



6645 - CAL-NRS-320: IFU F-Flats

Cycle: 3, Proposal Category: CAL/NIRSPEC

INVESTIGATORS

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OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Gratings				
	1	Aperture edges	NIRSpec IFU Spectroscopy	(3) P330-E
	3	Center	NIRSpec IFU Spectroscopy	(3) P330-E
PRISM				
	8	Aperture edges	NIRSpec IFU Spectroscopy	(2) SNAP2
	7	Center	NIRSpec IFU Spectroscopy	(2) SNAP2

ABSTRACT

This program is intended to expand the flux calibration of the IFU mode (F-Flats) into the chip gaps as far as possible. For that we request standard star observations in the center of the IFU as well as in two corners of the IFU aperture, such that all slices are covered.

This calibration program may change in response to system developments and the final Cycle 3 science program.

OBSERVING DESCRIPTION

This program is intended to cover most slices of the NIRSpec IFU with spectrophotometric standard stars in order to close the chip gap of our F-Flats as much as instrumentally possible. Furthermore, these observations will be used to improve our current F-Flats.

JWST Proposal 6645 (Created: Friday, February 14, 2025, 2:00:16PM Eastern Standard Time) - Overview

Two different spectrophotometric standards are requested because the PRSIM requires a fainter source due to saturation.

The offsets are provisional and might be adjusted if needed to properly cover the corner of the aperture without impacting the PSF.

Proposal 6645 - Targets - CAL-NRS-320: IFU F-Flats

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
	(2)	SNAP2	RA: 16 19 46.1030 (244.9420958d) Dec: +55 34 17.86 (55.57163d) Equinox: J2000	Proper Motion RA: -2.929 mas/yr Proper Motion Dec: -10.887000075854303 mas/yr Parallax: 5.535E-4" Epoch of Position: 2000	
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Calibration Description=[External flat field, G stars, Spectrophotometric] Extended=NO				
(3)	P330-E	RA: 16 31 33.8052 (247.8908550d) Dec: +30 08 45.54 (30.14598d) Equinox: J2000	Proper Motion RA: -8.882 mas/yr Proper Motion Dec: -38.70500008815725 mas/yr Parallax: 0.0022149" Epoch of Position: 2000		
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Calibration Description=[External flat field, G stars, Spectrophotometric] Extended=NO				

Proposal 6645 - Observation 1 - CAL-NRS-320: IFU F-Flats

Fri Feb 14 19:00:16 GMT 2025

Observation	<p>Proposal 6645, Observation 1: Aperture edges Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy</p>										
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		
	(3)	P330-E	RA: 16 31 33.8052 (247.8908550d) Dec: +30 08 45.54 (30.14598d) 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: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Calibration</i> <i>Description=[External flat field, G stars, Spectrophotometric]</i> <i>Extended=NO</i></p>										
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	SUB32	F110W	NRSRAPID	3	1	1	0.08	109288
Template	HFF Readout Mode										
	false										
Mosaic	Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order				
	1	2	10.0	60.525	0.0	0.0	DEFAULT				
Dithers	#	Dither Type	Size	Starting Point	Number of Points	Points					
	1	CYCLING	SMALL	1	4						

Proposal 6645 - Observation 1 - CAL-NRS-320: IFU F-Flats

Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G140H/F070LP	NRSIRS2RAPI D	9	1	false	true	NONE	4	4	583.556	
	2	G140H/F100LP	NRSIRS2RAPI D	9	1	false	true	NONE	4	4	583.556	
	3	G235H/F170LP	NRSIRS2RAPI D	13	1	false	true	NONE	4	4	816.978	
	4	G395H/F290LP	NRSIRS2RAPI D	25	2	false	true	NONE	4	8	3034.489	
	5	G140M/F070LP	NRSIRS2RAPI D	4	1	false	true	NONE	4	4	291.778	
	6	G140M/F100LP	NRSIRS2RAPI D	4	1	false	true	NONE	4	4	291.778	
	7	G235M/F170LP	NRSIRS2RAPI D	6	1	false	true	NONE	4	4	408.489	
8	G395M/F290LP	NRSIRS2RAPI D	18	1	false	true	NONE	4	4	1108.756		

Proposal 6645 - Observation 3 - CAL-NRS-320: IFU F-Flats

Fri Feb 14 19:00:16 GMT 2025

Observation	<p>Proposal 6645, Observation 3: Center Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy</p>										
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		
	(3)	P330-E	RA: 16 31 33.8052 (247.8908550d) Dec: +30 08 45.54 (30.14598d) 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: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Calibration</i> <i>Description=[External flat field, G stars, Spectrophotometric]</i> <i>Extended=NO</i></p>										
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	SUB32	F110W	NRSRAPID	3	1	1	0.08	109288
Template	HFF Readout Mode										
	false										
Dithers	#	Dither Type		Size	Starting Point		Number of Points		Points		
	1	CYCLING		SMALL	1		4				

Proposal 6645 - Observation 3 - CAL-NRS-320: IFU F-Flats

Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G140H/F070LP	NRSIRS2RAPI D	9	1	false	true	NONE	4	4	583.556	
	2	G140H/F100LP	NRSIRS2RAPI D	9	1	false	true	NONE	4	4	583.556	
	3	G235H/F170LP	NRSIRS2RAPI D	13	1	false	true	NONE	4	4	816.978	
	4	G395H/F290LP	NRSIRS2RAPI D	25	2	false	true	NONE	4	8	3034.489	
	5	G140M/F070LP	NRSIRS2RAPI D	4	1	false	true	NONE	4	4	291.778	
	6	G140M/F100LP	NRSIRS2RAPI D	4	1	false	true	NONE	4	4	291.778	
	7	G235M/F170LP	NRSIRS2RAPI D	6	1	false	true	NONE	4	4	408.489	
8	G395M/F290LP	NRSIRS2RAPI D	18	1	false	true	NONE	4	4	1108.756		

Proposal 6645 - Observation 8 - CAL-NRS-320: IFU F-Flats

Fri Feb 14 19:00:16 GMT 2025

Observation	<p>Proposal 6645, Observation 8: Aperture edges Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy</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			
	(2)	SNAP2	RA: 16 19 46.1030 (244.9420958d) Dec: +55 34 17.86 (55.57163d) Equinox: J2000			Proper Motion RA: -2.929 mas/yr Proper Motion Dec: -10.887000075854303 mas/yr Parallax: 5.535E-4" Epoch of Position: 2000						
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Calibration Description=[External flat field, G stars, Spectrophotometric] Extended=NO</p>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	SAME	WATA	SUB32	F110W	NRSRAPID	3	1	1	0.08	109288	
Template	HFF Readout Mode											
	false											
Mosaic	Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order					
	1	2	10.0	45.0	0.0	0.0	DEFAULT					
Dithers	#	Dither Type	Size	Starting Point	Number of Points			Points				
	1	CYCLING	SMALL	1	4							
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	NRSIRS2RAPID	10	2	false	true	NONE	4	8	1283.822	

Proposal 6645 - Observation 7 - CAL-NRS-320: IFU F-Flats

Fri Feb 14 19:00:16 GMT 2025

Observation	<p>Proposal 6645, Observation 7: Center Diagnostic Status: Warning Observing Template: NIRSspec IFU Spectroscopy</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			
	(2)	SNAP2	RA: 16 19 46.1030 (244.9420958d) Dec: +55 34 17.86 (55.57163d) Equinox: J2000			Proper Motion RA: -2.929 mas/yr Proper Motion Dec: -10.887000075854303 mas/yr Parallax: 5.535E-4" Epoch of Position: 2000						
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Calibration Description=[External flat field, G stars, Spectrophotometric] Extended=NO</p>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	SAME	WATA	SUB32	F110W	NRSRAPID	3	1	1	0.08	109288	
Template	HFF Readout Mode											
	false											
Dithers	#	Dither Type		Size	Starting Point		Number of Points		Points			
	1	CYCLING		SMALL	1		4					
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	NRSIRS2RAPID	10	2	false	true	NONE	4	8	1283.822	