



1074 - CAR NIRCcam-029 Photometric Zero Points and Stability

Cycle: 0, Proposal Category: COM/NIRCAM

INVESTIGATORS

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OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Part 1; 1st Repeat of Astrometric Field, Module to Module to Module transfer				
	1	Astrometric field w/ module to module transfer	NIRCcam Engineering Imaging	(14) LMC-ASTROMETRIC-FIELD-OFFSET
	2	SCA-to-SCA Transfer	NIRCcam Imaging	(3) LMC-ASTROMETRIC-FIELD
	4	Full frame to SUB400P Transfer part 1	NIRCcam Imaging	(4) 2MASS05214330-6927498
	5	Full frame to SUB400P Transfer part 2	NIRCcam Imaging	(4) 2MASS05214330-6927498
Part 2: 2nd Repeat of Astrometric field - photometric stability				
	3	2nd Repeat of astrometric field w/ moduled to module transfer	NIRCcam Engineering Imaging	(14) LMC-ASTROMETRIC-FIELD-OFFSET

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<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Part 3: P330E Zero Point				
	6	P330E SUB64P	NIRCam Imaging	(1) P330-E
	206	P330E SUB64P LW re do	NIRCam Imaging	(1) P330-E
	7	P330E SUB160P	NIRCam Imaging	(1) P330-E
	8	P330E SUB400P	NIRCam Imaging	(1) P330-E
Part 4: P177D Zero Point				
	9	P177D Sub160P Module B	NIRCam Imaging	(2) P177-D
On-hold pending JDB review				
	70	P330E SUB160P	NIRCam Imaging	(1) P330-E
	90	P177D Sub160P Module B	NIRCam Imaging	(2) P177-D
	91	P177D Sub64P Module B	NIRCam Imaging	(2) P177-D
Early Throughput Check				
	100	P177D Sub160P Module B	NIRCam Imaging	(2) P177-D
	101	P177D Sub160 Module A	NIRCam Engineering Imaging	(2) P177-D
	102	WD1057+719 Sub400P Module B	NIRCam Imaging	(6) WD1057+719
	103	SKIP WD1057+719 Sub320 Module A	NIRCam Engineering Imaging	(6) WD1057+719
	104	P177D Sub160 ModA (SW A4, A2), med filters	NIRCam Engineering Imaging	(2) P177-D
	105	P177D Sub160P Module B, med filters	NIRCam Imaging	(2) P177-D
	106	P177D Sub160P ModB, all filters	NIRCam Imaging	(2) P177-D
Original obs 1 and 3				
	901	Astrometric field w/ module to module transfer	NIRCam Imaging	(14) LMC-ASTROMETRIC-FIELD-OFFSET

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	903	2nd Repeat of astrometric field w/ modulated to module transfer	NIRCam Imaging	(14) LMC-ASTROMETRIC-FIELD-OFFSET

ABSTRACT

New abstract July 2019 (Marcia Rieke) (Still OK, March 2020, JStans)

This proposal observes the primary calibration stars P330E and P177D in all filters except F150W2 on one SW SCA and one LW SCA. Because these two stars are too bright to be measured in NIRCam's full frame mode, they will be observed using subarrays which necessitates some additional work. These calibration star observations are transferred to other SCAs and the other module via imaging of the LMC astrometric field which contains a large number of stars over a range in brightness. The subarray timing checks will be done in only one filter pair as the timing does not depend on wavelength. The SCA-to-SCA and Module-to-Module transfers will use 4 filter pairs spanning the range of NIRCam wavelengths. These LMC observations can be compared with those for CAR-21 (astrometric calibration) to check photometric stability.

P330E is a G2V star with $K=11.35$ and has been observed extensively by HST and other observatories at a broad range of wavelengths. It is visible 10-Feb through 30-Aug. It will be observed on the B1 and B5 detectors (only) using the SUB64P subarray for the filters with the strongest signals, and larger subarrays for other filters.

P177D is a slightly fainter ($K=11.86$) G0V star with a similar heritage. It will be observed using the SUB160 subarrays on detectors B1 and B5 only. It is visible 14-Jan through 10-Aug.

The LMC astrometric field is in the CVZ and has HST F606W data as well as ground based JHK data. See CAR-21 for more description of this field. We will use this field for relative photometry and throughput checks.

OBSERVING DESCRIPTION

Sep. 2021 submission, J. Stansberry

 Updated Observations 4, 5, FULL to SUB400 calibration transfer, to use F210M+F360M rather than F200W+F356W. This allows ~5 groups before

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saturation in the FULL exposures, rather than just 2, hopefully improving the precision of the check on FULL vs. SUB response. Adjusted exposure time up by x2.5 to account for change in filter bandpasses, total time increased by 11 minutes to 14.94 hours.

Added proper motion for P330-E and P177-D. Assumed epoch of 2015.5 (GAIA catalog).

Added 2 more-isolated 2MASS sources in the CVZ-S, but decided not to use them (they are slightly brighter than existing target 2MASS05214330).

Apr. 2020 submission, J. Stansberry, M. Robberto

Added backup targets from flux calibration working group list in order to improve visibility of targets for summer 2021 timeframe expected for commissioning.

March 2020 submission, M. Robberto, J. Stansberry:

Reprocessed with APT 2020.1 to improve time estimates.

Removed observation links from the APT file per standard procedure for commissioning.

Such constraints should be indicated in the CAR doc and Proposal Description. Ergo:

SCHEDULING NOTES (copied from the CAR doc):

The observations in this CAR fall into 4 groups, with the following scheduling implications:

Part 1: Repeat observation of the LMC astrometric field. Timing of this is established by the 24hr analysis period following NRC-19 (see above), and by the requirement that NRC-19 follow the analysis period of NRC-21. Part 1 consists of observations 1, 2, 4 & 5 in the APT file. All 4 observations should be scheduled contemporaneously, and in particular observations 4 & 5 should run with no intervening activities (non-interruptible sequence).

Part 2: 2nd repeat observation of the LMC astrometric field, 8 – 30 days after the Part 1 observations. Part 2 consists of observation #3 in the APT file.

Part 3: Observations of the primary calibrator P330E. This star has very similar visibility to P177D (below). The observations in Part 3 can occur any time after the 24hr analysis period following NRC-19. There are no timing constraints between these observations and those in Parts 1, 2 or 4 of this CAR. The observations in Part 3 are 6, 7, 8 in the APT file. The observations of P330E should be taken together, but may be separated in time from the observation of P177D.

Part 4: Observation of the primary calibrator P177 D. This star has very similar visibility to P330E (above). The observation in Part 4 can occur any time after the 24hr analysis period following NRC-19. There are no timing constraints between these observations and those in Parts 1, 2 or 3 of this CAR. The observation in Part 4 is #9 in the APT file.

Leins:

As noted below by Martha, observation 2 (SCA-to-SCA transfer) is .perhaps not needed. Potential saving of 4 hr if we do that.

We don't discuss the effects of the rotation of the field between NRC-21, NRC-29 Part 1, and NRC-29 Part 2. This will limit stars that are in common between those observations, and complicate the analysis. Probably just deal with that in the CAP.

We need backup primary calibrators because of the limited and rather poor visibility of P330E and P177D. Changing calibrators won't have any particular impact on duration nor pre-requisites nor links between the separate observations.

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Notes from Martha Boyer July 2019, prior to resubmission:

I made some changes to make the observations consistent with the notes from Marcia below. These changes include:

1) Took the target offset out of observations 1, 2, & 3 to ensure that all of the relevant SCAs fall entirely on the central (ACS) LMC field. For

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posterity, the offsets for obs 1&3 were $x=-48.4''$ and $y=-64.2''$ and for obs 2 were $x=-105''$ and $y=-32''$.

- 2) Added mosaic to observation 3 so the modules overlap.
- 3) Observation 4: Was missing the 2MASS target (fell between modules). Changed from NRC_ALL to Module B only. Applied a target offset to put the 2MASS source in the center of 1 SCA.
- 4) Changed comment in obs 1 to match Marcia's text below about the timing. Added special requirement to obs 3 to have it occur 8-14 days after obs 1 (this timing needs to be verified by Marcia).
- 5) Obs 1-3: changed exposure parameters to match CAR-21, as described in Marcia's comments below.
- 6) Made obs 4&5 non-interruptible.

Comment on Marcia's additional notes:

- 1) Obs 6 cannot place the target within $0.2''$ of either the SW or the LW subarray without missing the target in one of the channels. However, the subarray_dither does ensure that the target falls within both the SW and LW subarrays, regardless of pointing limitations.

Additional comments from Martha

- 1) We can probably delete observation 2 (SCA-to-SCA transfer). This is done already in CAR-21 (APT-1069) for astrometry... unless there is need to repeat this.
- 2) Note that we also do module-to-module overlap in CAR-21. But since obs 1&3 are described as repeats, they can probably stay.

At time of submission, program is 15.47 hrs (with smart accounting). Allocation is 20.4 hrs.

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Notes from Marcia Rieke, June 2019:

This CAR has three separate goals: 1) Determine zeropoints for NIRCcam using previously well studied G2V stars P330E and P177D which are too bright to observe in full frame mode so additional steps are required to cross-calibrate subarray measurements with full frame measurements, 2) Cross-calibrate both in the time domain and spatially the transfer of the zeropoint star data to all SCAs and modules and to full-frame data using stars in the LMC astrometric field, and 3) Check the photometric stability by repeating observations on the LMC astrometric field using the same filters and exposure patterns as used in CAR-21.

P330E is used to transfer in the time domain from SUB64P to SUB160P to SUB400P. A 2MASS star in the LMC astrometric field is used to go from SUB400P->FULL FRAME. The same LW/SW filter pair is used in each step of the transfers. These timing checks are necessary because subarray mode includes slightly different telemetry overheads and a rolling reset of the rest of the SCA so the exposure times are not exactly proportional to those in full frame mode, and these data will confirm photometrically the timing estimates derived from clocking patterns. Visits 3 through 8 include acquiring these data. Only one filter pair is used as the timing is wavelength independent. The exposure times in this set of images were selected to give $S/N > 200$ per exposure.

The two bright standards are being measured on only one SW SCA and the LW SCA in Module B. The zeropoints will be transferred to other SW SCAs and from Module B to Module A by measuring the same set of stars from the LMC astrometric field on all SCAs and modules. Visits 1 and 2 achieve this spatial transfer. Because all the SCAs in a module share the same optics and only vary by having different quantum efficiencies, only 4 filter pairs will be observed for the spatial transfers. The two modules of NIRCcam also have nearly identical coatings and optics so again use of 4 filter pairs is warranted.

Photometric stability will be assessed by the repeat observations of the LMC astrometric field using the same four filter pairs as CAR-21. The repeat data are taken in Visit 1 and then a separate repeat in Visit 3.

Timing Constraints:

The following time constraints are needed to check the photometric stability over time.

- 1) Visit 1 should be executed between 8 and 14 days of CAR-21.
- 2) Visit 6 should be executed within 1 and 4 days of Visit 1.

Additional Notes

- 1) We assume that the use of GAIA coordinates and guide stars will ensure that the SUB64P subarray will include the targets reasonably close to the center of the subarray ("reasonably" means no further than a total radial offset of 0.2").
- 2) P330E and P177D are not in the CVZ. P330E is available approximately from middle of February to the end of August. P177D is available from

the middle of January to about August 10.

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Oct 2018: M Boyer updated PI/Co-IsObservations of P177D

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Original CAR notes (circa 2016-ish?)

Observation 1:

Measure absolute calibration in all NIRCcam filters on all 5 Module B detectors.

The SUB160 subarrays are used. These are clustered at the center of the FPAs. A 2x2 mosaic with 30% FOV overlap will result in the star falling in the corners of each of the 4 SW SCAs, and it will be on the LW SCA for all 4 mosaic positions.

A 2-point subpixel dither is used to improve PSF sampling, flat-field correction, and allow for bad pixel replacement and cosmic-ray rejection.

Exposure parameters are set to give $SNR > 150$ while avoiding saturation. RAPID exposure mode is used for all exposures, with NGroups determined by saturation limits, and NINTS chosen to provide the desired SNR.

Filters F150W2 and F322W2 are omitted because they saturate in the first frame.

Observation 2:

This observation occurs immediately after Observation 1 (SEQ NON_INT).

A full-frame exposure in the F212N filter is taken to give the calibration scaling between

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the SUB160 subarray and full-frame.

Observation 3:

A repeat of Observation 1, but using the Engineering Imaging template so that the Module-A subarrays can be used.

Observation 4:

Re-observe P177D in the F210M and F430M filters in order to measure photometric stability.
This observation is constrained to occur 1 - 5 days after Observation 1.

Observation 5:

Re-observe P177D in the F210M and F430M filters in order to measure photometric stability.
This observation is constrained to occur 2 - 10 days after Observation 4.

Observations of P330E

Observation 6:

Measure the absolute calibration in all NIRCcam filters on Module B.

The SUB64P subarray is used in order to avoid saturating on this bright star. As a result, data will only be acquired on the B1 and B5 SCAs.

A 2-point subpixel dither is used to improve PSF sampling, flat-field correction, and allow for bad pixel replacement and cosmic-ray rejection.

Observation 7:

This observation occurs immediately after Observation 6 (SEQ NON_INT).

A SUB160P exposure in the F212N filter is taken to give the calibration scaling between

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the SUB64P subarray and the larger subarray used to observe P177D.

Proposal 1074 - Targets - CAR NIRCcam-029 Photometric Zero Points and Stability

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	P330-E	RA: 16 31 33.8200 (247.8909167d) Dec: +30 08 46.50 (30.14625d) Equinox: J2000	Proper Motion RA: -8.991 mas/yr Proper Motion Dec: -38.768 mas/yr Epoch of Position: 2015.5	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. aka GSC 02581-02323, 2MASSJ16313382+3008465</i></p> <p><i>Need to get the proper motion data for this target. DONE, JStans. Used epoch 2015.5 for the PM, as indicated in the GAIA 2018 catalog reference.</i></p> <p>Category=Calibration Description=[G stars, Photometric]</p>				
(2)	P177-D	RA: 15 59 13.5790 (239.8065792d) Dec: +47 36 41.91 (47.61164d) Equinox: J2000	Proper Motion RA: -7.905 mas/yr Proper Motion Dec: 1.569 mas/yr Epoch of Position: 2015.5	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. aka GSC 03493-00432, 2MASS J15591357+4736419</i></p> <p><i>Need to get proper motion data for this target. DONE, JStans. Used epoch 2015.5 for the PM, as indicated in the GAIA 2018 catalog reference.</i></p> <p>Category=Calibration Description=[G stars, Photometric]</p>				
(3)	LMC-ASTROMETRIC-FIELD	RA: 05 21 57.0000 (80.4875000d) Dec: -69 29 51.00 (-69.49750d) Equinox: J2000		
<p><i>Comments: Category=Calibration Description=[Astrometric, Photometric]</i></p>				
(4)	2MASS05214330-6927498	RA: 05 21 43.3100 (80.4304583d) Dec: -69 27 49.94 (-69.46387d) Equinox: J2000	Proper Motion RA: 1.9 mas/yr Proper Motion Dec: 0.64 mas/yr Epoch of Position: 2015.5	
<p><i>Comments: Coordinates and PM are from are from GAIA DR2 updated by ES on 2019-06-21. This target has K~15.2 from 2MASS.</i></p> <p><i>J=15.96, H=15.50, K=15.15 Qflg = BCC</i></p> <p><i>It is in the LMC astrometric field, and the target for the SUB400 -> Full-frame calibration transfer.</i></p> <p><i>JStans 8/2021: This target doesn't in SIMBAD, but I was able to find it doing a VizieR search in 2mass around the target coords.</i></p> <p>Category=Calibration Description=[Photometric] Extended=NO</p>				
(5)	LDS749D	RA: 21 32 16.6598 (323.0694158d) Dec: +00 15 14.82 (.25412d) Equinox: J2000	Proper Motion RA: 0.02754880428638679 sec of time/yr Proper Motion Dec: 0.02727 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>Category=Calibration Description=[Photometric]</p>				

Fixed Targets

Proposal 1074 - Targets - CAR NIRCcam-029 Photometric Zero Points and Stability

(6)	WD1057+719	RA: 11 00 34.2433 (165.1426804d) Dec: +71 38 2.92 (71.63414d) Equinox: J2000	Proper Motion RA: -0.009234331599978586 sec of time/yr Proper Motion Dec: -0.021751999906882702 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Calibration Description=[Photometric]</p>			
(7)	2MASS-J18120957+6329423	RA: 18 12 9.5766 (273.0399025d) Dec: +63 29 42.28 (63.49508d) Equinox: J2000	Proper Motion RA: 6.073986884720732E-4 sec of time/yr Proper Motion Dec: 0.001308999999999998 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Calibration Description=[Photometric]</p>			
(8)	2MASS-J18083474+6927286	RA: 18 08 34.7492 (272.1447883d) Dec: +69 27 28.85 (69.45801d) Equinox: J2000	Proper Motion RA: 8.422304570854965E-4 sec of time/yr Proper Motion Dec: 0.008519 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Calibration Description=[Photometric]</p>			
(9)	2MASS-J18022716+6043356	RA: 18 02 27.1700 (270.6132083d) Dec: +60 43 35.70 (60.72658d) Equinox: J2000	Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Calibration Description=[Photometric]</p>			
(10)	2MASS-J17430448+6655015	RA: 17 43 4.4886 (265.7687025d) Dec: +66 55 1.62 (66.91712d) Equinox: J2000	Proper Motion RA: 1.863649334211266E-4 sec of time/yr Proper Motion Dec: -0.002785000083349587 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Calibration Description=[Photometric]</p>			
(11)	2MASS-J16194609+5534178	RA: 16 19 46.0976 (244.9420733d) Dec: +55 34 17.69 (55.57158d) Equinox: J2000	Proper Motion RA: -3.4325228084528225E-4 sec of time/yr Proper Motion Dec: -0.01095199993415008 arcsec/yr Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Calibration Description=[Photometric]</p>			
(12)	2MASS05214570-6927493	RA: 05 21 45.7200 (80.4405000d) Dec: -69 27 49.10 (-69.46364d) Equinox: J2000	
<p><i>Comments: Added by JStans, 8/2021</i> Well isolated (11") CVZ-S star 2mass J=15.47, H=14.82, K=14.53, Q/fg = AAB Category=Calibration Description=[Photometric]</p>			

Proposal 1074 - Targets - CAR NIRCcam-029 Photometric Zero Points and Stability

(13)	2MASS05214776-6927436	RA: 05 21 47.7600 (80.4490000d) Dec: -69 27 43.60 (-69.46211d) Equinox: J2000
<p><i>Comments: Added by JStans, 8/2021</i> <i>Reasonably isolated (5.5") CVZ-S star</i> <i>2mass J=15.82, H=15.03, K=15.04, Qflg=AA</i> <i>Category=Calibration</i> <i>Description=[Photometric]</i></p>		
(14)	LMC-ASTROMETRIC- FIELD-OFFSET	RA: 05 22 14.3312 (80.5597133d) Dec: -69 30 0.60 (-69.50017d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Astrometric, Photometric]</i></p>		

Proposal 1074 - Observation 1 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	Proposal 1074, Observation 1: Astrometric field w/ module to module transfer Diagnostic Status: Warning Observing Template: NIRCcam Engineering Imaging Coordinated Parallel Template(s): FGS External Calibration <i>Comments: The timing of this visit is to be 8 to 14 days after CAR-21 (APT 1069).</i>											
Diagnostics	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 1:2) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(14)	LMC-ASTROMETRIC-FIELD-OFFSET	RA: 05 22 14.3312 (80.5597133d) Dec: -69 30 0.60 (-69.50017d) Equinox: J2000									
	<i>Comments:</i> Category=Calibration Description=[Astrometric, Photometric]											
Template	NIRCcam Engineering Imaging					FGS External Calibration						
	Module: ALL					Target type: IMAGE						
	Subarray: FULL					Detector: GUIDER1						
Mosaic	Rows	Columns	Row Overlap %	Column Overlap %	Row shift	Column shift	Tile Order					
	1	2	0.0	43.27	0.0	0.0	DEFAULT					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions		
	1	INTRAMODULE		3		STANDARD				1		
Spectral Elements	NIRCcam Engineering Imaging	Short Pupil	Long Pupil	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wbkk.Calc ID
	1	CLEAR	CLEAR	F070W	F480M	BRIGHT1	5	1	3	3	289.893	
	2	CLEAR	CLEAR	F210M	F277W	BRIGHT1	5	1	3	3	289.893	
	3	CLEAR	CLEAR	F150W	F335M	BRIGHT1	5	1	3	3	289.893	
	4	CLEAR	CLEAR	F200W	F444W	BRIGHT1	5	1	3	3	289.893	
Spectral Elements	FGS External Calibration	Readout Pattern		Groups/Int	Integrations/Exp	Total Dithers		Total Integrations	Total Exposure Time		ETC Wbkk.Calc ID	
	1	FGSRAPID		2	3	3		9	289.893			
	2	FGSRAPID		2	3	3		9	289.893			
	3	FGSRAPID		2	3	3		9	289.893			
	4	FGSRAPID		2	3	3		9	289.893			

Proposal 1074 - Observation 1 - CAR NIRCcam-029 Photometric Zero Points and Stability

Special Requirements

Group Visits within 53.0 Days
Visits Same PA
No Parallel
Guide Star in Guider 2

Proposal 1074 - Observation 2 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	<p>Proposal 1074, Observation 2: SCA-to-SCA Transfer</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p>																																																										
Diagnostics	<p>(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 2:2) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 2:3) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 2:4) 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 colspan="3">Targ. Coord. Corrections</th> <th colspan="3">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>LMC-ASTROMETRIC-FIELD</td> <td>RA: 05 21 57.0000 (80.4875000d) Dec: -69 29 51.00 (-69.49750d) Equinox: J2000</td> <td colspan="3"></td> <td colspan="3"></td> </tr> <tr> <td colspan="9"> <p><i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Astrometric, Photometric]</i></p> </td> </tr> </tbody> </table>									#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous			(3)	LMC-ASTROMETRIC-FIELD	RA: 05 21 57.0000 (80.4875000d) Dec: -69 29 51.00 (-69.49750d) Equinox: J2000							<p><i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Astrometric, Photometric]</i></p>																															
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4	F200W	F480M	BRIGHT1	5	1	3	3	289.893																																																			
Special Requirements	<p>Group Visits within 53.0 Days</p> <p>Visits Same PA</p>																																																										

Proposal 1074 - Observation 4 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	Proposal 1074, Observation 4: Full frame to SUB400P Transfer part 1 Diagnostic Status: Warning Observing Template: NIRCcam Imaging									
	(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Diagnostics										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Miscellaneous			
	(4)	2MASS05214330-6927498	RA: 05 21 43.3100 (80.4304583d) Dec: -69 27 49.94 (-69.46387d) Equinox: J2000		Proper Motion RA: 1.9 mas/yr Proper Motion Dec: 0.64 mas/yr Epoch of Position: 2015.5					
<i>Comments: Coordinates and PM are from are from GAIA DR2 updated by ES on 2019-06-21. This target has K~15.2 from 2MASS. J=15.96, H=15.50, K=15.15 Qflg = BCC It is in the LMC astrometric field, and the target for the SUB400 -> Full-frame calibration transfer. JStans 8/2021: This target doesn't in SIMBAD, but I was able to find it doing a Vizier search in 2mass around the target coords. Category=Calibration Description=[Photometric] Extended=NO</i>										
Template	Module				Subarray					
	B				FULL					
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRAMODULE		3	STANDARD			1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F210M	F360M	RAPID	6	2	6	3	418.734	

Special Requirements

Offset 38.0 arcsec, 38.0 arcsec

Proposal 1074 - Observation 5 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	<p>Proposal 1074, Observation 5: Full frame to SUB400P Transfer part 2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p>									
	<p>(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
Diagnostics										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Miscellaneous			
	(4)	2MASS05214330-6927498	RA: 05 21 43.3100 (80.4304583d) Dec: -69 27 49.94 (-69.46387d) Equinox: J2000		Proper Motion RA: 1.9 mas/yr Proper Motion Dec: 0.64 mas/yr Epoch of Position: 2015.5					
<p><i>Comments: Coordinates and PM are from are from GAIA DR2 updated by ES on 2019-06-21. This target has K~15.2 from 2MASS.</i></p> <p><i>J=15.96, H=15.50, K=15.15 Qflg = BCC</i></p> <p><i>It is in the LMC astrometric field, and the target for the SUB400 -> Full-frame calibration transfer.</i></p> <p><i>JStans 8/2021: This target doesn't in SIMBAD, but I was able to find it doing a Vizier search in 2mass around the target coords. Category=Calibration Description=[Photometric] Extended=NO</i></p>										
Template	Module				Subarray					
	B				SUB400P					
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	SUBARRAY_DITHER		3	STANDARD			1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F210M	F360M	RAPID	10	4	12	3	218.869	

Proposal 1074 - Observation 3 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	Proposal 1074, Observation 3: 2nd Repeat of astrometric field w/ moduled to module transfer Diagnostic Status: Warning Observing Template: NIRCcam Engineering Imaging Coordinated Parallel Template(s): FGS External Calibration											
	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 3:2) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(14)	LMC-ASTROMETRIC-FIELD-OFFSET	RA: 05 22 14.3312 (80.5597133d) Dec: -69 30 0.60 (-69.50017d) Equinox: J2000									
<i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Astrometric, Photometric]</i>												
Template	NIRCcam Engineering Imaging						FGS External Calibration					
	Module: ALL Subarray: FULL						Target type: IMAGE Detector: GUIDER1					
Mosaic	Rows	Columns	Row Overlap %		Column Overlap %		Row shift	Column shift		Tile Order		
	1	2	0.0		43.27		0.0	0.0		DEFAULT		
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions		
	1	INTRAMODULE		3		STANDARD				1		
Spectral Elements	NIRCcam Engineering Imaging	Short Pupil	Long Pupil	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	CLEAR	CLEAR	F070W	F480M	BRIGHT1	5	1	3	3	289.893	
	2	CLEAR	CLEAR	F210M	F277W	BRIGHT1	5	1	3	3	289.893	
	3	CLEAR	CLEAR	F150W	F335M	BRIGHT1	5	1	3	3	289.893	
	4	CLEAR	CLEAR	F200W	F444W	BRIGHT1	5	1	3	3	289.893	
Spectral Elements	FGS External Calibration	Readout Pattern		Groups/Int	Integrations/Exp		Total Dithers	Total Integrations		Total Exposure Time	ETC Wkbk.Calc ID	
	1	FGSRAPID		2	3		3	9		289.893		
	2	FGSRAPID		2	3		3	9		289.893		
	3	FGSRAPID		2	3		3	9		289.893		
	4	FGSRAPID		2	3		3	9		289.893		

Proposal 1074 - Observation 3 - CAR NIRCcam-029 Photometric Zero Points and Stability

Special Requirements

Group Visits within 53.0 Days
Visits Same PA
No Parallel
Guide Star in Guider 2

Proposal 1074 - Observation 6 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	Proposal 1074, Observation 6: P330E SUB64P Diagnostic Status: Warning Observing Template: NIRCcam Imaging																																																																					
	(P330E SUB64P (Obs 6)) Warning (Form): Pointing performance insufficient (P330E SUB64P (Obs 6)) Warning (Form): Pointing performance insufficient (P330E SUB64P (Obs 6)) Warning (Form): Pointing performance insufficient (P330E SUB64P (Obs 6)) Warning (Form): Pointing performance insufficient (P330E SUB64P (Obs 6)) Warning (Form): Pointing performance insufficient (Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																																					
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Proposal 1074 - Observation 206 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	Proposal 1074, Observation 206: P330E SUB64P LW redo Diagnostic Status: Warning Observing Template: NIRCcam Imaging																																																																					
	(P330E SUB64P LW redo (Obs 206)) Warning (Form): Pointing performance insufficient (P330E SUB64P LW redo (Obs 206)) Warning (Form): Pointing performance insufficient (P330E SUB64P LW redo (Obs 206)) Warning (Form): Pointing performance insufficient (P330E SUB64P LW redo (Obs 206)) Warning (Form): Pointing performance insufficient (P330E SUB64P LW redo (Obs 206)) Warning (Form): Pointing performance insufficient (Visit 206:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																																					
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5	F140M	F300M	RAPID	10	3	9	3	4.989																																																														
Special Requirements	Offset -1.35 arcsec, -1.62 arcsec																																																																					

Proposal 1074 - Observation 7 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	<p>Proposal 1074, Observation 7: P330E SUB160P</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p>									
Diagnostics	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous			
	(1)	P330-E	RA: 16 31 33.8200 (247.8909167d) Dec: +30 08 46.50 (30.14625d) Equinox: J2000	Proper Motion RA: -8.991 mas/yr Proper Motion Dec: -38.768 mas/yr Epoch of Position: 2015.5						
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. aka GSC 02581-02323, 2MASSJ16313382+3008465</i></p> <p><i>Need to get the proper motion data for this target. DONE, JStans. Used epoch 2015.5 for the PM, as indicated in the GAIA 2018 catalog reference. Category=Calibration Description=[G stars, Photometric]</i></p>									
Template	Module				Subarray					
	B				SUB160P					
Dithers	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions				
	1	SUBARRAY_DITHER	3	STANDARD		1				
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F070W	F250M	RAPID	4	2	6	3	8.39	
	2	F140M	F300M	RAPID	2	3	9	3	7.569	
	3	F162M+F150W2	F335M	RAPID	3	2	6	3	6.718	
	4	F182M	F360M	RAPID	3	2	6	3	6.718	
	5	F210M	F410M	RAPID	4	2	6	3	8.39	
	6	F164N+F150W2	F430M	RAPID	8	2	6	3	15.077	

Proposal 1074 - Observation 8 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	<p>Proposal 1074, Observation 8: P330E SUB400P</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</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			
	(1)	P330-E	RA: 16 31 33.8200 (247.8909167d) Dec: +30 08 46.50 (30.14625d) Equinox: J2000	Proper Motion RA: -8.991 mas/yr Proper Motion Dec: -38.768 mas/yr Epoch of Position: 2015.5						
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. aka GSC 02581-02323, 2MASSJ16313382+3008465</i></p> <p><i>Need to get the proper motion data for this target. DONE, JStans. Used epoch 2015.5 for the PM, as indicated in the GAIA 2018 catalog reference. Category=Calibration Description=[G stars, Photometric]</i></p>									
Template	Module				Subarray					
	B				SUB400P					
Dithers	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions				
	1	SUBARRAY_DITHER	3	STANDARD		1				
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F164N+F150W2	F430M	RAPID	3	1	3	3	19.936	
	2	F187N	F460M	RAPID	4	1	3	3	24.905	
	3	F212N	F480M	RAPID	4	1	3	3	24.905	
	4	F212N	F323N+F322W2	RAPID	8	1	3	3	44.78	
	5	F212N	F405N+F444W	RAPID	8	1	3	3	44.78	
	6	F212N	F466N+F444W	RAPID	8	2	6	3	89.56	
	7	F212N	F470N+F444W	RAPID	8	2	6	3	89.56	

Proposal 1074 - Observation 9 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	Proposal 1074, Observation 9: P177D Sub160P Module B Diagnostic Status: Warning Observing Template: NIRCcam Imaging									
	(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Miscellaneous			
	(2)	P177-D	RA: 15 59 13.5790 (239.8065792d) Dec: +47 36 41.91 (47.61164d) Equinox: J2000		Proper Motion RA: -7.905 mas/yr Proper Motion Dec: 1.569 mas/yr Epoch of Position: 2015.5					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. aka GSC 03493-00432, 2MASS J15591357+4736419</i> <i>Need to get proper motion data for this target. DONE, JStans. Used epoch 2015.5 for the PM, as indicated in the GAIA 2018 catalog reference. Category=Calibration Description=[G stars, Photometric]</i>										
Template	Module				Subarray					
	B				SUB160P					
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	SUBARRAY_DITHER		3	STANDARD			1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F070W	F356W	RAPID	3	2	6	3	6.718	
	2	F090W	F277W	RAPID	2	2	6	3	5.046	
	3	F115W	F444W	RAPID	2	3	9	3	7.569	
	4	F150W	F250M	RAPID	2	3	9	3	7.569	
	5	F200W	F300M	RAPID	3	2	6	3	6.718	
	6	F140M	F335M	RAPID	3	2	6	3	6.718	
	7	F162M+F150W2	F360M	RAPID	3	2	6	3	6.718	
	8	F182M	F410M	RAPID	3	2	6	3	6.718	
	9	F210M	F430M	RAPID	5	2	6	3	10.062	
	10	F164N+F150W2	F460M	RAPID	10	2	6	3	18.421	
	11	F187N	F480M	RAPID	10	2	6	3	18.421	
	12	F212N	F323N+F322W2	RAPID	10	4	12	3	36.842	
	13	F164N+F150W2	F405N+F444W	RAPID	10	4	12	3	36.842	
	14	F187N	F466N+F444W	RAPID	10	8	24	3	73.684	
	15	F212N	F470N+F444W	RAPID	10	8	24	3	73.684	

Proposal 1074 - Observation 70 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	<p>Proposal 1074, Observation 70: P330E SUB160P</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p>									
Diagnostics	(Visit 70:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(1)	P330-E	RA: 16 31 33.8200 (247.8909167d) Dec: +30 08 46.50 (30.14625d) Equinox: J2000		Proper Motion RA: -8.991 mas/yr Proper Motion Dec: -38.768 mas/yr Epoch of Position: 2015.5					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. aka GSC 02581-02323, 2MASSJ16313382+3008465</i></p> <p><i>Need to get the proper motion data for this target. DONE, JStans. Used epoch 2015.5 for the PM, as indicated in the GAIA 2018 catalog reference. Category=Calibration Description=[G stars, Photometric]</i></p>									
Template	Module				Subarray					
	B				SUB160P					
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	SUBARRAY_DITHER		3	STANDARD			1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F070W	F250M	RAPID	2	4	12	3	10.092	
	2	F140M	F300M	RAPID	2	3	9	3	7.569	
	3	F162M+F150W2	F335M	RAPID	3	2	6	3	6.718	
	4	F182M	F360M	RAPID	3	2	6	3	6.718	
	5	F210M	F410M	RAPID	4	2	6	3	8.39	
	6	F164N+F150W2	F430M	RAPID	8	2	6	3	15.077	

Proposal 1074 - Observation 90 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	Proposal 1074, Observation 90: P177D Sub160P Module B Diagnostic Status: Warning Observing Template: NIRCcam Imaging									
	(Visit 90:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(2)	P177-D	RA: 15 59 13.5790 (239.8065792d) Dec: +47 36 41.91 (47.61164d) Equinox: J2000		Proper Motion RA: -7.905 mas/yr Proper Motion Dec: 1.569 mas/yr Epoch of Position: 2015.5					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. aka GSC 03493-00432, 2MASS J15591357+4736419</i> <i>Need to get proper motion data for this target. DONE, JStans. Used epoch 2015.5 for the PM, as indicated in the GAIA 2018 catalog reference. Category=Calibration Description=[G stars, Photometric]</i>										
Template	Module				Subarray					
	B				SUB160P					
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	SUBARRAY_DITHER		3	STANDARD			1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F070W	F356W	RAPID	2	2	6	3	5.046	
	2	F200W	F300M	RAPID	2	2	6	3	5.046	
	3	F140M	F335M	RAPID	3	2	6	3	6.718	
	4	F162M+F150W2	F360M	RAPID	3	2	6	3	6.718	
	5	F182M	F410M	RAPID	3	2	6	3	6.718	
	6	F210M	F430M	RAPID	5	2	6	3	10.062	
	7	F164N+F150W2	F460M	RAPID	10	2	6	3	18.421	
	8	F187N	F480M	RAPID	10	2	6	3	18.421	
	9	F212N	F323N+F322W2	RAPID	10	4	12	3	36.842	
	10	F164N+F150W2	F405N+F444W	RAPID	10	4	12	3	36.842	
	11	F187N	F466N+F444W	RAPID	10	8	24	3	73.684	
12	F212N	F470N+F444W	RAPID	10	8	24	3	73.684		

Proposal 1074 - Observation 91 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	Proposal 1074, Observation 91: P177D Sub64P Module B Diagnostic Status: Warning Observing Template: NIRCcam Imaging																																																
	(P177D Sub64P Module B (Obs 91)) Warning (Form): Pointing performance insufficient (P177D Sub64P Module B (Obs 91)) Warning (Form): Pointing performance insufficient (P177D Sub64P Module B (Obs 91)) Warning (Form): Pointing performance insufficient (Visit 91:1) 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>(2)</td> <td>P177-D</td> <td>RA: 15 59 13.5790 (239.8065792d) Dec: +47 36 41.91 (47.61164d) Equinox: J2000</td> <td>Proper Motion RA: -7.905 mas/yr Proper Motion Dec: 1.569 mas/yr Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(2)	P177-D	RA: 15 59 13.5790 (239.8065792d) Dec: +47 36 41.91 (47.61164d) Equinox: J2000	Proper Motion RA: -7.905 mas/yr Proper Motion Dec: 1.569 mas/yr Epoch of Position: 2015.5		Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. aka GSC 03493-00432, 2MASS J15591357+4736419 Need to get proper motion data for this target. DONE, JStans. Used epoch 2015.5 for the PM, as indicated in the GAIA 2018 catalog reference. Category=Calibration Description=[G stars, Photometric]																																					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																												
(2)	P177-D	RA: 15 59 13.5790 (239.8065792d) Dec: +47 36 41.91 (47.61164d) Equinox: J2000	Proper Motion RA: -7.905 mas/yr Proper Motion Dec: 1.569 mas/yr Epoch of Position: 2015.5																																														
Template	Module				Subarray																																												
	B				SUB64P																																												
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Dither Type</th> <th>Primary Dithers</th> <th>Subpixel Dither Type</th> <th>Dither Size</th> <th>Subpixel Positions</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SUBARRAY_DITHER</td> <td>3</td> <td>STANDARD</td> <td></td> <td>1</td> </tr> </tbody> </table>	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions	1	SUBARRAY_DITHER	3	STANDARD		1																																				
	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions																																											
1	SUBARRAY_DITHER	3	STANDARD		1																																												
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 Integrations</th> <th>Total Dithers</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F090W</td> <td>F277W</td> <td>RAPID</td> <td>2</td> <td>2</td> <td>6</td> <td>3</td> <td>0.918</td> <td></td> </tr> <tr> <td>2</td> <td>F115W</td> <td>F444W</td> <td>RAPID</td> <td>2</td> <td>3</td> <td>9</td> <td>3</td> <td>1.377</td> <td></td> </tr> <tr> <td>3</td> <td>F150W</td> <td>F250M</td> <td>RAPID</td> <td>2</td> <td>3</td> <td>9</td> <td>3</td> <td>1.377</td> <td></td> </tr> </tbody> </table>	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	1	F090W	F277W	RAPID	2	2	6	3	0.918		2	F115W	F444W	RAPID	2	3	9	3	1.377		3	F150W	F250M	RAPID	2	3	9	3	1.377									
	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID																																							
	1	F090W	F277W	RAPID	2	2	6	3	0.918																																								
	2	F115W	F444W	RAPID	2	3	9	3	1.377																																								
3	F150W	F250M	RAPID	2	3	9	3	1.377																																									

Proposal 1074 - Observation 100 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	<p>Proposal 1074, Observation 100: P177D Sub160P Module B</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p>									
Diagnostics	(Visit 100:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(2)	P177-D	RA: 15 59 13.5790 (239.8065792d) Dec: +47 36 41.91 (47.61164d) Equinox: J2000		Proper Motion RA: -7.905 mas/yr Proper Motion Dec: 1.569 mas/yr Epoch of Position: 2015.5					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. aka GSC 03493-00432, 2MASS J15591357+4736419</i></p> <p><i>Need to get proper motion data for this target. DONE, JStans. Used epoch 2015.5 for the PM, as indicated in the GAIA 2018 catalog reference. Category=Calibration Description=[G stars, Photometric]</i></p>									
Template	Module				Subarray					
	B				SUB160P					
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions			
	1	NONE			STANDARD		3			
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F070W	F356W	RAPID	3	2	6	3	6.718	
	2	F115W	F444W	RAPID	2	3	9	3	7.569	
	3	F150W	F277W	RAPID	2	3	9	3	7.569	
	4	F200W	F410M	RAPID	3	2	6	3	6.718	
Special Requirements	Offset 0.0 arcsec, -0.5 arcsec									

Proposal 1074 - Observation 101 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	<p>Proposal 1074, Observation 101: P177D Sub160 Module A</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Engineering Imaging</p>											
Diagnostics	(Visit 101:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(2)	P177-D	RA: 15 59 13.5790 (239.8065792d) Dec: +47 36 41.91 (47.61164d) Equinox: J2000			Proper Motion RA: -7.905 mas/yr Proper Motion Dec: 1.569 mas/yr Epoch of Position: 2015.5						
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. aka GSC 03493-00432, 2MASS J15591357+4736419</i></p> <p><i>Need to get proper motion data for this target. DONE, JStans. Used epoch 2015.5 for the PM, as indicated in the GAIA 2018 catalog reference. Category=Calibration Description=[G stars, Photometric]</i></p>											
Template	Module					Subarray						
	A					SUB160						
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions		
	1	NONE				STANDARD				3		
Spectral Elements	#	Short Pupil	Long Pupil	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	CLEAR	CLEAR	F070W	F356W	RAPID	3	2	6	3	6.718	
	2	CLEAR	CLEAR	F115W	F444W	RAPID	2	3	9	3	7.569	
	3	CLEAR	CLEAR	F150W	F277W	RAPID	2	3	9	3	7.569	
	4	CLEAR	CLEAR	F200W	F410M	RAPID	3	2	6	3	6.718	
Special Requirements	Offset 3.2 arcsec, -3.6 arcsec											

Proposal 1074 - Observation 102 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	<p>Proposal 1074, Observation 102: WD1057+719 Sub400P Module B</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p>									
Diagnostics	(Visit 102:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(6)	WD1057+719	RA: 11 00 34.2433 (165.1426804d) Dec: +71 38 2.92 (71.63414d) Equinox: J2000		Proper Motion RA: -0.009234331599978586 sec of time/yr Proper Motion Dec: -0.021751999906882702 arcsec/yr Epoch of Position: 2015.5					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Photometric]</i></p>									
Template	Module				Subarray					
	B				SUB400P					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions
	1	NONE				STANDARD				3
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F090W	F277W	RAPID	3	2	6	3	39.873	
	2	F200W	F444W	RAPID	4	2	6	3	49.81	
Special Requirements	Guide Star in Guider 2									

Proposal 1074 - Observation 103 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	<p>Proposal 1074, Observation 103: SKIP WD1057+719 Sub320 Module A</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Engineering Imaging</p>											
Diagnostics	(Visit 103:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(6)	WD1057+719	RA: 11 00 34.2433 (165.1426804d) Dec: +71 38 2.92 (71.63414d) Equinox: J2000			Proper Motion RA: -0.009234331599978586 sec of time/yr Proper Motion Dec: -0.021751999906882702 arcsec/yr Epoch of Position: 2015.5						
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Photometric]</i></p>											
Template	Module					Subarray						
	A					SUB320						
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions		
	1	NONE				STANDARD				3		
Spectral Elements	#	Short Pupil	Long Pupil	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	CLEAR	CLEAR	F090W	F277W	RAPID	3	2	6	3	25.78	
	2	CLEAR	CLEAR	F200W	F444W	RAPID	5	2	6	3	38.608	
Special Requirements	Offset 5.0 arcsec, -5.0 arcsec											

Proposal 1074 - Observation 104 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	<p>Proposal 1074, Observation 104: P177D Sub160 ModA (SW A4, A2), med filters</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Engineering Imaging</p>											
Diagnostics	(Visit 104:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(2)	P177-D	RA: 15 59 13.5790 (239.8065792d) Dec: +47 36 41.91 (47.61164d) Equinox: J2000			Proper Motion RA: -7.905 mas/yr Proper Motion Dec: 1.569 mas/yr Epoch of Position: 2015.5						
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. aka GSC 03493-00432, 2MASS J15591357+4736419</i></p> <p><i>Need to get proper motion data for this target. DONE, JStans. Used epoch 2015.5 for the PM, as indicated in the GAIA 2018 catalog reference. Category=Calibration Description=[G stars, Photometric]</i></p>											
Template	Module					Subarray						
	A					SUB160						
Mosaic	Rows	Columns	Row Overlap %	Column Overlap %	Row shift	Column shift	Tile Order					
	1	2	10.0	35.0	0.0	0.0	DEFAULT					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions		
	1	NONE				STANDARD				3		
Spectral Elements	#	Short Pupil	Long Pupil	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	CLEAR	CLEAR	F070W	F356W	RAPID	3	2	6	3	6.718	
	2	CLEAR	CLEAR	F090W	F250M	RAPID	2	3	9	3	7.569	
	3	CLEAR	CLEAR	F150W	F300M	RAPID	2	3	9	3	7.569	
	4	CLEAR	CLEAR	F200W	F335M	RAPID	2	3	9	3	7.569	

Special Requirements

Offset 0.0 arcsec, 3.6 arcsec

Proposal 1074 - Observation 105 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	<p>Proposal 1074, Observation 105: P177D Sub160P Module B, med filters</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p>									
Diagnostics	(Visit 105:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(2)	P177-D	RA: 15 59 13.5790 (239.8065792d) Dec: +47 36 41.91 (47.61164d) Equinox: J2000			Proper Motion RA: -7.905 mas/yr Proper Motion Dec: 1.569 mas/yr Epoch of Position: 2015.5				
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. aka GSC 03493-00432, 2MASS J15591357+4736419</i></p> <p><i>Need to get proper motion data for this target. DONE, JStans. Used epoch 2015.5 for the PM, as indicated in the GAIA 2018 catalog reference. Category=Calibration Description=[G stars, Photometric]</i></p>									
Template	Module					Subarray				
	B					SUB160P				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size	Subpixel Positions	
	1	NONE				STANDARD			3	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F070W	F356W	RAPID	3	2	6	3	6.718	
	2	F090W	F250M	RAPID	2	3	9	3	7.569	
	3	F150W	F300M	RAPID	2	3	9	3	7.569	
	4	F200W	F335M	RAPID	2	3	9	3	7.569	
Special Requirements	Offset 0.0 arcsec, -0.5 arcsec									

Proposal 1074 - Observation 106 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	<p>Proposal 1074, Observation 106: P177D Sub160P ModB, all filters</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p>									
Diagnostics	(Visit 106:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(2)	P177-D	RA: 15 59 13.5790 (239.8065792d) Dec: +47 36 41.91 (47.61164d) Equinox: J2000		Proper Motion RA: -7.905 mas/yr Proper Motion Dec: 1.569 mas/yr Epoch of Position: 2015.5					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. aka GSC 03493-00432, 2MASS J15591357+4736419</i></p> <p><i>Need to get proper motion data for this target. DONE, JStans. Used epoch 2015.5 for the PM, as indicated in the GAIA 2018 catalog reference. Category=Calibration Description=[G stars, Photometric]</i></p>									
Template	Module				Subarray					
	B				SUB160P					
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions			
	1	SUBARRAY_DITHER		3	STANDARD		1			
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F070W	F356W	RAPID	3	2	6	3	6.718	
	2	F090W	F277W	RAPID	2	2	6	3	5.046	
	3	F115W	F444W	RAPID	2	3	9	3	7.569	
	4	F150W	F250M	RAPID	2	3	9	3	7.569	
	5	F200W	F300M	RAPID	3	2	6	3	6.718	
	6	F140M	F335M	RAPID	3	2	6	3	6.718	
	7	F162M+F150W2	F360M	RAPID	3	2	6	3	6.718	
	8	F182M	F410M	RAPID	3	2	6	3	6.718	
	9	F210M	F430M	RAPID	5	2	6	3	10.062	

Proposal 1074 - Observation 901 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	<p>Proposal 1074, Observation 901: Astrometric field w/ module to module transfer</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p> <p><i>Comments: The timing of this visit is to be 8 to 14 days after CAR-21 (APT 1069).</i></p>																																																										
Diagnostics	<p>(Visit 901:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 901:2) 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 colspan="3">Targ. Coord. Corrections</th> <th colspan="3">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(14)</td> <td>LMC-ASTROMETRIC-FIELD-OFFSET</td> <td>RA: 05 22 14.3312 (80.5597133d) Dec: -69 30 0.60 (-69.50017d) Equinox: J2000</td> <td colspan="3"></td> <td colspan="3"></td> </tr> <tr> <td colspan="9"> <p><i>Comments:</i> Category=Calibration Description=[Astrometric, Photometric]</p> </td> </tr> </tbody> </table>									#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous			(14)	LMC-ASTROMETRIC-FIELD-OFFSET	RA: 05 22 14.3312 (80.5597133d) Dec: -69 30 0.60 (-69.50017d) Equinox: J2000							<p><i>Comments:</i> Category=Calibration Description=[Astrometric, Photometric]</p>																															
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Mosaic	<table border="1"> <thead> <tr> <th>Rows</th> <th>Columns</th> <th>Row Overlap %</th> <th>Column Overlap %</th> <th>Row shift</th> <th>Column shift</th> <th>Tile Order</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2</td> <td>0.0</td> <td>43.27</td> <td>0.0</td> <td>0.0</td> <td>DEFAULT</td> </tr> </tbody> </table>									Rows	Columns	Row Overlap %	Column Overlap %	Row shift	Column shift	Tile Order	1	2	0.0	43.27	0.0	0.0	DEFAULT																																				
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#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID																																																		
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2	F115W	F277W	BRIGHT1	5	1	3	3	289.893																																																			
3	F150W	F356W	BRIGHT1	5	1	3	3	289.893																																																			
4	F200W	F444W	BRIGHT1	5	1	3	3	289.893																																																			
Special Requirements	<p>Group Visits within 53.0 Days Visits Same PA</p>																																																										

Proposal 1074 - Observation 903 - CAR NIRCcam-029 Photometric Zero Points and Stability

Thu May 26 23:00:46 GMT 2022

Observation	Proposal 1074, Observation 903: 2nd Repeat of astrometric field w/ moduled to module transfer Diagnostic Status: Warning Observing Template: NIRCcam Imaging									
Diagnostics	(Visit 903:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 903:2) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous			
	(14)	LMC-ASTROMETRIC-FIELD-OFFSET	RA: 05 22 14.3312 (80.5597133d) Dec: -69 30 0.60 (-69.50017d) Equinox: J2000							
	Comments: Category=Calibration Description=[Astrometric, Photometric]									
Template	Module				Subarray					
	ALL				FULL					
Mosaic	Rows	Columns	Row Overlap %	Column Overlap %	Row shift	Column shift	Tile Order			
	1	2	0.0	43.27	0.0	0.0	DEFAULT			
Dithers	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions				
	1	INTRAMODULE	3	STANDARD		1				
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F070W	F480M	BRIGHT1	5	1	3	3	289.893	
	2	F115W	F277W	BRIGHT1	5	1	3	3	289.893	
	3	F150W	F356W	BRIGHT1	5	1	3	3	289.893	
	4	F200W	F444W	BRIGHT1	5	1	3	3	289.893	
Special Requirements	Group Visits within 53.0 Days Visits Same PA									