18001 - Completing Panchromatic Spectra for High Priority HWO Target Stars

Cycle: 33, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

Name	*Institution*
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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) -ETA-CRV	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	17-Mar-2026 15:00:15.0	yes
02	(2) -BET-VIR	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	17-Mar-2026 15:00:16.0	yes
03	(3) -BET-COM	STIS/CCD STIS/FUV-MAMA	1	17-Mar-2026 15:00:16.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
04	(4) HD-193664	STIS/CCD STIS/NUV-MAMA	1	17-Mar-2026 15:00:17.0	yes
05	(4) HD-193664	STIS/CCD STIS/FUV-MAMA	3	17-Mar-2026 15:00:17.0	yes
06	(5) -ZET01-RET	STIS/CCD STIS/NUV-MAMA	1	17-Mar-2026 15:00:18.0	yes
07	(5) -ZET01-RET	STIS/CCD STIS/FUV-MAMA	3	17-Mar-2026 15:00:18.0	yes
08	(6) HD-76151	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	17-Mar-2026 15:00:19.0	yes
09	(6) HD-76151	STIS/CCD STIS/FUV-MAMA	3	17-Mar-2026 15:00:20.0	yes
10	(7) -11-LMI	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	17-Mar-2026 15:00:21.0	yes
11	(7) -11-LMI	STIS/CCD STIS/FUV-MAMA	3	17-Mar-2026 15:00:22.0	yes
12	(8) HD-17925	STIS/CCD STIS/FUV-MAMA	2	17-Mar-2026 15:00:22.0	yes
13	(8) HD-17925	STIS/CCD STIS/FUV-MAMA	2	17-Mar-2026 15:00:22.0	yes
14	(9) HD-50281	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	3	17-Mar-2026 15:00:23.0	yes
15	(9) HD-50281	STIS/CCD STIS/FUV-MAMA	3	17-Mar-2026 15:00:24.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
16	(10) HD-131977	STIS/CCD STIS/NUV-MAMA	1	17-Mar-2026 15:00:24.0	yes
17	(10) HD-131977	STIS/CCD STIS/FUV-MAMA	3	17-Mar-2026 15:00:25.0	yes

37 Total Orbits Used

ABSTRACT

The Habitable Worlds Observatory (HWO) will enable the first direct imaging and spectral characterization of terrestrial exoplanets in the habitable zones of nearby stars. However, interpreting these spectra and assessing planetary habitability requires a complete understanding of the high-energy stellar radiation that drives atmospheric chemistry and photochemistry. While some HWO target stars have existing X-ray or UV observations, most lack high-quality data across the full high-energy spectrum. Only 1/3 have either FUV or NUV HST spectra and 1/5 have both. Likewise, only a fraction have X-ray measurements, limiting our ability to construct comprehensive stellar SEDs. We propose FUV and NUV spectroscopy of 10 key stars that currently lack full UV coverage but have existing X-ray data, enabling self-consistent panchromatic SEDs for a subset of HWO's most promising targets.

These observations will provide critical missing constraints on stellar radiation environments, allowing for improved exoplanet atmosphere modeling, photochemical studies, and biosignature detectability assessments. Specifically, this dataset will: (1) establish a high-energy spectral library for a representative sample of HWO-relevant stars, (2) refine stellar atmosphere models to improve planetary atmospheric retrievals, (3) constrain interstellar medium attenuation for Lyman alpha and EUV reconstructions, and (4) lay the groundwork for future studies on stellar activity, atmospheric escape, and exoplanet habitability. By securing these data now, we ensure that HWO operates with the most complete empirical understanding of its target stars, maximizing its scientific return.

OBSERVING DESCRIPTION

We will use two observing modes on STIS to measure a complete UV dataset for each of the proposed target stars, requesting a total of 37 orbits:

The NUV observations will be taken with the E230H high resolution echelle (R = 114,000), centered at 2713 A, which includes Fe II lines at 2586 and 2600 A and the Mg II doublet at 2796 and 2803 A. We choose the 0".2x0".09 slit to optimize resolution, similar to what has been done for most HWO target stars with existing NUV observations. Beta Com and GL 117 have archival measurements with this mode, so we do not seek to re-

observe these two targets. Two additional targets, eta Crv and beta Vir, exceed the bright object limits with the 0".2x0".09 slit, so we opt to use a neutral density filter (0".2x0".05 ND) to reduce the UV throughput.

The FUV observations will be taken with the E140M medium resolution echelle (R = 45,800), centered at 1425 A. The 1144-1730 A wavelength range samples several emission lines, including Lyman alpha (1215.67 A) and the N V (1240 A), Si IV (1400 A), and C IV (1550 A) doublets. We choose the 0."2x0".2 slit for these observations because they have been used successfully for similar HWO target stars with existing FUV observations.

Visit

Proposal 18001, eta Crv (01), scheduling Tue Mar 17 19:00:25 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	-ETA-CRV	RA: 12 32 4.2264 (188.0176100d) Dec: -16 11 45.62 (-16.19601d) Equinox: J2000	Proper Motion RA: -424.597 mas/yr Proper Motion Dec: -58.24099996516452 mas/yr Parallax: 0.0548135" Epoch of Position: 2000	V=4.294	Reference Frame: ICRS

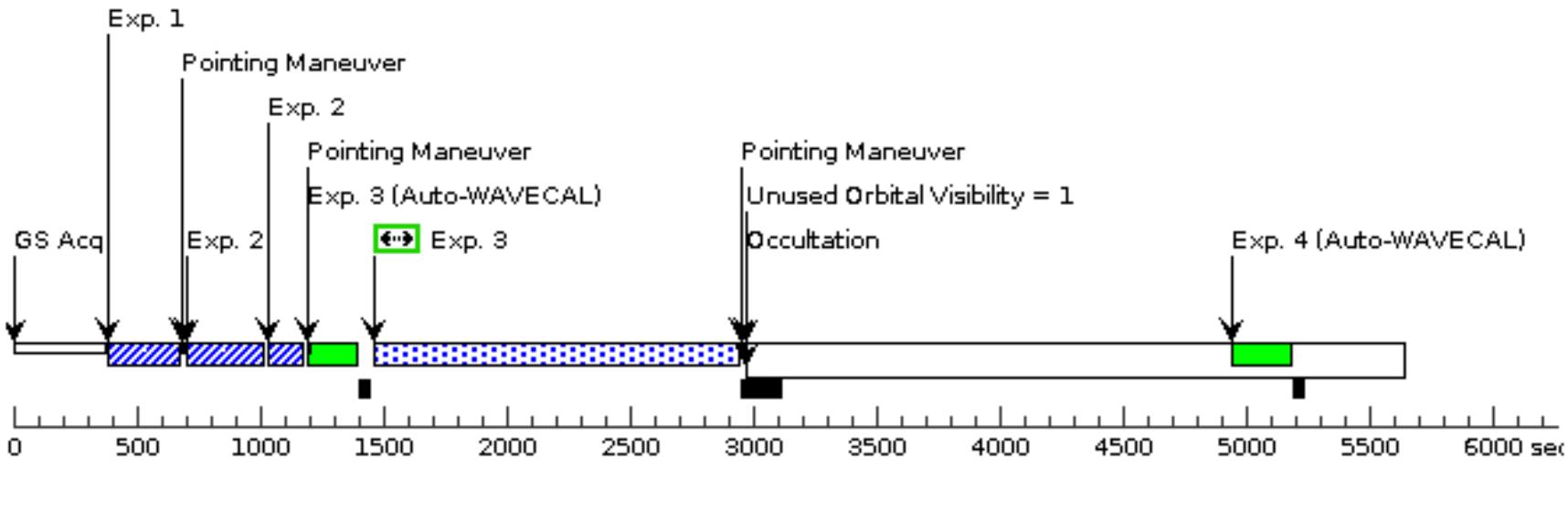
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

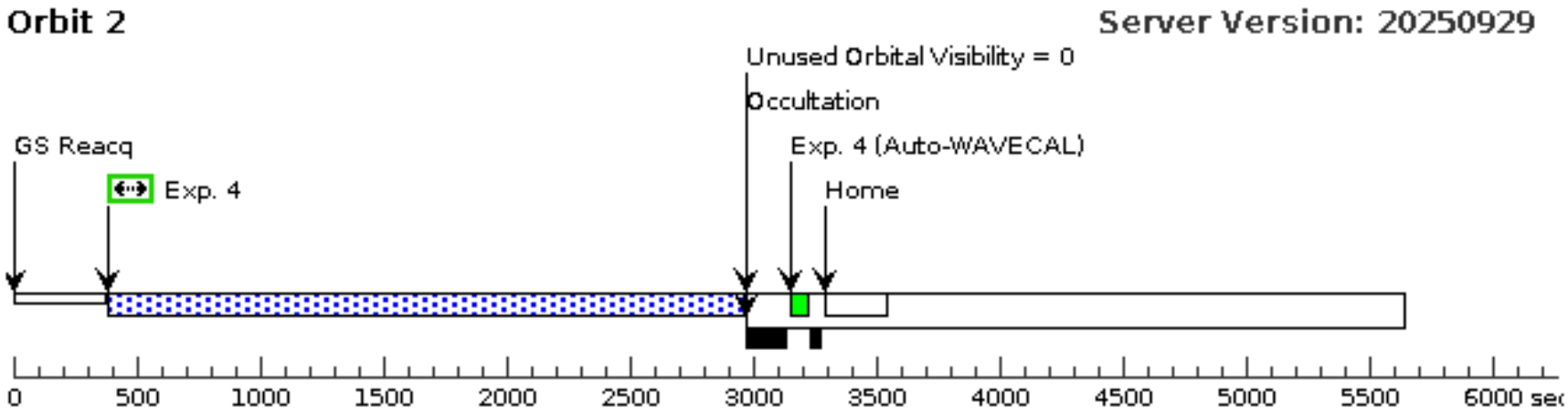
SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=STAR
Description=[F0-F2]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.2024380)	(1) -ETA-CRV	STIS/CCD, ACQ, F25ND5	MIRROR				0.9 Secs (0.9 Secs) *[==>]*	***[1]***
2	ACQ/PEAK (STIS.ta.2024515)	(1) -ETA-CRV	STIS/CCD, ACQ/PEAK, 0.3X0.05ND	MIRROR				1 Secs (1 Secs) *[==>]*	***[1]***
3	Spec - NUV (STIS.sp.2024788)	(1) -ETA-CRV	STIS/NUV-MAMA, TIME-TAG, 0.2X0.05ND	E230H 2713 A	BUFFER-TIME=732			1433 Secs (1433 Secs) *[==>]*	***[1]***
4	Spec - FUV (STIS.sp.2024789)	(1) -ETA-CRV	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1283			2566 Secs (2566 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 18001, beta Vir (02), implementation Tue Mar 17 19:00:25 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	-BET-VIR	RA: 11 50 41.7185 (177.6738271d) Dec: +01 45 53.00 (1.76472d) Equinox: J2000	Proper Motion RA: 740.746 mas/yr Proper Motion Dec: -270.9269999513708 mas/yr Parallax: 0.09089449999999999" Epoch of Position: 2000	V=3.6	Reference Frame: ICRS

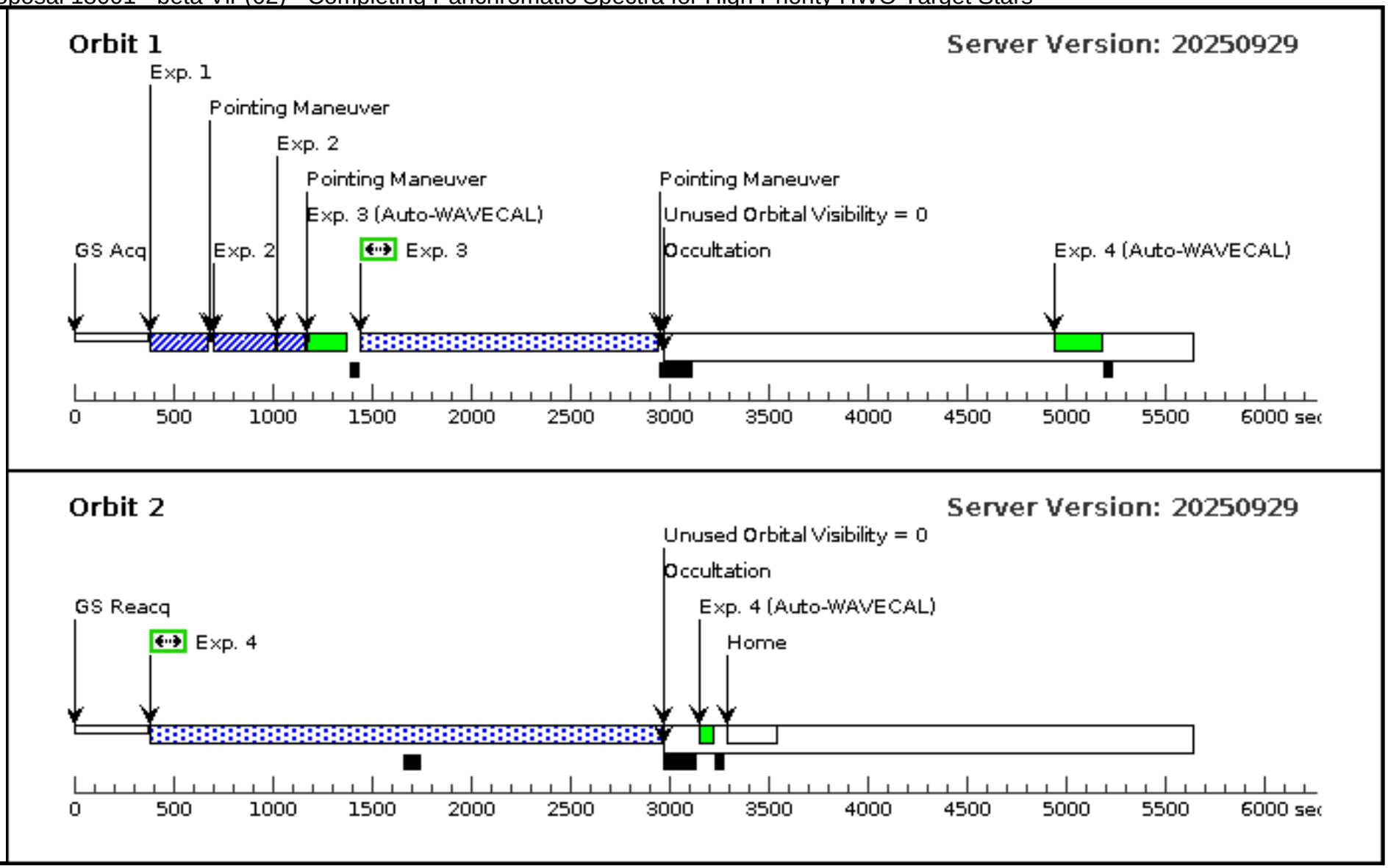
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

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=[F3-F9]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.2024443)	(2) -BET-VIR	STIS/CCD, ACQ, F25ND5	MIRROR				0.4 Secs (0.4 Secs) *[==>]*	 ***[1]***
2	ACQ/PEAK (STIS.ta.2024519)	(2) -BET-VIR	STIS/CCD, ACQ/PEAK, 0.3X0.05ND	MIRROR				0.5 Secs (0.5 Secs) *[==>]*	 ***[1]***
3	Spec-NUV (STIS.sp.2024791)	(2) -BET-VIR	STIS/NUV-MAMA, TIME-TAG, 0.2X0.05ND	E230H 2713 A	BUFFER-TIME=794			1451 Secs (1451 Secs) *[==>]*	 ***[1]***
4	Spec-FUV (STIS.sp.2024795)	(2) -BET-VIR	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1284			2569 Secs (2569 Secs) *[==>]*	 ***[2]***

Orbit Structure



Visit

Proposal 18001, beta Com (03), implementation Tue Mar 17 19:00:25 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	-BET-COM	RA: 13 11 52.3938 (197.9683075d) Dec: +27 52 41.46 (27.87818d) Equinox: J2000	Proper Motion RA: -800.72 mas/yr Proper Motion Dec: 882.3009999999999 mas/yr Parallax: 0.10872499999999999" Epoch of Position: 2000	V=4.25	Reference Frame: ICRS

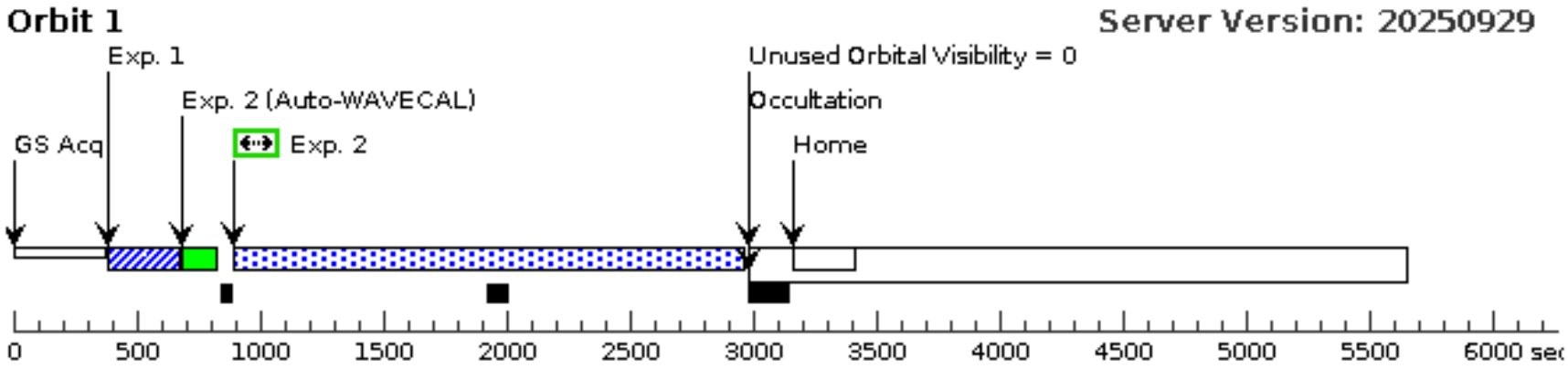
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

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=[G V-IV]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.2024444)	(3) -BET-COM	STIS/CCD, ACQ, F25ND5	MIRROR				0.7 Secs (0.7 Secs) *[==>]*	*[1]*
2	Spec-FUV (STIS.sp.2270064)	(3) -BET-COM	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1027			2055 Secs (2055 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 18001, GL 788 (04), scheduling Tue Mar 17 19:00:25 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	HD-193664	RA: 20 17 31.3281 (304.3805337d) Dec: +66 51 13.28 (66.85369d) Equinox: J2000	Proper Motion RA: 468.6840000000001 mas/yr Proper Motion Dec: 297.589 mas/yr Parallax: 0.057204099999999994" Epoch of Position: 2000	V=5.86+/-0.1	Reference Frame: ICRS

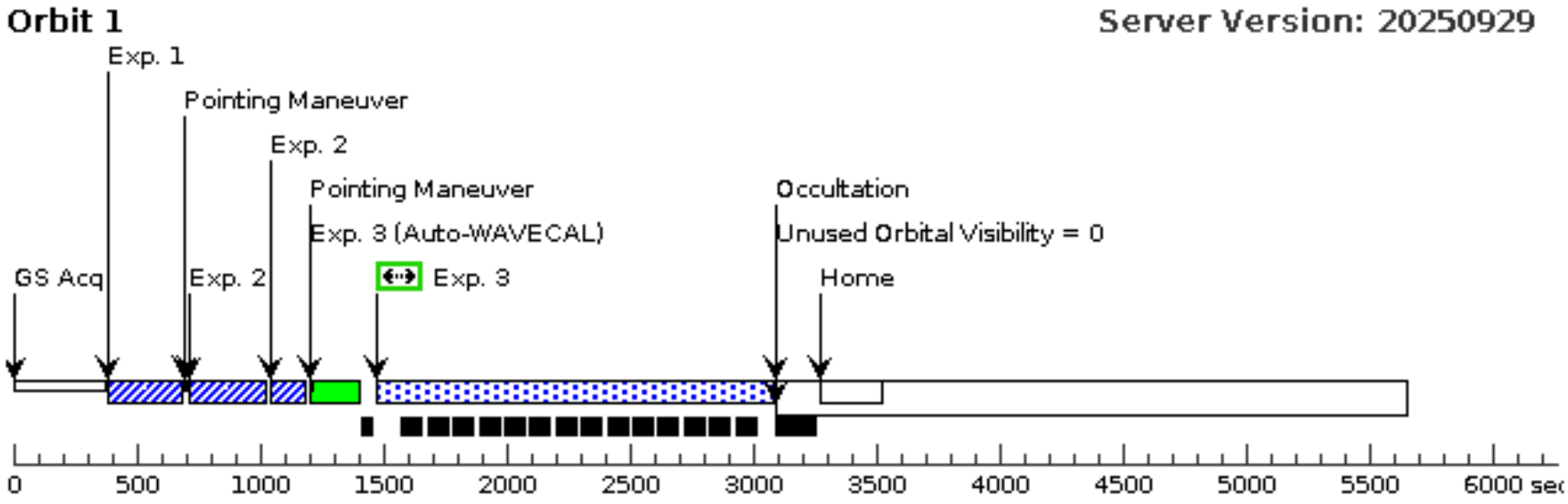
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

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=[G V-IV]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.2024445)	(4) HD-193664	STIS/CCD, ACQ, F25ND5	MIRROR				3.2 Secs (3.2 Secs) *[==>]*	*[1]*
2	ACQ/PEAK (STIS.ta.2024521)	(4) HD-193664	STIS/CCD, ACQ/PEAK, 0.3X0.05ND	MIRROR				1 Secs (1 Secs) *[==>]*	*[1]*
3	Spec-NUV (STIS.sp.2024826)	(4) HD-193664	STIS/NUV-MAMA, TIME-TAG, 0.2X0.09	E230H 2713 A	BUFFER-TIME=104			1590 Secs (1590 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 18001, GL 788 (05), scheduling Tue Mar 17 19:00:25 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	HD-193664	RA: 20 17 31.3281 (304.3805337d) Dec: +66 51 13.28 (66.85369d) Equinox: J2000	Proper Motion RA: 468.6840000000001 mas/yr Proper Motion Dec: 297.589 mas/yr Parallax: 0.057204099999999994" Epoch of Position: 2000	V=5.86+/-0.1	Reference Frame: ICRS

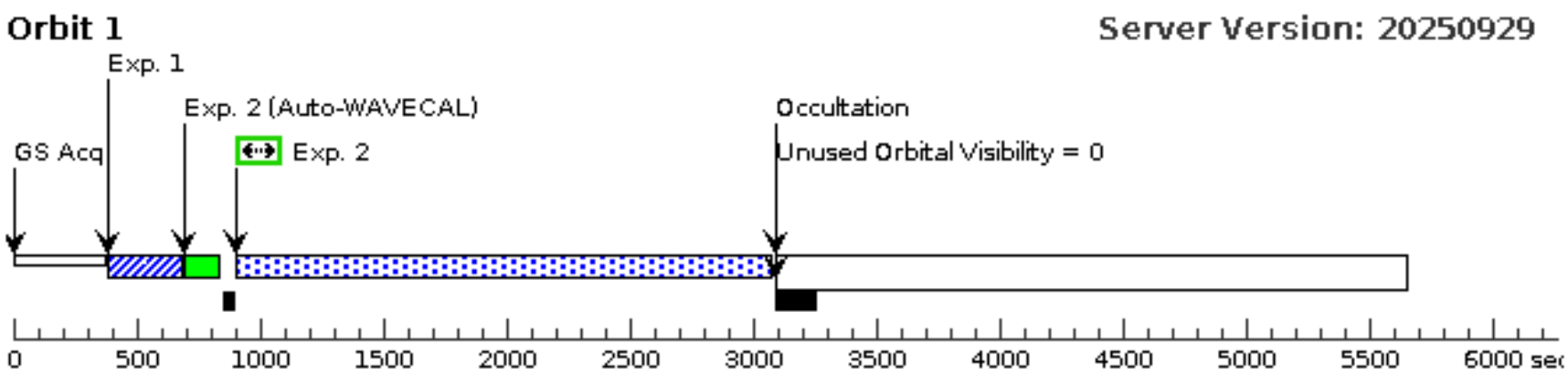
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

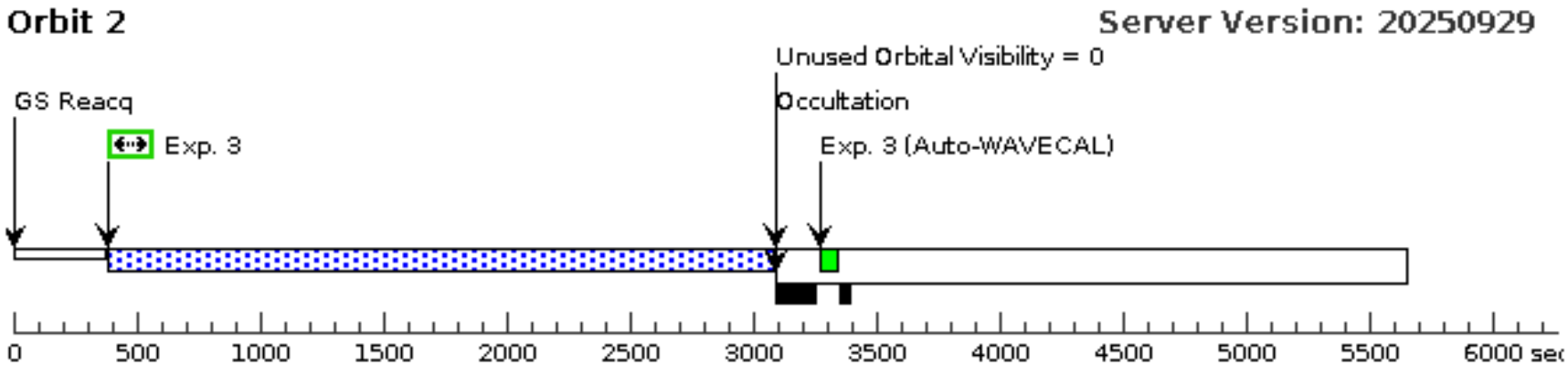
SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=STAR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

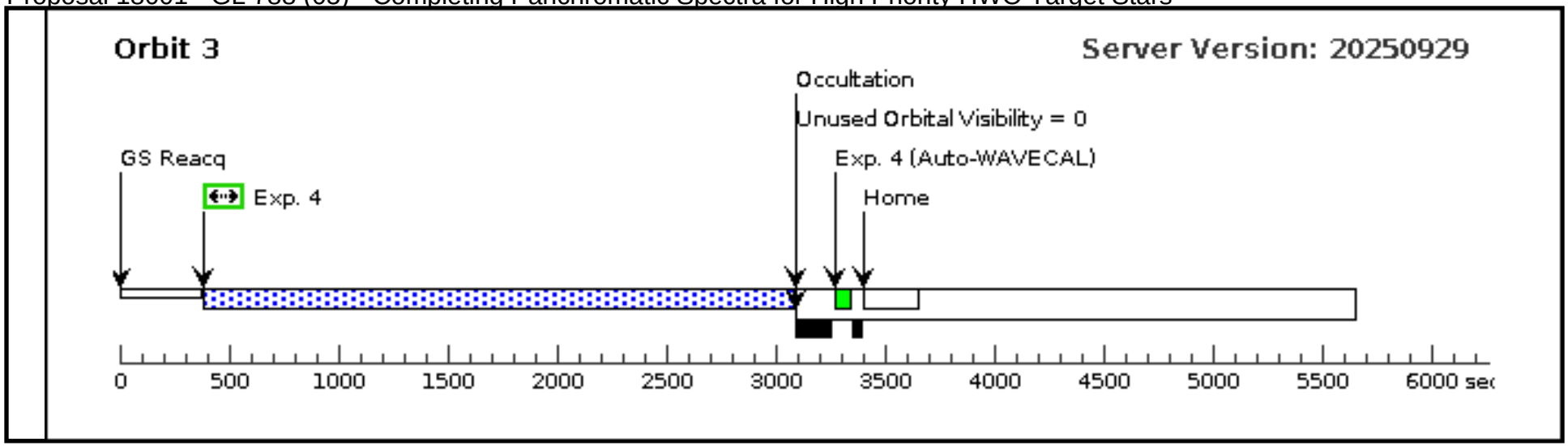
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.2024445)	(4) HD-193664	STIS/CCD, ACQ, F25ND5	MIRROR				3.2 Secs (3.2 Secs) *[==>]*	 ***[1]***
2	Spec-FUV (STIS.sp.2024810)	(4) HD-193664	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1077			2154 Secs (2154 Secs) *[==>]*	 ***[1]***
3	Spec-FUV (STIS.sp.2269991)	(4) HD-193664	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1341			2682 Secs (2682 Secs) *[==>]*	 ***[2]***
4	Spec-FUV (STIS.sp.2269991)	(4) HD-193664	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1341			2682 Secs (2682 Secs) *[==>]*	 ***[3]***

Orbit Structure



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Occultation
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GS Reacq
Exp. 4
Exp. 4 (Auto-WAVECAL)
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 18001, zeta Ret (06), implementation Tue Mar 17 19:00:25 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	-ZET01-RET	RA: 03 17 46.1635 (49.4423479d) Dec: -62 34 31.15 (-62.57532d) Equinox: J2000	Proper Motion RA: 1337.53 mas/yr Proper Motion Dec: 649.84 mas/yr Parallax: 0.083024" Epoch of Position: 2000	V=5.54	Reference Frame: ICRS

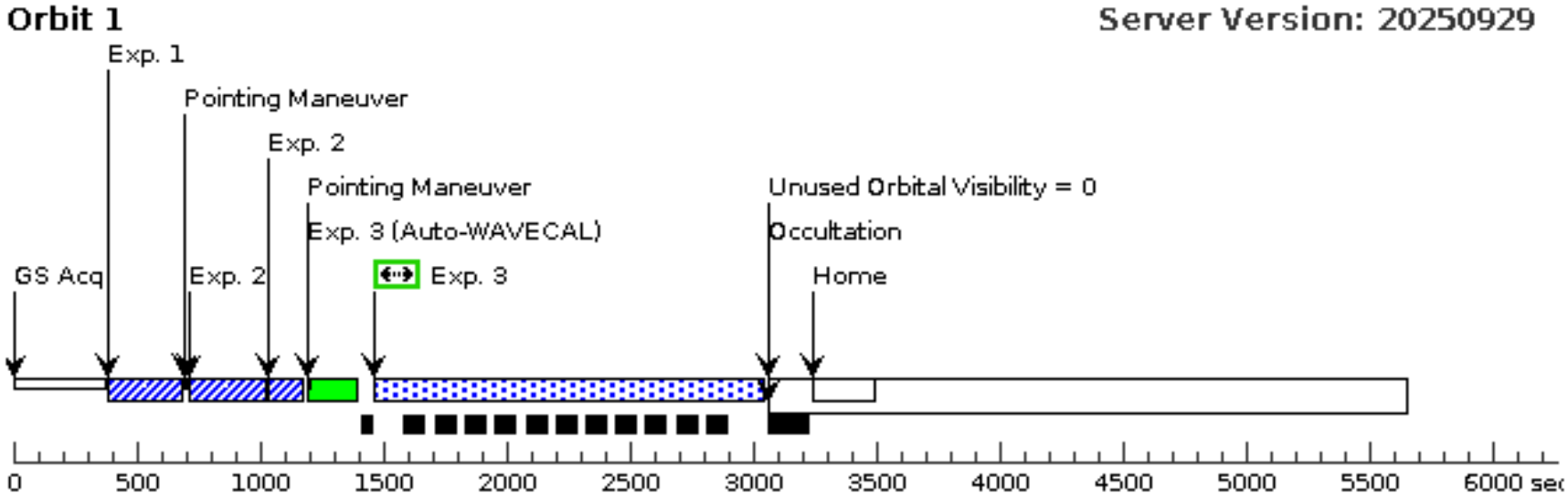
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

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=[G V-IV]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.2024446)	(5) -ZET01-RET	STIS/CCD, ACQ, F25ND5	MIRROR				2.4 Secs (2.4 Secs) *[==>]*	*[1]*
2	ACQ/PEAK (STIS.ta.2024522)	(5) -ZET01-RET	STIS/CCD, ACQ/PEAK, 0.3X0.05ND	MIRROR				1 Secs (1 Secs) *[==>]*	*[1]*
3	Spec-NUV (STIS.sp.2024837)	(5) -ZET01-RET	STIS/NUV-MAMA, TIME-TAG, 0.2X0.09	E230H 2713 A	BUFFER-TIME=122			1566 Secs (1566 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 18001, zeta Ret (07), implementation Tue Mar 17 19:00:26 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	-ZET01-RET	RA: 03 17 46.1635 (49.4423479d) Dec: -62 34 31.15 (-62.57532d) Equinox: J2000	Proper Motion RA: 1337.53 mas/yr Proper Motion Dec: 649.84 mas/yr Parallax: 0.083024" Epoch of Position: 2000	V=5.54	Reference Frame: ICRS

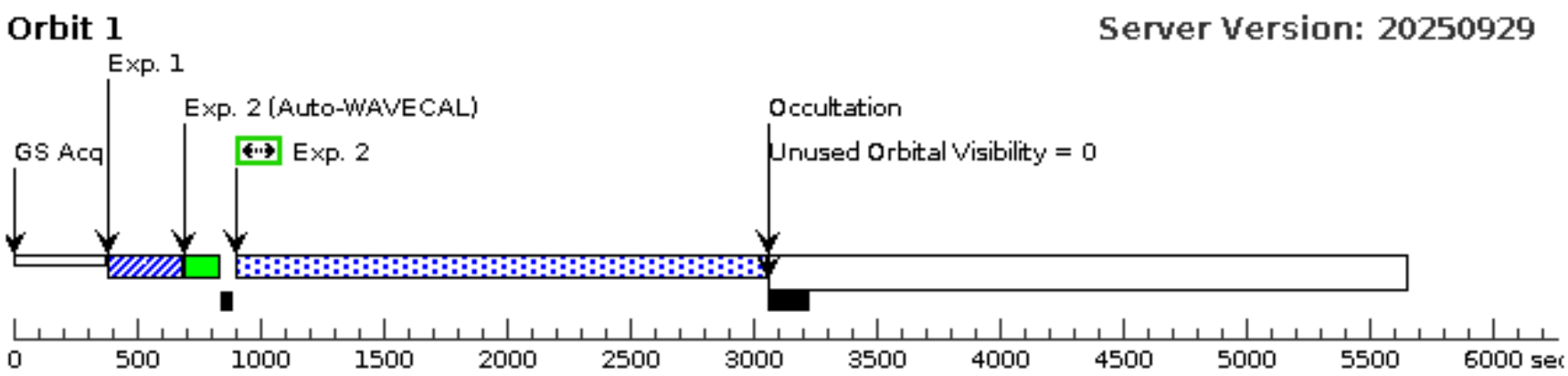
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

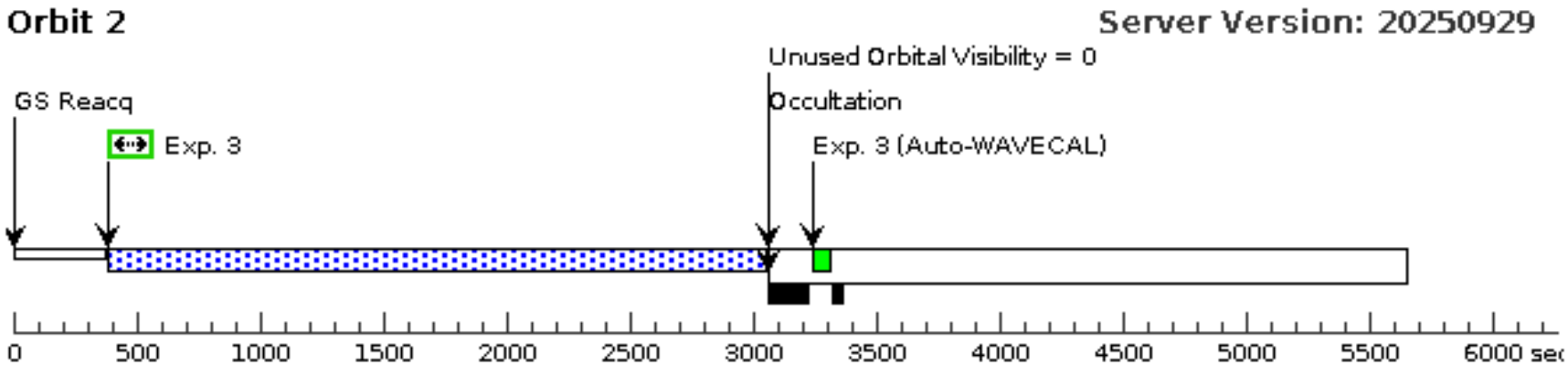
SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=STAR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

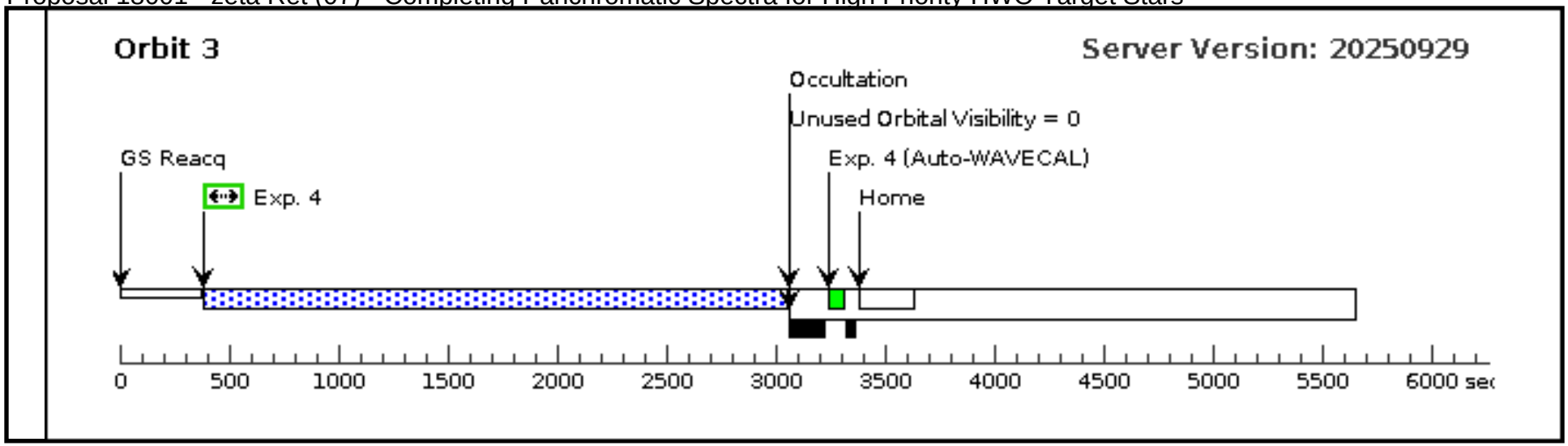
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.2024446)	(5) -ZET01-RET	STIS/CCD, ACQ, F25ND5	MIRROR				2.4 Secs (2.4 Secs) *[==>]*	***[1]***
2	Spec-FUV (STIS.sp.2024841)	(5) -ZET01-RET	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1065			2130 Secs (2130 Secs) *[==>]*	***[1]***
3	Spec-FUV (STIS.sp.2024841)	(5) -ZET01-RET	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1327			2654 Secs (2654 Secs) *[==>]*	***[2]***
4	Spec-FUV (STIS.sp.2024841)	(5) -ZET01-RET	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1327			2654 Secs (2654 Secs) *[==>]*	***[3]***

Orbit Structure






Orbit 3
Server Version: 20250929
Occultation
Unused Orbital Visibility = 0
GS Reacq
Exp. 4 (Auto-WAVECAL)
Exp. 4
Home
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1500
2000
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3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 18001, GL 327 (08), implementation Tue Mar 17 19:00:26 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	HD-76151	RA: 08 54 17.9471 (133.5747796d) Dec: -05 26 4.05 (-5.43446d) Equinox: J2000	Proper Motion RA: -413.648 mas/yr Proper Motion Dec: 30.619000000000003 mas/yr Parallax: 0.059359499999999996" Epoch of Position: 2000	V=6.0	Reference Frame: ICRS

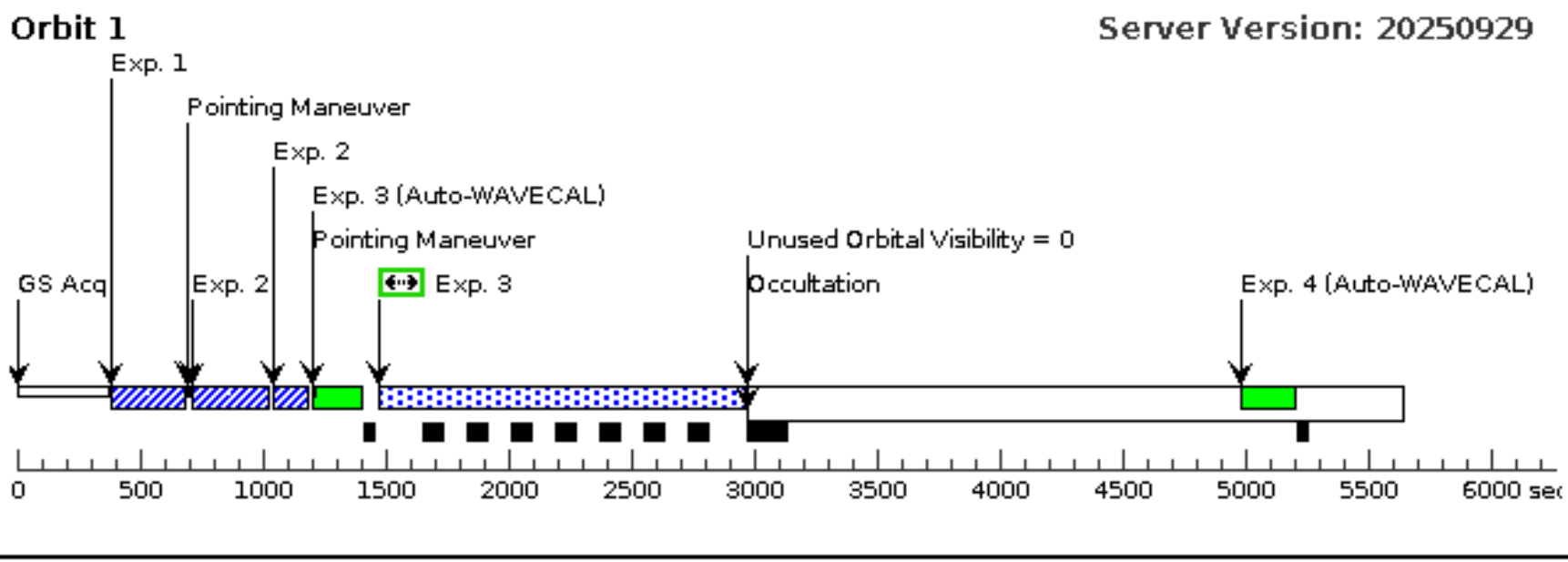
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

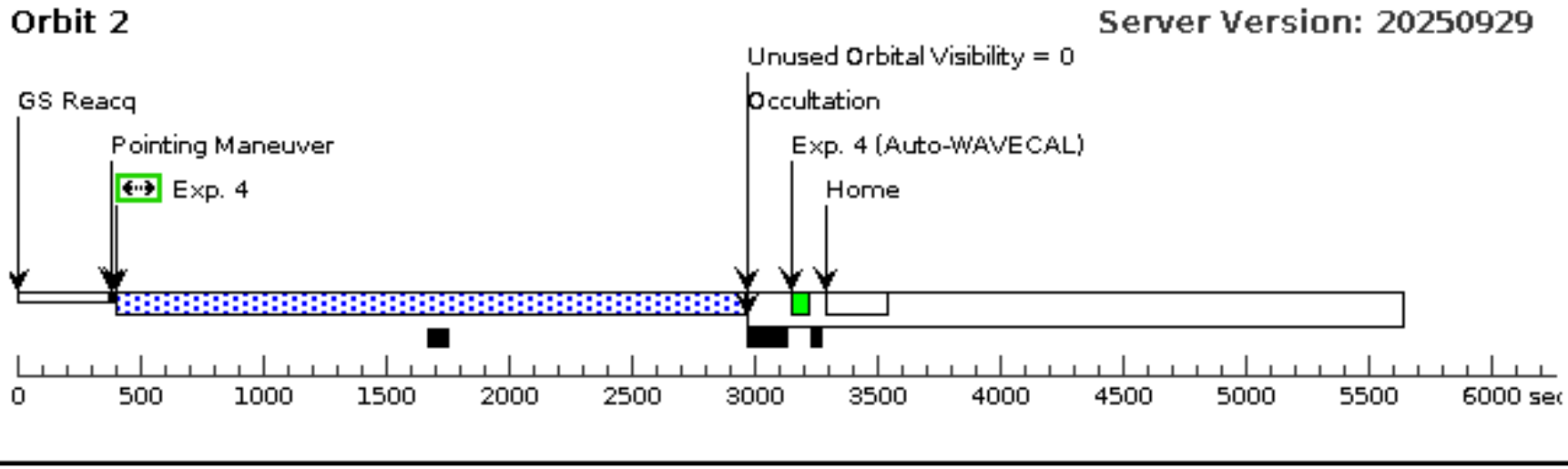
SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=STAR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

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.2024447)	(6) HD-76151	STIS/CCD, ACQ, F25ND5	MIRROR				3.6 Secs (3.6 Secs) *[==>]*	***[1]***
2	ACQ/PEAK (STIS.ta.2024526)	(6) HD-76151	STIS/CCD, ACQ/PEAK, 0.3X0.05ND	MIRROR				1 Secs (1 Secs) *[==>]*	***[1]***
3	Spec-NUV (STIS.sp.2024850)	(6) HD-76151	STIS/NUV-MAMA, TIME-TAG, 0.2X0.09	E230H 2713 A	BUFFER-TIME=179			1473 Secs (1473 Secs) *[==>]*	***[1]***
4	Spec-FUV (STIS.sp.2024854)	(6) HD-76151	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1273			2547 Secs (2547 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 18001, GL 327 (09), implementation Tue Mar 17 19:00:26 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	HD-76151	RA: 08 54 17.9471 (133.5747796d) Dec: -05 26 4.05 (-5.43446d) Equinox: J2000	Proper Motion RA: -413.648 mas/yr Proper Motion Dec: 30.619000000000003 mas/yr Parallax: 0.059359499999999996" Epoch of Position: 2000	V=6.0	Reference Frame: ICRS

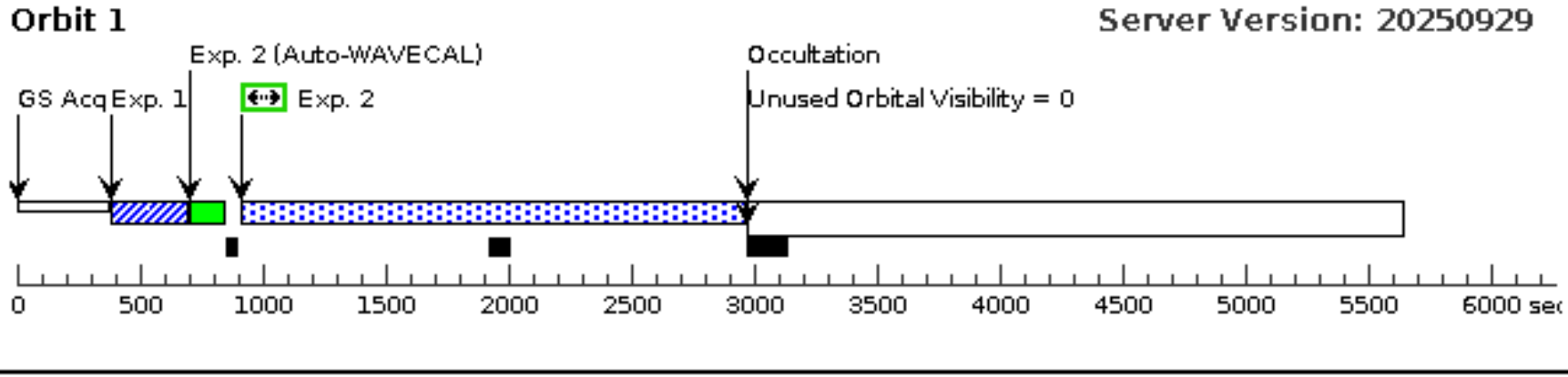
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

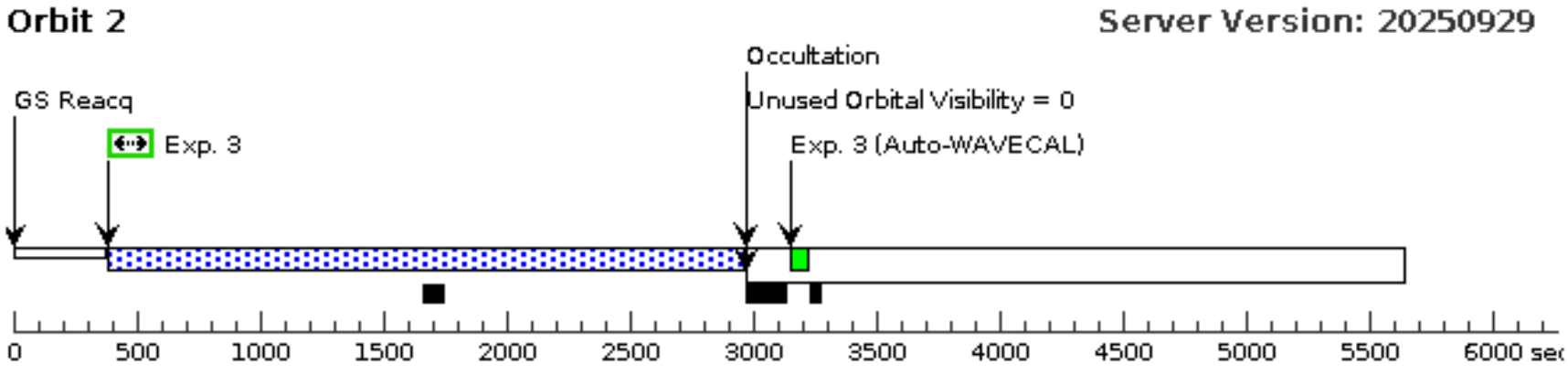
SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=STAR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

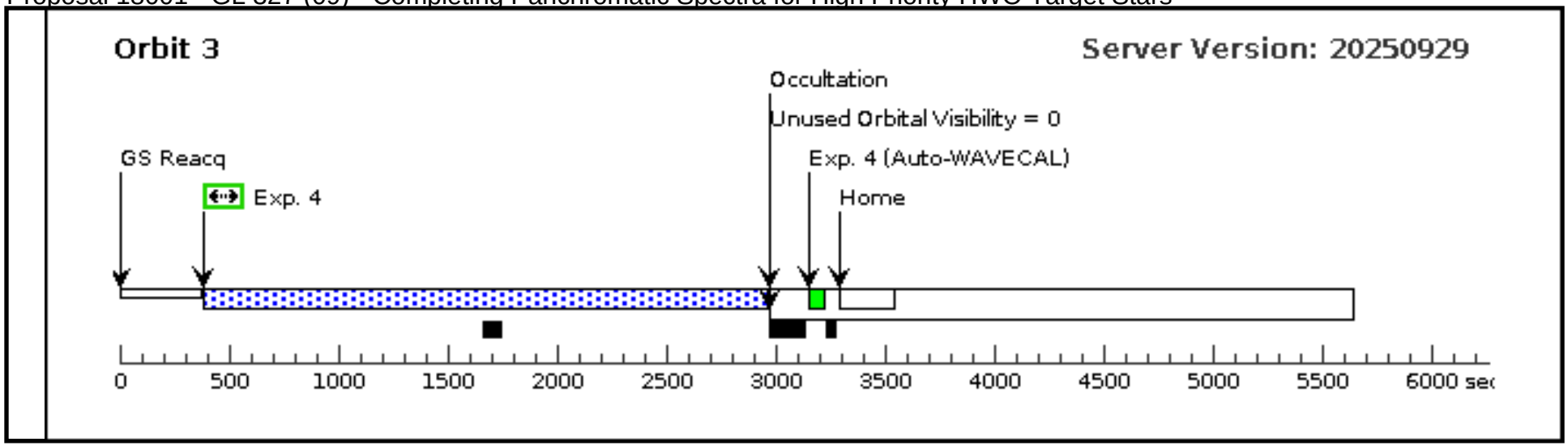
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.2024447)	(6) HD-76151	STIS/CCD, ACQ, F25ND5	MIRROR				3.6 Secs (3.6 Secs) *[==>]*	 ***[1]***
2	Spec-FUV (STIS.sp.2024854)	(6) HD-76151	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1018			2037 Secs (2037 Secs) *[==>]*	 ***[1]***
3	Spec-FUV (STIS.sp.2024854)	(6) HD-76151	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1283			2567 Secs (2567 Secs) *[==>]*	 ***[2]***
4	Spec-FUV (STIS.sp.2024854)	(6) HD-76151	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1283			2567 Secs (2567 Secs) *[==>]*	 ***[3]***

Orbit Structure






Orbit 3
Server Version: 20250929
Occultation
Unused Orbital Visibility = 0
GS Reacq
Exp. 4
Exp. 4 (Auto-WAVECAL)
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 18001, LHS 2156 (10), implementation Tue Mar 17 19:00:26 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	-11-LMI	RA: 09 35 39.5022 (143.9145925d) Dec: +35 48 36.48 (35.81013d) Equinox: J2000	Proper Motion RA: -726.514 mas/yr Proper Motion Dec: -259.05699990289577 mas/yr Parallax: 0.08900920000000001" Epoch of Position: 2000	V=5.34	Reference Frame: ICRS

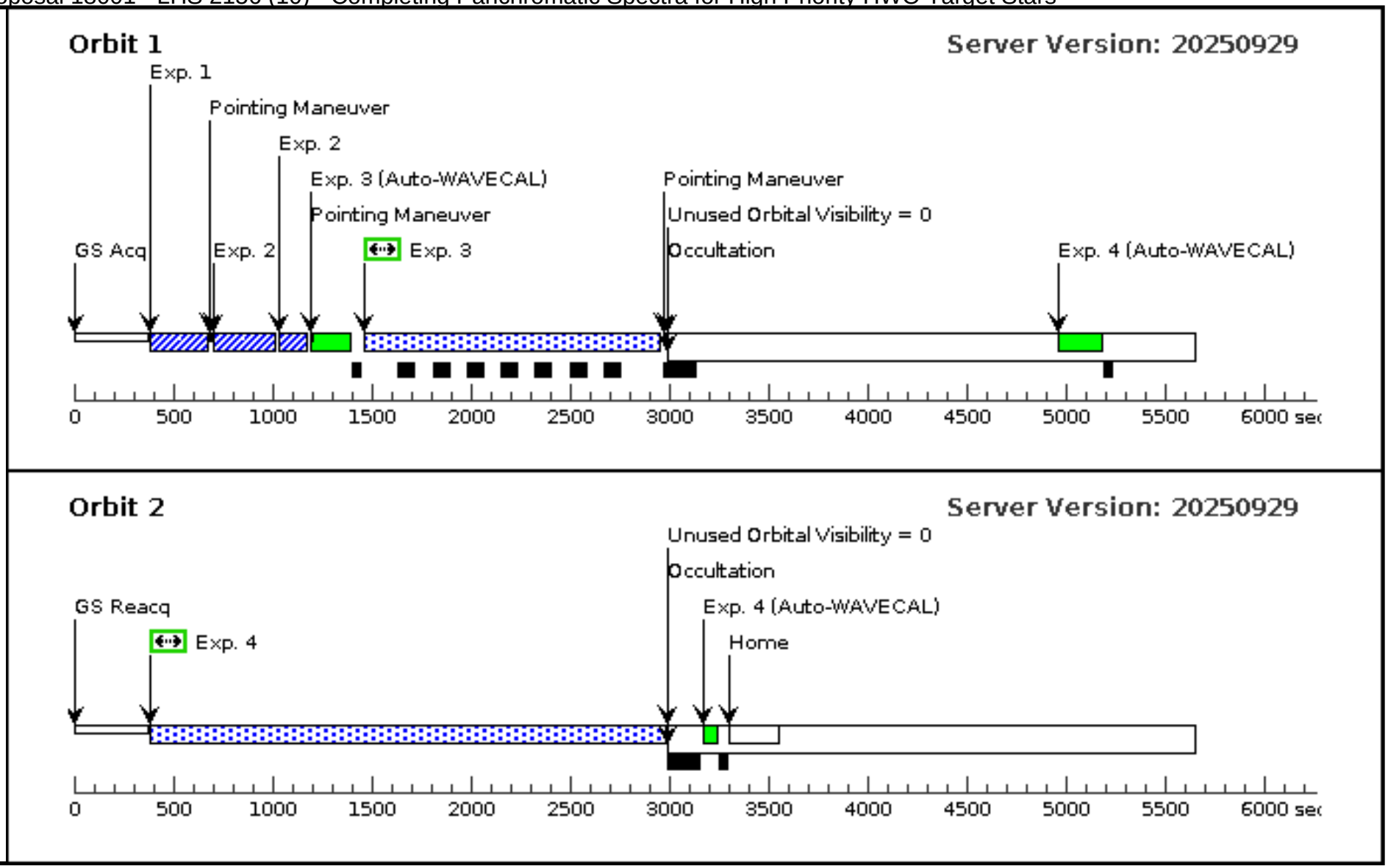
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

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=[G V-IV]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.2024451)	(7) -11-LMI	STIS/CCD, ACQ, F25ND5	MIRROR				1.8 Secs (1.8 Secs) *[==>]*	 ***[1]***
2	ACQ/PEAK (STIS.ta.2024525)	(7) -11-LMI	STIS/CCD, ACQ/PEAK, 0.3X0.05ND	MIRROR				1 Secs (1 Secs) *[==>]*	 ***[1]***
3	Spec-NUV (STIS.sp.2024860)	(7) -11-LMI	STIS/NUV-MAMA, TIME-TAG, 0.2X0.09	E230H 2713 A	BUFFER-TIME=1712			1476 Secs (1476 Secs) *[==>]*	 ***[1]***
4	Spec-FUV (STIS.sp.2024879)	(7) -11-LMI	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1291			2582 Secs (2582 Secs) *[==>]*	 ***[2]***

Orbit Structure



Visit

Proposal 18001, LHS 2156 (11), implementation Tue Mar 17 19:00:26 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	-11-LMI	RA: 09 35 39.5022 (143.9145925d) Dec: +35 48 36.48 (35.81013d) Equinox: J2000	Proper Motion RA: -726.514 mas/yr Proper Motion Dec: -259.05699990289577 mas/yr Parallax: 0.08900920000000001" Epoch of Position: 2000	V=5.34	Reference Frame: ICRS

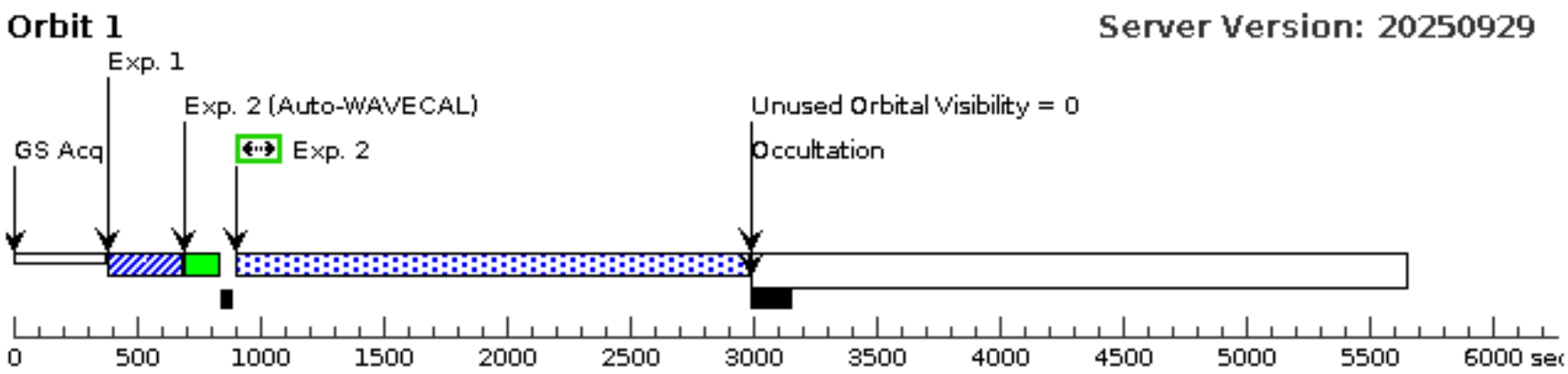
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

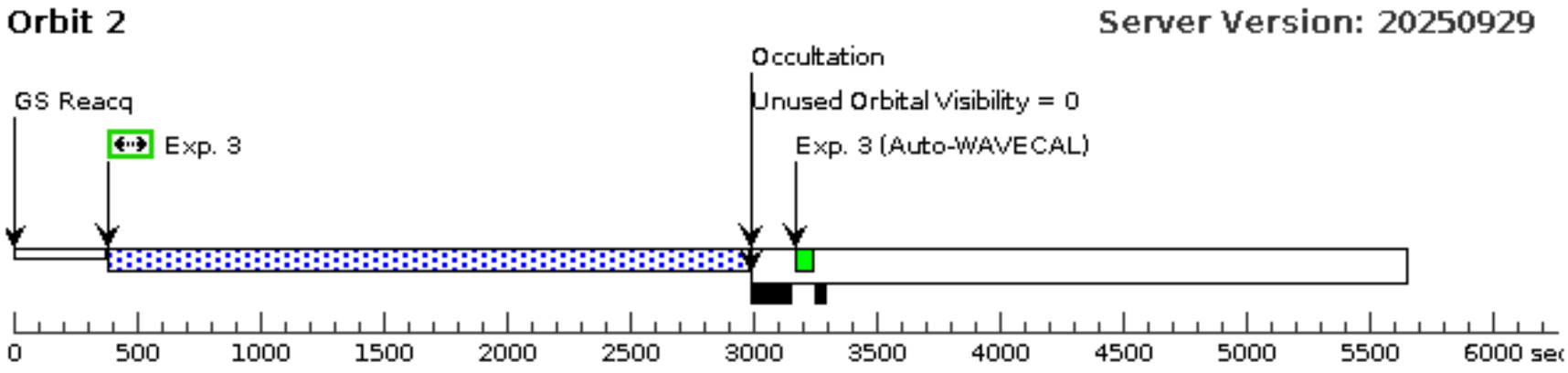
SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=STAR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

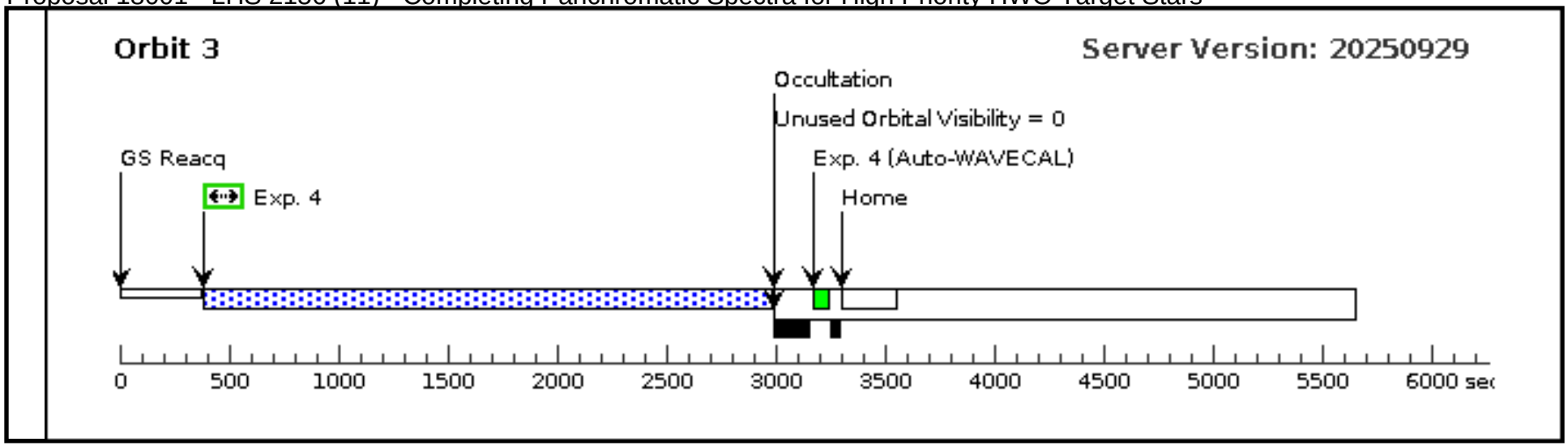
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.2024451)	(7) -11-LMI	STIS/CCD, ACQ, F25ND5	MIRROR				1.8 Secs (1.8 Secs) *[==>]*	 ***[1]***
2	Spec-FUV (STIS.sp.2024879)	(7) -11-LMI	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1030			2060 Secs (2060 Secs) *[==>]*	 ***[1]***
3	Spec-FUV (STIS.sp.2024879)	(7) -11-LMI	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1291			2582 Secs (2582 Secs) *[==>]*	 ***[2]***
4	Spec-FUV (STIS.sp.2024879)	(7) -11-LMI	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1291			2582 Secs (2582 Secs) *[==>]*	 ***[3]***

Orbit Structure






Orbit 3
Server Version: 20250929
Occultation
Unused Orbital Visibility = 0
GS Reacq
Exp. 4 (Auto-WAVECAL)
Exp. 4
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 18001, GL 117 (12), implementation Tue Mar 17 19:00:26 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	HD-17925	RA: 02 52 32.1282 (43.1338675d) Dec: -12 46 10.97 (-12.76971d) Equinox: J2000	Proper Motion RA: 397.353 mas/yr Proper Motion Dec: -189.28099996173842 mas/yr Parallax: 0.09652" Epoch of Position: 2000	V=6.05	Reference Frame: ICRS

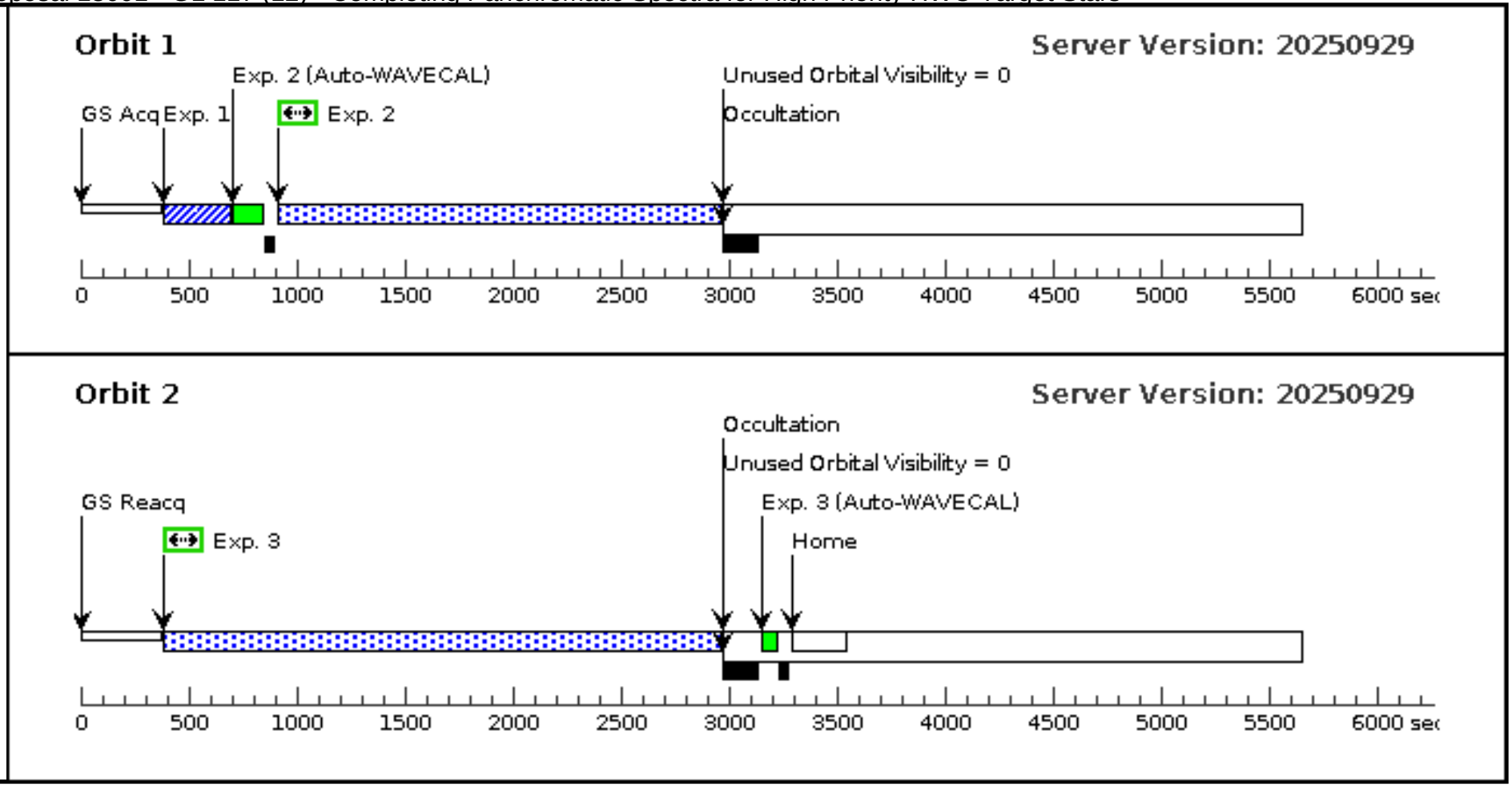
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

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=[K V-IV]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.2024452)	(8) HD-17925	STIS/CCD, ACQ, F25ND5	MIRROR				3.5 Secs (3.5 Secs) *[==>]*	 ***[1]***
2	Spec-FUV (STIS.sp.2024894)	(8) HD-17925	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1017			2034 Secs (2034 Secs) *[==>]*	 ***[1]***
3	Spec-FUV (STIS.sp.2024894)	(8) HD-17925	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1282			2564 Secs (2564 Secs) *[==>]*	 ***[2]***

Orbit Structure



Visit

Proposal 18001, GL 117 (13), implementation Tue Mar 17 19:00:26 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	HD-17925	RA: 02 52 32.1282 (43.1338675d) Dec: -12 46 10.97 (-12.76971d) Equinox: J2000	Proper Motion RA: 397.353 mas/yr Proper Motion Dec: -189.28099996173842 mas/yr Parallax: 0.09652" Epoch of Position: 2000	V=6.05	Reference Frame: ICRS

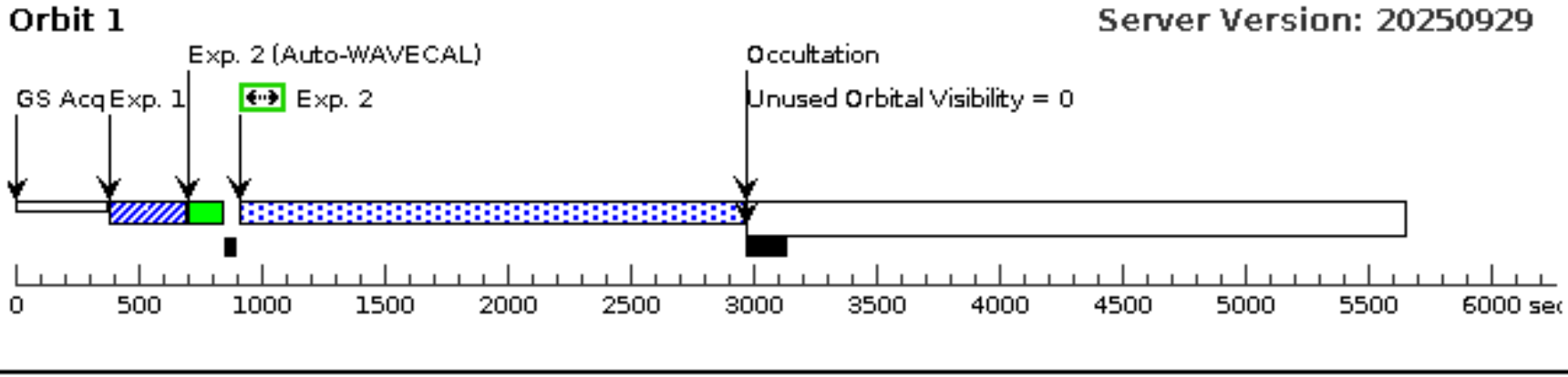
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

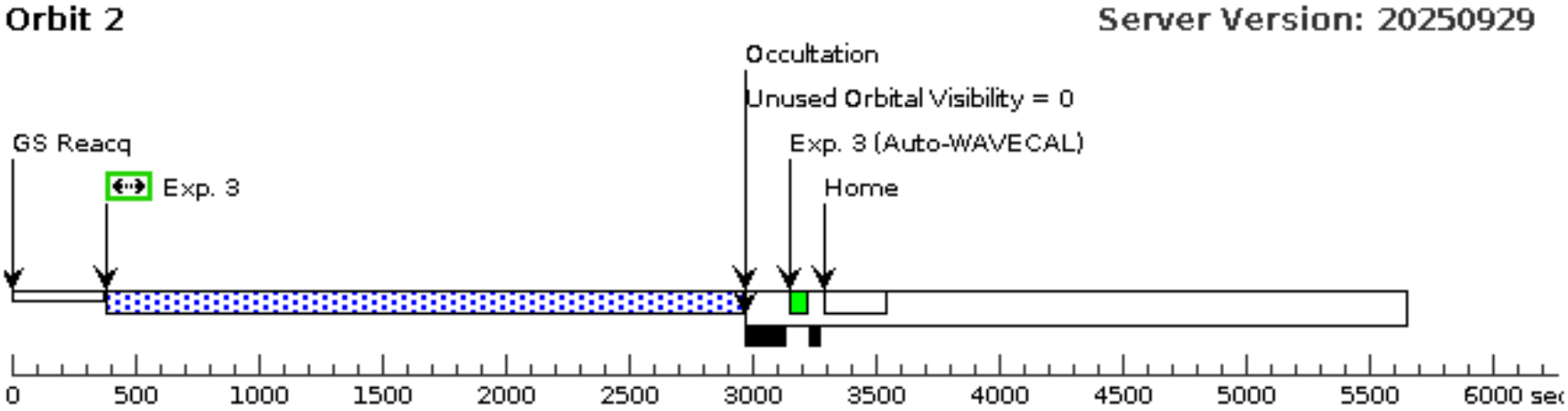
SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=STAR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

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.2024452)	(8) HD-17925	STIS/CCD, ACQ, F25ND5	MIRROR				3.5 Secs (3.5 Secs) *[==>]*	 ***[1]***
2	Spec-FUV (STIS.sp.2024894)	(8) HD-17925	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1017			2034 Secs (2034 Secs) *[==>]*	 ***[1]***
3	Spec-FUV (STIS.sp.2024894)	(8) HD-17925	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1282			2564 Secs (2564 Secs) *[==>]*	 ***[2]***

Orbit Structure





Visit

Proposal 18001, LHS 1875 (14), implementation Tue Mar 17 19:00:26 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	HD-50281	RA: 06 52 18.0505 (103.0752104d) Dec: -05 10 25.37 (-5.17371d) Equinox: J2000	Proper Motion RA: -543.69 mas/yr Proper Motion Dec: -3.515000003062596 mas/yr Parallax: 0.11435469999999999" Epoch of Position: 2000	V=6.59	Reference Frame: ICRS

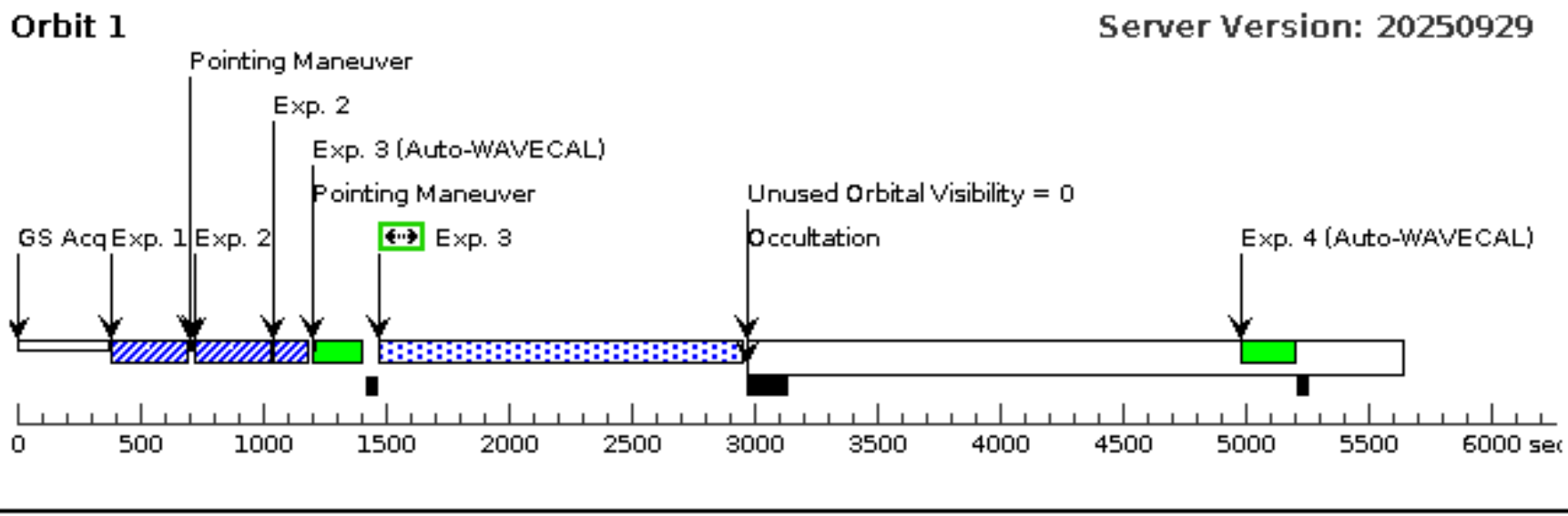
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

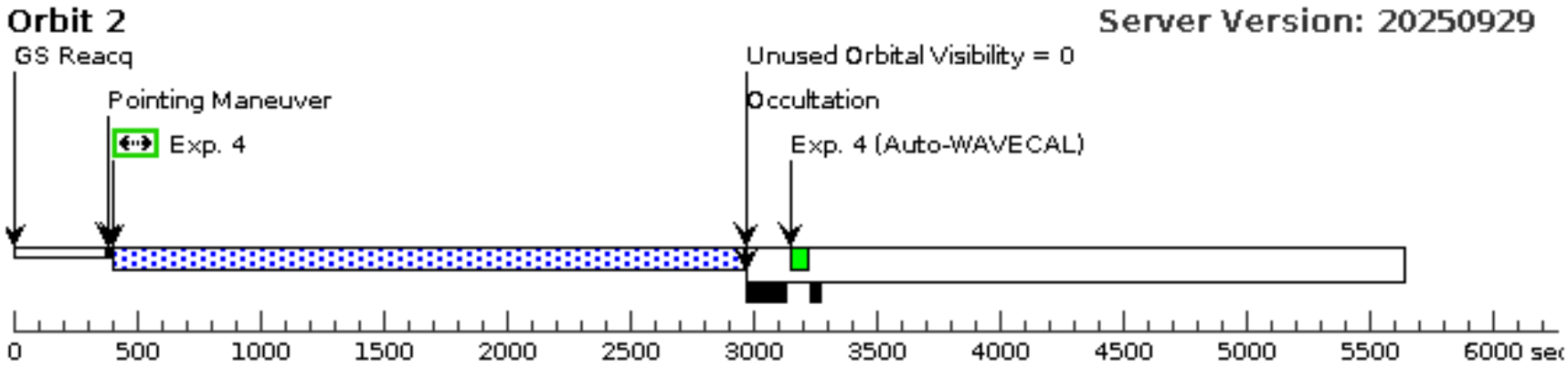
SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=STAR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

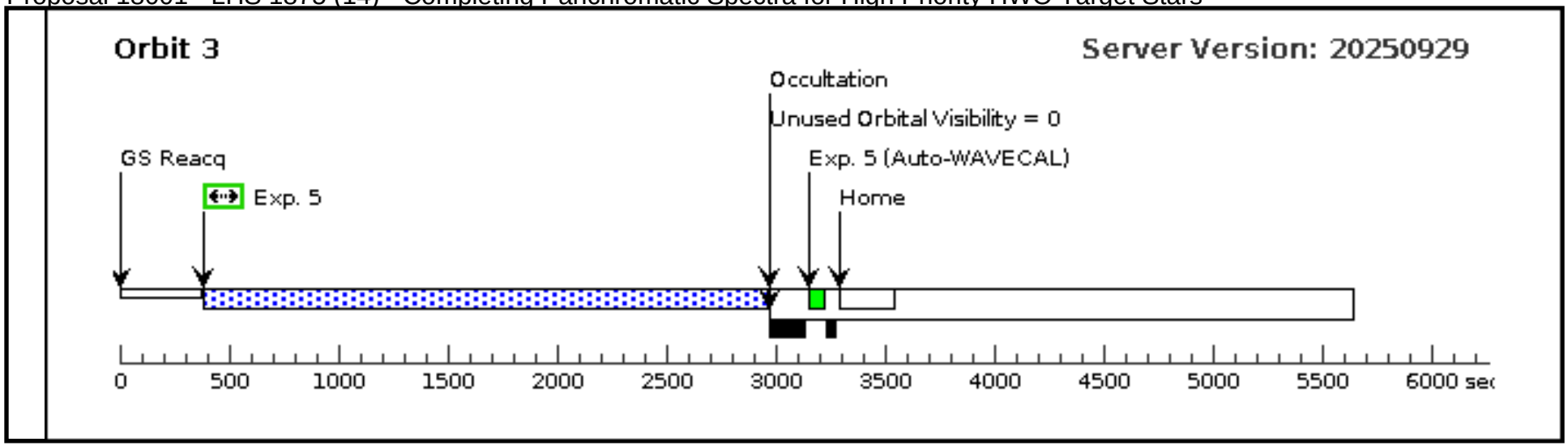
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.2024453)	(9) HD-50281	STIS/CCD, ACQ, F25ND5	MIRROR				4.7 Secs (4.7 Secs) *[==>]*	***[1]***
2	ACQ/PEAK (STIS.ta.2024528)	(9) HD-50281	STIS/CCD, ACQ/PEAK, 0.3X0.05ND	MIRROR				1 Secs (1 Secs) *[==>]*	***[1]***
3	Spec-NUV (STIS.sp.2024921)	(9) HD-50281	STIS/NUV-MAMA, TIME-TAG, 0.2X0.09	E230H 2713 A	BUFFER-TIME=1057			1469 Secs (1469 Secs) *[==>]*	***[1]***
4	Spec-FUV (STIS.sp.2024931)	(9) HD-50281	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1274			2547 Secs (2547 Secs) *[==>]*	***[2]***
5	Spec-FUV (STIS.sp.2024931)	(9) HD-50281	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1284			2567 Secs (2567 Secs) *[==>]*	***[3]***

Orbit Structure






Orbit 3
Server Version: 20250929
Occultation
Unused Orbital Visibility = 0
GS Reacq
Exp. 5 (Auto-WAVECAL)
Exp. 5
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 18001, LHS 1875 (15), implementation Tue Mar 17 19:00:26 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	HD-50281	RA: 06 52 18.0505 (103.0752104d) Dec: -05 10 25.37 (-5.17371d) Equinox: J2000	Proper Motion RA: -543.69 mas/yr Proper Motion Dec: -3.515000003062596 mas/yr Parallax: 0.11435469999999999" Epoch of Position: 2000	V=6.59	Reference Frame: ICRS

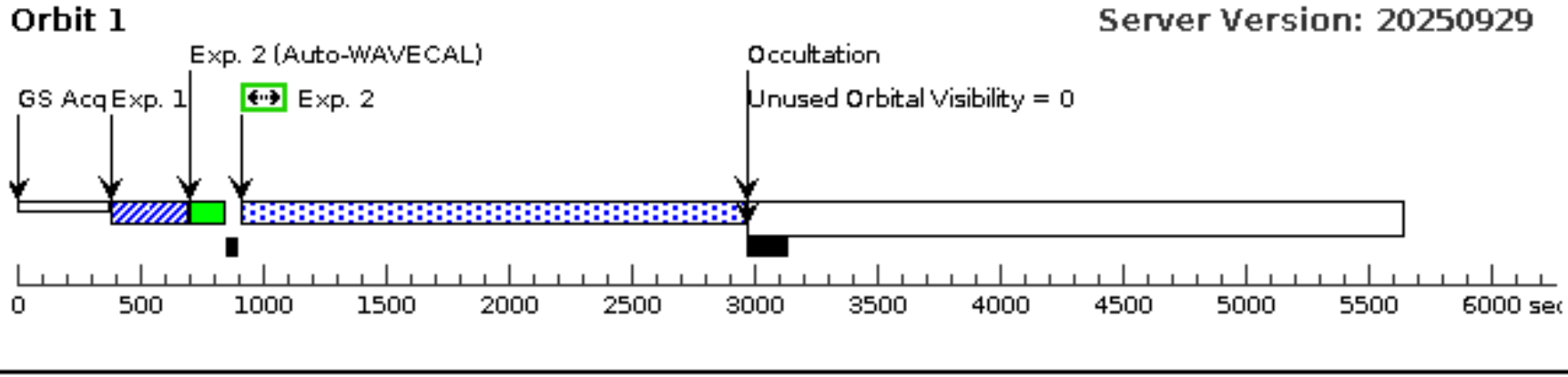
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

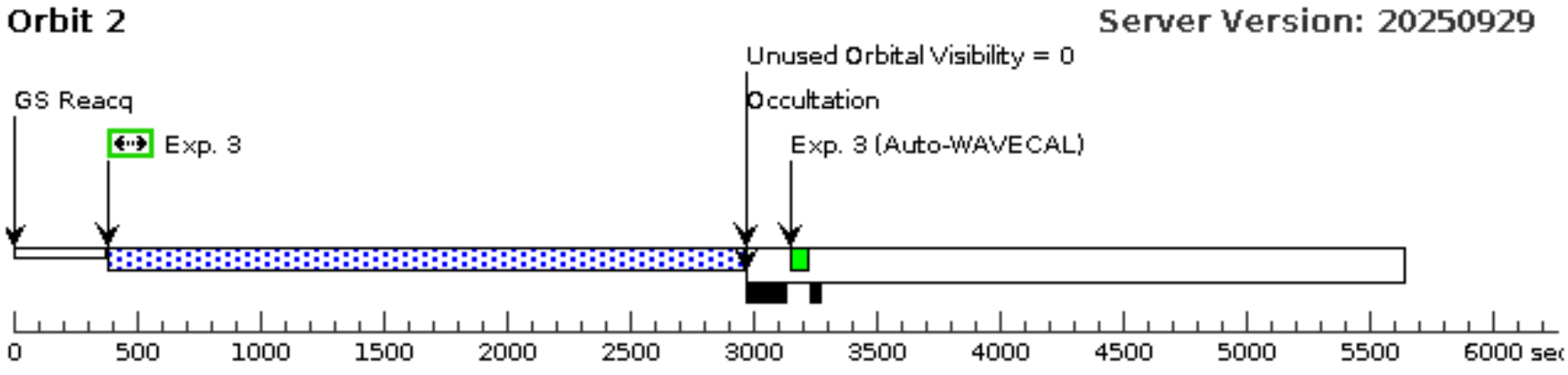
SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=STAR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

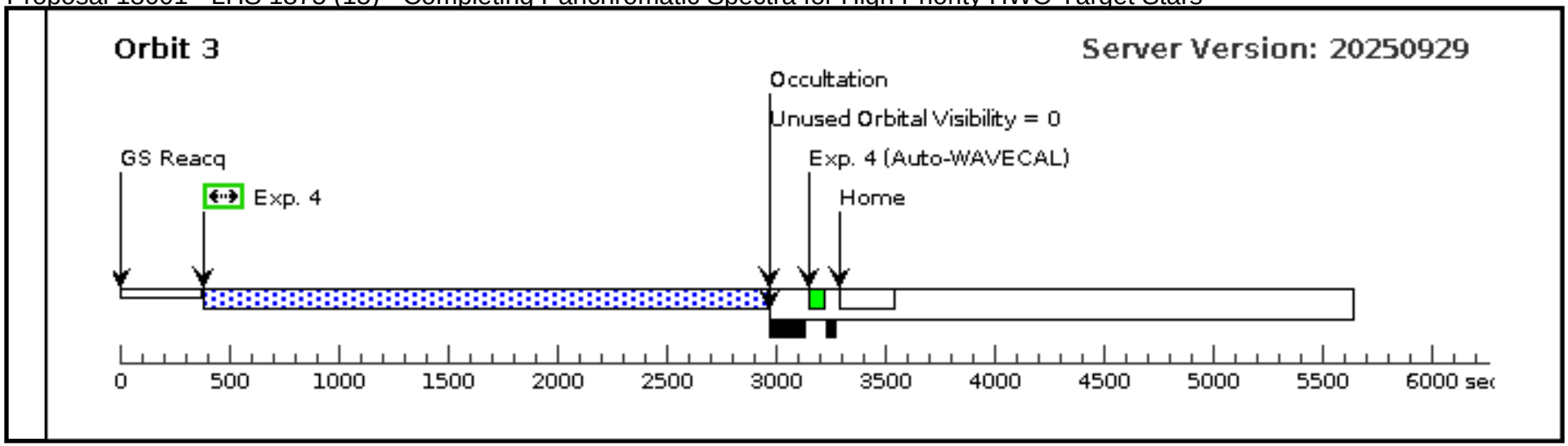
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.2024453)	(9) HD-50281	STIS/CCD, ACQ, F25ND5	MIRROR				4.7 Secs (4.7 Secs) *[==>]*	***[1]***
2	Spec-FUV (STIS.sp.2024931)	(9) HD-50281	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1017			2033 Secs (2033 Secs) *[==>]*	***[1]***
3	Spec-FUV (STIS.sp.2024931)	(9) HD-50281	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1284			2567 Secs (2567 Secs) *[==>]*	***[2]***
4	Spec-FUV (STIS.sp.2024931)	(9) HD-50281	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=1284			2567 Secs (2567 Secs) *[==>]*	***[3]***

Orbit Structure






Orbit 3
Server Version: 20250929
Occultation
Unused Orbital Visibility = 0
GS Reacq
Exp. 4 (Auto-WAVECAL)
Exp. 4
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 18001, GJ 570 A (16), scheduling Tue Mar 17 19:00:26 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(10)	HD-131977	RA: 14 57 28.0008 (224.3666700d) Dec: -21 24 55.73 (-21.41548d) Equinox: J2000	Proper Motion RA: 1031.472 mas/yr Proper Motion Dec: -1723.6189999493945 mas/yr Parallax: 0.1698843" Epoch of Position: 2000	V=5.72	Reference Frame: ICRS

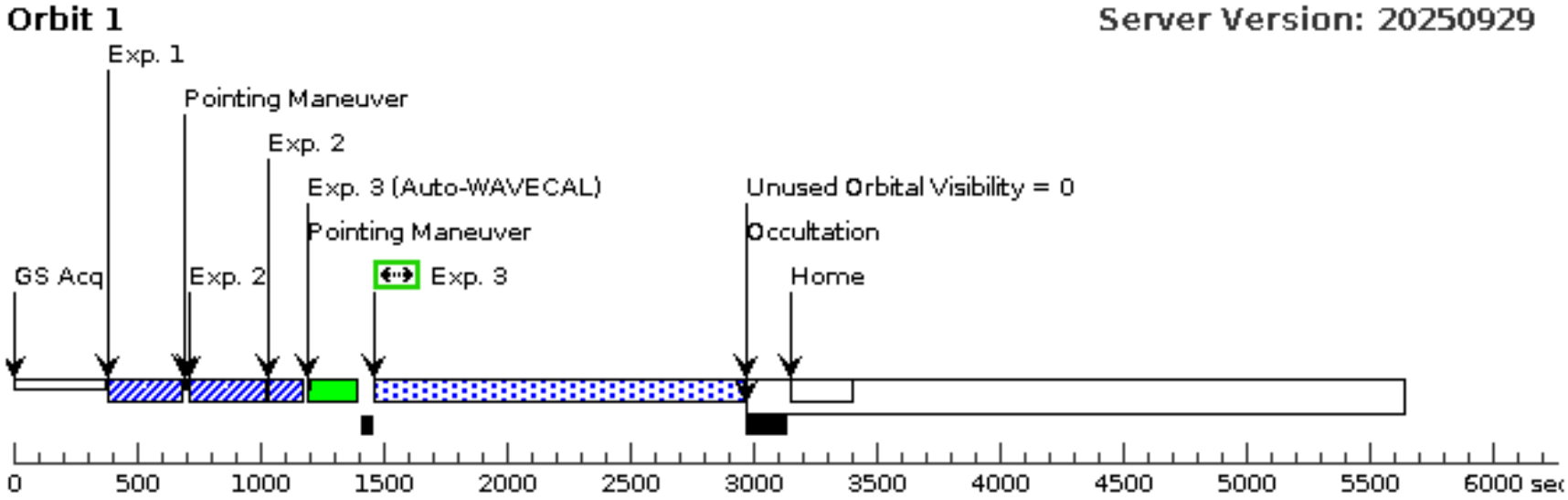
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

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=[K V-IV]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.2024454)	(10) HD-131977	STIS/CCD, ACQ, F25ND5	MIRROR				2.1 Secs (2.1 Secs) *[==>]*	*[1]*
2	ACQ/PEAK (STIS.ta.2024529)	(10) HD-131977	STIS/CCD, ACQ/PEAK, 0.3X0.05ND	MIRROR				1 Secs (1 Secs) *[==>]*	*[1]*
3	Spec-NUV (STIS.sp.2024939)	(10) HD-131977	STIS/NUV-MAMA, TIME-TAG, 0.2X0.09	E230H 2713 A	BUFFER-TIME=741			1481 Secs (1481 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 18001, GJ 570 A (17), scheduling Tue Mar 17 19:00:26 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(10)	HD-131977	RA: 14 57 28.0008 (224.3666700d) Dec: -21 24 55.73 (-21.41548d) Equinox: J2000	Proper Motion RA: 1031.472 mas/yr Proper Motion Dec: -1723.6189999493945 mas/yr Parallax: 0.1698843" Epoch of Position: 2000	V=5.72	Reference Frame: ICRS

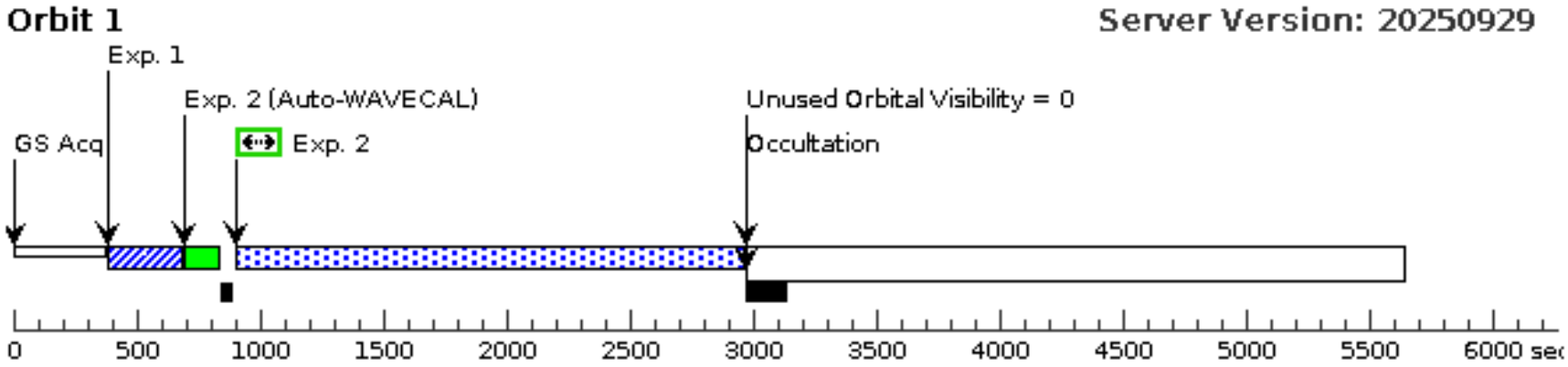
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

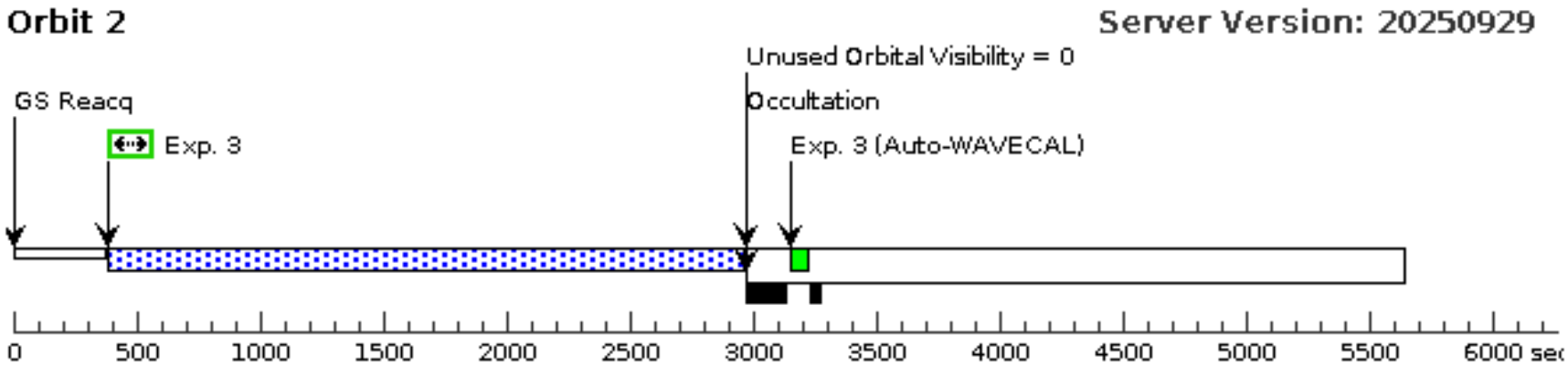
SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=STAR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

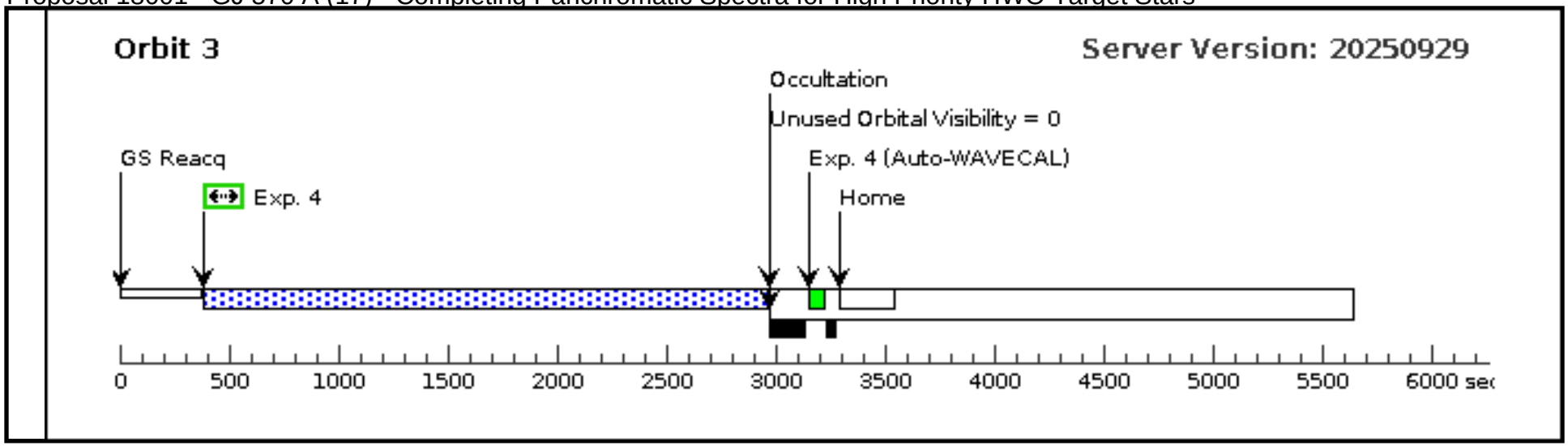
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.2024454)	(10) HD-131977	STIS/CCD, ACQ, F25ND5	MIRROR				2.1 Secs (2.1 Secs) *[==>]*	 ***[1]***
2	Spec-FUV (STIS.sp.2024941)	(10) HD-131977	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=8620			2045 Secs (2045 Secs) *[==>]*	 ***[1]***
3	Spec-FUV (STIS.sp.2024941)	(10) HD-131977	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=8620			2569 Secs (2569 Secs) *[==>]*	 ***[2]***
4	Spec-FUV (STIS.sp.2024941)	(10) HD-131977	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=8620			2569 Secs (2569 Secs) *[==>]*	 ***[3]***

Orbit Structure






Orbit 3
Server Version: 20250929
Occultation
Unused Orbital Visibility = 0
GS Reacq
Exp. 4
Exp. 4 (Auto-WAVECAL)
Home
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1500
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