325 sec of time/yr Proper Motion Dec: -0.02012999993894482 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>2MASS J Magnitude = 4.628 2MASS K Magnitude = 4.491 Category=Calibration Description=[A stars, Point spread function]</p>											
<b>Acquisition</b>	#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID		
	1	SAME	FND	1	FAST	8	1	1	1.917	27274.7		
<b>Template</b>	<p><b>Repeat observation</b></p> <p>NO</p>											
<b>Dithers</b>	#	<b>Dither Type</b>										
	1	9-POINT-SMALL-GRID										
<b>Spectral Elements</b>	#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1550C	4QPM	F1550C	FASTR1	100	19	1	9	171	4137.356	

Proposal 1386 - Observation 7 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

PSF References	PSF Reference: true
Special Requirements	Offset 0.226 arcsec, 0.156 arcsec No Parallel Sequence Observations 4, 5, 6, 7, 8, 9, 28, 29, 30, 31, Non-interruptible

Proposal 1386 - Observation 8 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 8: MIRI 1550C - Roll 1</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Coronagraphic Imaging Background Observations:[MIRI 1140C - Roll 1 (Obs 5), MIRI 1140C - Roll 2 (Obs 4), MIRI 1550C - Roll 2 (Obs 9), MIRI 1140C - Target BG (Obs 28), MIRI 1140C - REF BG (Obs 29), MIRI 1550C - Target BG (Obs 30), MIRI 1550C - REF BG (Obs 31)]																																		
	(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																		
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>HIP-65426</td> <td>RA: 13 24 36.0980 (201.1504083d) Dec: -51 30 16.05 (-51.50446d) Equinox: J2000</td> <td>Proper Motion RA: -33.923 mas/yr Proper Motion Dec: -18.955 mas/yr Epoch of Position: 2000</td> <td></td> </tr> <tr> <td colspan="5"> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>                      2MASS J Magnitude = 6.826                      2MASS K Magnitude = 6.771                      Proper Motions and Magnitude from Chauvin et al., 2017                      Category=Star                      Description=[A dwarfs, Exoplanet Systems, Exoplanets]                      Extended=NO                 </td> </tr> </tbody> </table>											#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(1)	HIP-65426	RA: 13 24 36.0980 (201.1504083d) Dec: -51 30 16.05 (-51.50446d) Equinox: J2000	Proper Motion RA: -33.923 mas/yr Proper Motion Dec: -18.955 mas/yr Epoch of Position: 2000		<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> 2MASS J Magnitude = 6.826 2MASS K Magnitude = 6.771 Proper Motions and Magnitude from Chauvin et al., 2017 Category=Star Description=[A dwarfs, Exoplanet Systems, Exoplanets] Extended=NO													
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#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																										
1	SAME	FND	1	FAST	44	1	1	10.546	27274.3																										
<b>Template</b>	<b>Repeat observation</b> NO																																		
<b>Dithers</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NONE</td> </tr> </tbody> </table>											#	Dither Type	1	NONE																				
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#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																								
1	4QPM/F1550C	4QPM	F1550C	FASTR1	250	60	1	1	60	3609.341																									

# Proposal 1386 - Observation 8 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

<b>PSF References</b>	MIRI 1550C - REF (Obs 7) (PSF Reference; Filters [F1550C]) Additional Justification: false
<b>Special Requirements</b>	Aperture PA Range 100 to 120 Degrees (V3 95.16455103 to 115.16455103) Offset 0.226 arcsec, 0.156 arcsec No Parallel  Sequence Observations 4, 5, 6, 7, 8, 9, 28, 29, 30, 31, Non-interruptible Aperture PA Offset 9 from 8 by 9 to 14 Degrees (Same offsets in V3)



Proposal 1386 - Observation 9 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 9: MIRI 1550C - Roll 2</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Coronagraphic Imaging Background Observations:[MIRI 1140C - Roll 1 (Obs 5), MIRI 1140C - Roll 2 (Obs 4), MIRI 1550C - Roll 1 (Obs 8), MIRI 1140C - Target BG (Obs 28), MIRI 1140C - REF BG (Obs 29), MIRI 1550C - Target BG (Obs 30), MIRI 1550C - REF BG (Obs 31)]																																		
	(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																		
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>HIP-65426</td> <td>RA: 13 24 36.0980 (201.1504083d) Dec: -51 30 16.05 (-51.50446d) Equinox: J2000</td> <td>Proper Motion RA: -33.923 mas/yr Proper Motion Dec: -18.955 mas/yr Epoch of Position: 2000</td> <td></td> </tr> <tr> <td colspan="5"> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>                      2MASS J Magnitude = 6.826                      2MASS K Magnitude = 6.771                      Proper Motions and Magnitude from Chauvin et al., 2017                      Category=Star                      Description=[A dwarfs, Exoplanet Systems, Exoplanets]                      Extended=NO                 </td> </tr> </tbody> </table>											#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(1)	HIP-65426	RA: 13 24 36.0980 (201.1504083d) Dec: -51 30 16.05 (-51.50446d) Equinox: J2000	Proper Motion RA: -33.923 mas/yr Proper Motion Dec: -18.955 mas/yr Epoch of Position: 2000		<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> 2MASS J Magnitude = 6.826 2MASS K Magnitude = 6.771 Proper Motions and Magnitude from Chauvin et al., 2017 Category=Star Description=[A dwarfs, Exoplanet Systems, Exoplanets] Extended=NO													
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																														
(1)	HIP-65426	RA: 13 24 36.0980 (201.1504083d) Dec: -51 30 16.05 (-51.50446d) Equinox: J2000	Proper Motion RA: -33.923 mas/yr Proper Motion Dec: -18.955 mas/yr Epoch of Position: 2000																																
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1	SAME	FND	1	FAST	44	1	1	10.546	27274.3																										
<b>Template</b>	<b>Repeat observation</b> NO																																		
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	#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																							
1	4QPM/F1550C	4QPM	F1550C	FASTR1	250	60	1	1	60	3609.341																									

# Proposal 1386 - Observation 9 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

PSF References	MIRI 1550C - REF (Obs 7) (PSF Reference; Filters [F1550C]) Additional Justification: false
Special Requirements	Aperture PA Range 100 to 120 Degrees (V3 95.16455103 to 115.16455103) Offset 0.226 arcsec, 0.156 arcsec No Parallel  Sequence Observations 4, 5, 6, 7, 8, 9, 28, 29, 30, 31, Non-interruptible Aperture PA Offset 9 from 8 by 9 to 14 Degrees (Same offsets in V3)

Proposal 1386 - Observation 10 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 10: NIRISS AMI - REF 1</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRISS Aperture Masking Interferometry									
	(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>	
	(8)	HD-115842	RA: 13 20 48.3327 (200.2013863d) Dec: -55 48 2.43 (-55.80068d) Equinox: J2000			Proper Motion RA: -4.2865082753974006E-4 sec of time/yr Proper Motion Dec: 0.003594999999999997 arcsec/yr Epoch of Position: 2015.5				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> 2MASS J-band Magnitude: 5.344 2MASS K-band Magnitude: 5.175 Category=Calibration Description=[G stars]										
<b>Acquisition</b>	<b>#</b>	<b>Target</b>	<b>Acquisition Mode</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	SAME	AMIBRIGHT	F480M	NISRAPID	3	1	1	0.202	27274.8
<b>Template</b>	<b>Subarray</b>					<b>Direct Image</b>				
	SUB80					false				
<b>Dithers</b>	<b>#</b>	<b>Primary Dithers</b>				<b>Subpixel Positions</b>				
	1	NONE				NONE				
<b>Spectral Elements</b>	<b>#</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>	
	1	F380M	NISRAPID	2	10000	1	10000	2468.0		
	2	F380M	NISRAPID	2	5500	1	5500	1357.4		

Proposal 1386 - Observation 10 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

PSF References	PSF Reference: true
Special Requirements	No Parallel Sequence Observations 1, 2, 3, 10, 11, 12, Non-interruptible

# Proposal 1386 - Observation 11 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 11: NIRISS AMI - Target</b> <b>Diagnostic Status: Error</b> Observing Template: NIRISS Aperture Masking Interferometry Background Observations:[] <i>Comments: We must obtain a large number of photons (1e10) in order to approach the AMI contrast floor, requiring an observation longer than 10,000s.</i> <i>Since we do not expect any resolved, extended structure we will not be carrying out any image reconstruction which would require greater spatial frequency coverage. Hence we have requested only one roll angle.</i> <i>Multiple reference observations will be performed for this observation so that:</i> a) <i>If one calibrator is unsuitable we have a back up.</i> b) <i>Since we do not expect to quite hit the noise floor with the observation HIP 65426, we require two calibrators to ensure we characterise the contrast limit.</i>																																				
	<b>Diagnosics</b> (NIRISS AMI - Target (Obs 11)) Error (Form): This target requires similar background exposures that are linked in a non-interruptible sequence. (NIRISS AMI - Target (Obs 11)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure. (NIRISS AMI - Target (Obs 11)) Warning (Form): Use of background targets not expected with this template (Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																				
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>HIP-65426</td> <td>RA: 13 24 36.0980 (201.1504083d) Dec: -51 30 16.05 (-51.50446d) Equinox: J2000</td> <td>Proper Motion RA: -33.923 mas/yr Proper Motion Dec: -18.955 mas/yr Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>2MASS J Magnitude = 6.826 2MASS K Magnitude = 6.771</p> <p><i>Proper Motions and Magnitude from Chauvin et al., 2017</i>                  Category=Star                  Description=[A dwarfs, Exoplanet Systems, Exoplanets]                  Extended=NO</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(1)	HIP-65426	RA: 13 24 36.0980 (201.1504083d) Dec: -51 30 16.05 (-51.50446d) Equinox: J2000	Proper Motion RA: -33.923 mas/yr Proper Motion Dec: -18.955 mas/yr Epoch of Position: 2000																		
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<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Acquisition Mode</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>AMIBRIGHT</td> <td>F480M</td> <td>NISRAPID</td> <td>15</td> <td>1</td> <td>1</td> <td>0.748</td> <td>27274.4</td> </tr> </tbody> </table>										#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	SAME	AMIBRIGHT	F480M	NISRAPID	15	1	1	0.748	27274.4								
#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																												
1	SAME	AMIBRIGHT	F480M	NISRAPID	15	1	1	0.748	27274.4																												
<b>Template</b>	Subarray					Direct Image																															
	SUB80					true																															
<b>Dithers</b>	#		Primary Dithers				Subpixel Positions																														
	1		NONE				NONE																														
	2		4				NONE																														
<b>Direct Image</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F380M</td> <td>NISRAPID</td> <td>2</td> <td>1</td> <td>4</td> <td>4</td> <td>0.987</td> <td></td> </tr> <tr> <td>2</td> <td>F380M</td> <td>NISRAPID</td> <td>2</td> <td>1</td> <td>4</td> <td>4</td> <td>0.987</td> <td></td> </tr> </tbody> </table>										#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	F380M	NISRAPID	2	1	4	4	0.987		2	F380M	NISRAPID	2	1	4	4	0.987	
	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																												
1	F380M	NISRAPID	2	1	4	4	0.987																														
2	F380M	NISRAPID	2	1	4	4	0.987																														

Proposal 1386 - Observation 11 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F380M	NISRAPID	13	10000	1	10000	10766.4	
	2	F380M	NISRAPID	13	950	1	950	1022.808	
PSF References	NIRISS AMI - REF 1 (Obs 10) (PSF Reference; Filters [F380M]) NIRISS AMI - REF 2 (Obs 12) (PSF Reference; Filters [F380M]) Additional Justification: false								
Special Requirements	No Parallel Sequence Observations 1, 2, 3, 10, 11, 12, Non-interruptible								

Proposal 1386 - Observation 12 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 12: NIRISS AMI - REF 2</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRISS Aperture Masking Interferometry									
	(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>	
	(9)	HD-116084	RA: 13 22 16.2799 (200.5678329d) Dec: -52 10 58.64 (-52.18296d) Equinox: J2000			Proper Motion RA: -4.054525165371611E-4 sec of time/yr Proper Motion Dec: -5.819999842060497E-4 arcsec/yr Epoch of Position: 2015.5				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> 2MASS J-band Magnitude: 5.576 2MASS K-band Magnitude: 5.469 Category=Calibration Description=[G stars]										
<b>Acquisition</b>	<b>#</b>	<b>Target</b>	<b>Acquisition Mode</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	SAME	AMIBRIGHT	F480M	NISRAPID	3	1	1	0.202	27274.9
<b>Template</b>	<b>Subarray</b>					<b>Direct Image</b>				
	SUB80					false				
<b>Dithers</b>	<b>#</b>	<b>Primary Dithers</b>				<b>Subpixel Positions</b>				
	1	NONE				NONE				
<b>Spectral Elements</b>	<b>#</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>	
	1	F380M	NISRAPID	3	10000	1	10000	3222.4		
	2	F380M	NISRAPID	3	6000	1	6000	1933.44		

Proposal 1386 - Observation 12 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

PSF References	PSF Reference: true
Special Requirements	No Parallel Sequence Observations 1, 2, 3, 10, 11, 12, Non-interruptible



Proposal 1386 - Observation 28 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<p><b>Proposal 1386, Observation 28: MIRI 1140C - Target BG</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observation For: [MIRI 1140C - Roll 2 (Obs 4), MIRI 1140C - Roll 1 (Obs 5), MIRI 1550C - Roll 1 (Obs 8), MIRI 1550C - Roll 2 (Obs 9)]</p>											
<b>Diagnostics</b>	(Visit 28:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(10)	HIP-65426-BACKGROUND	RA: 13 24 44.2915 (201.1845479d) Dec: -51 29 31.54 (-51.49209d) Equinox: J2000									
	<p><i>Comments:</i>  <i>Category=Calibration</i>  <i>Description=/Photometric]</i></p>											
<b>Acquisition</b>	#	Target						Quadrant				
	1	NONE						1				
<b>Template</b>	AcqFilter						Repeat observation					
							YES					
<b>Dithers</b>	#	Dither Type										
	1	NONE										
<b>Spectral Elements</b>	#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1140C	4QPM	F1140C	FASTR1	101	41	1	1	41	1002.102	
<b>PSF References</b>	Additional Justification: false											

Proposal 1386 - Observation 28 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

**Special Requirements**

No Parallel

Sequence Observations 4, 5, 6, 7, 8, 9, 28, 29, 30, 31, Non-interruptible

Proposal 1386 - Observation 29 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<p><b>Proposal 1386, Observation 29: MIRI 1140C - REF BG</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observation For: [MIRI 1140C - Roll 2 (Obs 4), MIRI 1140C - Roll 1 (Obs 5), MIRI 1550C - Roll 1 (Obs 8), MIRI 1550C - Roll 2 (Obs 9)]</p>											
<b>Diagnostics</b>	(Visit 29:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Fixed Targets</b>	#	Name	Target Coordinates		Targ. Coord. Corrections				Miscellaneous			
	(10)	HIP-65426-BACKGROUND	RA: 13 24 44.2915 (201.1845479d) Dec: -51 29 31.54 (-51.49209d) Equinox: J2000									
	<p><i>Comments:</i>  <i>Category=Calibration</i>  <i>Description=/Photometric]</i></p>											
<b>Acquisition</b>	#	Target				Quadrant						
	1	NONE				1						
<b>Template</b>	AcqFilter					Repeat observation						
						YES						
<b>Dithers</b>	#	Dither Type										
	1	NONE										
<b>Spectral Elements</b>	#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1140C	4QPM	F1140C	FASTR1	52	10	1	1	10	126.791	
<b>PSF References</b>	Additional Justification: false											

Proposal 1386 - Observation 29 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

**Special Requirements**

No Parallel

Sequence Observations 4, 5, 6, 7, 8, 9, 28, 29, 30, 31, Non-interruptible

Proposal 1386 - Observation 30 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<p><b>Proposal 1386, Observation 30: MIRI 1550C - Target BG</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observation For: [MIRI 1140C - Roll 2 (Obs 4), MIRI 1140C - Roll 1 (Obs 5), MIRI 1550C - Roll 1 (Obs 8), MIRI 1550C - Roll 2 (Obs 9)]</p>											
<b>Diagnostics</b>	(Visit 30:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Fixed Targets</b>	#	Name	Target Coordinates		Targ. Coord. Corrections				Miscellaneous			
(10)	HIP-65426-BACKGROUND	RA: 13 24 44.2915 (201.1845479d) Dec: -51 29 31.54 (-51.49209d) Equinox: J2000										
<p><i>Comments:</i>  <i>Category=Calibration</i>  <i>Description=/Photometric]</i></p>												
<b>Acquisition</b>	#	Target		Quadrant								
1	NONE		1									
<b>Template</b>	AcqFilter				Repeat observation							
				YES								
<b>Dithers</b>	#	Dither Type										
1	NONE											
<b>Spectral Elements</b>	#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	4QPM/F1550C	4QPM	F1550C	FASTR1	250	60	1	1	60	3609.341		
<b>PSF References</b>	Additional Justification: false											

# Proposal 1386 - Observation 30 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

## Special Requirements

No Parallel

Sequence Observations 4, 5, 6, 7, 8, 9, 28, 29, 30, 31, Non-interruptible

Proposal 1386 - Observation 31 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<p><b>Proposal 1386, Observation 31: MIRI 1550C - REF BG</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observation For: [MIRI 1140C - Roll 2 (Obs 4), MIRI 1140C - Roll 1 (Obs 5), MIRI 1550C - Roll 1 (Obs 8), MIRI 1550C - Roll 2 (Obs 9)]</p>											
<b>Diagnostics</b>	(Visit 31:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(10)	HIP-65426-BACKGROUND	RA: 13 24 44.2915 (201.1845479d) Dec: -51 29 31.54 (-51.49209d) Equinox: J2000									
	<p><i>Comments:</i>  <i>Category=Calibration</i>  <i>Description=/Photometric]</i></p>											
<b>Acquisition</b>	#	Target					Quadrant					
	1	NONE					1					
<b>Template</b>	AcqFilter						Repeat observation					
							YES					
<b>Dithers</b>	#	Dither Type										
	1	NONE										
<b>Spectral Elements</b>	#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1550C	4QPM	F1550C	FASTR1	100	19	1	1	19	459.706	
<b>PSF References</b>	Additional Justification: false											

# Proposal 1386 - Observation 31 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

## Special Requirements

No Parallel

Sequence Observations 4, 5, 6, 7, 8, 9, 28, 29, 30, 31, Non-interruptible



Proposal 1386 - Observation 13 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<p><b>Proposal 1386, Observation 13: NIRSpec IFU</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec IFU Spectroscopy</p>											
<b>Diagnostics</b>	<p>(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>			
	(4)	VHS-1256B	RA: 12 56 1.5860 (194.0066083d) Dec: -12 57 30.31 (-12.95842d) Equinox: J2000			Proper Motion RA: -275.4 mas/yr Proper Motion Dec: -198.4 mas/yr Epoch of Position: 2011.7						
	<p><i>Comments: J2000 Coordinates, proper motion and magnitude from Gauza et al, 2015</i></p> <p>2MASS J Magnitude = 16.662                      2MASS K Magnitude = 14.57                      Category=Star                      Description=[Exoplanets]</p>											
<b>Acquisition</b>	<b>#</b>	<b>Target</b>	<b>TA Method</b>	<b>Subarray</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>	
	1	SAME	WATA	SUB32	CLEAR	NRSRAPIDD6	3	1	1	0.26	94000.17	
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>		<b>Size</b>	<b>Starting Point</b>			<b>Number of Points</b>	<b>Points</b>			
	1	4-POINT-NOD										
<b>Spectral Elements</b>	<b>#</b>	<b>Grating/Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Leakcal</b>	<b>Dither</b>	<b>Autocal</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	G235H/F170LP	NRSIRS2RAPID	21	1	false	true	NONE	4	4	1283.822	94000
	2	G395H/F290LP	NRSIRS2RAPID	21	1	false	true	NONE	4	4	1283.822	94000
	3	G140H/F100LP	NRSIRS2RAPID	21	1	false	true	NONE	4	4	1283.822	94000
<b>Special Requirements</b>	<p>Before Date 01-OCT-2022:00:00:00</p> <p>Aperture PA Range 252 to 265 Degrees (V3 113.03538513 to 126.03538513)</p> <p>Group Observations 13, 14, 15, Non-interruptible</p>											

Proposal 1386 - Observation 14 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

Observation	<b>Proposal 1386, Observation 14: MIRI MRS</b> <b>Diagnostic Status: Warning</b> 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				
	(4)	VHS-1256B	RA: 12 56 1.5860 (194.0066083d) Dec: -12 57 30.31 (-12.95842d) Equinox: J2000			Proper Motion RA: -275.4 mas/yr Proper Motion Dec: -198.4 mas/yr Epoch of Position: 2011.7							
<i>Comments: J2000 Coordinates, proper motion and magnitude from Gauza et al, 2015</i> 2MASS J Magnitude = 16.662 2MASS K Magnitude = 14.57 Category=Star Description=[Exoplanets]													
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	27274.20				
Template	Primary Channel			Simultaneous Imaging				Imager Subarray					
	ALL			YES				FULL					
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 h	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	94000
	1	SHORT(A)	MRSLONG		FASTR1	142	1	1	Dither 1	4	4	1576.223	94000
	1	SHORT(A)	MRSSHORT		FASTR1	142	1	1	Dither 1	4	4	1576.223	94000
	2		IMAGER	F770W	FASTR1	5	1	1	Dither 1	4	4	55.501	94000
	2	MEDIUM(B)	MRSLONG		FASTR1	142	1	1	Dither 1	4	4	1576.223	94000
	2	MEDIUM(B)	MRSSHORT		FASTR1	142	1	1	Dither 1	4	4	1576.223	94000
	3		IMAGER	F770W	FASTR1	5	1	1	Dither 1	4	4	55.501	94000
	3	LONG(C)	MRSLONG		FASTR1	142	1	1	Dither 1	4	4	1576.223	94000
	3	LONG(C)	MRSSHORT		FASTR1	142	1	1	Dither 1	4	4	1576.223	94000

Proposal 1386 - Observation 14 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Special Requirements

Group Observations 13, 14, 15, Non-interruptible

Proposal 1386 - Observation 15 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 15: MIRI MRS - BG</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy <i>Comments: This is a background observation to complement Observation 20.</i>																																																																																																																																													
	(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																																																																																																													
<b>Diagnosics</b>																																																																																																																																														
<b>Fixed Targets</b>	<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>(5)</td> <td>VHS-1256B-BACKGROUND</td> <td>RA: 12 56 6.7300 (194.0280417d) Dec: -12 55 48.70 (-12.93019d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table>												#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(5)	VHS-1256B-BACKGROUND	RA: 12 56 6.7300 (194.0280417d) Dec: -12 55 48.70 (-12.93019d) Equinox: J2000																																																																																																																										
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																																																																																																																									
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<i>Comments:</i> Category=Calibration Description=[Telescope/sky background] Extended=YES																																																																																																																																														
<b>Acquisition</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NONE</td> </tr> </tbody> </table>												#	Target	1	NONE																																																																																																																														
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<b>Spectral Elements</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Wavelength Range</th> <th>Detector</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Dither</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>IMAGER</td> <td>F770W</td> <td>FASTR1</td> <td>5</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>2</td> <td>2</td> <td>27.75</td> <td>94000</td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>71</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>2</td> <td>2</td> <td>394.056</td> <td>94000</td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>71</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>2</td> <td>2</td> <td>394.056</td> <td>94000</td> </tr> <tr> <td>2</td> <td></td> <td>IMAGER</td> <td>F770W</td> <td>FASTR1</td> <td>5</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>2</td> <td>2</td> <td>27.75</td> <td>94000</td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>71</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>2</td> <td>2</td> <td>394.056</td> <td>94000</td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>71</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>2</td> <td>2</td> <td>394.056</td> <td>94000</td> </tr> <tr> <td>3</td> <td></td> <td>IMAGER</td> <td>F770W</td> <td>FASTR1</td> <td>5</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>2</td> <td>2</td> <td>27.75</td> <td>94000</td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>71</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>2</td> <td>2</td> <td>394.056</td> <td>94000</td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>71</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>2</td> <td>2</td> <td>394.056</td> <td>94000</td> </tr> </tbody> </table>												#	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	2	2	27.75	94000	1	SHORT(A)	MRSLONG		FASTR1	71	1	1	Dither 1	2	2	394.056	94000	1	SHORT(A)	MRSSHORT		FASTR1	71	1	1	Dither 1	2	2	394.056	94000	2		IMAGER	F770W	FASTR1	5	1	1	Dither 1	2	2	27.75	94000	2	MEDIUM(B)	MRSLONG		FASTR1	71	1	1	Dither 1	2	2	394.056	94000	2	MEDIUM(B)	MRSSHORT		FASTR1	71	1	1	Dither 1	2	2	394.056	94000	3		IMAGER	F770W	FASTR1	5	1	1	Dither 1	2	2	27.75	94000	3	LONG(C)	MRSLONG		FASTR1	71	1	1	Dither 1	2	2	394.056	94000	3	LONG(C)	MRSSHORT		FASTR1	71	1	1	Dither 1	2	2	394.056	94000
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Proposal 1386 - Observation 15 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Special Requirements

Group Observations 13, 14, 15, Non-interruptible

Proposal 1386 - Observation 16 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 16: NIRCam 335R - REF</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRCam Coronagraphic Imaging									
	(Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>	
	(7)	HD-140986	RA: 15 46 45.4121 (236.6892171d) Dec: -06 07 13.28 (-6.12036d) Equinox: J2000			Proper Motion RA: -7.835997527072547E-4 sec of time/yr Proper Motion Dec: 6.2E-5 arcsec/yr Epoch of Position: 2015.5				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> 2MASS J Magnitude: 4.363 2MASS K Magnitude: 3.643 Category=Calibration Description=[Point spread function]										
<b>Acquisition</b>	<b>#</b>	<b>Target</b>	<b>Filter</b>	<b>Target Brightness</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	SAME	F335M	BRIGHT (ND Square)	SHALLOW4	9	1	1	2.26	27274.15
<b>Template</b>	<b>Module</b>	<b>Coronagraphic Mask</b>			<b>Obtain Astrometric Confirmation Images?</b>		<b>Subarray</b>	<b>Dither Pattern</b>		
	A	MASK335R			true		SUB320A335R	9-POINT-CIRCLE		
<b>Confirmation</b>	<b>#</b>	<b>Conf. Readout Pattern</b>	<b>Conf. Groups/Int</b>	<b>Conf. Integrations/Exp</b>	<b>Conf. Total Integrations</b>	<b>Conf. Total Exposure Time</b>	<b>Conf. Total Dithers</b>			
	1	RAPID	3	1	1	32.21	1			
<b>Spectral Elements</b>	<b>#</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>	
	1	F300M	RAPID	9	40	9	360	3855.917		
	2	F360M	BRIGHT1	9	24	9	216	4160.851		

Proposal 1386 - Observation 16 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

PSF References	PSF Reference: true
Special Requirements	Before Date 01-OCT-2022:00:00:00 No Parallel Sequence Observations 16, 17, 18, 38, Non-interruptible

Proposal 1386 - Observation 18 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 18: NIRCam 335R - Roll 2</b> <b>Diagnostic Status: Error</b> Observing Template: NIRCam Coronagraphic Imaging Background Observations:[]																																							
	(NIRCam 335R - Roll 2 (Obs 18)) Error (Form): This target requires similar background exposures that are linked in a non-interruptible sequence. (NIRCam 335R - Roll 2 (Obs 18)) Warning (Form): Use of background targets not expected with this template (Visit 18:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																							
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th colspan="6">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>HD-141569A</td> <td>RA: 15 49 57.7302 (237.4905425d) Dec: -03 55 16.64 (-3.92129d) Equinox: J2000</td> <td>Proper Motion RA: -0.0011780913171412662 sec of time/yr Proper Motion Dec: -0.018953000039800827 arcsec/yr Epoch of Position: 2015.5</td> <td colspan="6"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>2MASS J Magnitude = 6.872 2MASS K Magnitude = 6.821 Category=Star Description=[A stars, Circumstellar disks, Exoplanet Systems, Pre-main sequence stars]</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous						(6)	HD-141569A	RA: 15 49 57.7302 (237.4905425d) Dec: -03 55 16.64 (-3.92129d) Equinox: J2000	Proper Motion RA: -0.0011780913171412662 sec of time/yr Proper Motion Dec: -0.018953000039800827 arcsec/yr Epoch of Position: 2015.5																
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<b>Template</b>	<table border="1"> <thead> <tr> <th>Module</th> <th>Coronagraphic Mask</th> <th>Obtain Astrometric Confirmation Images?</th> <th>Subarray</th> <th colspan="6">Dither Pattern</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>MASK335R</td> <td>true</td> <td>SUB320A335R</td> <td colspan="6">NONE</td> </tr> </tbody> </table>										Module	Coronagraphic Mask	Obtain Astrometric Confirmation Images?	Subarray	Dither Pattern						A	MASK335R	true	SUB320A335R	NONE															
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A	MASK335R	true	SUB320A335R	NONE																																				
<b>Confirmation</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Conf. Readout Pattern</th> <th>Conf. Groups/Int</th> <th>Conf. Integrations/Exp</th> <th>Conf. Total Integrations</th> <th>Conf. Total Exposure Time</th> <th colspan="4">Conf. Total Dithers</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>RAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>32.21</td> <td colspan="4">1</td> </tr> </tbody> </table>										#	Conf. Readout Pattern	Conf. Groups/Int	Conf. Integrations/Exp	Conf. Total Integrations	Conf. Total Exposure Time	Conf. Total Dithers				1	RAPID	3	1	1	32.21	1													
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1	RAPID	3	1	1	32.21	1																																		
<b>Spectral Elements</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th colspan="2">ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F300M</td> <td>DEEP8</td> <td>10</td> <td>20</td> <td>1</td> <td>20</td> <td>4041.381</td> <td colspan="2"></td> </tr> <tr> <td>2</td> <td>F360M</td> <td>DEEP8</td> <td>17</td> <td>12</td> <td>1</td> <td>12</td> <td>4220.816</td> <td colspan="2"></td> </tr> </tbody> </table>										#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID		1	F300M	DEEP8	10	20	1	20	4041.381			2	F360M	DEEP8	17	12	1	12	4220.816		
	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																															
	1	F300M	DEEP8	10	20	1	20	4041.381																																
2	F360M	DEEP8	17	12	1	12	4220.816																																	



# Proposal 1386 - Observation 18 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

<b>PSF References</b>	NIRCam 335R - REF (Obs 16) (PSF Reference; Filters [F300M, F360M]) Additional Justification: false
<b>Special Requirements</b>	No Parallel Sequence Observations 16, 17, 18, 38, Non-interruptible Aperture PA Offset 17 from 18 by 5 to 14 Degrees (Same offsets in V3)

Proposal 1386 - Observation 17 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 17: NIRCam 335R - Roll 1</b> <b>Diagnostic Status: Error</b> Observing Template: NIRCam Coronagraphic Imaging Background Observations:[]									
	(NIRCam 335R - Roll 1 (Obs 17)) Error (Form): This target requires similar background exposures that are linked in a non-interruptible sequence. (NIRCam 335R - Roll 1 (Obs 17)) Warning (Form): Use of background targets not expected with this template (Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(6)	HD-141569A	RA: 15 49 57.7302 (237.4905425d) Dec: -03 55 16.64 (-3.92129d) Equinox: J2000		Proper Motion RA: -0.0011780913171412662 sec of time/yr Proper Motion Dec: -0.018953000039800827 arcsec/yr Epoch of Position: 2015.5					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> 2MASS J Magnitude = 6.872 2MASS K Magnitude = 6.821 Category=Star Description=[A stars, Circumstellar disks, Exoplanet Systems, Pre-main sequence stars]										
<b>Acquisition</b>	<b>#</b>	<b>Target</b>	<b>Filter</b>	<b>Target Brightness</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	SAME	F335M	FAINT	RAPID	5	1	1	0.304	27274.11
<b>Template</b>	<b>Module</b>	<b>Coronagraphic Mask</b>			<b>Obtain Astrometric Confirmation Images?</b>		<b>Subarray</b>	<b>Dither Pattern</b>		
	A	MASK335R			true		SUB320A335R	NONE		
<b>Confirmation</b>	<b>#</b>	<b>Conf. Readout Pattern</b>		<b>Conf. Groups/Int</b>	<b>Conf. Integrations/Exp</b>		<b>Conf. Total Integrations</b>	<b>Conf. Total Exposure Time</b>	<b>Conf. Total Dithers</b>	
	1	RAPID		3	1		1	32.21	1	
<b>Spectral Elements</b>	<b>#</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>	
	1	F300M	DEEP8	10	20	1	20	4041.381		
	2	F360M	DEEP8	17	12	1	12	4220.816		

# Proposal 1386 - Observation 17 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

<b>PSF References</b>	NIRCam 335R - REF (Obs 16) (PSF Reference; Filters [F300M, F360M]) Additional Justification: false
<b>Special Requirements</b>	No Parallel Sequence Observations 16, 17, 18, 38, Non-interruptible Aperture PA Offset 17 from 18 by 5 to 14 Degrees (Same offsets in V3)

Proposal 1386 - Observation 38 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 38: NIRCam 335R - REF</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRCam Coronagraphic Imaging									
	(Visit 38:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>	
	(7)	HD-140986	RA: 15 46 45.4121 (236.6892171d) Dec: -06 07 13.28 (-6.12036d) Equinox: J2000			Proper Motion RA: -7.835997527072547E-4 sec of time/yr Proper Motion Dec: 6.2E-5 arcsec/yr Epoch of Position: 2015.5				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> 2MASS J Magnitude: 4.363 2MASS K Magnitude: 3.643 Category=Calibration Description=[Point spread function]										
<b>Acquisition</b>	<b>#</b>	<b>Target</b>	<b>Filter</b>	<b>Target Brightness</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	SAME	F335M	BRIGHT (ND Square)	SHALLOW4	9	1	1	2.26	27274.15
<b>Template</b>	<b>Module</b>	<b>Coronagraphic Mask</b>			<b>Obtain Astrometric Confirmation Images?</b>		<b>Subarray</b>	<b>Dither Pattern</b>		
	A	MASK335R			true		SUB320A335R	NONE		
<b>Confirmation</b>	<b>#</b>	<b>Conf. Readout Pattern</b>	<b>Conf. Groups/Int</b>	<b>Conf. Integrations/Exp</b>	<b>Conf. Total Integrations</b>	<b>Conf. Total Exposure Time</b>	<b>Conf. Total Dithers</b>			
	1	RAPID	3	1	1	32.21	1			
<b>Spectral Elements</b>	<b>#</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>	
	1	F300M	RAPID	5	70	1	70	450.43		
	2	F360M	RAPID	5	80	1	80	514.778		

# Proposal 1386 - Observation 38 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

<b>PSF References</b>	PSF Reference: true
<b>Special Requirements</b>	Before Date 01-OCT-2022:00:00:00 Aperture PA Range 105 to 117 Degrees (V3 104.94571388 to 116.94571388) Offset 8.0 arcsec, -9.0 arcsec No Parallel  Sequence Observations 16, 17, 18, 38, Non-interruptible

Proposal 1386 - Observation 19 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 19: MIRI F1065C - Roll 1</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Coronagraphic Imaging Background Observations:[MIRI F1065C - Roll 2 (Obs 20), MIRI F1065C - Target BG (Obs 32), MIRI F1065C - REF BG (Obs 33)] <i>Comments: We request that if possible the observations be scheduled such that the second roll be as large as possible, with the largest possible roll angle. Ideally Roll 1 has an Aperture PA of 117 and Roll 2 has an aperture PA of 131.</i>																																			
	(Visit 19:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																			
<b>Diagnosics</b>																																				
<b>Fixed Targets</b>	<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>(6)</td> <td>HD-141569A</td> <td>RA: 15 49 57.7302 (237.4905425d) Dec: -03 55 16.64 (-3.92129d) Equinox: J2000</td> <td>Proper Motion RA: -0.0011780913171412662 sec of time/yr Proper Motion Dec: -0.018953000039800827 arcsec/yr Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(6)	HD-141569A	RA: 15 49 57.7302 (237.4905425d) Dec: -03 55 16.64 (-3.92129d) Equinox: J2000	Proper Motion RA: -0.0011780913171412662 sec of time/yr Proper Motion Dec: -0.018953000039800827 arcsec/yr Epoch of Position: 2015.5		<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> 2MASS J Magnitude = 6.872 2MASS K Magnitude = 6.821 Category=Star Description=[A stars, Circumstellar disks, Exoplanet Systems, Pre-main sequence stars]																								
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(6)	HD-141569A	RA: 15 49 57.7302 (237.4905425d) Dec: -03 55 16.64 (-3.92129d) Equinox: J2000	Proper Motion RA: -0.0011780913171412662 sec of time/yr Proper Motion Dec: -0.018953000039800827 arcsec/yr Epoch of Position: 2015.5																																	
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<b>Spectral Elements</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Coron Mask/Filter</th> <th>Mask</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4QPM/F1065C</td> <td>4QPM</td> <td>F1065C</td> <td>FASTR1</td> <td>853</td> <td>6</td> <td>1</td> <td>1</td> <td>6</td> <td>1227.881</td> <td></td> </tr> </tbody> </table>	#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	4QPM/F1065C	4QPM	F1065C	FASTR1	853	6	1	1	6	1227.881												
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1	4QPM/F1065C	4QPM	F1065C	FASTR1	853	6	1	1	6	1227.881																										

# Proposal 1386 - Observation 19 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

<b>PSF References</b>	MIRI F1065C - REF (Obs 21) (PSF Reference; Filters [F1065C]) Additional Justification: false
<b>Special Requirements</b>	Before Date 01-OCT-2022:00:00:00 Aperture PA Range 117 to 122 Degrees (V3 112.16455103 to 117.16455103) Offset 0.204 arcsec, 0.19 arcsec No Parallel  Sequence Observations 19, 20, 21, 32, 33, Non-interruptible Aperture PA Offset 19 from 20 by 9 to 14 Degrees (Same offsets in V3)

Proposal 1386 - Observation 20 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 20: MIRI F1065C - Roll 2</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Coronagraphic Imaging Background Observations:[MIRI F1065C - Roll 1 (Obs 19), MIRI F1065C - Target BG (Obs 32), MIRI F1065C - REF BG (Obs 33)]																																		
	(Visit 20:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																		
<b>Fixed Targets</b>	<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>(6)</td> <td>HD-141569A</td> <td>RA: 15 49 57.7302 (237.4905425d) Dec: -03 55 16.64 (-3.92129d) Equinox: J2000</td> <td>Proper Motion RA: -0.0011780913171412662 sec of time/yr Proper Motion Dec: -0.018953000039800827 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></p> <p>2MASS J Magnitude = 6.872 2MASS K Magnitude = 6.821 Category=Star Description=[A stars, Circumstellar disks, Exoplanet Systems, Pre-main sequence stars]</p>											#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(6)	HD-141569A	RA: 15 49 57.7302 (237.4905425d) Dec: -03 55 16.64 (-3.92129d) Equinox: J2000	Proper Motion RA: -0.0011780913171412662 sec of time/yr Proper Motion Dec: -0.018953000039800827 arcsec/yr Epoch of Position: 2015.5															
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<b>Template</b>	Repeat observation																																		
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<b>Dithers</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NONE</td> </tr> </tbody> </table>											#	Dither Type	1	NONE																				
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	#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																							
1	4QPM/F1065C	4QPM	F1065C	FASTR1	853	6	1	1	6	1227.881																									



# Proposal 1386 - Observation 20 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

<b>PSF References</b>	MIRI F1065C - REF (Obs 21) (PSF Reference; Filters [F1065C]) Additional Justification: false
<b>Special Requirements</b>	Offset 0.204 arcsec, 0.19 arcsec No Parallel Sequence Observations 19, 20, 21, 32, 33, Non-interruptible Aperture PA Offset 19 from 20 by 9 to 14 Degrees (Same offsets in V3)

Proposal 1386 - Observation 21 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 21: MIRI F1065C - REF</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Coronagraphic Imaging											
	(Visit 21:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>			
	(7)	HD-140986	RA: 15 46 45.4121 (236.6892171d) Dec: -06 07 13.28 (-6.12036d) Equinox: J2000			Proper Motion RA: -7.835997527072547E-4 sec of time/yr Proper Motion Dec: 6.2E-5 arcsec/yr Epoch of Position: 2015.5						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> 2MASS J Magnitude: 4.363 2MASS K Magnitude: 3.643 Category=Calibration Description=[Point spread function]												
<b>Acquisition</b>	<b>#</b>	<b>Target</b>	<b>Filter</b>	<b>Quadrant</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>		
	1	SAME	FND	1	FAST	8	1	1	1.917	27274.18		
<b>Template</b>	<b>Repeat observation</b>											
	NO											
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>										
	1	5-POINT-SMALL-GRID										
<b>Spectral Elements</b>	<b>#</b>	<b>Coron Mask/Filter</b>	<b>Mask</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Exposures/Dith</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	4QPM/F1065C	4QPM	F1065C	FASTR1	290	4	1	5	20	1393.739	

Proposal 1386 - Observation 21 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

<b>PSF References</b>	PSF Reference: true
<b>Special Requirements</b>	Offset 0.204 arcsec, 0.19 arcsec No Parallel Sequence Observations 19, 20, 21, 32, 33, Non-interruptible

Proposal 1386 - Observation 22 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 22: MIRI F1140C - Roll 1</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Coronagraphic Imaging Background Observations:[MIRI F1140C - Roll 2 (Obs 23), MIRI F1140C - Target BG (Obs 34), MIRI F1140C - REF BG (Obs 35)]																																	
	(Visit 22:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																	
<b>Fixed Targets</b>	<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>(6)</td> <td>HD-141569A</td> <td>RA: 15 49 57.7302 (237.4905425d) Dec: -03 55 16.64 (-3.92129d) Equinox: J2000</td> <td>Proper Motion RA: -0.0011780913171412662 sec of time/yr Proper Motion Dec: -0.018953000039800827 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></p> <p>2MASS J Magnitude = 6.872 2MASS K Magnitude = 6.821 Category=Star Description=[A stars, Circumstellar disks, Exoplanet Systems, Pre-main sequence stars]</p>											#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(6)	HD-141569A	RA: 15 49 57.7302 (237.4905425d) Dec: -03 55 16.64 (-3.92129d) Equinox: J2000	Proper Motion RA: -0.0011780913171412662 sec of time/yr Proper Motion Dec: -0.018953000039800827 arcsec/yr Epoch of Position: 2015.5														
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																													
(6)	HD-141569A	RA: 15 49 57.7302 (237.4905425d) Dec: -03 55 16.64 (-3.92129d) Equinox: J2000	Proper Motion RA: -0.0011780913171412662 sec of time/yr Proper Motion Dec: -0.018953000039800827 arcsec/yr Epoch of Position: 2015.5																															
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#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																									
1	SAME	FND	1	FAST	98	1	1	23.489	27274.14																									
<b>Template</b>	<b>Repeat observation</b>																																	
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#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																							
1	4QPM/F1140C	4QPM	F1140C	FASTR1	940	6	1	1	6	1352.994																								

# Proposal 1386 - Observation 22 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

<b>PSF References</b>	MIRI F1140C - REF (Obs 24) (PSF Reference; Filters [F1140C]) Additional Justification: false
<b>Special Requirements</b>	Before Date 01-OCT-2022:00:00:00 Aperture PA Range 117 to 122 Degrees (V3 112.16455103 to 117.16455103) Offset 0.2185 arcsec, 0.1273 arcsec No Parallel  Sequence Observations 22, 23, 24, 34, 35, Non-interruptible Aperture PA Offset 22 from 23 by 9 to 14 Degrees (Same offsets in V3)

Proposal 1386 - Observation 23 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 23: MIRI F1140C - Roll 2</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Coronagraphic Imaging Background Observations:[MIRI F1140C - Roll 1 (Obs 22), MIRI F1140C - Target BG (Obs 34), MIRI F1140C - REF BG (Obs 35)]											
	(Visit 23:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>			
	(6)	HD-141569A	RA: 15 49 57.7302 (237.4905425d) Dec: -03 55 16.64 (-3.92129d) Equinox: J2000			Proper Motion RA: -0.0011780913171412662 sec of time/yr Proper Motion Dec: -0.018953000039800827 arcsec/yr Epoch of Position: 2015.5						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> 2MASS J Magnitude = 6.872 2MASS K Magnitude = 6.821 Category=Star Description=[A stars, Circumstellar disks, Exoplanet Systems, Pre-main sequence stars]												
<b>Acquisition</b>	<b>#</b>	<b>Target</b>	<b>Filter</b>	<b>Quadrant</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>		
	1	SAME	FND	1	FAST	98	1	1	23.489	27274.14		
<b>Template</b>	<b>Repeat observation</b>											
	NO											
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>										
	1	NONE										
<b>Spectral Elements</b>	<b>#</b>	<b>Coron Mask/Filter</b>	<b>Mask</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Exposures/Dith</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	4QPM/F1140C	4QPM	F1140C	FASTR1	940	6	1	1	6	1352.994	

# Proposal 1386 - Observation 23 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

<b>PSF References</b>	MIRI F1140C - REF (Obs 24) (PSF Reference; Filters [F1140C]) Additional Justification: false
<b>Special Requirements</b>	Offset 0.2185 arcsec, 0.1273 arcsec No Parallel Sequence Observations 22, 23, 24, 34, 35, Non-interruptible Aperture PA Offset 22 from 23 by 9 to 14 Degrees (Same offsets in V3)

Proposal 1386 - Observation 24 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<p><b>Proposal 1386, Observation 24: MIRI F1140C - REF</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Coronagraphic Imaging</p>											
<b>Diagnostics</b>	(Visit 24:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(7)	HD-140986	RA: 15 46 45.4121 (236.6892171d) Dec: -06 07 13.28 (-6.12036d) Equinox: J2000			Proper Motion RA: -7.835997527072547E-4 sec of time/yr Proper Motion Dec: 6.2E-5 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>2MASS J Magnitude: 4.363 2MASS K Magnitude: 3.643 Category=Calibration Description=[Point spread function]</p>											
<b>Acquisition</b>	#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID		
	1	SAME	FND	1	FAST	8	1	1	1.917	27274.18		
<b>Template</b>	<p><b>Repeat observation</b></p> <p>NO</p>											
<b>Dithers</b>	#	<b>Dither Type</b>										
	1	5-POINT-SMALL-GRID										
<b>Spectral Elements</b>	#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1140C	4QPM	F1140C	FASTR1	400	4	1	5	20	1921.035	



Proposal 1386 - Observation 24 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

PSF References	PSF Reference: true
Special Requirements	Offset 0.2185 arcsec, 0.1273 arcsec No Parallel Sequence Observations 22, 23, 24, 34, 35, Non-interruptible

Proposal 1386 - Observation 25 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 25: MIRI F1550C - Roll 1</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Coronagraphic Imaging Background Observations:[MIRI F1550C - Roll 2 (Obs 26), MIRI F1550C - Target BG (Obs 36), MIRI F1550C - REF BG (Obs 37)]																																		
	(Visit 25:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																		
<b>Diagnosics</b>																																			
<b>Fixed Targets</b>	<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>(6)</td> <td>HD-141569A</td> <td>RA: 15 49 57.7302 (237.4905425d) Dec: -03 55 16.64 (-3.92129d) Equinox: J2000</td> <td>Proper Motion RA: -0.0011780913171412662 sec of time/yr Proper Motion Dec: -0.018953000039800827 arcsec/yr Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(6)	HD-141569A	RA: 15 49 57.7302 (237.4905425d) Dec: -03 55 16.64 (-3.92129d) Equinox: J2000	Proper Motion RA: -0.0011780913171412662 sec of time/yr Proper Motion Dec: -0.018953000039800827 arcsec/yr Epoch of Position: 2015.5		<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>  2MASS J Magnitude = 6.872 2MASS K Magnitude = 6.821 Category=Star Description=[A stars, Circumstellar disks, Exoplanet Systems, Pre-main sequence stars]																							
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																														
(6)	HD-141569A	RA: 15 49 57.7302 (237.4905425d) Dec: -03 55 16.64 (-3.92129d) Equinox: J2000	Proper Motion RA: -0.0011780913171412662 sec of time/yr Proper Motion Dec: -0.018953000039800827 arcsec/yr Epoch of Position: 2015.5																																
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	#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																									
1	SAME	FND	1	FAST	98	1	1	23.489	27274.14																										
<b>Template</b>	Repeat observation																																		
	NO																																		
<b>Dithers</b>	#																																		
	1																																		
<b>Spectral Elements</b>	Dither Type																																		
	NONE																																		
<b>Spectral Elements</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Coron Mask/Filter</th> <th>Mask</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4QPM/F1550C</td> <td>4QPM</td> <td>F1550C</td> <td>FASTR1</td> <td>1200</td> <td>13</td> <td>1</td> <td>1</td> <td>13</td> <td>3741.884</td> <td></td> </tr> </tbody> </table>	#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	4QPM/F1550C	4QPM	F1550C	FASTR1	1200	13	1	1	13	3741.884											
	#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																							
1	4QPM/F1550C	4QPM	F1550C	FASTR1	1200	13	1	1	13	3741.884																									

# Proposal 1386 - Observation 25 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

<b>PSF References</b>	MIRI F1550C - REF (Obs 27) (PSF Reference; Filters [F1550C]) Additional Justification: false
<b>Special Requirements</b>	Before Date 01-OCT-2022:00:00:00 Aperture PA Range 117 to 122 Degrees (V3 112.16455103 to 117.16455103) Offset 0.226 arcsec, 0.156 arcsec No Parallel  Sequence Observations 25, 26, 27, 36, 37, Non-interruptible Aperture PA Offset 25 from 26 by 9 to 14 Degrees (Same offsets in V3)

Proposal 1386 - Observation 26 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 26: MIRI F1550C - Roll 2</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Coronagraphic Imaging Background Observations:[MIRI F1550C - Roll 1 (Obs 25), MIRI F1550C - Target BG (Obs 36), MIRI F1550C - REF BG (Obs 37)]																																		
	(Visit 26:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																		
<b>Diagnosics</b>																																			
<b>Fixed Targets</b>	<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>(6)</td> <td>HD-141569A</td> <td>RA: 15 49 57.7302 (237.4905425d) Dec: -03 55 16.64 (-3.92129d) Equinox: J2000</td> <td>Proper Motion RA: -0.0011780913171412662 sec of time/yr Proper Motion Dec: -0.018953000039800827 arcsec/yr Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(6)	HD-141569A	RA: 15 49 57.7302 (237.4905425d) Dec: -03 55 16.64 (-3.92129d) Equinox: J2000	Proper Motion RA: -0.0011780913171412662 sec of time/yr Proper Motion Dec: -0.018953000039800827 arcsec/yr Epoch of Position: 2015.5		Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.  2MASS J Magnitude = 6.872 2MASS K Magnitude = 6.821 Category=Star Description=[A stars, Circumstellar disks, Exoplanet Systems, Pre-main sequence stars]																							
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																														
(6)	HD-141569A	RA: 15 49 57.7302 (237.4905425d) Dec: -03 55 16.64 (-3.92129d) Equinox: J2000	Proper Motion RA: -0.0011780913171412662 sec of time/yr Proper Motion Dec: -0.018953000039800827 arcsec/yr Epoch of Position: 2015.5																																
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#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																										
1	SAME	FND	1	FAST	98	1	1	23.489	27274.14																										
<b>Acquisition</b>	Repeat observation																																		
	NO																																		
<b>Template</b>																																			
<b>Dithers</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NONE</td> </tr> </tbody> </table>											#	Dither Type	1	NONE																				
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<b>Spectral Elements</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Coron Mask/Filter</th> <th>Mask</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4QPM/F1550C</td> <td>4QPM</td> <td>F1550C</td> <td>FASTR1</td> <td>1200</td> <td>13</td> <td>1</td> <td>1</td> <td>13</td> <td>3741.884</td> <td></td> </tr> </tbody> </table>	#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	4QPM/F1550C	4QPM	F1550C	FASTR1	1200	13	1	1	13	3741.884											
	#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																							
1	4QPM/F1550C	4QPM	F1550C	FASTR1	1200	13	1	1	13	3741.884																									

# Proposal 1386 - Observation 26 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

<b>PSF References</b>	MIRI F1550C - REF (Obs 27) (PSF Reference; Filters [F1550C]) Additional Justification: false
<b>Special Requirements</b>	Offset 0.226 arcsec, 0.156 arcsec No Parallel Sequence Observations 25, 26, 27, 36, 37, Non-interruptible Aperture PA Offset 25 from 26 by 9 to 14 Degrees (Same offsets in V3)

Proposal 1386 - Observation 27 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 27: MIRI F1550C - REF</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Coronagraphic Imaging											
	(Visit 27:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>			
	(7)	HD-140986	RA: 15 46 45.4121 (236.6892171d) Dec: -06 07 13.28 (-6.12036d) Equinox: J2000			Proper Motion RA: -7.835997527072547E-4 sec of time/yr Proper Motion Dec: 6.2E-5 arcsec/yr Epoch of Position: 2015.5						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> 2MASS J Magnitude: 4.363 2MASS K Magnitude: 3.643 Category=Calibration Description=[Point spread function]												
<b>Acquisition</b>	<b>#</b>	<b>Target</b>	<b>Filter</b>	<b>Quadrant</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>		
	1	SAME	FND	1	FAST	8	1	1	1.917	27274.18		
<b>Template</b>	<b>Repeat observation</b>											
	NO											
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>										
	1	5-POINT-SMALL-GRID										
<b>Spectral Elements</b>	<b>#</b>	<b>Coron Mask/Filter</b>	<b>Mask</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Exposures/Dith</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	4QPM/F1550C	4QPM	F1550C	FASTR1	1200	6	1	5	30	8634.472	

Proposal 1386 - Observation 27 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

PSF References	PSF Reference: true
Special Requirements	Offset 0.226 arcsec, 0.156 arcsec No Parallel Sequence Observations 25, 26, 27, 36, 37, Non-interruptible

Proposal 1386 - Observation 32 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<p><b>Proposal 1386, Observation 32: MIRI F1065C - Target BG</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observation For: [MIRI F1065C - Roll 1 (Obs 19), MIRI F1065C - Roll 2 (Obs 20)]</p>											
<b>Diagnostics</b>	(Visit 32:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>				<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
(11)	HD-141569A- BACKGROUND	RA: 15 50 3.4013 (237.5141721d) Dec: -03 55 46.33 (-3.92954d) Equinox: J2000										
<p><i>Comments:</i>  <i>Category=Calibration</i>  <i>Description=/[Photometric]</i></p>												
<b>Acquisition</b>	<b>#</b>	<b>Target</b>					<b>Quadrant</b>					
1	NONE					1						
<b>Template</b>	<b>AcqFilter</b>						<b>Repeat observation</b>					
						YES						
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>										
1	NONE											
<b>Spectral Elements</b>	<b>#</b>	<b>Coron Mask/Filter</b>	<b>Mask</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Exposures/Dith</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
1	4QPM/F1065C	4QPM	F1065C	FASTR1	853	6	1	1	6	1227.881		
<b>PSF References</b>	Additional Justification: false											



Proposal 1386 - Observation 32 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

**Special Requirements**

No Parallel

Sequence Observations 19, 20, 21, 32, 33, Non-interruptible

Proposal 1386 - Observation 33 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<p><b>Proposal 1386, Observation 33: MIRI F1065C - REF BG</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observation For: [MIRI F1065C - Roll 1 (Obs 19), MIRI F1065C - Roll 2 (Obs 20)]</p>											
<b>Diagnostics</b>	(Visit 33:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(11)	HD-141569A-BACKGROUND	RA: 15 50 3.4013 (237.5141721d) Dec: -03 55 46.33 (-3.92954d) Equinox: J2000									
	<i>Comments:</i> <i>Category=Calibration</i> <i>Description=/Photometric]</i>											
<b>Acquisition</b>	#	Target				Quadrant						
	1	NONE				1						
<b>Template</b>	AcqFilter					Repeat observation						
						YES						
<b>Dithers</b>	#	Dither Type										
	1	NONE										
<b>Spectral Elements</b>	#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1065C	4QPM	F1065C	FASTR1	290	4	1	1	4	278.748	
<b>PSF References</b>	Additional Justification: false											

Proposal 1386 - Observation 33 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Special Requirements

No Parallel

Sequence Observations 19, 20, 21, 32, 33, Non-interruptible

Proposal 1386 - Observation 34 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<p><b>Proposal 1386, Observation 34: MIRI F1140C - Target BG</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observation For: [MIRI F1140C - Roll 1 (Obs 22), MIRI F1140C - Roll 2 (Obs 23)]</p>											
<b>Diagnostics</b>	(Visit 34:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(11)	HD-141569A- BACKGROUND	RA: 15 50 3.4013 (237.5141721d) Dec: -03 55 46.33 (-3.92954d) Equinox: J2000									
	<p><i>Comments:</i>  <i>Category=Calibration</i>  <i>Description=/Photometric]</i></p>											
<b>Acquisition</b>	#	Target					Quadrant					
	1	NONE					1					
<b>Template</b>	AcqFilter						Repeat observation					
							YES					
<b>Dithers</b>	#	Dither Type										
	1	NONE										
<b>Spectral Elements</b>	#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1140C	4QPM	F1140C	FASTR1	940	6	1	1	6	1352.994	
<b>PSF References</b>	Additional Justification: false											

Proposal 1386 - Observation 34 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

**Special Requirements**

No Parallel

Sequence Observations 22, 23, 24, 34, 35, Non-interruptible

Proposal 1386 - Observation 35 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<p><b>Proposal 1386, Observation 35: MIRI F1140C - REF BG</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observation For: [MIRI F1140C - Roll 1 (Obs 22), MIRI F1140C - Roll 2 (Obs 23)]</p>											
<b>Diagnostics</b>	(Visit 35:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(11)	HD-141569A- BACKGROUND	RA: 15 50 3.4013 (237.5141721d) Dec: -03 55 46.33 (-3.92954d) Equinox: J2000									
	<p><i>Comments:</i>  <i>Category=Calibration</i>  <i>Description=/Photometric]</i></p>											
<b>Acquisition</b>	#	Target						Quadrant				
	1	NONE						1				
<b>Template</b>	AcqFilter						Repeat observation					
							YES					
<b>Dithers</b>	#	Dither Type										
	1	NONE										
<b>Spectral Elements</b>	#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1140C	4QPM	F1140C	FASTR1	400	4	1	1	4	384.207	
<b>PSF References</b>	Additional Justification: false											

Proposal 1386 - Observation 35 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

**Special Requirements**

No Parallel

Sequence Observations 22, 23, 24, 34, 35, Non-interruptible

Proposal 1386 - Observation 36 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<p><b>Proposal 1386, Observation 36: MIRI F1550C - Target BG</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observation For: [MIRI F1550C - Roll 1 (Obs 25), MIRI F1550C - Roll 2 (Obs 26)]</p>											
<b>Diagnostics</b>	(Visit 36:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(11)	HD-141569A- BACKGROUND	RA: 15 50 3.4013 (237.5141721d) Dec: -03 55 46.33 (-3.92954d) Equinox: J2000									
	<p><i>Comments:</i>  <i>Category=Calibration</i>  <i>Description=/Photometric]</i></p>											
<b>Acquisition</b>	#	Target				Quadrant						
	1	NONE				1						
<b>Template</b>	AcqFilter					Repeat observation						
						YES						
<b>Dithers</b>	#	Dither Type										
	1	NONE										
<b>Spectral Elements</b>	#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1550C	4QPM	F1550C	FASTR1	1200	13	1	1	13	3741.884	
<b>PSF References</b>	Additional Justification: false											



Proposal 1386 - Observation 36 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

**Special Requirements**

No Parallel

Sequence Observations 25, 26, 27, 36, 37, Non-interruptible

Proposal 1386 - Observation 37 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<p><b>Proposal 1386, Observation 37: MIRI F1550C - REF BG</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observation For: [MIRI F1550C - Roll 1 (Obs 25), MIRI F1550C - Roll 2 (Obs 26)]</p>											
<b>Diagnostics</b>	(Visit 37:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(11)	HD-141569A- BACKGROUND	RA: 15 50 3.4013 (237.5141721d) Dec: -03 55 46.33 (-3.92954d) Equinox: J2000									
	<p><i>Comments:</i>  <i>Category=Calibration</i>  <i>Description=/Photometric]</i></p>											
<b>Acquisition</b>	#	Target					Quadrant					
	1	NONE					1					
<b>Template</b>	AcqFilter						Repeat observation					
							YES					
<b>Dithers</b>	#	Dither Type										
	1	NONE										
<b>Spectral Elements</b>	#	Coron Mask/Filter	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1550C	4QPM	F1550C	FASTR1	1200	6	1	1	6	1726.894	
<b>PSF References</b>	Additional Justification: false											

Proposal 1386 - Observation 37 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

**Special Requirements**

No Parallel

Sequence Observations 25, 26, 27, 36, 37, Non-interruptible

Proposal 1386 - Observation 116 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 116: NIRCcam 335R - REF</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRCcam Coronagraphic Imaging Comments: Repeat of failed observation 16.									
	(Visit 116:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>	
	(7)	HD-140986	RA: 15 46 45.4121 (236.6892171d) Dec: -06 07 13.28 (-6.12036d) Equinox: J2000			Proper Motion RA: -7.835997527072547E-4 sec of time/yr Proper Motion Dec: 6.2E-5 arcsec/yr Epoch of Position: 2015.5				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. 2MASS J Magnitude: 4.363 2MASS K Magnitude: 3.643 Category=Calibration Description=[Point spread function]										
<b>Acquisition</b>	<b>#</b>	<b>Target</b>	<b>Filter</b>	<b>Target Brightness</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	SAME	F335M	BRIGHT (ND Square)	SHALLOW4	9	1	1	2.26	27274.15
<b>Template</b>	<b>Module</b>	<b>Coronagraphic Mask</b>			<b>Obtain Astrometric Confirmation Images?</b>		<b>Subarray</b>	<b>Dither Pattern</b>		
	A	MASK335R			true		SUB320A335R	9-POINT-CIRCLE		
<b>Confirmation</b>	<b>#</b>	<b>Conf. Readout Pattern</b>		<b>Conf. Groups/Int</b>	<b>Conf. Integrations/Exp</b>		<b>Conf. Total Integrations</b>	<b>Conf. Total Exposure Time</b>	<b>Conf. Total Dithers</b>	
	1	RAPID		3	1		1	32.21	1	
<b>Spectral Elements</b>	<b>#</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>	
	1	F300M	RAPID	9	40	9	360	3855.917		
	2	F360M	BRIGHT1	9	24	9	216	4160.851		

Proposal 1386 - Observation 116 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

PSF References	PSF Reference: true
Special Requirements	Before Date 01-SEP-2023:00:00:00 No Parallel Sequence Observations 116, 117, 118, 138, Non-interruptible

Proposal 1386 - Observation 117 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 117: NIRCam 335R - Roll 2</b> <b>Diagnostic Status: Error</b> Observing Template: NIRCam Coronagraphic Imaging Background Observations:[] <i>Comments: Repeat of failed observation 17.</i>																																				
	(NIRCam 335R - Roll 2 (Obs 117)) Error (Form): This target requires similar background exposures that are linked in a non-interruptible sequence. (NIRCam 335R - Roll 2 (Obs 117)) Warning (Form): PSF Reference observations should be SEQ NON-INT. (NIRCam 335R - Roll 2 (Obs 117)) Warning (Form): Use of background targets not expected with this template (Visit 117:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																				
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<b>Fixed Targets</b>	<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>(6)</td> <td>HD-141569A</td> <td>RA: 15 49 57.7302 (237.4905425d) Dec: -03 55 16.64 (-3.92129d) Equinox: J2000</td> <td>Proper Motion RA: -0.0011780913171412662 sec of time/yr Proper Motion Dec: -0.018953000039800827 arcsec/yr Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(6)	HD-141569A	RA: 15 49 57.7302 (237.4905425d) Dec: -03 55 16.64 (-3.92129d) Equinox: J2000	Proper Motion RA: -0.0011780913171412662 sec of time/yr Proper Motion Dec: -0.018953000039800827 arcsec/yr Epoch of Position: 2015.5		<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>  2MASS J Magnitude = 6.872 2MASS K Magnitude = 6.821 Category=Star Description=[A stars, Circumstellar disks, Exoplanet Systems, Pre-main sequence stars]																									
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	1	F300M	DEEP8	10	20	1	20	4041.381																													
2	F360M	DEEP8	17	12	1	12	4220.816																														

# Proposal 1386 - Observation 117 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

PSF References	NIRCam 335R - REF (Obs 16) (PSF Reference; Filters [F300M, F360M]) Additional Justification: false
Special Requirements	No Parallel Sequence Observations 116, 117, 118, 138, Non-interruptible Aperture PA Offset 117 from 118 by 5 to 14 Degrees (Same offsets in V3)

Proposal 1386 - Observation 118 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<b>Proposal 1386, Observation 118: NIRCam 335R - Roll 1</b> <b>Diagnostic Status: Error</b> Observing Template: NIRCam Coronagraphic Imaging Background Observations:[] <i>Comments: Repeat of failed observation 18.</i>																																				
	(NIRCam 335R - Roll 1 (Obs 118)) Error (Form): This target requires similar background exposures that are linked in a non-interruptible sequence. (NIRCam 335R - Roll 1 (Obs 118)) Warning (Form): PSF Reference observations should be SEQ NON-INT. (NIRCam 335R - Roll 1 (Obs 118)) Warning (Form): Use of background targets not expected with this template (Visit 118:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																				
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# Proposal 1386 - Observation 118 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

<b>PSF References</b>	NIRCam 335R - REF (Obs 16) (PSF Reference; Filters [F300M, F360M]) Additional Justification: false
<b>Special Requirements</b>	No Parallel Sequence Observations 116, 117, 118, 138, Non-interruptible Aperture PA Offset 117 from 118 by 5 to 14 Degrees (Same offsets in V3)

# Proposal 1386 - Observation 138 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Wed Sep 07 22:00:42 GMT 2022

<b>Observation</b>	<p><b>Proposal 1386, Observation 138: NIRCcam 335R - REF</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p> <p><i>Comments: Repeat of failed observation 38.</i></p> <p><i>This observation aims at probing the speckles created by the two companion M stars around HD 141569 with contemporaneous PSF star observations. For that reason, the PSF star is shifted at 12" separation at the same PA on the detector as the companion stars.</i></p> <p><i>Assuming a telescope Aperture PA of 280D (obs. date on Feb. 18), this corresponds to a companions PA of 31D (east of north).</i></p> <p><i>The separation of 12" is chosen 4" further than the companion stars (about 8") in order to probe speckles not affected by the coronagraphic mask.</i></p> <p><i>NOTE 1: the offsets may need to be updated once we have the final observing date and telescope orientation for the 117 and 118 observations.</i></p> <p><i>NOTE 2: we need to have these observations scheduled as early as possible and no later than April 3rd 2023 in order to fulfill the goal of the ERS program, which is to provide timely feedback to the community on this science case. Observations carried out after April 3rd would not allow us to inform the PIs of accepted cycle 2 program in time for possible modification of their programs before they start to be scheduled and executed (July 2023).</i></p>																													
	<p>(Visit 138:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																													
<b>Diagnosics</b>																														
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Proposal 1386 - Observation 138 - High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST

Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F300M	RAPID	5	70	1	70	450.43	
	2	F360M	RAPID	5	80	1	80	514.778	
PSF References	PSF Reference: true								
Special Requirements	Offset -6.2 arcsec, 10.3 arcsec No Parallel Sequence Observations 116, 117, 118, 138, Non-interruptible								