

MIRI Coronagraphic Imaging

Program, Obs only 1 expspec	Comment
Template Specific Information	
604 1	MIRI Coronagraphic Imaging template exists
604 1	Field: Acquisition Quadrant number
604 1	Field: Acquisition Filter chose from list
604 1	Field: Acquisition Readout Pattern choose from list
604 1	Field: Acquisition Number of Groups/Integrations choose from list
604 1	Field: Acquisition Number of Integrations/Exposure 1 only allowed value
604 1	Field: Coronagraphic Mask/Filter choose from list
604 1	Field: Readout Pattern choose from list
604 1	Field: Number of Groups/Integration number
604 1	Field: Number of Integrations/Exposure number
604 1	Field: Number of Exposures/Dither number
604 1	Field: Dither Type choose from list
604 1	Field: Second Exposure YES, NO
604 1	Field: This is a PSF Reference Observation checkbox
604 1	Field: PSF Reference Observation choose from list
604 1	Field: Additional Justification checkbox
Target Acquisition	
604 1	Science target used for acquisition, no offset target allowed
Acquisition Quadrant	
604 1	1
604 2	2
604 3	3
604 4	4
Acquisition Target Filter	
604 8	F560W
604 7	F1000W
604 3	F1500W
604 1	FND
Acquisition Readout Pattern	
604 1 (903 11)	FAST (default)
604 15	FASTGRPAVG LAP
Acquisition Number of Groups/Integration	
604 1	5
604 2	7
604 3	9
604 4	11
604 5	13
604 6	19
604 7	27
604 8	39
604 9	57
604 10	85

604 11	99
Acquisition Number of Integrations/Exposure	
604 1	1 only allowed value
Coronagraphic Exposures	
Coronagraphic Mask/Filter Combination	
604 1	4QPM/F1065C
604 4	4QPM/F1104C
604 5	4QPM/F1550C
604 6	LYOT/F2300C
604 1	4QPM/F1065C SUBARRAY MASK1065 (pointing report for these)
604 4	4QPM/F1104C SUBARRAY MASK1140
604 5	4QPM/F1550C SUBARRAY MASK1550
604 6	LYOT/F2300C SUBARRAY MASKLYOT
604 1	DB break mask/filter into components miri_templates.coronagraph miri_exposure_specification.filter
Readout Pattern	
604 1 (903 11)	FAST (default)
604 14	FASTGRPAVG LAP
Number of Groups/Integration	
604 11 has 2	must be ≥ 2 legal, illegal
903 12 has 4	FASTGRPAVG, recommended at least 4
903 42-44	FAST 2-4 allowed but not recommended
Number of Integrations/Exposure	
604 1 (903 11)	1 (default)
604 3	nondefault
Number of Exposures/Dither	
604 1 (903 11)	1 (default)
903 44	> 1 NO PARALLEL required
Dither Type	
604 1 (903 11)	NONE (default)
604 15	5-POINT-SMALL-GRID
604 16	9-POINT-SMALL-GRID
Second Exposure	
604 1 (903 11)	NO (default)
604 5	YES
604 5	YES 1 then 3
604 6	YES 2 then 4
604 7	YES 3 then 1
604 8	YES 4 then 2
604 5	TES add text with Target Acquisition in quadrant X where X is the value of the diagonal quadrant
604 5	DB store second TARG QUADRANT
903 45,46 no warning	if second exposure would cause visit split don't create second visit but instead give warning length visit exceeding limit
PSF Reference Observations	
604 4	warning Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees
604 6	This is a PSF Reference Observation

604 6	display in GUI "proprietary period will be 0 months"
604 3	PSF Reference Observations, select for science obs
604 1	exception self reference survey
604 1	only list obs which use same instrument, coron mask, and filter ordered so PSF Ref Obs checked come first
604 1	Additional Justification, will not have separate PSF obs as part of a self reference survey
903 11	error to have nothing checked in PSF Reference Obs
903 12	error to choose other science obs that aren't designated PSF
604 1	Additional Justification replaces error with warning