17997 - STELa: Survey of Transiting Exoplanets in Lyman-alpha

Cycle: 33, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) TOI-1759 WAVE	STIS/CCD STIS/FUV-MAMA	2	22-Sep-2026 13:00:17.0	yes
02	(1) TOI-1759 WAVE	STIS/CCD STIS/FUV-MAMA	5	22-Sep-2026 13:00:18.0	yes
03	(2) L98-59 WAVE	STIS/CCD STIS/FUV-MAMA	2	22-Sep-2026 13:00:19.0	yes
04	(2) L98-59 WAVE	STIS/CCD STIS/FUV-MAMA	5	22-Sep-2026 13:00:21.0	yes
05	(2) L98-59 WAVE	STIS/CCD STIS/FUV-MAMA	2	22-Sep-2026 13:00:22.0	yes
06	(2) L98-59 WAVE	STIS/CCD STIS/FUV-MAMA	5	22-Sep-2026 13:00:23.0	yes
07	(3) TOI-1231 WAVE	STIS/CCD STIS/FUV-MAMA	2	22-Sep-2026 13:00:24.0	yes
08	(3) TOI-1231 WAVE	STIS/CCD STIS/FUV-MAMA	5	22-Sep-2026 13:00:25.0	yes
09	(4) HD63935 WAVE	STIS/CCD STIS/FUV-MAMA	2	22-Sep-2026 13:00:26.0	yes
10	(4) HD63935 WAVE	STIS/CCD STIS/FUV-MAMA	5	22-Sep-2026 13:00:28.0	yes
11	(4) HD63935 WAVE	STIS/CCD STIS/FUV-MAMA	2	22-Sep-2026 13:00:29.0	yes
12	(4) HD63935 WAVE	STIS/CCD STIS/FUV-MAMA	5	22-Sep-2026 13:00:30.0	yes
13	(5) HD42813 WAVE	STIS/CCD STIS/FUV-MAMA	2	22-Sep-2026 13:00:30.0	yes
14	(5) HD42813 WAVE	STIS/CCD STIS/FUV-MAMA	5	22-Sep-2026 13:00:32.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
15	(6) TOI-421 WAVE	STIS/CCD STIS/FUV-MAMA	2	22-Sep-2026 13:00:33.0	yes
16	(6) TOI-421 WAVE	STIS/CCD STIS/FUV-MAMA	5	22-Sep-2026 13:00:34.0	yes
17	(7) LTT1445A WAVE	STIS/CCD STIS/FUV-MAMA	2	22-Sep-2026 13:00:35.0	yes
18	(7) LTT1445A WAVE	STIS/CCD STIS/FUV-MAMA	5	22-Sep-2026 13:00:36.0	yes

63 Total Orbits Used

ABSTRACT

Atmospheric escape is a key process that sculpts the exoplanetary population, especially for planets smaller than Neptune. Transit observations in the Lyman-alpha line allow for direct studies of atmospheric escape, but progress is reaching the limit of what is possible with small programs targeting one or two new planets at a time. To advance atmospheric escape studies into a new statistical regime, we propose the Survey of Transiting Exoplanets in Lyman-alpha (STELa), a Multi-Cycle Treasury program aimed at efficiently probing atmospheric escape across the entire exoplanetary population using a proven reconnaissance-detection-characterization strategy. STELa's statistical sample will map the role of mass loss throughout the population of known exoplanets, investigate the nature of "transitional" worlds such as those in near radius valley, and probe the physical mechanism driving the atmospheric erosion of sub-Neptunes. A wide array of treasury science will be possible with the STELa dataset, including a new 3D map of the local interstellar medium, the first survey of stellar wind strengths within the astropause, an atlas of host star XUV spectra in the mass-rotation plane, and investigations of exosphere-thermosphere-lower atmosphere connections through synergies with He 10830 and JWST observations. Implementing a broad Lyman-alpha transit survey now is essential to enable the scientific leap from ``stamp collecting" to population science within the limited remaining life of the only observatory capable of these observations.

OBSERVING DESCRIPTION

Stage 2 (Cycle 33) observations will observe the Lya transits of target planets using two visit sets of 2 + 5 exposures. The first visit will establish the pre-transit baseline clear of any early ingress. Following an SAA passage, the second visit will measure transit absorption. May be offset from mid-optical-transit when this is predicted to yield deeper transit absorption due to radial acceleration of the absorption material into the visible blue wing of stellar Lya line.

Because Stage 1 (Cycle 32) of the STELa program is ongoing, targets will be added periodically to successive programs throughout Cycle 33 based on a selection process that relies on Stage 1 observations.

The second visit in a set may be offset from mid-optical-transit when this is predicted to increase the detectability of a transit signal based on a grid of simulations where a cometary tail is pushed by the stellar wind.

STIS G140M observations will be used in most cases, with the 52x0.2 aperture chosen to balance throughput stability with limiting airglow contamination. COS G130M might be used in some cases where the target flux is sufficient that using COS is not expected to significantly degrade Lya SNR, thereby enabling simultaneous measurement of the planetary transit in metal lines. STIS E140M may be used in some instances for detector safety. The program will use the long slit apertures for E140M to facilitate Lya airglow subtraction.

Visit

Proposal 17997, TOI-1759 b Baseline (01), implementation Tue Sep 22 17:00:37 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=true		(2)
(2)	Pattern Type=LINE Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=270 Angle Between Sides= Center Pattern=true		(4)

Fixed Targets

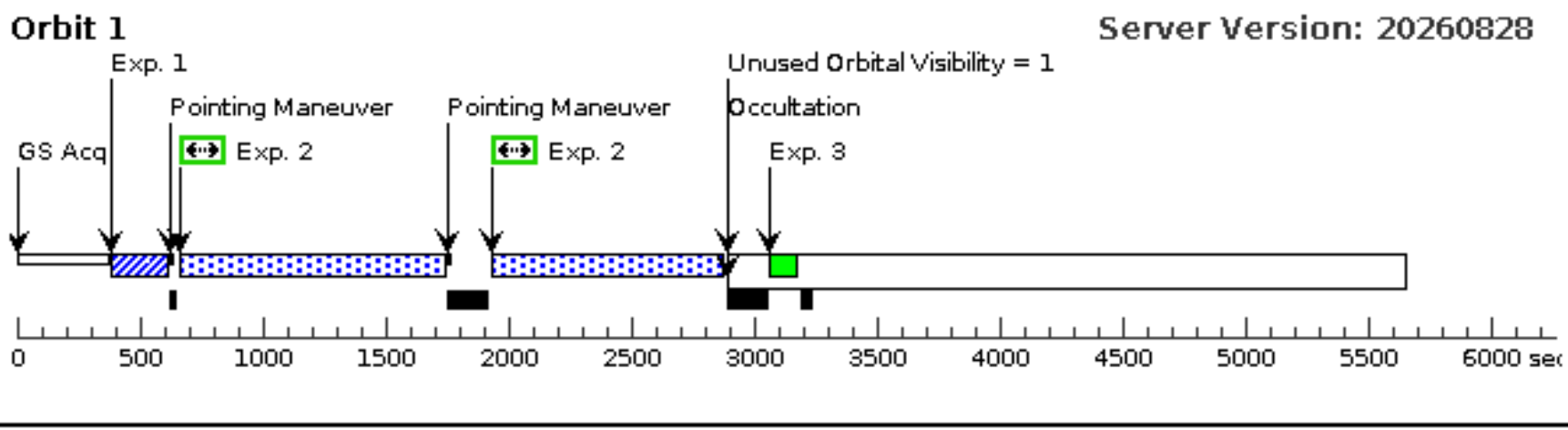
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	TOI-1759	RA: 21 47 24.7901 (326.8532921d) Dec: +62 45 13.90 (62.75386d) Equinox: J2000	Proper Motion RA: -173.425 mas/yr Proper Motion Dec: -10.654 mas/yr Parallax: 0.0249224" Epoch of Position: 2000.0 Radial Velocity: -61.33 km/sec	V=11.93+/-0.1 G=10.83, NUV=20.61	Reference Frame: ICRS

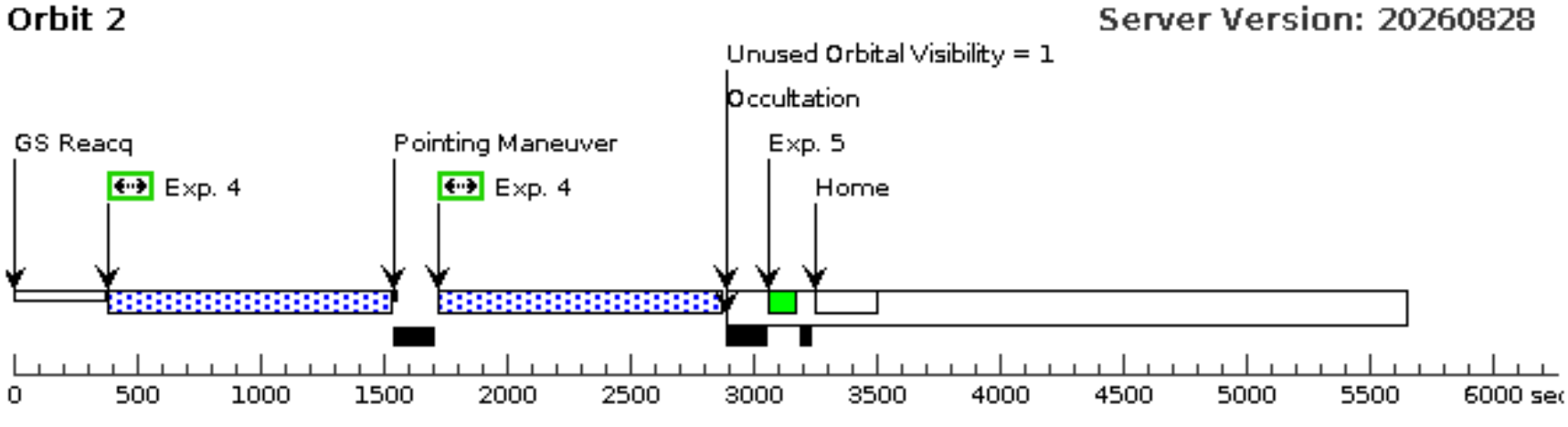
Comments:
Category=STAR
Description=[M V-IV, EXTRA-SOLAR PLANETARY SYSTEM]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(2026272)	(1) TOI-1759	STIS/CCD, ACQ, F28X50LP	MIRROR				0.4 Secs (0.4 Secs) *[==>]*	***[1]***
2	(2026273)	(1) TOI-1759	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10163; WAVECAL=NO		Pattern 1, Exps 2-2 in TOI-1759 b Baseline (01) (1)	700 Secs (1854 Secs) *[==>927.0 Secs (Pattern 1)]* *[==>927.0 Secs (Pattern 2)]*	***[1]***
3		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[1]***
4	(2026273)	(1) TOI-1759	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10163; WAVECAL=NO		Pattern 2, Exps 4-4 in TOI-1759 b Baseline (01) (2)	700 Secs (2272 Secs) *[==>1136.0 Secs (Pattern 1)]* *[==>1136.0 Secs (Pattern 2)]*	***[2]***
5		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[2]***

Orbit Structure





Visit

Proposal 17997, TOI-1759 b Transit (02), implementation Tue Sep 22 17:00:37 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%; AFTER 01 BY 6 H TO 24 H; Period 18.849975 D AND ZERO-PHASE HJD2458745.4661

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=true		(2), (6), (10)
(2)	Pattern Type=LINE Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=270 Angle Between Sides= Center Pattern=true		(4), (8)

Fixed Targets

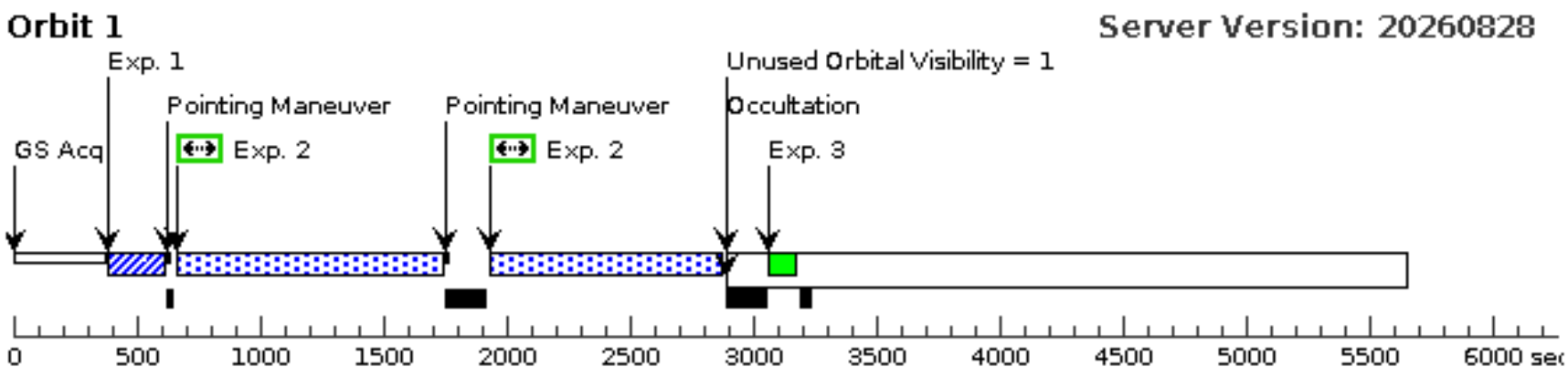
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	TOI-1759	RA: 21 47 24.7901 (326.8532921d) Dec: +62 45 13.90 (62.75386d) Equinox: J2000	Proper Motion RA: -173.425 mas/yr Proper Motion Dec: -10.654 mas/yr Parallax: 0.0249224" Epoch of Position: 2000.0 Radial Velocity: -61.33 km/sec	V=11.93+/-0.1 G=10.83, NUV=20.61	Reference Frame: ICRS

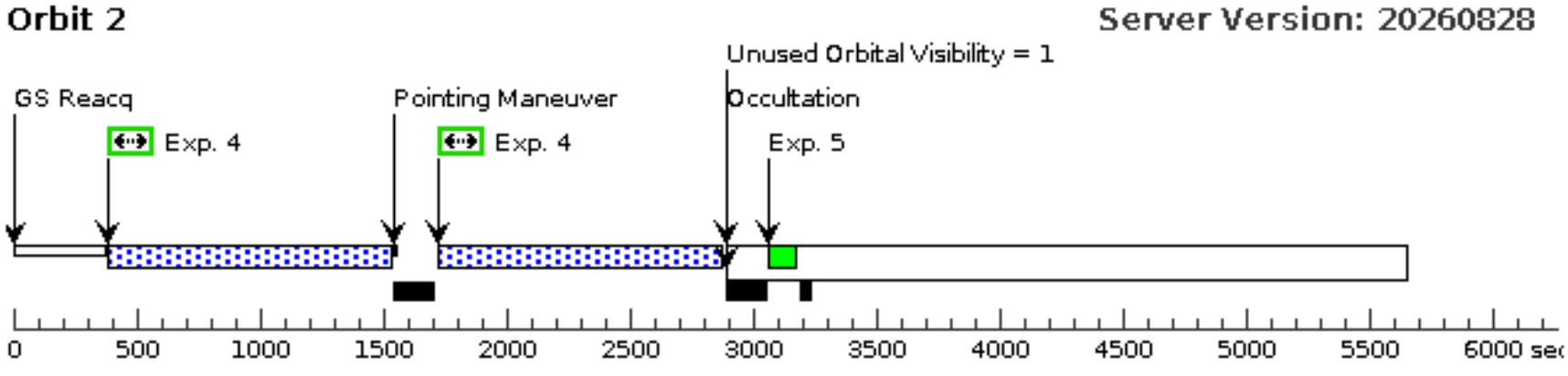
Comments:
Category=STAR
Description=[M V-IV, EXTRA-SOLAR PLANETARY SYSTEM]

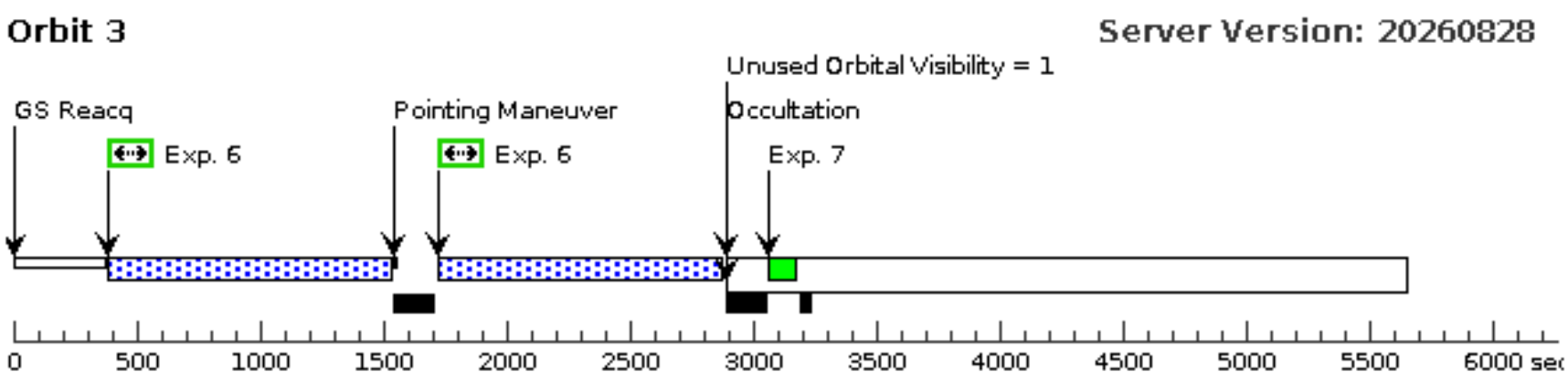
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(2026272)	(1) TOI-1759	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.98998119 80298825 TO 0.9944 020703829404		0.4 Secs (0.4 Secs) *[==>]*	***[1]***
2	(2026273)	(1) TOI-1759	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10163; WAVECAL=NO		Pattern 1, Exps 2-2 in TOI-1759 b Transit (02) (1)	700 Secs (1854 Secs) *[==>927.0 Secs (Pattern 1)]* *[==>927.0 Secs (Pattern 2)]*	***[1]***
3		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[1]***
4	(2026273)	(1) TOI-1759	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10163; WAVECAL=NO		Pattern 2, Exps 4-4 in TOI-1759 b Transit (02) (2)	700 Secs (2272 Secs) *[==>1136.0 Secs (Pattern 1)]* *[==>1136.0 Secs (Pattern 2)]*	***[2]***
5		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[2]***
6	(2026273)	(1) TOI-1759	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10163; WAVECAL=NO		Pattern 1, Exps 6-6 in TOI-1759 b Transit (02) (1)	700 Secs (2272 Secs) *[==>1136.0 Secs (Pattern 1)]* *[==>1136.0 Secs (Pattern 2)]*	***[3]***
7		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[3]***
8	(2026273)	(1) TOI-1759	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10163; WAVECAL=NO		Pattern 2, Exps 8-8 in TOI-1759 b Transit (02) (2)	700 Secs (2272 Secs) *[==>1136.0 Secs (Pattern 1)]* *[==>1136.0 Secs (Pattern 2)]*	***[4]***
9		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[4]***
10	(2026273)	(1) TOI-1759	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10163; WAVECAL=NO		Pattern 1, Exps 10-10 in TOI-1759 b Transit (02) (1)	700 Secs (2272 Secs) *[==>1136.0 Secs (Pattern 1)]* *[==>1136.0 Secs (Pattern 2)]*	***[5]***
11		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[5]***

Orbit Structure



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Pointing Maneuver
Occultation
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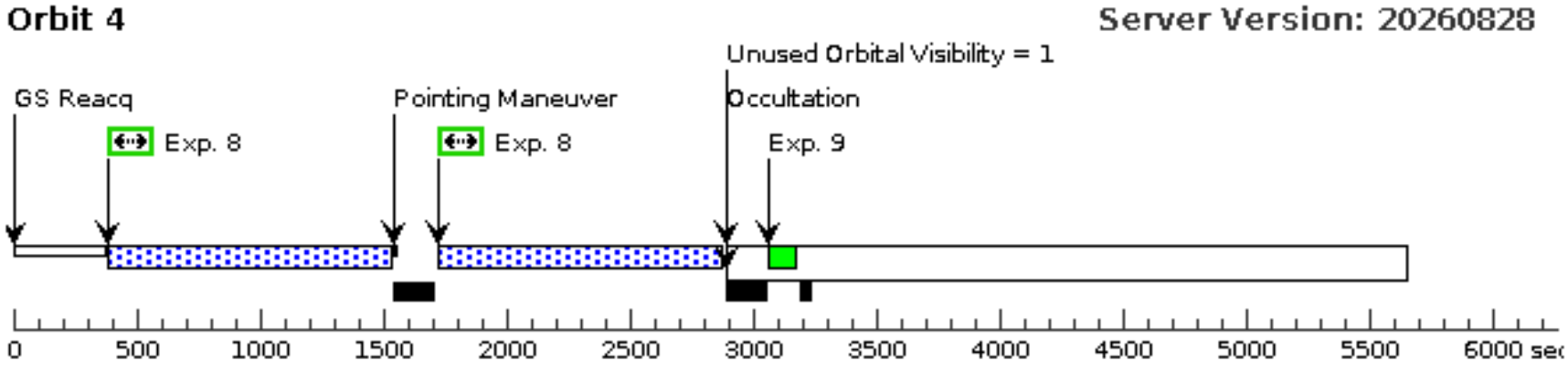
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Pointing Maneuver
Occultation
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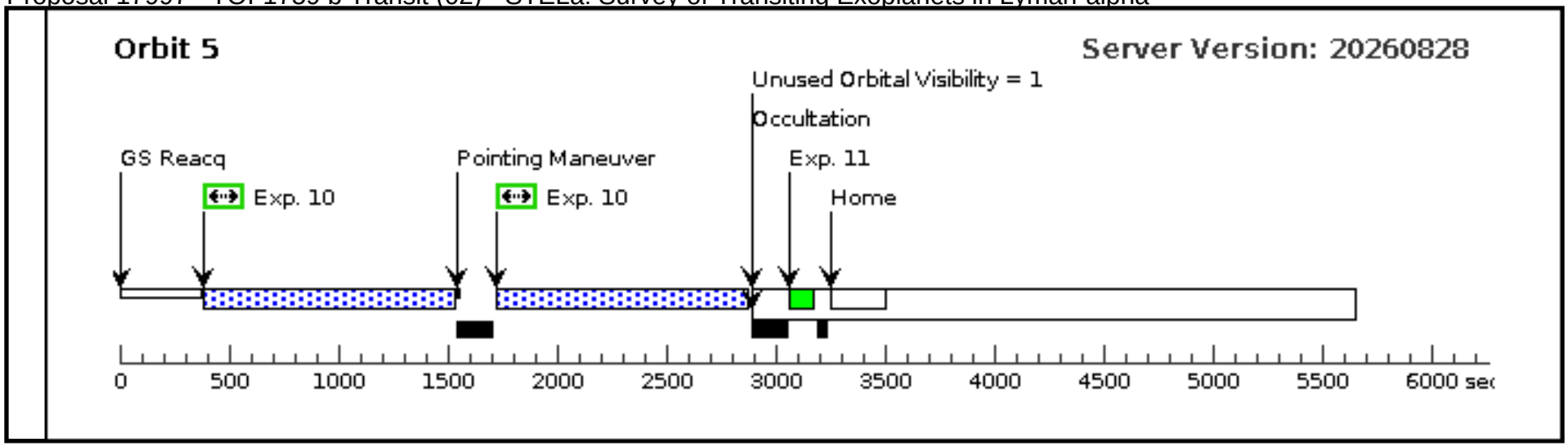
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Pointing Maneuver
Exp. 10
Exp. 11
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1500
2000
2500
3000
3500
4000
4500
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6000 sec

Visit

Proposal 17997, L98-59 c Baseline (03), completed Tue Sep 22 17:00:37 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=true		(3)
(2)	Pattern Type=LINE Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=270 Angle Between Sides= Center Pattern=true		(6)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	L98-59	RA: 08 18 7.6214 (124.5317558d) Dec: -68 18 46.81 (-68.31300d) Equinox: J2000	Proper Motion RA: 94.794 mas/yr Proper Motion Dec: -340.08400002676353 mas/yr Parallax: 0.0942664" Epoch of Position: 2000	V=11.685	Reference Frame: ICRS

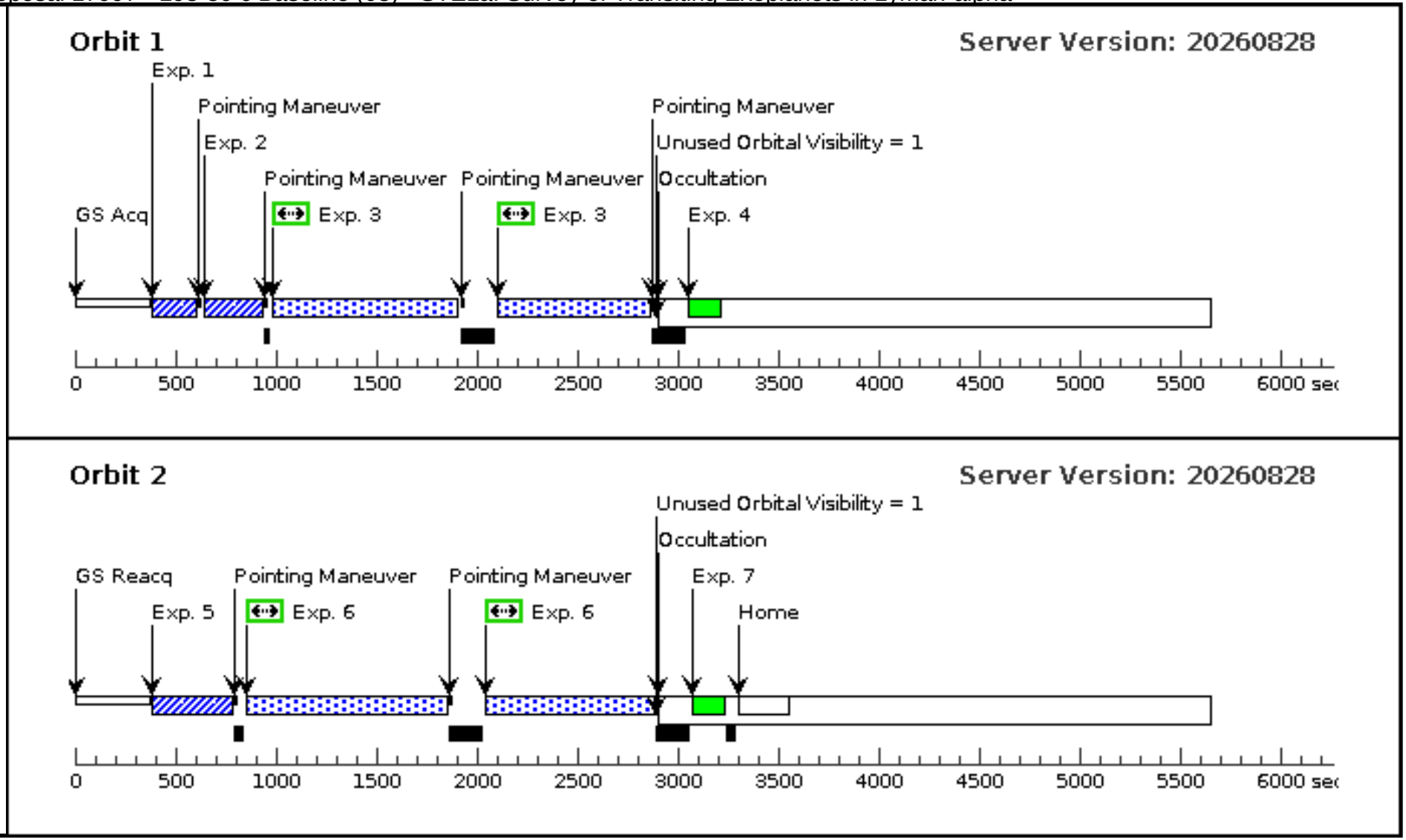
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=STAR
Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(2026274)	(2) L98-59	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	 ***[1]***
2	(2299324)	(2) L98-59	STIS/CCD, ACQ/PEAK, 52X0.05D1	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	 ***[1]***
3	(2026275)	(2) L98-59	STIS/FUV-MAMA, TIME-TAG, 52X0.5D1	G140M 1222 A	BUFFER-TIME=10171; WAVECAL=NO		Pattern 1, Exps 3-3 in L98-59 c Baseline (03) (1)	700 Secs (1492 Secs) *[==>746.0 Secs (Pattern 1)]* *[==>746.0 Secs (Pattern 2)]*	 ***[1]***
4		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1222 A				*[==>]*	***[1]***
5	(2299324)	(2) L98-59	STIS/CCD, ACQ/PEAK, 52X0.05D1	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	 ***[2]***
6	(2026275)	(2) L98-59	STIS/FUV-MAMA, TIME-TAG, 52X0.5D1	G140M 1222 A	BUFFER-TIME=10171; WAVECAL=NO		Pattern 2, Exps 6-6 in L98-59 c Baseline (03) (2)	700 Secs (1654 Secs) *[==>827.0 Secs (Pattern 1)]* *[==>827.0 Secs (Pattern 2)]*	 ***[2]***
7		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1222 A				*[==>]*	***[2]***

Orbit Structure



Visit

Proposal 17997, L98-59 c Transit (04), completed Tue Sep 22 17:00:37 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%; AFTER 03 BY 6 H TO 24 H; Period 3.6906764 D AND ZERO-PHASE HJD2458367.27303

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=true		(3), (9), (15)
(2)	Pattern Type=LINE Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=270 Angle Between Sides= Center Pattern=true		(6), (12)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	L98-59	RA: 08 18 7.6214 (124.5317558d) Dec: -68 18 46.81 (-68.31300d) Equinox: J2000	Proper Motion RA: 94.794 mas/yr Proper Motion Dec: -340.08400002676353 mas/yr Parallax: 0.0942664" Epoch of Position: 2000	V=11.685	Reference Frame: ICRS

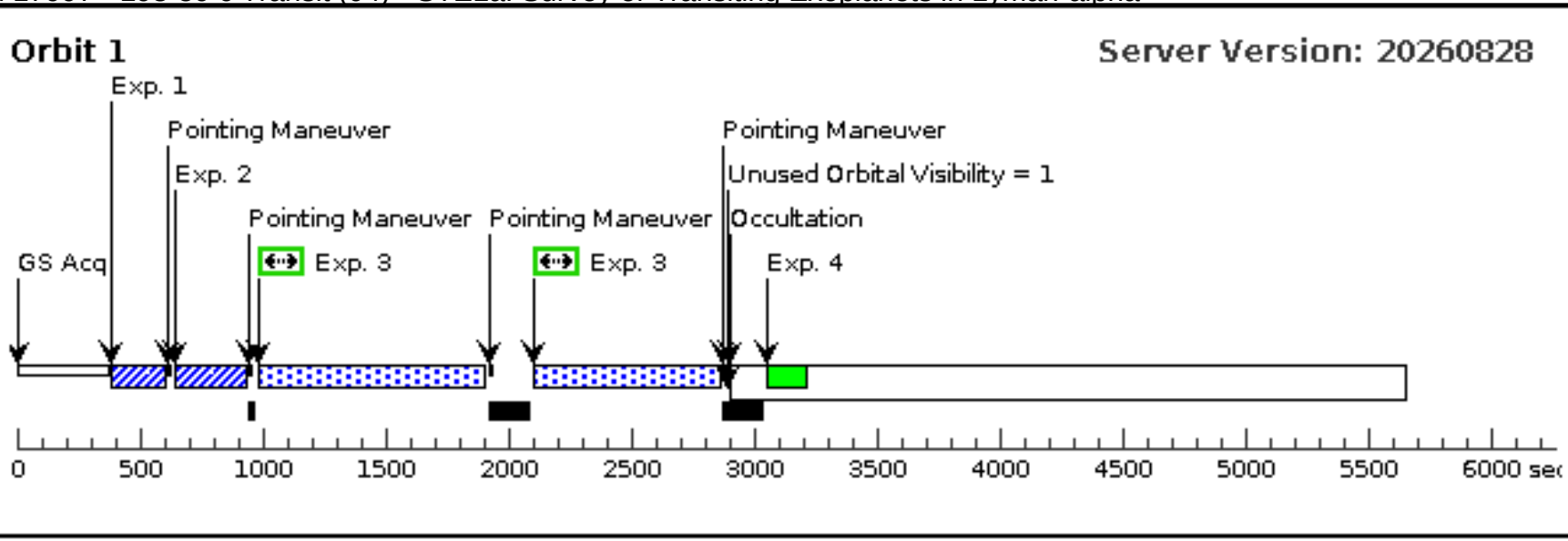
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

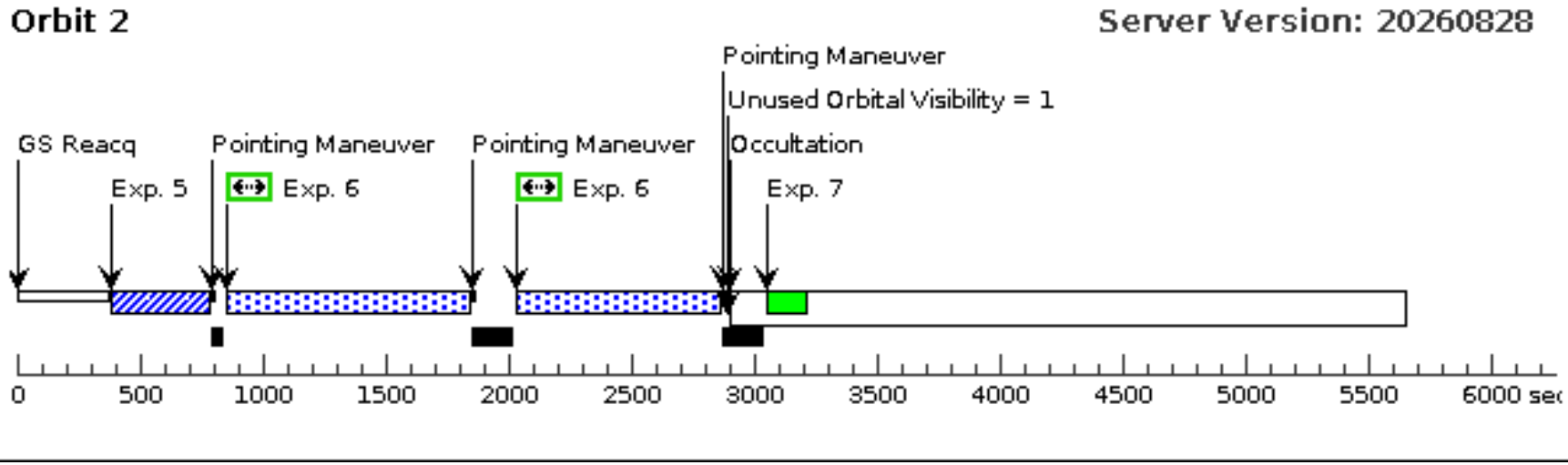
SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=STAR
Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]

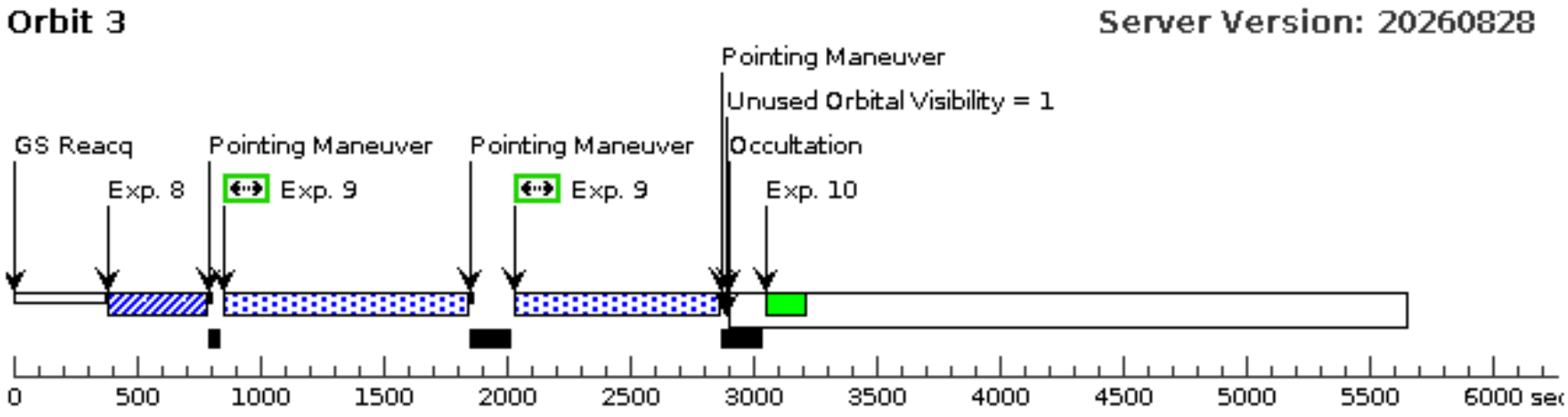
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(2026274)	(2) L98-59	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.96011909 90356131 TO 0.9826 985192560728		0.1 Secs (0.1 Secs) *[==>]*	***[1]***
2	(2299324)	(2) L98-59	STIS/CCD, ACQ/PEAK, 52X0.05D1	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	***[1]***
3	(2026275)	(2) L98-59	STIS/FUV-MAMA, TIME-TAG, 52X0.5D1	G140M 1222 A	BUFFER-TIME=10171; WAVECAL=NO		Pattern 1, Exps 3-3 in L98-59 c Transit (04) (1)	700 Secs (1492 Secs) *[==>746.0 Secs (Pattern 1)]* *[==>746.0 Secs (Pattern 2)]*	***[1]***
4		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1222 A				*[==>]*	***[1]***
5	(2299324)	(2) L98-59	STIS/CCD, ACQ/PEAK, 52X0.05D1	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	***[2]***
6	(2026275)	(2) L98-59	STIS/FUV-MAMA, TIME-TAG, 52X0.5D1	G140M 1222 A	BUFFER-TIME=10171; WAVECAL=NO		Pattern 2, Exps 6-6 in L98-59 c Transit (04) (2)	700 Secs (1634 Secs) *[==>817.0 Secs (Pattern 1)]* *[==>817.0 Secs (Pattern 2)]*	***[2]***
7		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1222 A				*[==>]*	***[2]***
8	(2299324)	(2) L98-59	STIS/CCD, ACQ/PEAK, 52X0.05D1	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	***[3]***
9	(2026275)	(2) L98-59	STIS/FUV-MAMA, TIME-TAG, 52X0.5D1	G140M 1222 A	BUFFER-TIME=10171; WAVECAL=NO		Pattern 1, Exps 9-9 in L98-59 c Transit (04) (1)	700 Secs (1634 Secs) *[==>817.0 Secs (Pattern 1)]* *[==>817.0 Secs (Pattern 2)]*	***[3]***
10		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1222 A				*[==>]*	***[3]***
11	(2299324)	(2) L98-59	STIS/CCD, ACQ/PEAK, 52X0.05D1	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	***[4]***
12	(2026275)	(2) L98-59	STIS/FUV-MAMA, TIME-TAG, 52X0.5D1	G140M 1222 A	BUFFER-TIME=10171; WAVECAL=NO		Pattern 2, Exps 12-12 in L98-59 c Transit (04) (2)	700 Secs (1634 Secs) *[==>817.0 Secs (Pattern 1)]* *[==>817.0 Secs (Pattern 2)]*	***[4]***
13		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1222 A				*[==>]*	***[4]***
14	(2299324)	(2) L98-59	STIS/CCD, ACQ/PEAK, 52X0.05D1	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	***[5]***
15	(2026275)	(2) L98-59	STIS/FUV-MAMA, TIME-TAG, 52X0.5D1	G140M 1222 A	BUFFER-TIME=10171; WAVECAL=NO		Pattern 1, Exps 15-15 in L98-59 c Transit (04) (1)	700 Secs (1654 Secs) *[==>827.0 Secs (Pattern 1)]* *[==>827.0 Secs (Pattern 2)]*	***[5]***
16		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1222 A				*[==>]*	***[5]***

Orbit Structure



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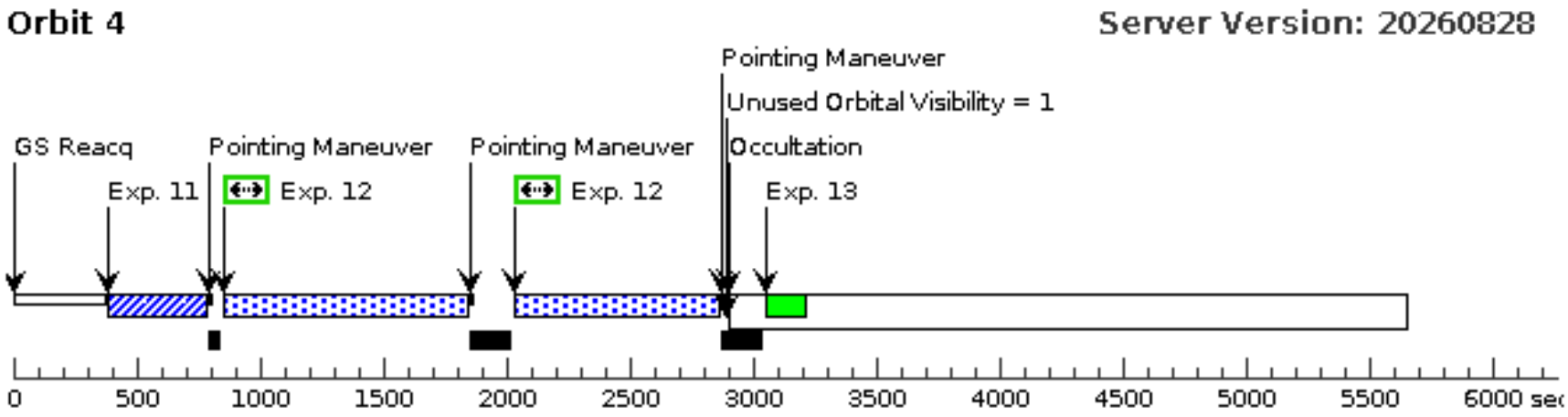
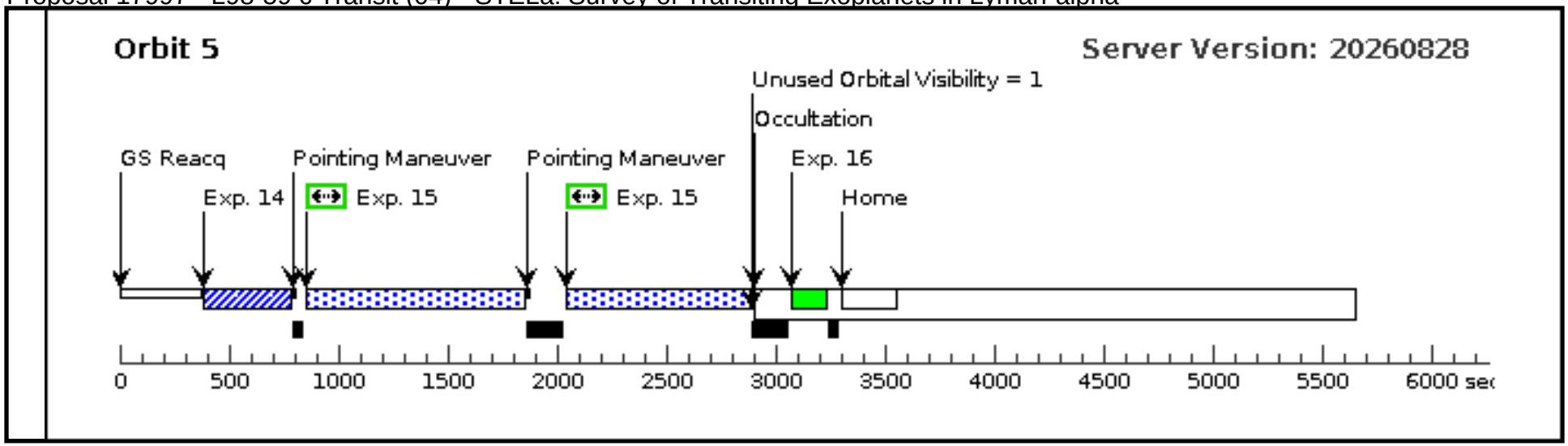
Pointing Maneuver
Unused Orbital Visibility = 1
GS Reacq
Pointing Maneuver
Pointing Maneuver
Occultation
Exp. 8
Exp. 9
Exp. 9
Exp. 10
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 4
Server Version: 20260828
Pointing Maneuver
Unused Orbital Visibility = 1
GS Reacq
Pointing Maneuver
Pointing Maneuver
Occultation
Exp. 11
Exp. 12
Exp. 12
Exp. 13
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 5
Server Version: 20260828
Unused Orbital Visibility = 1
Occultation
GS Reacq
Pointing Maneuver
Pointing Maneuver
Exp. 16
Exp. 14
Exp. 15
Exp. 15
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17997, L98-59 d Baseline (05), implementation Tue Sep 22 17:00:37 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=true		(2)
(2)	Pattern Type=LINE Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=270 Angle Between Sides= Center Pattern=true		(4)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	L98-59	RA: 08 18 7.6214 (124.5317558d) Dec: -68 18 46.81 (-68.31300d) Equinox: J2000	Proper Motion RA: 94.794 mas/yr Proper Motion Dec: -340.08400002676353 mas/yr Parallax: 0.0942664" Epoch of Position: 2000	V=11.685	Reference Frame: ICRS

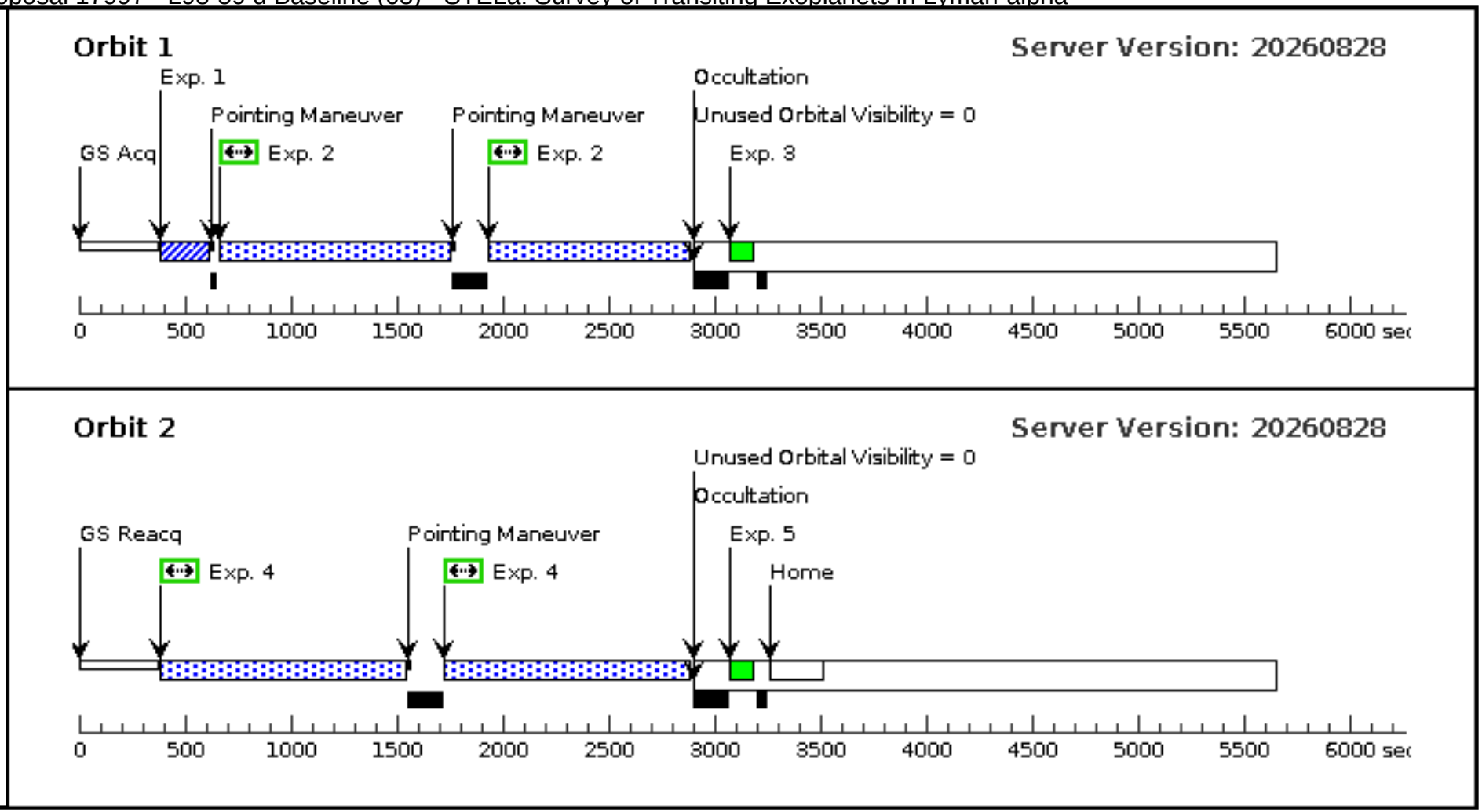
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=STAR
Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(2026274)	(2) L98-59	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	***[1]***
2	(2026275)	(2) L98-59	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10171; WAVECAL=NO		Pattern 1, Exps 2-2 in L98-59 d Baseline (05) (1)	700 Secs (1864 Secs) *[==>932.0 Secs (Pattern 1)]* *[==>932.0 Secs (Pattern 2)]*	***[1]***
3		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[1]***
4	(2026275)	(2) L98-59	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10171; WAVECAL=NO		Pattern 2, Exps 4-4 in L98-59 d Baseline (05) (2)	700 Secs (2282 Secs) *[==>1141.0 Secs (Pattern 1)]* *[==>1141.0 Secs (Pattern 2)]*	***[2]***
5		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[2]***

Orbit Structure



Visit

Proposal 17997, L98-59 d Transit (06), implementation Tue Sep 22 17:00:37 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%; AFTER 05 BY 6 H TO 24 H; Period 7.4507305 D AND ZERO-PHASE HJD2461089.76317600

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=true		(2), (6), (10)
(2)	Pattern Type=LINE Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=270 Angle Between Sides= Center Pattern=true		(4), (8)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	L98-59	RA: 08 18 7.6214 (124.5317558d) Dec: -68 18 46.81 (-68.31300d) Equinox: J2000	Proper Motion RA: 94.794 mas/yr Proper Motion Dec: -340.08400002676353 mas/yr Parallax: 0.0942664" Epoch of Position: 2000	V=11.685	Reference Frame: ICRS

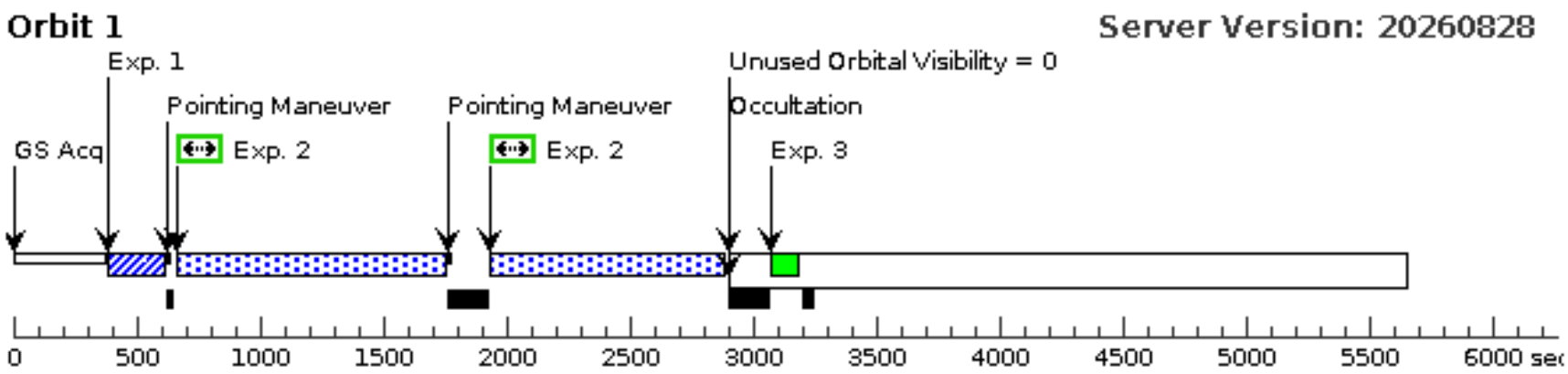
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

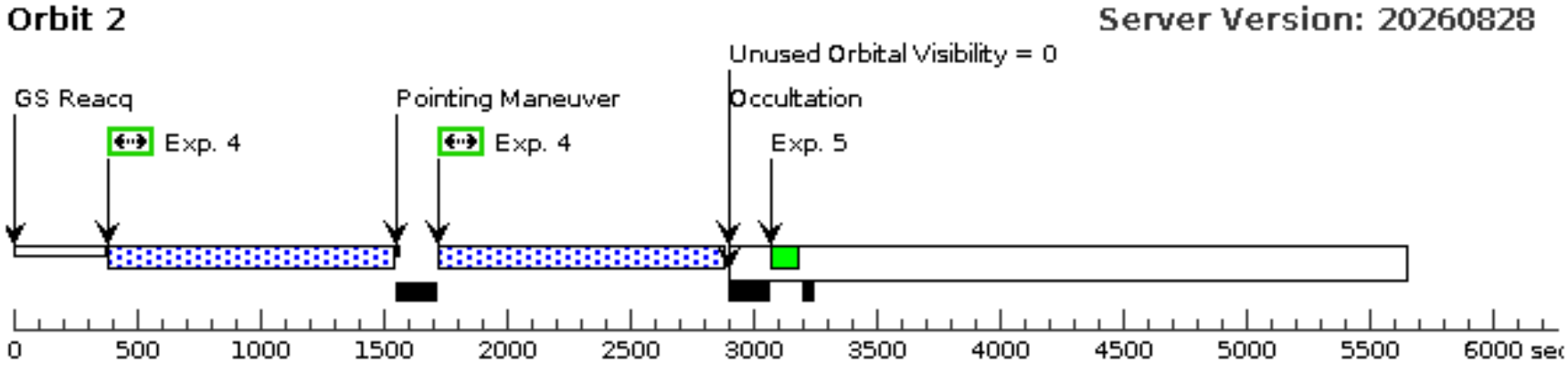
SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=STAR
Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]

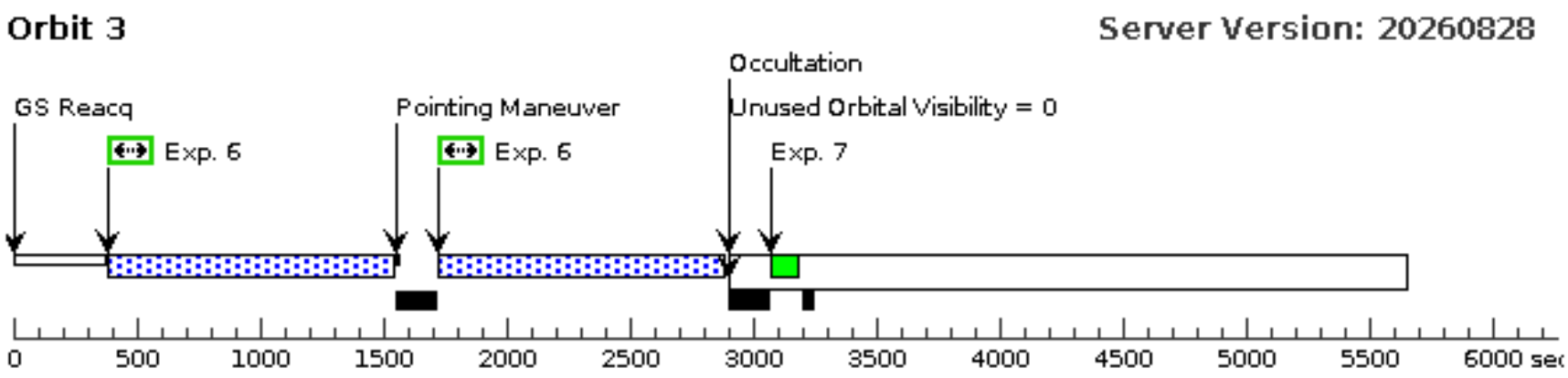
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(2026274)	(2) L98-59	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.97465293 28007949 TO 0.9858 375184375098		0.1 Secs (0.1 Secs) *[==>]*	***[1]***
2	(2026275)	(2) L98-59	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10171; WAVECAL=NO		Pattern 1, Exps 2-2 in L98-59 d Transit (06) (1)	700 Secs (1864 Secs) *[==>932.0 Secs (Pattern 1)]* *[==>932.0 Secs (Pattern 2)]*	***[1]***
3		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[1]***
4	(2026275)	(2) L98-59	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10171; WAVECAL=NO		Pattern 2, Exps 4-4 in L98-59 d Transit (06) (2)	700 Secs (2282 Secs) *[==>1141.0 Secs (Pattern 1)]* *[==>1141.0 Secs (Pattern 2)]*	***[2]***
5		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[2]***
6	(2026275)	(2) L98-59	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10171; WAVECAL=NO		Pattern 1, Exps 6-6 in L98-59 d Transit (06) (1)	700 Secs (2282 Secs) *[==>1141.0 Secs (Pattern 1)]* *[==>1141.0 Secs (Pattern 2)]*	***[3]***
7		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[3]***
8	(2026275)	(2) L98-59	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10171; WAVECAL=NO		Pattern 2, Exps 8-8 in L98-59 d Transit (06) (2)	700 Secs (2282 Secs) *[==>1141.0 Secs (Pattern 1)]* *[==>1141.0 Secs (Pattern 2)]*	***[4]***
9		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[4]***
10	(2026275)	(2) L98-59	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10171; WAVECAL=NO		Pattern 1, Exps 10-10 in L98-59 d Transit (06) (1)	700 Secs (2282 Secs) *[==>1141.0 Secs (Pattern 1)]* *[==>1141.0 Secs (Pattern 2)]*	***[5]***
11		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[5]***

Orbit Structure






Orbit 3
Server Version: 20260828
Occultation
GS Reacq
Pointing Maneuver
Unused Orbital Visibility = 0
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Exp. 6
Exp. 7
0
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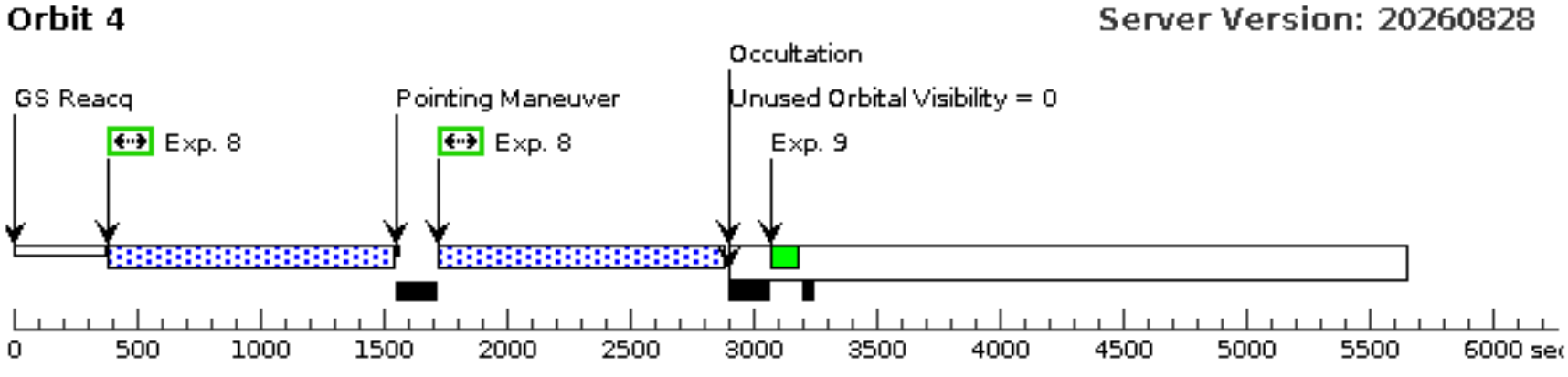
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 4
Server Version: 20260828
Occultation
GS Reacq
Pointing Maneuver
Unused Orbital Visibility = 0
Exp. 8
Exp. 8
Exp. 9
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1000
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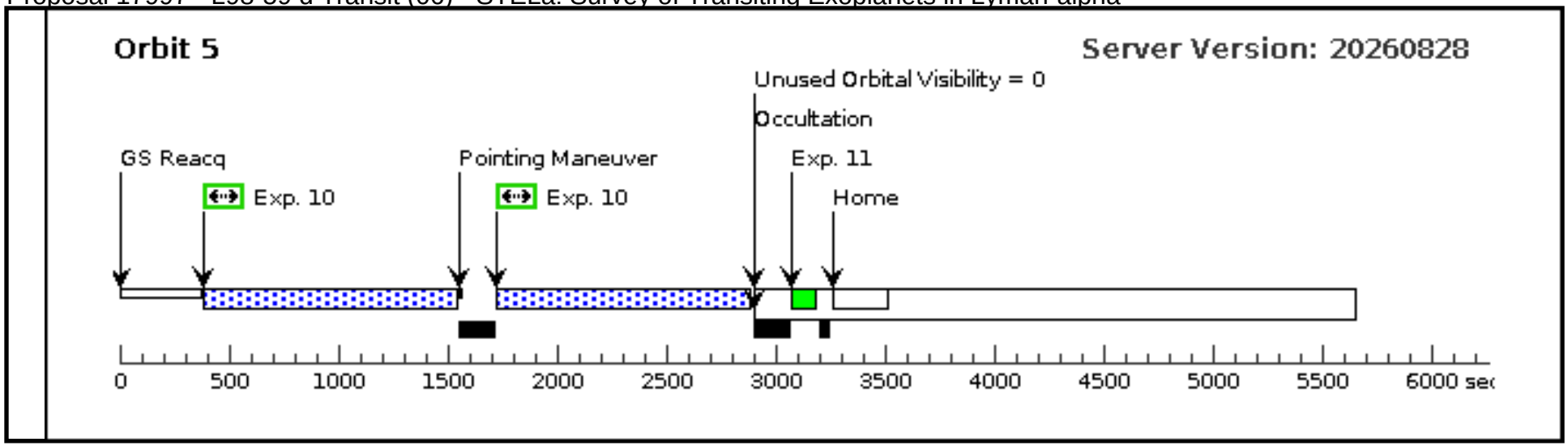
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 5
Server Version: 20260828
Unused Orbital Visibility = 0
Occultation
GS Reacq
Exp. 10
Pointing Maneuver
Exp. 10
Exp. 11
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17997, TOI-1231 b Baseline (07), implementation Tue Sep 22 17:00:37 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=true		(2)
(2)	Pattern Type=LINE Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=270 Angle Between Sides= Center Pattern=true		(4)

Fixed Targets

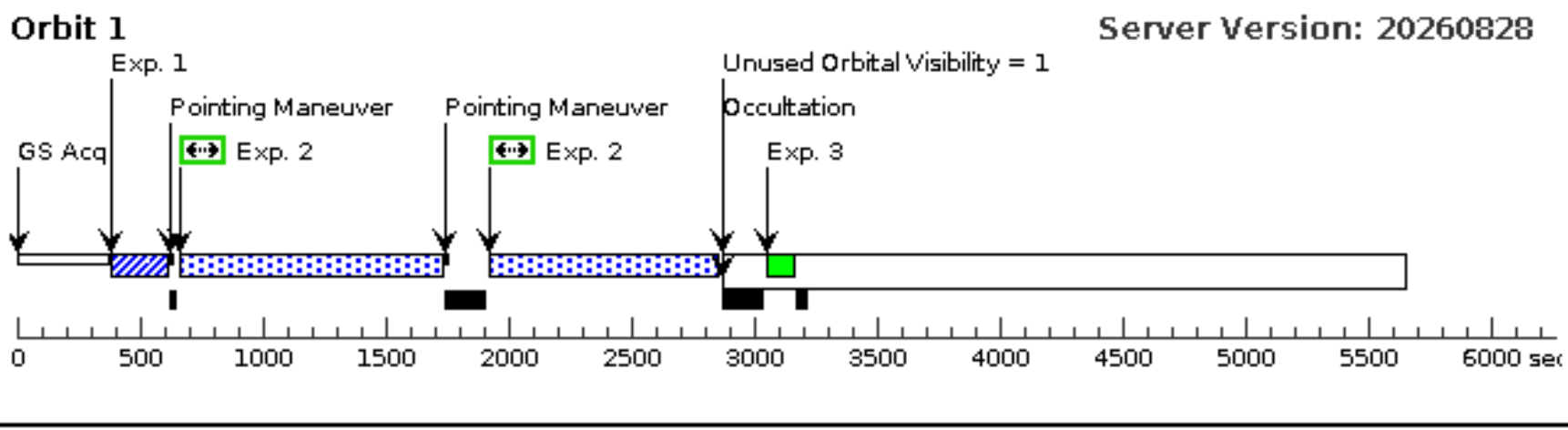
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	TOI-1231	RA: 10 26 59.4940 (156.7478917d) Dec: -52 28 9.94 (-52.46943d) Equinox: J2000	Proper Motion RA: -89.394 mas/yr Proper Motion Dec: 361.546 mas/yr Parallax: 0.0363896" Epoch of Position: 2000.0 Radial Velocity: 68.715 km/sec	V=12.302000045776367+/-0.00 9999999776482582 G=11.36	Reference Frame: ICRS

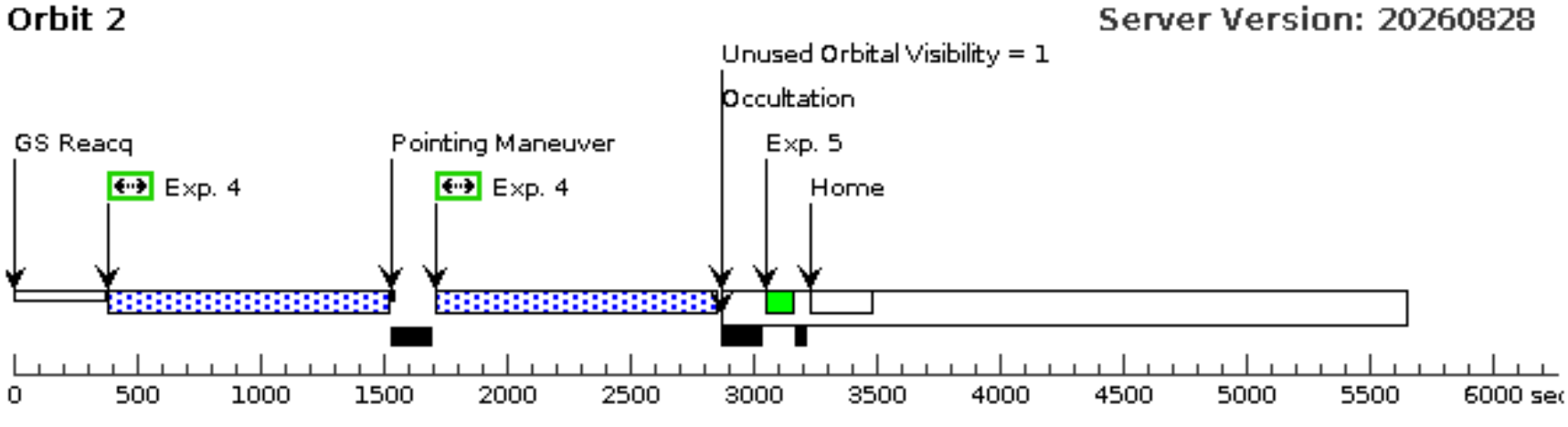
Comments: Predicted Lya flux before ISM absorption 1.8e-14;FUV used for buffer time estimate 24.44;deemed INACTIVE on the basis of age > 1;stellar mass 0.49;stellar Teff 3553.00;no GALEX fuv observation;Rossby number unknown due to no cataloged rotation period;cataloged age of 5 Gyr
Category=STAR
Description=[M V-IV, EXTRA-SOLAR PLANETARY SYSTEM]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(2026276)	(3) TOI-1231	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	*[1]*
2	(2026277)	(3) TOI-1231	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10199; WAVECAL=NO		Pattern 1, Exps 2-2 in TOI-1231 b Baseline (07) (1)	700 Secs (1838 Secs) *[==>919.0 Secs (Pattern 1)]* *[==>919.0 Secs (Pattern 2)]*	*[1]*
3		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	*[1]*
4	(2026277)	(3) TOI-1231	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10199; WAVECAL=NO		Pattern 2, Exps 4-4 in TOI-1231 b Baseline (07) (2)	700 Secs (2256 Secs) *[==>1128.0 Secs (Pattern 1)]* *[==>1128.0 Secs (Pattern 2)]*	*[2]*
5		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	*[2]*

Orbit Structure





Visit

Proposal 17997, TOI-1231 b Transit (08), implementation Tue Sep 22 17:00:37 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%; AFTER 07 BY 6 H TO 24 H; Period 24.245586 D AND ZERO-PHASE HJD2458685.1163

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=true		(2), (6), (10)
(2)	Pattern Type=LINE Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=270 Angle Between Sides= Center Pattern=true		(4), (8)

Fixed Targets

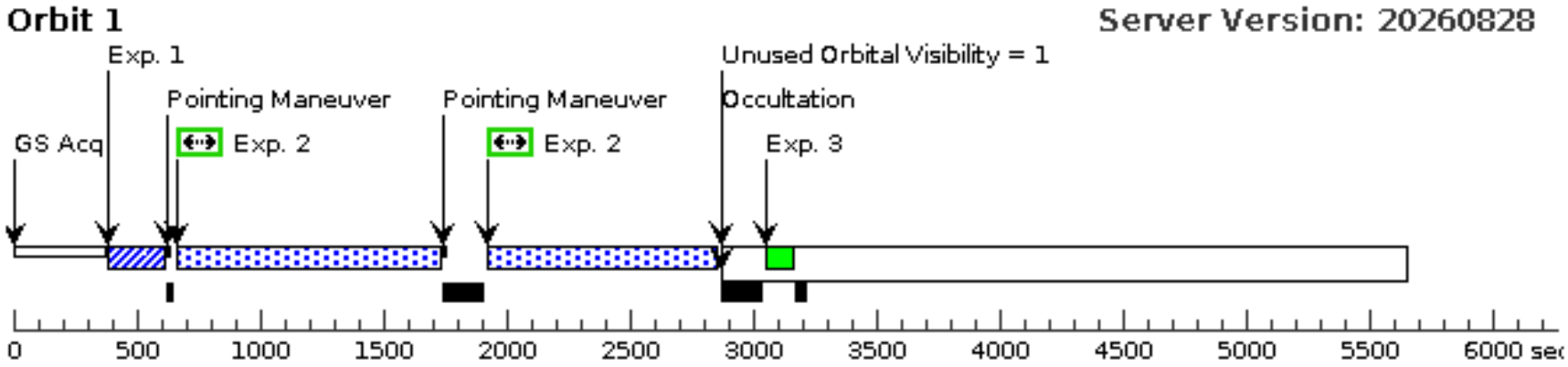
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	TOI-1231	RA: 10 26 59.4940 (156.7478917d) Dec: -52 28 9.94 (-52.46943d) Equinox: J2000	Proper Motion RA: -89.394 mas/yr Proper Motion Dec: 361.546 mas/yr Parallax: 0.0363896" Epoch of Position: 2000.0 Radial Velocity: 68.715 km/sec	V=12.302000045776367+/-0.00 9999999776482582 G=11.36	Reference Frame: ICRS

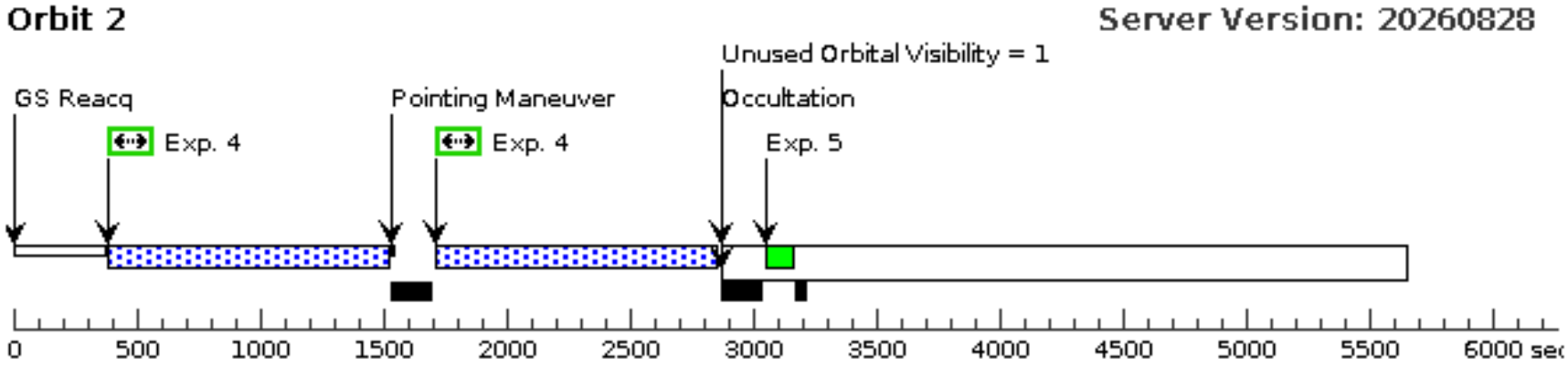
Comments: Predicted Lya flux before ISM absorption 1.8e-14;FUV used for buffer time estimate 24.44;deemed INACTIVE on the basis of age > 1;stellar mass 0.49;stellar Teff 3553.00;no GALEX fuv observation;Rossby number unknown due to no cataloged rotation period;cataloged age of 5 Gyr
Category=STAR
Description=[M V-IV, EXTRA-SOLAR PLANETARY SYSTEM]

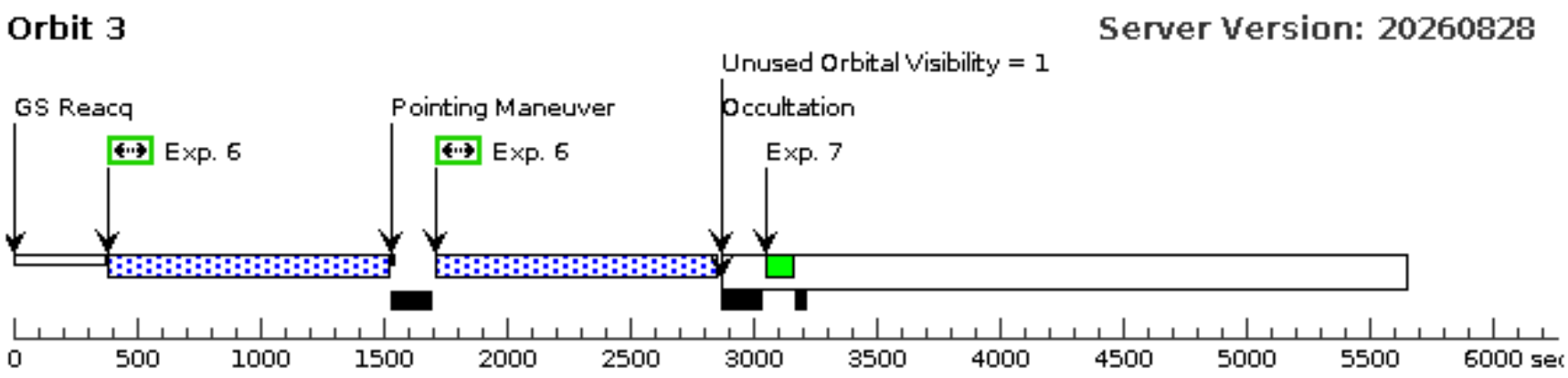
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(2026276)	(3) TOI-1231	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.99213774 TO 0.9955748		0.1 Secs (0.1 Secs) *[==>]*	***[1]***
2	(2026277)	(3) TOI-1231	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10199; WAVECAL=NO		Pattern 1, Exps 2-2 in TOI-1231 b Transit (08) (1)	700 Secs (1838 Secs) *[==>919.0 Secs (Pattern 1)]* *[==>919.0 Secs (Pattern 2)]*	***[1]***
3		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[1]***
4	(2026277)	(3) TOI-1231	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10199; WAVECAL=NO		Pattern 2, Exps 4-4 in TOI-1231 b Transit (08) (2)	700 Secs (2256 Secs) *[==>1128.0 Secs (Pattern 1)]* *[==>1128.0 Secs (Pattern 2)]*	***[2]***
5		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[2]***
6	(2026277)	(3) TOI-1231	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10199; WAVECAL=NO		Pattern 1, Exps 6-6 in TOI-1231 b Transit (08) (1)	700 Secs (2256 Secs) *[==>1128.0 Secs (Pattern 1)]* *[==>1128.0 Secs (Pattern 2)]*	***[3]***
7		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[3]***
8	(2026277)	(3) TOI-1231	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10199; WAVECAL=NO		Pattern 2, Exps 8-8 in TOI-1231 b Transit (08) (2)	700 Secs (2256 Secs) *[==>1128.0 Secs (Pattern 1)]* *[==>1128.0 Secs (Pattern 2)]*	***[4]***
9		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[4]***
10	(2026277)	(3) TOI-1231	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10199; WAVECAL=NO		Pattern 1, Exps 10-10 in TOI-1231 b Transit (08) (1)	700 Secs (2256 Secs) *[==>1128.0 Secs (Pattern 1)]* *[==>1128.0 Secs (Pattern 2)]*	***[5]***
11		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[5]***

Orbit Structure



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Server Version: 20260828
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GS Reacq
Pointing Maneuver
Occultation
Exp. 6
Exp. 6
Exp. 7
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1000
1500
2000
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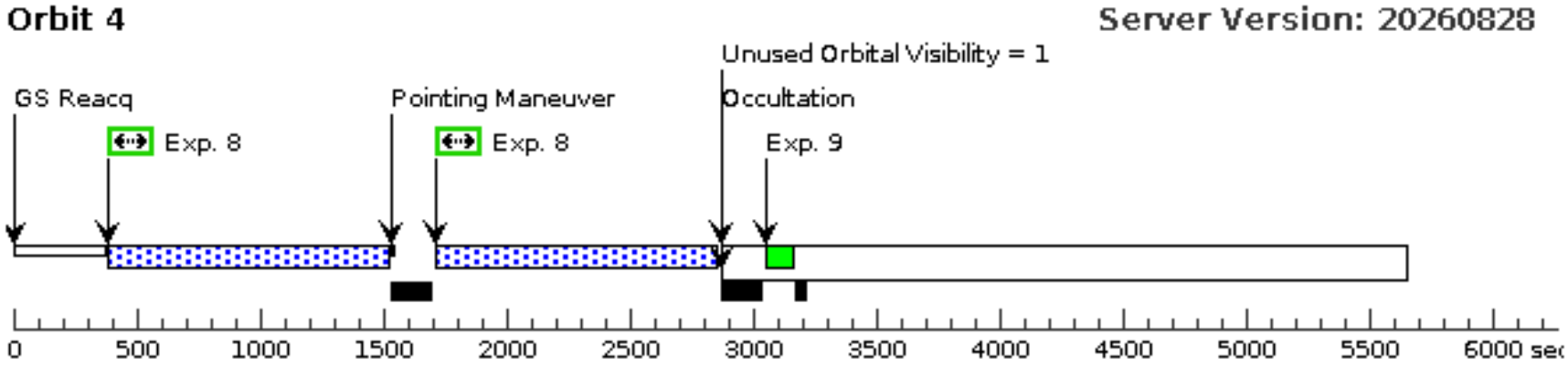
3000
3500
4000
4500
5000
5500
6000 sec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GS Reacq
Pointing Maneuver
Occultation
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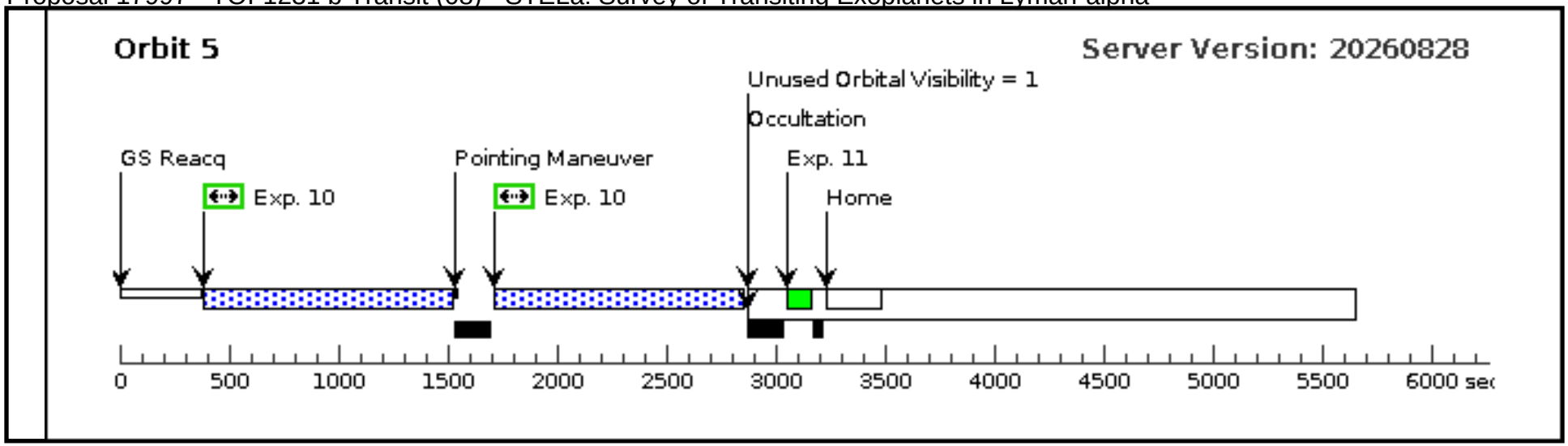
5000
5500
6000 sec


Orbit 5
Server Version: 20260828
Unused Orbital Visibility = 1
Occultation
GS Reacq
Exp. 10
Pointing Maneuver
Exp. 10
Exp. 11
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17997, HD63935 b Baseline (09), implementation Tue Sep 22 17:00:37 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=true		(2)
(2)	Pattern Type=LINE Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=270 Angle Between Sides= Center Pattern=true		(4)

Fixed Targets

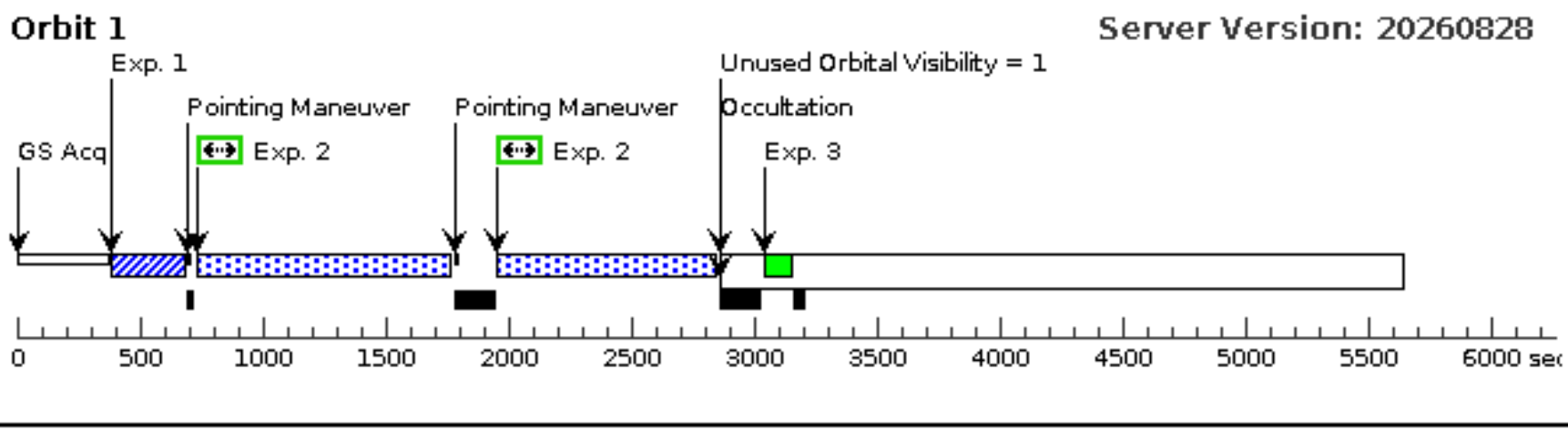
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	HD63935	RA: 07 51 41.9964 (117.9249850d) Dec: +09 23 9.79 (9.38605d) Equinox: J2000	Proper Motion RA: -78.696 mas/yr Proper Motion Dec: -188.512 mas/yr Parallax: 0.02047" Epoch of Position: 2000.0 Radial Velocity: -21.659 km/sec	V=8.58+/-0.03 G=8.40, NUV=14.68, FUV=21.54	Reference Frame: ICRS

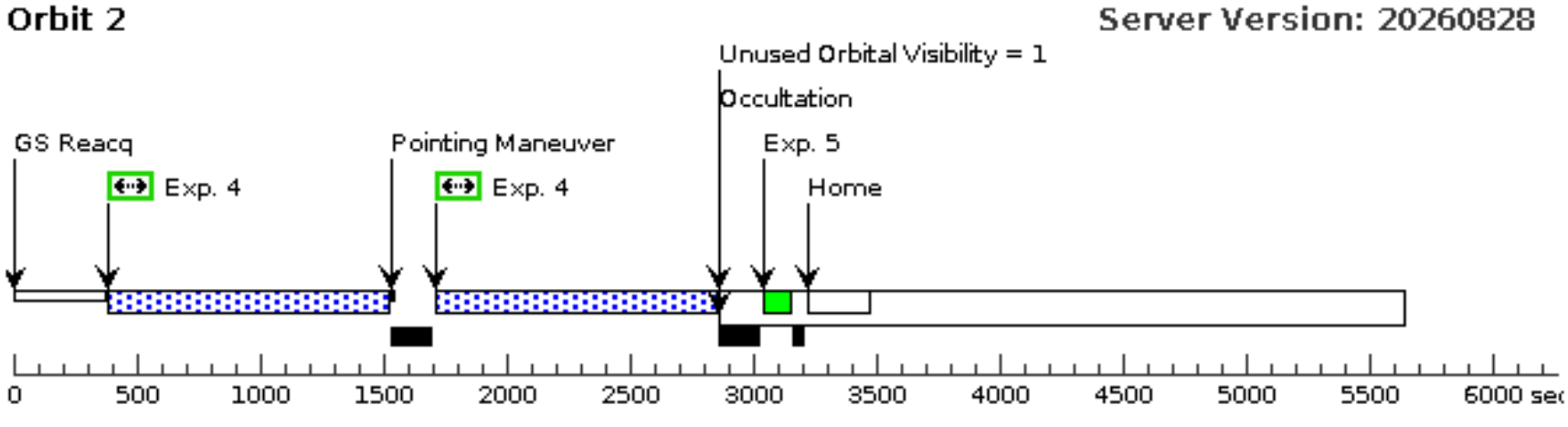
Comments: Predicted Lya flux before ISM absorption 1.2e-13;FUV used for buffer time estimate 21.54;deemed INACTIVE on the basis of age > 1;stellar mass 0.94;stellar Teff 5513.00;GALEX fuv mag = 21.54;Rossby number unknown due to no cataloged rotation period;cataloged age of 7 Gyr
Category=STAR
Description=[G V-IV, EXTRA-SOLAR PLANETARY SYSTEM]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(2026279)	(4) HD63935	STIS/CCD, ACQ, F25ND3	MIRROR				2.4 Secs (2.4 Secs) *[==>]*	***[1]***
2	(2026280)	(4) HD63935	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10183; WAVECAL=NO		Pattern 1, Exps 2-2 in HD63935 b Baseline (09) (1)	500 Secs (1756 Secs) *[==>878.0 Secs (Pattern 1)]* *[==>878.0 Secs (Pattern 2)]*	***[1]***
3		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[1]***
4	(2026280)	(4) HD63935	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10183; WAVECAL=NO		Pattern 2, Exps 4-4 in HD63935 b Baseline (09) (2)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[2]***
5		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[2]***

Orbit Structure





Visit

Proposal 17997, HD63935 b Transit (10), implementation Tue Sep 22 17:00:37 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%; AFTER 09 BY 6 H TO 24 H; Period 9.0588209 D AND ZERO-PHASE HJD2461093.66057210

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=true		(2), (6), (10)
(2)	Pattern Type=LINE Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=270 Angle Between Sides= Center Pattern=true		(4), (8)

Fixed Targets

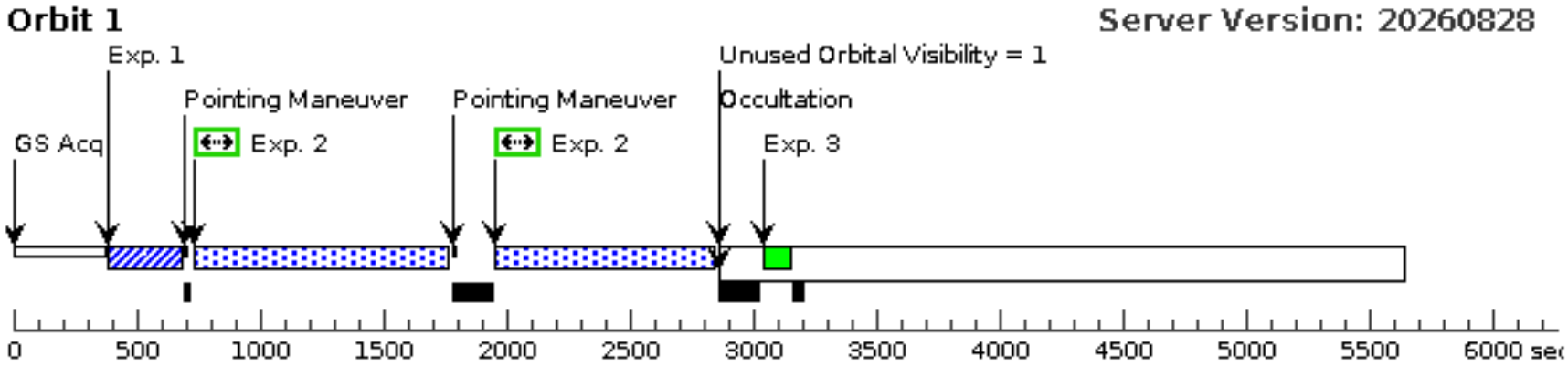
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	HD63935	RA: 07 51 41.9964 (117.9249850d) Dec: +09 23 9.79 (9.38605d) Equinox: J2000	Proper Motion RA: -78.696 mas/yr Proper Motion Dec: -188.512 mas/yr Parallax: 0.02047" Epoch of Position: 2000.0 Radial Velocity: -21.659 km/sec	V=8.58+/-0.03 G=8.40, NUV=14.68, FUV=21.54	Reference Frame: ICRS

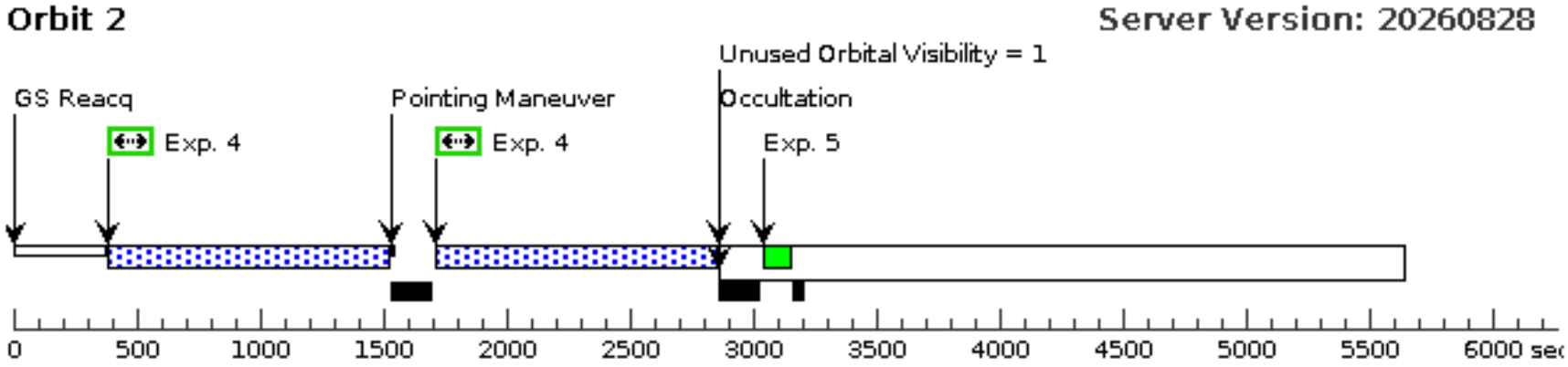
Comments: Predicted Lya flux before ISM absorption 1.2e-13;FUV used for buffer time estimate 21.54;deemed INACTIVE on the basis of age > 1;stellar mass 0.94;stellar Teff 5513.00;GALEX fuv mag = 21.54;Rossby number unknown due to no cataloged rotation period;cataloged age of 7 Gyr
Category=STAR
Description=[G V-IV, EXTRA-SOLAR PLANETARY SYSTEM]

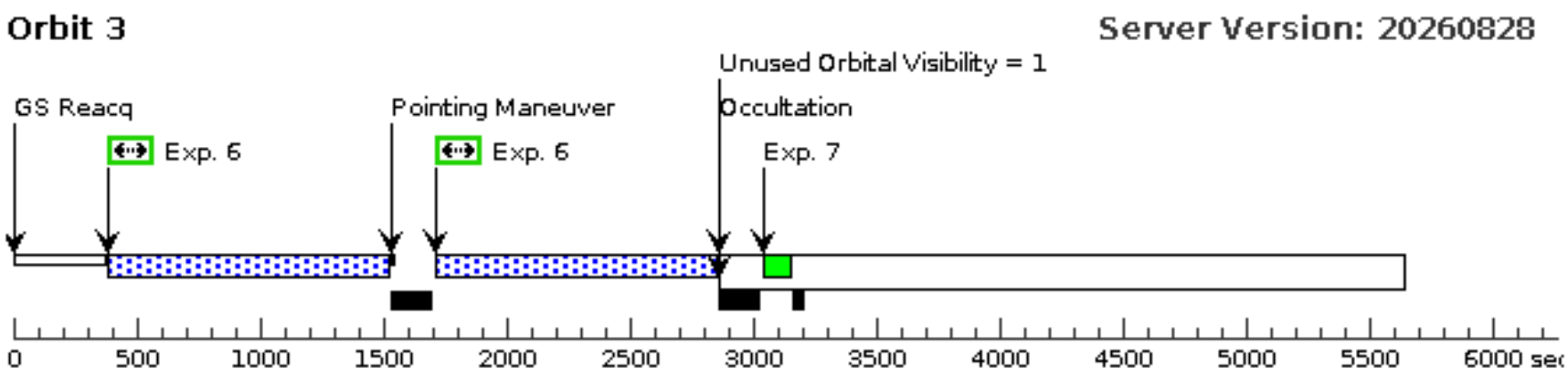
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(2026279)	(4) HD63935	STIS/CCD, ACQ, F25ND3	MIRROR		PHASE 0.97915245 60700094 TO 0.9883 515929392828		2.4 Secs (2.4 Secs) *[==>]*	***[1]***
2	(2026280)	(4) HD63935	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10 183; WAVECAL=NO		Pattern 1, Exps 2-2 in HD63935 b Transit (10) (1)	500 Secs (1756 Secs) *[==>878.0 Secs (Pattern 1)]* *[==>878.0 Secs (Pattern 2)]*	***[1]***
3		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[1]***
4	(2026280)	(4) HD63935	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10 183; WAVECAL=NO		Pattern 2, Exps 4-4 in HD63935 b Transit (10) (2)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[2]***
5		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[2]***
6	(2026280)	(4) HD63935	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10 183; WAVECAL=NO		Pattern 1, Exps 6-6 in HD63935 b Transit (10) (1)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[3]***
7		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[3]***
8	(2026280)	(4) HD63935	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10 183; WAVECAL=NO		Pattern 2, Exps 8-8 in HD63935 b Transit (10) (2)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[4]***
9		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[4]***
10	(2026280)	(4) HD63935	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10 183; WAVECAL=NO		Pattern 1, Exps 10-10 in HD63935 b Transit (10) (1)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[5]***
11		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[5]***

Orbit Structure



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GS Reacq
Pointing Maneuver
Occultation
Exp. 6
Exp. 6
Exp. 7
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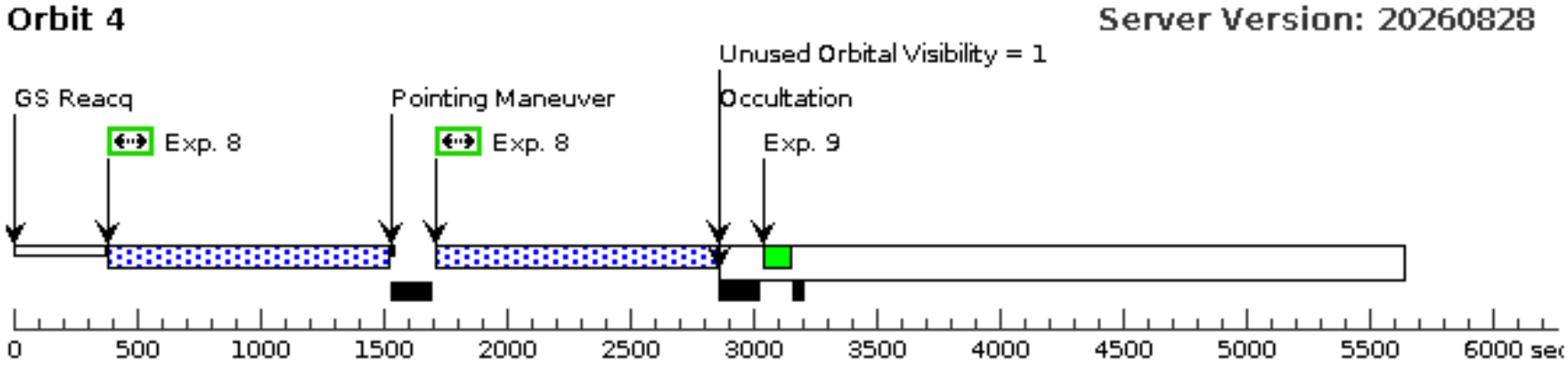
5000
5500
6000 sec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Pointing Maneuver
Occultation
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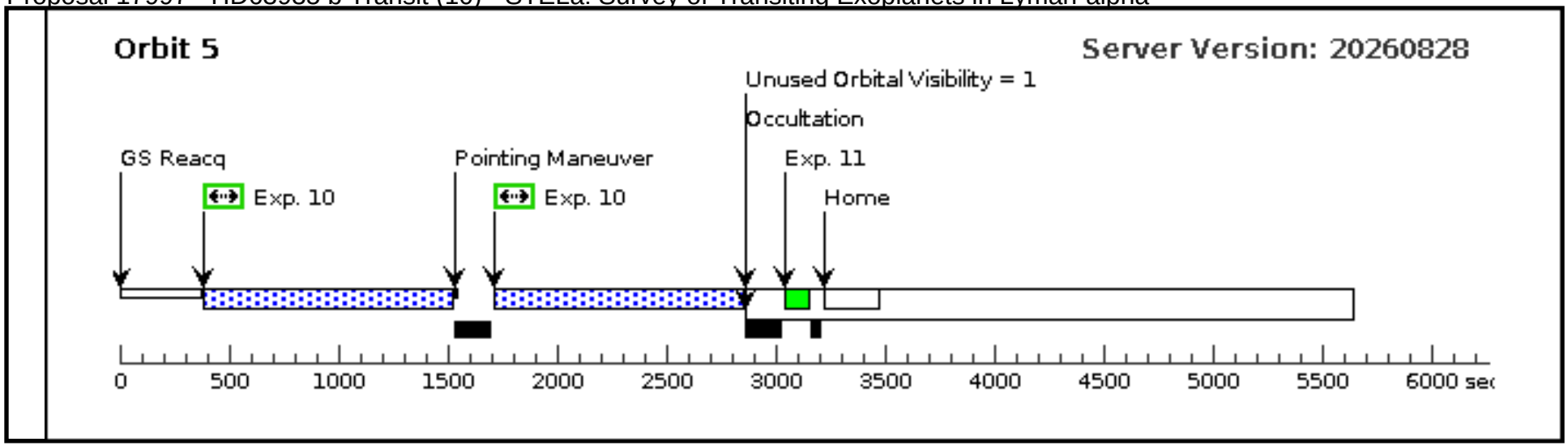
6000 sec


Orbit 5
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Occultation
GS Reacq
Exp. 10
Pointing Maneuver
Exp. 10
Exp. 11
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17997, HD63935 c Baseline (11), implementation Tue Sep 22 17:00:37 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=true		(2)
(2)	Pattern Type=LINE Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=270 Angle Between Sides= Center Pattern=true		(4)

Fixed Targets

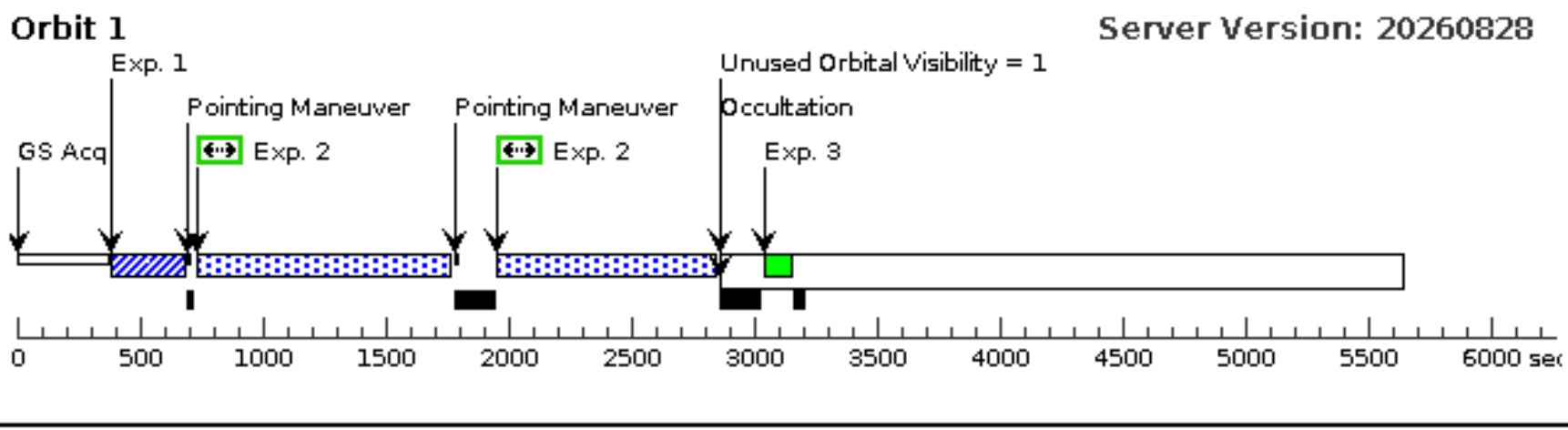
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	HD63935	RA: 07 51 41.9964 (117.9249850d) Dec: +09 23 9.79 (9.38605d) Equinox: J2000	Proper Motion RA: -78.696 mas/yr Proper Motion Dec: -188.512 mas/yr Parallax: 0.02047" Epoch of Position: 2000.0 Radial Velocity: -21.659 km/sec	V=8.58+/-0.03 G=8.40, NUV=14.68, FUV=21.54	Reference Frame: ICRS

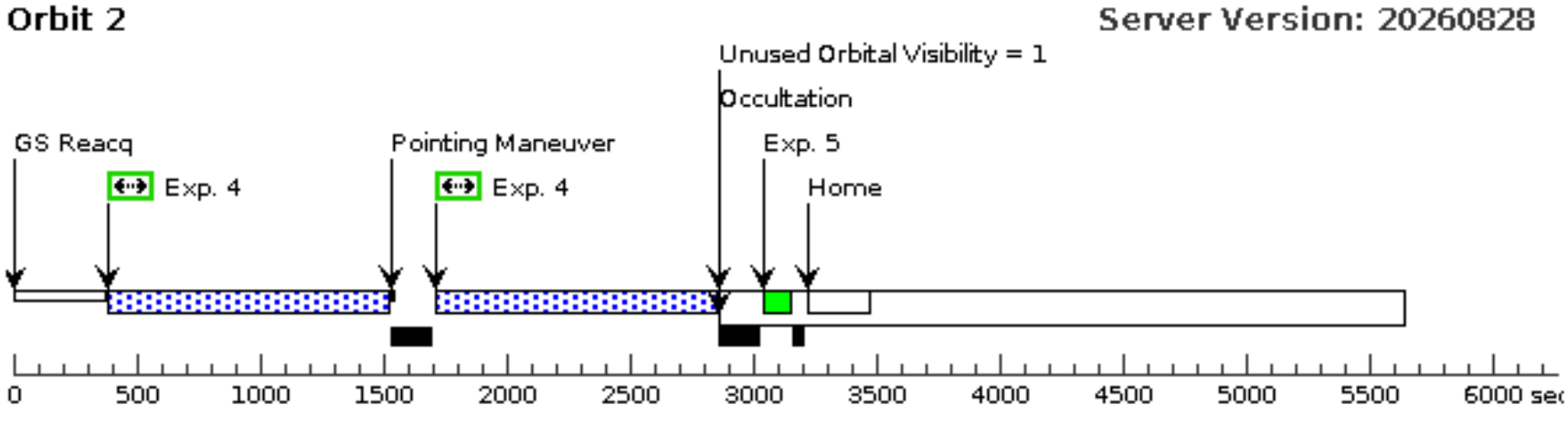
Comments: Predicted Lya flux before ISM absorption 1.2e-13;FUV used for buffer time estimate 21.54;deemed INACTIVE on the basis of age > 1;stellar mass 0.94;stellar Teff 5513.00;GALEX fuv mag = 21.54;Rossby number unknown due to no cataloged rotation period;cataloged age of 7 Gyr
Category=STAR
Description=[G V-IV, EXTRA-SOLAR PLANETARY SYSTEM]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(2026279)	(4) HD63935	STIS/CCD, ACQ, F25ND3	MIRROR				2.4 Secs (2.4 Secs) *[==>]*	***[1]***
2	(2026280)	(4) HD63935	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10183; WAVECAL=NO		Pattern 1, Exps 2-2 in HD63935 c Baseline (11) (1)	500 Secs (1756 Secs) *[==>878.0 Secs (Pattern 1)]* *[==>878.0 Secs (Pattern 2)]*	***[1]***
3		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[1]***
4	(2026280)	(4) HD63935	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10183; WAVECAL=NO		Pattern 2, Exps 4-4 in HD63935 c Baseline (11) (2)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[2]***
5		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[2]***

Orbit Structure





Visit

Proposal 17997, HD63935 c Transit (12), implementation Tue Sep 22 17:00:37 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%; AFTER 11 BY 6 H TO 24 H; Period 21.4003129 D AND ZERO-PHASE HJD2461090.99221320

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=true		(2), (6), (10)
(2)	Pattern Type=LINE Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=270 Angle Between Sides= Center Pattern=true		(4), (8)

Fixed Targets

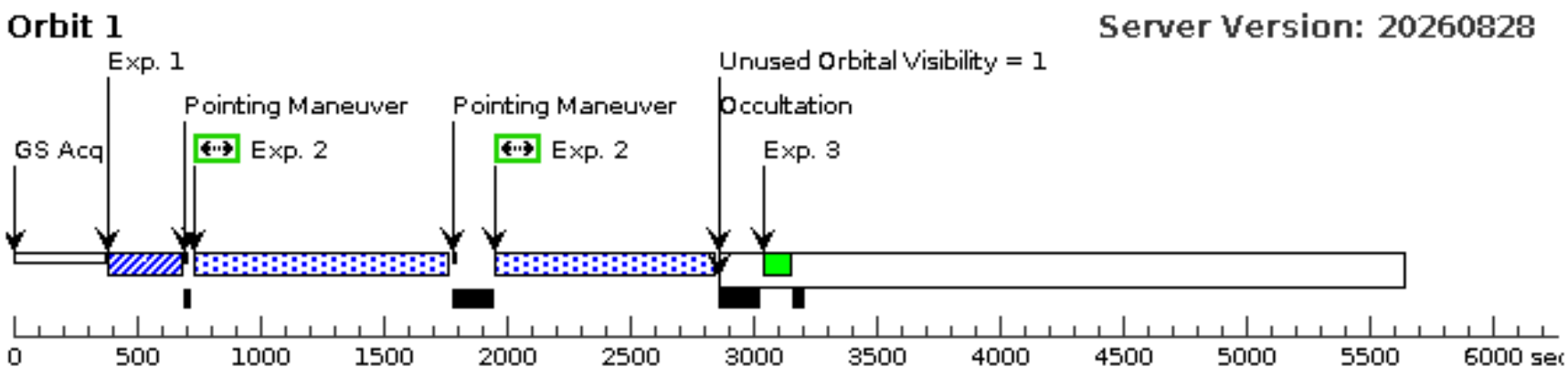
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	HD63935	RA: 07 51 41.9964 (117.9249850d) Dec: +09 23 9.79 (9.38605d) Equinox: J2000	Proper Motion RA: -78.696 mas/yr Proper Motion Dec: -188.512 mas/yr Parallax: 0.02047" Epoch of Position: 2000.0 Radial Velocity: -21.659 km/sec	V=8.58+/-0.03 G=8.40, NUV=14.68, FUV=21.54	Reference Frame: ICRS

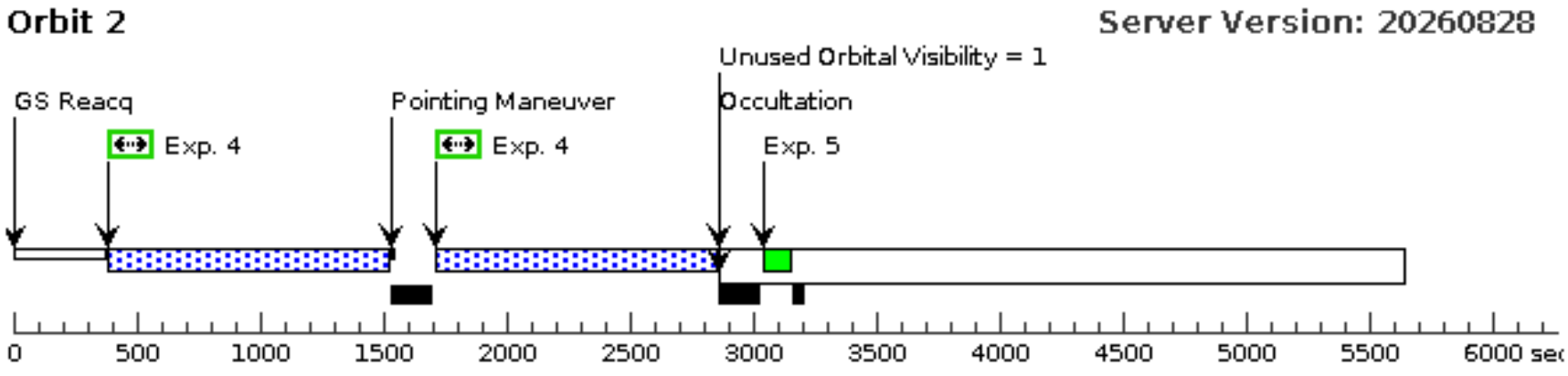
Comments: Predicted Lya flux before ISM absorption 1.2e-13;FUV used for buffer time estimate 21.54;deemed INACTIVE on the basis of age > 1;stellar mass 0.94;stellar Teff 5513.00;GALEX fuv mag = 21.54;Rossby number unknown due to no cataloged rotation period;cataloged age of 7 Gyr
Category=STAR
Description=[G V-IV, EXTRA-SOLAR PLANETARY SYSTEM]

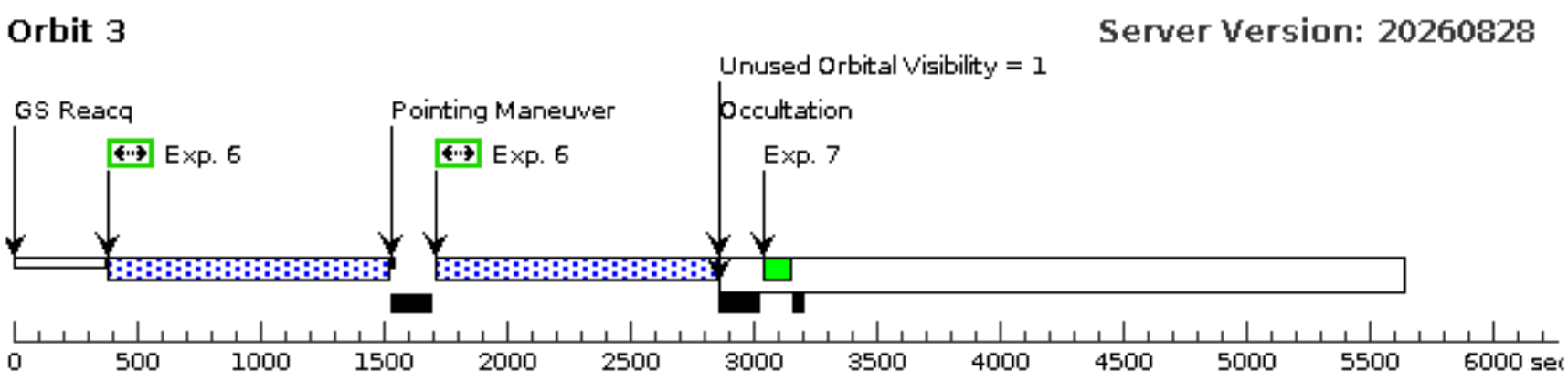
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(2026279)	(4) HD63935	STIS/CCD, ACQ, F25ND3	MIRROR		PHASE 0.99312218 00032652 TO 0.9970 162040636954		2.4 Secs (2.4 Secs) *[==>]*	***[1]***
2	(2026280)	(4) HD63935	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10 183; WAVECAL=NO		Pattern 1, Exps 2-2 in HD63935 c Transit (12) (1)	500 Secs (1756 Secs) *[==>878.0 Secs (Pattern 1)]* *[==>878.0 Secs (Pattern 2)]*	***[1]***
3		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[1]***
4	(2026280)	(4) HD63935	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10 183; WAVECAL=NO		Pattern 2, Exps 4-4 in HD63935 c Transit (12) (2)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[2]***
5		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[2]***
6	(2026280)	(4) HD63935	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10 183; WAVECAL=NO		Pattern 1, Exps 6-6 in HD63935 c Transit (12) (1)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[3]***
7		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[3]***
8	(2026280)	(4) HD63935	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10 183; WAVECAL=NO		Pattern 2, Exps 8-8 in HD63935 c Transit (12) (2)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[4]***
9		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[4]***
10	(2026280)	(4) HD63935	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10 183; WAVECAL=NO		Pattern 1, Exps 10-10 in HD63935 c Transit (12) (1)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[5]***
11		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[5]***

Orbit Structure



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Pointing Maneuver
Occultation
Exp. 6
Exp. 6
Exp. 7
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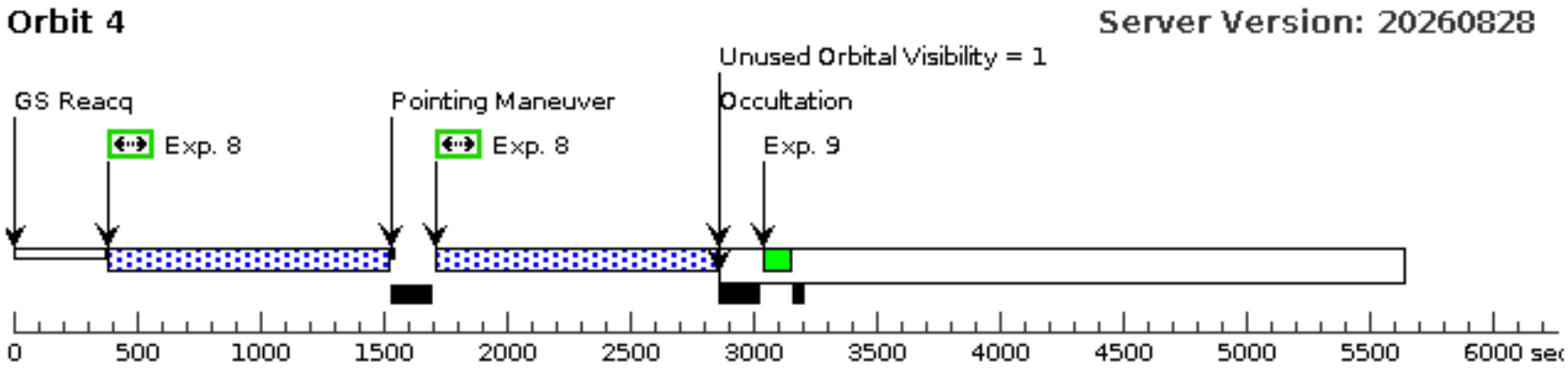
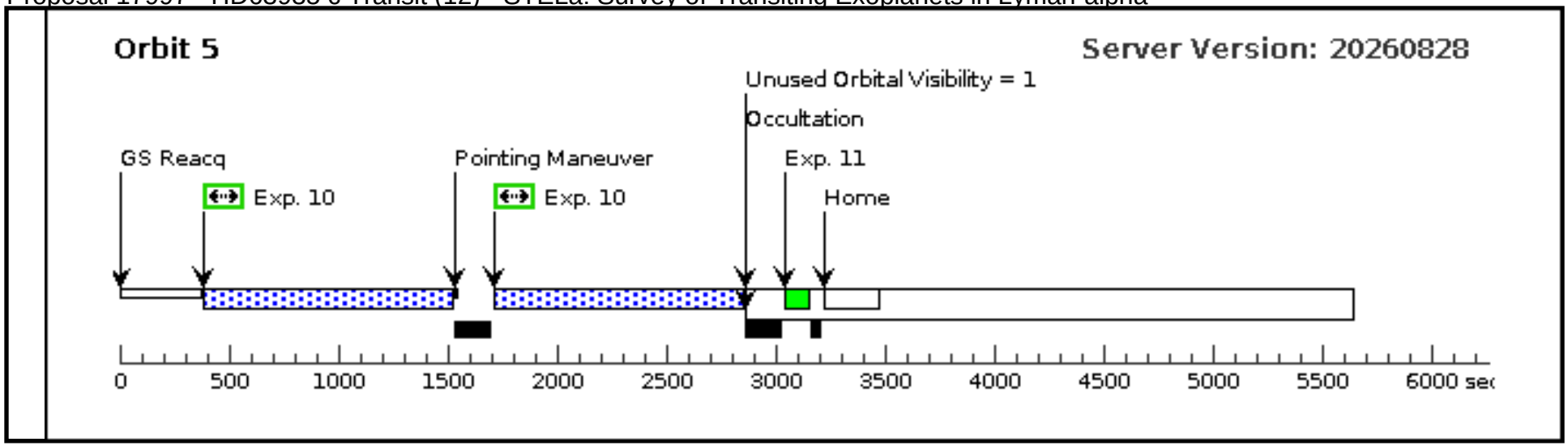
5500
6000 sec


Orbit 4
Server Version: 20260828
Unused Orbital Visibility = 1
GS Reacq
Pointing Maneuver
Occultation
Exp. 8
Exp. 8
Exp. 9
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 5
Server Version: 20260828
Unused Orbital Visibility = 1
Occultation
GS Reacq
Exp. 10
Pointing Maneuver
Exp. 10
Exp. 11
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17997, HD42813 b Baseline (13), implementation Tue Sep 22 17:00:37 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=true		(2)
(2)	Pattern Type=LINE Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=270 Angle Between Sides= Center Pattern=true		(4)

Fixed Targets

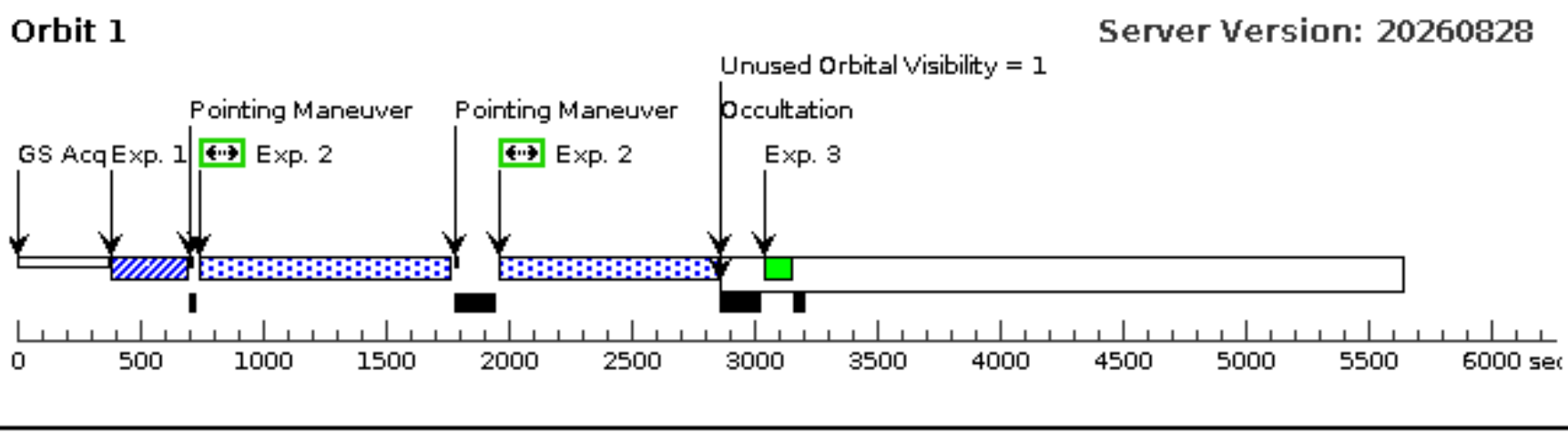
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	HD42813	RA: 06 12 13.9672 (93.0581967d) Dec: -14 39 0.06 (-14.65002d) Equinox: J2000	Proper Motion RA: -79.132 mas/yr Proper Motion Dec: 162.696 mas/yr Parallax: 0.0147065" Epoch of Position: 2000.0 Radial Velocity: 81.87 km/sec	V=9.470000267028809+/-0.019999999552965164 G=9.282242774963379	Reference Frame: ICRS

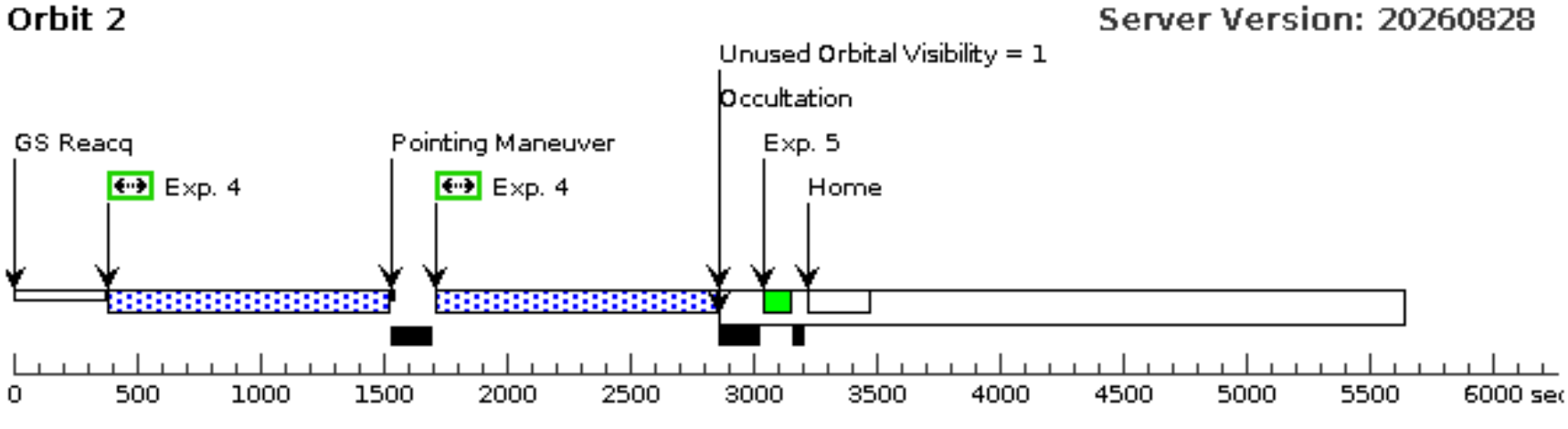
Comments: Predicted Lya flux before ISM absorption 4.1e-14;FUV used for buffer time estimate 26.11;deemed INACTIVE on the basis of Rossby number > 0.5;stellar mass 0.90;stellar Teff 5289.00;no GALEX fuv observation;Rossby number estimate of 3.32 based on measured 40.0 d rotation period;cataloged age of 1e+01 Gyr
Category=STAR
Description=[K V-IV, EXTRA-SOLAR PLANETARY SYSTEM]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(2026283)	(5) HD42813	STIS/CCD, ACQ, F25ND3	MIRROR				5.5 Secs (5.5 Secs) *[==>]*	*[1]*
2	(2026284)	(5) HD42813	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10202; WAVECAL=NO		Pattern 1, Exps 2-2 in HD42813 b Baseline (13) (1)	500 Secs (1742 Secs) *[==>871.0 Secs (Pattern 1)]* *[==>871.0 Secs (Pattern 2)]*	*[1]*
3		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	*[1]*
4	(2026284)	(5) HD42813	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10202; WAVECAL=NO		Pattern 2, Exps 4-4 in HD42813 b Baseline (13) (2)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	*[2]*
5		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	*[2]*

Orbit Structure





Visit

Proposal 17997, HD42813 b Transit (14), implementation Tue Sep 22 17:00:37 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%; AFTER 13 BY 6 H TO 24 H; Period 13.6308205 D AND ZERO-PHASE HJD2458474.56927

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=true		(2), (6), (10)
(2)	Pattern Type=LINE Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=270 Angle Between Sides= Center Pattern=true		(4), (8)

Fixed Targets

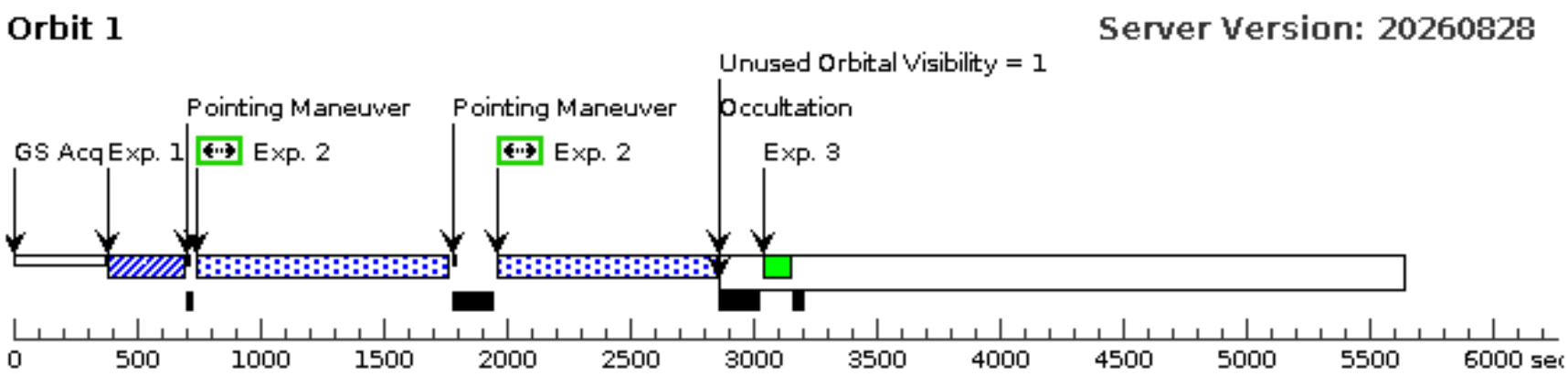
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	HD42813	RA: 06 12 13.9672 (93.0581967d) Dec: -14 39 0.06 (-14.65002d) Equinox: J2000	Proper Motion RA: -79.132 mas/yr Proper Motion Dec: 162.696 mas/yr Parallax: 0.0147065" Epoch of Position: 2000.0 Radial Velocity: 81.87 km/sec	V=9.470000267028809+/-0.019999999552965164 G=9.282242774963379	Reference Frame: ICRS

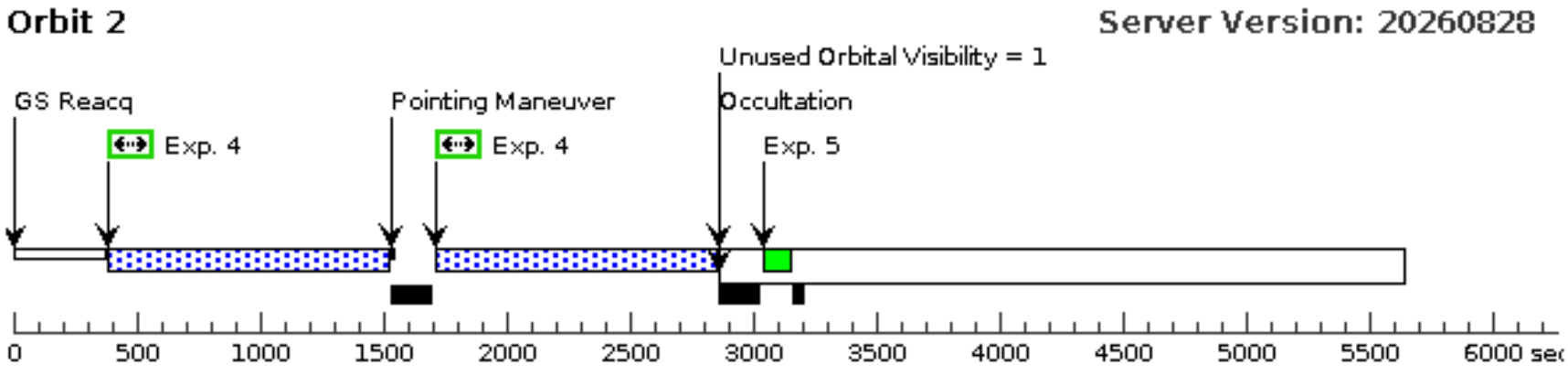
Comments: Predicted Lya flux before ISM absorption 4.1e-14;FUV used for buffer time estimate 26.11;deemed INACTIVE on the basis of Rossby number > 0.5;stellar mass 0.90;stellar Teff 5289.00;no GALEX fuv observation;Rossby number estimate of 3.32 based on measured 40.0 d rotation period;cataloged age of 1e+01 Gyr
Category=STAR
Description=[K V-IV, EXTRA-SOLAR PLANETARY SYSTEM]

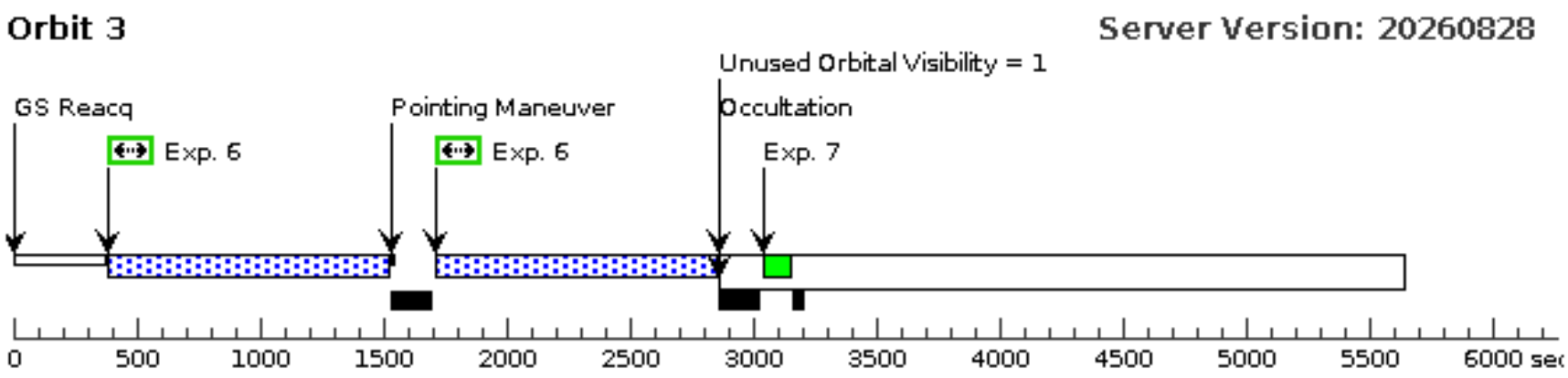
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(2026283)	(5) HD42813	STIS/CCD, ACQ, F25ND3	MIRROR		PHASE 0.98601515 TO 0.99212874		5.5 Secs (5.5 Secs) *[==>]*	***[1]***
2	(2026284)	(5) HD42813	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10202; WAVECAL=NO		Pattern 1, Exps 2-2 in HD42813 b Transit (14) (1)	500 Secs (1742 Secs) *[==>871.0 Secs (Pattern 1)]* *[==>871.0 Secs (Pattern 2)]*	***[1]***
3		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[1]***
4	(2026284)	(5) HD42813	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10202; WAVECAL=NO		Pattern 2, Exps 4-4 in HD42813 b Transit (14) (2)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[2]***
5		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[2]***
6	(2026284)	(5) HD42813	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10202; WAVECAL=NO		Pattern 1, Exps 6-6 in HD42813 b Transit (14) (1)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[3]***
7		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[3]***
8	(2026284)	(5) HD42813	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10202; WAVECAL=NO		Pattern 2, Exps 8-8 in HD42813 b Transit (14) (2)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[4]***
9		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[4]***
10	(2026284)	(5) HD42813	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10202; WAVECAL=NO		Pattern 1, Exps 10-10 in HD42813 b Transit (14) (1)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[5]***
11		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[5]***

Orbit Structure



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Unused Orbital Visibility = 1
GS Reacq
Pointing Maneuver
Occultation
Exp. 6
Exp. 6
Exp. 7
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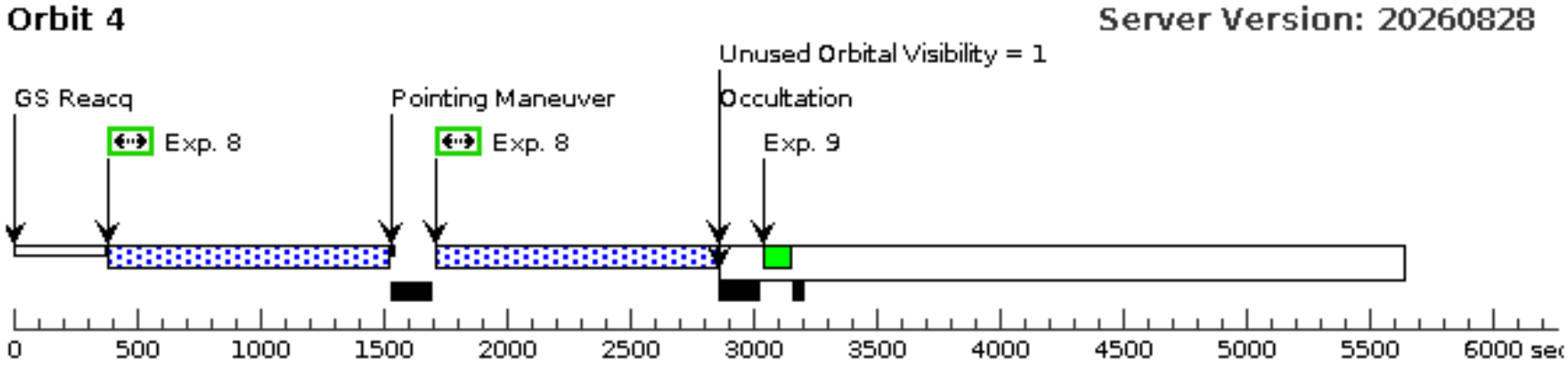
5000
5500
6000 sec


Orbit 4
Server Version: 20260828
Unused Orbital Visibility = 1
GS Reacq
Pointing Maneuver
Occultation
Exp. 8
Exp. 8
Exp. 9
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3500
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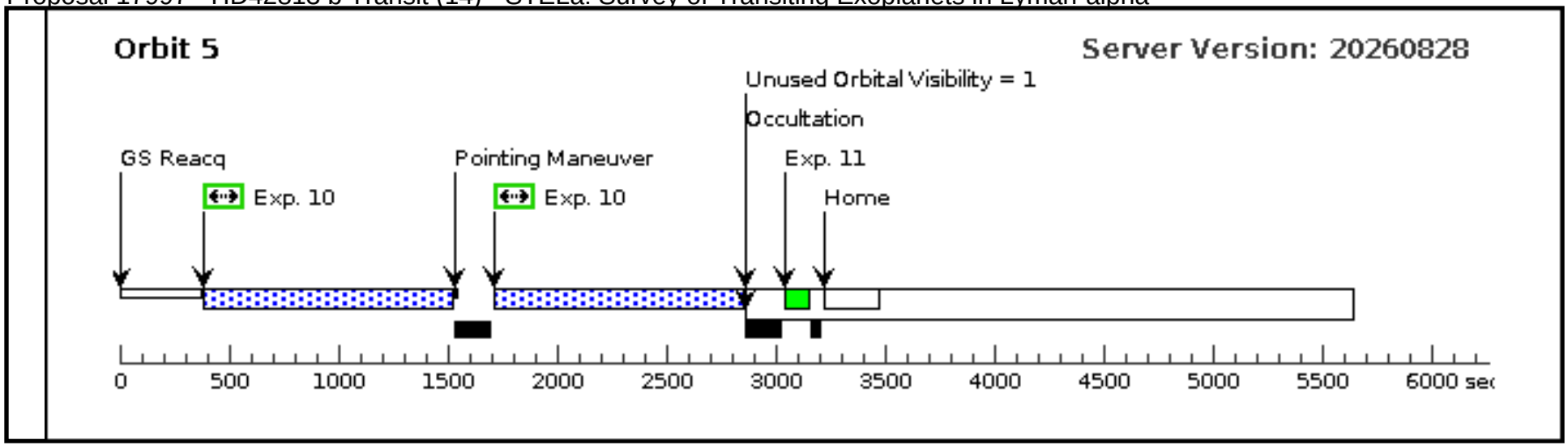
6000 sec


Orbit 5
Server Version: 20260828
Unused Orbital Visibility = 1
Occultation
GS Reacq
Exp. 10
Pointing Maneuver
Exp. 10
Exp. 11
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17997, TOI-421 c Baseline (15), completed Tue Sep 22 17:00:37 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=true		(2)
(2)	Pattern Type=LINE Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=270 Angle Between Sides= Center Pattern=true		(4)

Fixed Targets

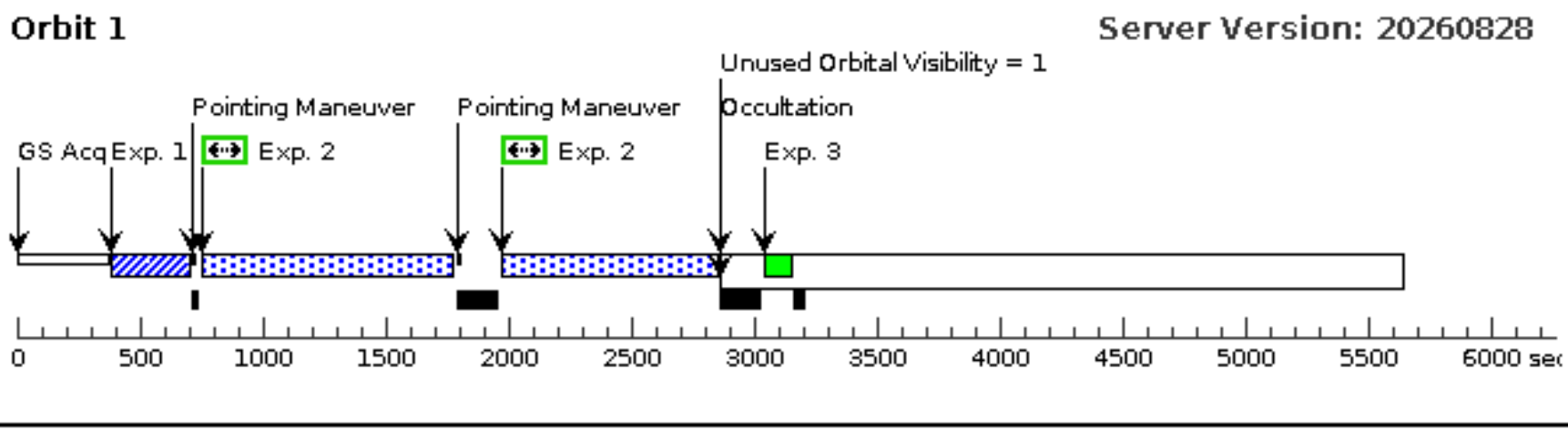
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	TOI-421	RA: 05 27 24.8258 (81.8534408d) Dec: -14 16 37.05 (-14.27696d) Equinox: J2000	Proper Motion RA: -35.743 mas/yr Proper Motion Dec: 50.387 mas/yr Parallax: 0.0133337" Epoch of Position: 2000.0 Radial Velocity: 79.54 km/sec	V=9.930000305175781+/-0.039999999910593033 G=9.783353805541992	Reference Frame: ICRS

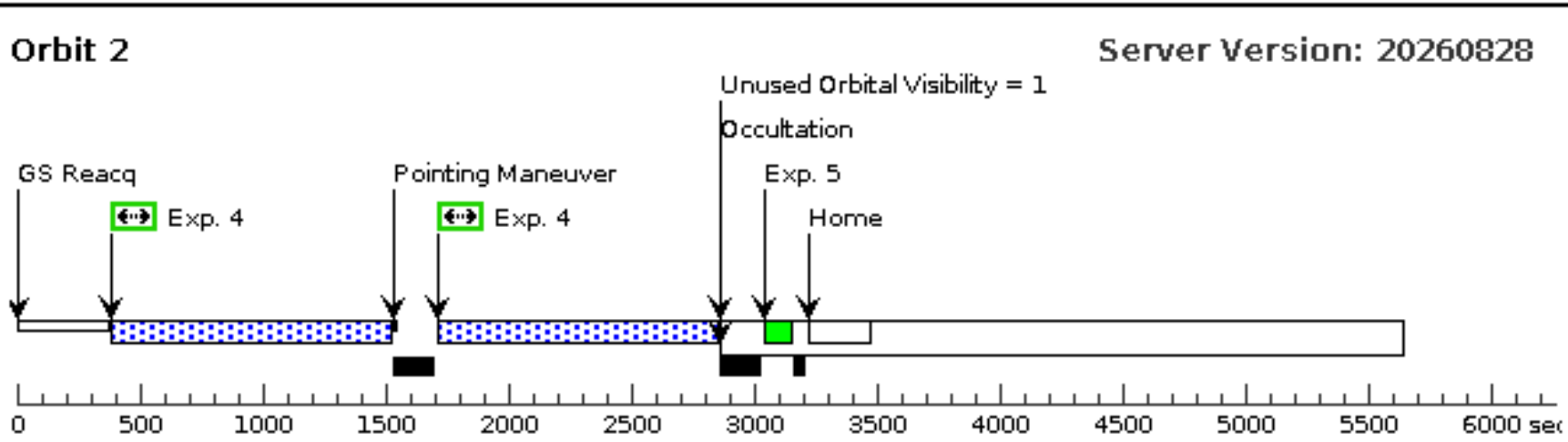
Comments:
Category=STAR
Description=[G V-IV, EXTRA-SOLAR PLANETARY SYSTEM]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(2026287)	(6) TOI-421	STIS/CCD, ACQ, F25ND3	MIRROR				8.4 Secs (8.4 Secs) *[==>]*	***[1]***
2	(2026288)	(6) TOI-421	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10207; WAVECAL=NO		Pattern 1, Exps 2-2 in TOI-421 c Baseline (15) (1)	500 Secs (1732 Secs) *[==>866.0 Secs (Pattern 1)]* *[==>866.0 Secs (Pattern 2)]*	***[1]***
3		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[1]***
4	(2026288)	(6) TOI-421	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10207; WAVECAL=NO		Pattern 2, Exps 4-4 in TOI-421 c Baseline (15) (2)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[2]***
5		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[2]***

Orbit Structure





Visit

Proposal 17997, TOI-421 c Transit (16), completed Tue Sep 22 17:00:37 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%; AFTER 15 BY 6 H TO 24 H; Period 16.067541 D AND ZERO-PHASE HJD2459195.30741

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=true		(2), (6), (10)
(2)	Pattern Type=LINE Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=270 Angle Between Sides= Center Pattern=true		(4), (8)

Fixed Targets

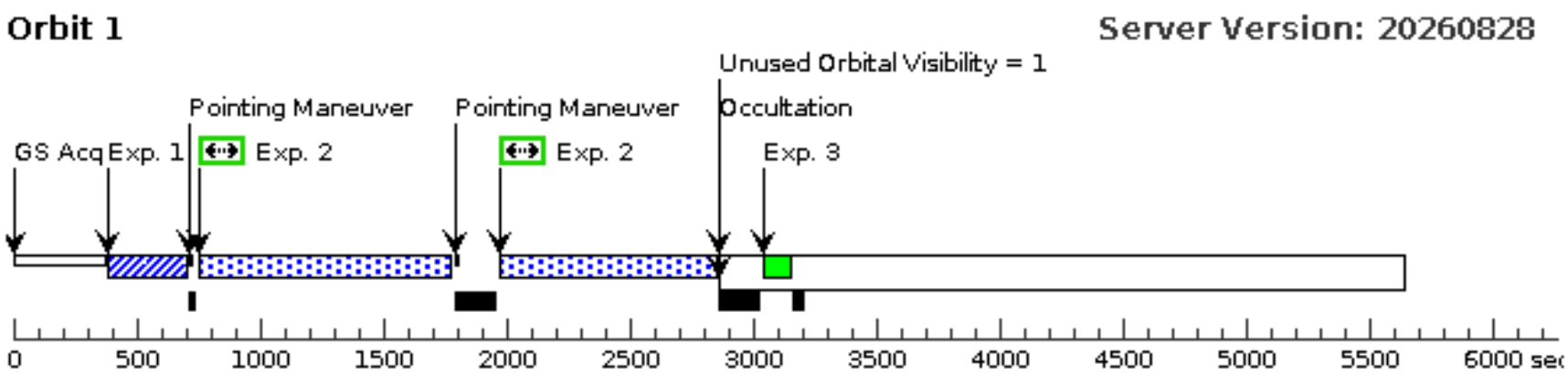
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	TOI-421	RA: 05 27 24.8258 (81.8534408d) Dec: -14 16 37.05 (-14.27696d) Equinox: J2000	Proper Motion RA: -35.743 mas/yr Proper Motion Dec: 50.387 mas/yr Parallax: 0.0133337" Epoch of Position: 2000.0 Radial Velocity: 79.54 km/sec	V=9.930000305175781+/-0.039999999910593033 G=9.783353805541992	Reference Frame: ICRS

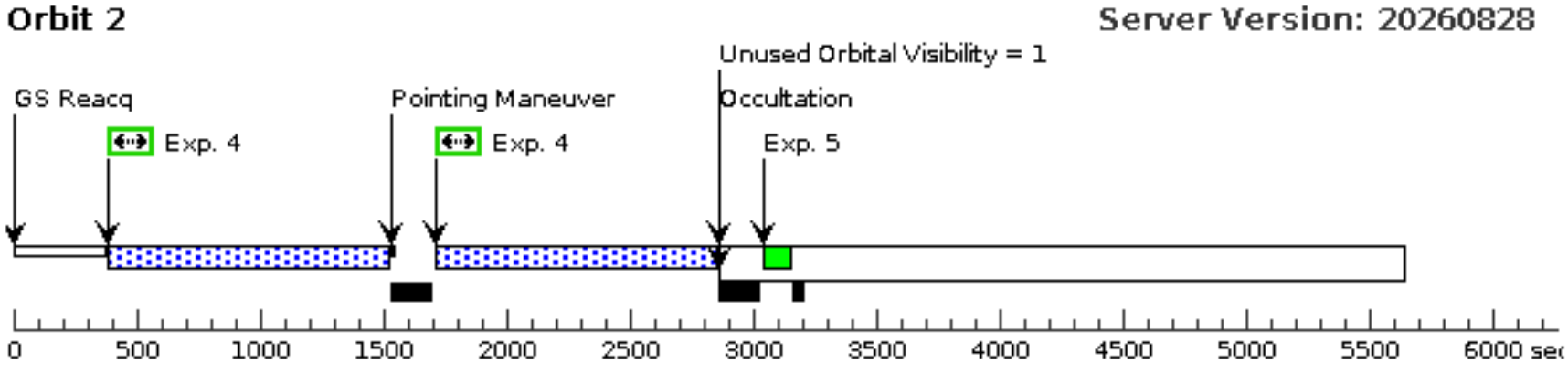
Comments:
Category=STAR
Description=[G V-IV, EXTRA-SOLAR PLANETARY SYSTEM]

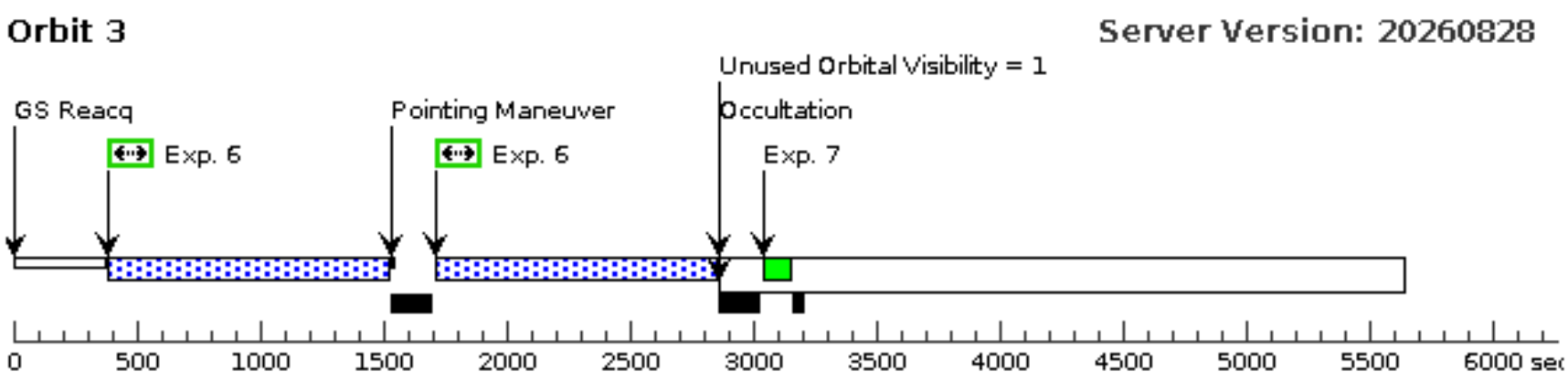
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(2026287)	(6) TOI-421	STIS/CCD, ACQ, F25ND3	MIRROR		PHASE 0.98813602 TO 0.99332246		8.4 Secs (8.4 Secs) *[==>]*	***[1]***
2	(2026288)	(6) TOI-421	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10207; WAVECAL=NO		Pattern 1, Exps 2-2 in TOI-421 c Transit (16) (1)	500 Secs (1732 Secs) *[==>866.0 Secs (Pattern 1)]* *[==>866.0 Secs (Pattern 2)]*	***[1]***
3		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[1]***
4	(2026288)	(6) TOI-421	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10207; WAVECAL=NO		Pattern 2, Exps 4-4 in TOI-421 c Transit (16) (2)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[2]***
5		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[2]***
6	(2026288)	(6) TOI-421	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10207; WAVECAL=NO		Pattern 1, Exps 6-6 in TOI-421 c Transit (16) (1)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[3]***
7		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[3]***
8	(2026288)	(6) TOI-421	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10207; WAVECAL=NO		Pattern 2, Exps 8-8 in TOI-421 c Transit (16) (2)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[4]***
9		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[4]***
10	(2026288)	(6) TOI-421	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	BUFFER-TIME=10207; WAVECAL=NO		Pattern 1, Exps 10-10 in TOI-421 c Transit (16) (1)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[5]***
11		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				*[==>]*	***[5]***

Orbit Structure






Orbit 3
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Pointing Maneuver
Occultation
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Exp. 6
Exp. 7
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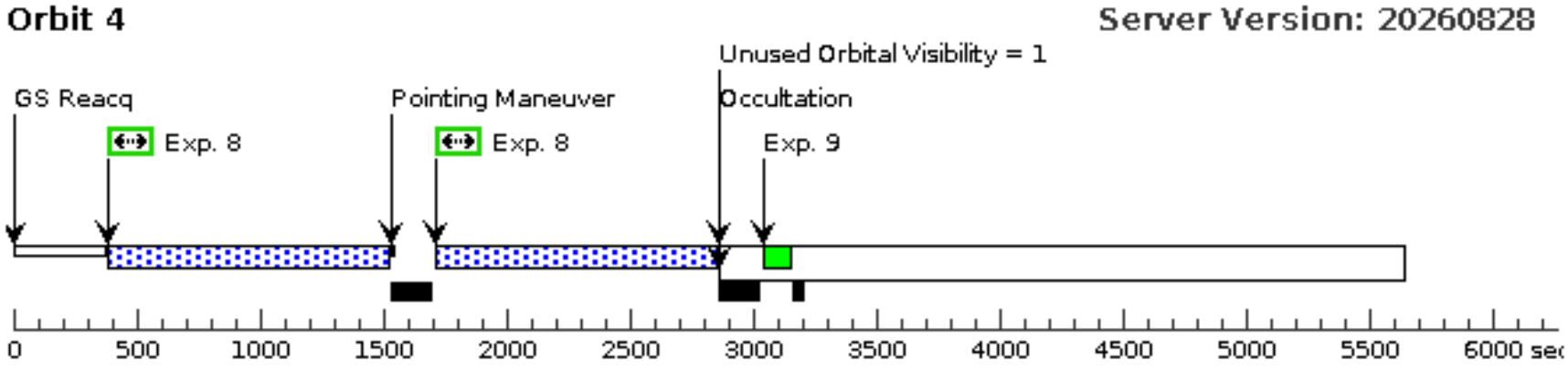
6000 sec


Orbit 4
Server Version: 20260828
Unused Orbital Visibility = 1
GS Reacq
Pointing Maneuver
Occultation
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Exp. 9
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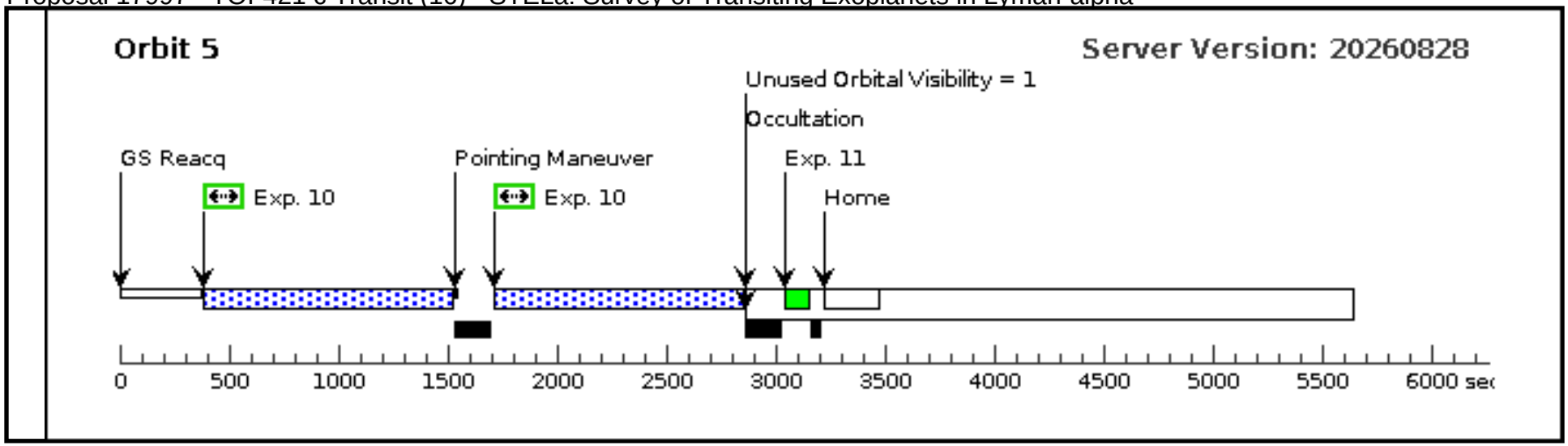
Orbit 5
Server Version: 20260828
Unused Orbital Visibility = 1
Occultation
GS Reacq
Exp. 10
Pointing Maneuver
Exp. 10
Exp. 11
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5000
5500
6000 sec

Visit

Proposal 17997, LTT1445A c Baseline (17), implementation Tue Sep 22 17:00:38 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%; ORIENT 56.42D TO 133.9 D; ORIENT 233.4D TO 309.7 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=true		(3)
(2)	Pattern Type=LINE Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=270 Angle Between Sides= Center Pattern=true		(5)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	LTT1445A	RA: 03 01 51.3937 (45.4641404d) Dec: -16 35 36.03 (-16.59334d) Equinox: J2000	Proper Motion RA: -369.972 mas/yr Proper Motion Dec: -267.9309999848556 mas/yr Parallax: 0.14569220000000002" Epoch of Position: 2000	V=10.529	Reference Frame: ICRS

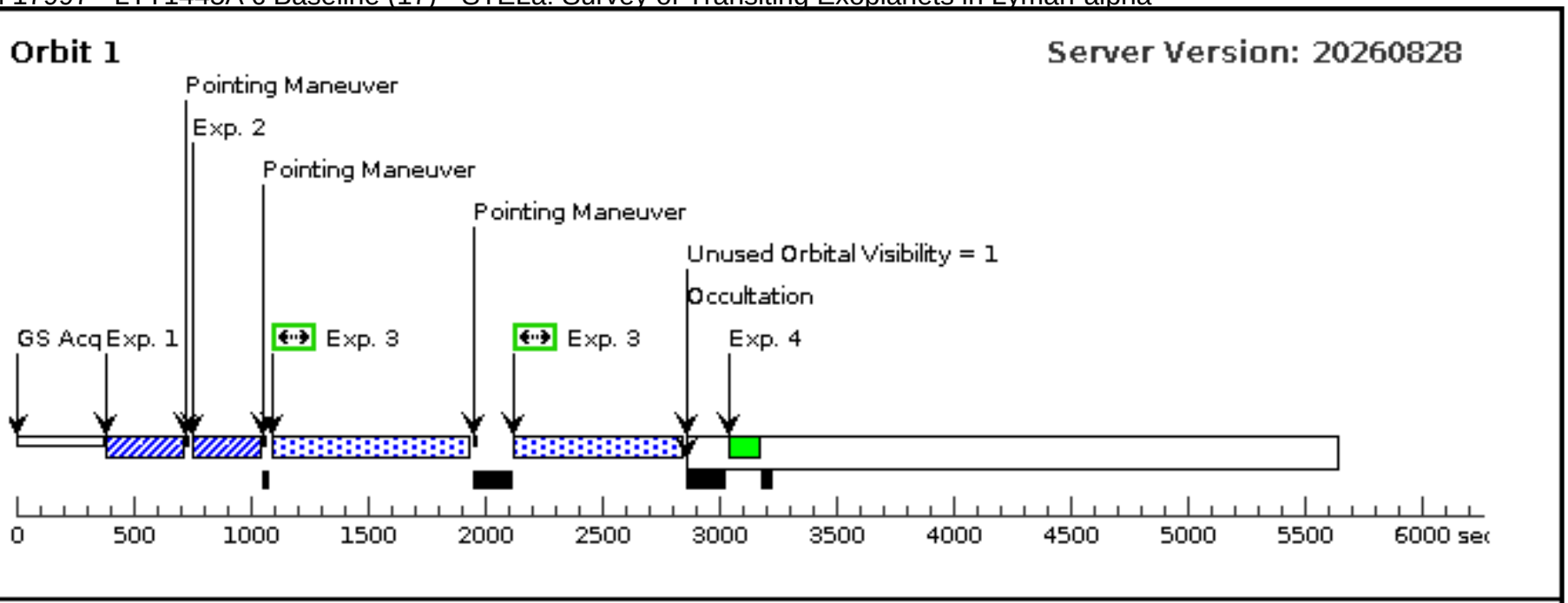
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

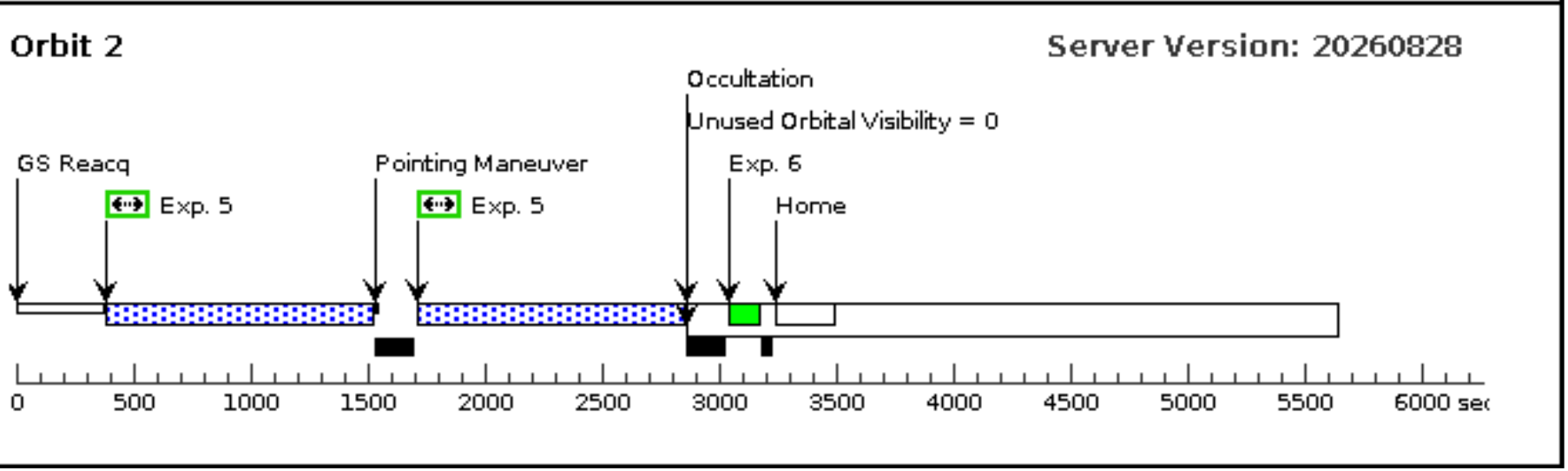
SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=STAR
Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(2360454)	(7) LTT1445A	STIS/CCD, ACQ, F25ND3	MIRROR				10.4 Secs (10.4 Secs) *[==>]*	 ***[1]***
Comments: acq time is geometric mean of recommended time and saturation time									
2	(2360455)	(7) LTT1445A	STIS/CCD, ACQ/PEAK, 52X0.05D1	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	 ***[1]***
3	(2026291)	(7) LTT1445A	STIS/FUV-MAMA, TIME-TAG, 52X0.05D1	G140M 1222 A	BUFFER-TIME=10118; WAVECAL=NO		Pattern 1, Exps 3-3 in LTT1445A c Baseline (17) (1)	500 Secs (1414 Secs) *[==>707.0 Secs (Pattern 1)]* *[==>707.0 Secs (Pattern 2)]*	 ***[1]***
4		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.05	G140M 1222 A				*[==>]*	***[1]***
5	(2026291)	(7) LTT1445A	STIS/FUV-MAMA, TIME-TAG, 52X0.05D1	G140M 1222 A	BUFFER-TIME=10118; WAVECAL=NO		Pattern 2, Exps 5-5 in LTT1445A c Baseline (17) (2)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	 ***[2]***
6		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.05	G140M 1222 A				*[==>]*	***[2]***

Orbit Structure





Visit

Proposal 17997, LTT1445A c Transit (18), implementation Tue Sep 22 17:00:38 GMT 2026

Diagnostic Status: Informational

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%; SAME ORIENT AS 17; AFTER 17 BY 6 H TO 24 H; Period 3.12389800000 D AND ZERO-PHASE HJD2458425.07818200

Diagnostics

(LTT1445A c Transit (18)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=true		(3), (7), (11)
(2)	Pattern Type=LINE Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=270 Angle Between Sides= Center Pattern=true		(5), (9)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	LTT1445A	RA: 03 01 51.3937 (45.4641404d) Dec: -16 35 36.03 (-16.59334d) Equinox: J2000	Proper Motion RA: -369.972 mas/yr Proper Motion Dec: -267.9309999848556 mas/yr Parallax: 0.14569220000000002" Epoch of Position: 2000	V=10.529	Reference Frame: ICRS

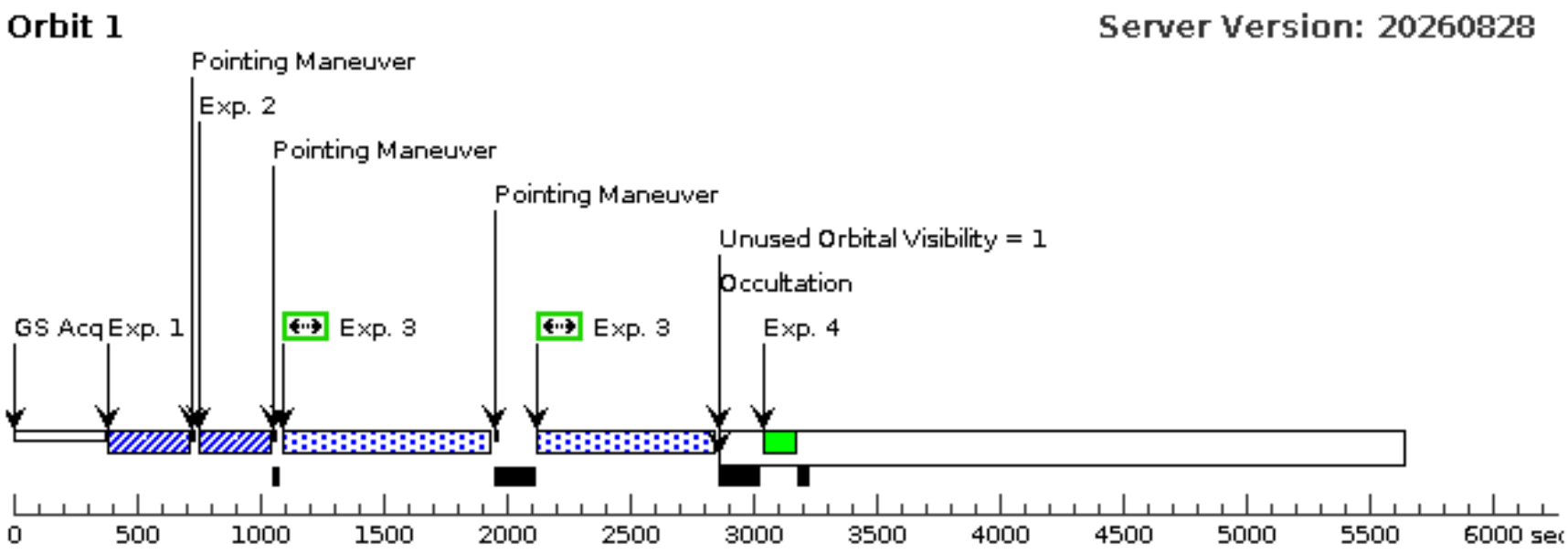
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

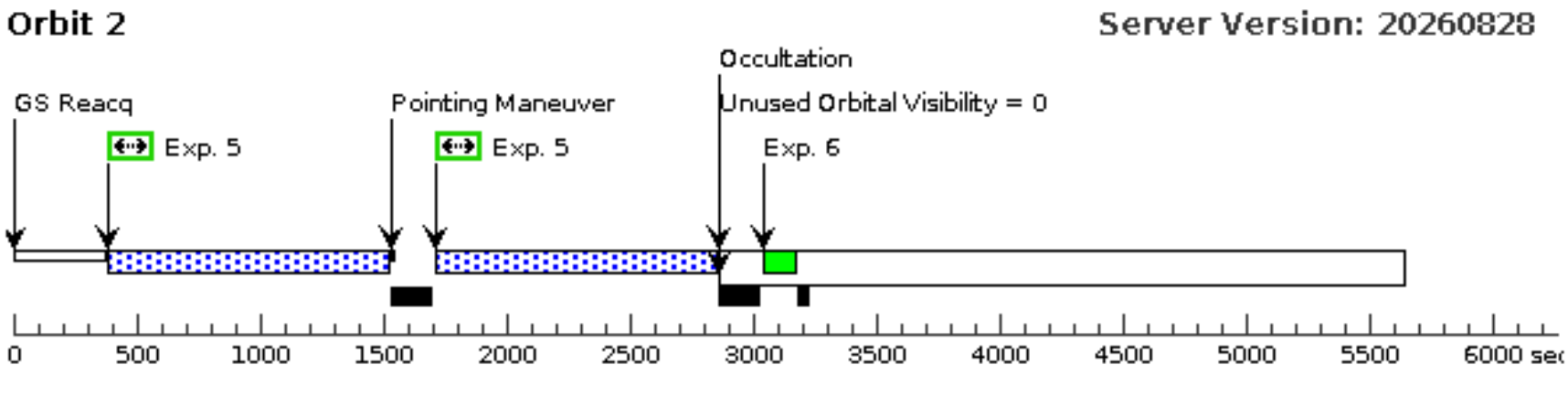
SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=STAR
Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]

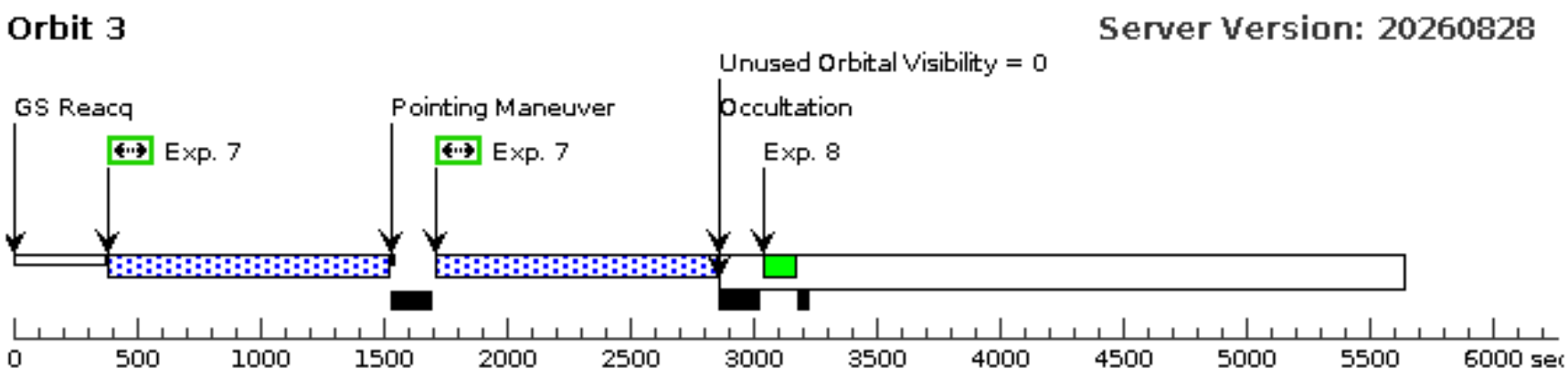
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(2360454)	(7) LTT1445A	STIS/CCD, ACQ, F25ND3	MIRROR		PHASE 0.95288338 47968148 TO 0.9795 594585141171		10.4 Secs (10.4 Secs) *[==>]*	***[1]***
Comments: acq time is geometric mean of recommended time and saturation time									
2	(2360455)	(7) LTT1445A	STIS/CCD, ACQ/PEAK, 52X0.05D1	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	***[1]***
3	(2026291)	(7) LTT1445A	STIS/FUV-MAMA, TIME-TAG, 52X0.05D1	G140M 1222 A	BUFFER-TIME=10118; WAVECAL=NO		Pattern 1, Exps 3-3 in LTT1445A c Transit (18) (1)	500 Secs (1414 Secs) *[==>707.0 Secs (Pattern 1)]* *[==>707.0 Secs (Pattern 2)]*	***[1]***
4		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.05	G140M 1222 A				*[==>]*	***[1]***
5	(2026291)	(7) LTT1445A	STIS/FUV-MAMA, TIME-TAG, 52X0.05D1	G140M 1222 A	BUFFER-TIME=10118; WAVECAL=NO		Pattern 2, Exps 5-5 in LTT1445A c Transit (18) (2)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[2]***
6		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.05	G140M 1222 A				*[==>]*	***[2]***
7	(2026291)	(7) LTT1445A	STIS/FUV-MAMA, TIME-TAG, 52X0.05D1	G140M 1222 A	BUFFER-TIME=10118; WAVECAL=NO		Pattern 1, Exps 7-7 in LTT1445A c Transit (18) (1)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[3]***
8		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.05	G140M 1222 A				*[==>]*	***[3]***
9	(2026291)	(7) LTT1445A	STIS/FUV-MAMA, TIME-TAG, 52X0.05D1	G140M 1222 A	BUFFER-TIME=10118; WAVECAL=NO		Pattern 2, Exps 9-9 in LTT1445A c Transit (18) (2)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[4]***
10		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.05	G140M 1222 A				*[==>]*	***[4]***
11	(2026291)	(7) LTT1445A	STIS/FUV-MAMA, TIME-TAG, 52X0.05D1	G140M 1222 A	BUFFER-TIME=10118; WAVECAL=NO		Pattern 1, Exps 11-11 in LTT1445A c Transit (18) (1)	500 Secs (2248 Secs) *[==>1124.0 Secs (Pattern 1)]* *[==>1124.0 Secs (Pattern 2)]*	***[5]***
12		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.05	G140M 1222 A				*[==>]*	***[5]***

Orbit Structure



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GS Reacq
Pointing Maneuver
Occultation
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Exp. 7
Exp. 8
0
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1000
1500
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3000
3500
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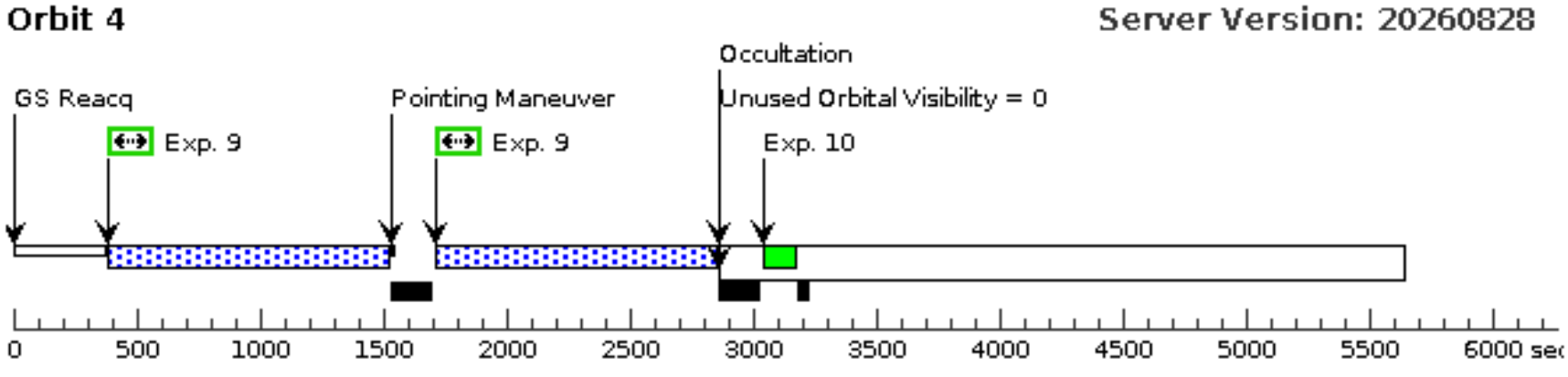
4500
5000
5500
6000 sec


Orbit 4
Server Version: 20260828
Occultation
GS Reacq
Pointing Maneuver
Unused Orbital Visibility = 0
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Exp. 9
Exp. 10
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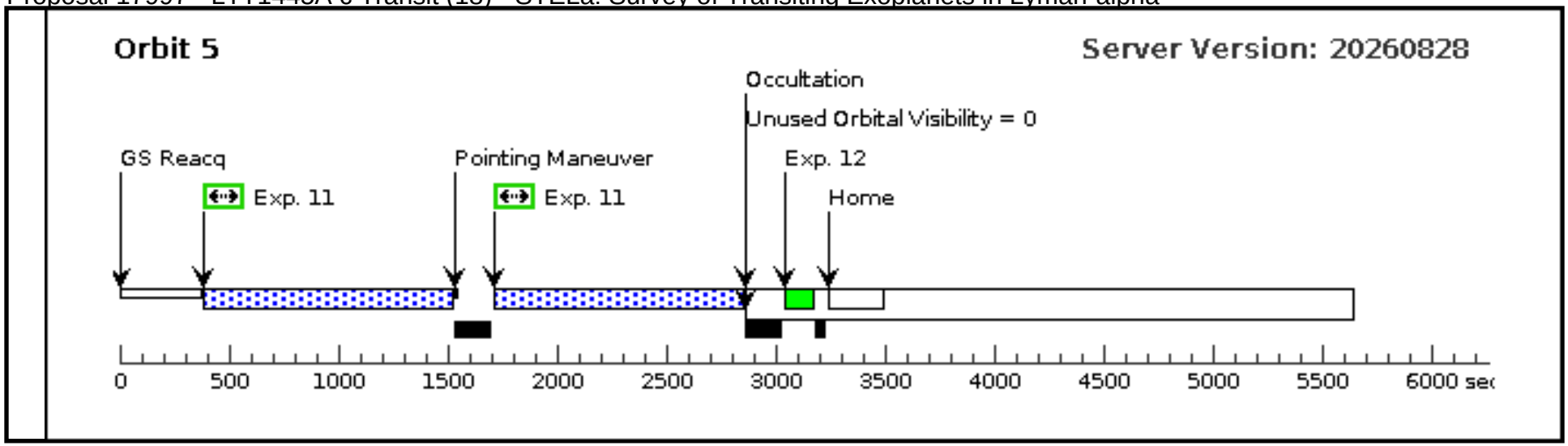
5000
5500
6000 sec


Orbit 5
Server Version: 20260828
Occultation
Unused Orbital Visibility = 0
GS Reacq
Exp. 11
Pointing Maneuver
Exp. 11
Exp. 12
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec