

NIRISS Wide Field Slitless Spectroscopy (WFSS)

Program, Obs(.Exposure_Spec)	Comment
655 1	NIRISS WFSS template exists
Dither Specification	
655 1	Image Dithers choose from list
655 1	Dither Pattern Size choose from list
Science Exposure	
655 1.01	Field: Grism choose from list also applies to Direct Image
655 1.01	Field: Filter choose from list also applies to Direct Image
655 1.01	Field: Readout Pattern choose from list
655 1.01	Field: Number of Groups/Integration number
655 1.01	Field: Number of Integrations/Exposure number
Direct Image	
655 DI1.01	Field: Readout Pattern choose from list
655 DI1.01	Field: Number of Groups/Integration number
655 DI1.01	Field: Number of Integrations/Exposure number
General Information	
not in APT	NO Parallel sr should be specified
Science Grism (Exposure)	
Image Dithers	
655 1	2
655 2	3
655 3 (902 27)	4 (default)
655 4	6
655 5	8
655 20	12
655 23	16
Dither Pattern Size	
655 1	SMALL
655 2	MEDIUM
902 27	MEDIUM default
655 3	LARGE
Grism	
655 3.01	GR150R
655 2.01	GR150C
655 1.01	BOTH
655 1	if BOTH specified two WFSS exposure sequences will be acquired one with GR150R followed by one with GR150C
655 1	secondary dither offset of (2.5,2.0) pixels only applied BOTH
Filter	
655 6.01	F090W
655 3.01	F115W
655 1.01	F140M
655 7.01	F150W
655 5.01	F158M
655 4.01	F200W
Readout Pattern	

655 1.01 (902 27.01)	NIS (default)
655 5.01	NISRAPID
Number of Groups/Integration and Number of Integrations/Exposure	
902 1.01	NUMBER OF GROUPS: NIS 1-200
902 10.01	0
902 11.01	1
902 21.01	200
902 22.01	201
902 5.01	NUMBER OF GROUPS: NISRAPID 1-30
902 23.01	0
902 24.01	1
902 25.01	30
902 26.01	31
902 1.01	NUMBER OF INTEGRATIONS: 1-10
902 10.01	0
902 11.01	1
902 21.01	10
902 22.01	11
Direct Image Exposures	
655 1	one DI before grism exposures begin
655 1	one additional DI at last dither point (after grism exposures)
655 1	filters used are inherited from grism exposures
Direct Image Readout Pattern	
655 DI3.01 (902 DI27.01)	NIS (default)
655 DI1.01	NISRAPID
Direct Image Number of Groups/Integration and Number of Integrations/Exposure	
902 DI3.01	NUMBER OF GROUPS: NIS 1-200
902 DI10.01	0
902 DI11.01	1
903 DI21.01	200
902 DI22.01	201
902 DI1.01	NUMBER OF GROUPS: NISRAPID 1-30
902 DI23.01	0
902 DI24.01	1
902 DI25.01	30
902 DI26.01	31
902 DI 1.01	NUMBER OF INTEGRATIONS: 1-10
902 DI10.01	0
902 DI11.01	1
902 DI21.01	10
902 DI22.01	11
655 1	direct image flat set to Y for each DI spec in DB niriss_exposure_specification.direct_image
655	order in DB needs to follow Table 1