

WFSC NIRCcam Fine Phasing

Program, Obs only 1 expspec	Comment
687 2	each imaging step within series consists of two exposures separated by small few pixel dither
908 24	sr WAVEFRONT SENSING SENSING_CONTROL added by default
908 24	sr DMS PRIORITY ELEVATED added by default
908 24	sr NO PARALLEL added by default
687 2	mosaicing not allowed - no Mosaic Tab
625 1	Field: WFSC NIRCcam Fine Phasing template exists
Template Specific Information	
625 1	Sensing Type choose from list
625 1	Module A,B
LOS Jitter Information (if SENSING TYPE=LOS JITTER or BOTH)	
625 1	Acquisition Target choose from list
625 1	Acquisition Subarray based on Module
625 1	Acquisition Filter F212N
625 1	Acquisition Readout Pattern RAPID
625 1	Acquisition Number of Groups/Integration choose from list
625 1	Acquisition Number of Integrations/Exposure 1
625 1	LOS Images Subarray based on Module
625 1	LOS Images Filters F200W
625 1	LOS Images Readout Pattern RAPID
625 1	LOS Images Number of Groups/Integrations 1-1000
625 1	LOS Images Number of Integrations/Exposure 1-65535
WFSC Fine Phasing Information (if SENSING TYPE=FINE PHASING)	
625 7	Diversity choose from list
Plus/Minus 8 Waves Defocus (F212N) Imaging Parameters	
687 2	Field: Filters see table
687 2	Field: Readout Pattern RAPID, BRIGHT1
687 2	Field: Number of Groups/Integration number
687 2	Field: Number of Integrations/Exposure number
Plus 12 Waves Defocus Imaging Parameters	
687 2	Field: Filters see table
687 2	Field: Readout Pattern RAPID, BRIGHT1
687 2	Field: Number of Groups/Integration number
687 2	Field: Number of Integrations/Exposure number
Plus/Minus 4 Waves Defocus Imaging Parameters	
687 2	Field: Filters see table
687 2	Field: Readout Pattern RAPID, BRIGHT1
687 2	Field: Number of Groups/Integration number
687 2	Field: Number of Integrations/Exposure number
Plus/Minus 8 Waves Defocus (F187N) Imaging Parameters	
687 2	Field: Filters see table
687 2	Field: Readout Pattern RAPID, BRIGHT1
687 2	Field: Number of Groups/Integration number
687 2	Field: Number of Integrations/Exposure number
Sensing Type	

687 2	Fine Phasing
625 1	LOS Jitter
687 3	Both
908 25 (LOS Jitter) 908 26 (Both) Both not in APT	for Both or LOS Jitter don't allow SENSING_CONTROL
687 3	do not duplicate the exposures when Both
Module	
687 1	A
625 4	B
WFSC LOS Jitter Monitoring	
Target Acquisition	
Acquisition Target	
625 1	select target name
625 3	if offset select from list
908 27	if science SS target, acq must not be a different SS target
908 25	ACQUISITION TARGET name should always be present and defaulted to SAME TARGET AS OBSERVATION
908 26	Error if Acq and Science target too far apart
Acquisition Subarray	
625 1	SUB64FP1A for Module A
625 4	SUB64FP1B for Module B
Acquisition Subarray	
625 1	F212N
625 1	Long Wave pupil in FLAT position
Acquisition Readout Pattern	
625 1	RAPID
Acquisition Number of Groups/Integration	
625 1	3
625 5	5
625 2	9
625 3	17
625 6	33
625 4	65
Acquisition Number of Integrations/Exposure	
625 1	1 non editable
LOS Subarray	
625 1	SUB8FP1A for Module A
625 4	SUB8FP1B for Module B
LOS Images Filter Acquisition Target	
625 1	F200W
625 1	Long Wave pupil in FLAT position
LOS Images Readout Pattern	
625 1	RAPID
LOS Images Number of Groups/Integration	
625 1	number
908 32, 33	legal 1, 1000
908 34, 35	illegal 0, 1001
LOS Images Number of Integrations/Exposure	

625 1	number
908 32, 33	legal 1, 65535
908 34, 35	illegal 0, 65536
WFSC Fine Phasing	
Diversity	
687 1	ALL total of 10 exposures
687 2	ALL+187N total of 14 exposures
687 3	PM8 total of 4 exposures
Plus/Minus 8 Waves Defocus (F212N) Imaging Parameters	
Filters	
687 2	step 1 WLM8 F212N F405N F444W FULL
687 2	step 2 WLP8 F212N F405N F444W FULL
Readout Pattern	
687 2	RAPID
687 4	BRIGHT1
Number of Groups/Integration	
687 2	number
908 28, 29	min/max 1, 10
908 30, 31	illegal min,max 0, 11
Number of Integrations/Exposure	
687 2	number
908 28, 29	min/max 1, 10
908 30, 31	illegal min,max 0, 11
Plus 12 Waves Defocus Imaging Parameters	
Filters	
687 2	step 3 WLP8 WLP4 F405N F444W FULL
Readout Pattern	
687 2	RAPID
687 1	BRIGHT1
Number of Groups/Integration	
687 2	number
908 28, 29	min/max 1, 10
908 30, 31	illegal min,max 0, 11
Number of Integrations/Exposure	
687 2	number
908 28, 29	min/max 1, 10
908 30, 31	illegal min,max 0, 11
Plus/Minus 4 Waves Defocus Imaging Parameters	
Filters	
687 2	step 4 WLM8 WLP4 F405N F444W FULL
687 2	step 5 CLEAR WLP4 F405N F444W FULL
Readout Pattern	
687 1	RAPID
687 2	BRIGHT1
Number of Groups/Integration	
687 2	number
908 28, 29	min/max 1, 10
908 30, 31	illegal min,max 0, 11
Number of Integrations/Exposure	

687 2	number
908 28, 29	min/max 1, 10
908 30, 31	illegal min,max 0, 11
Plus/Minus 8 Waves Defocus (F187N) Imaging Parameters	
Filters	
687 2	step 6 WLM8 F187N F405N F444W FULL
687 2	step 7 WLP8 F187N F405N F444W FULL
Readout Pattern	
687 5	RAPID
687 2	BRIGHT1
Number of Groups/Integration	
687 2	number
908 28, 29	min/max 1, 10
908 30, 31	illegal min,max 0, 11
Number of Integrations/Exposure	
687 2	number
908 28, 29	min/max 1, 10
908 30, 31	illegal min,max 0, 11