



17921 - In-flight calibration of the stray-light blocking efficiency of HST/ACS

Cycle: 32, Proposal Category: GO

(Calibration)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Alejandro Serrano Borlaff (PI) (Contact)	NASA Ames Research Center
Dr. Pamela M Marcum (CoI) (CoPI)	NASA Ames Research Center
Dr. Scott Owens Rohrbach (CoI)	NASA Goddard Space Flight Center

VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(8) OFFSET-MOON-10DEG-FIXED	ACS/WFC	1	16-Sep-2025 16:00:33.0	yes
03	(9) OFFSET-MOON-15DEG-FIXED	ACS/WFC	1	16-Sep-2025 16:00:33.0	yes
23	(11) OFFSET-MOON-15DEG-FIXED-REPEAT	ACS/WFC	1	16-Sep-2025 16:00:34.0	yes
04	(10) OFFSET-MOON-20DEG-FIXED	ACS/WFC	1	16-Sep-2025 16:00:34.0	yes
02	(4) OFFSET-JUPITER-1DEG	ACS/WFC	1	16-Sep-2025 16:00:34.0	yes
05	(4) OFFSET-JUPITER-1DEG	ACS/WFC	1	16-Sep-2025 16:00:35.0	yes
06	(4) OFFSET-JUPITER-1DEG	ACS/WFC	1	16-Sep-2025 16:00:35.0	yes
07	(3) OFFSET-JUPITER-05DEG	ACS/WFC	1	16-Sep-2025 16:00:36.0	yes
08	(3) OFFSET-JUPITER-05DEG	ACS/WFC	1	16-Sep-2025 16:00:36.0	yes
09	(3) OFFSET-JUPITER-05DEG	ACS/WFC	1	16-Sep-2025 16:00:36.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
10	(2) OFFSET-JUPITER-01DEG	ACS/WFC	1	16-Sep-2025 16:00:37.0	yes
11	(2) OFFSET-JUPITER-01DEG	ACS/WFC	1	16-Sep-2025 16:00:37.0	yes
12	(2) OFFSET-JUPITER-01DEG	ACS/WFC	1	16-Sep-2025 16:00:38.0	yes
13	(1) JUPITER-SCAN	ACS/WFC	1	16-Sep-2025 16:00:38.0	yes
A1	(7) OFFSET-MOON-10DEG	ACS/WFC	1	16-Sep-2025 16:00:38.0	yes
A3	(6) OFFSET-MOON-15DEG	ACS/WFC	1	16-Sep-2025 16:00:39.0	yes
A4	(5) OFFSET-MOON-20DEG	ACS/WFC	1	16-Sep-2025 16:00:39.0	yes

17 Total Orbits Used

ABSTRACT

Stray-light contamination is the most critical component of the sky background in optical and near-infrared images obtained with HST. Its presence in science images generates unwanted background artifacts, reducing their scientific impact and erasing the dim signal from astronomical sources. Currently, there is no methodology to predict, model, or correct the stray-light background in Hubble images due to the lack of precise measurements of the stray-light blocking efficiency of the observatory, described through a function called Normalized Detector Irradiance (NDI).

The diffuse emission in the outskirts of galaxies such as stellar tidal streams, intracluster light (ICL), or the low surface brightness galaxies provides crucial evidence for the cosmological evolution of the Universe. However, these extended, low surface brightness (LSB) features are thousands of times dimmer than the sky background ($SB = 29\text{-}30$ AB mag arcsec⁻², at 0.7 μm) and very sensitive to the presence of gradients of stray-light. Unveiling this informative, yet hidden, emission with the Hubble Space Telescope thus requires an exquisite control and correction of large scale background gradients in the images.

The goal of this proposal is to measure the stray-light blocking efficiency (NDI) of HST by obtaining a series of calibration exposures near extremely bright objects (Jupiter and the Moon). The proposed observations will enable to create models of the stray-light from out-of-field stars around the HST/ACS detector, allowing for the first time to correct artificial gradients in Archival HST imaging products, generating pixel-by-pixel stray-light models from bright stars for each observation.

OBSERVING DESCRIPTION

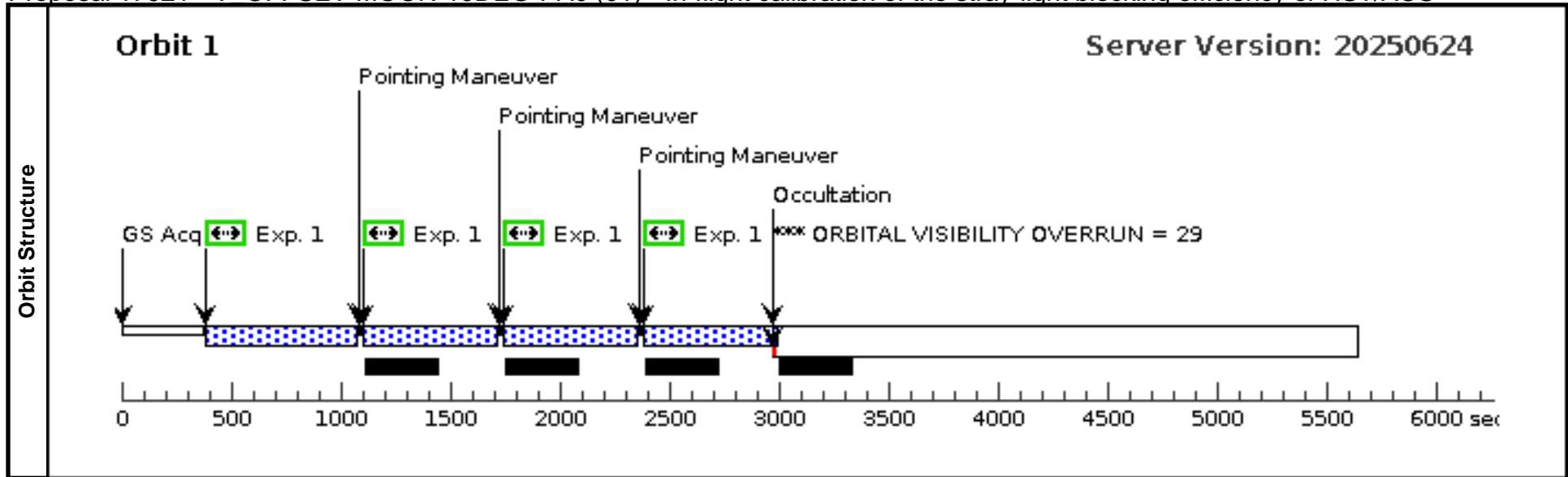
The observing plan of our program 17921: In-flight calibration of the stray-light blocking efficiency of HST/ACS consists of several observations at a certain distances from the Moon and Jupiter. The main objective is to measure the stray-light from extremely bright sources with ACS/WFC pointing the telescope up to 20 degrees away from the source. Our proposal is compliant within Moon avoidance distance and RGM considerations.

In particular, the observations require us to point HST to any location at X degrees from the Moon (10, 15, 20 degrees) or Jupiter (at 0.05, 0.1, 0.5, and 1 degrees, no tracking of Solar System moving objects is required). The selection of these locations is flexible, any location on a 360 degrees around the targets would be acceptable. However, the relative position angle between the spacecraft axes and the source must be ~0, 30 and 60 degrees. All the orbits can be scheduled independently, although they should be obtained as close to the full phase of the Moon and Jupiter as possible. We shall avoid other bright sources, like bright stars or other planets.

Proposal 17921 - V_OFFSET-MOON-10DEG-PA0 (01) - In-flight calibration of the stray-light blocking efficiency of HST/ACS

Tue Sep 16 20:00:40 GMT 2025

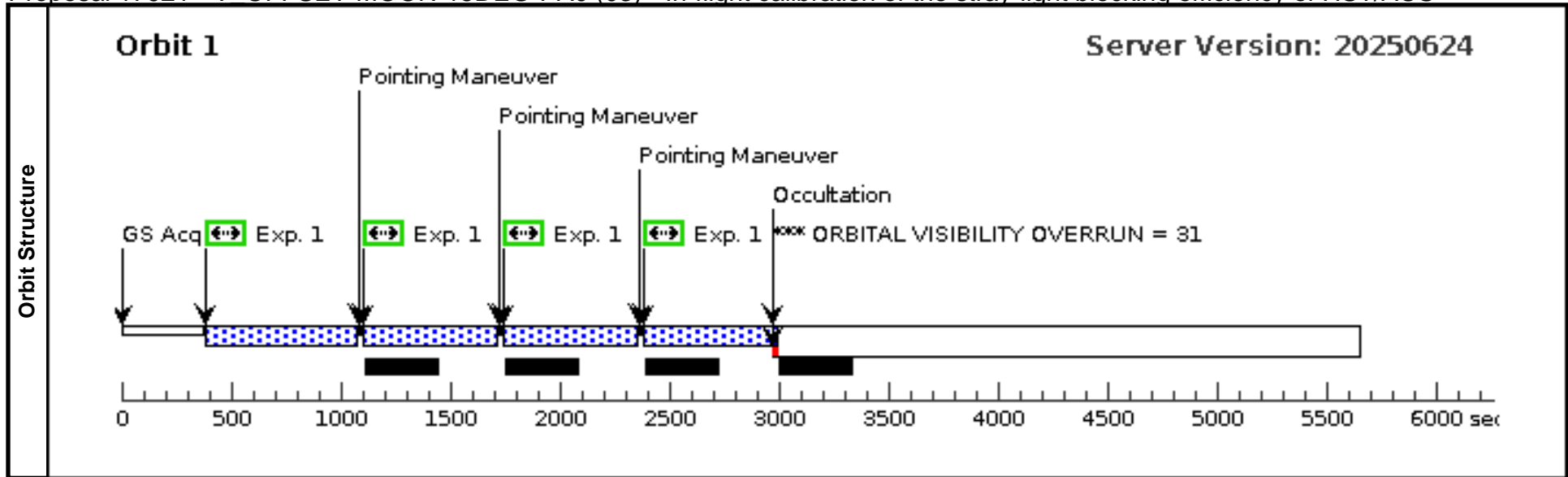
Visit	Proposal 17921, V_OFFSET-MOON-10DEG-PA0 (01), completed Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: ORIENT 255D TO 285 D; BETWEEN 2025.164:14:20:00 AND 2025.164:14:30:00 <i>Comments: Observation at 10 degrees from the Moon. Orientation between Moon and ACS X-axis PA = (0 degrees) or (90 degrees) or (180 degrees) or (270 degrees) +/- 15 degrees.</i>									
	Diagnosics (V_OFFSET-MOON-10DEG-PA0 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(5)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.2637 Line Spacing=0.1856 Coordinate Frame=POS-TARG Pattern Orientation=20.7 Angle Between Sides=69.02 Center Pattern=false		(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	OFFSET-MOON-10DEG-FIXED	RA: 19 27 43.0121 (291.9292171d) Dec: -16 52 44.27 (-16.87896d) Equinox: J2000		V=17.5	Reference Frame: ICRS				
<i>Comments: Category=SOLAR SYSTEM Description=[OFFSET]</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	OFFSET-MOON-10DEG-PA0-1	(8) OFFSET-MOON-10DEG-FIXED	ACS/WFC, ACCUM, WFC	F775W			Pattern 5, Exps 1-1 in V_OFFSET-MOON-10DEG-PA0 (01) (5)	500 Secs (1931 Secs) [==>482.0 Secs (Pattern 1)] [==>483.0 Secs (Pattern 2)] [==>483.0 Secs (Pattern 3)] [==>483.0 Secs (Pattern 4)]	[1]



Proposal 17921 - V OFFSET-MOON-15DEG-PA0 (03) - In-flight calibration of the stray-light blocking efficiency of HST/ACS

Tue Sep 16 20:00:40 GMT 2025

Visit	Proposal 17921, V_OFFSET-MOON-15DEG-PA0 (03), failed Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: ORIENT 255D TO 285 D; BETWEEN 2025.164:15:50 AND 2025.164:16:05 <i>Comments: Observation at 15 degrees from the Moon. Orientation between Moon and ACS X-axis PA = (0 degrees) or (90 degrees) or (180 degrees) or (270 degrees) +/- 15 degrees.</i>									
	(V_OFFSET-MOON-15DEG-PA0 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(5)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.2637 Line Spacing=0.1856	Coordinate Frame=POS-TARG Pattern Orientation=20.7 Angle Between Sides=69.02 Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	OFFSET-MOON-15DEG-FIXED	RA: 19 31 7.4254 (292.7809392d) Dec: -11 46 49.92 (-11.78053d) Equinox: J2000		V=17.5	Reference Frame: ICRS				
<i>Comments: Category=SOLAR SYSTEM Description=[OFFSET]</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	OFFSET-MOON-15DEG-PA0	(9) OFFSET-MOON-15DEG-FIXED	ACS/WFC, ACCUM, WFC	F775W			Pattern 5, Exps 1-1 in V_OFFSET-MOON-15DEG-PA0 (03) (5)	500 Secs (1931 Secs) [==>482.0 Secs (Pattern 1)] [==>483.0 Secs (Pattern 2)] [==>483.0 Secs (Pattern 3)] [==>483.0 Secs (Pattern 4)]	[1]



Proposal 17921 - V OFFSET-MOON-15DEG-PA0 (23) - In-flight calibration of the stray-light blocking efficiency of HST/ACS

Tue Sep 16 20:00:40 GMT 2025

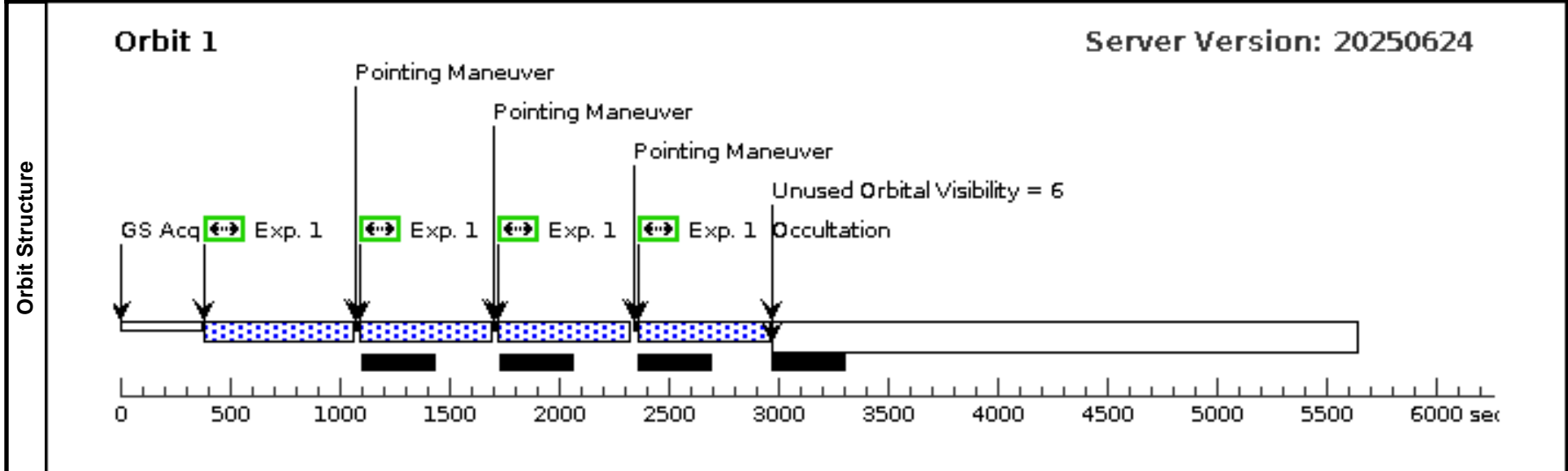
Proposal 17921, V_OFFSET-MOON-15DEG-PA0 (23), implementation
Diagnostic Status: No Diagnostics
 Scientific Instruments: ACS/WFC
 Special Requirements: ORIENT 255D TO 285 D; ORIENT 0.001D TO 15 D; ORIENT 345D TO 360 D; ORIENT 75D TO 105 D; ORIENT 165D TO 195 D; BETWEEN 2025.280:04:35 AND 2025.280:04:50
Comments: Observation at 15 degrees from the Moon. Orientation between Moon and ACS X-axis PA = (0 degrees) or (90 degrees) or (180 degrees) or (270 degrees) +- 15 degrees. This is a repeat of failed visit 03. Modified - 18 Aug 2025. Adding galactic latitude constrain. NOT BETWEEN b = -23 + 23.

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(5)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.2637 Line Spacing=0.1856	Coordinate Frame=POS-TARG Pattern Orientation=20.7 Angle Between Sides=69.02 Center Pattern=false	(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(11)	OFFSET-MOON-15DEG-FIXED-REPEAT	RA: 00 49 15.0720 (12.3128000d) Dec: +22 49 6.24 (22.81840d) Equinox: J2000		V=17.5	Reference Frame: ICRS

Comments: Category=SOLAR SYSTEM Description=[OFFSET]

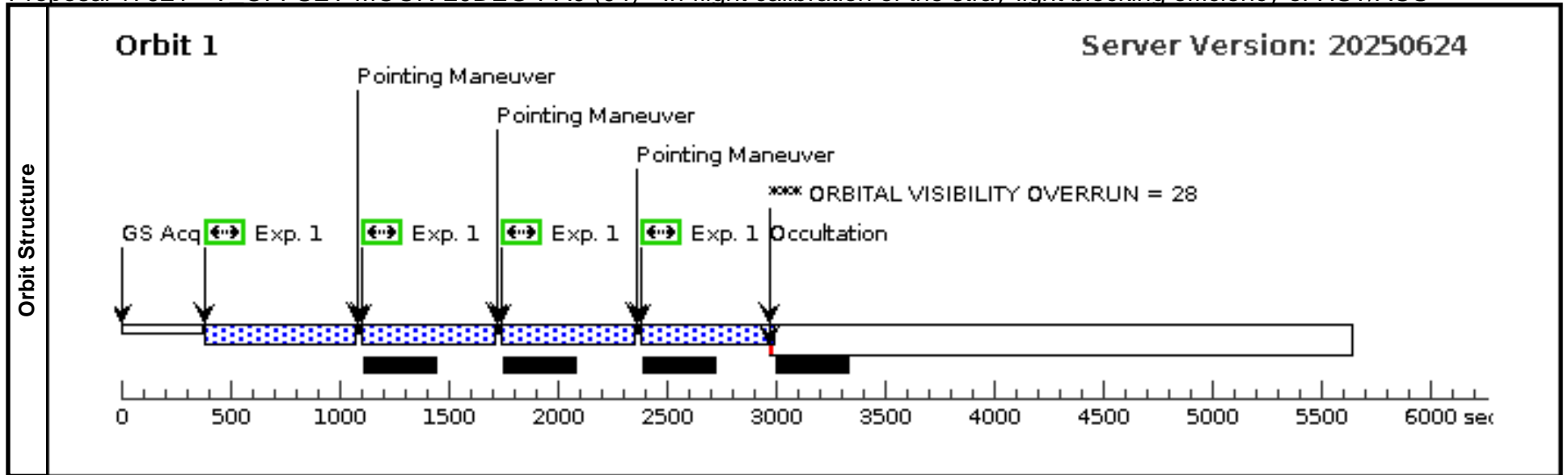
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	OFFSET-MOON-15DEG-PA0	(11) OFFSET-MOON-15DEG-FIXED-REPEAT	ACS/WFC, ACCUM, WFC	F775W			Pattern 5, Exps 1-1 in V_OFFSET-MOON-15DEG-PA0 (23) (5)	500 Secs (1899 Secs) [=>474.0 Secs (Pattern 1)] [=>475.0 Secs (Pattern 2)] [=>475.0 Secs (Pattern 3)] [=>475.0 Secs (Pattern 4)]	[1]



Proposal 17921 - V_OFFSET-MOON-20DEG-PA0 (04) - In-flight calibration of the stray-light blocking efficiency of HST/ACS

Tue Sep 16 20:00:40 GMT 2025

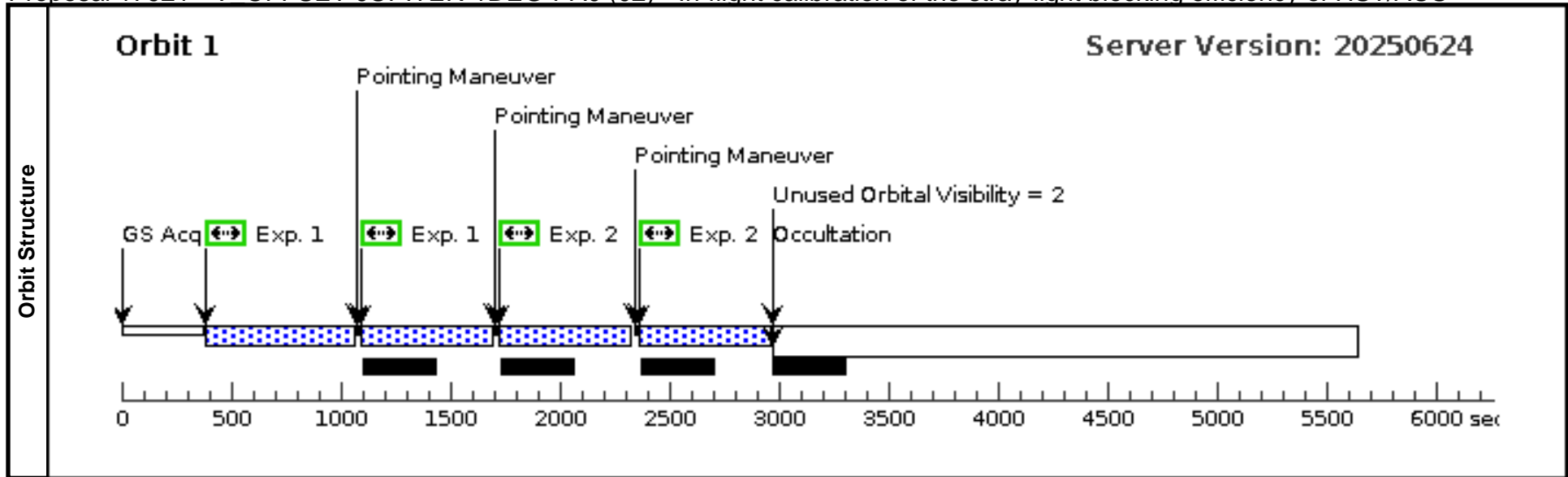
Visit	Proposal 17921, V_OFFSET-MOON-20DEG-PA0 (04), completed Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: ORIENT 255D TO 285 D; BETWEEN 2025.164:17:25 AND 2025.164:17:40 <i>Comments: Observation at 20 degrees from the Moon. Orientation between Moon and ACS X-axis PA = (0 degrees) or (90 degrees) or (180 degrees) or (270 degrees) +/- 15 degrees.</i>									
	Diagnosics (V_OFFSET-MOON-20DEG-PA0 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(5)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.2637 Line Spacing=0.1856 Coordinate Frame=POS-TARG Pattern Orientation=20.7 Angle Between Sides=69.02 Center Pattern=false		(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	OFFSET-MOON-20DEG-FIXED	RA: 19 34 55.4383 (293.7309929d) Dec: -06 30 19.89 (-6.50552d) Equinox: J2000		V=17.5	Reference Frame: ICRS				
<i>Comments: Category=SOLAR SYSTEM Description=[OFFSET]</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	OFFSET-MOON-20DEG-PA0	(10) OFFSET-MOON-20DEG-FIXED	ACS/WFC, ACCUM, WFC	F775W			Pattern 5, Exps 1-1 in V_OFFSET-MOON-20DEG-PA0 (04) (5)	500 Secs (1931 Secs) [==>482.0 Secs (Pattern 1)] [==>483.0 Secs (Pattern 2)] [==>483.0 Secs (Pattern 3)] [==>483.0 Secs (Pattern 4)]	[1]



Proposal 17921 - V_OFFSET-JUPITER-1DEG-PA0 (02) - In-flight calibration of the stray-light blocking efficiency of HST/ACS

Tue Sep 16 20:00:40 GMT 2025

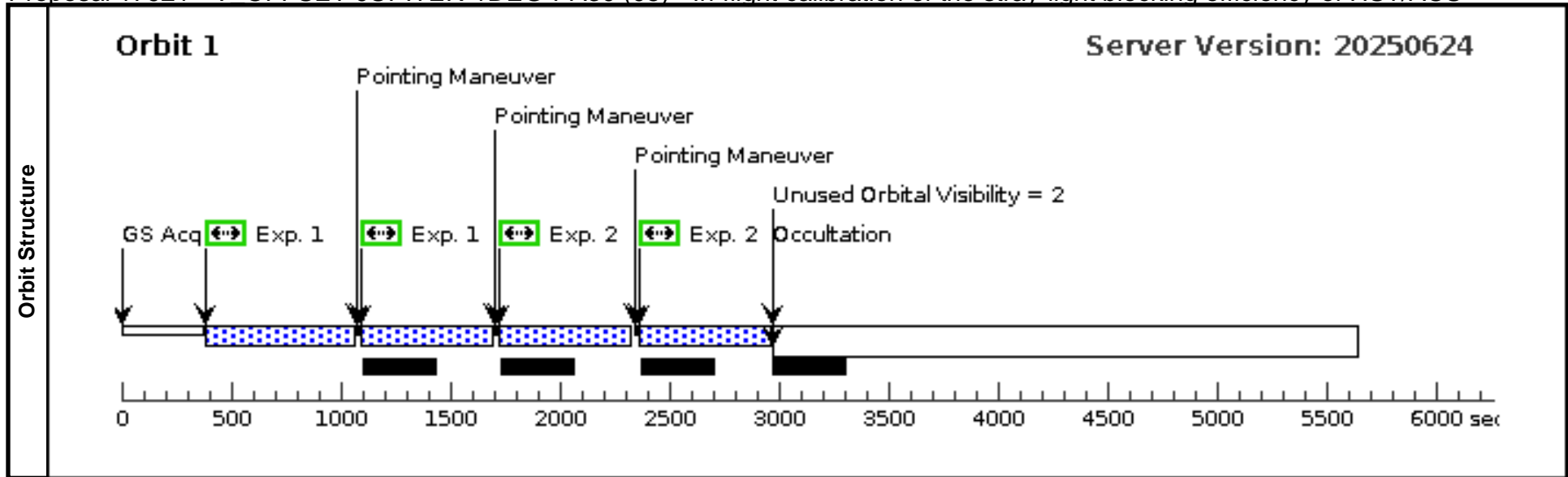
Visit	Proposal 17921, V_OFFSET-JUPITER-1DEG-PA0 (02), implementation Diagnostic Status: Informational Scientific Instruments: ACS/WFC Special Requirements: NOTRACK; ORIENT 0.001D TO 15 D; ORIENT 345D TO 360 D; ORIENT 75D TO 105 D; ORIENT 165D TO 195 D; ORIENT 255D TO 285 D; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET <i>Comments: Observation at 1 degrees from Jupiter. Orientation between Jupiter and ACS X-axis PA = (0 degrees) or (90 degrees) or (180 degrees) or (270 degrees) +/- 15 degrees. Modified - 18 Aug 2025. Adding galactic latitude constrain. NOT BETWEEN b = -23 + 23.</i>										
	Diagnosics (V_OFFSET-JUPITER-1DEG-PA0 (02)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(4)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false							(1), (2)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center				
	(4)	OFFSET-JUPITER-1DEG	STD=JUPITER	TYPE=POS_ANGLE,RAD=3600,ANG=0,REF=NORTH			NOT OCC OF OFFSET-JUPITER-1DEG BY JUPITER FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-1DEG BY IO FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-1DEG BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-1DEG BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-1DEG BY CALLISTO FROM EARTH, SEP OF OFFSET-JUPITER-1DEG MOON FROM EARTH GT 20D, SEP OF OFFSET-JUPITER-1DEG VENUS FROM EARTH GT 20D, PHASE OF JUPITER FROM EARTH BETWEEN 0 30, NOT GALACTIC LATITUDE OF OFFSET-JUPITER-1DEG FROM EARTH BETWEEN -23 23	EARTH			
<i>Comments: Any location at 1 degrees from the Jupiter. Position angle (level 2) is arbitrary. Set to 0 because APT does not accept empty values for position angle. Description=Jupiter at 1 degree from FOV Extended=NO</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(4) OFFSET-JUPITER-1DEG	ACS/WFC, ACCUM, WFC	F775W				Pattern 4, Exps 1-1 in V_OFFSET-JUPITER-1DEG-PA0 (02) (4)	500 Secs (951 Secs) [=>475.0 Secs (Pattern 1)] [=>476.0 Secs (Pattern 2)]	[1]	
2	(4) OFFSET-JUPITER-1DEG	ACS/WFC, ACCUM, WFC	F775W		POS TARG null,90		Pattern 4, Exps 2-2 in V_OFFSET-JUPITER-1DEG-PA0 (02) (4)	500 Secs (952 Secs) [=>476.0 Secs (Pattern 1)] [=>476.0 Secs (Pattern 2)]	[1]		



Proposal 17921 - V_OFFSET-JUPITER-1DEG-PA30 (05) - In-flight calibration of the stray-light blocking efficiency of HST/ACS

Tue Sep 16 20:00:40 GMT 2025

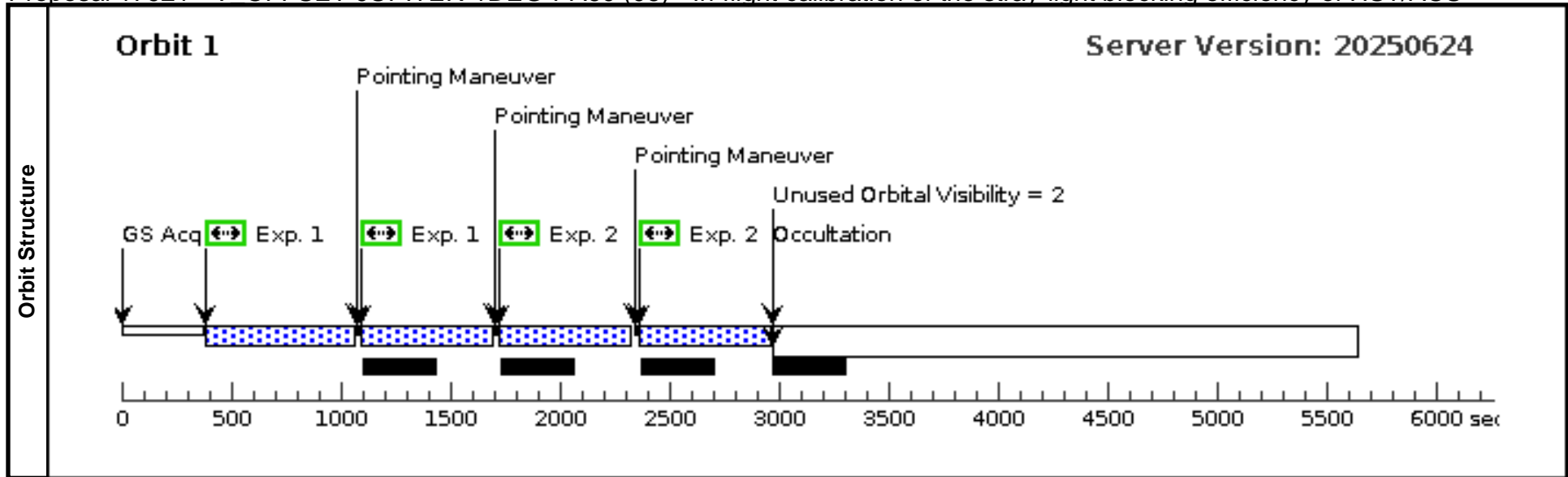
Visit	Proposal 17921, V_OFFSET-JUPITER-1DEG-PA30 (05), implementation Diagnostic Status: Informational Scientific Instruments: ACS/WFC Special Requirements: NOTRACK; ORIENT 15D TO 45 D; ORIENT 105D TO 135 D; ORIENT 195D TO 225 D; ORIENT 285D TO 315 D; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET <i>Comments: Observation at 1 degrees from Jupiter. Orientation between Jupiter and ACS X-axis PA = (30 degrees) or (120 degrees) or (210 degrees) or (300 degrees) +/- 15 degrees. Modified - 18 Aug 2025. Adding galactic latitude constrain. NOT BETWEEN b = -23 + 23.</i>									
	(V_OFFSET-JUPITER-1DEG-PA30 (05)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Patterns	#	Primary Pattern			Secondary Pattern		Exposures			
	(4)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false			(1), (2)				
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(4)	OFFSET-JUPITER-1DEG	STD=JUPITER	TYPE=POS_ANGLE,RAD=3600,ANG=0,REF=NORTH		NOT OCC OF OFFSET-JUPITER-1DEG BY JUPITER FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-1DEG BY IO FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-1DEG BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-1DEG BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-1DEG BY CALLISTO FROM EARTH, SEP OF OFFSET-JUPITER-1DEG MOON FROM EARTH GT 20D, SEP OF OFFSET-JUPITER-1DEG VENUS FROM EARTH GT 20D, PHASE OF JUPITER FROM EARTH BETWEEN 0 30, NOT GALACTIC LATITUDE OF OFFSET-JUPITER-1DEG FROM EARTH BETWEEN -23 23	EARTH			
<i>Comments: Any location at 1 degrees from the Jupiter. Position angle (level 2) is arbitrary. Set to 0 because APT does not accept empty values for position angle. Description=Jupiter at 1 degree from FOV Extended=NO</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(4) OFFSET-JUPITER-1DEG	ACS/WFC, ACCUM, WFC	F775W				Pattern 4, Exps 1-1 in V_OFFSET-JUPITER-1DEG-PA30 (05) (4)	500 Secs (951 Secs) [=>475.0 Secs (Pattern 1)] [=>476.0 Secs (Pattern 2)]	[1]
2	(4) OFFSET-JUPITER-1DEG	ACS/WFC, ACCUM, WFC	F775W			POS TARG null,90		Pattern 4, Exps 2-2 in V_OFFSET-JUPITER-1DEG-PA30 (05) (4)	500 Secs (952 Secs) [=>476.0 Secs (Pattern 1)] [=>476.0 Secs (Pattern 2)]	[1]



Proposal 17921 - V_OFFSET-JUPITER-1DEG-PA60 (06) - In-flight calibration of the stray-light blocking efficiency of HST/ACS

Tue Sep 16 20:00:40 GMT 2025

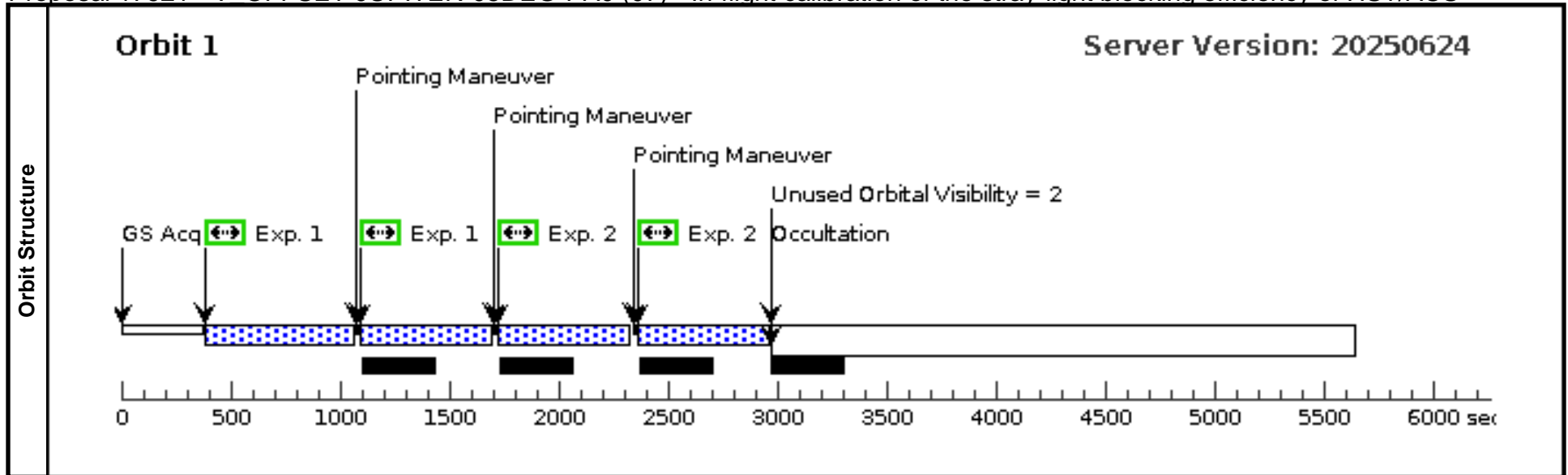
Visit	Proposal 17921, V_OFFSET-JUPITER-1DEG-PA60 (06), implementation Diagnostic Status: Informational Scientific Instruments: ACS/WFC Special Requirements: NOTRACK; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET <i>Comments: Observation at 1 degrees from Jupiter. Orientation between Jupiter and ACS X-axis PA = (60 degrees) or (150 degrees) or (240 degrees) or (330 degrees) +- 15 degrees. Modified - 18 Aug 2025. Adding galactic latitude constrain. NOT BETWEEN b = -23 + 23. Removing PA = 60 ORIENT ranges due to schedulability issues.</i>									
	(V_OFFSET-JUPITER-1DEG-PA60 (06)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
	(4)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false			(1), (2)				
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(4)	OFFSET-JUPITER-1DEG	STD=JUPITER	TYPE=POS_ANGLE,RAD=3600,ANG=0,REF=NORTH		NOT OCC OF OFFSET-JUPITER-1DEG BY JUPITER FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-1DEG BY IO FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-1DEG BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-1DEG BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-1DEG BY CALLISTO FROM EARTH, SEP OF OFFSET-JUPITER-1DEG MOON FROM EARTH GT 20D, SEP OF OFFSET-JUPITER-1DEG VENUS FROM EARTH GT 20D, PHASE OF JUPITER FROM EARTH BETWEEN 0 30, NOT GALACTIC LATITUDE OF OFFSET-JUPITER-1DEG FROM EARTH BETWEEN -23 23	EARTH			
<i>Comments: Any location at 1 degrees from the Jupiter. Position angle (level 2) is arbitrary. Set to 0 because APT does not accept empty values for position angle. Description=Jupiter at 1 degree from FOV Extended=NO</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(4) OFFSET-JUPITER-1DEG	ACS/WFC, ACCUM, WFC	F775W				Pattern 4, Exps 1-1 in V_OFFSET-JUPITER-1DEG-PA60 (06) (4)	500 Secs (951 Secs) [==>475.0 Secs (Pattern 1)] [==>476.0 Secs (Pattern 2)]	[1]
2	(4) OFFSET-JUPITER-1DEG	ACS/WFC, ACCUM, WFC	F775W		POS TARG null,90		Pattern 4, Exps 2-2 in V_OFFSET-JUPITER-1DEG-PA60 (06) (4)	500 Secs (952 Secs) [==>476.0 Secs (Pattern 1)] [==>476.0 Secs (Pattern 2)]	[1]	



Proposal 17921 - V_OFFSET-JUPITER-05DEG-PA0 (07) - In-flight calibration of the stray-light blocking efficiency of HST/ACS

Tue Sep 16 20:00:40 GMT 2025

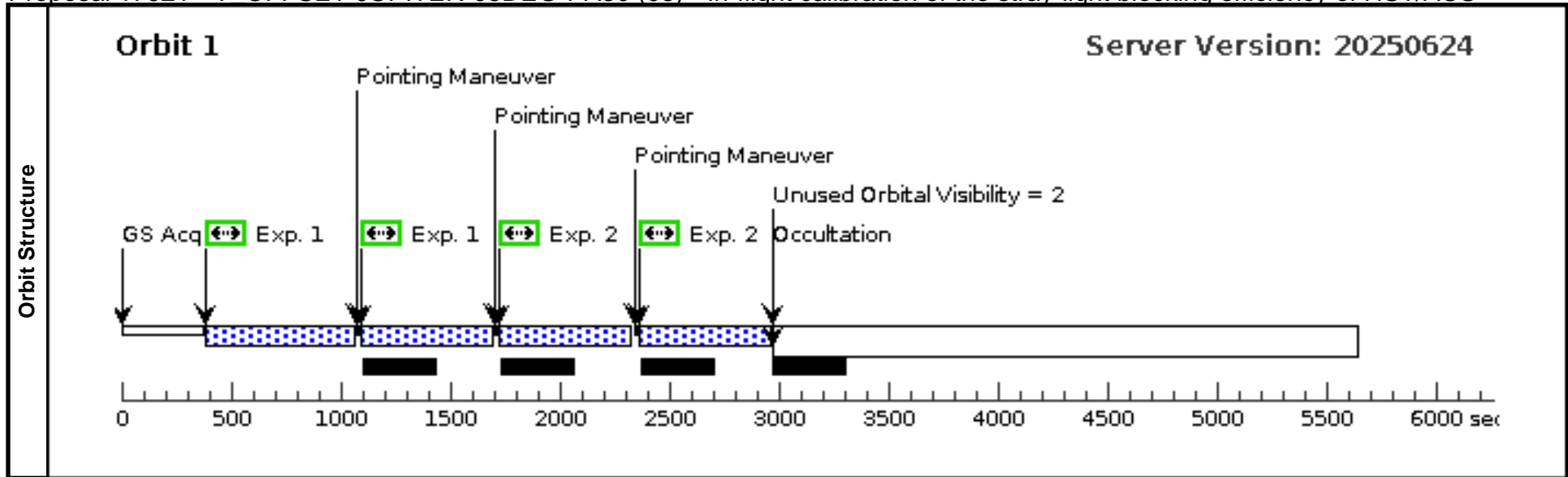
Visit	Proposal 17921, V_OFFSET-JUPITER-05DEG-PA0 (07), implementation Diagnostic Status: Informational Scientific Instruments: ACS/WFC Special Requirements: NOTRACK; ORIENT 0.001D TO 15 D; ORIENT 345D TO 360 D; ORIENT 75D TO 105 D; ORIENT 165D TO 195 D; ORIENT 255D TO 285 D; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET <i>Comments: Observation at 0.5 degrees from Jupiter. Orientation between Jupiter and ACS X-axis PA = (0 degrees) or (90 degrees) or (180 degrees) or (270 degrees) +/- 15 degrees. Modified - 18 Aug 2025. Adding galactic latitude constrain. NOT BETWEEN b = -23 + 23.</i>									
	Diagnosics (V_OFFSET-JUPITER-05DEG-PA0 (07)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
	(4)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false			(1), (2)				
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(3)	OFFSET-JUPITER-05DEG	STD=JUPITER	TYPE=POS_ANGLE,RAD=1800,ANG=0,REF=NORTH			NOT OCC OF OFFSET-JUPITER-05DEG BY JUPITER FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-05DEG BY IO FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-05DEG BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-05DEG BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-05DEG BY CALLISTO FROM EARTH, SEP OF OFFSET-JUPITER-05DEG MOON FROM EARTH GT 20D, SEP OF OFFSET-JUPITER-05DEG VENUS FROM EARTH GT 20D, PHASE OF JUPITER FROM EARTH BETWEEN 0 30, NOT GALACTIC LATITUDE OF OFFSET-JUPITER-05DEG FROM EARTH BETWEEN -23 23	EARTH		
<i>Comments: Any location at 0.5 degrees from the Jupiter. Position angle (level 2) is arbitrary. Set to 0 because APT does not accept empty values for position angle. Description=Jupiter at 0.5 degree from FOV Extended=NO</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) OFFSET-JUPITER-05DEG	ACS/WFC, ACCUM, WFC	F775W				Pattern 4, Exps 1-1 in V_OFFSET-JUPITER-05DEG-PA0 (07) (4)	500 Secs (951 Secs) [=>475.0 Secs (Pattern 1)] [=>476.0 Secs (Pattern 2)]	[1]
2	(3) OFFSET-JUPITER-05DEG	ACS/WFC, ACCUM, WFC	F775W			POS TARG null,90		Pattern 4, Exps 2-2 in V_OFFSET-JUPITER-05DEG-PA0 (07) (4)	500 Secs (952 Secs) [=>476.0 Secs (Pattern 1)] [=>476.0 Secs (Pattern 2)]	[1]



Proposal 17921 - V OFFSET-JUPITER-05DEG-PA30 (08) - In-flight calibration of the stray-light blocking efficiency of HST/ACS

Tue Sep 16 20:00:40 GMT 2025

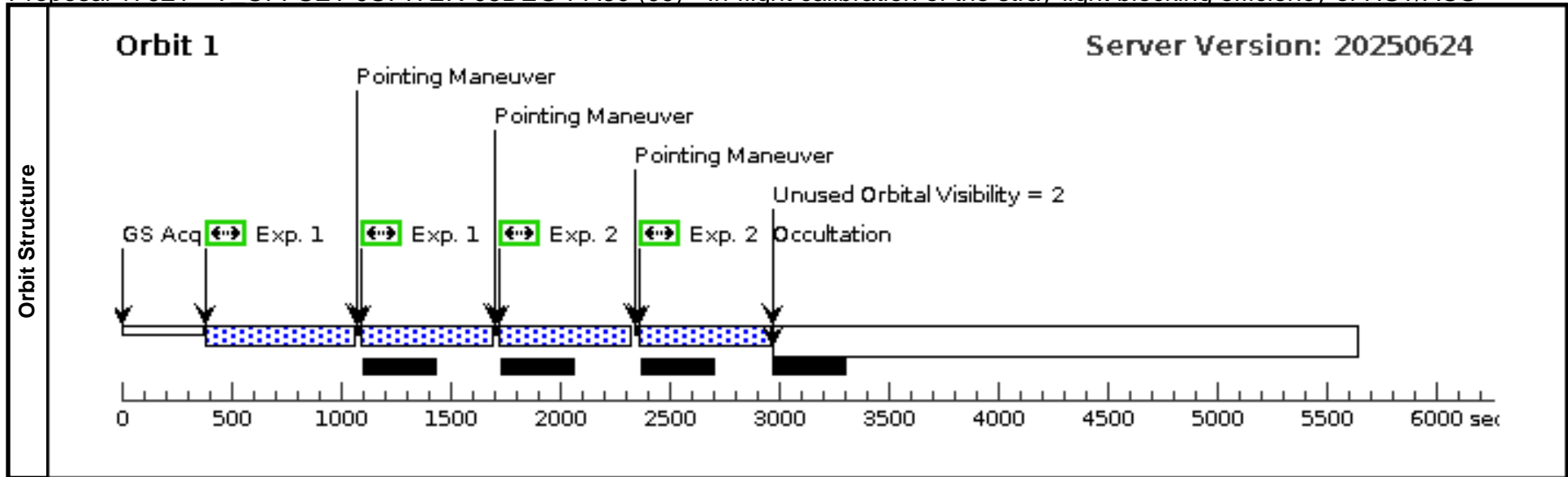
Visit	Proposal 17921, V_OFFSET-JUPITER-05DEG-PA30 (08), implementation Diagnostic Status: Informational Scientific Instruments: ACS/WFC Special Requirements: NOTRACK; ORIENT 15D TO 45 D; ORIENT 105D TO 135 D; ORIENT 195D TO 225 D; ORIENT 285D TO 315 D; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET <i>Comments: Observation at 0.5 degrees from Jupiter. Orientation between Jupiter and ACS X-axis PA = (30 degrees) or (120 degrees) or (210 degrees) or (300 degrees) +/- 15 degrees. Modified - 18 Aug 2025. Adding galactic latitude constrain. NOT BETWEEN b = -23 + 23.</i>									
	(V_OFFSET-JUPITER-05DEG-PA30 (08)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
	(4)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false			(1), (2)				
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(3)	OFFSET-JUPITER-05DEG	STD=JUPITER	TYPE=POS_ANGLE,RAD=1800,ANG=0,REF=NORTH			NOT OCC OF OFFSET-JUPITER-05DEG BY JUPITER FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-05DEG BY IO FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-05DEG BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-05DEG BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-05DEG BY CALLISTO FROM EARTH, SEP OF OFFSET-JUPITER-05DEG MOON FROM EARTH GT 20D, SEP OF OFFSET-JUPITER-05DEG VENUS FROM EARTH GT 20D, PHASE OF JUPITER FROM EARTH BETWEEN 0 30, NOT GALACTIC LATITUDE OF OFFSET-JUPITER-05DEG FROM EARTH BETWEEN -23 23	EARTH		
<i>Comments: Any location at 0.5 degrees from the Jupiter. Position angle (level 2) is arbitrary. Set to 0 because APT does not accept empty values for position angle. Description=Jupiter at 0.5 degree from FOV Extended=NO</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) OFFSET-JUPITER-05DEG	ACS/WFC, ACCUM, WFC	F775W				Pattern 4, Exps 1-1 in V_OFFSET-JUPITER-05DEG-PA30 (08) (4)	500 Secs (951 Secs) [=>475.0 Secs (Pattern 1)] [=>476.0 Secs (Pattern 2)]	[1]
2	(3) OFFSET-JUPITER-05DEG	ACS/WFC, ACCUM, WFC	F775W			POS TARG null,90		Pattern 4, Exps 2-2 in V_OFFSET-JUPITER-05DEG-PA30 (08) (4)	500 Secs (952 Secs) [=>476.0 Secs (Pattern 1)] [=>476.0 Secs (Pattern 2)]	[1]



Proposal 17921 - V_OFFSET-JUPITER-05DEG-PA60 (09) - In-flight calibration of the stray-light blocking efficiency of HST/ACS

Tue Sep 16 20:00:40 GMT 2025

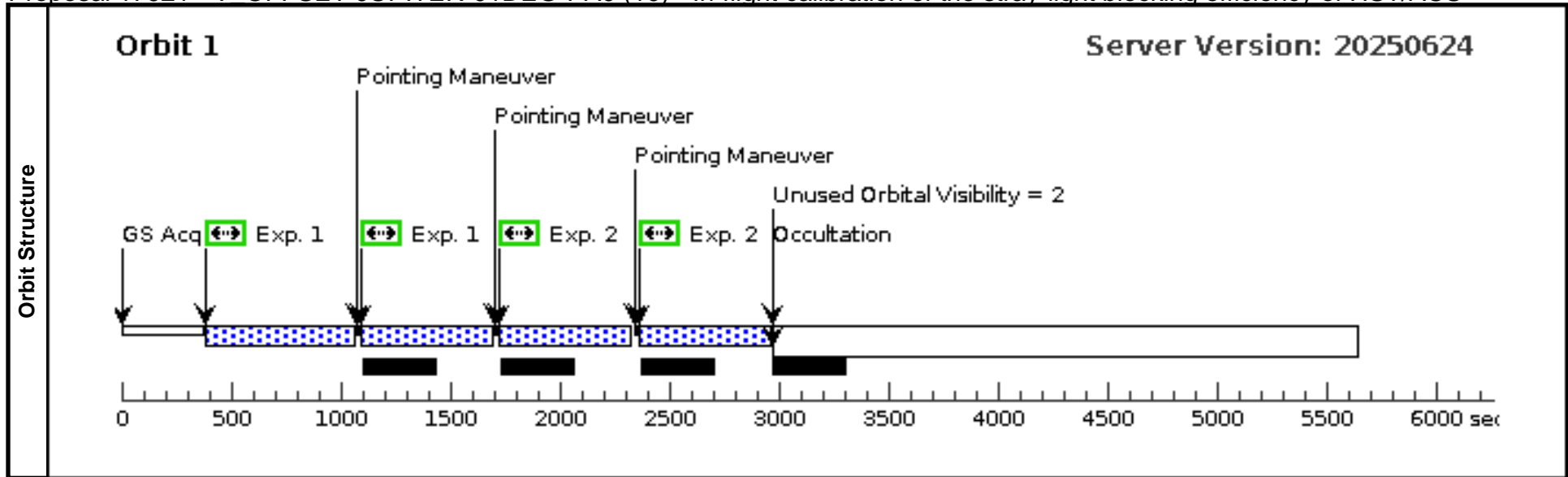
Visit	Proposal 17921, V_OFFSET-JUPITER-05DEG-PA60 (09), implementation Diagnostic Status: Informational Scientific Instruments: ACS/WFC Special Requirements: NOTRACK; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET <i>Comments: Observation at 0.5 degrees from Jupiter. Orientation between Jupiter and ACS X-axis PA = (60 degrees) or (150 degrees) or (240 degrees) or (330 degrees) +/- 15 degrees. Modified - 18 Aug 2025. Adding galactic latitude constrain. NOT BETWEEN b = -23 + 23. Removing PA = 60 ORIENT ranges due to schedulability issues.</i>									
	(V_OFFSET-JUPITER-05DEG-PA60 (09)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
	(4)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false			(1), (2)				
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(3)	OFFSET-JUPITER-05DEG	STD=JUPITER	TYPE=POS_ANGLE,RAD=1800,ANG=0,REF=NORTH		NOT OCC OF OFFSET-JUPITER-05DEG BY JUPITER FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-05DEG BY IO FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-05DEG BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-05DEG BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-05DEG BY CALLISTO FROM EARTH, SEP OF OFFSET-JUPITER-05DEG MOON FROM EARTH GT 20D, SEP OF OFFSET-JUPITER-05DEG VENUS FROM EARTH GT 20D, PHASE OF JUPITER FROM EARTH BETWEEN 0 30, NOT GALACTIC LATITUDE OF OFFSET-JUPITER-05DEG FROM EARTH BETWEEN -23 23	EARTH			
<i>Comments: Any location at 0.5 degrees from the Jupiter. Position angle (level 2) is arbitrary. Set to 0 because APT does not accept empty values for position angle. Description=Jupiter at 0.5 degree from FOV Extended=NO</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) OFFSET-JUPITER-05DEG	ACS/WFC, ACCUM, WFC	F775W				Pattern 4, Exps 1-1 in V_OFFSET-JUPITER-05DEG-PA60 (09) (4)	500 Secs (951 Secs) [=>475.0 Secs (Pattern 1)] [=>476.0 Secs (Pattern 2)]	[1]
2	(3) OFFSET-JUPITER-05DEG	ACS/WFC, ACCUM, WFC	F775W		POS TARG null,90			Pattern 4, Exps 2-2 in V_OFFSET-JUPITER-05DEG-PA60 (09) (4)	500 Secs (952 Secs) [=>476.0 Secs (Pattern 1)] [=>476.0 Secs (Pattern 2)]	[1]



Proposal 17921 - V OFFSET-JUPITER-01DEG-PA0 (10) - In-flight calibration of the stray-light blocking efficiency of HST/ACS

Tue Sep 16 20:00:40 GMT 2025

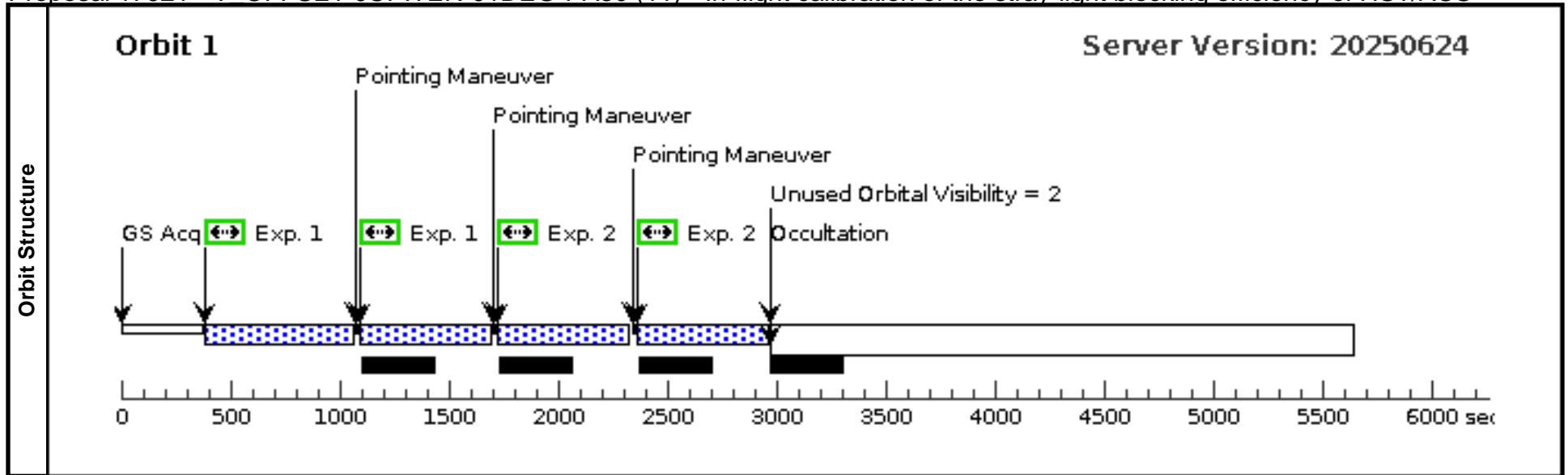
Visit	Proposal 17921, V_OFFSET-JUPITER-01DEG-PA0 (10), implementation Diagnostic Status: Informational Scientific Instruments: ACS/WFC Special Requirements: NOTRACK; ORIENT 0.001D TO 15 D; ORIENT 345D TO 360 D; ORIENT 75D TO 105 D; ORIENT 165D TO 195 D; ORIENT 255D TO 285 D; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET Comments: Observation at 0.1 degrees from Jupiter. Orientation between Jupiter and ACS X-axis PA = (0 degrees) or (90 degrees) or (180 degrees) or (270 degrees) +/- 15 degrees. Modified - 18 Aug 2025. Adding galactic latitude constrain. NOT BETWEEN b = -23 + 23.									
	(V_OFFSET-JUPITER-01DEG-PA0 (10)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
	(4)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false			(1), (2)				
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(2)	OFFSET-JUPITER-01DEG	STD=JUPITER	TYPE=POS_ANGLE,RAD=360,ANG=0,REF=NORTH		NOT OCC OF OFFSET-JUPITER-01DEG BY JUPITER FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-01DEG BY IO FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-01DEG BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-01DEG BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-01DEG BY CALLISTO FROM EARTH, SEP OF OFFSET-JUPITER-01DEG MOON FROM EARTH GT 20D, SEP OF OFFSET-JUPITER-01DEG VENUS FROM EARTH GT 20D, PHASE OF JUPITER FROM EARTH BETWEEN 0 30, NOT GALACTIC LATITUDE OF OFFSET-JUPITER-01DEG FROM EARTH BETWEEN -23 23	EARTH			
Comments: Any location at 0.1 degrees from the Jupiter. Position angle (level 2) is arbitrary. Set to 0 because APT does not accept empty values for position angle.0 Description=Jupiter at 0.1 degree from FOV Extended=NO										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) OFFSET-JUPITER-01DEG	ACS/WFC, ACCUM, WFC	F775W				Pattern 4, Exps 1-1 in V_OFFSET-JUPITER-01DEG-PA0 (10) (4)	500 Secs (951 Secs) [=>475.0 Secs (Pattern 1)] [=>476.0 Secs (Pattern 2)]	[1]
2	(2) OFFSET-JUPITER-01DEG	ACS/WFC, ACCUM, WFC	F775W		POS TARG null,90		Pattern 4, Exps 2-2 in V_OFFSET-JUPITER-01DEG-PA0 (10) (4)	500 Secs (952 Secs) [=>476.0 Secs (Pattern 1)] [=>476.0 Secs (Pattern 2)]	[1]	



Proposal 17921 - V OFFSET-JUPITER-01DEG-PA30 (11) - In-flight calibration of the stray-light blocking efficiency of HST/ACS

Tue Sep 16 20:00:40 GMT 2025

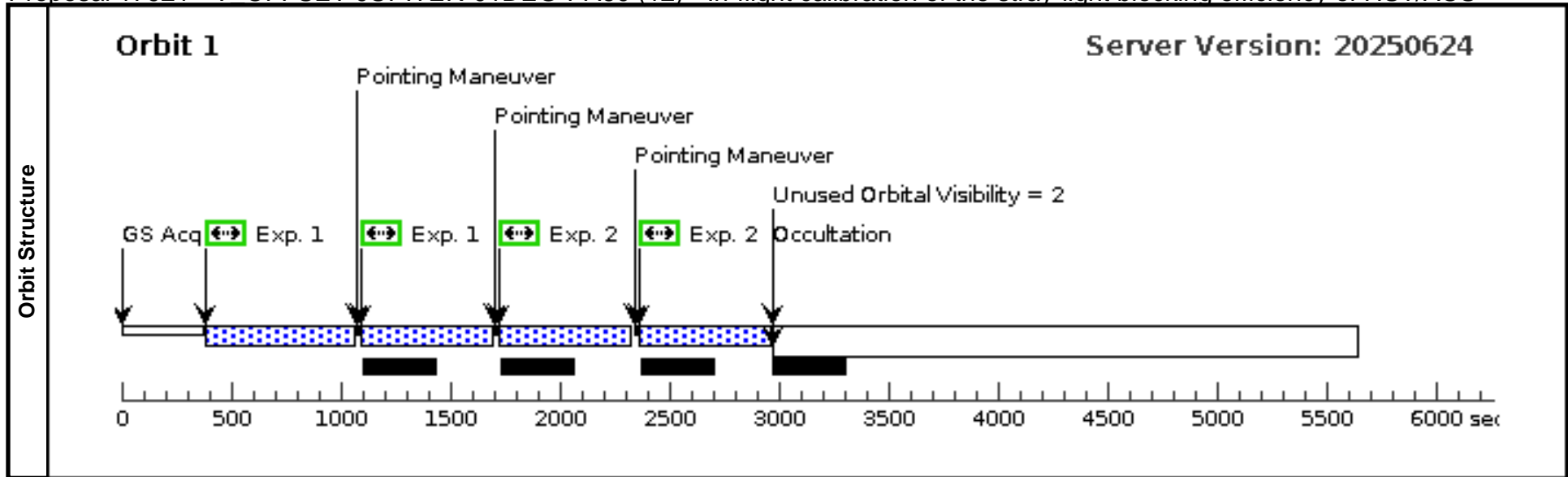
Visit	Proposal 17921, V_OFFSET-JUPITER-01DEG-PA30 (11), implementation Diagnostic Status: Informational Scientific Instruments: ACS/WFC Special Requirements: NOTRACK; ORIENT 15D TO 45 D; ORIENT 105D TO 135 D; ORIENT 195D TO 225 D; ORIENT 285D TO 315 D; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET <i>Comments: Observation at 0.1 degrees from Jupiter. Orientation between Jupiter and ACS X-axis PA = (30 degrees) or (120 degrees) or (210 degrees) or (300 degrees) +/- 15 degrees. Modified - 18 Aug 2025. Adding galactic latitude constrain. NOT BETWEEN b = -23 + 23.</i>										
	Diagnosics (V_OFFSET-JUPITER-01DEG-PA30 (11)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(4)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false					(1), (2)			
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center				
	(2)	OFFSET-JUPITER-01DEG	STD=JUPITER	TYPE=POS_ANGLE,RAD=360,ANG=0,REF=NORTH		NOT OCC OF OFFSET-JUPITER-01DEG BY JUPITER FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-01DEG BY IO FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-01DEG BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-01DEG BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-01DEG BY CALLISTO FROM EARTH, SEP OF OFFSET-JUPITER-01DEG MOON FROM EARTH GT 20D, SEP OF OFFSET-JUPITER-01DEG VENUS FROM EARTH GT 20D, PHASE OF JUPITER FROM EARTH BETWEEN 0 30, NOT GALACTIC LATITUDE OF OFFSET-JUPITER-01DEG FROM EARTH BETWEEN -23 23	EARTH				
<i>Comments: Any location at 0.1 degrees from the Jupiter. Position angle (level 2) is arbitrary. Set to 0 because APT does not accept empty values for position angle.0</i> Description=Jupiter at 0.1 degree from FOV Extended=NO											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(2) OFFSET-JUPITER-01DEG	ACS/WFC, ACCUM, WFC	F775W				Pattern 4, Exps 1-1 in V_OFFSET-JUPITER-01DEG-PA30 (11) (4)	500 Secs (951 Secs) [=>475.0 Secs (Pattern 1)] [=>476.0 Secs (Pattern 2)]		[1]
2	(2) OFFSET-JUPITER-01DEG	ACS/WFC, ACCUM, WFC	F775W		POS TARG null,90		Pattern 4, Exps 2-2 in V_OFFSET-JUPITER-01DEG-PA30 (11) (4)	500 Secs (952 Secs) [=>476.0 Secs (Pattern 1)] [=>476.0 Secs (Pattern 2)]		[1]	



Proposal 17921 - V_OFFSET-JUPITER-01DEG-PA60 (12) - In-flight calibration of the stray-light blocking efficiency of HST/ACS

Tue Sep 16 20:00:40 GMT 2025

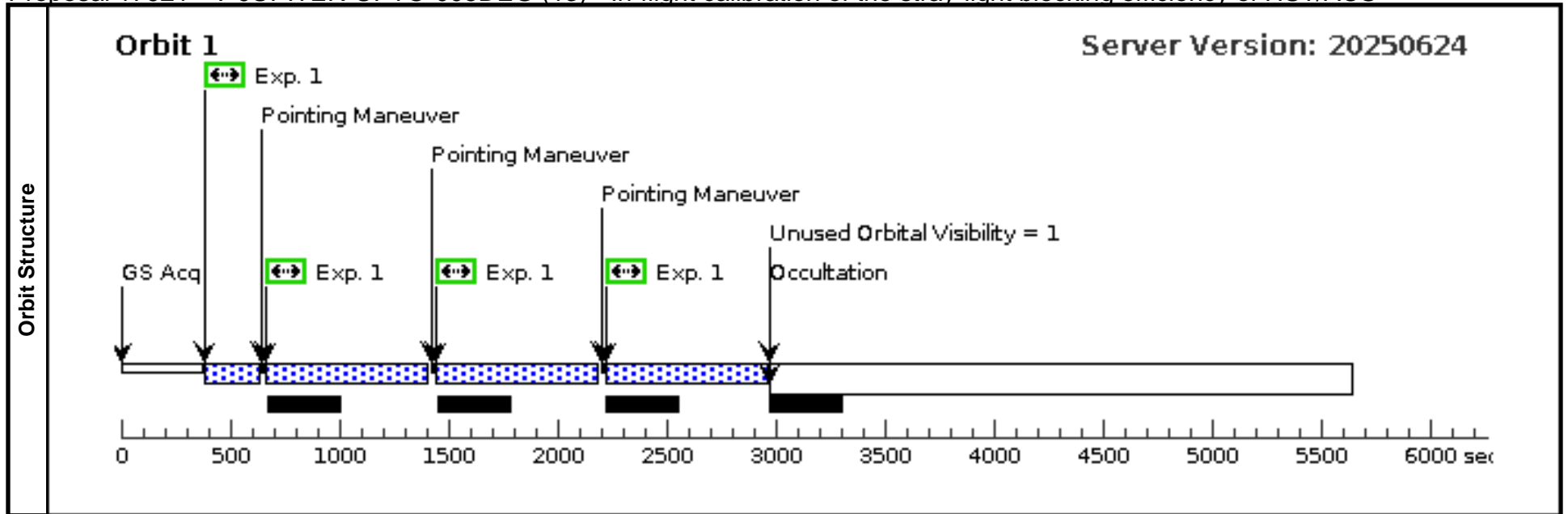
Visit	Proposal 17921, V_OFFSET-JUPITER-01DEG-PA60 (12), implementation Diagnostic Status: Informational Scientific Instruments: ACS/WFC Special Requirements: NOTRACK; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET <i>Comments: Observation at 0.1 degrees from Jupiter. Orientation between Jupiter and ACS X-axis PA = (60 degrees) or (150 degrees) or (240 degrees) or (330 degrees) +/- 15 degrees. Modified - 18 Aug 2025. Adding galactic latitude constrain. NOT BETWEEN b = -23 + 23. Removing PA = 60 ORIENT ranges due to schedulability issues.</i>									
	Diagnosics (V_OFFSET-JUPITER-01DEG-PA60 (12)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(4)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false					(1), (2)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(2)	OFFSET-JUPITER-01DEG	STD=JUPITER	TYPE=POS_ANGLE,RAD=360,ANG=0,REF=NORTH		NOT OCC OF OFFSET-JUPITER-01DEG BY JUPITER FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-01DEG BY IO FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-01DEG BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-01DEG BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF OFFSET-JUPITER-01DEG BY CALLISTO FROM EARTH, SEP OF OFFSET-JUPITER-01DEG MOON FROM EARTH GT 20D, SEP OF OFFSET-JUPITER-01DEG VENUS FROM EARTH GT 20D, PHASE OF JUPITER FROM EARTH BETWEEN 0 30, NOT GALACTIC LATITUDE OF OFFSET-JUPITER-01DEG FROM EARTH BETWEEN -23 23	EARTH			
<i>Comments: Any location at 0.1 degrees from the Jupiter. Position angle (level 2) is arbitrary. Set to 0 because APT does not accept empty values for position angle.0 Description=Jupiter at 0.1 degree from FOV Extended=NO</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) OFFSET-JUPITER-01DEG	ACS/WFC, ACCUM, WFC	F775W				Pattern 4, Exps 1-1 in V_OFFSET-JUPITER-01DEG-PA60 (1 2) (4)	500 Secs (951 Secs) [=>475.0 Secs (Pattern 1)] [=>476.0 Secs (Pattern 2)]	[1]
2	(2) OFFSET-JUPITER-01DEG	ACS/WFC, ACCUM, WFC	F775W		POS TARG null,90		Pattern 4, Exps 2-2 in V_OFFSET-JUPITER-01DEG-PA60 (1 2) (4)	500 Secs (952 Secs) [=>476.0 Secs (Pattern 1)] [=>476.0 Secs (Pattern 2)]	[1]	



Proposal 17921 - V-JUPITER-UPTO-005DEG (13) - In-flight calibration of the stray-light blocking efficiency of HST/ACS

Tue Sep 16 20:00:40 GMT 2025

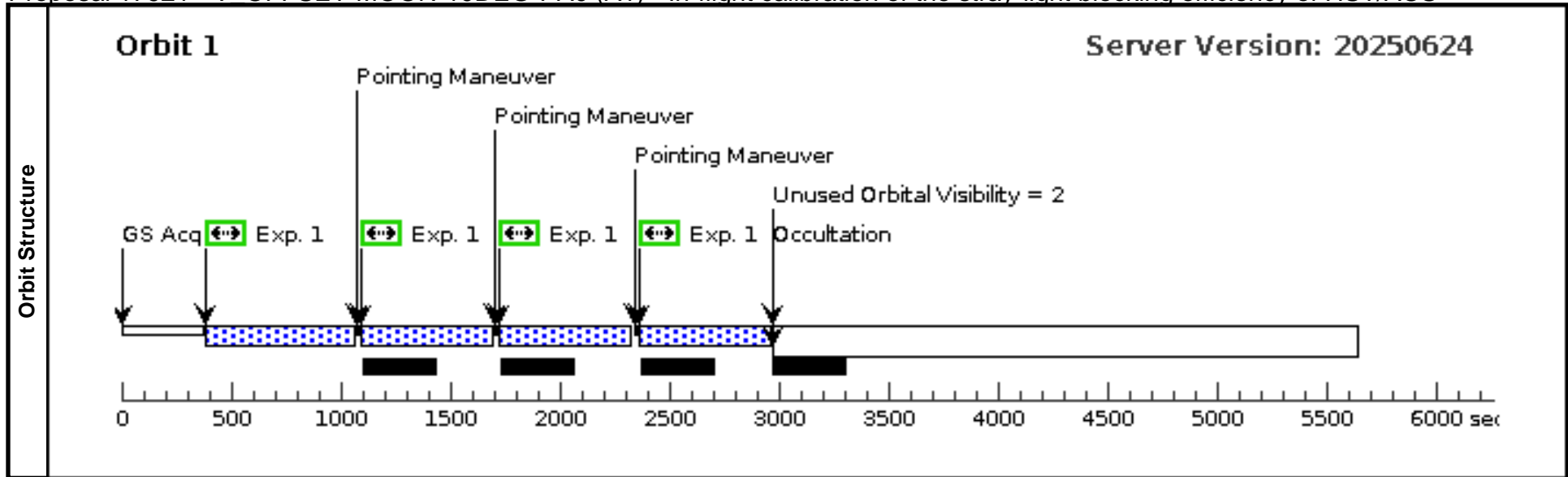
Visit	Proposal 17921, V-JUPITER-UPTO-005DEG (13), implementation Diagnostic Status: Informational Scientific Instruments: ACS/WFC Special Requirements: NOTRACK; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET <i>Comments: Mosaic including Jupiter in a corner, extending up to 0.05 degrees from Jupiter. Modified - 18 Aug 2025. Adding galactic latitude constrain. NOT BETWEEN b = -23 + 23.</i>									
	(V-JUPITER-UPTO-005DEG (13)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
	(3)	Pattern Type=SPIRAL Purpose=MOSAIC Number Of Points=4 Point Spacing=90 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=false			(1)				
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(1)	JUPITER-SCAN	STD=JUPITER			NOT ECL P PARTIAL OF JUPITER-SCAN BY IO FROM EARTH, NOT ECL P PARTIAL OF JUPITER-SCAN BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF JUPITER-SCAN BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF JUPITER-SCAN BY CALLISTO FROM EARTH, SEP OF JUPITER-SCAN MOON FROM EARTH GT 20D, SEP OF JUPITER-SCAN VENUS FROM EARTH GT 20D, PHASE OF JUPITER FROM EARTH BETWEEN 0 30, NOT GALACTIC LATITUDE OF JUPITER-SCAN FROM EARTH BETWEEN -23 23	EARTH			
<i>Comments: Mosaic including Jupiter up to 0.05 degree from FOV Description=Mosaic including Jupiter up to 0.05 degree from FOV Extended=NO</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) JUPITER-SCAN	ACS/WFC, ACCUM, WFC	F775W		POS TARG 55,45	Pattern 3, Exps 1-1 in V-JUPITER-UPTO-005DEG (13) (3)	500 Secs (1858.5 Secs) [=>0.5 Secs (Pattern 1)] [=>619.0 Secs (Pattern 2)] [=>619.0 Secs (Pattern 3)] [=>620.0 Secs (Pattern 4)]	[1]	



Proposal 17921 - V OFFSET-MOON-10DEG-PA0 (A1) - In-flight calibration of the stray-light blocking efficiency of HST/ACS

Tue Sep 16 20:00:40 GMT 2025

Visit	Proposal 17921, V_OFFSET-MOON-10DEG-PA0 (A1), withdrawn									
	Diagnostic Status: Informational Scientific Instruments: ACS/WFC Special Requirements: NOTRACK; ORIENT 0.001D TO 15 D; ORIENT 345D TO 360 D; ORIENT 75D TO 105 D; ORIENT 165D TO 195 D; ORIENT 255D TO 285 D; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET <i>Comments: Observation at 10 degrees from the Moon. Orientation between Moon and ACS X-axis PA = (0 degrees) or (90 degrees) or (180 degrees) or (270 degrees) +/- 15 degrees.</i>									
Diagnostics	(V_OFFSET-MOON-10DEG-PA0 (A1)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
	(5)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.2637 Line Spacing=0.1856	Coordinate Frame=POS-TARG Pattern Orientation=20.7 Angle Between Sides=69.02 Center Pattern=false			(1)				
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(7)	OFFSET-MOON-10DEG	STD=EARTH	STD=MOON	TYPE=POS_ANGLE,RAD=36000,ANG=0,REF=NORTH	PHASE OF MOON FROM HUBBLE BETWEEN 0 30, SEP OF OFFSET-MOON-10DEG JUPITER FROM EARTH GT 10D, SEP OF OFFSET-MOON-10DEG VENUS FROM EARTH GT 20D, NOT GALACTIC LATITUDE OF OFFSET-MOON-10DEG FROM EARTH BETWEEN -23 23 MOSS Planning Start: 10-JUN-2025:00:00:00 MOSS Planning End: 15-JUN-2025:00:00:00	HUBBLE			
<i>Comments: Any location at 10 degrees from the Moon. Position angle (level 3) is arbitrary. Set to 0 because APT does not accept empty values for position angle.</i> Description=Moon at 10 degrees from FOV Extended=NO										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	OFFSET-MOON-10DEG-PA0-1	(7) OFFSET-MOON-10DEG	ACS/WFC, ACCUM, WFC	F775W				Pattern 5, Exps 1-1 in V_OFFSET-MOON-10DEG-PA0 (A1) (5) 500 Secs (1903 Secs) [==>475.0 Secs (Pattern 1)] [==>476.0 Secs (Pattern 2)] [==>476.0 Secs (Pattern 3)] [==>476.0 Secs (Pattern 4)]	[1]



Proposal 17921 - V_OFFSET-MOON-15DEG-PA0 (A3) - In-flight calibration of the stray-light blocking efficiency of HST/ACS

Tue Sep 16 20:00:40 GMT 2025

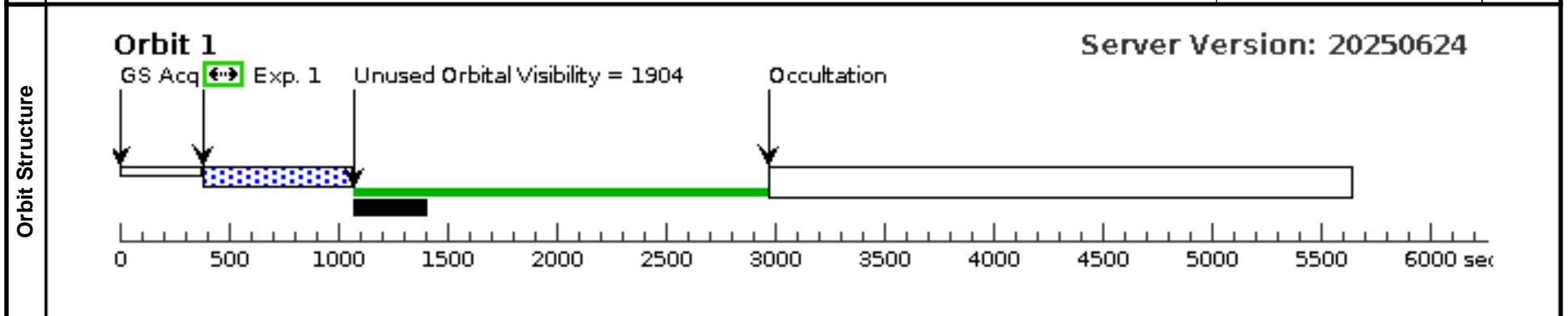
Visit
Proposal 17921, V_OFFSET-MOON-15DEG-PA0 (A3), withdrawn
Diagnostic Status: Informational
 Scientific Instruments: ACS/WFC
 Special Requirements: NOTRACK; ORIENT 0.001D TO 15 D; ORIENT 345D TO 360 D; ORIENT 75D TO 105 D; ORIENT 165D TO 195 D; ORIENT 255D TO 285 D; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET
Comments: Observation at 15 degrees from the Moon. Orientation between Moon and ACS X-axis PA = (0 degrees) or (90 degrees) or (180 degrees) or (270 degrees) +/- 15 degrees.

Diagnostics
 (V_OFFSET-MOON-15DEG-PA0 (A3)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(6)	OFFSET-MOON-15DEG	STD=EARTH	STD=MOON	TYPE=POS_ANGLE,RAD=54000,ANG=0,REF=NORTH	PHASE OF MOON FROM HUBBLE BETWEEN 0 30, SEP OF OFFSET-MOON-15DEG JUPITER FROM EARTH GT 10D, SEP OF OFFSET-MOON-15DEG VENUS FROM EARTH GT 20D, NOT GALACTIC LATITUDE OF OFFSET-MOON-15DEG FROM EARTH BETWEEN -23 23 MOSS Planning Start: 06-OCT-2025:00:00:00 MOSS Planning End: 12-OCT-2025:00:00:00	HUBBLE

*Comments: Any location at 15 degrees from the Moon. Position angle (level 3) is arbitrary. Set to 0 because APT does not accept empty values for position angle.
 Description=Moon at 15 degrees from FOV
 Extended=NO*

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	OFFSET-MOON-15DEG-PA0	(6) OFFSET-MOON-15DEG	ACS/WFC, ACCUM, WFC	F775W				500 Secs (475 Secs) [=>475.0 Secs]	[1]



Proposal 17921 - V OFFSET-MOON-20DEG-PA0 (A4) - In-flight calibration of the stray-light blocking efficiency of HST/ACS

Tue Sep 16 20:00:40 GMT 2025

Visit	Proposal 17921, V_OFFSET-MOON-20DEG-PA0 (A4), withdrawn Diagnostic Status: Informational Scientific Instruments: ACS/WFC Special Requirements: NOTRACK; ORIENT 0.001D TO 15 D; ORIENT 345D TO 360 D; ORIENT 75D TO 105 D; ORIENT 165D TO 195 D; ORIENT 255D TO 285 D; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET <i>Comments: Observation at 20 degrees from the Moon. Orientation between Moon and ACS X-axis PA = (0 degrees) or (90 degrees) or (180 degrees) or (270 degrees) +/- 15 degrees.</i>									
	Diagnosics (V_OFFSET-MOON-20DEG-PA0 (A4)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
	(5)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.2637 Line Spacing=0.1856	Coordinate Frame=POS-TARG Pattern Orientation=20.7 Angle Between Sides=69.02 Center Pattern=false			(1)				
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(5)	OFFSET-MOON-20DEG	STD=EARTH	STD=MOON	TYPE=POS_ANGLE,RAD=72000,ANG=0,REF=NORTH	PHASE OF MOON FROM HUBBLE BETWEEN 0 30, SEP OF OFFSET-MOON-20DEG JUPITER FROM EARTH GT 10D, SEP OF OFFSET-MOON-20DEG VENUS FROM EARTH GT 20D, NOT GALACTIC LATITUDE OF OFFSET-MOON-20DEG FROM EARTH BETWEEN -23 23 MOSS Planning Start: 10-JUN-2025:00:00:00 MOSS Planning End: 15-JUN-2025:00:00:00	HUBBLE			
<i>Comments: Any location at 20 degrees from the Moon. Position angle (level 3) is arbitrary. Set to 0 because APT does not accept empty values for position angle.</i> Description=Moon at 20 degrees from FOV Extended=NO										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	OFFSET-MOON-20DEG-PA0	(5) OFFSET-MOON-20DEG	ACS/WFC, ACCUM, WFC	F775W			Pattern 5, Exps 1-1 in V_OFFSET-MOON-20DEG-PA0 (A4) (5)	500 Secs (1903 Secs) [==>475.0 Secs (Pattern 1)] [==>476.0 Secs (Pattern 2)] [==>476.0 Secs (Pattern 3)] [==>476.0 Secs (Pattern 4)]	[1]

