



1482 - Coronagraphic PSF Characterization & TA Verification

Cycle: 1, Proposal Category: CAL/NIRCAM

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Martha L. Boyer (PI)	Space Telescope Science Institute
Julien Girard (CoI) (Contact)	Space Telescope Science Institute
Dr. David A. Golimowski (CoI) (Contact)	Space Telescope Science Institute

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
New Part 1: TA repeatability				
	34	MASK210R, F210M, 9-PT CIRCLE, ROLL1	NIRCam Coronagraphic Imaging	(6) K5-2MASS-16235565+2823024
	35	MASK210R, F210M, 9-PT CIRCLE, ROLL2	NIRCam Coronagraphic Imaging	(6) K5-2MASS-16235565+2823024
	36	MASK335R, F335M, 9-PT CIRCLE, ROLL1	NIRCam Coronagraphic Imaging	(6) K5-2MASS-16235565+2823024
	37	MASK335R, F335M, 9-PT CIRCLE, ROLL2	NIRCam Coronagraphic Imaging	(6) K5-2MASS-16235565+2823024
	38	MASKSWB, F210M=>F182M, 5-PT BAR, ROLL1	NIRCam Coronagraphic Imaging	(6) K5-2MASS-16235565+2823024
	39	MASKSWB, F210M, 5-PT BAR, ROLL2	NIRCam Coronagraphic Imaging	(6) K5-2MASS-16235565+2823024
	40	MASK430R, F430M, 9-PT CIRCLE, ROLL1	NIRCam Coronagraphic Imaging	(6) K5-2MASS-16235565+2823024
	41	MASK430R, F430M, 9-PT CIRCLE, ROLL2	NIRCam Coronagraphic Imaging	(6) K5-2MASS-16235565+2823024

JWST Proposal 1482 (Created: Friday, August 4, 2023 at 2:00:56 PM Eastern Standard Time) - Overview

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	42	MASKLWB, F335M=>F250M=>F480M, 5-PT BAR, ROLL1	NIRCam Coronagraphic Imaging	(6) K5-2MASS-16235565+2823024
	43	MASKLWB, F335M, 5-PT BAR, ROLL2	NIRCam Coronagraphic Imaging	(6) K5-2MASS-16235565+2823024
New Part 2: TA repeatability & error mitigation				
	44	MASK210R, F210M, 9-PT CIRCLE, ROLL3	NIRCam Coronagraphic Imaging	(6) K5-2MASS-16235565+2823024
	45	MASK335R, F335M, 9-PT CIRCLE, ROLL3	NIRCam Coronagraphic Imaging	(6) K5-2MASS-16235565+2823024
	46	MASKSWB, F210M=>F182M, 5-PT BAR, ROLL3	NIRCam Coronagraphic Imaging	(6) K5-2MASS-16235565+2823024
	47	MASK430R, F430M, 9-PT CIRCLE, ROLL3	NIRCam Coronagraphic Imaging	(6) K5-2MASS-16235565+2823024
	48	MASKLWB, F335M=>F250M=>F480M, 5-PT BAR, ROLL3	NIRCam Coronagraphic Imaging	(6) K5-2MASS-16235565+2823024
Repeat of MASK210R obs 44 under WOPR 88743				
	49	MASK210R, F210M, 9-PT CIRCLE, ROLL3	NIRCam Coronagraphic Imaging	(6) K5-2MASS-16235565+2823024
Extra BAR positions- NARROW fiducial pointing overrides				
	50	MASKSWB NARROW, F210M, 5-PT BAR, ROLL1	NIRCam Coronagraphic Imaging	(6) K5-2MASS-16235565+2823024
	51	MASKLWB, F335M=>F410M, 5-PT BAR	NIRCam Coronagraphic Imaging	(6) K5-2MASS-16235565+2823024
	52	MASKLWB NARROW, F335M, 5-PT BAR, ROLL1	NIRCam Coronagraphic Imaging	(6) K5-2MASS-16235565+2823024
	53	MASKSWB NARROW, F210M, 5-PT BAR, ROLL2	NIRCam Coronagraphic Imaging	(6) K5-2MASS-16235565+2823024
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ABSTRACT

This program characterizes the NIRCcam coronagraphic PSF with different observing configurations (all masks and 1 or 2 filters) using a relatively bright photometric standard star and the small-grid dither patterns. Data from this program can also be used to verify target acquisition (TA) and flux calibration (CAL-NIRCcam-013). **PSF Characterization:** PSF characterization will use a JWST standard star and all mask/filter combinations that span the coronagraphic imaging wavelength range. These observations will check our ability to bootstrap accurate (to ~1-2%) absolute photometry with coronagraphs (including the coronagraphic wedge, substrate, Lyot stop) with respect to the standard imaging using the whole optical system (phased telescope + instrument). We will characterize the behavior of the PSF with wavelength and position along the bars. The same star will be observed in imaging mode through the same filters to make a direct comparison. We will also observe the same star with the coronagraph wedge in place, but placing the star a few arcsec outside the mask. Since we use a photometric standard (likely SNAP-2, a G2V star with K=14.2 mag), these data can supplement the absolute flux calibration. **Target Acquisition:** The PSF observations can also be used to as an additional check of the TA offsets, which will be verified during Commissioning (COM-NRC-30). This check requires no additional dedicated observations. After the TA exposure and subsequent slew to the occulter position, the fine steering mirror is used to perform a 5- or 3-point dither sequence in steps of ~10 mas. This will allow a verification of and, if necessary, an update to the ideal position of the bright star behind each occulter. This program will test the faint target acquisition (with SNAP-2); bright targets observed in the absolute flux calibration program (CAL-NIRCcam-013) will test TA using the neutral density squares.

This calibration program is provisional and may change in response to system developments and the final science program.

OBSERVING DESCRIPTION

March 3 2023 Girard

Based on needs and knowledge from commissioning, ERS and GTO programs

Replace Part 1, Part 2, Part 3 by New Part 1 and New Part 2 (15.7h total against 15.8h allocated)

New Part 1: TA repeatability

BEFORE MAY 15

(2 times each TA with a 5 to 8 deg roll for each mask, 1 change of filter for MASKSWB roll1, 2 changes of filter for MASKLWB roll1)

~9.7h

obs 34 to 43

MASK210R, F210M, 9-PT CIRCLE, ROLL1

MASK210R, F210M, 9-PT CIRCLE, ROLL2

MASK335R, F335M, 9-PT CIRCLE, ROLL1

MASK335R, F335M, 9-PT CIRCLE, ROLL2

MASKSWB, F210M=>F182M, 5-PT BAR, ROLL1

MASKSWB, F210M, 5-PT BAR, ROLL2

MASK430R, F430M, 9-PT CIRCLE, ROLL1

MASK430R, F430M, 9-PT CIRCLE, ROLL2

MASKLWB, F335M=>F250M=>F480M, 5-PT BAR, ROLL1

MASKLWB, F335M, 5-PT BAR, ROLL2

New Part 2: TA repeatability & error mitigation

BEFORE MAY 31

(1 time each TA for each mask, 1 change of filter for MASKSWB roll1, 2 changes of filter for MASKLWB roll1)

~6.0h

obs 44 to 48

MASK210R, F210M, 9-PT CIRCLE, ROLL3

MASK335R, F335M, 9-PT CIRCLE, ROLL3

MASKSWB, F210M=>F182M, 5-PT BAR, ROLL3

MASK430R, F430M, 9-PT CIRCLE, ROLL3

MASKLWB, F335M=>F250M=>F480M, 5-PT BAR, ROLL3

Nov 2019 MBoyer

The observations will use the coronagraphic imaging template, with 7 combinations:

- MASK210R, F210M, 5-pt DIAMOND dither
- MASKSWB, F210M F182M, 3-pt BAR dither
- MASKSWB, F182M F210M, 3-pt BAR dither
- MASK335R, F335M, 5-pt DIAMOND dither
- MASKLWB, F335M F480M, 3-pt BAR dither
- MASKLWB, F480M F335M, 3-pt BAR dither
- MASK430R, F430M, 5-pt DIAMOND dither

The program is designed in 3 parts.

Part 1: SNAP-2 behind the mask, using all 7 configurations.

Part 2: SNAP-2 outside of the mask, using 5 configurations (only one direction is needed for each bar),

Part 3: Direct imaging of SNAP-2 on A2, A4, and A5.

In all parts, exposure specifications need to be verified. Part 3 may require subarrays.

TIMING CONSTRAINTS: Group all of the photometric calibration observations to occur within a few days or so of each other.

Jan 2019 Slim version:

- 1) Cutting part 4, which will be covered in the absolute flux program.
- 2) Need to verify whether the full array is OK for part 3
- 3) Need to verify exposure parameters everywhere -- timing is provisional, but won't change much

Using target SNAP-2 because this is the only solar analog that won't saturate in FULL frame with RAPID, 3 groups (it saturates in 4 groups). When it's behind the mask, we'll use MEDIUM8 with 5 groups to ensure we get enough flux.

*****NOTE!! Need to verify exposure time for when star is behind mask*****

Parts 1, 2, and 3 are groups to occur with 6 days of each other.

Part 1: Put the star behind the mask, and test all mask configurations for TA verification w/ a faint target (Bright target TA is verified in part 4). Integrate long (see above note about SNAP-2) to get enough flux for photometric calibration. Do astrometric confirmation images only in the first observation in the sequence.

Part 2: Apply a $x=3''$, $y=3''$ offset in Special requirements and observe the star with all mask configurations. However, we only need to do the bar in one direction in this case, since this part doesn't need to test TA. Only do astrometric confirmation images in first observation in sequence.

*****NOTE!! Need to verify that TA still happens on the star position, but then the mask is put at the offset position. *****

Part 3: Put the star near same position as masks, but without the coronagraphy optics. Put it in A2 and A4 (2 observations)

*****NOTE!! Need to verify position of stars to place near location of coronagraph mask*****

Part 4: Verify TA using a bright star that requires ND square. Use all configurations. Needs much brighter target than SNAP-2.

Proposal 1482 - Targets - Coronagraphic PSF Characterization & TA Verification

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
		(6)	K5-2MASS- 16235565+2823024	RA: 16 23 55.6445 (245.9818521d) Dec: +28 23 2.54 (28.38404d) Equinox: J2000	Proper Motion RA: -8.565767714927286E-4 sec of time/yr Proper Motion Dec: -6.870001016068272E-4 arcsec/yr Epoch of Position: 2015.5
		<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Kmag=5.0</i></p> <p><i>Cold attitude target for DOY 134</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Point spread function]</i></p>			

Proposal 1482 - Observation 34 - Coronagraphic PSF Characterization & TA Verification

Fri Aug 04 19:00:56 GMT 2023

Observation	Proposal 1482, Observation 34: MASK210R, F210M, 9-PT CIRCLE, ROLL1 Diagnostic Status: Error Observing Template: NIRCam Coronagraphic Imaging <i>Comments: Observation is marked as PSF Reference for Cycle 1 use, but must be kept proprietary during commissioning period.</i>																													
	(MASK210R, F210M, 9-PT CIRCLE, ROLL1 (Obs 34)) Error (Form): Long Filter is a required field. (MASK210R, F210M, 9-PT CIRCLE, ROLL1 (Obs 34)) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition. (Visit 34:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																													
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Proposal 1482 - Observation 34 - Coronagraphic PSF Characterization & TA Verification

PSF References	PSF Reference: true
Special Requirements	Before Date 15-MAY-2023:00:00:00 No Parallel Attachments Aperture PA Offset 35 from 34 by 5 to 8 Degrees (Same offsets in V3)

Proposal 1482 - Observation 35 - Coronagraphic PSF Characterization & TA Verification

Fri Aug 04 19:00:56 GMT 2023

Observation	Proposal 1482, Observation 35: MASK210R, F210M, 9-PT CIRCLE, ROLL2 Diagnostic Status: Error Observing Template: NIRCcam Coronagraphic Imaging <i>Comments: Observation is marked as PSF Reference for Cycle 1 use, but must be kept proprietary during commissioning period.</i>																													
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Proposal 1482 - Observation 35 - Coronagraphic PSF Characterization & TA Verification

PSF References	PSF Reference: true
Special Requirements	Before Date 15-MAY-2023:00:00:00 No Parallel Attachments Aperture PA Offset 35 from 34 by 5 to 8 Degrees (Same offsets in V3)

Proposal 1482 - Observation 36 - Coronagraphic PSF Characterization & TA Verification

Fri Aug 04 19:00:56 GMT 2023

Observation	Proposal 1482, Observation 36: MASK335R, F335M, 9-PT CIRCLE, ROLL1 Diagnostic Status: Error Observing Template: NIRCam Coronagraphic Imaging <i>Comments: Observation is marked as PSF Reference for Cycle 1 use, but must be kept proprietary during commissioning period.</i>																													
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Proposal 1482 - Observation 36 - Coronagraphic PSF Characterization & TA Verification

PSF References	PSF Reference: true
Special Requirements	Before Date 15-MAY-2023:00:00:00 No Parallel Attachments Aperture PA Offset 37 from 36 by 5 to 8 Degrees (Same offsets in V3)

Proposal 1482 - Observation 37 - Coronagraphic PSF Characterization & TA Verification

Fri Aug 04 19:00:56 GMT 2023

Observation	Proposal 1482, Observation 37: MASK335R, F335M, 9-PT CIRCLE, ROLL2 Diagnostic Status: Error Observing Template: NIRCam Coronagraphic Imaging <i>Comments: Observation is marked as PSF Reference for Cycle 1 use, but must be kept proprietary during commissioning period.</i>																													
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Proposal 1482 - Observation 37 - Coronagraphic PSF Characterization & TA Verification

PSF References	PSF Reference: true
Special Requirements	Before Date 15-MAY-2023:00:00:00 No Parallel Attachments Aperture PA Offset 37 from 36 by 5 to 8 Degrees (Same offsets in V3)

Proposal 1482 - Observation 38 - Coronagraphic PSF Characterization & TA Verification

Fri Aug 04 19:00:56 GMT 2023

Observation	<p>Proposal 1482, Observation 38: MASKSWB, F210M=>F182M, 5-PT BAR, ROLL1</p> <p>Diagnostic Status: Error</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p> <p><i>Comments: Observation is marked as PSF Reference for Cycle 1 use, but must be kept proprietary during commissioning period.</i></p>																																							
Diagnostics	<p>(MASKSWB, F210M=>F182M, 5-PT BAR, ROLL1 (Obs 38)) Error (Form): Long Filter is a required field.</p> <p>(MASKSWB, F210M=>F182M, 5-PT BAR, ROLL1 (Obs 38)) Error (Form): Long Filter is a required field.</p> <p>(MASKSWB, F210M=>F182M, 5-PT BAR, ROLL1 (Obs 38)) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition.</p> <p>(Visit 38:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																							
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Proposal 1482 - Observation 38 - Coronagraphic PSF Characterization & TA Verification

PSF References	PSF Reference: true
Special Requirements	Before Date 15-MAY-2023:00:00:00 No Parallel Attachments Aperture PA Offset 39 from 38 by 5 to 8 Degrees (Same offsets in V3)

Proposal 1482 - Observation 39 - Coronagraphic PSF Characterization & TA Verification

Fri Aug 04 19:00:56 GMT 2023

Observation	<p>Proposal 1482, Observation 39: MASKSWB, F210M, 5-PT BAR, ROLL2</p> <p>Diagnostic Status: Error</p> <p>Observing Template: NIRCam Coronagraphic Imaging</p> <p><i>Comments: Observation is marked as PSF Reference for Cycle 1 use, but must be kept proprietary during commissioning period.</i></p>																													
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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>F210M</td> <td></td> <td>RAPID</td> <td>10</td> <td>1</td> <td>5</td> <td>5</td> <td>536.838</td> <td></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		RAPID	10	1	5	5	536.838										
	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																				
1	F210M		RAPID	10	1	5	5	536.838																						

Proposal 1482 - Observation 39 - Coronagraphic PSF Characterization & TA Verification

PSF References	PSF Reference: true
Special Requirements	Before Date 15-MAY-2023:00:00:00 No Parallel Attachments Aperture PA Offset 39 from 38 by 5 to 8 Degrees (Same offsets in V3)

Proposal 1482 - Observation 40 - Coronagraphic PSF Characterization & TA Verification

Fri Aug 04 19:00:56 GMT 2023

Observation	Proposal 1482, Observation 40: MASK430R, F430M, 9-PT CIRCLE, ROLL1 Diagnostic Status: Error Observing Template: NIRCcam Coronagraphic Imaging <i>Comments: Observation is marked as PSF Reference for Cycle 1 use, but must be kept proprietary during commissioning period.</i>																													
	(MASK430R, F430M, 9-PT CIRCLE, ROLL1 (Obs 40)) Error (Form): Short Filter is a required field. (MASK430R, F430M, 9-PT CIRCLE, ROLL1 (Obs 40)) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition. (Visit 40:1) 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>(6)</td> <td>K5-2MASS-16235565+2823024</td> <td>RA: 16 23 55.6445 (245.9818521d) Dec: +28 23 2.54 (28.38404d) Equinox: J2000</td> <td>Proper Motion RA: -8.565767714927286E-4 sec of time/yr Proper Motion Dec: -6.870001016068272E-4 arcsec/yr Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(6)	K5-2MASS-16235565+2823024	RA: 16 23 55.6445 (245.9818521d) Dec: +28 23 2.54 (28.38404d) Equinox: J2000	Proper Motion RA: -8.565767714927286E-4 sec of time/yr Proper Motion Dec: -6.870001016068272E-4 arcsec/yr Epoch of Position: 2015.5		<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Kmag~5.0</i> Cold attitude target for DOY 134 Category=Calibration Description=[Point spread function]																		
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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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1		F430M	RAPID	10	1	9	9	966.309																						

Proposal 1482 - Observation 40 - Coronagraphic PSF Characterization & TA Verification

PSF References	PSF Reference: true
Special Requirements	Before Date 15-MAY-2023:00:00:00 No Parallel Attachments Aperture PA Offset 41 from 40 by 5 to 8 Degrees (Same offsets in V3)

Proposal 1482 - Observation 41 - Coronagraphic PSF Characterization & TA Verification

Fri Aug 04 19:00:56 GMT 2023

Observation	Proposal 1482, Observation 41: MASK430R, F430M, 9-PT CIRCLE, ROLL2 Diagnostic Status: Error Observing Template: NIRCam Coronagraphic Imaging <i>Comments: Observation is marked as PSF Reference for Cycle 1 use, but must be kept proprietary during commissioning period.</i>																													
	(MASK430R, F430M, 9-PT CIRCLE, ROLL2 (Obs 41)) Error (Form): Short Filter is a required field. (MASK430R, F430M, 9-PT CIRCLE, ROLL2 (Obs 41)) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition. (Visit 41:1) 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>(6)</td> <td>K5-2MASS-16235565+2823024</td> <td>RA: 16 23 55.6445 (245.9818521d) Dec: +28 23 2.54 (28.38404d) Equinox: J2000</td> <td>Proper Motion RA: -8.565767714927286E-4 sec of time/yr Proper Motion Dec: -6.870001016068272E-4 arcsec/yr Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(6)	K5-2MASS-16235565+2823024	RA: 16 23 55.6445 (245.9818521d) Dec: +28 23 2.54 (28.38404d) Equinox: J2000	Proper Motion RA: -8.565767714927286E-4 sec of time/yr Proper Motion Dec: -6.870001016068272E-4 arcsec/yr Epoch of Position: 2015.5											
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1		F430M	RAPID	10	1	9	9	966.309																						

Proposal 1482 - Observation 41 - Coronagraphic PSF Characterization & TA Verification

PSF References	PSF Reference: true
Special Requirements	Before Date 15-MAY-2023:00:00:00 No Parallel Attachments Aperture PA Offset 41 from 40 by 5 to 8 Degrees (Same offsets in V3)

Proposal 1482 - Observation 42 - Coronagraphic PSF Characterization & TA Verification

Fri Aug 04 19:00:56 GMT 2023

Observation	Proposal 1482, Observation 42: MASKLWB, F335M=>F250M=>F480M, 5-PT BAR, ROLL1 Diagnostic Status: Error Observing Template: NIRCcam Coronagraphic Imaging <i>Comments: Observation is marked as PSF Reference for Cycle 1 use, but must be kept proprietary during commissioning period.</i>																																																	
Diagnostics	(MASKLWB, F335M=>F250M=>F480M, 5-PT BAR, ROLL1 (Obs 42)) Error (Form): Short Filter is a required field. (MASKLWB, F335M=>F250M=>F480M, 5-PT BAR, ROLL1 (Obs 42)) Error (Form): Short Filter is a required field. (MASKLWB, F335M=>F250M=>F480M, 5-PT BAR, ROLL1 (Obs 42)) Error (Form): Short Filter is a required field. (MASKLWB, F335M=>F250M=>F480M, 5-PT BAR, ROLL1 (Obs 42)) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition. (Visit 42:1) 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>(6)</td> <td>K5-2MASS-16235565+2823024</td> <td>RA: 16 23 55.6445 (245.9818521d) Dec: +28 23 2.54 (28.38404d) Equinox: J2000</td> <td>Proper Motion RA: -8.565767714927286E-4 sec of time/yr Proper Motion Dec: -6.870001016068272E-4 arcsec/yr Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Kmag~5.0</i></p> <p><i>Cold attitude target for DOY 134 Category=Calibration Description=[Point spread function]</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(6)	K5-2MASS-16235565+2823024	RA: 16 23 55.6445 (245.9818521d) Dec: +28 23 2.54 (28.38404d) Equinox: J2000	Proper Motion RA: -8.565767714927286E-4 sec of time/yr Proper Motion Dec: -6.870001016068272E-4 arcsec/yr Epoch of Position: 2015.5																															
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2		F250M	RAPID	10	1	5	5	536.838																																										
3		F480M	RAPID	10	1	5	5	536.838																																										

Proposal 1482 - Observation 42 - Coronagraphic PSF Characterization & TA Verification

PSF References	PSF Reference: true
Special Requirements	Before Date 15-MAY-2023:00:00:00 No Parallel Attachments Aperture PA Offset 43 from 42 by 5 to 8 Degrees (Same offsets in V3)

Proposal 1482 - Observation 43 - Coronagraphic PSF Characterization & TA Verification

Fri Aug 04 19:00:56 GMT 2023

Observation	<p>Proposal 1482, Observation 43: MASKLWB, F335M, 5-PT BAR, ROLL2</p> <p>Diagnostic Status: Error</p> <p>Observing Template: NIRCam Coronagraphic Imaging</p> <p><i>Comments: Observation is marked as PSF Reference for Cycle 1 use, but must be kept proprietary during commissioning period.</i></p>									
	<p>(MASKLWB, F335M, 5-PT BAR, ROLL2 (Obs 43)) Error (Form): Short Filter is a required field.</p> <p>(MASKLWB, F335M, 5-PT BAR, ROLL2 (Obs 43)) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition.</p> <p>(Visit 43:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
Diagnostics										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(6)	K5-2MASS-16235565+2823024	RA: 16 23 55.6445 (245.9818521d) Dec: +28 23 2.54 (28.38404d) Equinox: J2000		Proper Motion RA: -8.565767714927286E-4 sec of time/yr Proper Motion Dec: -6.870001016068272E-4 arcsec/yr Epoch of Position: 2015.5					
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Kmag~5.0</i></p> <p><i>Cold attitude target for DOY 134</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Point spread function]</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)	MEDIUM2	33	1	1	16.204	
Template	Module	Coronagraphic Mask			Obtain Astrometric Confirmation Images?		Subarray	Dither Pattern		
	A	MASKLWB			true		FULL	5-POINT-BAR		
Confirmation	#	Conf. Readout Pattern	Conf. Groups/Int	Conf. Integrations/Exp	Conf. Total Integrations	Conf. Total Exposure Time	Conf. Total Dithers			
	1	RAPID	10	1	1	107.368	1			
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		F335M	RAPID	10	1	5	5	536.838	

Proposal 1482 - Observation 43 - Coronagraphic PSF Characterization & TA Verification

PSF References	PSF Reference: true
Special Requirements	Before Date 15-MAY-2023:00:00:00 No Parallel Attachments Aperture PA Offset 43 from 42 by 5 to 8 Degrees (Same offsets in V3)

Proposal 1482 - Observation 44 - Coronagraphic PSF Characterization & TA Verification

Fri Aug 04 19:00:56 GMT 2023

Observation	Proposal 1482, Observation 44: MASK210R, F210M, 9-PT CIRCLE, ROLL3 Diagnostic Status: Error Observing Template: NIRCcam Coronagraphic Imaging <i>Comments: Observation is marked as PSF Reference for Cycle 1 use, but must be kept proprietary during commissioning period.</i>																													
	(MASK210R, F210M, 9-PT CIRCLE, ROLL3 (Obs 44)) Error (Form): Long Filter is a required field. (MASK210R, F210M, 9-PT CIRCLE, ROLL3 (Obs 44)) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition. (Visit 44:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																													
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1	F210M		RAPID	10	1	9	9	966.309																						

Proposal 1482 - Observation 44 - Coronagraphic PSF Characterization & TA Verification

PSF References	PSF Reference: true
Special Requirements	Before Date 31-MAY-2023:00:00:00 No Parallel Attachments

Proposal 1482 - Observation 45 - Coronagraphic PSF Characterization & TA Verification

Fri Aug 04 19:00:56 GMT 2023

Observation	<p>Proposal 1482, Observation 45: MASK335R, F335M, 9-PT CIRCLE, ROLL3</p> <p>Diagnostic Status: Error</p> <p>Observing Template: NIRCam Coronagraphic Imaging</p> <p><i>Comments: Observation is marked as PSF Reference for Cycle 1 use, but must be kept proprietary during commissioning period.</i></p>																													
	<p>(MASK335R, F335M, 9-PT CIRCLE, ROLL3 (Obs 45)) Error (Form): Short Filter is a required field.</p> <p>(MASK335R, F335M, 9-PT CIRCLE, ROLL3 (Obs 45)) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition.</p> <p>(Visit 45:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																													
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1	SAME	F335M	BRIGHT (ND Square)	MEDIUM2	33	1	1	16.204																						
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Proposal 1482 - Observation 45 - Coronagraphic PSF Characterization & TA Verification

PSF References	PSF Reference: true
Special Requirements	Before Date 31-MAY-2023:00:00:00 No Parallel Attachments

Proposal 1482 - Observation 46 - Coronagraphic PSF Characterization & TA Verification

Fri Aug 04 19:00:56 GMT 2023

Observation	<p>Proposal 1482, Observation 46: MASKSWB, F210M=>F182M, 5-PT BAR, ROLL3</p> <p>Diagnostic Status: Error</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p> <p><i>Comments: Observation is marked as PSF Reference for Cycle 1 use, but must be kept proprietary during commissioning period.</i></p>																																							
Diagnostics	<p>(MASKSWB, F210M=>F182M, 5-PT BAR, ROLL3 (Obs 46)) Error (Form): Long Filter is a required field.</p> <p>(MASKSWB, F210M=>F182M, 5-PT BAR, ROLL3 (Obs 46)) Error (Form): Long Filter is a required field.</p> <p>(MASKSWB, F210M=>F182M, 5-PT BAR, ROLL3 (Obs 46)) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition.</p> <p>(Visit 46:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																							
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2	F182M		RAPID	10	1	5	5	536.838																																

Proposal 1482 - Observation 46 - Coronagraphic PSF Characterization & TA Verification

PSF References	PSF Reference: true
Special Requirements	Before Date 31-MAY-2023:00:00:00 No Parallel Attachments

Proposal 1482 - Observation 47 - Coronagraphic PSF Characterization & TA Verification

Fri Aug 04 19:00:56 GMT 2023

Observation	<p>Proposal 1482, Observation 47: MASK430R, F430M, 9-PT CIRCLE, ROLL3</p> <p>Diagnostic Status: Error</p> <p>Observing Template: NIRCam Coronagraphic Imaging</p> <p><i>Comments: Observation is marked as PSF Reference for Cycle 1 use, but must be kept proprietary during commissioning period.</i></p>									
	<p>(MASK430R, F430M, 9-PT CIRCLE, ROLL3 (Obs 47)) Error (Form): Short Filter is a required field.</p> <p>(MASK430R, F430M, 9-PT CIRCLE, ROLL3 (Obs 47)) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition.</p> <p>(Visit 47:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
Diagnostics										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(6)	K5-2MASS-16235565+2823024	RA: 16 23 55.6445 (245.9818521d) Dec: +28 23 2.54 (28.38404d) Equinox: J2000		Proper Motion RA: -8.565767714927286E-4 sec of time/yr Proper Motion Dec: -6.870001016068272E-4 arcsec/yr Epoch of Position: 2015.5					
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Kmag~5.0</i></p> <p><i>Cold attitude target for DOY 134</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Point spread function]</i></p>										
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	1	SAME	F335M	BRIGHT (ND Square)	MEDIUM2	33	1	1	16.204	
Template	Module	Coronagraphic Mask			Obtain Astrometric Confirmation Images?		Subarray	Dither Pattern		
	A	MASK430R			true		FULL	9-POINT-CIRCLE		
Confirmation	#	Conf. Readout Pattern	Conf. Groups/Int	Conf. Integrations/Exp	Conf. Total Integrations	Conf. Total Exposure Time	Conf. Total Dithers			
	1	RAPID	10	1	1	107.368	1			
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		F430M	RAPID	10	1	9	9	966.309	

Proposal 1482 - Observation 47 - Coronagraphic PSF Characterization & TA Verification

PSF References	PSF Reference: true
Special Requirements	Before Date 31-MAY-2023:00:00:00 No Parallel Attachments

Proposal 1482 - Observation 48 - Coronagraphic PSF Characterization & TA Verification

Fri Aug 04 19:00:56 GMT 2023

Observation	Proposal 1482, Observation 48: MASKLWB, F335M=>F250M=>F480M, 5-PT BAR, ROLL3 Diagnostic Status: Error Observing Template: NIRCcam Coronagraphic Imaging <i>Comments: Observation is marked as PSF Reference for Cycle 1 use, but must be kept proprietary during commissioning period.</i>																																																	
	(MASKLWB, F335M=>F250M=>F480M, 5-PT BAR, ROLL3 (Obs 48)) Error (Form): Short Filter is a required field. (MASKLWB, F335M=>F250M=>F480M, 5-PT BAR, ROLL3 (Obs 48)) Error (Form): Short Filter is a required field. (MASKLWB, F335M=>F250M=>F480M, 5-PT BAR, ROLL3 (Obs 48)) Error (Form): Short Filter is a required field. (MASKLWB, F335M=>F250M=>F480M, 5-PT BAR, ROLL3 (Obs 48)) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition. (Visit 48:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																	
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Proposal 1482 - Observation 48 - Coronagraphic PSF Characterization & TA Verification

PSF References	PSF Reference: true
Special Requirements	Before Date 31-MAY-2023:00:00:00 No Parallel Attachments

Proposal 1482 - Observation 49 - Coronagraphic PSF Characterization & TA Verification

Fri Aug 04 19:00:56 GMT 2023

Observation	<p>Proposal 1482, Observation 49: MASK210R, F210M, 9-PT CIRCLE, ROLL3</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Coronagraphic Imaging</p> <p><i>Comments: Observation is marked as PSF Reference for Cycle 1 use, but must be kept proprietary during commissioning period.</i></p>									
	<p>(Visit 49:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(6)	K5-2MASS-16235565+2823024	RA: 16 23 55.6445 (245.9818521d) Dec: +28 23 2.54 (28.38404d) Equinox: J2000		Proper Motion RA: -8.565767714927286E-4 sec of time/yr Proper Motion Dec: -6.870001016068272E-4 arcsec/yr Epoch of Position: 2015.5					
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Kmag~5.0</i></p> <p><i>Cold attitude target for DOY 134</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Point spread function]</i></p>										
Acquisition	#	Target	Filter	Target Brightness	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	F210M	BRIGHT (ND Square)	MEDIUM2	17	1	1	29.671	151438
Template	Module	Coronagraphic Mask			Obtain Astrometric Confirmation Images?		Subarray	Dither Pattern		
	A	MASK210R			true		FULL	9-POINT-CIRCLE		
Confirmation	#	Conf. Readout Pattern	Conf. Groups/Int	Conf. Integrations/Exp	Conf. Total Integrations	Conf. Total Exposure Time	Conf. Total Dithers			
	1	RAPID	9	1	1	96.631	1			
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	F335M	RAPID	10	1	9	9	966.309	

Proposal 1482 - Observation 49 - Coronagraphic PSF Characterization & TA Verification

PSF References	PSF Reference: true
Special Requirements	Before Date 31-AUG-2023:00:00:00 No Parallel Attachments

Proposal 1482 - Observation 50 - Coronagraphic PSF Characterization & TA Verification

Fri Aug 04 19:00:56 GMT 2023

Observation	Proposal 1482, Observation 50: MASKSWB NARROW, F210M, 5-PT BAR, ROLL1 Diagnostic Status: Warning Observing Template: NIRCcam Coronagraphic Imaging <i>Comments: Observation is marked as PSF Reference for Cycle 1 use, but must be kept proprietary during commissioning period.</i>																													
	(MASKSWB NARROW, F210M, 5-PT BAR, ROLL1 (Obs 50)) Warning (Form): The selected fiducial point is not a standard option for the instrument. (Visit 50:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																													
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1	F210M	F335M	RAPID	10	1	5	5	536.838	151438																					

Proposal 1482 - Observation 50 - Coronagraphic PSF Characterization & TA Verification

PSF References	PSF Reference: true
Special Requirements	Before Date 31-AUG-2023:00:00:00 No Parallel Attachments Fiducial Point Override NRCA4_FULL_MASKSWB_NARROW Aperture PA Offset 53 from 50 by 5 to 8 Degrees (Same offsets in V3)

Proposal 1482 - Observation 51 - Coronagraphic PSF Characterization & TA Verification

Fri Aug 04 19:00:56 GMT 2023

Observation	Proposal 1482, Observation 51: MASKLWB, F335M=>F410M, 5-PT BAR Diagnostic Status: Warning Observing Template: NIRCcam Coronagraphic Imaging <i>Comments: Observation is marked as PSF Reference for Cycle 1 use, but must be kept proprietary during commissioning period.</i>																																							
	(Visit 51:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																							
Diagnostics																																								
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2	F210M	F410M	RAPID	10	1	5	5	536.838																																

Proposal 1482 - Observation 51 - Coronagraphic PSF Characterization & TA Verification

PSF References	PSF Reference: true
Special Requirements	Before Date 31-AUG-2023:00:00:00 No Parallel Attachments

Proposal 1482 - Observation 52 - Coronagraphic PSF Characterization & TA Verification

Fri Aug 04 19:00:56 GMT 2023

Observation	Proposal 1482, Observation 52: MASKLWB NARROW, F335M, 5-PT BAR, ROLL1 Diagnostic Status: Warning Observing Template: NIRCcam Coronagraphic Imaging <i>Comments: Observation is marked as PSF Reference for Cycle 1 use, but must be kept proprietary during commissioning period.</i>																													
	(MASKLWB NARROW, F335M, 5-PT BAR, ROLL1 (Obs 52)) Warning (Form): The selected fiducial point is not a standard option for the instrument. (Visit 52:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																													
Diagnosics																														
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1	F210M	F250M	RAPID	10	1	5	5	536.838	151438																					

Proposal 1482 - Observation 52 - Coronagraphic PSF Characterization & TA Verification

PSF References	PSF Reference: true
Special Requirements	Before Date 31-AUG-2023:00:00:00 No Parallel Attachments Fiducial Point Override NRCA5_FULL_MASKLWB_NARROW Aperture PA Offset 54 from 52 by 5 to 8 Degrees (Same offsets in V3)

Proposal 1482 - Observation 53 - Coronagraphic PSF Characterization & TA Verification

Fri Aug 04 19:00:56 GMT 2023

Observation	<p>Proposal 1482, Observation 53: MASKSWB NARROW, F210M, 5-PT BAR, ROLL2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p> <p><i>Comments: Observation is marked as PSF Reference for Cycle 1 use, but must be kept proprietary during commissioning period.</i></p>																													
	<p>(MASKSWB NARROW, F210M, 5-PT BAR, ROLL2 (Obs 53)) Warning (Form): The selected fiducial point is not a standard option for the instrument.</p> <p>(Visit 53:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																													
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Proposal 1482 - Observation 53 - Coronagraphic PSF Characterization & TA Verification

PSF References	PSF Reference: true
Special Requirements	Before Date 31-AUG-2023:00:00:00 No Parallel Attachments Fiducial Point Override NRCA4_FULL_MASKSWB_NARROW Aperture PA Offset 53 from 50 by 5 to 8 Degrees (Same offsets in V3)

Proposal 1482 - Observation 54 - Coronagraphic PSF Characterization & TA Verification

Fri Aug 04 19:00:56 GMT 2023

Observation	<p>Proposal 1482, Observation 54: MASKLWB NARROW, F335M, 5-PT BAR, ROLL2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p> <p><i>Comments: Observation is marked as PSF Reference for Cycle 1 use, but must be kept proprietary during commissioning period.</i></p>																													
	<p>(MASKLWB NARROW, F335M, 5-PT BAR, ROLL2 (Obs 54)) Warning (Form): The selected fiducial point is not a standard option for the instrument.</p> <p>(Visit 54:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																													
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Proposal 1482 - Observation 54 - Coronagraphic PSF Characterization & TA Verification

PSF References	PSF Reference: true
Special Requirements	Before Date 31-AUG-2023:00:00:00 No Parallel Attachments Fiducial Point Override NRCA5_FULL_MASKLWB_NARROW Aperture PA Offset 54 from 52 by 5 to 8 Degrees (Same offsets in V3)