



1512 - SOSS Wavelength and Trace

Cycle: 1, Proposal Category: CAL/NIRISS

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
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Dr. Swara Ravindranath (CoI)	Space Telescope Science Institute - CSA - JWST	swara@stsci.edu
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Dr. Kevin Volk (CoI) (Contact)	Space Telescope Science Institute - CSA - JWST	volk@stsci.edu

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1		NIRISS External Calibration	(3) BD+60-1753
	2		NIRISS External Calibration	(3) BD+60-1753
	3		NIRISS External Calibration	(3) BD+60-1753
	4		NIRISS External Calibration	(3) BD+60-1753
	5		NIRISS External Calibration	(3) BD+60-1753
	6		NIRISS External Calibration	(3) BD+60-1753
	7		NIRISS External Calibration	(3) BD+60-1753
	8		NIRISS External Calibration	(3) BD+60-1753
	9		NIRISS External Calibration	(3) BD+60-1753
	10		NIRISS External Calibration	(3) BD+60-1753

ABSTRACT

Observations of a bright star of known spectral type in the continuous viewing zone will be used to determine the GR700XD dispersion solution and the "standard" trace position for the NIRISS SOSS mode.

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

OBSERVING DESCRIPTION

Observations of either an A0V star or an M5V star will be used to determine the NIRISS GR700XD wavelength solution for first and second order. In addition the "standard" trace positions will be measured from these observations. Exposures will be made in the normal SOSS mode and also with the F277W filter. The latter observations provide the first-order trace at long wavelengths without contamination from second-order, and this will aid in the separation of the orders in the data reduction.

Ideally only one of the two targets needs to be observed at any given time. Both targets are in the continuous viewing zone. It is assumed that this calibration needs to be repeated four times in cycle 1. The current plan is to observe the M-type star G240-52 four times and the A-type star will not be observed. The A-type star is present as a contingency in case we find problems with using an M-type star for this purpose during commissioning.

TIMING CONSTRAINTS

Each observation after the first is requested to take place after an interval of between 75 and 105 days from the previous observation. The first observation should be taken within the first 6 weeks of cycle 1, assuming a start date of 20 June 2022. The subsequent windows are more uncertain, but all four observations should be completed by the end of cycle 1.

Proposal 1512 - Targets - SOSS Wavelength and Trace

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	
(1)	G-240-52	RA: 17 15 4.7300 (258.7697083d) Dec: +66 52 59.10 (66.88308d) Equinox: J2000	Proper Motion RA: -176.955 mas/yr Proper Motion Dec: -301.928 mas/yr Parallax: 0.0337088" Epoch of Position: 2018.0		
Fixed Targets	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[M dwarfs] Extended=NO				
	(2)	TYC-4226-663-1	RA: 18 30 55.2871 (277.7303629d) Dec: +67 19 18.04 (67.32168d) Equinox: J2000	Proper Motion RA: -176.955 mas/yr Proper Motion Dec: -301.928 mas/yr Parallax: 0.0337088" Epoch of Position: 2018.0	
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[A stars]				
(3)	BD+60-1753	RA: 17 24 52.2856 (261.2178567d) Dec: +60 25 50.81 (60.43078d) Equinox: J2000	Proper Motion RA: 6.608917113115078E-4 sec of time/yr Proper Motion Dec: 0.003759 arcsec/yr Epoch of Position: 2015.5		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[A dwarfs] Extended=NO					

Proposal 1512 - Observation 1 - SOSS Wavelength and Trace

Wed Nov 02 23:00:26 GMT 2022

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Proposal 1512 - Observation 1 - SOSS Wavelength and Trace

Special Requirements

Between Dates 02-NOV-2022:00:00:00 and 28-FEB-2023:00:00:00

Group Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, Non-interruptible

Proposal 1512 - Observation 2 - SOSS Wavelength and Trace

Wed Nov 02 23:00:26 GMT 2022

Observation	Proposal 1512, Observation 2 Diagnostic Status: Warning Observing Template: NIRISS External Calibration																																														
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Proposal 1512 - Observation 2 - SOSS Wavelength and Trace

Special Requirements

Group Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, Non-interruptible

Proposal 1512 - Observation 3 - SOSS Wavelength and Trace

Wed Nov 02 23:00:26 GMT 2022

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Proposal 1512 - Observation 3 - SOSS Wavelength and Trace

Special Requirements

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Proposal 1512 - Observation 4 - SOSS Wavelength and Trace

Wed Nov 02 23:00:26 GMT 2022

Observation	Proposal 1512, Observation 4 Diagnostic Status: Warning Observing Template: NIRISS External Calibration											
	(Observation 4) Warning (Form): NGROUPS=1 may suffer from low calibration accuracy. (Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
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Proposal 1512 - Observation 4 - SOSS Wavelength and Trace

Special Requirements

Group Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, Non-interruptible

Proposal 1512 - Observation 5 - SOSS Wavelength and Trace

Wed Nov 02 23:00:26 GMT 2022

Observation	Proposal 1512, Observation 5 Diagnostic Status: Warning Observing Template: NIRISS External Calibration																																														
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Proposal 1512 - Observation 5 - SOSS Wavelength and Trace

Special Requirements

Group Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, Non-interruptible

Proposal 1512 - Observation 6 - SOSS Wavelength and Trace

Wed Nov 02 23:00:26 GMT 2022

Observation	Proposal 1512, Observation 6 Diagnostic Status: Warning Observing Template: NIRISS External Calibration																																														
	(Observation 6) Warning (Form): NGROUPS=1 may suffer from low calibration accuracy. (Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																														
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Proposal 1512 - Observation 6 - SOSS Wavelength and Trace

Special Requirements

Group Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, Non-interruptible

Proposal 1512 - Observation 7 - SOSS Wavelength and Trace

Wed Nov 02 23:00:26 GMT 2022

Observation	Proposal 1512, Observation 7 Diagnostic Status: Warning Observing Template: NIRISS External Calibration																																														
	(Observation 7) Warning (Form): NGROUPS=1 may suffer from low calibration accuracy. (Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																														
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Proposal 1512 - Observation 7 - SOSS Wavelength and Trace

Special Requirements

Group Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, Non-interruptible

Proposal 1512 - Observation 8 - SOSS Wavelength and Trace

Wed Nov 02 23:00:26 GMT 2022

Observation	Proposal 1512, Observation 8 Diagnostic Status: Warning Observing Template: NIRISS External Calibration											
	(Observation 8) Warning (Form): NGROUPS=1 may suffer from low calibration accuracy. (Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(3)	BD+60-1753	RA: 17 24 52.2856 (261.2178567d) Dec: +60 25 50.81 (60.43078d) Equinox: J2000			Proper Motion RA: 6.608917113115078E-4 sec of time/yr Proper Motion Dec: 0.003759 arcsec/yr Epoch of Position: 2015.5						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[A dwarfs] Extended=NO												
Acquisition	#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID		
	1	3 BD+60-1753	SOSSFAINT	F480M	NISRAPID	15	1	1	0.748	21977		
Template	Pointing Type											
	PRIME											
Dithers	#	Pattern Type	Image Dithers			Primary Dithers		Subpixel Positions		Pattern Size		
	1	NONE										
Spectral Elements	#	Subarray	Aperture	Filter Wheel	Pupil Wheel	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SUBSTRIP256	DEFAULT APERTURE	CLEAR	GR700XD	NISRAPID	1	1	1	1	11.008	
	2	SUBSTRIP256	DEFAULT APERTURE	CLEAR	GR700XD	NISRAPID	3	10	1	10	219.965	

Proposal 1512 - Observation 8 - SOSS Wavelength and Trace

Special Requirements

Group Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, Non-interruptible

Proposal 1512 - Observation 9 - SOSS Wavelength and Trace

Wed Nov 02 23:00:26 GMT 2022

Observation	Proposal 1512, Observation 9 Diagnostic Status: Warning Observing Template: NIRISS External Calibration											
	(Observation 9) Warning (Form): NGROUPS=1 may suffer from low calibration accuracy. (Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(3)	BD+60-1753	RA: 17 24 52.2856 (261.2178567d) Dec: +60 25 50.81 (60.43078d) Equinox: J2000			Proper Motion RA: 6.608917113115078E-4 sec of time/yr Proper Motion Dec: 0.003759 arcsec/yr Epoch of Position: 2015.5						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[A dwarfs] Extended=NO												
Acquisition	#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID		
	1	3 BD+60-1753	SOSSFAINT	F480M	NISRAPID	15	1	1	0.748	21977		
Template	Pointing Type											
	PRIME											
Dithers	#	Pattern Type	Image Dithers			Primary Dithers		Subpixel Positions		Pattern Size		
	1	NONE										
Spectral Elements	#	Subarray	Aperture	Filter Wheel	Pupil Wheel	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SUBSTRIP256	DEFAULT APERTURE	CLEAR	GR700XD	NISRAPID	1	1	1	1	11.008	
	2	SUBSTRIP256	DEFAULT APERTURE	CLEAR	GR700XD	NISRAPID	3	10	1	10	219.965	

Proposal 1512 - Observation 9 - SOSS Wavelength and Trace

Special Requirements

Group Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, Non-interruptible

Proposal 1512 - Observation 10 - SOSS Wavelength and Trace

Wed Nov 02 23:00:26 GMT 2022

Observation	<p>Proposal 1512, Observation 10</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRISS External Calibration</p>											
Diagnostics	<p>(Observation 10) Warning (Form): NGROUPS=1 may suffer from low calibration accuracy.</p> <p>(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(3)	BD+60-1753	RA: 17 24 52.2856 (261.2178567d) Dec: +60 25 50.81 (60.43078d) Equinox: J2000			Proper Motion RA: 6.608917113115078E-4 sec of time/yr Proper Motion Dec: 0.003759 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=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p>											
Acquisition	#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID		
	1	3 BD+60-1753	SOSSFAINT	F480M	NISRAPID	15	1	1	0.748	21977		
Template	<p>Pointing Type</p> <p>PRIME</p>											
Dithers	#	Pattern Type	Image Dithers			Primary Dithers		Subpixel Positions		Pattern Size		
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Spectral Elements	#	Subarray	Aperture	Filter Wheel	Pupil Wheel	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SUBSTRIP256	DEFAULT APERTURE	CLEAR	GR700XD	NISRAPID	1	1	1	1	11.008	
	2	SUBSTRIP256	DEFAULT APERTURE	CLEAR	GR700XD	NISRAPID	3	10	1	10	219.965	

Proposal 1512 - Observation 10 - SOSS Wavelength and Trace

Special Requirements

Group Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, Non-interruptible