



4556 - JWST Routine Wavefront Sensing and Control Alternate Proposal for Cycle 2

Cycle: 2, Proposal Category: CAL/OTE

INVESTIGATORS

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OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1		WFSC NIRCcam Fine Phasing	(2) 2MASS-04182439+3958099
	2		WFSC NIRCcam Fine Phasing	(2) 2MASS-04182439+3958099
	3		WFSC NIRCcam Fine Phasing	(2) 2MASS-04182439+3958099
	4		WFSC NIRCcam Fine Phasing	(2) 2MASS-04182439+3958099
	5		WFSC NIRCcam Fine Phasing	(2) 2MASS-04182439+3958099
	6	Baseline observation at current field point FP1	WFSC NIRCcam Fine Phasing	(4) 2MASS-09372521+0152514
	7	Test observation for new field point FP6	WFSC NIRCcam Fine Phasing	(4) 2MASS-09372521+0152514

ABSTRACT

JWST Proposal 4556 (Created: Tuesday, May 7, 2024 at 3:00:19 PM Eastern Standard Time) - Overview

The routine wavefront sensing and control (WFS&C) maintenance calibration program is necessary to fulfill a Level 1 Mission requirement on image quality. These routine WFS&C measurements will execute every ~2 days. The nominal plan is that the majority of observations will be sensing measurements only, wavefront control visits will execute only as needed. The Cycle 1 WFS&C maintenance observations are fashioned following the similar program that will be executed every 2 days during the latter half of JWST commissioning (OTE-26; APT PID 1163).

This is an alternate proposal to be used in cycle 2 in case a quick turn around is needed for STS building, and the regular proposals cannot be processed quickly enough.

OBSERVING DESCRIPTION

The Routine Calibration for WFS&C uses the Fine Phasing (FP) template with observations defined for:

- FP using the NIRCcam weak lenses

And

- LOS Jitter using a small subarray in NIRCcam.

These are the base observations for monitoring the JWST image quality.

The overall program is set up with the grid of four hundred stars ($K_{\text{mag}}=7.0\pm 0.1$) and 5 copies of each observation. For APT performance reasons, the total of 2000 visits are split across 10 APT programs, which jointly make up the entire Cycle calibration program. The PIDs are 4500-4509.

One visit from any of these 10 programs should be scheduled every two days, selecting from any target which is conveniently close to the current observatory pointing at that time. The monitoring cadence has a loose tolerance, notionally 48 hours plus or minus 12 hours between successive visits; this provides flexibility to schedule wavefront monitoring with minimal constraints to the timing of science visits.

We expect only ~182 of the total 2000 visits to be executed in 1 year. The remaining >90% will not be executed. This is intentional to provide a grid of WF sensing targets across the entire sky and then only use ones that minimize slew times based on the targets in the science plan. With 400 targets the average spacing between targets is ~10 degrees; from any point on the sky JWST can slew ~5 deg or less to a nearby WFS target.

The operations concept for wavefront monitoring is that we have a continuous stream of WFSC routine monitoring and maintenance visits every two days, drawn from these APT programs. These visits are by design interchangeable and all identical except for choice of target star.

JWST Proposal 4556 (Created: Tuesday, May 7, 2024 at 3:00:19 PM Eastern Standard Time) - Overview

The JWST WF maintenance plan is to correct the mirrors using a wavefront control file as needed, only when needed. This, by design, is expected to be no more often than once every 14 days. Corrections will not be made every 14 days if the mirrors haven't drifted out of alignment; conversely if monitoring visits show significant misalignments on shorter timescales we will not wait the 14 days to issue a control - we'd issue a control in the next WFS visit two days later. The observatory was designed to be stable enough to need corrections no more often than every couple of weeks. Based on current modeling, observatory stability may substantially exceed this requirement and corrections may be much less frequent than the 14 day cadence.

When a correction is needed (based on the analysis of some observation N), it can be attached to the next observation N+1 in the sequence. This is done by the OTE/WFSC team delivering a wavefront control file to PPS, and requires no changes in APT.

Proposal 4556 - Targets - JWST Routine Wavefront Sensing and Control Alternate Proposal for Cycle 2

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	2MASS-00043014-0657554	RA: 00 04 30.1163 (1.1254846d) Dec: -06 57 55.78 (-6.96549d) Equinox: J2000	Proper Motion RA: -39.524229931003916 mas/yr Proper Motion Dec: -13.263972877415348 mas/yr Epoch of Position: 2015.5	
<i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Focus test]</i>				
(2)	2MASS-04182439+3958099	RA: 04 18 24.4178 (64.6017408d) Dec: +39 58 9.62 (39.96934d) Equinox: J2000	Proper Motion RA: 6.081744936776603 mas/yr Proper Motion Dec: -22.200568651990594 mas/yr Epoch of Position: 2015.5	
<i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Focus test]</i>				
(3)	2MASS-05562621-6359103	RA: 05 56 26.1833 (89.1090971d) Dec: -63 59 10.34 (-63.98621d) Equinox: J2000	Proper Motion RA: -1.579730908999 mas/yr Proper Motion Dec: 4.98007058177817 mas/yr Epoch of Position: 2015.5	
<i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Focus test]</i>				
(4)	2MASS-09372521+0152514	RA: 09 37 25.1182 (144.3546592d) Dec: +01 52 52.13 (1.88115d) Equinox: J2000	Proper Motion RA: -94.6009040455202 mas/yr Proper Motion Dec: 43.3699116355624 mas/yr Epoch of Position: 2015.5	
<i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Focus test]</i>				

Fixed Targets

Proposal 4556 - Observation 1 - JWST Routine Wavefront Sensing and Control Alternate Proposal for Cycle 2

Tue May 07 20:00:19 GMT 2024

Observation	Proposal 4556, Observation 1 Diagnostic Status: Warning Observing Template: WFSC NIRCcam Fine Phasing									
	(Observation 1) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition. (WFSC LOS Jitter Acq Exposure) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition. (Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(2)	2MASS-04182439+3958099	RA: 04 18 24.4178 (64.6017408d) Dec: +39 58 9.62 (39.96934d) Equinox: J2000		Proper Motion RA: 6.081744936776603 mas/yr Proper Motion Dec: -22.200568651990594 mas/yr Epoch of Position: 2015.5					
Comments: Category=Calibration Description=/Focus test]										
Acquisition	#	Target	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	SUB64FP1A	F212N	RAPID	3	1	1	0.203	
Template	Module		Sensing type			Diversity		Expected No. of WFC Commands		
	A		Both			ALL+187N		144		
Dithers	#	Primary Dither Type								
	1	WFSC								
Spectral Elements	#	Subarray	Short Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SUB8FP1A	F212N	RAPID	72	750	1	750	120.57	

Proposal 4556 - Observation 1 - JWST Routine Wavefront Sensing and Control Alternate Proposal for Cycle 2

Spectral Elements	#	Short Pupil	Short Filter	Long Pupil	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	WLM8	F212N	CLEAR	F356W	RAPID	4	2	4	193.262	
	2	WLP8	F212N	CLEAR	F356W	RAPID	4	2	4	193.262	
	3	WLP8	WLP4	CLEAR	F356W	RAPID	8	2	4	365.05	
	4	WLM8	WLP4	CLEAR	F356W	RAPID	2	1	2	42.947	
	5	CLEAR	WLP4	CLEAR	F356W	RAPID	2	1	2	42.947	
	6	WLM8	F187N	CLEAR	F356W	RAPID	4	2	4	193.262	
	7	WLP8	F187N	CLEAR	F356W	RAPID	4	2	4	193.262	
Special Requirements	No Parallel Attachments Wavefront Sensing ROUTINE OTE Temperature Monitoring DMS Priority ELEVATED										

Proposal 4556 - Observation 2 - JWST Routine Wavefront Sensing and Control Alternate Proposal for Cycle 2

Tue May 07 20:00:19 GMT 2024

Observation	Proposal 4556, Observation 2 Diagnostic Status: Warning Observing Template: WFSC NIRCcam Fine Phasing									
	(Observation 2) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition. (WFSC LOS Jitter Acq Exposure) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition. (Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(2)	2MASS-04182439+3958099	RA: 04 18 24.4178 (64.6017408d) Dec: +39 58 9.62 (39.96934d) Equinox: J2000			Proper Motion RA: 6.081744936776603 mas/yr Proper Motion Dec: -22.200568651990594 mas/yr Epoch of Position: 2015.5				
Acquisition	<i>Comments:</i> Category=Calibration Description=/Focus test]									
	#	Target	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	SUB64FP1A	F212N	RAPID	3	1	1	0.203		
Template	Module		Sensing type			Diversity			Expected No. of WFC Commands	
	A		Both			ALL+187N			144	
Dithers										
	#									Primary Dither Type
1									WFSC	
Spectral Elements	#	Subarray	Short Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SUB8FP1A	F212N	RAPID	72	750	1	750	120.57	

Proposal 4556 - Observation 2 - JWST Routine Wavefront Sensing and Control Alternate Proposal for Cycle 2

Spectral Elements	#	Short Pupil	Short Filter	Long Pupil	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	WLM8	F212N	CLEAR	F356W	RAPID	4	2	4	193.262	
	2	WLP8	F212N	CLEAR	F356W	RAPID	4	2	4	193.262	
	3	WLP8	WLP4	CLEAR	F356W	RAPID	8	2	4	365.05	
	4	WLM8	WLP4	CLEAR	F356W	RAPID	2	1	2	42.947	
	5	CLEAR	WLP4	CLEAR	F356W	RAPID	2	1	2	42.947	
	6	WLM8	F187N	CLEAR	F356W	RAPID	4	2	4	193.262	
	7	WLP8	F187N	CLEAR	F356W	RAPID	4	2	4	193.262	
Special Requirements	No Parallel Attachments Wavefront Sensing ROUTINE OTE Temperature Monitoring DMS Priority ELEVATED										

Proposal 4556 - Observation 3 - JWST Routine Wavefront Sensing and Control Alternate Proposal for Cycle 2

Tue May 07 20:00:19 GMT 2024

Observation	Proposal 4556, Observation 3 Diagnostic Status: Warning Observing Template: WFSC NIRCam Fine Phasing									
	(Observation 3) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition. (WFSC LOS Jitter Acq Exposure) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition. (Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(2)	2MASS-04182439+3958099	RA: 04 18 24.4178 (64.6017408d) Dec: +39 58 9.62 (39.96934d) Equinox: J2000			Proper Motion RA: 6.081744936776603 mas/yr Proper Motion Dec: -22.200568651990594 mas/yr Epoch of Position: 2015.5				
Acquisition	<i>Comments:</i> Category=Calibration Description=/Focus test]									
	#	Target	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	SUB64FP1A	F212N	RAPID	3	1	1	0.203		
Template	Module		Sensing type			Diversity			Expected No. of WFC Commands	
	A		Both			ALL+187N			144	
Dithers										
	#									Primary Dither Type
1									WFSC	
Spectral Elements	#	Subarray	Short Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SUB8FP1A	F212N	RAPID	72	750	1	750	120.57	

Proposal 4556 - Observation 3 - JWST Routine Wavefront Sensing and Control Alternate Proposal for Cycle 2

Spectral Elements	#	Short Pupil	Short Filter	Long Pupil	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	WLM8	F212N	CLEAR	F356W	RAPID	4	2	4	193.262	
	2	WLP8	F212N	CLEAR	F356W	RAPID	4	2	4	193.262	
	3	WLP8	WLP4	CLEAR	F356W	RAPID	8	2	4	365.05	
	4	WLM8	WLP4	CLEAR	F356W	RAPID	2	1	2	42.947	
	5	CLEAR	WLP4	CLEAR	F356W	RAPID	2	1	2	42.947	
	6	WLM8	F187N	CLEAR	F356W	RAPID	4	2	4	193.262	
	7	WLP8	F187N	CLEAR	F356W	RAPID	4	2	4	193.262	
Special Requirements	No Parallel Attachments Wavefront Sensing ROUTINE OTE Temperature Monitoring DMS Priority ELEVATED										

Proposal 4556 - Observation 4 - JWST Routine Wavefront Sensing and Control Alternate Proposal for Cycle 2

Tue May 07 20:00:19 GMT 2024

Observation	Proposal 4556, Observation 4 Diagnostic Status: Warning Observing Template: WFSC NIRCam Fine Phasing									
	(Observation 4) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition. (WFSC LOS Jitter Acq Exposure) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition. (Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(2)	2MASS-04182439+3958099	RA: 04 18 24.4178 (64.6017408d) Dec: +39 58 9.62 (39.96934d) Equinox: J2000			Proper Motion RA: 6.081744936776603 mas/yr Proper Motion Dec: -22.200568651990594 mas/yr Epoch of Position: 2015.5				
<i>Comments: Category=Calibration Description=/Focus test</i>										
Acquisition	#	Target	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	SUB64FP1A	F212N	RAPID	3	1	1	0.203	
Template	Module		Sensing type			Diversity			Expected No. of WFC Commands	
	A		Both			ALL+187N			144	
Dithers	#	Primary Dither Type								
	1	WFSC								
Spectral Elements	#	Subarray	Short Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SUB8FP1A	F212N	RAPID	72	750	1	750	120.57	

Proposal 4556 - Observation 4 - JWST Routine Wavefront Sensing and Control Alternate Proposal for Cycle 2

Spectral Elements	#	Short Pupil	Short Filter	Long Pupil	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	WLM8	F212N	CLEAR	F356W	RAPID	4	2	4	193.262	
	2	WLP8	F212N	CLEAR	F356W	RAPID	4	2	4	193.262	
	3	WLP8	WLP4	CLEAR	F356W	RAPID	8	2	4	365.05	
	4	WLM8	WLP4	CLEAR	F356W	RAPID	2	1	2	42.947	
	5	CLEAR	WLP4	CLEAR	F356W	RAPID	2	1	2	42.947	
	6	WLM8	F187N	CLEAR	F356W	RAPID	4	2	4	193.262	
	7	WLP8	F187N	CLEAR	F356W	RAPID	4	2	4	193.262	
Special Requirements	No Parallel Attachments Wavefront Sensing ROUTINE OTE Temperature Monitoring DMS Priority ELEVATED										

Proposal 4556 - Observation 5 - JWST Routine Wavefront Sensing and Control Alternate Proposal for Cycle 2

Tue May 07 20:00:19 GMT 2024

Observation	Proposal 4556, Observation 5 Diagnostic Status: Warning Observing Template: WFSC NIRCcam Fine Phasing									
	(Observation 5) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition. (WFSC LOS Jitter Acq Exposure) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition. (Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(2)	2MASS-04182439+3958099	RA: 04 18 24.4178 (64.6017408d) Dec: +39 58 9.62 (39.96934d) Equinox: J2000			Proper Motion RA: 6.081744936776603 mas/yr Proper Motion Dec: -22.200568651990594 mas/yr Epoch of Position: 2015.5				
<i>Comments: Category=Calibration Description= Focus test </i>										
Acquisition	#	Target	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	SUB64FP1A	F212N	RAPID	3	1	1	0.203	
Template	Module		Sensing type			Diversity			Expected No. of WFC Commands	
	A		Both			ALL+187N			144	
Dithers	#									Primary Dither Type
	1									WFSC
Spectral Elements	#	Subarray	Short Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SUB8FP1A	F212N	RAPID	72	750	1	750	120.57	

Proposal 4556 - Observation 5 - JWST Routine Wavefront Sensing and Control Alternate Proposal for Cycle 2

Spectral Elements	#	Short Pupil	Short Filter	Long Pupil	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	WLM8	F212N	CLEAR	F356W	RAPID	4	2	4	193.262	
	2	WLP8	F212N	CLEAR	F356W	RAPID	4	2	4	193.262	
	3	WLP8	WLP4	CLEAR	F356W	RAPID	8	2	4	365.05	
	4	WLM8	WLP4	CLEAR	F356W	RAPID	2	1	2	42.947	
	5	CLEAR	WLP4	CLEAR	F356W	RAPID	2	1	2	42.947	
	6	WLM8	F187N	CLEAR	F356W	RAPID	4	2	4	193.262	
	7	WLP8	F187N	CLEAR	F356W	RAPID	4	2	4	193.262	
Special Requirements	No Parallel Attachments Wavefront Sensing ROUTINE OTE Temperature Monitoring DMS Priority ELEVATED										

Proposal 4556 - Observation 6 - JWST Routine Wavefront Sensing and Control Alternate Proposal for Cycle 2

Tue May 07 20:00:19 GMT 2024

Observation	Proposal 4556, Observation 6: Baseline observation at current field point FP1 Diagnostic Status: Warning Observing Template: WFSC NIRCcam Fine Phasing										
	(Baseline observation at current field point FP1 (Obs 6)) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition. (WFSC LOS Jitter Acq Exposure) Warning (Form): Record ETC Wkbk.Calc ID used to verify target acquisition. (Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Diagnosics											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous			
	(4)	2MASS-09372521+0152514	RA: 09 37 25.1182 (144.3546592d) Dec: +01 52 52.13 (1.88115d) Equinox: J2000		Proper Motion RA: -94.6009040455202 mas/yr Proper Motion Dec: 43.3699116355624 mas/yr Epoch of Position: 2015.5						
<i>Comments: Category=Calibration Description= Focus test </i>											
Acquisition	#	Target	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	SAME	SUB64FP1A	F212N	RAPID	3	1	1	0.203		
Template	Module	Sensing type			Diversity			Expected No. of WFC Commands			
	A	Both			PM8			0			
Dithers	#	Primary Dither Type									
	1	WFSC									
Spectral Elements	#	Subarray	Short Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	SUB8FP1A	F212N	RAPID	72	750	1	750	120.57		
Spectral Elements	#	Short Pupil	Short Filter	Long Pupil	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	WLM8	F212N	CLEAR	F356W	RAPID	4	2	4	193.262	
	2	WLP8	F212N	CLEAR	F356W	RAPID	4	2	4	193.262	

Proposal 4556 - Observation 6 - JWST Routine Wavefront Sensing and Control Alternate Proposal for Cycle 2

Special Requirements

No Parallel Attachments
Wavefront Sensing ROUTINE
OTE Temperature Monitoring
DMS Priority ELEVATED

Proposal 4556 - Observation 7 - JWST Routine Wavefront Sensing and Control Alternate Proposal for Cycle 2

Tue May 07 20:00:19 GMT 2024

Observation	<p>Proposal 4556, Observation 7: Test observation for new field point FP6</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: WFSC NIRCcam Fine Phasing</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			
	(4)	2MASS-09372521+0152514	RA: 09 37 25.1182 (144.3546592d) Dec: +01 52 52.13 (1.88115d) Equinox: J2000		Proper Motion RA: -94.6009040455202 mas/yr Proper Motion Dec: 43.3699116355624 mas/yr Epoch of Position: 2015.5						
	<p><i>Comments:</i> <i>Category=Calibration</i> <i>Description=/Focus test]</i></p>										
Template	Module		Sensing type		Diversity			Expected No. of WFC Commands			
	A		Fine Phasing		PM8			0			
Dithers	#	Primary Dither Type									
	1	WFSC									
Spectral Elements	#	Short Pupil	Short Filter	Long Pupil	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	WLM8	F212N	CLEAR	F356W	RAPID	4	2	4	193.262	
	2	WLP8	F212N	CLEAR	F356W	RAPID	4	2	4	193.262	
Special Requirements	<p>Offset -25.87453 arcsec, 12.8363 arcsec No Parallel Attachments Wavefront Sensing ROUTINE OTE Temperature Monitoring DMS Priority ELEVATED</p>										