



12563 - CAL-NIS-505: NIRISS Stability Monitoring

Cycle: 5, Proposal Category: CAL/NIRISS

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1		NIRISS External Calibration	(1) ASTROMETRIC-FIELD
	2		NIRISS External Calibration	(1) ASTROMETRIC-FIELD
	3		NIRISS External Calibration	(1) ASTROMETRIC-FIELD
	4		NIRISS External Calibration	(1) ASTROMETRIC-FIELD
	5		NIRISS External Calibration	(1) ASTROMETRIC-FIELD
	6		NIRISS External Calibration	(1) ASTROMETRIC-FIELD

ABSTRACT

We request bi-monthly observations of the LMC astrometric field for monitoring of the NIRISS photometric stability and as a quick check on the astrometric stability of the instrument. This is a continuation of cycle 1 calibration program 1515, cycle 2 program 4475, cycle 3 program 6655, and cycle 4 program 9283.

This calibration program may change in response to system developments and the final Cycle 5 science program.

OBSERVING DESCRIPTION

The astrometric field is to be observed at a single pointing in the F200W filter 6 times during cycle 5, to monitor the photometric response of NIRISS in this filter. The observations are intended to detect any time variation of the NIRISS total response in this filter via measurements of many stars in the field in each observation. Stars are detected at different positions on the detector for each observation depending on the roll angle, so this is also a test of the photometric repeatability across the detector at different positions.

Proposal 12563 - Targets - CAL-NIS-505: NIRISS Stability Monitoring

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
	(1)	ASTROMETRIC-FIELD	RA: 05 21 56.5000 (80.4854167d) Dec: -69 29 54.10 (-69.49836d) Equinox: J2000	Parallax: 0.0" Epoch of Position: 2000.0	
Comments: Category=Calibration Description=[Astrometric] Extended=NO					

Proposal 12563 - Observation 1 - CAL-NIS-505: NIRISS Stability Monitoring

Observation	Proposal 12563, Observation 1											Mon Mar 09 18:02:03 GMT 2026
	Diagnostic Status: Warning											
	Observing Template: NIRISS External Calibration											
Diagnostics	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous		
	(1)	ASTROMETRIC-FIELD	RA: 05 21 56.5000 (80.4854167d) Dec: -69 29 54.10 (-69.49836d) Equinox: J2000				Parallax: 0.0" Epoch of Position: 2000.0					
	Comments: Category=Calibration Description=[Astrometric] Extended=NO											
Acquisition	#	Target										
	1	NONE										
Template	Pointing Type											
	PRIME											
Dithers	#	Pattern Type	Image Dithers			Primary Dithers		Subpixel Positions		Pattern Size		
	1	IMAGING	4									
Spectral Elements	#	Subarray	Aperture	Filter Wheel	Pupil Wheel	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
	1	FULL	DEFAULT APERTURE	CLEAR	F200W	NISRAPID	12	1	4	4	558.312	

Proposal 12563 - Observation 1 - CAL-NIS-505: NIRISS Stability Monitoring

Special Requirements	Between Dates 01-JUL-2026 and 31-JUL-2026
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Proposal 12563 - Observation 2 - CAL-NIS-505: NIRISS Stability Monitoring

Observation	Proposal 12563, Observation 2											Mon Mar 09 18:02:03 GMT 2026
	Diagnostic Status: Warning											
Observing Template: NIRISS External Calibration												
Diagnostics	(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous		
	(1)	ASTROMETRIC-FIELD	RA: 05 21 56.5000 (80.4854167d) Dec: -69 29 54.10 (-69.49836d) Equinox: J2000				Parallax: 0.0" Epoch of Position: 2000.0					
	Comments: Category=Calibration Description=[Astrometric] Extended=NO											
Acquisition	#											Target
	1											NONE
Template	Pointing Type											
	PRIME											
Dithers	#	Pattern Type		Image Dithers		Primary Dithers		Subpixel Positions		Pattern Size		
	1	IMAGING		4								
Spectral Elements	#	Subarray	Aperture	Filter Wheel	Pupil Wheel	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
	1	FULL	DEFAULT APERTURE	CLEAR	F200W	NISRAPID	12	1	4	4	558.312	

Proposal 12563 - Observation 2 - CAL-NIS-505: NIRISS Stability Monitoring

Special Requirements	Between Dates 01-SEP-2026 and 30-SEP-2026
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Proposal 12563 - Observation 3 - CAL-NIS-505: NIRISS Stability Monitoring

Observation	Proposal 12563, Observation 3											Mon Mar 09 18:02:03 GMT 2026
	Diagnostic Status: Warning											
Observing Template: NIRISS External Calibration												
Diagnostics	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous		
	(1)	ASTROMETRIC-FIELD	RA: 05 21 56.5000 (80.4854167d) Dec: -69 29 54.10 (-69.49836d) Equinox: J2000				Parallax: 0.0" Epoch of Position: 2000.0					
	Comments: Category=Calibration Description=[Astrometric] Extended=NO											
Acquisition	#											Target
	1											NONE
Template	Pointing Type											
	PRIME											
Dithers	#	Pattern Type		Image Dithers		Primary Dithers		Subpixel Positions		Pattern Size		
	1	IMAGING		4								
Spectral Elements	#	Subarray	Aperture	Filter Wheel	Pupil Wheel	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
	1	FULL	DEFAULT APERTURE	CLEAR	F200W	NISRAPID	12	1	4	4	558.312	

Proposal 12563 - Observation 3 - CAL-NIS-505: NIRISS Stability Monitoring

Special Requirements	Between Dates 01-NOV-2026 and 30-NOV-2026
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Proposal 12563 - Observation 4 - CAL-NIS-505: NIRISS Stability Monitoring

Observation	Proposal 12563, Observation 4											Mon Mar 09 18:02:03 GMT 2026	
	Diagnostic Status: Warning												
Observing Template: NIRISS External Calibration													
Diagnostics	(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(1)	ASTROMETRIC-FIELD	RA: 05 21 56.5000 (80.4854167d)				Parallax: 0.0"						
			Dec: -69 29 54.10 (-69.49836d)				Epoch of Position: 2000.0						
			Equinox: J2000										
Acquisition	Comments: Category=Calibration Description=[Astrometric] Extended=NO												
	#						Target						
	1						NONE						
Template	Pointing Type												
	PRIME												
Dithers	#	Pattern Type		Image Dithers		Primary Dithers		Subpixel Positions		Pattern Size			
	1	IMAGING		4									
Spectral Elements	#	Subarray	Aperture	Filter Wheel	Pupil Wheel	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID	
	1	FULL	DEFAULT APERTURE	CLEAR	F200W	NISRAPID	12	1	4	4	558.312		

Proposal 12563 - Observation 4 - CAL-NIS-505: NIRISS Stability Monitoring

Special Requirements	Between Dates 01-JAN-2027 and 31-JAN-2027
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Proposal 12563 - Observation 5 - CAL-NIS-505: NIRISS Stability Monitoring

Observation	Proposal 12563, Observation 5											Mon Mar 09 18:02:03 GMT 2026
	Diagnostic Status: Warning											
Observing Template: NIRISS External Calibration												
Diagnostics	(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous		
	(1)	ASTROMETRIC-FIELD	RA: 05 21 56.5000 (80.4854167d) Dec: -69 29 54.10 (-69.49836d) Equinox: J2000				Parallax: 0.0" Epoch of Position: 2000.0					
	Comments: Category=Calibration Description=[Astrometric] Extended=NO											
Acquisition	#											Target
	1											NONE
Template	Pointing Type											
	PRIME											
Dithers	#	Pattern Type	Image Dithers			Primary Dithers		Subpixel Positions		Pattern Size		
	1	IMAGING	4									
Spectral Elements	#	Subarray	Aperture	Filter Wheel	Pupil Wheel	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
	1	FULL	DEFAULT APERTURE	CLEAR	F200W	NISRAPID	12	1	4	4	558.312	

Proposal 12563 - Observation 5 - CAL-NIS-505: NIRISS Stability Monitoring

Special Requirements	Between Dates 01-MAR-2027 and 31-MAR-2027
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Proposal 12563 - Observation 6 - CAL-NIS-505: NIRISS Stability Monitoring

Observation	Proposal 12563, Observation 6											Mon Mar 09 18:02:03 GMT 2026
	Diagnostic Status: Warning											
Observing Template: NIRISS External Calibration												
Diagnostics	(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous		
	(1)	ASTROMETRIC-FIELD	RA: 05 21 56.5000 (80.4854167d) Dec: -69 29 54.10 (-69.49836d) Equinox: J2000				Parallax: 0.0" Epoch of Position: 2000.0					
	Comments: Category=Calibration Description=[Astrometric] Extended=NO											
Acquisition	#	Target										
	1	NONE										
Template	Pointing Type											
	PRIME											
Dithers	#	Pattern Type	Image Dithers			Primary Dithers		Subpixel Positions		Pattern Size		
	1	IMAGING	4									
Spectral Elements	#	Subarray	Aperture	Filter Wheel	Pupil Wheel	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
	1	FULL	DEFAULT APERTURE	CLEAR	F200W	NISRAPID	12	1	4	4	558.312	

Proposal 12563 - Observation 6 - CAL-NIS-505: NIRISS Stability Monitoring

Special Requirements	Between Dates 01-MAY-2027 and 31-MAY-2027
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