



1193 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

Cycle: 1, Proposal Category: GTO

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Charles A. Beichman (PI)	Jet Propulsion Laboratory
Dr. Marie Ygouf (CoI)	Jet Propulsion Laboratory
Dr. Jarron Michael Leisenring (CoI)	University of Arizona
Dr. George Rieke (CoI) (CoPI)	University of Arizona
Dr. Andras Gaspar (CoI) (Contact)	University of Arizona
Dr. Kate Y.L Su (CoI)	Space Science Institute
Dr. Jeroen Bouwman (CoI) (ESA Member)	Max Planck Institute for Astronomy

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Fomalhaut				
	1	FomalhautPSF-2550W	MIRI Imaging	(19) FOMALHAUT-PSF-MIRI-F2550
	62	FomalhautPSF-2550W	MIRI Imaging	(19) FOMALHAUT-PSF-MIRI-F2550
	2	FomalhautPSF-2300C	MIRI Coronagraphic Imaging	(20) FOMALHAUT-PSF-MIRI-CORON
	3	FomalhautPSF-2300C-background	MIRI Coronagraphic Imaging	(21) FOMALHAUT-PSF-MIRI-CORON-BACK
	4	FomalhautPSF-1550C	MIRI Coronagraphic Imaging	(20) FOMALHAUT-PSF-MIRI-CORON
	5	FomalhautPSF-1550C-background	MIRI Coronagraphic Imaging	(21) FOMALHAUT-PSF-MIRI-CORON-BACK
	6	Fomalhaut-2550W-Rot1	MIRI Imaging	(15) FOMALHAUT
	7	Fomalhaut-2300C-Rot1	MIRI Coronagraphic Imaging	(16) FOMALHAUT-COPY-MIRI-CORON

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<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	8	Fomalhaut-2300C-background	MIRI Coronagraphic Imaging	(18) FOMALHAUT-F2300C-BACK
	9	Fomalhaut-1550C-Rot1	MIRI Coronagraphic Imaging	(16) FOMALHAUT-COPY-MIRI-CORON
	10	Fomalhaut-F1550C-background	MIRI Coronagraphic Imaging	(17) FOMALHAUT-F1550C-BACK
	11	Fomalhaut-1550C-Rot2	MIRI Coronagraphic Imaging	(16) FOMALHAUT-COPY-MIRI-CORON
	12	Fomalhaut-2300C-Rot2	MIRI Coronagraphic Imaging	(16) FOMALHAUT-COPY-MIRI-CORON
	13	Fomalhaut-2550W-Rot2	MIRI Imaging	(15) FOMALHAUT
	14	Fomalhaut - NIRCcam - Roll 1 - FULL - MA430R	NIRCcam Coronagraphic Imaging	(15) FOMALHAUT
	15	Fomalhaut - NIRCcam - Roll 1 - SUB320 - MA430R	NIRCcam Coronagraphic Imaging	(15) FOMALHAUT
	16	Fomalhaut - NIRCcam - Roll 2 - SUB320 - M430R	NIRCcam Coronagraphic Imaging	(15) FOMALHAUT
	17	Fomalhaut - NIRCcam - Roll 2 - FULL - M430R	NIRCcam Coronagraphic Imaging	(15) FOMALHAUT
	18	Fomalhaut Ref star - NIRCcam - Roll 2 - SUB320 - MA430R	NIRCcam Coronagraphic Imaging	(22) FOMALHAUT-PSF-NIRCAM
	19	Fomalhaut Ref star - NIRCcam - Roll 2 - FULL - MA430R	NIRCcam Coronagraphic Imaging	(22) FOMALHAUT-PSF-NIRCAM
Vega				
	20	Vega-F2550W-background	MIRI Imaging	(7) VEGA-PSF-MIRI-CORON-BACK
	21	VegaPSF-2550W	MIRI Imaging	(5) VEGA-PSF-MIRI-F2550
	22	VegaPSF-2300C	MIRI Coronagraphic Imaging	(6) VEGA-PSF-MIRI-CORON
	23	VegaPSF-2300C-background	MIRI Coronagraphic Imaging	(7) VEGA-PSF-MIRI-CORON-BACK
	24	VegaPSF-1550C	MIRI Coronagraphic Imaging	(6) VEGA-PSF-MIRI-CORON
	25	VegaPSF-1550C-background	MIRI Coronagraphic Imaging	(7) VEGA-PSF-MIRI-CORON-BACK

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Folder	Observation	Label	Observing Template	Science Target
	26	Vega-2550W-Rot1	MIRI Imaging	(1) VEGA
	27	Vega-2300C-Rot1	MIRI Coronagraphic Imaging	(2) VEGA-COPY-MIRI-CORON
	28	Vega-2300C-background	MIRI Coronagraphic Imaging	(4) VEGA-F2300C-BACK
	29	Vega-1550C-Rot1	MIRI Coronagraphic Imaging	(2) VEGA-COPY-MIRI-CORON
	30	Vega-1550C-background	MIRI Coronagraphic Imaging	(3) VEGA-F1550C-BACK
	31	Vega-1550C-Rot2	MIRI Coronagraphic Imaging	(2) VEGA-COPY-MIRI-CORON
	32	Vega-2300C-Rot2	MIRI Coronagraphic Imaging	(2) VEGA-COPY-MIRI-CORON
	33	Vega-2550W-Rot2	MIRI Imaging	(1) VEGA
	34	Vega - NIRCcam - Roll 1 - FULL - MA430R	NIRCcam Coronagraphic Imaging	(1) VEGA
	35	Vega - NIRCcam - Roll 1 - SUB320 - MA430R	NIRCcam Coronagraphic Imaging	(1) VEGA
	36	Vega - NIRCcam - Roll 2 - SUB320 - M430R	NIRCcam Coronagraphic Imaging	(1) VEGA
	37	Vega - NIRCcam - Roll 2 - FULL - M430R	NIRCcam Coronagraphic Imaging	(1) VEGA
	38	Vega Ref star - NIRCcam - Roll 2 - SUB320 - MA430R	NIRCcam Coronagraphic Imaging	(8) VEGA-PSF-NIRCAM
	39	Vega Ref star - NIRCcam - Roll 2 - FULL - MA430R	NIRCcam Coronagraphic Imaging	(8) VEGA-PSF-NIRCAM
Eps Eri Visit 1				
	40	Del-Eri-1500W-background	MIRI Imaging	(24) DEL-ERI-MIRI-BACK-NEW
	41	Del-Eri-F2100W-F2550W-background	MIRI Imaging	(24) DEL-ERI-MIRI-BACK-NEW
	42	Eps-EriPSF-2550W-2100W	MIRI Imaging	(12) EPS-ERI-PSF-ALL
	43	Eps-EriPSF-1500W	MIRI Imaging	(12) EPS-ERI-PSF-ALL
	44	Eps-Eri-1500W-background	MIRI Imaging	(23) EPS-ERI-MIRI-BACK-NEW
	45	Eps-Eri-F2100W-F2550W-background	MIRI Imaging	(23) EPS-ERI-MIRI-BACK-NEW

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Folder	Observation	Label	Observing Template	Science Target
	46	Eps-Eri-2550W-F2100 W-Rot1	MIRI Imaging	(9) EPS-ERI
	47	Eps-Eri-1500W-Rot1	MIRI Imaging	(9) EPS-ERI
	48	Eps-Eri-1500W-Rot2	MIRI Imaging	(9) EPS-ERI
	49	Eps-Eri-2550W-2100W -Rot2	MIRI Imaging	(9) EPS-ERI
	50	Eps Eri Visit 1- NIRC am - Roll 1 - FULL - M3 35R	NIRCam Coronagraphic Imaging	(9) EPS-ERI
	51	Eps Eri Visit 1- NIRC am - Roll 1 - SUB320 - M335R	NIRCam Coronagraphic Imaging	(9) EPS-ERI
	52	Eps Eri Visit 1- NIRC am - Roll 2 - SUB320 - M335R	NIRCam Coronagraphic Imaging	(9) EPS-ERI
	53	Eps Eri Visit 1- NIRC am - Roll 3 - SUB320 - M335R	NIRCam Coronagraphic Imaging	(9) EPS-ERI
	54	Eps Eri Visit 1- NIRC am - Roll 3 - FULL - M3 35R	NIRCam Coronagraphic Imaging	(9) EPS-ERI
	55	Eps Eri Ref star Visit 1 - NIRCam - Roll 3 - SU B320 - M335R	NIRCam Coronagraphic Imaging	(12) EPS-ERI-PSF-ALL
	56	Eps Eri Ref star Visit 1- NIRCam - Roll 3 - FUL L - M335R	NIRCam Coronagraphic Imaging	(12) EPS-ERI-PSF-ALL
Eps Eri Visit 2				
	61	Eps Eri Visit 2 - NIRC am - Roll 1 - FULL - M3 35R	NIRCam Coronagraphic Imaging	(9) EPS-ERI
	63	Eps Eri Visit 2 - NIRC am - Roll 2 - FULL - M3 35R	NIRCam Coronagraphic Imaging	(9) EPS-ERI
	64	Eps Eri Ref star Visit 2- NIRCam - Roll 2 - FUL L - M335R	NIRCam Coronagraphic Imaging	(12) EPS-ERI-PSF-ALL

ABSTRACT

The MIRI GTO team will use JWST to probe the three nearest prominent debris disks in detail: Eps Eridani, Fomalhaut, and Vega. This program will both test the analogies with the Solar System and develop conceptual templates for interpretation of more distant systems where we can only achieve much poorer physical resolution. JWST is capable of resolving the emission of asteroid-belt analog regions around these stars. So far, the existence of such structures can only be inferred indirectly, but from analysis of spectral energy distributions, there appears to be a disk component in this region around many stars. There are two main possibilities for its origin, consistent with models for the production of zodiacal dust in the Solar System: 1) evaporation of comets at the current-day ice line of the systems; or 2) accumulation of planetesimals in the protoplanetary disk ice lines, leading to fossil planetesimal belts. As a test of these alternatives, we will use MIRI coronagraphic observations at 15.5 μm to test for the existence of asteroid-belt-analogs and if they exist, to determine where they lie. MIRI imaging at 23 (coronagraphy) and 25.5 μm (conventional imaging) will detect the outer belts of these systems at angular resolutions comparable to the best images available with ALMA. The first wavelength will be optimal for any structures affected by scattered light from the star, while the second will include the full extent of the outer rings. When combined with ALMA data, the JWST observations will document the production of small grains that contribute to the halo of debris disks around luminous stars. Because these grains reach super-thermal temperatures, it should be possible to trace them from the parent body rings outward for a significant distance. The very high angular resolution with MIRI will also be ideal to search for structures at the inner edges of cold outer debris rings, structures indicative of the influence of massive planets, or the effects of other snow lines (or both).

This program is coordinated with the NIRCам GTO team to obtain images searching for massive planets around these three same stars. JWST and NIRCам have a sensitivity advantage over the ground in the 3-5 μm regime. The NIRCам instrument team is planning coronagraphic observations at 4.4 μm (with the F444W filter) to search both the interior (<10 arcsec) and exterior regions (up to 2.2 arcmin) for faint companions approaching Saturnian masses around Eps Eridani, Fomalhaut, and Vega. The interior region will be observed twice to reject background objects on the basis of source motion while entire field will be observed at 3 μm (with the F356W filter) to reject background stars and galaxies on the basis of color.

OBSERVING DESCRIPTION

A joint team of NIRCам and US MIRI scientists will execute a series coronagraphic observations toward 3 nearby bright stars, Vega, Fomalhaut, and Eps Eri. The goals of the program are to a) characterize the debris disks of these systems and b) to search for planets.

The NIRCам observations of Eps Eri consist of 2 epochs with F444W and F356W filters. The observations are made using both SUB320 and Full Frame Mode with the round 430 mask. Full frames are needed to ensure complete coverage of a 2.2' area surrounding the stars whose debris disks show structure well beyond the region covered in SUB320 mode. SUB320 frames are needed because of a saturation issue up to 1" for the Full frame

mode. The aperture PA range constraint is set so that we cover the entire field of view for this target.

The NIRCcam observations of Vega and Fomalhaut consist of a single epoch with F444W and F356W filters. The observations are made using both SUB320 and Full Frame Mode with the round 430 mask. Full frames will be used to extend the coverage of those targets although the lack of time for this program will not allow to observe the full field of view of those two targets. SUB320 frames are needed because of a saturation issue up to 1" for the Full frame mode.

For Fomalhaut we have a relatively tight time constraint so we can observe a planet candidate, Fomalhaut b, at a favorable orientation. We will use proper motions to reject background objects in the central $\pm 10''$ coronagraphic imaging area seen in 2 epochs and the F356-short wavelength color to reject single epoch candidates seen in the flanking fields. The NIRCcam observations will use two roll angles (± 5 deg) and a reference star to assist with suppression of residuals in the coronagraphic image.

For Vega, the aperture PA range constraint is set so that we can observe the 3 point sources identified in Jansen et al. 2015, carefully avoiding the edges of the NIRCcam coronagraphic mask.

The exposure time was chosen to search planets down to Saturn masses at 4" assuming a 10 nm wavefront drift using the extension of COND03 models (Baraffe et al. 2003) for planetary masses down to Saturn mass (Beichman et al. 2010). At this separation, we should be able to detect a 0.3 Mjup planet with a SNR of about 5. We chose the exposure time ratio target/reference star to be $\sqrt{\text{flux target}/\text{flux reference}}$, to obtain the same SNR of the PSF for both targets. We will use the 5-POINT dither pattern to increase the contrast gain at close separation but chose not to increase the SNR of the PSF in order to maximize the time spent on the target. However, we made sure to keep a similar SNR per frame for both targets by carefully choosing the detector readout modes, number of groups and integrations.

To further characterize the architecture of these debris disks we will observe them with MIRI. We will image the systems at 15.5 microns with the Four Quadrant Phase Mask coronagraph (4QPM) and at 23 microns with the Lyot coronagraph, yielding a field of view of 24 and 30 arcseconds at each wavelength, respectively. The $\sim \lambda/D$ inner working angle of these coronagraphs, aided by the relatively high contrast of the belts compared to the central stars, will allow us to image the asteroid belt analog components. Such warm components have not been imaged around any extrasolar planetary system to date. While the colder Kuiper-belt analog components are visible at 23 microns, the reduced field-of-view will crop off a significant part of the disks. Therefore, we will also image the disks at 25.5 microns with the brightsky subarray (yielding a 56 arcsecond field-of-view), allowing us to image the full extent of the systems. Imaging of the targets is performed at two rotations, offset by the maximum allowable 10 degrees, at each wavelength. Furthermore, we will also observe two PSF standards for each target, one for the 25.5 micron imaging and another for the coronagraphic observations. The two PSFs are necessary to achieve a good S/N on the calibrators. The coronagraphic PSFs are bright, allowing us to perform a 9 point dither pattern around the center of the 4QPM and still obtain a high S/N PSF at each dither point. Unfortunately, such bright calibrators would saturate in imaging mode at 25.5 microns, requiring us to choose a fainter imaging PSF calibrator. To optimize the observations

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sequence, we first image the calibrators at 25.5, 23, and then 15.5 microns. This is followed by the target at 25.5, 23, and then 15.5 microns at first rotation, and then in reverse at 15.5, 23, and finally 25.5 microns at second rotation. This sequence requires only a single rotation, which is a time consuming maneuver. Furthermore, the longer timescale stability at longer wavelengths also favors the shorter wavelength observations to be executed closer in time. Finally, our targets will saturate in their cores at imaging at 25.5 microns. Our sequence avoids latent images of these cores persisting in our dataset as they are the last images observed. This imaging sequence is optimized both for time and science return.

Important:

- Whenever it is possible the MIRI observations should be scheduled with the NIRCам first visit observations of Eps Eri.

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#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	VEGA	RA: 18 36 56.3363 (279.2347346d) Dec: +38 47 1.28 (38.78369d) Equinox: J2000	Proper Motion RA: 200.94 mas/yr Proper Motion Dec: 286.23 mas/yr Parallax: 0.13023" Epoch of Position: 2000	<i>Comments: Hipparcos new reduction - van Leeuwen 2007 (same as in Reyle+, 2021)</i> <i>A0Va type star</i> <i>Kmag=0.13</i> <i>15.5 mu F: 16.35 Jy</i> <i>23.0 mu F: 7.43 Jy</i> <i>25.5 mu F: 6.04 Jy</i> <i>Category=Star</i> <i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i> <i>Extended=NO</i>
(2)	VEGA-COPY-MIRI-CORON	RA: 18 36 56.3363 (279.2347346d) Dec: +38 47 1.28 (38.78369d) Equinox: J2000	Proper Motion RA: 200.94 mas/yr Proper Motion Dec: 286.23 mas/yr Parallax: 0.13023" Epoch of Position: 2000	<i>Comments: Copy of Vega, used for MIRI Coronagraphy, so we don't get APT warnings.</i> <i>Hipparcos new reduction - van Leeuwen 2007 (same as in Reyle+, 2021)</i> <i>A0Va type star</i> <i>Kmag=0.13</i> <i>15.5 mu F: 16.35 Jy</i> <i>23.0 mu F: 7.43 Jy</i> <i>25.5 mu F: 6.04 Jy</i> <i>Category=Star</i> <i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i> <i>Extended=NO</i>
(3)	VEGA-F1550C-BACK	RA: 18 37 25.5214 (279.3563392d) Dec: +38 41 43.57 (38.69544d) Equinox: J2000	Epoch of Position: 2022	<i>Comments: Background region, 24.5" from Vega at 2022</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Telescope/sky background]</i>
(4)	VEGA-F2300C-BACK	RA: 18 37 25.5214 (279.3563392d) Dec: +38 41 43.57 (38.69544d) Equinox: J2000	Epoch of Position: 2022	<i>Comments: Background region for Lyot coronagraph for Vega in 2022</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Telescope/sky background]</i>

Fixed Targets

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(5)	VEGA-PSF-MIRI-F2550	RA: 18 21 32.6635 (275.3860979d) Dec: +49 07 17.73 (49.12159d) Equinox: J2000	Proper Motion RA: -24.267 mas/yr Proper Motion Dec: 50.93 mas/yr Parallax: 0.0049088" Epoch of Position: 2000.0
<p><i>Comments: Coordinate data from GAIAI EDR3</i></p> <p><i>Used as PSF for MIRI for both coron and non-coron imaging</i></p> <p><i>M2III type star</i> <i>Distance: 10.699 deg from Vega</i> <i>Kmag=0.57</i></p> <p><i>15.5 mu F: 10.59 Jy</i> <i>23.0 mu F: 4.88 Jy</i> <i>25.5 mu F: 3.99 Jy</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Point spread function]</i> <i>Extended=NO</i></p>			
(6)	VEGA-PSF-MIRI-CORON	RA: 18 21 32.6635 (275.3860979d) Dec: +49 07 17.73 (49.12159d) Equinox: J2000	Proper Motion RA: -24.267 mas/yr Proper Motion Dec: 50.93 mas/yr Parallax: 0.0049088" Epoch of Position: 2000.0
<p><i>Comments: Coordinate data from GAIAI EDR3</i></p> <p><i>Used as PSF for MIRI for both coron and non-coron imaging. Copied here for coronagraphy to avoid APT warnings.</i></p> <p><i>M2III type star</i> <i>Distance: 10.699 deg from Vega</i> <i>Kmag=0.57</i></p> <p><i>15.5 mu F: 10.59 Jy</i> <i>23.0 mu F: 4.88 Jy</i> <i>25.5 mu F: 3.99 Jy</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Point spread function]</i> <i>Extended=NO</i></p>			
(7)	VEGA-PSF-MIRI-CORON- BACK	RA: 18 21 58.9484 (275.4956183d) Dec: +49 09 6.85 (49.15190d) Equinox: J2000	Proper Motion RA: 0 mas/yr Proper Motion Dec: 0 mas/yr Parallax: 0" Epoch of Position: 2022
<p><i>Comments: Background for Vega MIRI PSF</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Telescope/sky background]</i> <i>Extended=NO</i></p>			
(8)	VEGA-PSF-NIRCAM	RA: 20 41 25.9151 (310.3579796d) Dec: +45 16 49.22 (45.28034d) Equinox: J2000	Proper Motion RA: 2.01 mas/yr Proper Motion Dec: 1.85 mas/yr Parallax: 0.00231" Epoch of Position: 2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Teff ~ 8525 K</i> <i>A2Ia type star</i> <i>Distance: 23.8 deg from Vega.</i> <i>Kmag=0.88</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic]</i> <i>Extended=NO</i></p>			

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(9)	EPS-ERI	RA: 03 32 55.8444 (53.2326850d) Dec: -09 27 29.74 (-9.45826d) Equinox: J2000	Proper Motion RA: -974.758 mas/yr Proper Motion Dec: 20.876 mas/yr Parallax: 0.3105773" Epoch of Position: 2000.0
<p><i>Comments: Object from Reyle (2021) - 10 parsec sample in the GAIA era</i></p> <p><i>F1550mu: 3.93 Jy</i> <i>F2300mu: 1.81 Jy</i> <i>F2550mu: 1.47 Jy</i></p> <p><i>K2V type star</i> <i>Kmag=1.67</i> <i>Category=Star</i> <i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i> <i>Extended=NO</i></p>			
(10)	EPS-ERI-COPY-MIRI-CORON	RA: 03 32 55.8444 (53.2326850d) Dec: -09 27 29.74 (-9.45826d) Equinox: J2000	Proper Motion RA: -974.758 mas/yr Proper Motion Dec: 20.876 mas/yr Parallax: 0.3105773" Epoch of Position: 2000.0
<p><i>Comments: Object from Reyle (2021) - 10 parsec sample in the GAIA era</i></p> <p><i>F1550mu: 3.93 Jy</i> <i>F2300mu: 1.81 Jy</i> <i>F2550mu: 1.47 Jy</i></p> <p><i>K2V type star</i> <i>Kmag=1.67</i> <i>Category=Star</i> <i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i> <i>Extended=NO</i></p>			
(11)	EPS-ERI-CORON-BACK	RA: 03 32 53.7794 (53.2240808d) Dec: -09 27 27.55 (-9.45765d) Equinox: J2000	Epoch of Position: 2022
<p><i>Comments: Background region for eps Eri for F1550C and F2300C</i></p> <p><i>Category=Calibration</i> <i>Description=[Telescope/sky background]</i></p>			
(12)	EPS-ERI-PSF-ALL	RA: 03 43 14.9005 (55.8120854d) Dec: -09 45 48.21 (-9.76339d) Equinox: J2000	Proper Motion RA: -93.634 mas/yr Proper Motion Dec: 744.360 mas/yr Parallax: 0.1100254" Epoch of Position: 2000.0
<p><i>Comments: Data from (Reyle 2021)</i></p> <p><i>Teff ~ 5055 K</i> <i>K0+IV type star</i> <i>Distance: 2.56 deg from eps Eri.</i> <i>Kmag=1.43</i></p> <p><i>15.5 mu F: 4.62 Jy</i> <i>23.0 mu F: 2.14 Jy</i> <i>25.5 mu F: 1.74 Jy</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic]</i> <i>Extended=NO</i></p>			

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(13) EPS-ERI-PSF-MIRI-CORON	RA: 03 43 14.9005 (55.8120854d) Dec: -09 45 48.21 (-9.76339d) Equinox: J2000	Proper Motion RA: -93.634 mas/yr Proper Motion Dec: 744.360 mas/yr Parallax: 0.1100254" Epoch of Position: 2000.0
<p><i>Comments: Data from (Reyle 2021)</i></p> <p><i>Teff ~ 5055 K</i> <i>K0+IV type star</i> <i>Distance: 2.56 deg from eps Eri.</i> <i>Kmag=1.43</i></p> <p><i>15.5 mu F: 4.62 Jy</i> <i>23.0 mu F: 2.14 Jy</i> <i>25.5 mu F: 1.74 Jy</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic]</i> <i>Extended=NO</i></p>		
(14) EPS-ERI-PSF-MIRI-CORON- BACK	RA: 03 43 13.2100 (55.8050417d) Dec: -09 45 41.10 (-9.76142d) Equinox: J2000	Proper Motion RA: 0 mas/yr Proper Motion Dec: 0 mas/yr Parallax: 0" Epoch of Position: 2022
<p><i>Comments: Background for del Eri</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Telescope/sky background]</i> <i>Extended=NO</i></p>		
(15) FOMALHAUT	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67 mas/yr Parallax: 0.12981" Epoch of Position: 2000
<p><i>Comments: 10 parsec sample in GAIA era (Reyle, 2021)</i></p> <p><i>A4V-type star</i> <i>Kmag=1.05</i></p> <p><i>15.5 mu F: 6.75 Jy</i> <i>23.0 mu F: 3.08 Jy</i> <i>25.5 mu F: 2.52 Jy</i> <i>Category=Star</i> <i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i> <i>Extended=NO</i></p>		
(16) FOMALHAUT-COPY-MIRI- CORON	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67 mas/yr Parallax: 0.12981" Epoch of Position: 2000
<p><i>Comments: 10 parsec sample in GAIA era (Reyle, 2021)</i></p> <p><i>A4V-type star</i> <i>Kmag=1.05</i></p> <p><i>15.5 mu F: 6.75 Jy</i> <i>23.0 mu F: 3.08 Jy</i> <i>25.5 mu F: 2.52 Jy</i> <i>Category=Star</i> <i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i> <i>Extended=NO</i></p>		

Proposal 1193 - Targets - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

(17)	FOMALHAUT-F1550C- BACK	RA: 22 57 37.8407 (344.4076696d) Dec: -29 37 30.10 (-29.62503d) Equinox: J2000	Epoch of Position: 2022
<p><i>Comments: Fomalhaut F1550C background for 2022</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Telescope/sky background]</i></p>			
(18)	FOMALHAUT-F2300C- BACK	RA: 22 57 37.9131 (344.4079713d) Dec: -29 37 33.03 (-29.62584d) Equinox: J2000	Epoch of Position: 2022
<p><i>Comments: Fomalhaut Lyot background in 2022</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Telescope/sky background]</i></p>			
(19)	FOMALHAUT-PSF-MIRI- F2550	RA: 22 42 22.0870 (340.5920292d) Dec: -29 21 39.77 (-29.36105d) Equinox: J2000	Proper Motion RA: 16.703 mas/yr Proper Motion Dec: -19.982 mas/yr Parallax: 0.0049360" Epoch of Position: 2016.0
<p><i>Comments: GAIA EDR3 data</i> <i>M3III spectral-type star</i> <i>Will be used as a PSF for both coronagraphic and non-coronagraphic imaging. It is ~ 1.13x brighter than Fomalhaut.</i> <i>Distance: 3.3 degrees from Fomalhaut</i> <i>15.5 mu: 7.64 Jy</i> <i>23.0 mu: 3.54 Jy</i> <i>25.5 mu: 2.88 Jy</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Point spread function]</i> <i>Extended=NO</i></p>			
(20)	FOMALHAUT-PSF-MIRI- CORON	RA: 22 42 22.0870 (340.5920292d) Dec: -29 21 39.77 (-29.36105d) Equinox: J2000	Proper Motion RA: 16.703 mas/yr Proper Motion Dec: -19.982 mas/yr Parallax: 0.0049360" Epoch of Position: 2016.0
<p><i>Comments: GAIA EDR3 data</i> <i>M3III spectral-type star</i> <i>Will be used as a PSF for both coronagraphic and non-coronagraphic imaging. It is ~ 1.13x brighter than Fomalhaut.</i> <i>Distance: 3.3 degrees from Fomalhaut</i> <i>15.5 mu: 7.64 Jy</i> <i>23.0 mu: 3.54 Jy</i> <i>25.5 mu: 2.88 Jy</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Point spread function]</i> <i>Extended=NO</i></p>			
(21)	FOMALHAUT-PSF-MIRI- CORON-BACK	RA: 22 42 20.2700 (340.5844583d) Dec: -29 21 38.10 (-29.36058d) Equinox: J2000	Proper Motion RA: 0 mas/yr Proper Motion Dec: 0 mas/yr Parallax: 0" Epoch of Position: 2022
<p><i>Comments: 19 PsA background</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Telescope/sky background]</i> <i>Extended=NO</i></p>			

Proposal 1193 - Targets - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

(22)	FOMALHAUT-PSF- NIRCAM	RA: 22 54 38.9684 (343.6623683d) Dec: -15 49 15.37 (-15.82094d) Equinox: J2000	Proper Motion RA: -34.152 mas/yr Proper Motion Dec: -26.359 mas/yr Parallax: 0.023145" Epoch of Position: 2016.0
<i>Comments: Positional, parallax, and PM info from GAIA DR3</i>			
<i>Teff ~ 9000 K A3V type star Distance: 13.8 deg from Fomalhaut. Kmag=3.06</i>			
<i>Should check coordinates against Gaia catalogue of nearby stars. Category=Calibration Description=[Coronagraphic] Extended=NO</i>			
(23)	EPS-ERI-MIRI-BACK-NEW	RA: 03 33 5.9779 (53.2749079d) Dec: -09 24 15.69 (-9.40436d) Equinox: J2000	Epoch of Position: 2024
<i>Comments: Checked and verified clean region in MIPS 24 mu images near eps Eri, taking into account eps Eri's PM.</i>			
<i>Category=Calibration Description=[Telescope/sky background]</i>			
(24)	DEL-ERI-MIRI-BACK-NEW	RA: 03 43 17.8552 (55.8243967d) Dec: -09 42 9.00 (-9.70250d) Equinox: J2000	Epoch of Position: 2024
<i>Comments: Checked and verified clean region in Spitzer 24 mu images, near del Eri, taking into account del Eri's PM.</i>			
<i>Category=Calibration Description=[Telescope/sky background]</i>			

Proposal 1193 - Observation 1 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 1: FomalhautPSF-2550W Diagnostic Status: Error Observing Template: MIRI Imaging <i>Comments: 69 fully saturated, 54 partial saturation</i> <i>Sequence non-int will be enforced during scheduling for visits 1:1-19:1</i>																															
	(FomalhautPSF-2550W (Obs 1)) Error (Form): Permission has not been granted for this program to use Special Requirement 'No Parallel Attachments'. (Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																															
Diagnosics																																
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(19)</td> <td>FOMALHAUT-PSF-MIRI-F2550</td> <td> RA: 22 42 22.0870 (340.5920292d) Dec: -29 21 39.77 (-29.36105d) Equinox: J2000 </td> <td> Proper Motion RA: 16.703 mas/yr Proper Motion Dec: -19.982 mas/yr Parallax: 0.0049360" Epoch of Position: 2016.0 </td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(19)	FOMALHAUT-PSF-MIRI-F2550	RA: 22 42 22.0870 (340.5920292d) Dec: -29 21 39.77 (-29.36105d) Equinox: J2000	Proper Motion RA: 16.703 mas/yr Proper Motion Dec: -19.982 mas/yr Parallax: 0.0049360" Epoch of Position: 2016.0		<i>Comments: GAIA EDR3 data</i> <i>M3III spectral-type star</i> <i>Will be used as a PSF for both coronagraphic and non-coronagraphic imaging. It is ~ 1.13x brighter than Fomalhaut.</i> <i>Distance: 3.3 degrees from Fomalhaut</i> <i>15.5 mu: 7.64 Jy</i> <i>23.0 mu: 3.54 Jy</i> <i>25.5 mu: 2.88 Jy</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Point spread function]</i> <i>Extended=NO</i>																				
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																											
(19)	FOMALHAUT-PSF-MIRI-F2550	RA: 22 42 22.0870 (340.5920292d) Dec: -29 21 39.77 (-29.36105d) Equinox: J2000	Proper Motion RA: 16.703 mas/yr Proper Motion Dec: -19.982 mas/yr Parallax: 0.0049360" Epoch of Position: 2016.0																													
Template	Subarray BRIGHTSKY																															
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Starting Point</th> <th>Number of Points</th> <th>Points</th> <th>Starting Set</th> <th>Number of Sets</th> <th>Optimized For</th> <th>Direction</th> <th>Pattern Size</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4-Point-Sets</td> <td></td> <td></td> <td></td> <td>6</td> <td>1</td> <td>EXTENDED SOURCE</td> <td>POSITIVE</td> <td>DEFAULT</td> </tr> </tbody> </table>	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	1	4-Point-Sets				6	1	EXTENDED SOURCE	POSITIVE	DEFAULT											
	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size																						
1	4-Point-Sets				6	1	EXTENDED SOURCE	POSITIVE	DEFAULT																							
Spectral Elements	<table border="1"> <thead> <tr> <th>#</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>F2550W</td> <td>FASTR1</td> <td>5</td> <td>52</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>208</td> <td>1076.408</td> <td>88123.1</td> </tr> </tbody> </table>	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	F2550W	FASTR1	5	52	1	Dither 1	4	208	1076.408	88123.1									
	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																					
1	F2550W	FASTR1	5	52	1	Dither 1	4	208	1076.408	88123.1																						

Special Requirements

No Parallel Attachments

Proposal 1193 - Observation 62 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 62: FomalhautPSF-2550W</p> <p>Diagnostic Status: Error</p> <p>Observing Template: MIRI Imaging</p> <p><i>Comments: 69 fully saturated, 54 partial saturation</i></p> <p><i>Sequence non-int will be enforced during scheduling for visits 1:1-19:1</i></p>										
	<p>(FomalhautPSF-2550W (Obs 62)) Error (Form): Permission has not been granted for this program to use Special Requirement 'No Parallel Attachments'.</p> <p>(Visit 62:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>										
Diagnosics											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(19)	FOMALHAUT-PSF-MIRI-F2550	RA: 22 42 22.0870 (340.5920292d)	Dec: -29 21 39.77 (-29.36105d)	Equinox: J2000	Proper Motion RA: 16.703 mas/yr	Proper Motion Dec: -19.982 mas/yr	Parallax: 0.0049360"	Epoch of Position: 2016.0		
<p><i>Comments: GAIA EDR3 data</i></p> <p><i>M3III spectral-type star</i></p> <p><i>Will be used as a PSF for both coronagraphic and non-coronagraphic imaging. It is ~ 1.13x brighter than Fomalhaut.</i></p> <p><i>Distance: 3.3 degrees from Fomalhaut</i></p> <p><i>15.5 mu: 7.64 Jy</i></p> <p><i>23.0 mu: 3.54 Jy</i></p> <p><i>25.5 mu: 2.88 Jy</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Coronagraphic, Point spread function]</i></p> <p><i>Extended=NO</i></p>											
Template	Subarray										
	BRIGHTSKY										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				6	1	EXTENDED SOURCE	POSITIVE	DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F2550W	FASTR1	5	52	1	Dither 1	4	208	1076.408	88123.1

Special Requirements

No Parallel Attachments

Proposal 1193 - Observation 2 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 2: FomalhautPSF-2300C</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observations:[]</p> <p><i>Comments: Assuming V PsA as PSF: F23.0mu: 19.87 Jy and F15.5mu: 43.06 Jy</i></p> <p><i>TA: My calculations give 3.5 frames to 150k and 4.7 frames to 200k. ETC gives 9 as still OK. (??)</i></p> <p><i>Let's make sure we don't saturate for TA and use only 3 frames.</i></p> <p><i>TA in quadrant 4, others in 1 and 3</i></p> <p><i>Coronagraphic Imaging:</i></p> <p><i>Group to 150k e: 39.41 and to 200k e: 52.55</i></p> <p><i>Background limit reached at 12.47 groups!</i></p> <p><i>Let's max out at 13 groups!</i></p>									
	<p>(FomalhautPSF-2300C (Obs 2)) Warning (Form): This target should have similar background exposures that are linked in a non-interruptible sequence.</p> <p>(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
Diagnostics										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(20)	FOMALHAUT-PSF-MIRI-CORON	RA: 22 42 22.0870 (340.5920292d)	Dec: -29 21 39.77 (-29.36105d)	Equinox: J2000	Proper Motion RA: 16.703 mas/yr	Proper Motion Dec: -19.982 mas/yr	Parallax: 0.0049360"	Epoch of Position: 2016.0	
<p><i>Comments: GAIA EDR3 data</i></p> <p><i>M3III spectral-type star</i></p> <p><i>Will be used as a PSF for both coronagraphic and non-coronagraphic imaging. It is ~ 1.13x brighter than Fomalhaut.</i></p> <p><i>Distance: 3.3 degrees from Fomalhaut</i></p> <p><i>15.5 mu: 7.64 Jy</i></p> <p><i>23.0 mu: 3.54 Jy</i></p> <p><i>25.5 mu: 2.88 Jy</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Coronagraphic, Point spread function]</i></p> <p><i>Extended=NO</i></p>										
Acquisition	#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	FND	4	FAST	4	1	1	1.296	88123.6
Template	Repeat observation									
	NO									
Dithers	#	Dither Type								
	1	9-POINT-SMALL-GRID								

Proposal 1193 - Observation 2 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	LYOT/F2300C	MASKLYOT	LYOT	F2300C	FASTR1	95	7	1	9	63	1956.636	88123.10
PSF References	PSF Reference: true												
Special Requirements	Offset 0.147 arcsec, 0.183 arcsec No Parallel Attachments												

Proposal 1193 - Observation 3 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 3: FomalhautPSF-2300C-background Diagnostic Status: Warning Observing Template: MIRI Coronagraphic Imaging Background Observation For: []												
	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(21)	FOMALHAUT-PSF-MIRI-CORON-BACK	RA: 22 42 20.2700 (340.5844583d) Dec: -29 21 38.10 (-29.36058d) Equinox: J2000				Proper Motion RA: 0 mas/yr Proper Motion Dec: 0 mas/yr Parallax: 0" Epoch of Position: 2022						
<i>Comments: 19 PsA background</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Telescope/sky background]</i> <i>Extended=NO</i>													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Repeat observation				Background Quadrant							
		NO				1							
Dithers	#	Dither Type											
	1	NONE											
Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	LYOT/F2300C	MASKLYOT	LYOT	F2300C	FASTR1	95	7	1	1	7	217.404	

Proposal 1193 - Observation 3 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

PSF References	Additional Justification: false
Special Requirements	No Parallel Attachments

Proposal 1193 - Observation 4 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 4: FomalhautPSF-1550C</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observations:[]</p> <p><i>Comments: Assuming V PsA as PSF: F23.0mu: 19.87 Jy and F15.5mu: 43.06 Jy</i></p> <p><i>TA: My calculations give 3 frames to 150k and 4 frames to 200k. ETC saturates 5, 3 still ok. Agreed.</i></p> <p><i>Let's make sure we don't saturate for TA and use only 3 frames.</i></p> <p><i>TA in quadrant 4, others in 1 and 3</i></p> <p><i>Coronagraphic Imaging:</i></p> <p><i>Group to 150k e: 167.74 and to 200k e: 223.65</i></p> <p><i>21 mas offset would require 67% reduction in groups to avoid saturation, i.e. ~ 112</i></p> <p><i>Background limit reached at 1296.82 groups!</i></p> <p><i>Let's be more conservative. We don't need more than 50 points to fit a slope well!</i></p>																													
	<p>(FomalhautPSF-1550C (Obs 4)) Warning (Form): This target should have similar background exposures that are linked in a non-interruptible sequence.</p> <p>(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																													
Diagnosics																														
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(20)</td> <td>FOMALHAUT-PSF-MIRI-CORON</td> <td>RA: 22 42 22.0870 (340.5920292d) Dec: -29 21 39.77 (-29.36105d) Equinox: J2000</td> <td>Proper Motion RA: 16.703 mas/yr Proper Motion Dec: -19.982 mas/yr Parallax: 0.0049360" Epoch of Position: 2016.0</td> <td></td> </tr> </tbody> </table> <p><i>Comments: GAIA EDR3 data</i></p> <p><i>M3III spectral-type star</i></p> <p><i>Will be used as a PSF for both coronagraphic and non-coronagraphic imaging. It is ~ 1.13x brighter than Fomalhaut.</i></p> <p><i>Distance: 3.3 degrees from Fomalhaut</i></p> <p><i>15.5 mu: 7.64 Jy</i></p> <p><i>23.0 mu: 3.54 Jy</i></p> <p><i>25.5 mu: 2.88 Jy</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Coronagraphic, Point spread function]</i></p> <p><i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(20)	FOMALHAUT-PSF-MIRI-CORON	RA: 22 42 22.0870 (340.5920292d) Dec: -29 21 39.77 (-29.36105d) Equinox: J2000	Proper Motion RA: 16.703 mas/yr Proper Motion Dec: -19.982 mas/yr Parallax: 0.0049360" Epoch of Position: 2016.0											
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																									
(20)	FOMALHAUT-PSF-MIRI-CORON	RA: 22 42 22.0870 (340.5920292d) Dec: -29 21 39.77 (-29.36105d) Equinox: J2000	Proper Motion RA: 16.703 mas/yr Proper Motion Dec: -19.982 mas/yr Parallax: 0.0049360" Epoch of Position: 2016.0																											
Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Filter</th> <th>Quadrant</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>FND</td> <td>4</td> <td>FAST</td> <td>4</td> <td>1</td> <td>1</td> <td>0.959</td> <td>88123.8</td> </tr> </tbody> </table>										#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	SAME	FND	4	FAST	4	1	1	0.959	88123.8
	#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																				
1	SAME	FND	4	FAST	4	1	1	0.959	88123.8																					
Template	<p>Repeat observation</p> <p>NO</p>																													
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>9-POINT-SMALL-GRID</td> </tr> </tbody> </table>										#	Dither Type	1	9-POINT-SMALL-GRID																
	#	Dither Type																												
1	9-POINT-SMALL-GRID																													

Proposal 1193 - Observation 4 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dithers	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1550C	MASK1550	4QPM	F1550C	FASTR1	168	5	1	9	45	1820.609	88123.4
PSF References	PSF Reference: true												
Special Requirements	Offset 0.226 arcsec, 0.156 arcsec No Parallel Attachments												

Proposal 1193 - Observation 5 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 5: FomalhautPSF-1550C-background Diagnostic Status: Warning Observing Template: MIRI Coronagraphic Imaging Background Observation For: []												
	(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(21)	FOMALHAUT-PSF-MIRI-CORON-BACK	RA: 22 42 20.2700 (340.5844583d) Dec: -29 21 38.10 (-29.36058d) Equinox: J2000				Proper Motion RA: 0 mas/yr Proper Motion Dec: 0 mas/yr Parallax: 0" Epoch of Position: 2022						
<i>Comments: 19 PsA background</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Telescope/sky background]</i> <i>Extended=NO</i>													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Repeat observation						Background Quadrant					
		NO						1					
Dithers	#	Dither Type											
	1	NONE											
Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1550C	MASK1550	4QPM	F1550C	FASTR1	168	5	1	1	5	202.29	

Proposal 1193 - Observation 5 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

PSF References	Additional Justification: false
Special Requirements	No Parallel Attachments

Proposal 1193 - Observation 6 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 6: Fomalhaut-2550W-Rot1 Diagnostic Status: Error Observing Template: MIRI Imaging <i>Comments: 69 full saturation, 48 partial saturation</i>																															
	(Fomalhaut-2550W-Rot1 (Obs 6)) Error (Form): Permission has not been granted for this program to use Special Requirement 'No Parallel Attachments'. (Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																															
Diagnosics																																
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(15)</td> <td>FOMALHAUT</td> <td>RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000</td> <td>Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67 mas/yr Parallax: 0.12981" Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(15)	FOMALHAUT	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67 mas/yr Parallax: 0.12981" Epoch of Position: 2000		<i>Comments: 10 parsec sample in GAIA era (Reyle, 2021)</i> A4V-type star Kmag=1.05 15.5 mu F: 6.75 Jy 23.0 mu F: 3.08 Jy 25.5 mu F: 2.52 Jy Category=Star Description=[Circumstellar disks, Debris disks, Exoplanet Systems] Extended=NO																				
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(15)	FOMALHAUT	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67 mas/yr Parallax: 0.12981" Epoch of Position: 2000																													
Template	Subarray																															
	BRIGHTSKY																															
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Starting Point</th> <th>Number of Points</th> <th>Points</th> <th>Starting Set</th> <th>Number of Sets</th> <th>Optimized For</th> <th>Direction</th> <th>Pattern Size</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4-Point-Sets</td> <td></td> <td></td> <td></td> <td>6</td> <td>1</td> <td>EXTENDED SOURCE</td> <td>POSITIVE</td> <td>DEFAULT</td> </tr> </tbody> </table>	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	1	4-Point-Sets				6	1	EXTENDED SOURCE	POSITIVE	DEFAULT											
	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size																						
1	4-Point-Sets				6	1	EXTENDED SOURCE	POSITIVE	DEFAULT																							
Spectral Elements	<table border="1"> <thead> <tr> <th>#</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>F2550W</td> <td>FASTR1</td> <td>5</td> <td>52</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>208</td> <td>1076.408</td> <td>88123.2</td> </tr> </tbody> </table>	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	F2550W	FASTR1	5	52	1	Dither 1	4	208	1076.408	88123.2									
	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																					
1	F2550W	FASTR1	5	52	1	Dither 1	4	208	1076.408	88123.2																						

Proposal 1193 - Observation 6 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

Special Requirements

Aperture PA Range 50.63544897 to 50.63544897 Degrees (V3 45.8 to 45.8)

No Parallel Attachments

Aperture PA Offset 13 from 6 by 10 to 14 Degrees (Same offsets in V3)

Proposal 1193 - Observation 7 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 7: Fomalhaut-2300C-Rot1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observations:[]</p> <p><i>Comments: 15.5 mu F: 6.788 Jy and 23.0 mu F: 3.11 Jy</i></p> <p><i>TA: My calculations give 22 frames to 150k and 30 frames to 200k. ETC gives 75 frames as still OK. I'll be conservative. Let's make sure we don't saturate for TA and use only 15 frames. TA in quadrant 1</i></p> <p><i>Coronagraphic Imaging:</i> <i>Group to 150k e: 19.95 and to 200k e: 26.60</i> <i>Background limit reached at 12.47 groups!</i> <i>Let's max out at 13 groups!</i></p>																												
	<p>(Fomalhaut-2300C-Rot1 (Obs 7)) Warning (Form): PSF Reference observations should be SEQ NON-INT.</p> <p>(Fomalhaut-2300C-Rot1 (Obs 7)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Fomalhaut-2300C-Rot1 (Obs 7)) Warning (Form): This target should have similar background exposures that are linked in a non-interruptible sequence.</p> <p>(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																												
Diagnostics	<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>(16)</td> <td>FOMALHAUT-COPY-MIRI-CORON</td> <td>RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000</td> <td>Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67 mas/yr Parallax: 0.12981" Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> <p><i>Comments: 10 parsec sample in GAIA era (Reyle, 2021)</i></p> <p><i>A4V-type star</i> <i>Kmag=1.05</i></p> <p><i>15.5 mu F: 6.75 Jy</i> <i>23.0 mu F: 3.08 Jy</i> <i>25.5 mu F: 2.52 Jy</i> <i>Category=Star</i> <i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i> <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(16)	FOMALHAUT-COPY-MIRI-CORON	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67 mas/yr Parallax: 0.12981" Epoch of Position: 2000										
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																								
(16)	FOMALHAUT-COPY-MIRI-CORON	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67 mas/yr Parallax: 0.12981" Epoch of Position: 2000																										
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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	4	1	1	1.296	88123.5																				
Fixed Targets	<p>Repeat observation</p> <p>NO</p>																												
	<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															
#	Dither Type																												
1	NONE																												
Acquisition																													
Template																													
Dithers																													

Proposal 1193 - Observation 7 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	LYOT/F2300C	MASKLYOT	LYOT	F2300C	FASTR1	102	29	1	1	29	967.464	88123.9
PSF References	FomalhautPSF-2300C (Obs 2) (PSF Reference; Filters [F2300C]) Additional Justification: false												
Special Requirements	Aperture PA Range 50.63544897 to 50.63544897 Degrees (V3 45.8 to 45.8) Offset 0.147 arcsec, 0.183 arcsec No Parallel Attachments Aperture PA Offset 12 from 7 by 10 to 14 Degrees (Same offsets in V3)												

Proposal 1193 - Observation 8 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 8: Fomalhaut-2300C-background</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observation For: []</p>												
Diagnostics	(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
(18)	FOMALHAUT-F2300C-BACK	RA: 22 57 37.9131 (344.4079713d) Dec: -29 37 33.03 (-29.62584d) Equinox: J2000			Epoch of Position: 2022								
<p><i>Comments: Fomalhaut Lyot background in 2022</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Coronagraphic, Telescope/sky background]</i></p>													
Acquisition	#	Target											
1	NONE												
Template	AcqFilter	Repeat observation					Background Quadrant						
	NO					1							
Dithers	#	Dither Type											
1	NONE												
Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	LYOT/F2300C	MASKLYOT	LYOT	F2300C	FASTR1	102	29	1	1	29	967.464		
PSF References	Additional Justification: false												

Special Requirements

No Parallel Attachments

Proposal 1193 - Observation 9 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 9: Fomalhaut-1550C-Rot1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observations:[]</p> <p><i>Comments: 15.5 mu F: 6.788 Jy and 23.0 mu F: 3.11 Jy</i></p> <p><i>TA: My calculations give 20 frames to 150k and 26 frames to 200k. ETC gives 15 as still OK. Agreed.</i></p> <p><i>Let's make sure we don't saturate for TA and use only 9 frames.</i></p> <p><i>TA in quadrant 1</i></p> <p><i>Coronagraphic Imaging:</i></p> <p><i>Group to 150k e: 217.54 and to 200k e: 290.06</i></p> <p><i>21 mas offset would require 67% reduction in groups to avoid saturation, i.e. ~ 146</i></p> <p><i>Background limit reached at 1296.82 groups!</i></p> <p><i>Let's be more conservative. We don't need more than 50 points to fit a slope well!</i></p>									
	<p>(Fomalhaut-1550C-Rot1 (Obs 9)) Warning (Form): PSF Reference observations should be SEQ NON-INT.</p> <p>(Fomalhaut-1550C-Rot1 (Obs 9)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Fomalhaut-1550C-Rot1 (Obs 9)) Warning (Form): This target should have similar background exposures that are linked in a non-interruptible sequence.</p> <p>(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
Diagnostics										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(16)	FOMALHAUT-COPY-MIRI-CORON	RA: 22 57 39.0463 (344.4126929d)	Dec: -29 37 20.05 (-29.62224d)	Equinox: J2000	Proper Motion RA: 328.95 mas/yr	Proper Motion Dec: -164.67 mas/yr	Parallax: 0.12981"	Epoch of Position: 2000	
<p><i>Comments: 10 parsec sample in GAIA era (Reyle, 2021)</i></p> <p><i>A4V-type star</i></p> <p><i>Kmag=1.05</i></p> <p><i>15.5 mu F: 6.75 Jy</i></p> <p><i>23.0 mu F: 3.08 Jy</i></p> <p><i>25.5 mu F: 2.52 Jy</i></p> <p><i>Category=Star</i></p> <p><i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i></p> <p><i>Extended=NO</i></p>										
Acquisition	#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	FND	1	FAST	6	1	1	1.438	88123.7
Template	Repeat observation									
	NO									
Dithers	#	Dither Type								
	1	NONE								

Proposal 1193 - Observation 9 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dithers	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1550C	MASK1550	4QPM	F1550C	FASTR1	211	18	1	1	18	914.379	88123.3
PSF References	FomalhautPSF-1550C (Obs 4) (PSF Reference; Filters [F1550C]) Additional Justification: false												
Special Requirements	Aperture PA Range 52.05544897 to 52.05544897 Degrees (V3 47.22 to 47.22) Offset 0.226 arcsec, 0.156 arcsec No Parallel Attachments Aperture PA Offset 11 from 9 by 10 to 14 Degrees (Same offsets in V3)												

Proposal 1193 - Observation 10 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 10: Fomalhaut-F1550C-background</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observation For: []</p>												
Diagnostics	(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
(17)	FOMALHAUT-F1550C-BACK	RA: 22 57 37.8407 (344.4076696d) Dec: -29 37 30.10 (-29.62503d) Equinox: J2000			Epoch of Position: 2022								
<p><i>Comments: Fomalhaut F1550C background for 2022</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Coronagraphic, Telescope/sky background]</i></p>													
Acquisition	#	Target											
1	NONE												
Template	AcqFilter	Repeat observation					Background Quadrant						
		NO					1						
Dithers	#	Dither Type											
1	NONE												
Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	4QPM/F1550C	MASK1550	4QPM	F1550C	FASTR1	211	18	1	1	18	914.379		
PSF References	Additional Justification: false												

Special Requirements

No Parallel Attachments

Proposal 1193 - Observation 11 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 11: Fomalhaut-1550C-Rot2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observations:[]</p> <p><i>Comments: 15.5 mu F: 6.788 Jy and 23.0 mu F: 3.11 Jy</i></p> <p><i>TA: My calculations give 20 frames to 150k and 26 frames to 200k. ETC gives 15 as still OK. Agreed.</i></p> <p><i>Let's make sure we don't saturate for TA and use only 9 frames.</i></p> <p><i>TA in quadrant 3</i></p> <p><i>Coronagraphic Imaging:</i></p> <p><i>Group to 150k e: 217.54 and to 200k e: 290.06</i></p> <p><i>21 mas offset would require 67% reduction in groups to avoid saturation, i.e. ~ 146</i></p> <p><i>Background limit reached at 1296.82 groups!</i></p> <p><i>Let's be more conservative. We don't need more than 50 points to fit a slope well!</i></p>																													
	<p>(Fomalhaut-1550C-Rot2 (Obs 11)) Warning (Form): PSF Reference observations should be SEQ NON-INT.</p> <p>(Fomalhaut-1550C-Rot2 (Obs 11)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Fomalhaut-1550C-Rot2 (Obs 11)) Warning (Form): This target should have similar background exposures that are linked in a non-interruptible sequence.</p> <p>(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																													
Diagnosics																														
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(16)</td> <td>FOMALHAUT-COPY-MIRI-CORON</td> <td>RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000</td> <td>Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67 mas/yr Parallax: 0.12981" Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> <p><i>Comments: 10 parsec sample in GAIA era (Reyle, 2021)</i></p> <p><i>A4V-type star</i></p> <p><i>Kmag=1.05</i></p> <p><i>15.5 mu F: 6.75 Jy</i></p> <p><i>23.0 mu F: 3.08 Jy</i></p> <p><i>25.5 mu F: 2.52 Jy</i></p> <p><i>Category=Star</i></p> <p><i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i></p> <p><i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(16)	FOMALHAUT-COPY-MIRI-CORON	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67 mas/yr Parallax: 0.12981" Epoch of Position: 2000											
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																									
(16)	FOMALHAUT-COPY-MIRI-CORON	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67 mas/yr Parallax: 0.12981" Epoch of Position: 2000																											
Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Filter</th> <th>Quadrant</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>FND</td> <td>1</td> <td>FAST</td> <td>6</td> <td>1</td> <td>1</td> <td>1.438</td> <td>88123.7</td> </tr> </tbody> </table>										#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	SAME	FND	1	FAST	6	1	1	1.438	88123.7
	#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																				
1	SAME	FND	1	FAST	6	1	1	1.438	88123.7																					
Template	<p>Repeat observation</p> <p>NO</p>																													
Dithers	<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																
	#	Dither Type																												
1	NONE																													

Proposal 1193 - Observation 11 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dithers	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1550C	MASK1550	4QPM	F1550C	FASTR1	211	18	1	1	18	914.379	88123.3
PSF References	FomalhautPSF-1550C (Obs 4) (PSF Reference; Filters [F1550C]) Additional Justification: false												
Special Requirements	Offset 0.226 arcsec, 0.156 arcsec No Parallel Attachments Aperture PA Offset 11 from 9 by 10 to 14 Degrees (Same offsets in V3)												

Proposal 1193 - Observation 12 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 12: Fomalhaut-2300C-Rot2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observations:[]</p> <p><i>Comments: 15.5 mu F: 6.788 Jy and 23.0 mu F: 3.11 Jy</i></p> <p><i>TA: My calculations give 22 frames to 150k and 30 frames to 200k. ETC gives 75 frames as still OK. I'll be conservative. Let's make sure we don't saturate for TA and use only 15 frames. TA in quadrant 3</i></p> <p><i>Coronagraphic Imaging:</i> <i>Group to 150k e: 19.95 and to 200k e: 26.60</i> <i>Background limit reached at 12.47 groups!</i> <i>Let's max out at 13 groups!</i></p>																												
	<p>(Fomalhaut-2300C-Rot2 (Obs 12)) Warning (Form): PSF Reference observations should be SEQ NON-INT.</p> <p>(Fomalhaut-2300C-Rot2 (Obs 12)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Fomalhaut-2300C-Rot2 (Obs 12)) Warning (Form): This target should have similar background exposures that are linked in a non-interruptible sequence.</p> <p>(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																												
Diagnosics	<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>(16)</td> <td>FOMALHAUT-COPY-MIRI-CORON</td> <td>RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000</td> <td>Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67 mas/yr Parallax: 0.12981" Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> <p><i>Comments: 10 parsec sample in GAIA era (Reyle, 2021)</i></p> <p><i>A4V-type star</i> <i>Kmag=1.05</i></p> <p><i>15.5 mu F: 6.75 Jy</i> <i>23.0 mu F: 3.08 Jy</i> <i>25.5 mu F: 2.52 Jy</i> <i>Category=Star</i> <i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i> <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(16)	FOMALHAUT-COPY-MIRI-CORON	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67 mas/yr Parallax: 0.12981" Epoch of Position: 2000										
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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	3	FAST	4	1	1	1.296	88123.5																				
Fixed Targets	<p>Repeat observation</p> <p>NO</p>																												
	<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															
#	Dither Type																												
1	NONE																												
Acquisition																													
Template																													
Dithers																													

Proposal 1193 - Observation 12 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dithers	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	LYOT/F2300C	MASKLYOT	LYOT	F2300C	FASTR1	102	29	1	1	29	967.464	88123.9
PSF References	FomalhautPSF-2300C (Obs 2) (PSF Reference; Filters [F2300C]) Additional Justification: false												
Special Requirements	Offset 0.147 arcsec, 0.183 arcsec No Parallel Attachments Aperture PA Offset 12 from 7 by 10 to 14 Degrees (Same offsets in V3)												

Proposal 1193 - Observation 13 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 13: Fomalhaut-2550W-Rot2</p> <p>Diagnostic Status: Error</p> <p>Observing Template: MIRI Imaging</p> <p><i>Comments: 69 fully saturation, 48 partial saturation</i></p>										
	<p>(Fomalhaut-2550W-Rot2 (Obs 13)) Error (Form): Permission has not been granted for this program to use Special Requirement 'No Parallel Attachments'.</p> <p>(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>										
Diagnosics											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(15)	FOMALHAUT	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000			Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67 mas/yr Parallax: 0.12981" Epoch of Position: 2000					
<p><i>Comments: 10 parsec sample in GAIA era (Reyle, 2021)</i></p> <p><i>A4V-type star</i></p> <p><i>Kmag=1.05</i></p> <p><i>15.5 mu F: 6.75 Jy</i></p> <p><i>23.0 mu F: 3.08 Jy</i></p> <p><i>25.5 mu F: 2.52 Jy</i></p> <p><i>Category=Star</i></p> <p><i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i></p> <p><i>Extended=NO</i></p>											
Template	Subarray										
	BRIGHTSKY										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				6	1	EXTENDED SOURCE	POSITIVE	DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F2550W	FASTR1	5	52	1	Dither 1	4	208	1076.408	88123.2

Proposal 1193 - Observation 13 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

Special Requirements

No Parallel Attachments

Aperture PA Offset 13 from 6 by 10 to 14 Degrees (Same offsets in V3)

Proposal 1193 - Observation 14 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 14: Fomalhaut - NIRCcam - Roll 1 - FULL - MA430R Diagnostic Status: Error Observing Template: NIRCcam Coronagraphic Imaging																																							
Diagnostics	(Fomalhaut - NIRCcam - Roll 1 - FULL - MA430R (Obs 14)) Error (Form): Short Filter is a required field. (Fomalhaut - NIRCcam - Roll 1 - FULL - MA430R (Obs 14)) Error (Form): Short Filter is a required field. (Fomalhaut - NIRCcam - Roll 1 - FULL - MA430R (Obs 14)) Warning (Form): PSF Reference observations should be SEQ NON-INT. (Fomalhaut - NIRCcam - Roll 1 - FULL - MA430R (Obs 14)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees (Fomalhaut - NIRCcam - Roll 1 - FULL - MA430R (Obs 14)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging. (Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																							
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(15)</td> <td>FOMALHAUT</td> <td>RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000</td> <td>Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67 mas/yr Parallax: 0.12981" Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> <p><i>Comments: 10 parsec sample in GAIA era (Reyle, 2021)</i></p> <p><i>A4V-type star</i> <i>Kmag=1.05</i></p> <p><i>15.5 mu F: 6.75 Jy</i> <i>23.0 mu F: 3.08 Jy</i> <i>25.5 mu F: 2.52 Jy</i> <i>Category=Star</i> <i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i> <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(15)	FOMALHAUT	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67 mas/yr Parallax: 0.12981" Epoch of Position: 2000																					
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1	SAME	F335M	BRIGHT (ND Square)	RAPID	3	1	1	0.203	40827.1																															
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#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																															
1		F356W	RAPID	2	13	1	13	407.997	40827.2																															
2		F444W	RAPID	2	24	1	24	762.311	40827.3																															

Proposal 1193 - Observation 14 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

PSF References	Fomalhaut Ref star - NIRCcam - Roll 2 - FULL - MA430R (Obs 19) (PSF Reference; Filters [null/F356W, null/F444W]) Additional Justification: false
Special Requirements	Aperture PA Range 47.20430825 to 47.20430825 Degrees (V3 47.0 to 47.0)

Proposal 1193 - Observation 15 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 15: Fomalhaut - NIRCcam - Roll 1 - SUB320 - MA430R Diagnostic Status: Error Observing Template: NIRCcam Coronagraphic Imaging																													
	(Fomalhaut - NIRCcam - Roll 1 - SUB320 - MA430R (Obs 15)) Error (Form): Short Filter is a required field. (Fomalhaut - NIRCcam - Roll 1 - SUB320 - MA430R (Obs 15)) Error (Form): Short Filter is a required field. (Fomalhaut - NIRCcam - Roll 1 - SUB320 - MA430R (Obs 15)) Warning (Form): PSF Reference observations should be SEQ NON-INT. (Fomalhaut - NIRCcam - Roll 1 - SUB320 - MA430R (Obs 15)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees (Fomalhaut - NIRCcam - Roll 1 - SUB320 - MA430R (Obs 15)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging. (Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																													
Diagnostics																														
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	#	Target	Filter	Target Brightness	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																				
1	SAME	F335M	BRIGHT (ND Square)	RAPID	3	1	1	0.203	40827.5																					
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	#	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																								

Proposal 1193 - Observation 15 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		F356W	RAPID	3	105	1	105	451.147	40827.22
	2		F444W	BRIGHT2	2	168	1	168	901.434	40827.7
PSF References	Fomalhaut Ref star - NIRCam - Roll 2 - SUB320 - MA430R (Obs 18) (PSF Reference; Filters [null/F356W, null/F444W]) Additional Justification: false									
Special Requirements	Aperture PA Range 47.20430825 to 47.20430825 Degrees (V3 47.0 to 47.0)									

Proposal 1193 - Observation 16 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 16: Fomalhaut - NIRCcam - Roll 2 - SUB320 - M430R</p> <p>Diagnostic Status: Error</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p>																													
Diagnostics	<p>(Fomalhaut - NIRCcam - Roll 2 - SUB320 - M430R (Obs 16)) Error (Form): Short Filter is a required field.</p> <p>(Fomalhaut - NIRCcam - Roll 2 - SUB320 - M430R (Obs 16)) Error (Form): Short Filter is a required field.</p> <p>(Fomalhaut - NIRCcam - Roll 2 - SUB320 - M430R (Obs 16)) Warning (Form): PSF Reference observations should be SEQ NON-INT.</p> <p>(Fomalhaut - NIRCcam - Roll 2 - SUB320 - M430R (Obs 16)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Fomalhaut - NIRCcam - Roll 2 - SUB320 - M430R (Obs 16)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging.</p> <p>(Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																													
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1	SAME	F335M	BRIGHT (ND Square)	RAPID	3	1	1	0.203	40827.5																					
Template	<table border="1"> <thead> <tr> <th>Module</th> <th>Coronagraphic Mask</th> <th>Obtain Astrometric Confirmation Images?</th> <th>Subarray</th> <th>Dither Pattern</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>MASK430R</td> <td>true</td> <td>SUB320A430R</td> <td>NONE</td> </tr> </tbody> </table>										Module	Coronagraphic Mask	Obtain Astrometric Confirmation Images?	Subarray	Dither Pattern	A	MASK430R	true	SUB320A430R	NONE										
Module	Coronagraphic Mask	Obtain Astrometric Confirmation Images?	Subarray	Dither Pattern																										
A	MASK430R	true	SUB320A430R	NONE																										
Confirmation	<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>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>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						
#	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																								

Proposal 1193 - Observation 16 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		F356W	RAPID	3	105	1	105	451.147	40827.6
	2		F444W	BRIGHT2	2	168	1	168	901.434	40827.7
PSF References	Fomalhaut Ref star - NIRCcam - Roll 2 - SUB320 - MA430R (Obs 18) (PSF Reference; Filters [null/F356W, null/F444W]) Additional Justification: false									
Special Requirements	Aperture PA Range 57.20430825 to 57.20430825 Degrees (V3 57.0 to 57.0)									

Proposal 1193 - Observation 17 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 17: Fomalhaut - NIRCcam - Roll 2 - FULL - M430R Diagnostic Status: Error Observing Template: NIRCcam Coronagraphic Imaging									
Diagnostics	(Fomalhaut - NIRCcam - Roll 2 - FULL - M430R (Obs 17)) Error (Form): Short Filter is a required field. (Fomalhaut - NIRCcam - Roll 2 - FULL - M430R (Obs 17)) Error (Form): Short Filter is a required field. (Fomalhaut - NIRCcam - Roll 2 - FULL - M430R (Obs 17)) Warning (Form): PSF Reference observations should be SEQ NON-INT. (Fomalhaut - NIRCcam - Roll 2 - FULL - M430R (Obs 17)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees (Fomalhaut - NIRCcam - Roll 2 - FULL - M430R (Obs 17)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging. (Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous			
	(15)	FOMALHAUT	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67 mas/yr Parallax: 0.12981" Epoch of Position: 2000						
	Comments: 10 parsec sample in GAIA era (Reyle, 2021) A4V-type star Kmag=1.05 15.5 mu F: 6.75 Jy 23.0 mu F: 3.08 Jy 25.5 mu F: 2.52 Jy Category=Star Description=[Circumstellar disks, Debris disks, Exoplanet Systems] Extended=NO									
Acquisition	#	Target	Filter	Target Brightness	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	F335M	BRIGHT (ND Square)	RAPID	3	1	1	0.203	40827.1
Template	Module	Coronagraphic Mask			Obtain Astrometric Confirmation Images?		Subarray	Dither Pattern		
	A	MASK430R			false		FULL	NONE		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		F356W	RAPID	2	13	1	13	407.997	40827.2
	2		F444W	RAPID	2	24	1	24	762.311	40827.3

Proposal 1193 - Observation 17 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

PSF References	Fomalhaut Ref star - NIRCam - Roll 2 - FULL - MA430R (Obs 19) (PSF Reference; Filters [null/F356W, null/F444W]) Additional Justification: false
Special Requirements	Aperture PA Range 57.20430825 to 57.20430825 Degrees (V3 57.0 to 57.0)

Proposal 1193 - Observation 18 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 18: Fomalhaut Ref star - NIRCcam - Roll 2 - SUB320 - MA430R Diagnostic Status: Error Observing Template: NIRCcam Coronagraphic Imaging																																							
	(Fomalhaut Ref star - NIRCcam - Roll 2 - SUB320 - MA430R (Obs 18)) Error (Form): Short Filter is a required field. (Fomalhaut Ref star - NIRCcam - Roll 2 - SUB320 - MA430R (Obs 18)) Error (Form): Short Filter is a required field. (Fomalhaut Ref star - NIRCcam - Roll 2 - SUB320 - MA430R (Obs 18)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging. (Visit 18:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																							
Diagnosics																																								
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(22)</td> <td>FOMALHAUT-PSF-NIRCAM</td> <td> RA: 22 54 38.9684 (343.6623683d) Dec: -15 49 15.37 (-15.82094d) Equinox: J2000 </td> <td> Proper Motion RA: -34.152 mas/yr Proper Motion Dec: -26.359 mas/yr Parallax: 0.023145" Epoch of Position: 2016.0 </td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(22)	FOMALHAUT-PSF-NIRCAM	RA: 22 54 38.9684 (343.6623683d) Dec: -15 49 15.37 (-15.82094d) Equinox: J2000	Proper Motion RA: -34.152 mas/yr Proper Motion Dec: -26.359 mas/yr Parallax: 0.023145" Epoch of Position: 2016.0		Comments: Positional, parallax, and PM info from GAIA DR3 Teff ~ 9000 K A3V type star Distance: 13.8 deg from Fomalhaut. Kmag=3.06 Should check coordinates against Gaia catalogue of nearby stars. Category=Calibration Description=[Coronagraphic] Extended=NO																												
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																			
(22)	FOMALHAUT-PSF-NIRCAM	RA: 22 54 38.9684 (343.6623683d) Dec: -15 49 15.37 (-15.82094d) Equinox: J2000	Proper Motion RA: -34.152 mas/yr Proper Motion Dec: -26.359 mas/yr Parallax: 0.023145" Epoch of Position: 2016.0																																					
Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Filter</th> <th>Target Brightness</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>F335M</td> <td>BRIGHT (ND Square)</td> <td>RAPID</td> <td>9</td> <td>1</td> <td>1</td> <td>0.504</td> <td>40827.8</td> </tr> </tbody> </table>	#	Target	Filter	Target Brightness	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	SAME	F335M	BRIGHT (ND Square)	RAPID	9	1	1	0.504	40827.8																			
	#	Target	Filter	Target Brightness	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																														
1	SAME	F335M	BRIGHT (ND Square)	RAPID	9	1	1	0.504	40827.8																															
Template	<table border="1"> <thead> <tr> <th>Module</th> <th>Coronagraphic Mask</th> <th>Obtain Astrometric Confirmation Images?</th> <th>Subarray</th> <th>Dither Pattern</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>MASK430R</td> <td>false</td> <td>SUB320A430R</td> <td>5-POINT-BOX</td> </tr> </tbody> </table>	Module	Coronagraphic Mask	Obtain Astrometric Confirmation Images?	Subarray	Dither Pattern	A	MASK430R	false	SUB320A430R	5-POINT-BOX																													
	Module	Coronagraphic Mask	Obtain Astrometric Confirmation Images?	Subarray	Dither Pattern																																			
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Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Short Filter</th> <th>Long 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></td> <td>F356W</td> <td>RAPID</td> <td>9</td> <td>17</td> <td>5</td> <td>85</td> <td>910.425</td> <td>40827.9</td> </tr> <tr> <td>2</td> <td></td> <td>F444W</td> <td>BRIGHT2</td> <td>9</td> <td>18</td> <td>5</td> <td>90</td> <td>1829.902</td> <td>40827.10</td> </tr> </tbody> </table>	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1		F356W	RAPID	9	17	5	85	910.425	40827.9	2		F444W	BRIGHT2	9	18	5	90	1829.902	40827.10									
	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																														
	1		F356W	RAPID	9	17	5	85	910.425	40827.9																														
2		F444W	BRIGHT2	9	18	5	90	1829.902	40827.10																															

PSF References

PSF Reference: true

Proposal 1193 - Observation 19 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 19: Fomalhaut Ref star - NIRCcam - Roll 2 - FULL - MA430R Diagnostic Status: Error Observing Template: NIRCcam Coronagraphic Imaging																																								
	(Fomalhaut Ref star - NIRCcam - Roll 2 - FULL - MA430R (Obs 19)) Error (Form): Short Filter is a required field. (Fomalhaut Ref star - NIRCcam - Roll 2 - FULL - MA430R (Obs 19)) Error (Form): Short Filter is a required field. (Fomalhaut Ref star - NIRCcam - Roll 2 - FULL - MA430R (Obs 19)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging. (Visit 19:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																								
Diagnosics																																									
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="2">Targ. Coord. Corrections</th> <th colspan="5">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(22)</td> <td>FOMALHAUT-PSF-NIRCAM</td> <td> RA: 22 54 38.9684 (343.6623683d) Dec: -15 49 15.37 (-15.82094d) Equinox: J2000 </td> <td>Proper Motion RA: -34.152 mas/yr</td> <td>Proper Motion Dec: -26.359 mas/yr</td> <td>Parallax: 0.023145"</td> <td colspan="4">Epoch of Position: 2016.0</td> </tr> <tr> <td colspan="10"> <i>Comments: Positional, parallax, and PM info from GAIA DR3</i> <i>Teff ~ 9000 K</i> <i>A3V type star</i> <i>Distance: 13.8 deg from Fomalhaut.</i> <i>Kmag=3.06</i> <i>Should check coordinates against Gaia catalogue of nearby stars.</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic]</i> <i>Extended=NO</i> </td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections		Miscellaneous					(22)	FOMALHAUT-PSF-NIRCAM	RA: 22 54 38.9684 (343.6623683d) Dec: -15 49 15.37 (-15.82094d) Equinox: J2000	Proper Motion RA: -34.152 mas/yr	Proper Motion Dec: -26.359 mas/yr	Parallax: 0.023145"	Epoch of Position: 2016.0				<i>Comments: Positional, parallax, and PM info from GAIA DR3</i> <i>Teff ~ 9000 K</i> <i>A3V type star</i> <i>Distance: 13.8 deg from Fomalhaut.</i> <i>Kmag=3.06</i> <i>Should check coordinates against Gaia catalogue of nearby stars.</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic]</i> <i>Extended=NO</i>																			
	#	Name	Target Coordinates	Targ. Coord. Corrections		Miscellaneous																																			
(22)	FOMALHAUT-PSF-NIRCAM	RA: 22 54 38.9684 (343.6623683d) Dec: -15 49 15.37 (-15.82094d) Equinox: J2000	Proper Motion RA: -34.152 mas/yr	Proper Motion Dec: -26.359 mas/yr	Parallax: 0.023145"	Epoch of Position: 2016.0																																			
<i>Comments: Positional, parallax, and PM info from GAIA DR3</i> <i>Teff ~ 9000 K</i> <i>A3V type star</i> <i>Distance: 13.8 deg from Fomalhaut.</i> <i>Kmag=3.06</i> <i>Should check coordinates against Gaia catalogue of nearby stars.</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic]</i> <i>Extended=NO</i>																																									
Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Filter</th> <th>Target Brightness</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>F335M</td> <td>BRIGHT (ND Square)</td> <td>RAPID</td> <td>9</td> <td>1</td> <td>1</td> <td>0.504</td> <td>40827.11</td> </tr> </tbody> </table>	#	Target	Filter	Target Brightness	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	SAME	F335M	BRIGHT (ND Square)	RAPID	9	1	1	0.504	40827.11																				
	#	Target	Filter	Target Brightness	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																															
1	SAME	F335M	BRIGHT (ND Square)	RAPID	9	1	1	0.504	40827.11																																
Template	<table border="1"> <thead> <tr> <th>Module</th> <th>Coronagraphic Mask</th> <th>Obtain Astrometric Confirmation Images?</th> <th>Subarray</th> <th>Dither Pattern</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>MASK430R</td> <td>false</td> <td>FULL</td> <td>5-POINT-BOX</td> </tr> </tbody> </table>	Module	Coronagraphic Mask	Obtain Astrometric Confirmation Images?	Subarray	Dither Pattern	A	MASK430R	false	FULL	5-POINT-BOX																														
	Module	Coronagraphic Mask	Obtain Astrometric Confirmation Images?	Subarray	Dither Pattern																																				
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Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Short Filter</th> <th>Long 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></td> <td>F356W</td> <td>RAPID</td> <td>2</td> <td>5</td> <td>5</td> <td>25</td> <td>751.574</td> <td>40827.12</td> </tr> <tr> <td>2</td> <td></td> <td>F444W</td> <td>RAPID</td> <td>3</td> <td>7</td> <td>5</td> <td>35</td> <td>1449.464</td> <td>40827.13</td> </tr> </tbody> </table>	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1		F356W	RAPID	2	5	5	25	751.574	40827.12	2		F444W	RAPID	3	7	5	35	1449.464	40827.13										
	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																															
	1		F356W	RAPID	2	5	5	25	751.574	40827.12																															
2		F444W	RAPID	3	7	5	35	1449.464	40827.13																																

PSF References

PSF Reference: true

Proposal 1193 - Observation 20 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 20: Vega-F2550W-background</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p> <p>Background Observation For: [VegaPSF-2300C (Obs 22), VegaPSF-1550C (Obs 24)]</p> <p><i>Comments: Group to 150k e: 3.57 and to 200k e: 4.76</i></p> <p><i>Background limit reached at 3.08 groups!</i></p> <p><i>Min recommended groups: 5. Let's go with that. Probably not saturates.</i></p>										
Diagnostics	(Visit 20:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous			
	(7)	VEGA-PSF-MIRI-CORON- BACK	RA: 18 21 58.9484 (275.4956183d) Dec: +49 09 6.85 (49.15190d) Equinox: J2000			Proper Motion RA: 0 mas/yr Proper Motion Dec: 0 mas/yr Parallax: 0" Epoch of Position: 2022					
	<p><i>Comments: Background for Vega MIRI PSF</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Coronagraphic, Telescope/sky background]</i></p> <p><i>Extended=NO</i></p>										
Template	<p>Subarray</p> <p>BRIGHTSKY</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	CYCLING	5	4		6	1			LARGE	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F2550W	FASTR1	5	52	1	Dither 1	4	208	1076.408	87354.1
Special Requirements	Sequence Observations 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, Non-interruptible										

Proposal 1193 - Observation 21 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 21: VegaPSF-2550W Diagnostic Status: Warning Observing Template: MIRI Imaging <i>Comments: Group to 150k e: 3.57 and to 200k e: 4.76</i> <i>Background limit reached at 3.08 groups!</i> <i>Min recommended groups: 5. Let's go with that. Probably not saturates.</i>																															
	(Visit 21:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																															
Diagnostics																																
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(5)</td> <td>VEGA-PSF-MIRI-F2550</td> <td>RA: 18 21 32.6635 (275.3860979d) Dec: +49 07 17.73 (49.12159d) Equinox: J2000</td> <td>Proper Motion RA: -24.267 mas/yr Proper Motion Dec: 50.93 mas/yr Parallax: 0.0049088" Epoch of Position: 2000.0</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(5)	VEGA-PSF-MIRI-F2550	RA: 18 21 32.6635 (275.3860979d) Dec: +49 07 17.73 (49.12159d) Equinox: J2000	Proper Motion RA: -24.267 mas/yr Proper Motion Dec: 50.93 mas/yr Parallax: 0.0049088" Epoch of Position: 2000.0		<i>Comments: Coordinate data from GAIAI EDR3</i> <i>Used as PSF for MIRI for both coron and non-coron imaging</i> <i>M2III type star</i> <i>Distance: 10.699 deg from Vega</i> <i>Kmag=0.57</i> <i>15.5 mu F: 10.59 Jy</i> <i>23.0 mu F: 4.88 Jy</i> <i>25.5 mu F: 3.99 Jy</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Point spread function]</i> <i>Extended=NO</i>																				
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																											
(5)	VEGA-PSF-MIRI-F2550	RA: 18 21 32.6635 (275.3860979d) Dec: +49 07 17.73 (49.12159d) Equinox: J2000	Proper Motion RA: -24.267 mas/yr Proper Motion Dec: 50.93 mas/yr Parallax: 0.0049088" Epoch of Position: 2000.0																													
Template	Subarray BRIGHTSKY																															
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Starting Point</th> <th>Number of Points</th> <th>Points</th> <th>Starting Set</th> <th>Number of Sets</th> <th>Optimized For</th> <th>Direction</th> <th>Pattern Size</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4-Point-Sets</td> <td></td> <td></td> <td></td> <td>6</td> <td>1</td> <td>EXTENDED SOURCE</td> <td>POSITIVE</td> <td>DEFAULT</td> </tr> </tbody> </table>	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	1	4-Point-Sets				6	1	EXTENDED SOURCE	POSITIVE	DEFAULT											
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Spectral Elements	<table border="1"> <thead> <tr> <th>#</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>F2550W</td> <td>FASTR1</td> <td>5</td> <td>52</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>208</td> <td>1076.408</td> <td>87354.1</td> </tr> </tbody> </table>	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	F2550W	FASTR1	5	52	1	Dither 1	4	208	1076.408	87354.1									
	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																					
1	F2550W	FASTR1	5	52	1	Dither 1	4	208	1076.408	87354.1																						

Proposal 1193 - Observation 21 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

Special Requirements

Sequence Observations 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, Non-interruptible

Proposal 1193 - Observation 22 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 22: VegaPSF-2300C</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observations:[Vega-F2550W-background (Obs 20), VegaPSF-2300C-background (Obs 23), VegaPSF-1550C (Obs 24), VegaPSF-1550C-background (Obs 25)]</p> <p><i>Comments: Assuming pi Her as PSF, with 15.5 mu F: 18.99 Jy and 23.0 mu F: 7.34 Jy</i></p> <p><i>TA: My calculations give 9 frames to 150k and 12 to 200k. ETC gives 33 frames still OK. (??)</i> <i>Let's make sure we don't saturate for TA and use only 5 frames.</i> <i>TA in quadrant 4, others in 1 and 3</i></p> <p><i>Coronagraphic Imaging:</i> <i>Group to 150k e: 76.79 and to 200k e: 102.39</i> <i>Background noise limit reached at 12.47 groups!</i> <i>Let's max out at 13 groups!</i></p>																													
	<p>(Visit 22:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																													
Diagnostics																														
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>VEGA-PSF-MIRI-CORON</td> <td>RA: 18 21 32.6635 (275.3860979d) Dec: +49 07 17.73 (49.12159d) Equinox: J2000</td> <td>Proper Motion RA: -24.267 mas/yr Proper Motion Dec: 50.93 mas/yr Parallax: 0.0049088" Epoch of Position: 2000.0</td> <td></td> </tr> </tbody> </table> <p><i>Comments: Coordinate data from GAIAI EDR3</i></p> <p><i>Used as PSF for MIRI for both coron and non-coron imaging. Copied here for coronagraphy to avoid APT warnings.</i></p> <p><i>M2III type star</i> <i>Distance: 10.699 deg from Vega</i> <i>Kmag=0.57</i></p> <p><i>15.5 mu F: 10.59 Jy</i> <i>23.0 mu F: 4.88 Jy</i> <i>25.5 mu F: 3.99 Jy</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Point spread function]</i> <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(6)	VEGA-PSF-MIRI-CORON	RA: 18 21 32.6635 (275.3860979d) Dec: +49 07 17.73 (49.12159d) Equinox: J2000	Proper Motion RA: -24.267 mas/yr Proper Motion Dec: 50.93 mas/yr Parallax: 0.0049088" Epoch of Position: 2000.0											
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(6)	VEGA-PSF-MIRI-CORON	RA: 18 21 32.6635 (275.3860979d) Dec: +49 07 17.73 (49.12159d) Equinox: J2000	Proper Motion RA: -24.267 mas/yr Proper Motion Dec: 50.93 mas/yr Parallax: 0.0049088" Epoch of Position: 2000.0																											
Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Filter</th> <th>Quadrant</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>FND</td> <td>4</td> <td>FAST</td> <td>4</td> <td>1</td> <td>1</td> <td>1.296</td> <td>87354.6</td> </tr> </tbody> </table>										#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	SAME	FND	4	FAST	4	1	1	1.296	87354.6
	#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																				
1	SAME	FND	4	FAST	4	1	1	1.296	87354.6																					
Template	<p>Repeat observation</p> <p>NO</p>																													
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>9-POINT-SMALL-GRID</td> </tr> </tbody> </table>										#	Dither Type	1	9-POINT-SMALL-GRID																
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Proposal 1193 - Observation 22 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dithers	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	LYOT/F2300C	MASKLYOT	LYOT	F2300C	FASTR1	74	9	1	9	81	1965.384	87354.10
PSF References	PSF Reference: true												
Special Requirements	No Parallel Attachments Sequence Observations 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, Non-interruptible												

Proposal 1193 - Observation 23 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 23: VegaPSF-2300C-background Diagnostic Status: Warning Observing Template: MIRI Coronagraphic Imaging Background Observation For: [VegaPSF-2300C (Obs 22), VegaPSF-1550C (Obs 24)]												
	(Visit 23:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Diagnosics													
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections				Miscellaneous		
	(7)	VEGA-PSF-MIRI-CORON-BACK	RA: 18 21 58.9484 (275.4956183d) Dec: +49 09 6.85 (49.15190d) Equinox: J2000				Proper Motion RA: 0 mas/yr Proper Motion Dec: 0 mas/yr Parallax: 0" Epoch of Position: 2022						
<i>Comments: Background for Vega MIRI PSF</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Telescope/sky background]</i> <i>Extended=NO</i>													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Repeat observation				Background Quadrant							
		YES				1							
Dithers	#	Dither Type											
	1	BACKGROUND											
Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	LYOT/F2300C	MASKLYOT	LYOT	F2300C	FASTR1	74	9	1	2	18	436.752	

Proposal 1193 - Observation 23 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

PSF References	Additional Justification: false
Special Requirements	No Parallel Attachments Sequence Observations 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, Non-interruptible

Proposal 1193 - Observation 24 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 24: VegaPSF-1550C</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observations:[Vega-F2550W-background (Obs 20), VegaPSF-2300C (Obs 22), VegaPSF-2300C-background (Obs 23), VegaPSF-1550C-background (Obs 25)]</p> <p><i>Comments: Assuming pi Her as PSF, with 15.5 mu F: 18.99 Jy and 23.0 mu F: 7.34 Jy</i></p> <p><i>TA: My calculations give 8 frames to 150k and 10 to 200k. ETC gives frame count at 5 that is still OK.</i></p> <p><i>My calculations agree at 15.5 but differ at 23.</i></p> <p><i>Let's make sure we don't saturate for TA and use only 5 frames.</i></p> <p><i>TA in quadrant 4, others in 1 and 3.</i></p> <p><i>Group to 150k e: 375.83 and to 200k e: 501.10</i></p> <p><i>Background limit reached at 1296.82 groups!</i></p> <p><i>21 mas offset would require 67% reduction in groups to avoid saturation, i.e. 251.25</i></p> <p><i>Let's be more conservative. We don't need more than 50 points to fit a slope well!</i></p>																													
	<p>(Visit 24:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																													
Diagnostics																														
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>VEGA-PSF-MIRI-CORON</td> <td>RA: 18 21 32.6635 (275.3860979d) Dec: +49 07 17.73 (49.12159d) Equinox: J2000</td> <td>Proper Motion RA: -24.267 mas/yr Proper Motion Dec: 50.93 mas/yr Parallax: 0.0049088" Epoch of Position: 2000.0</td> <td></td> </tr> </tbody> </table> <p><i>Comments: Coordinate data from GAIAI EDR3</i></p> <p><i>Used as PSF for MIRI for both coron and non-coron imaging. Copied here for coronagraphy to avoid APT warnings.</i></p> <p><i>M2III type star</i></p> <p><i>Distance: 10.699 deg from Vega</i></p> <p><i>Kmag=0.57</i></p> <p><i>15.5 mu F: 10.59 Jy</i></p> <p><i>23.0 mu F: 4.88 Jy</i></p> <p><i>25.5 mu F: 3.99 Jy</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Coronagraphic, Point spread function]</i></p> <p><i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(6)	VEGA-PSF-MIRI-CORON	RA: 18 21 32.6635 (275.3860979d) Dec: +49 07 17.73 (49.12159d) Equinox: J2000	Proper Motion RA: -24.267 mas/yr Proper Motion Dec: 50.93 mas/yr Parallax: 0.0049088" Epoch of Position: 2000.0											
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(6)	VEGA-PSF-MIRI-CORON	RA: 18 21 32.6635 (275.3860979d) Dec: +49 07 17.73 (49.12159d) Equinox: J2000	Proper Motion RA: -24.267 mas/yr Proper Motion Dec: 50.93 mas/yr Parallax: 0.0049088" Epoch of Position: 2000.0																											
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	#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																				
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Template	<p>Repeat observation</p> <p>NO</p>																													
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Proposal 1193 - Observation 24 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dithers	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1550C	MASK1550	4QPM	F1550C	FASTR1	143	6	1	9	54	1861.595	87354.4
PSF References	PSF Reference: true												
Special Requirements	No Parallel Attachments Sequence Observations 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, Non-interruptible												

Proposal 1193 - Observation 25 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 25: VegaPSF-1550C-background Diagnostic Status: Warning Observing Template: MIRI Coronagraphic Imaging Background Observation For: [VegaPSF-2300C (Obs 22), VegaPSF-1550C (Obs 24)]																																						
	(Visit 25:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																						
Diagnosics																																							
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(7)</td> <td>VEGA-PSF-MIRI-CORON-BACK</td> <td> RA: 18 21 58.9484 (275.4956183d) Dec: +49 09 6.85 (49.15190d) Equinox: J2000 </td> <td> Proper Motion RA: 0 mas/yr Proper Motion Dec: 0 mas/yr Parallax: 0" Epoch of Position: 2022 </td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(7)	VEGA-PSF-MIRI-CORON-BACK	RA: 18 21 58.9484 (275.4956183d) Dec: +49 09 6.85 (49.15190d) Equinox: J2000	Proper Motion RA: 0 mas/yr Proper Motion Dec: 0 mas/yr Parallax: 0" Epoch of Position: 2022		<i>Comments: Background for Vega MIRI PSF</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Telescope/sky background]</i> <i>Extended=NO</i>																											
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																		
(7)	VEGA-PSF-MIRI-CORON-BACK	RA: 18 21 58.9484 (275.4956183d) Dec: +49 09 6.85 (49.15190d) Equinox: J2000	Proper Motion RA: 0 mas/yr Proper Motion Dec: 0 mas/yr Parallax: 0" Epoch of Position: 2022																																				
Acquisition	<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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1	NONE																																						
Template	<table border="1"> <thead> <tr> <th>AcqFilter</th> <th>Repeat observation</th> <th>Background Quadrant</th> </tr> </thead> <tbody> <tr> <td></td> <td>YES</td> <td>1</td> </tr> </tbody> </table>	AcqFilter	Repeat observation	Background Quadrant		YES	1																																
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1	BACKGROUND																																						
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Coron Mask/Filter</th> <th>Subarray</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>MASK1550</td> <td>4QPM</td> <td>F1550C</td> <td>FASTR1</td> <td>143</td> <td>6</td> <td>1</td> <td>2</td> <td>12</td> <td>413.688</td> <td></td> </tr> </tbody> </table>	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	4QPM/F1550C	MASK1550	4QPM	F1550C	FASTR1	143	6	1	2	12	413.688													
	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																										
1	4QPM/F1550C	MASK1550	4QPM	F1550C	FASTR1	143	6	1	2	12	413.688																												

Proposal 1193 - Observation 25 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

PSF References	Additional Justification: false
Special Requirements	No Parallel Attachments Sequence Observations 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, Non-interruptible

Proposal 1193 - Observation 26 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 26: Vega-2550W-Rot1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p>										
Diagnostics	<p>(Visit 26:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Vega-2550W-Rot1 (Obs 26)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(1)	VEGA	RA: 18 36 56.3363 (279.2347346d) Dec: +38 47 1.28 (38.78369d) Equinox: J2000			Proper Motion RA: 200.94 mas/yr Proper Motion Dec: 286.23 mas/yr Parallax: 0.13023" Epoch of Position: 2000					
	<p><i>Comments: Hipparcos new reduction - van Leeuwen 2007 (same as in Reyle+, 2021)</i></p> <p><i>A0Va type star</i> <i>Kmag=0.13</i></p> <p><i>15.5 mu F: 16.35 Jy</i> <i>23.0 mu F: 7.43 Jy</i> <i>25.5 mu F: 6.04 Jy</i> <i>Category=Star</i> <i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i> <i>Extended=NO</i></p>										
Template	<p>Subarray</p> <p>BRIGHTSKY</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				6	1	EXTENDED SOURCE	POSITIVE	DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F2550W	FASTR1	5	52	1	Dither 1	4	208	1076.408	87354.2

Proposal 1193 - Observation 26 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

Special Requirements

Sequence Observations 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, Non-interruptible
Aperture PA Offset 26 from 33 by 10 to 14 Degrees (Same offsets in V3)

Proposal 1193 - Observation 27 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 27: Vega-2300C-Rot1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observations:[Vega-2300C-background (Obs 28), Vega-1550C-Rot1 (Obs 29), Vega-1550C-background (Obs 30), Vega-1550C-Rot2 (Obs 31), Vega-2300C-Rot2 (Obs 32)]</p> <p><i>Comments: 15.5 mu F: 16.09 Jy; 23.0 mu F: 7.87 Jy</i></p> <p><i>TA: My calculations give 9 frames to 150k and 12 to 200k. ETC gives 33 frames as still ok. (??)</i> <i>Let's make sure we don't saturate for TA and use only 5 frames.</i> <i>TA in quadrant 1</i></p> <p><i>Coronagraphic Imaging:</i> <i>Group to 150k e: 44.54 and to 200k e: 59.38</i> <i>Background limit reached at 12.47 groups.</i> <i>Let's max out at 13 groups.</i></p>																													
Diagnostics	<p>(Visit 27:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Vega-2300C-Rot1 (Obs 27)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>																													
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>VEGA-COPY-MIRI-CORON</td> <td>RA: 18 36 56.3363 (279.2347346d) Dec: +38 47 1.28 (38.78369d) Equinox: J2000</td> <td>Proper Motion RA: 200.94 mas/yr Proper Motion Dec: 286.23 mas/yr Parallax: 0.13023" Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> <p><i>Comments: Copy of Vega, used for MIRI Coronagraphy, so we don't get APT warnings.</i></p> <p><i>Hipparcos new reduction - van Leeuwen 2007 (same as in Reyle+, 2021)</i></p> <p><i>A0Va type star</i> <i>Kmag=0.13</i></p> <p><i>15.5 mu F: 16.35 Jy</i> <i>23.0 mu F: 7.43 Jy</i> <i>25.5 mu F: 6.04 Jy</i> <i>Category=Star</i> <i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i> <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(2)	VEGA-COPY-MIRI-CORON	RA: 18 36 56.3363 (279.2347346d) Dec: +38 47 1.28 (38.78369d) Equinox: J2000	Proper Motion RA: 200.94 mas/yr Proper Motion Dec: 286.23 mas/yr Parallax: 0.13023" Epoch of Position: 2000											
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Template	<p>Repeat observation</p> <p>NO</p>																													
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#	Dither Type																													
1	NONE																													

Proposal 1193 - Observation 27 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dithers	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	LYOT/F2300C	MASKLYOT	LYOT	F2300C	FASTR1	60	49	1	1	49	968.112	87354.9
PSF References	VegaPSF-2300C (Obs 22) (PSF Reference; Filters [F2300C]) Additional Justification: false												
Special Requirements	No Parallel Attachments Sequence Observations 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, Non-interruptible Aperture PA Offset 27 from 32 by 10 to 14 Degrees (Same offsets in V3)												

Proposal 1193 - Observation 28 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 28: Vega-2300C-background</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observation For: [Vega-2300C-Rot1 (Obs 27), Vega-1550C-Rot1 (Obs 29), Vega-1550C-Rot2 (Obs 31), Vega-2300C-Rot2 (Obs 32)]</p>												
Diagnostics	(Visit 28:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(4)	VEGA-F2300C-BACK	RA: 18 37 25.5214 (279.3563392d) Dec: +38 41 43.57 (38.69544d) Equinox: J2000				Epoch of Position: 2022						
	<p><i>Comments: Background region for Lyot coronagraph for Vega in 2022</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Coronagraphic, Telescope/sky background]</i></p>												
Acquisition	#											Target	
	1											NONE	
Template	AcqFilter	Repeat observation						Background Quadrant					
		YES						1					
Dithers	#											Dither Type	
	1											BACKGROUND	
Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	LYOT/F2300C	MASKLYOT	LYOT	F2300C	FASTR1	60	49	1	2	98	1936.224	
PSF References	Additional Justification: false												

Proposal 1193 - Observation 28 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

Special Requirements

No Parallel Attachments

Sequence Observations 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, Non-interruptible

Proposal 1193 - Observation 29 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 29: Vega-1550C-Rot1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observations:[Vega-2300C-Rot1 (Obs 27), Vega-2300C-background (Obs 28), Vega-1550C-background (Obs 30), Vega-1550C-Rot2 (Obs 31), Vega-2300C-Rot2 (Obs 32)]</p> <p><i>Comments: 15.5 mu F: 16.09 Jy; 23.0 mu F: 7.87 Jy</i></p> <p><i>TA: My calculations give 8 frames to 150k and 10 to 200k. ETC gives frame count at 5 that is still OK. Let's make sure we don't saturate for TA and use only 5 frames. TA in quadrant in 1</i></p> <p><i>Coronagraphic Imaging:</i> <i>Group to 150k e: 350.73 and to 200k e: 467.64</i> <i>Background limit reached at 1296.82 groups!</i> <i>21 mas offset would require 67% reduction in groups to avoid saturation, i.e. 234.</i> <i>Let's be more conservative. We don't need more than 50 points to fit a slope well!</i> <i>Additionally, the inner disk may be brighter!</i></p>																													
	<p>(Visit 29:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Vega-1550C-Rot1 (Obs 29)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>																													
Diagnostics																														
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>VEGA-COPY-MIRI-CORON</td> <td>RA: 18 36 56.3363 (279.2347346d) Dec: +38 47 1.28 (38.78369d) Equinox: J2000</td> <td>Proper Motion RA: 200.94 mas/yr Proper Motion Dec: 286.23 mas/yr Parallax: 0.13023" Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> <p><i>Comments: Copy of Vega, used for MIRI Coronagraphy, so we don't get APT warnings.</i></p> <p><i>Hipparcos new reduction - van Leeuwen 2007 (same as in Reyle+, 2021)</i></p> <p><i>A0Va type star</i> <i>Kmag=0.13</i></p> <p><i>15.5 mu F: 16.35 Jy</i> <i>23.0 mu F: 7.43 Jy</i> <i>25.5 mu F: 6.04 Jy</i> <i>Category=Star</i> <i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i> <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(2)	VEGA-COPY-MIRI-CORON	RA: 18 36 56.3363 (279.2347346d) Dec: +38 47 1.28 (38.78369d) Equinox: J2000	Proper Motion RA: 200.94 mas/yr Proper Motion Dec: 286.23 mas/yr Parallax: 0.13023" Epoch of Position: 2000											
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																									
(2)	VEGA-COPY-MIRI-CORON	RA: 18 36 56.3363 (279.2347346d) Dec: +38 47 1.28 (38.78369d) Equinox: J2000	Proper Motion RA: 200.94 mas/yr Proper Motion Dec: 286.23 mas/yr Parallax: 0.13023" Epoch of Position: 2000																											
Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Filter</th> <th>Quadrant</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>FND</td> <td>1</td> <td>FAST</td> <td>4</td> <td>1</td> <td>1</td> <td>0.959</td> <td>87354.7</td> </tr> </tbody> </table>										#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	SAME	FND	1	FAST	4	1	1	0.959	87354.7
	#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																				
1	SAME	FND	1	FAST	4	1	1	0.959	87354.7																					
Template	<p>Repeat observation</p> <p>NO</p>																													
Dithers	<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																
	#	Dither Type																												
1	NONE																													

Proposal 1193 - Observation 29 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dithers	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1550C	MASK1550	4QPM	F1550C	FASTR1	90	42	1	1	42	915.817	87354.3
PSF References	VegaPSF-1550C (Obs 24) (PSF Reference; Filters [F1550C]) Additional Justification: false												
Special Requirements	No Parallel Attachments Sequence Observations 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, Non-interruptible Aperture PA Offset 29 from 31 by 10 to 14 Degrees (Same offsets in V3)												

Proposal 1193 - Observation 30 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 30: Vega-1550C-background</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observation For: [Vega-2300C-Rot1 (Obs 27), Vega-1550C-Rot1 (Obs 29), Vega-1550C-Rot2 (Obs 31), Vega-2300C-Rot2 (Obs 32)]</p>												
Diagnostics	(Visit 30:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(3)	VEGA-F1550C-BACK	RA: 18 37 25.5214 (279.3563392d) Dec: +38 41 43.57 (38.69544d) Equinox: J2000				Epoch of Position: 2022						
	<p><i>Comments: Background region, 24.5" from Vega at 2022</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Coronagraphic, Telescope/sky background]</i></p>												
Acquisition	#											Target	
	1											NONE	
Template	AcqFilter	Repeat observation				Background Quadrant							
		YES				1							
Dithers	#											Dither Type	
	1											BACKGROUND	
Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1550C	MASK1550	4QPM	F1550C	FASTR1	90	42	1	2	84	1831.635	
PSF References	Additional Justification: false												

Proposal 1193 - Observation 30 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

Special Requirements

No Parallel Attachments

Sequence Observations 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, Non-interruptible

Proposal 1193 - Observation 31 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 31: Vega-1550C-Rot2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observations:[Vega-2300C-Rot1 (Obs 27), Vega-2300C-background (Obs 28), Vega-1550C-Rot1 (Obs 29), Vega-1550C-background (Obs 30), Vega-2300C-Rot2 (Obs 32)]</p> <p><i>Comments: 15.5 mu F: 16.09 Jy; 23.0 mu F: 7.87 Jy</i></p> <p><i>TA: My calculations give 8 frames to 150k and 10 to 200k. ETC gives frame count at 5 that is still OK. Let's make sure we don't saturate for TA and use only 5 frames. TA in quadrant in 3</i></p> <p><i>Coronagraphic Imaging: Group to 150k e: 350.73 and to 200k e: 467.64 Background limit reached at 1296.82 groups! 21 mas offset would require 67% reduction in groups to avoid saturation, i.e. 234. Let's be more conservative. We don't need more than 50 points to fit a slope well! Additionally, the inner disk may be brighter!</i></p>																													
	<p>(Visit 31:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Vega-1550C-Rot2 (Obs 31)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>																													
Diagnosics																														
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>VEGA-COPY-MIRI-CORON</td> <td>RA: 18 36 56.3363 (279.2347346d) Dec: +38 47 1.28 (38.78369d) Equinox: J2000</td> <td>Proper Motion RA: 200.94 mas/yr Proper Motion Dec: 286.23 mas/yr Parallax: 0.13023" Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> <p><i>Comments: Copy of Vega, used for MIRI Coronagraphy, so we don't get APT warnings.</i></p> <p><i>Hipparcos new reduction - van Leeuwen 2007 (same as in Reyle+, 2021)</i></p> <p><i>A0Va type star Kmag=0.13</i></p> <p><i>15.5 mu F: 16.35 Jy 23.0 mu F: 7.43 Jy 25.5 mu F: 6.04 Jy Category=Star Description=[Circumstellar disks, Debris disks, Exoplanet Systems] Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(2)	VEGA-COPY-MIRI-CORON	RA: 18 36 56.3363 (279.2347346d) Dec: +38 47 1.28 (38.78369d) Equinox: J2000	Proper Motion RA: 200.94 mas/yr Proper Motion Dec: 286.23 mas/yr Parallax: 0.13023" Epoch of Position: 2000											
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																									
(2)	VEGA-COPY-MIRI-CORON	RA: 18 36 56.3363 (279.2347346d) Dec: +38 47 1.28 (38.78369d) Equinox: J2000	Proper Motion RA: 200.94 mas/yr Proper Motion Dec: 286.23 mas/yr Parallax: 0.13023" Epoch of Position: 2000																											
Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Filter</th> <th>Quadrant</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>FND</td> <td>3</td> <td>FAST</td> <td>4</td> <td>1</td> <td>1</td> <td>0.959</td> <td>87354.7</td> </tr> </tbody> </table>										#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	SAME	FND	3	FAST	4	1	1	0.959	87354.7
	#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																				
1	SAME	FND	3	FAST	4	1	1	0.959	87354.7																					
Template	<p>Repeat observation</p> <p>NO</p>																													
Dithers	<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																
	#	Dither Type																												
1	NONE																													

Proposal 1193 - Observation 31 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dithers	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1550C	MASK1550	4QPM	F1550C	FASTR1	90	42	1	1	42	915.817	87354.3
PSF References	VegaPSF-1550C (Obs 24) (PSF Reference; Filters [F1550C]) Additional Justification: false												
Special Requirements	No Parallel Attachments Sequence Observations 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, Non-interruptible Aperture PA Offset 29 from 31 by 10 to 14 Degrees (Same offsets in V3)												

Proposal 1193 - Observation 32 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 32: Vega-2300C-Rot2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observations:[Vega-2300C-Rot1 (Obs 27), Vega-2300C-background (Obs 28), Vega-1550C-Rot1 (Obs 29), Vega-1550C-background (Obs 30), Vega-1550C-Rot2 (Obs 31)]</p> <p><i>Comments: 15.5 mu F: 16.09 Jy; 23.0 mu F: 7.87 Jy</i></p> <p><i>TA: My calculations give 9 frames to 150k and 12 to 200k. ETC gives 33 frames as still ok. (??)</i> <i>Let's make sure we don't saturate for TA and use only 5 frames.</i> <i>TA in quadrant 3</i></p> <p><i>Coronagraphic Imaging:</i> <i>Group to 150k e: 44.54 and to 200k e: 59.38</i> <i>Background limit reached at 12.47 groups.</i> <i>Let's max out at 13 groups.</i></p>																													
Diagnostics	<p>(Visit 32:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Vega-2300C-Rot2 (Obs 32)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>																													
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>VEGA-COPY-MIRI-CORON</td> <td>RA: 18 36 56.3363 (279.2347346d) Dec: +38 47 1.28 (38.78369d) Equinox: J2000</td> <td>Proper Motion RA: 200.94 mas/yr Proper Motion Dec: 286.23 mas/yr Parallax: 0.13023" Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> <p><i>Comments: Copy of Vega, used for MIRI Coronagraphy, so we don't get APT warnings.</i></p> <p><i>Hipparcos new reduction - van Leeuwen 2007 (same as in Reyle+, 2021)</i></p> <p><i>A0Va type star</i> <i>Kmag=0.13</i></p> <p><i>15.5 mu F: 16.35 Jy</i> <i>23.0 mu F: 7.43 Jy</i> <i>25.5 mu F: 6.04 Jy</i> <i>Category=Star</i> <i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i> <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(2)	VEGA-COPY-MIRI-CORON	RA: 18 36 56.3363 (279.2347346d) Dec: +38 47 1.28 (38.78369d) Equinox: J2000	Proper Motion RA: 200.94 mas/yr Proper Motion Dec: 286.23 mas/yr Parallax: 0.13023" Epoch of Position: 2000											
#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																										
(2)	VEGA-COPY-MIRI-CORON	RA: 18 36 56.3363 (279.2347346d) Dec: +38 47 1.28 (38.78369d) Equinox: J2000	Proper Motion RA: 200.94 mas/yr Proper Motion Dec: 286.23 mas/yr Parallax: 0.13023" Epoch of Position: 2000																											
Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Filter</th> <th>Quadrant</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>FND</td> <td>3</td> <td>FAST</td> <td>4</td> <td>1</td> <td>1</td> <td>1.296</td> <td>87354.5</td> </tr> </tbody> </table>										#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	SAME	FND	3	FAST	4	1	1	1.296	87354.5
#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																					
1	SAME	FND	3	FAST	4	1	1	1.296	87354.5																					
Template	<p>Repeat observation</p> <p>NO</p>																													
Dithers	<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																
#	Dither Type																													
1	NONE																													

Proposal 1193 - Observation 32 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dithers	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	LYOT/F2300C	MASKLYOT	LYOT	F2300C	FASTR1	60	49	1	1	49	968.112	87354.9
PSF References	VegaPSF-2300C (Obs 22) (PSF Reference; Filters [F2300C]) Additional Justification: false												
Special Requirements	No Parallel Attachments Sequence Observations 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, Non-interruptible Aperture PA Offset 27 from 32 by 10 to 14 Degrees (Same offsets in V3)												

Proposal 1193 - Observation 33 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 33: Vega-2550W-Rot2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p> <p><i>Comments: Group to 150k e: 0.20 and to 200k e: 0.27</i></p> <p><i>Background limit reached at 3.08 groups!</i></p> <p><i>Min recommended groups: 5. Let's go with that. Target will saturate!</i></p>										
	<p>(Visit 33:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Vega-2550W-Rot2 (Obs 33)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>										
Diagnosics											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(1)	VEGA	RA: 18 36 56.3363 (279.2347346d) Dec: +38 47 1.28 (38.78369d) Equinox: J2000			Proper Motion RA: 200.94 mas/yr Proper Motion Dec: 286.23 mas/yr Parallax: 0.13023" Epoch of Position: 2000					
<p><i>Comments: Hipparcos new reduction - van Leeuwen 2007 (same as in Reyle+, 2021)</i></p> <p><i>A0Va type star</i></p> <p><i>Kmag=0.13</i></p> <p><i>15.5 mu F: 16.35 Jy</i></p> <p><i>23.0 mu F: 7.43 Jy</i></p> <p><i>25.5 mu F: 6.04 Jy</i></p> <p><i>Category=Star</i></p> <p><i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i></p> <p><i>Extended=NO</i></p>											
Template	Subarray										
	BRIGHTSKY										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				6	1	EXTENDED SOURCE	POSITIVE	DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F2550W	FASTR1	5	52	1	Dither 1	4	208	1076.408	87354.2

Proposal 1193 - Observation 33 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

Special Requirements

Sequence Observations 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, Non-interruptible
Aperture PA Offset 26 from 33 by 10 to 14 Degrees (Same offsets in V3)

Proposal 1193 - Observation 34 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 34: Vega - NIRCcam - Roll 1 - FULL - MA430R Diagnostic Status: Warning Observing Template: NIRCcam Coronagraphic Imaging																													
	(Vega - NIRCcam - Roll 1 - FULL - MA430R (Obs 34)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging. (Visit 34:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Vega - NIRCcam - Roll 1 - FULL - MA430R (Obs 34)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																													
Diagnosics	<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>VEGA</td> <td>RA: 18 36 56.3363 (279.2347346d) Dec: +38 47 1.28 (38.78369d) Equinox: J2000</td> <td>Proper Motion RA: 200.94 mas/yr Proper Motion Dec: 286.23 mas/yr Parallax: 0.13023" Epoch of Position: 2000</td> <td></td> </tr> <tr> <td colspan="5"> <i>Comments: Hipparcos new reduction - van Leeuwen 2007 (same as in Reyle+, 2021)</i> A0V_a type star K_{mag}=0.13 15.5 mu F: 16.35 Jy 23.0 mu F: 7.43 Jy 25.5 mu F: 6.04 Jy Category=Star Description=[Circumstellar disks, Debris disks, Exoplanet Systems] Extended=NO </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(1)	VEGA	RA: 18 36 56.3363 (279.2347346d) Dec: +38 47 1.28 (38.78369d) Equinox: J2000	Proper Motion RA: 200.94 mas/yr Proper Motion Dec: 286.23 mas/yr Parallax: 0.13023" Epoch of Position: 2000		<i>Comments: Hipparcos new reduction - van Leeuwen 2007 (same as in Reyle+, 2021)</i> A0V _a type star K _{mag} =0.13 15.5 mu F: 16.35 Jy 23.0 mu F: 7.43 Jy 25.5 mu F: 6.04 Jy Category=Star Description=[Circumstellar disks, Debris disks, Exoplanet Systems] Extended=NO									
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	#	Target	Filter	Target Brightness	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																				
1	SAME	F335M	BRIGHT (ND Square)	RAPID	3	1	1	0.203	40828.1																					
Acquisition	<table border="1"> <thead> <tr> <th>Module</th> <th>Coronagraphic Mask</th> <th>Obtain Astrometric Confirmation Images?</th> <th>Subarray</th> <th>Dither Pattern</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>MASK430R</td> <td>true</td> <td>FULL</td> <td>NONE</td> </tr> </tbody> </table>										Module	Coronagraphic Mask	Obtain Astrometric Confirmation Images?	Subarray	Dither Pattern	A	MASK430R	true	FULL	NONE										
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	#	Conf. Readout Pattern	Conf. Groups/Int	Conf. Integrations/Exp	Conf. Total Integrations	Conf. Total Exposure Time	Conf. Total Dithers																							
1	BRIGHT2	3	2	2	139.578	1																								
Confirmation																														

Proposal 1193 - Observation 34 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F210M	F444W	RAPID	3	25	1	25	1062.94	40828.3
PSF References	Vega Ref star - NIRCcam - Roll 2 - FULL - MA430R (Obs 39) (PSF Reference; Filters [F210M/F444W]) Additional Justification: false									
Special Requirements	Aperture PA Range 130 to 134 Degrees (V3 129.79569175 to 133.79569175) Offset 0.017 arcsec, -0.015 arcsec Sequence Observations 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, Non-interruptible Aperture PA Offset 34 from 37 by 10 to 10 Degrees (Same offsets in V3) Same Aperture PA 34, 35									

Proposal 1193 - Observation 35 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 35: Vega - NIRCcam - Roll 1 - SUB320 - MA430R</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p>									
	<p>(Vega - NIRCcam - Roll 1 - SUB320 - MA430R (Obs 35)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging.</p> <p>(Visit 35:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Vega - NIRCcam - Roll 1 - SUB320 - MA430R (Obs 35)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(1)	VEGA	RA: 18 36 56.3363 (279.2347346d) Dec: +38 47 1.28 (38.78369d) Equinox: J2000		Proper Motion RA: 200.94 mas/yr Proper Motion Dec: 286.23 mas/yr Parallax: 0.13023" Epoch of Position: 2000					
<p><i>Comments: Hipparcos new reduction - van Leeuwen 2007 (same as in Reyle+, 2021)</i></p> <p><i>A0Va type star</i> <i>Kmag=0.13</i></p> <p><i>15.5 mu F: 16.35 Jy</i> <i>23.0 mu F: 7.43 Jy</i> <i>25.5 mu F: 6.04 Jy</i> <i>Category=Star</i> <i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i> <i>Extended=NO</i></p>										
Acquisition	#	Target	Filter	Target Brightness	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	F335M	BRIGHT (ND Square)	RAPID	3	1	1	0.203	40828.5
Template	Module		Coronagraphic Mask		Obtain Astrometric Confirmation Images?		Subarray		Dither Pattern	
	A		MASK430R		false		SUB320A430R		NONE	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F210M	F444W	RAPID	8	150	1	150	1446.276	40828.7

Proposal 1193 - Observation 35 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

PSF References	Vega Ref star - NIRCam - Roll 2 - SUB320 - MA430R (Obs 38) (PSF Reference; Filters [F210M/F444W]) Additional Justification: false
Special Requirements	Aperture PA Range 130 to 134 Degrees (V3 129.79569175 to 133.79569175) Offset 0.017 arcsec, -0.015 arcsec Sequence Observations 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, Non-interruptible Aperture PA Offset 35 from 36 by 10 to 10 Degrees (Same offsets in V3) Same Aperture PA 34, 35

Proposal 1193 - Observation 36 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 36: Vega - NIRCcam - Roll 2 - SUB320 - M430R Diagnostic Status: Warning Observing Template: NIRCcam Coronagraphic Imaging																													
	(Vega - NIRCcam - Roll 2 - SUB320 - M430R (Obs 36)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging. (Visit 36:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Vega - NIRCcam - Roll 2 - SUB320 - M430R (Obs 36)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																													
Diagnosics																														
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>VEGA</td> <td>RA: 18 36 56.3363 (279.2347346d) Dec: +38 47 1.28 (38.78369d) Equinox: J2000</td> <td>Proper Motion RA: 200.94 mas/yr Proper Motion Dec: 286.23 mas/yr Parallax: 0.13023" Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(1)	VEGA	RA: 18 36 56.3363 (279.2347346d) Dec: +38 47 1.28 (38.78369d) Equinox: J2000	Proper Motion RA: 200.94 mas/yr Proper Motion Dec: 286.23 mas/yr Parallax: 0.13023" Epoch of Position: 2000		<p><i>Comments: Hipparcos new reduction - van Leeuwen 2007 (same as in Reyle+, 2021)</i></p> <p><i>A0Va type star</i> <i>Kmag=0.13</i></p> <p><i>15.5 mu F: 16.35 Jy</i> <i>23.0 mu F: 7.43 Jy</i> <i>25.5 mu F: 6.04 Jy</i> <i>Category=Star</i> <i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i> <i>Extended=NO</i></p>																		
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	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																				
1	F210M	F444W	RAPID	8	150	1	150	1446.276	40828.7																					

Proposal 1193 - Observation 36 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

PSF References	Vega Ref star - NIRCam - Roll 2 - SUB320 - MA430R (Obs 38) (PSF Reference; Filters [F210M/F444W]) Additional Justification: false
Special Requirements	Offset 0.017 arcsec, -0.015 arcsec Sequence Observations 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, Non-interruptible Aperture PA Offset 35 from 36 by 10 to 10 Degrees (Same offsets in V3) Same Aperture PA 36, 37

Proposal 1193 - Observation 37 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 37: Vega - NIRCcam - Roll 2 - FULL - M430R</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p>																													
	<p>(Vega - NIRCcam - Roll 2 - FULL - M430R (Obs 37)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging.</p> <p>(Visit 37:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Vega - NIRCcam - Roll 2 - FULL - M430R (Obs 37)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>																													
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(1)	VEGA	RA: 18 36 56.3363 (279.2347346d) Dec: +38 47 1.28 (38.78369d) Equinox: J2000	Proper Motion RA: 200.94 mas/yr Proper Motion Dec: 286.23 mas/yr Parallax: 0.13023" Epoch of Position: 2000																											
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	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																				
1	F210M	F444W	RAPID	3	25	1	25	1062.94	40828.3																					

Proposal 1193 - Observation 37 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

PSF References	Vega Ref star - NIRCcam - Roll 2 - FULL - MA430R (Obs 39) (PSF Reference; Filters [F210M/F444W]) Additional Justification: false
Special Requirements	Offset 0.017 arcsec, -0.015 arcsec Sequence Observations 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, Non-interruptible Aperture PA Offset 34 from 37 by 10 to 10 Degrees (Same offsets in V3) Same Aperture PA 36, 37

Proposal 1193 - Observation 38 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 38: Vega Ref star - NIRCcam - Roll 2 - SUB320 - MA430R Diagnostic Status: Warning Observing Template: NIRCcam Coronagraphic Imaging																													
	(Vega Ref star - NIRCcam - Roll 2 - SUB320 - MA430R (Obs 38)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging. (Visit 38:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																													
Diagnosics																														
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(8)</td> <td>VEGA-PSF-NIRCAM</td> <td>RA: 20 41 25.9151 (310.3579796d) Dec: +45 16 49.22 (45.28034d) Equinox: J2000</td> <td>Proper Motion RA: 2.01 mas/yr Proper Motion Dec: 1.85 mas/yr Parallax: 0.00231" Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(8)	VEGA-PSF-NIRCAM	RA: 20 41 25.9151 (310.3579796d) Dec: +45 16 49.22 (45.28034d) Equinox: J2000	Proper Motion RA: 2.01 mas/yr Proper Motion Dec: 1.85 mas/yr Parallax: 0.00231" Epoch of Position: 2000		Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Teff ~ 8525 K A2Ia type star Distance: 23.8 deg from Vega. Kmag=0.88 Category=Calibration Description=[Coronagraphic] Extended=NO																		
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																									
(8)	VEGA-PSF-NIRCAM	RA: 20 41 25.9151 (310.3579796d) Dec: +45 16 49.22 (45.28034d) Equinox: J2000	Proper Motion RA: 2.01 mas/yr Proper Motion Dec: 1.85 mas/yr Parallax: 0.00231" Epoch of Position: 2000																											
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1	SAME	F335M	BRIGHT (ND Square)	RAPID	9	1	1	0.504	40828.8																					
Template	<table border="1"> <thead> <tr> <th>Module</th> <th>Coronagraphic Mask</th> <th>Obtain Astrometric Confirmation Images?</th> <th>Subarray</th> <th>Dither Pattern</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>MASK430R</td> <td>false</td> <td>SUB320A430R</td> <td>5-POINT-BOX</td> </tr> </tbody> </table>	Module	Coronagraphic Mask	Obtain Astrometric Confirmation Images?	Subarray	Dither Pattern	A	MASK430R	false	SUB320A430R	5-POINT-BOX																			
	Module	Coronagraphic Mask	Obtain Astrometric Confirmation Images?	Subarray	Dither Pattern																									
A	MASK430R	false	SUB320A430R	5-POINT-BOX																										
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Short Filter</th> <th>Long 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>F210M</td> <td>F444W</td> <td>RAPID</td> <td>8</td> <td>100</td> <td>5</td> <td>500</td> <td>4820.92</td> <td>40828.10</td> </tr> </tbody> </table>	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	F210M	F444W	RAPID	8	100	5	500	4820.92	40828.10									
	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																				
1	F210M	F444W	RAPID	8	100	5	500	4820.92	40828.10																					

Proposal 1193 - Observation 38 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

PSF References	PSF Reference: true
Special Requirements	Offset 0.017 arcsec, -0.015 arcsec Sequence Observations 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, Non-interruptible

Proposal 1193 - Observation 39 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 39: Vega Ref star - NIRCcam - Roll 2 - FULL - MA430R</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p>									
	<p>(Vega Ref star - NIRCcam - Roll 2 - FULL - MA430R (Obs 39)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging.</p> <p>(Visit 39:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(8)	VEGA-PSF-NIRCAM	RA: 20 41 25.9151 (310.3579796d) Dec: +45 16 49.22 (45.28034d) Equinox: J2000		Proper Motion RA: 2.01 mas/yr Proper Motion Dec: 1.85 mas/yr Parallax: 0.00231" Epoch of Position: 2000					
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Teff ~ 8525 K</i> <i>A2Ia type star</i> <i>Distance: 23.8 deg from Vega.</i> <i>Kmag=0.88</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic]</i> <i>Extended=NO</i></p>										
Acquisition	#	Target	Filter	Target Brightness	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	F335M	BRIGHT (ND Square)	RAPID	9	1	1	0.504	40828.11
Template	Module		Coronagraphic Mask		Obtain Astrometric Confirmation Images?		Subarray		Dither Pattern	
	A		MASK430R		false		FULL		5-POINT-BOX	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F210M	F444W	RAPID	3	8	5	40	1664.199	40828.13

Proposal 1193 - Observation 39 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

PSF References	PSF Reference: true
Special Requirements	Offset 0.017 arcsec, -0.015 arcsec Sequence Observations 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, Non-interruptible

Proposal 1193 - Observation 40 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 40: Del-Eri-1500W-background Diagnostic Status: Warning Observing Template: MIRI Imaging <i>Comments: Visits 40-56 will be executed as a non-interruptible sequence. This SR was removed to help scheduling.</i>										
	(Visit 40:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Diagnostics											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous			
	(24)	DEL-ERI-MIRI-BACK-NEW	RA: 03 43 17.8552 (55.8243967d) Dec: -09 42 9.00 (-9.70250d) Equinox: J2000			Epoch of Position: 2024					
<i>Comments: Checked and verified clean region in Spitzer 24 mu images, near del Eri, taking into account del Eri's PM.</i> Category=Calibration Description=[Telescope/sky background]											
Template	Subarray										
	SUB256										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				1	1	EXTENDED SOURCE	POSITIVE	DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F1500W	FASTR1	5	150	1	Dither 1	4	600	1077.074	

Proposal 1193 - Observation 41 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 41: Del-Eri-F2100W-F2550W-background</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p> <p><i>Comments: Group to 150k e: 3.68 and to 200k e: 4.91</i></p> <p><i>Background limit reached at 3.08 groups!</i></p>										
Diagnostics	(Visit 41:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous			
	(24)	DEL-ERI-MIRI-BACK-NEW	RA: 03 43 17.8552 (55.8243967d)			Epoch of Position: 2024					
			Dec: -09 42 9.00 (-9.70250d)								
			Equinox: J2000								
			<i>Comments: Checked and verified clean region in Spitzer 24 mu images, near del Eri, taking into account del Eri's PM.</i>								
			Category=Calibration								
			Description=[Telescope/sky background]								
Template	<p>Subarray</p> <p>BRIGHTSKY</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				6	1	EXTENDED SOURCE	POSITIVE	DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F1800W	FASTR1	5	48	1	Dither 1	4	192	993.341	
	2	F2100W	FASTR1	5	48	1	Dither 1	4	192	993.341	
	3	F2550W	FASTR1	5	52	1	Dither 1	4	208	1076.408	88182.1

Proposal 1193 - Observation 42 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 42: Eps-EriPSF-2550W-2100W</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p> <p><i>Comments: Group to 150k e: 3.68 and to 200k e: 4.91</i></p> <p><i>Background limit reached at 3.08 groups!</i></p>										
	<p>(Visit 42:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>										
Diagnostics											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(12)	EPS-ERI-PSF-ALL	RA: 03 43 14.9005 (55.8120854d) Dec: -09 45 48.21 (-9.76339d) Equinox: J2000			Proper Motion RA: -93.634 mas/yr Proper Motion Dec: 744.360 mas/yr Parallax: 0.1100254" Epoch of Position: 2000.0					
<p><i>Comments: Data from (Reyle 2021)</i></p> <p><i>Teff ~ 5055 K</i></p> <p><i>K0+IV type star</i></p> <p><i>Distance: 2.56 deg from eps Eri.</i></p> <p><i>Kmag=1.43</i></p> <p><i>15.5 mu F: 4.62 Jy</i></p> <p><i>23.0 mu F: 2.14 Jy</i></p> <p><i>25.5 mu F: 1.74 Jy</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Coronagraphic]</i></p> <p><i>Extended=NO</i></p>											
Template	Subarray										
	BRIGHTSKY										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				6	1	EXTENDED SOURCE	POSITIVE	DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F2550W	FASTR1	5	52	1	Dither 1	4	208	1076.408	88182.1
	2	F2100W	FASTR1	5	48	1	Dither 1	4	192	993.341	
	3	F1800W	FASTR1	5	48	1	Dither 1	4	192	993.341	

Proposal 1193 - Observation 43 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 43: Eps-EriPSF-1500W</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p> <p><i>Comments: Assuming pi Eri as PSF, with F15.5mu: 14.71 Jy and F23.0mu: 6.77 Jy</i></p> <p><i>TA: My calculations give 8 frames to 150k and 11 to 200k. ETC gives 9 as still OK. Agreed. Let's make sure we don't saturate for TA and use only 5 frames. TA in quadrant 4, others in 1 and 3</i></p> <p><i>Coronagraphic Imaging:</i> <i>Group to 150k e: 482.25 and to 200k e: 643.00</i> <i>21 mas offset would require 67% reduction in groups to avoid saturation, i.e. ~ 322.94</i> <i>Background limit reached at 1296.82 groups!</i> <i>Let's be more conservative. We don't need more than 50 points to fit a slope well!</i></p>																													
	<p>(Visit 43:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																													
Diagnostics																														
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(12)</td> <td>EPS-ERI-PSF-ALL</td> <td>RA: 03 43 14.9005 (55.8120854d) Dec: -09 45 48.21 (-9.76339d) Equinox: J2000</td> <td>Proper Motion RA: -93.634 mas/yr Proper Motion Dec: 744.360 mas/yr Parallax: 0.1100254" Epoch of Position: 2000.0</td> <td></td> </tr> </tbody> </table> <p><i>Comments: Data from (Reyle 2021)</i></p> <p><i>Teff ~ 5055 K</i> <i>K0+IV type star</i> <i>Distance: 2.56 deg from eps Eri.</i> <i>Kmag=1.43</i></p> <p><i>15.5 mu F: 4.62 Jy</i> <i>23.0 mu F: 2.14 Jy</i> <i>25.5 mu F: 1.74 Jy</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic]</i> <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(12)	EPS-ERI-PSF-ALL	RA: 03 43 14.9005 (55.8120854d) Dec: -09 45 48.21 (-9.76339d) Equinox: J2000	Proper Motion RA: -93.634 mas/yr Proper Motion Dec: 744.360 mas/yr Parallax: 0.1100254" Epoch of Position: 2000.0											
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																									
(12)	EPS-ERI-PSF-ALL	RA: 03 43 14.9005 (55.8120854d) Dec: -09 45 48.21 (-9.76339d) Equinox: J2000	Proper Motion RA: -93.634 mas/yr Proper Motion Dec: 744.360 mas/yr Parallax: 0.1100254" Epoch of Position: 2000.0																											
Template	<p>Subarray</p> <p>SUB256</p>																													
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Starting Point</th> <th>Number of Points</th> <th>Points</th> <th>Starting Set</th> <th>Number of Sets</th> <th>Optimized For</th> <th>Direction</th> <th>Pattern Size</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4-Point-Sets</td> <td></td> <td></td> <td></td> <td>1</td> <td>1</td> <td>EXTENDED SOURCE</td> <td>POSITIVE</td> <td>DEFAULT</td> </tr> </tbody> </table>										#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	1	4-Point-Sets				1	1	EXTENDED SOURCE	POSITIVE	DEFAULT
	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size																				
1	4-Point-Sets				1	1	EXTENDED SOURCE	POSITIVE	DEFAULT																					

Proposal 1193 - Observation 43 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
		1	F1500W	FASTR1	5	150	1	Dither 1	4	600	1077.074

Proposal 1193 - Observation 44 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 44: Eps-Eri-1500W-background Diagnostic Status: Warning Observing Template: MIRI Imaging										
	(Visit 44:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous			
	(23)	EPS-ERI-MIRI-BACK-NEW	RA: 03 33 5.9779 (53.2749079d)	Dec: -09 24 15.69 (-9.40436d)		Equinox: J2000		Epoch of Position: 2024			
<i>Comments: Checked and verified clean region in MIPS 24 mu images near eps Eri, taking into account eps Eri's PM.</i> Category=Calibration Description=[Telescope/sky background]											
Template	Subarray										
	SUB256										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				1	1	EXTENDED SOURCE	POSITIVE	DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F1500W	FASTR1	5	150	1	Dither 1	4	600	1077.074	

Proposal 1193 - Observation 45 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 45: Eps-Eri-F2100W-F2550W-background</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p> <p><i>Comments: Group to 150k e: 3.68 and to 200k e: 4.91</i></p> <p><i>Background limit reached at 3.08 groups!</i></p>										
Diagnostics	(Visit 45:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous			
	(23)	EPS-ERI-MIRI-BACK-NEW	RA: 03 33 5.9779 (53.2749079d)			Epoch of Position: 2024					
			Dec: -09 24 15.69 (-9.40436d)								
			Equinox: J2000								
			<i>Comments: Checked and verified clean region in MIPS 24 mu images near eps Eri, taking into account eps Eri's PM.</i>								
			<i>Category=Calibration</i>								
			<i>Description=[Telescope/sky background]</i>								
Template	<p>Subarray</p> <p>BRIGHTSKY</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				6	1	EXTENDED SOURCE	POSITIVE	DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F1800W	FASTR1	5	48	1	Dither 1	4	192	993.341	
	2	F2100W	FASTR1	5	48	1	Dither 1	4	192	993.341	
	3	F2550W	FASTR1	5	52	1	Dither 1	4	208	1076.408	88182.1

Proposal 1193 - Observation 46 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 46: Eps-Eri-2550W-F2100W-Rot1 Diagnostic Status: Warning Observing Template: MIRI Imaging <i>Comments: Group to 150k e: 0.82 and to 200k e: 1.10</i> <i>Background limit reached at 3.08 groups!</i> <i>Aperture PA offset 49 from 46 by 10 degrees is applied manually.</i>																																																					
	(Visit 46:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																					
Diagnosics																																																						
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(9)</td> <td>EPS-ERI</td> <td>RA: 03 32 55.8444 (53.2326850d) Dec: -09 27 29.74 (-9.45826d) Equinox: J2000</td> <td>Proper Motion RA: -974.758 mas/yr Proper Motion Dec: 20.876 mas/yr Parallax: 0.3105773" Epoch of Position: 2000.0</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(9)	EPS-ERI	RA: 03 32 55.8444 (53.2326850d) Dec: -09 27 29.74 (-9.45826d) Equinox: J2000	Proper Motion RA: -974.758 mas/yr Proper Motion Dec: 20.876 mas/yr Parallax: 0.3105773" Epoch of Position: 2000.0		<i>Comments: Object from Reyle (2021) - 10 parsec sample in the GAIA era</i> <i>F1550mu: 3.93 Jy</i> <i>F2300mu: 1.81 Jy</i> <i>F2550mu: 1.47 Jy</i> <i>K2V type star</i> <i>Kmag=1.67</i> <i>Category=Star</i> <i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i> <i>Extended=NO</i>																																										
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																																	
(9)	EPS-ERI	RA: 03 32 55.8444 (53.2326850d) Dec: -09 27 29.74 (-9.45826d) Equinox: J2000	Proper Motion RA: -974.758 mas/yr Proper Motion Dec: 20.876 mas/yr Parallax: 0.3105773" Epoch of Position: 2000.0																																																			
Template	Subarray BRIGHTSKY																																																					
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Starting Point</th> <th>Number of Points</th> <th>Points</th> <th>Starting Set</th> <th>Number of Sets</th> <th>Optimized For</th> <th>Direction</th> <th>Pattern Size</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4-Point-Sets</td> <td></td> <td></td> <td></td> <td>6</td> <td>1</td> <td>EXTENDED SOURCE</td> <td>POSITIVE</td> <td>DEFAULT</td> </tr> </tbody> </table>	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	1	4-Point-Sets				6	1	EXTENDED SOURCE	POSITIVE	DEFAULT																																	
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Spectral Elements	<table border="1"> <thead> <tr> <th>#</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>F2550W</td> <td>FASTR1</td> <td>5</td> <td>52</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>208</td> <td>1076.408</td> <td>88182.2</td> </tr> <tr> <td>2</td> <td>F2100W</td> <td>FASTR1</td> <td>5</td> <td>48</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>192</td> <td>993.341</td> <td></td> </tr> <tr> <td>3</td> <td>F1800W</td> <td>FASTR1</td> <td>5</td> <td>48</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>192</td> <td>993.341</td> <td></td> </tr> </tbody> </table>	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	F2550W	FASTR1	5	52	1	Dither 1	4	208	1076.408	88182.2	2	F2100W	FASTR1	5	48	1	Dither 1	4	192	993.341		3	F1800W	FASTR1	5	48	1	Dither 1	4	192	993.341										
	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																																											
	1	F2550W	FASTR1	5	52	1	Dither 1	4	208	1076.408	88182.2																																											
	2	F2100W	FASTR1	5	48	1	Dither 1	4	192	993.341																																												
3	F1800W	FASTR1	5	48	1	Dither 1	4	192	993.341																																													

Proposal 1193 - Observation 47 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 47: Eps-Eri-1500W-Rot1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p> <p>Comments: F15.5mu: 3.86 Jy and F23.0mu: 1.77 Jy</p> <p>TA: My calculations give 32 frames to 150k and 43 to 200k. ETC gives 33 frames as still OK. Agreed. Let's make sure we don't saturate for TA and use only 15 frames. TA in quadrant 1</p> <p>Coronagraphic Imaging: Group to 150k e: 456.54 and to 200k e: 608.72 Background limit reached at 1296.82 groups! 21 mas offset would require 67% reduction in groups to avoid saturation, i.e. ~ 305 Let's be more conservative. We don't need more than 50 points to fit a slope well!</p> <p>Aperture PA offset 48 from 47 by 10 degrees is applied manually.</p>									
	<p>(Visit 47:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(9)	EPS-ERI	RA: 03 32 55.8444 (53.2326850d) Dec: -09 27 29.74 (-9.45826d) Equinox: J2000			Proper Motion RA: -974.758 mas/yr Proper Motion Dec: 20.876 mas/yr Parallax: 0.3105773" Epoch of Position: 2000.0				
<p>Comments: Object from Reyle (2021) - 10 parsec sample in the GAIA era</p> <p>F1550mu: 3.93 Jy F2300mu: 1.81 Jy F2550mu: 1.47 Jy</p> <p>K2V type star Kmag=1.67 Category=Star Description=[Circumstellar disks, Debris disks, Exoplanet Systems] Extended=NO</p>										
Template	Subarray									
	SUB256									
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size
	1	4-Point-Sets				1	1	EXTENDED SOURCE	POSITIVE	DEFAULT

Proposal 1193 - Observation 47 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
		1	F1500W	FASTR1	5	150	1	Dither 1	4	600	1077.074

Proposal 1193 - Observation 48 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 48: Eps-Eri-1500W-Rot2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p> <p>Comments: F15.5mu: 3.86 Jy and F23.0mu: 1.77 Jy</p> <p>TA: My calculations give 32 frames to 150k and 43 to 200k. ETC gives 33 frames as still OK. Agreed. Let's make sure we don't saturate for TA and use only 15 frames. TA in quadrant 3</p> <p>Coronagraphic Imaging: Group to 150k e: 456.54 and to 200k e: 608.72 Background limit reached at 1296.82 groups! 21 mas offset would require 67% reduction in groups to avoid saturation, i.e. ~ 305 Let's be more conservative. We don't need more than 50 points to fit a slope well!</p> <p>Aperture PA offset 48 from 47 by 10 degrees is applied manually.</p>									
	<p>(Visit 48:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
Diagnostics										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(9)	EPS-ERI	RA: 03 32 55.8444 (53.2326850d) Dec: -09 27 29.74 (-9.45826d) Equinox: J2000			Proper Motion RA: -974.758 mas/yr Proper Motion Dec: 20.876 mas/yr Parallax: 0.3105773" Epoch of Position: 2000.0				
<p>Comments: Object from Reyle (2021) - 10 parsec sample in the GAIA era</p> <p>F1550mu: 3.93 Jy F2300mu: 1.81 Jy F2550mu: 1.47 Jy</p> <p>K2V type star Kmag=1.67 Category=Star Description=[Circumstellar disks, Debris disks, Exoplanet Systems] Extended=NO</p>										
Template	Subarray									
	SUB256									
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size
	1	4-Point-Sets				1	1	EXTENDED SOURCE	POSITIVE	DEFAULT

Proposal 1193 - Observation 48 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
		1	F1500W	FASTR1	5	150	1	Dither 1	4	600	1077.074

Proposal 1193 - Observation 49 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 49: Eps-Eri-2550W-2100W-Rot2 Diagnostic Status: Warning Observing Template: MIRI Imaging <i>Comments: Group to 150k e: 0.82 and to 200k e: 1.10</i> <i>Background limit reached at 3.08 groups!</i> <i>Aperture PA offset 49 from 46 by 10 degrees is applied manually.</i>																																																					
	(Visit 49:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																					
Diagnosics																																																						
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(9)</td> <td>EPS-ERI</td> <td>RA: 03 32 55.8444 (53.2326850d) Dec: -09 27 29.74 (-9.45826d) Equinox: J2000</td> <td>Proper Motion RA: -974.758 mas/yr Proper Motion Dec: 20.876 mas/yr Parallax: 0.3105773" Epoch of Position: 2000.0</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(9)	EPS-ERI	RA: 03 32 55.8444 (53.2326850d) Dec: -09 27 29.74 (-9.45826d) Equinox: J2000	Proper Motion RA: -974.758 mas/yr Proper Motion Dec: 20.876 mas/yr Parallax: 0.3105773" Epoch of Position: 2000.0		<i>Comments: Object from Reyle (2021) - 10 parsec sample in the GAIA era</i> <i>F1550mu: 3.93 Jy</i> <i>F2300mu: 1.81 Jy</i> <i>F2550mu: 1.47 Jy</i> <i>K2V type star</i> <i>Kmag=1.67</i> <i>Category=Star</i> <i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i> <i>Extended=NO</i>																																										
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Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Starting Point</th> <th>Number of Points</th> <th>Points</th> <th>Starting Set</th> <th>Number of Sets</th> <th>Optimized For</th> <th>Direction</th> <th>Pattern Size</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4-Point-Sets</td> <td></td> <td></td> <td></td> <td>6</td> <td>1</td> <td>EXTENDED SOURCE</td> <td>POSITIVE</td> <td>DEFAULT</td> </tr> </tbody> </table>	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	1	4-Point-Sets				6	1	EXTENDED SOURCE	POSITIVE	DEFAULT																																	
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	2	F2100W	FASTR1	5	48	1	Dither 1	4	192	993.341																																												
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Proposal 1193 - Observation 50 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 50: Eps Eri Visit 1- NIRCcam - Roll 1 - FULL - M335R</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p> <p><i>Comments: Aperture PA offset 54 from 50 by 10 degrees is applied manually.</i></p> <p><i>Aperture PA offset 61 from 50 by 180 degrees is applied manually.</i></p> <p><i>Same Aperture PA for 50,51 is applied manually.</i></p>																													
	<p>(Eps Eri Visit 1- NIRCcam - Roll 1 - FULL - M335R (Obs 50)) Warning (Form): PSF Reference observations should be SEQ NON-INT.</p> <p>(Eps Eri Visit 1- NIRCcam - Roll 1 - FULL - M335R (Obs 50)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Eps Eri Visit 1- NIRCcam - Roll 1 - FULL - M335R (Obs 50)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging.</p> <p>(Visit 50:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																													
Diagnosics																														
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Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Filter</th> <th>Target Brightness</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>F335M</td> <td>BRIGHT (ND Square)</td> <td>BRIGHT2</td> <td>9</td> <td>1</td> <td>1</td> <td>0.956</td> <td>40830.1</td> </tr> </tbody> </table>	#	Target	Filter	Target Brightness	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	SAME	F335M	BRIGHT (ND Square)	BRIGHT2	9	1	1	0.956	40830.1									
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	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																				
1	F210M	F444W	RAPID	3	40	1	40	1707.146	40830.3																					

Proposal 1193 - Observation 50 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

PSF References	Eps Eri Ref star Visit 1- NIRCam - Roll 3 - FULL - M335R (Obs 56) (PSF Reference; Filters [F210M/F444W]) Additional Justification: false
Special Requirements	Offset -0.01 arcsec, 0.006 arcsec

Proposal 1193 - Observation 51 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 51: Eps Eri Visit 1- NIRCcam - Roll 1 - SUB320 - M335R																													
	Diagnostic Status: Warning Observing Template: NIRCcam Coronagraphic Imaging <i>Comments: Aperture PA offset 52 from 51 by 5 degrees is applied manually.</i> <i>Same Aperture PA for 50,51 is applied manually.</i>																													
Diagnostics	(Eps Eri Visit 1- NIRCcam - Roll 1 - SUB320 - M335R (Obs 51)) Warning (Form): PSF Reference observations should be SEQ NON-INT. (Eps Eri Visit 1- NIRCcam - Roll 1 - SUB320 - M335R (Obs 51)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees (Eps Eri Visit 1- NIRCcam - Roll 1 - SUB320 - M335R (Obs 51)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging. (Visit 51:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																													
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(9)</td> <td>EPS-ERI</td> <td>RA: 03 32 55.8444 (53.2326850d) Dec: -09 27 29.74 (-9.45826d) Equinox: J2000</td> <td>Proper Motion RA: -974.758 mas/yr Proper Motion Dec: 20.876 mas/yr Parallax: 0.3105773" Epoch of Position: 2000.0</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(9)	EPS-ERI	RA: 03 32 55.8444 (53.2326850d) Dec: -09 27 29.74 (-9.45826d) Equinox: J2000	Proper Motion RA: -974.758 mas/yr Proper Motion Dec: 20.876 mas/yr Parallax: 0.3105773" Epoch of Position: 2000.0		<i>Comments: Object from Reyle (2021) - 10 parsec sample in the GAIA era</i> <i>F1550mu: 3.93 Jy</i> <i>F2300mu: 1.81 Jy</i> <i>F2550mu: 1.47 Jy</i> <i>K2V type star</i> <i>Kmag=1.67</i> <i>Category=Star</i> <i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i> <i>Extended=NO</i>																		
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(9)	EPS-ERI	RA: 03 32 55.8444 (53.2326850d) Dec: -09 27 29.74 (-9.45826d) Equinox: J2000	Proper Motion RA: -974.758 mas/yr Proper Motion Dec: 20.876 mas/yr Parallax: 0.3105773" Epoch of Position: 2000.0																											
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	#	Target	Filter	Target Brightness	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																				
1	SAME	F335M	BRIGHT (ND Square)	BRIGHT2	9	1	1	0.956	40830.5																					
Template	<table border="1"> <thead> <tr> <th>Module</th> <th>Coronagraphic Mask</th> <th>Obtain Astrometric Confirmation Images?</th> <th>Subarray</th> <th>Dither Pattern</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>MASK335R</td> <td>true</td> <td>SUB320A335R</td> <td>NONE</td> </tr> </tbody> </table>	Module	Coronagraphic Mask	Obtain Astrometric Confirmation Images?	Subarray	Dither Pattern	A	MASK335R	true	SUB320A335R	NONE																			
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Confirmation	<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>Conf. Total Dithers</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>RAPID</td> <td>5</td> <td>1</td> <td>1</td> <td>53.684</td> <td>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	5	1	1	53.684	1															
	#	Conf. Readout Pattern	Conf. Groups/Int	Conf. Integrations/Exp	Conf. Total Integrations	Conf. Total Exposure Time	Conf. Total Dithers																							
1	RAPID	5	1	1	53.684	1																								

Proposal 1193 - Observation 51 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F210M	F444W	BRIGHT2	10	122	1	122	2741.379	40830.7
PSF References	Eps Eri Ref star Visit 1 - NIRCam - Roll 3 - SUB320 - M335R (Obs 55) (PSF Reference; Filters [F210M/F444W]) Additional Justification: false									
Special Requirements	Offset -0.01 arcsec, 0.006 arcsec									

Proposal 1193 - Observation 52 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 52: Eps Eri Visit 1- NIRCcam - Roll 2 - SUB320 - M335R</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p> <p><i>Comments: Aperture PA offset 52 from 51 by 5 degrees is applied manually.</i></p>																													
Diagnostics	<p>(Eps Eri Visit 1- NIRCcam - Roll 2 - SUB320 - M335R (Obs 52)) Warning (Form): PSF Reference observations should be SEQ NON-INT.</p> <p>(Eps Eri Visit 1- NIRCcam - Roll 2 - SUB320 - M335R (Obs 52)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Eps Eri Visit 1- NIRCcam - Roll 2 - SUB320 - M335R (Obs 52)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging.</p> <p>(Visit 52:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																													
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(9)</td> <td>EPS-ERI</td> <td>RA: 03 32 55.8444 (53.2326850d) Dec: -09 27 29.74 (-9.45826d) Equinox: J2000</td> <td>Proper Motion RA: -974.758 mas/yr Proper Motion Dec: 20.876 mas/yr Parallax: 0.3105773" Epoch of Position: 2000.0</td> <td></td> </tr> </tbody> </table> <p><i>Comments: Object from Reyle (2021) - 10 parsec sample in the GAIA era</i></p> <p><i>F1550mu: 3.93 Jy</i> <i>F2300mu: 1.81 Jy</i> <i>F2550mu: 1.47 Jy</i></p> <p><i>K2V type star</i> <i>Kmag=1.67</i> <i>Category=Star</i> <i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i> <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(9)	EPS-ERI	RA: 03 32 55.8444 (53.2326850d) Dec: -09 27 29.74 (-9.45826d) Equinox: J2000	Proper Motion RA: -974.758 mas/yr Proper Motion Dec: 20.876 mas/yr Parallax: 0.3105773" Epoch of Position: 2000.0											
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(9)	EPS-ERI	RA: 03 32 55.8444 (53.2326850d) Dec: -09 27 29.74 (-9.45826d) Equinox: J2000	Proper Motion RA: -974.758 mas/yr Proper Motion Dec: 20.876 mas/yr Parallax: 0.3105773" Epoch of Position: 2000.0																											
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#	Target	Filter	Target Brightness	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																					
1	SAME	F335M	BRIGHT (ND Square)	BRIGHT2	9	1	1	0.956	40830.5																					
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#	Conf. Readout Pattern	Conf. Groups/Int	Conf. Integrations/Exp	Conf. Total Integrations	Conf. Total Exposure Time	Conf. Total Dithers																								
1	RAPID	5	1	1	53.684	1																								

Proposal 1193 - Observation 52 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F210M	F444W	BRIGHT2	10	122	1	122	2741.379	40830.7
PSF References	Eps Eri Ref star Visit 1 - NIRCam - Roll 3 - SUB320 - M335R (Obs 55) (PSF Reference; Filters [F210M/F444W]) Additional Justification: false									
Special Requirements	Offset -0.01 arcsec, 0.006 arcsec									

Proposal 1193 - Observation 53 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 53: Eps Eri Visit 1- NIRCcam - Roll 3 - SUB320 - M335R Diagnostic Status: Warning Observing Template: NIRCcam Coronagraphic Imaging <i>Comments: Aperture PA offset 53 from 52 by 5 degrees is applied manually.</i> <i>Same Aperture PA for 53,54 is applied manually.</i>																													
	(Eps Eri Visit 1- NIRCcam - Roll 3 - SUB320 - M335R (Obs 53)) Warning (Form): PSF Reference observations should be SEQ NON-INT. (Eps Eri Visit 1- NIRCcam - Roll 3 - SUB320 - M335R (Obs 53)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees (Eps Eri Visit 1- NIRCcam - Roll 3 - SUB320 - M335R (Obs 53)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging. (Visit 53:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																													
Diagnosics																														
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(9)</td> <td>EPS-ERI</td> <td>RA: 03 32 55.8444 (53.2326850d) Dec: -09 27 29.74 (-9.45826d) Equinox: J2000</td> <td>Proper Motion RA: -974.758 mas/yr Proper Motion Dec: 20.876 mas/yr Parallax: 0.3105773" Epoch of Position: 2000.0</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(9)	EPS-ERI	RA: 03 32 55.8444 (53.2326850d) Dec: -09 27 29.74 (-9.45826d) Equinox: J2000	Proper Motion RA: -974.758 mas/yr Proper Motion Dec: 20.876 mas/yr Parallax: 0.3105773" Epoch of Position: 2000.0		<i>Comments: Object from Reyle (2021) - 10 parsec sample in the GAIA era</i> <i>F1550mu: 3.93 Jy</i> <i>F2300mu: 1.81 Jy</i> <i>F2550mu: 1.47 Jy</i> <i>K2V type star</i> <i>Kmag=1.67</i> <i>Category=Star</i> <i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i> <i>Extended=NO</i>																		
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																									
(9)	EPS-ERI	RA: 03 32 55.8444 (53.2326850d) Dec: -09 27 29.74 (-9.45826d) Equinox: J2000	Proper Motion RA: -974.758 mas/yr Proper Motion Dec: 20.876 mas/yr Parallax: 0.3105773" Epoch of Position: 2000.0																											
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	#	Conf. Readout Pattern	Conf. Groups/Int	Conf. Integrations/Exp	Conf. Total Integrations	Conf. Total Exposure Time	Conf. Total Dithers																							
1	RAPID	5	1	1	53.684	1																								

Proposal 1193 - Observation 53 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F210M	F444W	BRIGHT2	10	122	1	122	2741.379	40830.7
PSF References	Eps Eri Ref star Visit 1 - NIRCam - Roll 3 - SUB320 - M335R (Obs 55) (PSF Reference; Filters [F210M/F444W]) Additional Justification: false									
Special Requirements	Offset -0.01 arcsec, 0.006 arcsec									

Proposal 1193 - Observation 54 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 54: Eps Eri Visit 1- NIRCcam - Roll 3 - FULL - M335R</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p> <p><i>Comments: Aperture PA offset 54 from 50 by 10 degrees is applied manually.</i></p> <p><i>Aperture PA offset 63 from 54 by 170 degrees is applied manually.</i></p> <p><i>Same Aperture PA for 53,54 is applied manually.</i></p>																													
	<p>(Eps Eri Visit 1- NIRCcam - Roll 3 - FULL - M335R (Obs 54)) Warning (Form): PSF Reference observations should be SEQ NON-INT.</p> <p>(Eps Eri Visit 1- NIRCcam - Roll 3 - FULL - M335R (Obs 54)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Eps Eri Visit 1- NIRCcam - Roll 3 - FULL - M335R (Obs 54)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging.</p> <p>(Visit 54:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																													
Diagnosics																														
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(9)</td> <td>EPS-ERI</td> <td>RA: 03 32 55.8444 (53.2326850d) Dec: -09 27 29.74 (-9.45826d) Equinox: J2000</td> <td>Proper Motion RA: -974.758 mas/yr Proper Motion Dec: 20.876 mas/yr Parallax: 0.3105773" Epoch of Position: 2000.0</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(9)	EPS-ERI	RA: 03 32 55.8444 (53.2326850d) Dec: -09 27 29.74 (-9.45826d) Equinox: J2000	Proper Motion RA: -974.758 mas/yr Proper Motion Dec: 20.876 mas/yr Parallax: 0.3105773" Epoch of Position: 2000.0		<p><i>Comments: Object from Reyle (2021) - 10 parsec sample in the GAIA era</i></p> <p><i>F1550mu: 3.93 Jy</i> <i>F2300mu: 1.81 Jy</i> <i>F2550mu: 1.47 Jy</i></p> <p><i>K2V type star</i> <i>Kmag=1.67</i> <i>Category=Star</i> <i>Description=[Circumstellar disks, Debris disks, Exoplanet Systems]</i> <i>Extended=NO</i></p>																		
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																									
(9)	EPS-ERI	RA: 03 32 55.8444 (53.2326850d) Dec: -09 27 29.74 (-9.45826d) Equinox: J2000	Proper Motion RA: -974.758 mas/yr Proper Motion Dec: 20.876 mas/yr Parallax: 0.3105773" Epoch of Position: 2000.0																											
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	#	Target	Filter	Target Brightness	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																				
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	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																				
1	F210M	F444W	RAPID	3	40	1	40	1707.146	40830.3																					

Proposal 1193 - Observation 54 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

PSF References	Eps Eri Ref star Visit 1- NIRCam - Roll 3 - FULL - M335R (Obs 56) (PSF Reference; Filters [F210M/F444W]) Additional Justification: false
Special Requirements	Offset -0.01 arcsec, 0.006 arcsec

Proposal 1193 - Observation 55 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 55: Eps Eri Ref star Visit 1 - NIRCcam - Roll 3 - SUB320 - M335R</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p>									
	<p>(Eps Eri Ref star Visit 1 - NIRCcam - Roll 3 - SUB320 - M335R (Obs 55)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging.</p> <p>(Visit 55:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(12)	EPS-ERI-PSF-ALL	RA: 03 43 14.9005 (55.8120854d) Dec: -09 45 48.21 (-9.76339d) Equinox: J2000			Proper Motion RA: -93.634 mas/yr Proper Motion Dec: 744.360 mas/yr Parallax: 0.1100254" Epoch of Position: 2000.0				
<p><i>Comments: Data from (Reyle 2021)</i></p> <p><i>Teff ~ 5055 K</i></p> <p><i>K0+IV type star</i></p> <p><i>Distance: 2.56 deg from eps Eri.</i></p> <p><i>Kmag=1.43</i></p> <p><i>15.5 mu F: 4.62 Jy</i></p> <p><i>23.0 mu F: 2.14 Jy</i></p> <p><i>25.5 mu F: 1.74 Jy</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Coronagraphic]</i></p> <p><i>Extended=NO</i></p>										
Acquisition	#	Target	Filter	Target Brightness	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	F335M	BRIGHT (ND Square)	BRIGHT2	9	1	1	0.956	40830.8
Template	Module	Coronagraphic Mask			Obtain Astrometric Confirmation Images?		Subarray	Dither Pattern		
	A	MASK335R			false		SUB320A335R	5-POINT-BOX		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F210M	F444W	BRIGHT2	10	40	5	200	4494.064	40830.10

Proposal 1193 - Observation 55 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

PSF References	PSF Reference: true
Special Requirements	Offset -0.01 arcsec, 0.006 arcsec

Proposal 1193 - Observation 56 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	<p>Proposal 1193, Observation 56: Eps Eri Ref star Visit 1- NIRCcam - Roll 3 - FULL - M335R</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p>																													
	<p>(Eps Eri Ref star Visit 1- NIRCcam - Roll 3 - FULL - M335R (Obs 56)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging.</p> <p>(Visit 56:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																													
Diagnosics																														
Fixed Targets	<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>(12)</td> <td>EPS-ERI-PSF-ALL</td> <td>RA: 03 43 14.9005 (55.8120854d) Dec: -09 45 48.21 (-9.76339d) Equinox: J2000</td> <td colspan="3">Proper Motion RA: -93.634 mas/yr Proper Motion Dec: 744.360 mas/yr Parallax: 0.1100254" Epoch of Position: 2000.0</td> <td colspan="4"></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous				(12)	EPS-ERI-PSF-ALL	RA: 03 43 14.9005 (55.8120854d) Dec: -09 45 48.21 (-9.76339d) Equinox: J2000	Proper Motion RA: -93.634 mas/yr Proper Motion Dec: 744.360 mas/yr Parallax: 0.1100254" Epoch of Position: 2000.0							<p><i>Comments: Data from (Reyle 2021)</i></p> <p><i>Teff ~ 5055 K</i> <i>K0+IV type star</i> <i>Distance: 2.56 deg from eps Eri.</i> <i>Kmag=1.43</i></p> <p><i>15.5 mu F: 4.62 Jy</i> <i>23.0 mu F: 2.14 Jy</i> <i>25.5 mu F: 1.74 Jy</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic]</i> <i>Extended=NO</i></p>								
	#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous																							
(12)	EPS-ERI-PSF-ALL	RA: 03 43 14.9005 (55.8120854d) Dec: -09 45 48.21 (-9.76339d) Equinox: J2000	Proper Motion RA: -93.634 mas/yr Proper Motion Dec: 744.360 mas/yr Parallax: 0.1100254" Epoch of Position: 2000.0																											
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1	SAME	F335M	BRIGHT (ND Square)	BRIGHT2	9	1	1	0.956	40830.11																					
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	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																				
1	F210M	F444W	RAPID	3	12	5	60	2523.141	40830.13																					

Proposal 1193 - Observation 56 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

PSF References	PSF Reference: true
Special Requirements	Offset -0.01 arcsec, 0.006 arcsec

Proposal 1193 - Observation 61 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 61: Eps Eri Visit 2 - NIRCcam - Roll 1 - FULL - M335R Diagnostic Status: Warning Observing Template: NIRCcam Coronagraphic Imaging																													
	(Eps Eri Visit 2 - NIRCcam - Roll 1 - FULL - M335R (Obs 61)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging. (Visit 61:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Eps Eri Visit 2 - NIRCcam - Roll 1 - FULL - M335R (Obs 61)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																													
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1	F210M	F444W	RAPID	3	40	1	40	1707.146	40830.3																					

Proposal 1193 - Observation 61 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

PSF References	Eps Eri Ref star Visit 2- NIRCam - Roll 2 - FULL - M335R (Obs 64) (PSF Reference; Filters [F210M/F444W]) Additional Justification: false
Special Requirements	Offset -0.01 arcsec, 0.006 arcsec Sequence Observations 61, 63, 64, Non-interruptible Aperture PA Offset 63 from 61 by 10 to 14 Degrees (Same offsets in V3)

Proposal 1193 - Observation 63 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 63: Eps Eri Visit 2 - NIRCcam - Roll 2 - FULL - M335R Diagnostic Status: Warning Observing Template: NIRCcam Coronagraphic Imaging																													
	(Eps Eri Visit 2 - NIRCcam - Roll 2 - FULL - M335R (Obs 63)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging. (Visit 63:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Eps Eri Visit 2 - NIRCcam - Roll 2 - FULL - M335R (Obs 63)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																													
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Proposal 1193 - Observation 63 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

PSF References	Eps Eri Ref star Visit 2- NIRCam - Roll 2 - FULL - M335R (Obs 64) (PSF Reference; Filters [F210M/F444W]) Additional Justification: false
Special Requirements	Offset -0.01 arcsec, 0.006 arcsec Sequence Observations 61, 63, 64, Non-interruptible Aperture PA Offset 63 from 61 by 10 to 14 Degrees (Same offsets in V3)

Proposal 1193 - Observation 64 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCcam and MIRI

Thu Jan 25 21:00:18 GMT 2024

Observation	Proposal 1193, Observation 64: Eps Eri Ref star Visit 2- NIRCcam - Roll 2 - FULL - M335R Diagnostic Status: Warning Observing Template: NIRCcam Coronagraphic Imaging																													
	(Eps Eri Ref star Visit 2- NIRCcam - Roll 2 - FULL - M335R (Obs 64)) Warning (Form): The NO PARALLEL ATTACHMENTS requirement is expected for NIRCcam Coronagraphic Imaging. (Visit 64:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																													
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Proposal 1193 - Observation 64 - Coronagraphic Imaging of Young Planets and Debris Disk with NIRCam and MIRI

PSF References	PSF Reference: true
Special Requirements	Offset -0.01 arcsec, 0.006 arcsec Sequence Observations 61, 63, 64, Non-interruptible