



9215 - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

Cycle: 4, Proposal Category: CAL/NIRCAM

INVESTIGATORS

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OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Cycle-4 Wavelength Cal				
	1	F444W+DHS0 DHS Wave-cal all filters	NIRCam Engineering Imaging	(10) eta01-Dor
	2	F322W2+DHS0 DHS Wave-cal all filters	NIRCam Engineering Imaging	(10) eta01-Dor
Cycle-4 Flux Cal p330e				
	3	F444W+DHS0 G-star Flux Cal	NIRCam Engineering Imaging	(5) p330e
	4	F322W2+DHS0 G-star Flux Cal	NIRCam Engineering Imaging	(5) p330e
Cycle-4 Flux Cal A-star				
	5	F444W+DHS0 A-star Flux Cal	NIRCam Engineering Imaging	(4) 2MASS-J17430448+6655015
	6	F322W2+DHS0 A-star Flux Cal	NIRCam Engineering Imaging	(4) 2MASS-J17430448+6655015
Cycle-4 Flux Cal white dwarf				

JWST Proposal 9215 (Created: Monday, March 9, 2026, 2:00:18PM Eastern Standard Time) - Overview

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	7	F444W+DHS0 WD Flux Cal	NIRCam Engineering Imaging	(6) GD-71
	8	F322W2+DHS0 WD Flux Cal	NIRCam Engineering Imaging	(6) GD-71
Cycle-4 DHS Astrometric Cal LMC				
	9	DHS Astrometric Cal - pre-Image	NIRCam Engineering Imaging	(9) LMC-CAL-FIELD
	10	DHS Astrometric CAL	NIRCam Engineering Imaging	(9) LMC-CAL-FIELD

ABSTRACT

Flux and wavelength calibration observations using the new multistriper subarrays and the DHS in NIRCam's SW channel. A flux standard is observed in 3 filters using all subarray configurations to verify consistent calibration in all of them. 2 additional observations are taken using one subarray configuration and the same 3 filters as a stability check. A wavelength calibrator is observed in all allowed SW filters using a single subarray configuration that samples all 8 of the spectra.

OBSERVING DESCRIPTION

These observations will augment the commissioning observations obtained in program 4453.

In particular, they will provide flux-calibration measurements using the G2V star P330e, A5V star 2mass-j17430448, and white dwarf GD-71, as well as a wavelength calibration measurement using A0V star eta-Dor.

Astrometric observations in the LMC are specified, but are placed On-Hold pending discussions with the exoplanets WG.

These flux and wavelength calibration measurements are restricted to the filters F070W, F090W, F150W2, and F200W. Cycle-4 approved GO proposals use only F150W2, but obtaining data in the 3 filters outside the bandpass of F150W2 was judged to be worthwhile after discussion with WMO (J. Valenti, c. 3/12/2025). Exposures in F115W and F150W are excluded for now.

Dark-current calibrations are instead included in cycle-4 program 8758 (CAL-NRC-401, Dark Monitor).

Proposal 9215 - Targets - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	LAWD-52	RA: 13 38 49.2465 (204.7051938d) Dec: +70 17 7.26 (70.28535d) Equinox: J2000	Proper Motion RA: -0.07946163100704791 sec of time/yr Proper Motion Dec: -0.024556000062148087 arcsec/yr Epoch of Position: 2015.5	
<p><i>Comments: Type=DA2.4, K=13.5. STScI calibrator</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Calibration</i> <i>Description=[White dwarfs]</i></p>				
(2)	IRAS-05248-7007	RA: 05 24 20.7521 (81.0864671d) Dec: -70 05 1.60 (-70.08378d) Equinox: J2000	Proper Motion RA: 3.458137752944413E-4 sec of time/yr Proper Motion Dec: 2.45E-4 arcsec/yr Epoch of Position: 2015.5	
<p><i>Comments: PN WC4/5, K=14.5 spectral calibrator</i> <i>aka LHA 120-N 133, 2MASS J05242076-7005015</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Calibration</i> <i>Description=[Planetary nebulae]</i></p>				
(3)	47-Tuc-p6631-position	RA: 00 22 42.8602 (5.6785842d) Dec: -72 03 59.76 (-72.06660d) Equinox: J2000	Proper Motion RA: 5.25 mas/yr Proper Motion Dec: -2.529999915168446 mas/yr Parallax: 2.32E-4" Epoch of Position: 2000	
<p><i>Comments: Cluster for astrometric calibration</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i> <i>Category=Calibration</i> <i>Description=[Aperture location, Astrometric]</i></p>				
(4)	2MASS-J17430448+6655015	RA: 17 43 4.4856 (265.7686900d) Dec: +66 55 1.66 (66.91713d) Equinox: J2000	Proper Motion RA: 1.124 mas/yr Proper Motion Dec: -2.714000083869905 mas/yr Parallax: 5.401000000000001E-4" Epoch of Position: 2000	
<p><i>Comments: A5V, K=12.8 JWST calibrator (even though it's a pulsating variable star).</i> <i>In the CVZ.</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i> <i>Category=Calibration</i> <i>Description=[A stars]</i></p>				

Fixed Targets

Proposal 9215 - Targets - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

(5) p330e RA: 16 31 33.8124 (247.8908850d) Proper Motion RA: -8.882 mas/yr
 Dec: +30 08 46.40 (30.14622d) Proper Motion Dec: -38.70500008815725 mas/yr
 Equinox: J2000 Parallax: 0.0022149"
 Epoch of Position: 2000

Comments: G2V, K=11.4

This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.

*Category=Calibration
 Description=[G stars]*

(6) GD-71 RA: 05 52 27.6199 (88.1150829d) Proper Motion RA: 76.728 mas/yr
 Dec: +15 53 13.23 (15.88701d) Proper Motion Dec: -172.95999998623302 mas/yr
 Equinox: J2000 Parallax: 0.0195638"
 Epoch of Position: 2000

Comments: DA 1.5, K=14.1. Visibility Sept. 16 -- Nov. 5 (in the MAZ), Feb. 2 -- Mar. 23

See also LAWD 52, which was used a lot in p4453.

This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.

*Category=Calibration
 Description=[White dwarfs]*

(7) WR-96 RA: 17 36 24.4548 (264.1018950d) Proper Motion RA: -0.353 mas/yr
 Dec: -32 54 31.44 (-32.90873d) Proper Motion Dec: -1.6179999420273816 mas/yr
 Equinox: J2000 Parallax: 3.115E-4"
 Epoch of Position: 2000

Comments: WC9 type wolf-rayet star with H=7.52

*See emails w/ Nor Pirzkal c. 2025-02-19 and : https://simbad.cds.unistra.fr/simbad/sim-id?Ident=wr96&NbIdent=1&Radius=2&Radius.unit=arcmin&submit=submit*id*

This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.

*Category=Calibration
 Description=[Wavelength]*

(8) 47-Tuc-p6631-DHS-Position RA: 00 23 39.3715 (5.9140479d) Proper Motion RA: 5.25 mas/yr
 Dec: -72 04 20.81 (-72.07245d) Proper Motion Dec: -2.529999915168446 mas/yr
 Equinox: J2000 Parallax: 2.32E-4"
 Epoch of Position: 2000

Comments: Cluster for astrometric calibration

Targeting a star at the edge for 47 Tuc, possibly GES J00233711-7204210 (GAIA) G=13.3

This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.

*Category=Calibration
 Description=[Aperture location, Astrometric]*

Proposal 9215 - Targets - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

(9)	LMC-CAL-FIELD	RA: 05 21 57.6740 (80.4903083d) Dec: -69 29 53.36 (-69.49816d) Equinox: J2000	Proper Motion RA: 1.91 mas/yr Proper Motion Dec: 0.229 mas/yr Epoch of Position: 2000
<p><i>Comments: Coordinates copied from cycle-3 astrom program 6627.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Aperture location, Astrometric]</i></p>			
(10)	eta01-Dor	RA: 06 06 9.3818 (91.5390908d) Dec: -66 02 22.64 (-66.03962d) Equinox: J2000	Proper Motion RA: 13.575 mas/yr Proper Motion Dec: 28.139000000000003 mas/yr Parallax: 0.0095464" Epoch of Position: 2000
<p><i>Comments: AOV, K=5.75, southern CVZ</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[A stars, Wavelength]</i></p>			

Proposal 9215 - Observation 1 - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

Mon Mar 09 19:00:18 GMT 2026

Observation	<p>Proposal 9215, Observation 1: F444W+DHS0 DHS Wave-cal all filters</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Engineering Imaging</p> <p><i>Comments: Offset SR to place the target in the SW SCA gap. Mosaic to refine best offset to achieve that placement. Orient to place spectra from nearby contaminating source (13:38:30, +70:16:17) ~1/2 way between the spectra of the target.</i></p>											
	<p>(F444W+DHS0 DHS Wave-cal all filters (Obs 1)) Warning (Form): The selected fiducial point is not a standard option for the instrument.</p> <p>(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
Diagnosics												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(10)	eta01-Dor	RA: 06 06 9.3818 (91.5390908d) Dec: -66 02 22.64 (-66.03962d) Equinox: J2000			Proper Motion RA: 13.575 mas/yr Proper Motion Dec: 28.139000000000003 mas/yr Parallax: 0.0095464" Epoch of Position: 2000						
<p><i>Comments: A0V, K=5.75, southern CVZ</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[A stars, Wavelength]</i></p>												
Template	Module	Subarray						No. of Output Channels				
	A	SUB260S4_8-SPECTRA						4				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions		
	1	NONE				STANDARD				1		
Spectral Elements	#	Short Pupil	Long Pupil	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID
	1	F164N	F405N	F150W2	F444W	RAPID	3	1	1	1	5.491	
	2	GDHS0	GRISMR	F070W	F444W	RAPID	20	2	2	1	57.482	
	3	GDHS0	GRISMR	F090W	F444W	RAPID	10	2	2	1	30.129	
	4	GDHS0	GRISMR	F115W	F444W	RAPID	10	2	2	1	30.129	
	5	GDHS0	GRISMR	F150W	F444W	RAPID	5	2	2	1	16.453	
	6	GDHS0	GRISMR	F150W2	F444W	RAPID	5	2	2	1	16.453	
	7	GDHS0	GRISMR	F200W	F444W	RAPID	5	2	2	1	16.453	

Proposal 9215 - Observation 1 - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

Special Requirements

Before Date 01-AUG-2026
Fiducial Point Override NRCA5_TADHSTS_SCI_F444W
Group Observations 1, 2 within 3 Days

Proposal 9215 - Observation 2 - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

Mon Mar 09 19:00:18 GMT 2026

Observation	<p>Proposal 9215, Observation 2: F322W2+DHS0 DHS Wave-cal all filters</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Engineering Imaging</p> <p><i>Comments: Offset SR to place the target in the SW SCA gap. Mosaic to refine best offset to achieve that placement. Orient to place spectra from nearby contaminating source (13:38:30, +70:16:17) ~1/2 way between the spectra of the target.</i></p>											
	<p>(F322W2+DHS0 DHS Wave-cal all filters (Obs 2)) Warning (Form): The selected fiducial point is not a standard option for the instrument.</p> <p>(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
Diagnosics												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(10)	eta01-Dor	RA: 06 06 9.3818 (91.5390908d) Dec: -66 02 22.64 (-66.03962d) Equinox: J2000			Proper Motion RA: 13.575 mas/yr Proper Motion Dec: 28.139000000000003 mas/yr Parallax: 0.0095464" Epoch of Position: 2000						
<p><i>Comments: A0V, K=5.75, southern CVZ</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[A stars, Wavelength]</i></p>												
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	A	SUB260S4_8-SPECTRA						4				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions		
	1	NONE				STANDARD				1		
Spectral Elements	#	Short Pupil	Long Pupil	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID
	1	F164N	F323N	F150W2	F322W2	RAPID	3	1	1	1	5.491	
	2	GDHS0	GRISMR	F070W	F322W2	RAPID	20	5	5	1	143.706	
	3	GDHS0	GRISMR	F090W	F322W2	RAPID	10	5	5	1	75.323	
	4	GDHS0	GRISMR	F115W	F322W2	RAPID	10	5	5	1	75.323	
	5	GDHS0	GRISMR	F150W	F322W2	RAPID	5	5	5	1	41.132	
	6	GDHS0	GRISMR	F150W2	F322W2	RAPID	5	10	10	1	82.264	
	7	GDHS0	GRISMR	F200W	F322W2	RAPID	5	30	30	1	246.791	

Proposal 9215 - Observation 2 - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

Special Requirements

Fiducial Point Override NRCA5_TADHSTS_SCI_F322W2

Group Observations 1, 2 within 3 Days

Proposal 9215 - Observation 3 - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

Mon Mar 09 19:00:18 GMT 2026

Observation	Proposal 9215, Observation 3: F444W+DHS0 G-star Flux Cal Diagnostic Status: Warning Observing Template: NIRCcam Engineering Imaging <i>Comments: Offset SR to place the target in the SW SCA gap. Mosaic to refine best offset to achieve that placement. Orient to place spectra from nearby contaminating source (13:38:30, +70:16:17) ~1/2 way between the spectra of the target.</i>																																																																																																											
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	2	GDHS0	GRISMR	F070W	F444W	DHS7	20	20	20	1	3693.065																																																																																																	
	3	GDHS0	GRISMR	F090W	F444W	DHS5	20	15	15	1	1990.238																																																																																																	
	4	GDHS0	GRISMR	F115W	F444W	DHS5	20	15	15	1	1990.238																																																																																																	
	5	GDHS0	GRISMR	F150W	F444W	DHS5	10	15	15	1	964.5																																																																																																	
	6	GDHS0	GRISMR	F150W2	F444W	DHS5	10	15	15	1	964.5																																																																																																	
7	GDHS0	GRISMR	F200W	F444W	DHS5	10	15	15	1	964.5																																																																																																		

Proposal 9215 - Observation 3 - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

Special Requirements

Fiducial Point Override NRCA5_TADHSTS_SCI_F444W

Same V3 PA 3, 4 (Aperture PAs differ)

Proposal 9215 - Observation 4 - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

Mon Mar 09 19:00:18 GMT 2026

Observation	<p>Proposal 9215, Observation 4: F322W2+DHS0 G-star Flux Cal</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Engineering Imaging</p> <p><i>Comments: Offset SR to place the target in the SW SCA gap. Mosaic to refine best offset to achieve that placement. Orient to place spectra from nearby contaminating source (13:38:30, +70:16:17) ~1/2 way between the spectra of the target.</i></p>											
	<p>(F322W2+DHS0 G-star Flux Cal (Obs 4)) Warning (Form): The selected fiducial point is not a standard option for the instrument.</p> <p>(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
Diagnosics												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(5)	p330e	RA: 16 31 33.8124 (247.8908850d) Dec: +30 08 46.40 (30.14622d) Equinox: J2000			Proper Motion RA: -8.882 mas/yr Proper Motion Dec: -38.70500008815725 mas/yr Parallax: 0.0022149" Epoch of Position: 2000						
<p><i>Comments: G2V, K=11.4</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[G stars]</i></p>												
Template	Module	Subarray						No. of Output Channels				
	A	SUB260S4_8-SPECTRA						4				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions		
	1	NONE				STANDARD				1		
Spectral Elements	#	Short Pupil	Long Pupil	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID
	1	CLEAR	CLEAR	F140M	F250M	BRIGHT1	10	1	1	1	27.373	
	2	GDHS0	GRISMR	F070W	F322W2	DHS7	20	20	20	1	3693.065	
	3	GDHS0	GRISMR	F090W	F322W2	DHS5	20	15	15	1	1990.238	
	4	GDHS0	GRISMR	F115W	F322W2	DHS5	20	15	15	1	1990.238	
	5	GDHS0	GRISMR	F150W	F322W2	DHS5	10	15	15	1	964.5	
	6	GDHS0	GRISMR	F150W2	F322W2	DHS5	10	15	15	1	964.5	
	7	GDHS0	GRISMR	F200W	F322W2	DHS5	10	50	50	1	3215.002	

Proposal 9215 - Observation 4 - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

Special Requirements

Fiducial Point Override NRCA5_TADHSTS_SCI_F322W2

Same V3 PA 3, 4 (Aperture PAs differ)

Proposal 9215 - Observation 5 - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

Mon Mar 09 19:00:18 GMT 2026

Observation	<p>Proposal 9215, Observation 5: F444W+DHS0 A-star Flux Cal</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Engineering Imaging</p> <p><i>Comments: Offset SR to place the target in the SW SCA gap. Mosaic to refine best offset to achieve that placement. Orient to place spectra from nearby contaminating source (13:38:30, +70:16:17) ~1/2 way between the spectra of the target.</i></p>											
	<p>(F444W+DHS0 A-star Flux Cal (Obs 5)) Warning (Form): The selected fiducial point is not a standard option for the instrument. (Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
Diagnosics												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(4)	2MASS-J17430448+6655015	RA: 17 43 4.4856 (265.7686900d)	Dec: +66 55 1.66 (66.91713d)	Equinox: J2000	Proper Motion RA: 1.124 mas/yr	Proper Motion Dec: -2.714000083869905 mas/yr	Parallax: 5.401000000000001E-4"	Epoch of Position: 2000			
<p><i>Comments: A5V, K=12.8 JWST calibrator (even though it's a pulsating variable star). In the CVZ.</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Calibration Description=[A stars]</i></p>												
Template	Module	Subarray						No. of Output Channels				
	A	SUB260S4_8-SPECTRA						4				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions		
	1	NONE				STANDARD				1		
Spectral Elements	#	Short Pupil	Long Pupil	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID
	1	CLEAR	CLEAR	F140M	F250M	BRIGHT1	10	1	1	1	27.373	
	2	GDHS0	GRISMR	F070W	F444W	DHS6	20	20	20	1	3173.358	
	3	GDHS0	GRISMR	F090W	F444W	DHS5	20	20	20	1	2653.651	
	4	GDHS0	GRISMR	F115W	F444W	DHS4	20	20	20	1	2133.944	
	5	GDHS0	GRISMR	F150W	F444W	DHS3	20	20	20	1	1614.237	
	6	GDHS0	GRISMR	F150W2	F444W	DHS3	20	20	20	1	1614.237	
	7	GDHS0	GRISMR	F200W	F444W	DHS3	20	20	20	1	1614.237	

Proposal 9215 - Observation 5 - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

Special Requirements

Fiducial Point Override NRCA5_TADHSTS_SCI_F444W

Same V3 PA 5, 6 (Aperture PAs differ)

Proposal 9215 - Observation 6 - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

Mon Mar 09 19:00:18 GMT 2026

Observation	<p>Proposal 9215, Observation 6: F322W2+DHS0 A-star Flux Cal</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Engineering Imaging</p> <p><i>Comments: Offset SR to place the target in the SW SCA gap. Mosaic to refine best offset to achieve that placement. Orient to place spectra from nearby contaminating source (13:38:30, +70:16:17) ~1/2 way between the spectra of the target.</i></p>											
	<p>(F322W2+DHS0 A-star Flux Cal (Obs 6)) Warning (Form): The selected fiducial point is not a standard option for the instrument.</p> <p>(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
Diagnosics												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(4)	2MASS-J17430448+6655015	RA: 17 43 4.4856 (265.7686900d)	Dec: +66 55 1.66 (66.91713d)	Equinox: J2000	Proper Motion RA: 1.124 mas/yr	Proper Motion Dec: -2.714000083869905 mas/yr	Parallax: 5.40100000000001E-4"	Epoch of Position: 2000			
<p><i>Comments: A5V, K=12.8 JWST calibrator (even though it's a pulsating variable star). In the CVZ.</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Calibration Description=[A stars]</i></p>												
Template	Module	Subarray						No. of Output Channels				
	A	SUB260S4_8-SPECTRA						4				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions		
	1	NONE				STANDARD				1		
Spectral Elements	#	Short Pupil	Long Pupil	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID
	1	CLEAR	CLEAR	F140M	F250M	BRIGHT1	10	1	1	1	27.373	
	2	GDHS0	GRISMR	F070W	F322W2	DHS6	20	20	20	1	3173.358	
	3	GDHS0	GRISMR	F090W	F322W2	DHS5	20	20	20	1	2653.651	
	4	GDHS0	GRISMR	F115W	F322W2	DHS4	20	20	20	1	2133.944	
	5	GDHS0	GRISMR	F150W	F322W2	DHS3	20	20	20	1	1614.237	
	6	GDHS0	GRISMR	F150W2	F322W2	DHS3	20	20	20	1	1614.237	
	7	GDHS0	GRISMR	F200W	F322W2	DHS3	20	40	40	1	3228.473	

Proposal 9215 - Observation 6 - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

Special Requirements

Fiducial Point Override NRCA5_TADHSTS_SCI_F322W2

Same V3 PA 5, 6 (Aperture PAs differ)

Proposal 9215 - Observation 7 - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

Mon Mar 09 19:00:18 GMT 2026

Observation	<p>Proposal 9215, Observation 7: F444W+DHS0 WD Flux Cal</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Engineering Imaging</p> <p><i>Comments: Offset SR to place the target in the SW SCA gap. Mosaic to refine best offset to achieve that placement. Orient to place spectra from nearby contaminating source (13:38:30, +70:16:17) ~1/2 way between the spectra of the target.</i></p>											
	<p>(F444W+DHS0 WD Flux Cal (Obs 7)) Warning (Form): The selected fiducial point is not a standard option for the instrument.</p> <p>(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
Diagnosics												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(6)	GD-71	RA: 05 52 27.6199 (88.1150829d) Dec: +15 53 13.23 (15.88701d) Equinox: J2000			Proper Motion RA: 76.728 mas/yr Proper Motion Dec: -172.95999998623302 mas/yr Parallax: 0.0195638" Epoch of Position: 2000						
<p><i>Comments: DA 1.5, K=14.1. Visibility Sept. 16 -- Nov. 5 (in the MAZ), Feb. 2 -- Mar. 23</i></p> <p><i>See also LAWD 52, which was used a lot in p4453.</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Calibration</i> <i>Description=[White dwarfs]</i></p>												
Template	Module	Subarray						No. of Output Channels				
	A	SUB260S4_8-SPECTRA						4				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions		
	1	NONE				STANDARD				1		
Spectral Elements	#	Short Pupil	Long Pupil	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID
	1	CLEAR	CLEAR	F140M	F250M	BRIGHT1	10	1	1	1	27.373	
	2	GDHS0	GRISMR	F150W2	F444W	DHS3	40	50	50	1	8138.542	

Proposal 9215 - Observation 7 - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

Special Requirements

Fiducial Point Override NRCA5_TADHSTS_SCI_F444W

Same Aperture PA 7, 8 (V3 PAs differ)

Proposal 9215 - Observation 8 - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

Mon Mar 09 19:00:18 GMT 2026

Observation	<p>Proposal 9215, Observation 8: F322W2+DHS0 WD Flux Cal</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Engineering Imaging</p> <p><i>Comments: Offset SR to place the target in the SW SCA gap. Mosaic to refine best offset to achieve that placement. Orient to place spectra from nearby contaminating source (13:38:30, +70:16:17) ~1/2 way between the spectra of the target.</i></p>											
	<p>(F322W2+DHS0 WD Flux Cal (Obs 8)) Warning (Form): The selected fiducial point is not a standard option for the instrument.</p> <p>(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
Diagnosics												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(6)	GD-71	RA: 05 52 27.6199 (88.1150829d) Dec: +15 53 13.23 (15.88701d) Equinox: J2000			Proper Motion RA: 76.728 mas/yr Proper Motion Dec: -172.95999998623302 mas/yr Parallax: 0.0195638" Epoch of Position: 2000						
<p><i>Comments: DA 1.5, K=14.1. Visibility Sept. 16 -- Nov. 5 (in the MAZ), Feb. 2 -- Mar. 23</i></p> <p><i>See also LAWD 52, which was used a lot in p4453.</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[White dwarfs]</i></p>												
Template	Module	Subarray						No. of Output Channels				
	A	SUB260S4_8-SPECTRA						4				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions		
	1	NONE				STANDARD				1		
Spectral Elements	#	Short Pupil	Long Pupil	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID
	1	CLEAR	CLEAR	F140M	F250M	BRIGHT1	10	1	1	1	27.373	
	2	GDHS0	GRISMR	F150W2	F322W2	DHS3	40	50	50	1	8138.542	

Proposal 9215 - Observation 8 - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

Special Requirements

Fiducial Point Override NRCA5_TADHSTS_SCI_F322W2

Same Aperture PA 7, 8 (V3 PAs differ)

Proposal 9215 - Observation 9 - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

Mon Mar 09 19:00:18 GMT 2026

Observation	<p>Proposal 9215, Observation 9: DHS Astrometric Cal - pre-Image</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Engineering Imaging</p>											
Diagnostics	<p>(DHS Astrometric Cal - pre-Image (Obs 9)) Warning (Form): The selected fiducial point is not a standard option for the instrument.</p> <p>(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(9)	LMC-CAL-FIELD	RA: 05 21 57.6740 (80.4903083d) Dec: -69 29 53.36 (-69.49816d) Equinox: J2000			Proper Motion RA: 1.91 mas/yr Proper Motion Dec: 0.229 mas/yr Epoch of Position: 2000						
	<p><i>Comments: Coordinates copied from cycle-3 astrom program 6627.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Aperture location, Astrometric]</i></p>											
Template	Module		Subarray				No. of Output Channels					
	A		FULL				4					
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions		
	1	NONE				STANDARD				1		
Spectral Elements	#	Short Pupil	Long Pupil	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID
	1	CLEAR	CLEAR	F150W	F277W	BRIGHT1	5	5	5	1	526.102	
Special Requirements	<p>On Hold On hold pending discussions w/ the TSO WG to see if this calibration is needed.</p> <p>Fiducial Point Override NRCA5_TADHSTS_SCI_F322W2</p>											

Proposal 9215 - Observation 10 - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

Mon Mar 09 19:00:18 GMT 2026

Observation	<p>Proposal 9215, Observation 10: DHS Astrometric CAL</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Engineering Imaging</p>																																														
Diagnostics	<p>(DHS Astrometric CAL (Obs 10)) Warning (Form): Readout patterns with on-board averaged groups are not recommended for use with the DHS subarrays</p> <p>(DHS Astrometric CAL (Obs 10)) Warning (Form): Readout patterns with on-board averaged groups are not recommended for use with the DHS subarrays</p> <p>(DHS Astrometric CAL (Obs 10)) Warning (Form): The selected fiducial point is not a standard option for the instrument.</p> <p>(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																														
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(9)</td> <td>LMC-CAL-FIELD</td> <td>RA: 05 21 57.6740 (80.4903083d) Dec: -69 29 53.36 (-69.49816d) Equinox: J2000</td> <td>Proper Motion RA: 1.91 mas/yr Proper Motion Dec: 0.229 mas/yr Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> <p><i>Comments: Coordinates copied from cycle-3 astrom program 6627.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Calibration</i> <i>Description=[Aperture location, Astrometric]</i></p>											#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(9)	LMC-CAL-FIELD	RA: 05 21 57.6740 (80.4903083d) Dec: -69 29 53.36 (-69.49816d) Equinox: J2000	Proper Motion RA: 1.91 mas/yr Proper Motion Dec: 0.229 mas/yr Epoch of Position: 2000																											
#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																											
(9)	LMC-CAL-FIELD	RA: 05 21 57.6740 (80.4903083d) Dec: -69 29 53.36 (-69.49816d) Equinox: J2000	Proper Motion RA: 1.91 mas/yr Proper Motion Dec: 0.229 mas/yr Epoch of Position: 2000																																												
Template	<table border="1"> <thead> <tr> <th>Module</th> <th>Subarray</th> <th>No. of Output Channels</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>SUB260S4_8-SPECTRA</td> <td>4</td> </tr> </tbody> </table>											Module	Subarray	No. of Output Channels	A	SUB260S4_8-SPECTRA	4																														
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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 (deg)</th> <th>Column shift (deg)</th> <th>Tile Order</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>1</td> <td>10.0</td> <td>10.0</td> <td>0.0</td> <td>0.0</td> <td>DEFAULT</td> </tr> </tbody> </table>											Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order	2	1	10.0	10.0	0.0	0.0	DEFAULT																						
Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order																																									
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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>NONE</td> <td></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	NONE		STANDARD		1																								
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Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Short Pupil</th> <th>Long Pupil</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>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CLEAR</td> <td>CLEAR</td> <td>F150W</td> <td>F277W</td> <td>MEDIUM2</td> <td>5</td> <td>10</td> <td>10</td> <td>1</td> <td>588.294</td> <td></td> </tr> <tr> <td>2</td> <td>GDHS0</td> <td>GRISMR</td> <td>F140M</td> <td>F410M</td> <td>MEDIUM2</td> <td>10</td> <td>20</td> <td>20</td> <td>1</td> <td>2544.239</td> <td></td> </tr> </tbody> </table>											#	Short Pupil	Long Pupil	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID	1	CLEAR	CLEAR	F150W	F277W	MEDIUM2	5	10	10	1	588.294		2	GDHS0	GRISMR	F140M	F410M	MEDIUM2	10	20	20	1	2544.239	
#	Short Pupil	Long Pupil	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID																																				
1	CLEAR	CLEAR	F150W	F277W	MEDIUM2	5	10	10	1	588.294																																					
2	GDHS0	GRISMR	F140M	F410M	MEDIUM2	10	20	20	1	2544.239																																					

Proposal 9215 - Observation 10 - CAL-NRC-426 Calibration of DHS Time Series using Multistripe Subarrays

Special Requirements

On Hold On hold pending discussions w/ the TSO WG to see if this calibration is needed.
Fiducial Point Override NRCA5_TADHSTS_SCI_F322W2