



17453 - Activity at the Edge

Cycle: 31, Proposal Category: GO

(UV Initiative)

(Availability Mode: AVAILABLE)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Thomas R. Ayres (PI) (Contact)	University of Colorado at Boulder

VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) HD-23975	COS/FUV COS/NUV	1	11-Jun-2024 15:02:48.0	yes
02	(2) HD-23352	COS/FUV COS/NUV	1	11-Jun-2024 15:02:49.0	yes
03	(3) HIP-16753	COS/FUV COS/NUV	1	11-Jun-2024 15:02:50.0	yes
04	(4) HD-23269	COS/FUV COS/NUV	1	11-Jun-2024 15:02:51.0	yes
05	(5) HD-282973	COS/FUV COS/NUV	1	11-Jun-2024 15:02:51.0	yes
55	(5) HD-282973	COS/FUV COS/NUV	1	11-Jun-2024 15:02:52.0	yes
06	(6) BD+21D504	COS/FUV COS/NUV	1	11-Jun-2024 15:02:53.0	yes

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07	(7) HD-282971	COS/FUV COS/NUV	1	11-Jun-2024 15:02:53.0	yes
08	(8) BD+23D551	COS/FUV COS/NUV	1	11-Jun-2024 15:02:54.0	yes
09	(9) BD+22D521	COS/FUV COS/NUV	1	11-Jun-2024 15:02:54.0	yes
10	(10) BD+21D516	COS/FUV COS/NUV	1	11-Jun-2024 15:02:55.0	yes
11	(11) BD+22D574	COS/FUV COS/NUV	1	11-Jun-2024 15:02:56.0	yes
12	(12) HD-283067	COS/FUV COS/NUV	1	11-Jun-2024 15:02:57.0	yes
13	(13) TYC-1800-2144-1	COS/FUV COS/NUV	1	11-Jun-2024 15:02:57.0	yes
14	(14) BD+22D548	COS/FUV COS/NUV	1	11-Jun-2024 15:02:58.0	yes
15	(15) HD-282972	COS/FUV COS/NUV	1	11-Jun-2024 15:02:59.0	yes
16	(16) BD+23D527	COS/FUV COS/NUV	1	11-Jun-2024 15:02:59.0	yes
17	(17) HD-282963	COS/FUV COS/NUV	1	11-Jun-2024 15:03:00.0	yes

18 Total Orbits Used

ABSTRACT

A central goal of cool-star astronomy is to link the high-energy FUV+X-ray ("XUV") luminosity -- which among other things can affect the local stellar environs, especially orbiting exoplanets -- to properties of the "dynamo" that controls the generation of magnetic flux deep inside spinning, convective stars. In the 1980s it was discovered that the ratio of the stellar rotation period to a convective turnover time could unify the behavior of

Ca II HK chromospheric fluxes broadly over the FGK spectral types. This "Rossby number" plays a fundamental role in terrestrial and stellar dynamo theories, so the unification was promising. A more recent attempt to achieve a similar synthesis at high energies, more closely connected to concentrated surface magnetic activity, met with some success for the early- to mid-G types, but theoretical convective turnover times showed a sharper drop in the early-F types than empirical estimates. That "edge" occurs where stellar convection zones are rapidly thinning toward the warmer spectral types, a challenge to theory. Unfortunately, the existing sample of empirical turnover times has a conspicuous gap in the F types, so the intermediate behavior is unknown. This gap can be filled by new HST/COS FUV (and Chandra X-ray) observations of 17 carefully selected F5-G1 dwarfs in the nearby Pleiades cluster; which have accurate photometric rotation periods, common age and similar composition. Validation of the Rossby framework with this unique stellar cohort not only could strengthen the theory; but also ultimately allow "one-stop shopping" to estimate XUV luminosities of cool stars beyond the range of current high-energy space observatories.

OBSERVING DESCRIPTION

To test whether the Rossby formalism can successfully bridge the F/G break illustrated in the original proposal, one needs a collection of single dwarf stars that have similar fundamental properties, such as age and chemical composition; and differ mainly in surface temperature, which controls the convective properties and thus the turnover time. (The restriction to dwarfs aligns with the better developed state of solar dynamo theories.) The stars should have well determined rotation periods, ideally photometric (avoiding the orientation ambiguity of spectroscopic velocities); and be accessible in both the FUV and X-rays, to construct the crucial XUV metric. Such homogenous stellar samples can be found in galactic clusters. The Pleiades, in particular, is close enough (136 pc) to have F and G dwarfs that can be captured by HST in the FUV and Chandra (or XMM-Newton) at X-ray energies. (The Hyades cluster would be another option, but there are too few suitable F to early-G candidates. The Hyades, nevertheless, is a better for the fainter, cool K dwarfs, the subject of a related joint Chandra/HST Rossby project.) Further, uniformly measured photometric rotational periods, from the ground and space, are available for many of the Pleiades dwarfs; while Gaia DR3 provides accurate distances, colors, broad-band visual magnitudes, and radial velocities (RV). Variances of the Gaia RVs over the numerous sky scans can reveal spectroscopic binaries. After careful consideration of potential candidates from a recent Pleiades survey catalog, 17 were found suitable. These late-type dwarfs have $PROT = 1.8-3.8$ d, and appear to be single by virtue of H-R diagram position and small Gaia RV dispersions.

As alluded previously, the principal stellar activity metric to compare to the Rossby number is the "XUV hybrid flux," intended to document the main radiative losses of the magnetically energized outer atmosphere; a proxy related to the delivery rate of concentrated magnetic flux into the stellar surface layers (ultimately connected to the dynamo itself). The FUV not only contributes specific bright emission lines -- from species like C III, Si III, N V, Si IV, and C IV -- but also provides surrogates for contributions by the important, but unseen, EUV features, such as He II 30 nm

Proposal 17453 (STScI Edit Number: 2, Created: Tuesday, June 11, 2024 at 2:03:00 PM Eastern Standard Time) - Overview

(scales with C IV 155 nm) and C III 97 nm (scales with C III 117 nm). Consequently, FUV spectra are a crucial piece of the combined XUV flux.

Cosmic Origins Spectrograph was specifically designed for FUV spectroscopy of faint objects. COS can achieve full-coverage FUV spectra of late-type stars (i.e., C III 117 nm to He II 164 nm) by combining two medium-resolution settings, G130M-1222 and G160M-1533 (low-resolution grating COS G140L misses important Si III 120 nm and N V 123+124 nm). The G130M-1222 detector gap excludes H I 121 nm Ly-alpha, so there are no safety concerns. This simple combination is optimum for the faint Pleiades dwarfs. The two COS CENWAVES can be accommodated in a single orbit per star. The NUV imaging target acquisition is appropriate for the Pleiades V-magnitude range. Time-Tag is the default exposure mode, and is helpful to identify any transient flare events (expected to be rare).

The NUV imaging target acquisition can be done with Mirror-A and the BOA for targets 1-12, with exposures of 13-24 s. The fainter, cooler targets 13-17 can be done with Mirror-B and the PSA, with an exposure of 2 s.

In one orbit, accounting for overheads, about 1 ks of exposure is available for each CENWAVE (2 ks total in the overlap between them).

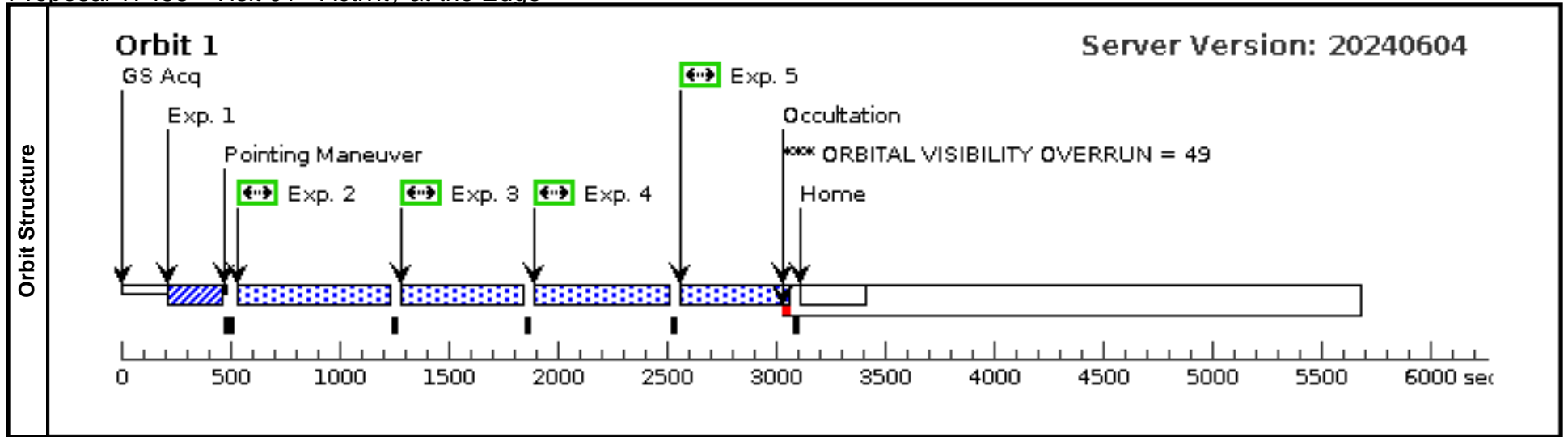
These targets are faint in the FUV, so it is advantageous to utilize only 2 of the 4 FP-POS splits for each setting. FP-POS 1+2 are used with M-1222 to capture Si III 120 nm; FP-POS 3+4 are used with M-1533 to fully capture the Fe II 134 nm + Fe XXI 135 nm region. Restricting the FP-POSs yields 25% more exposure time: the S/N will not be high enough to make best use of the fixed-pattern mitigation delivered by the full complement of FP-POS splits.

The M-1533 exposures can be done at Lifetime Position 4 (instead of LP6 with its high-overhead lamp-flash calibrations) because the duration of each visit is a single orbit.

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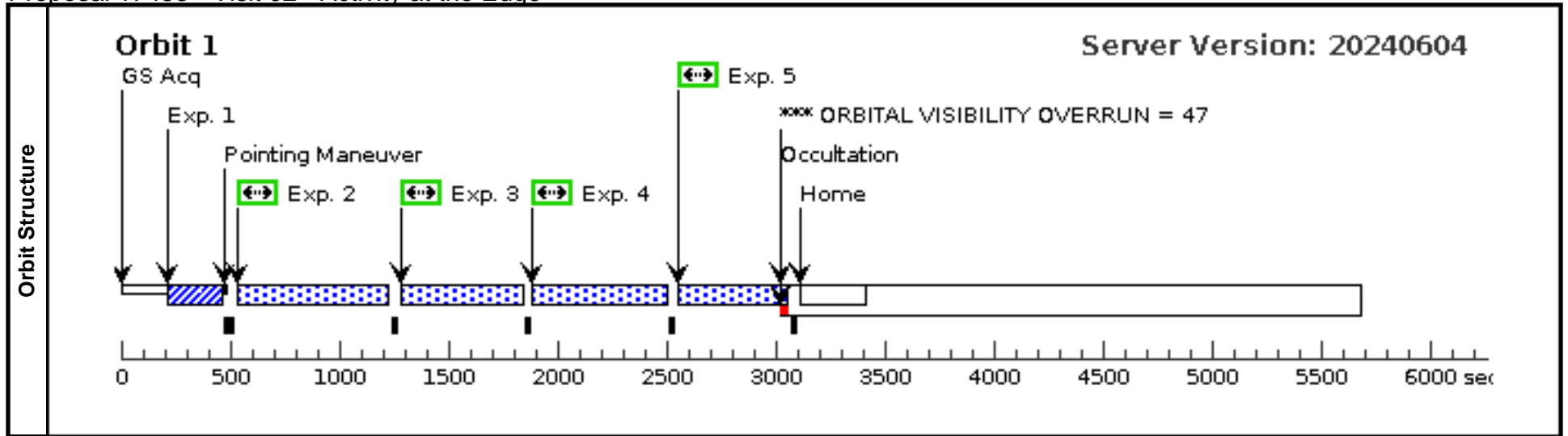
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Proposal 17453 - Visit 02 - Activity at the Edge

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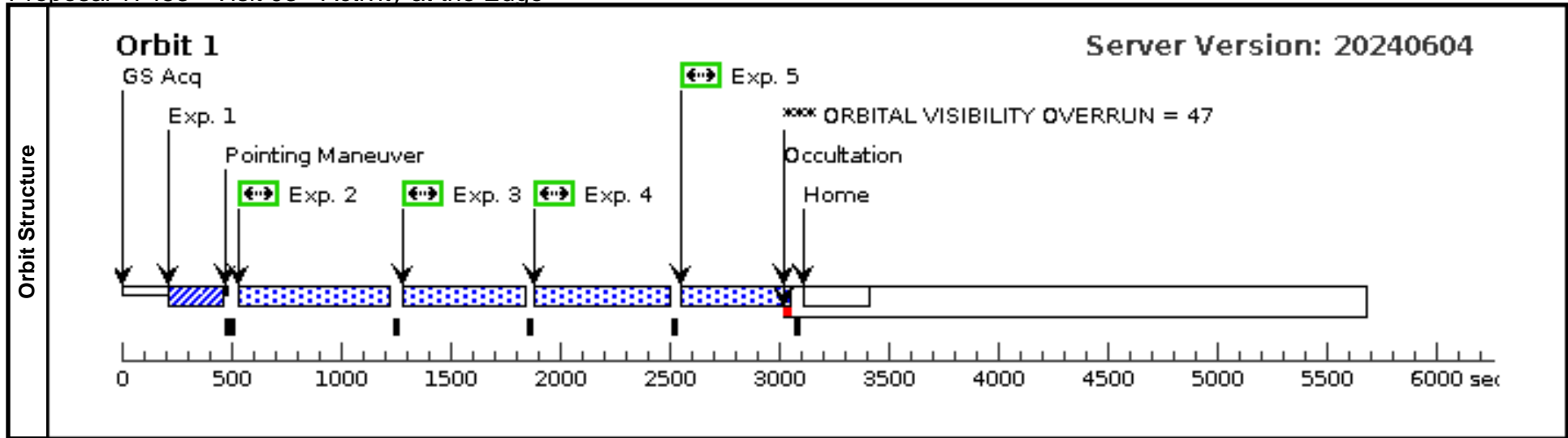
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Proposal 17453 - Visit 03 - Activity at the Edge

Tue Jun 11 19:03:01 GMT 2024

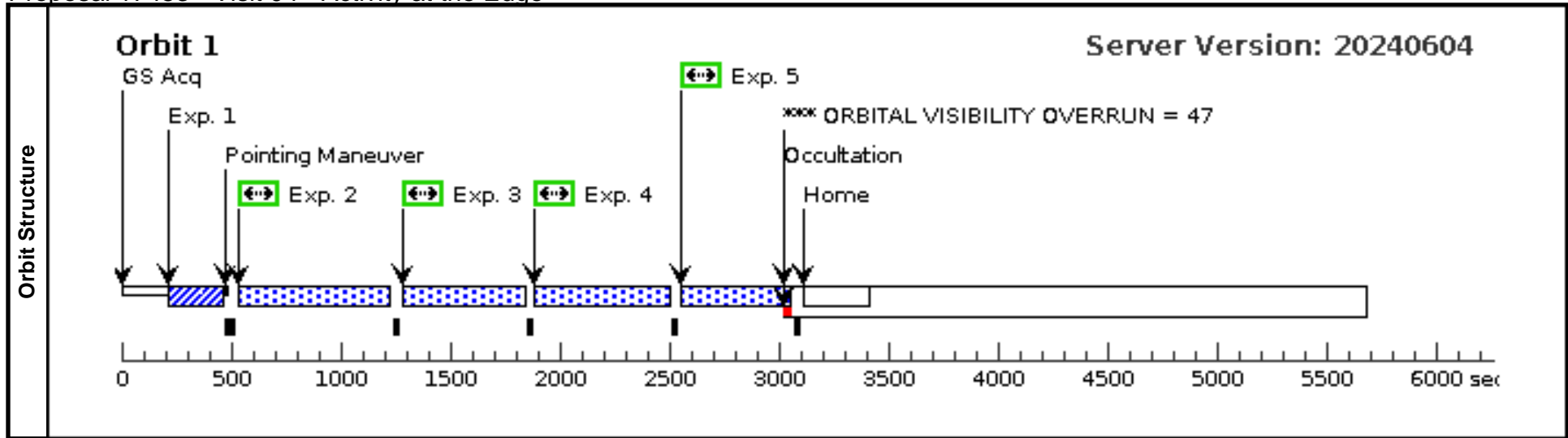
Visit	Proposal 17453, Visit 03, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																															
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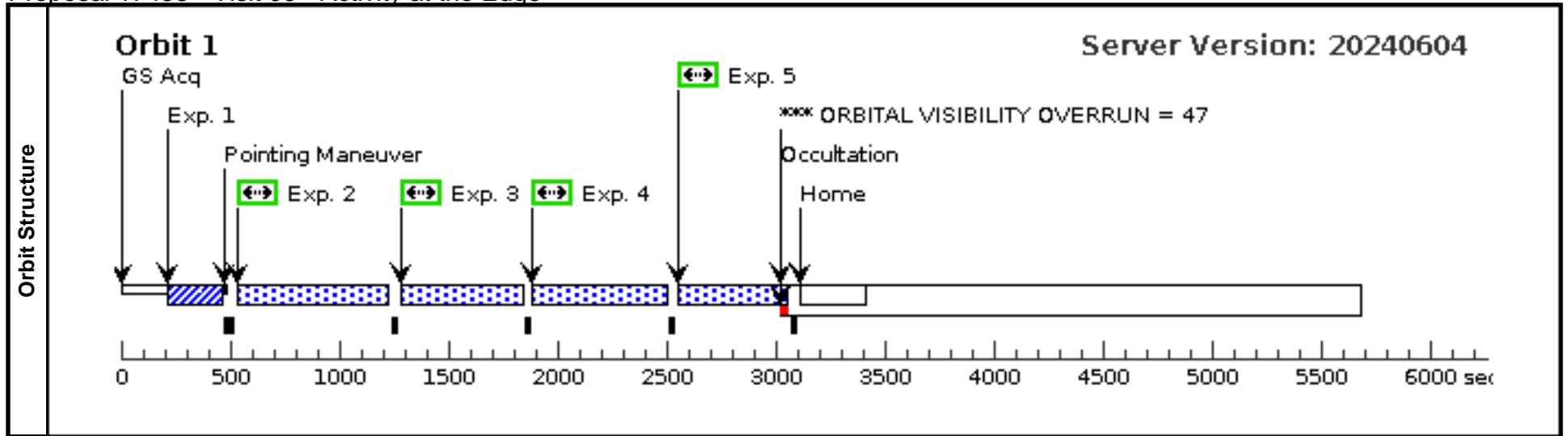
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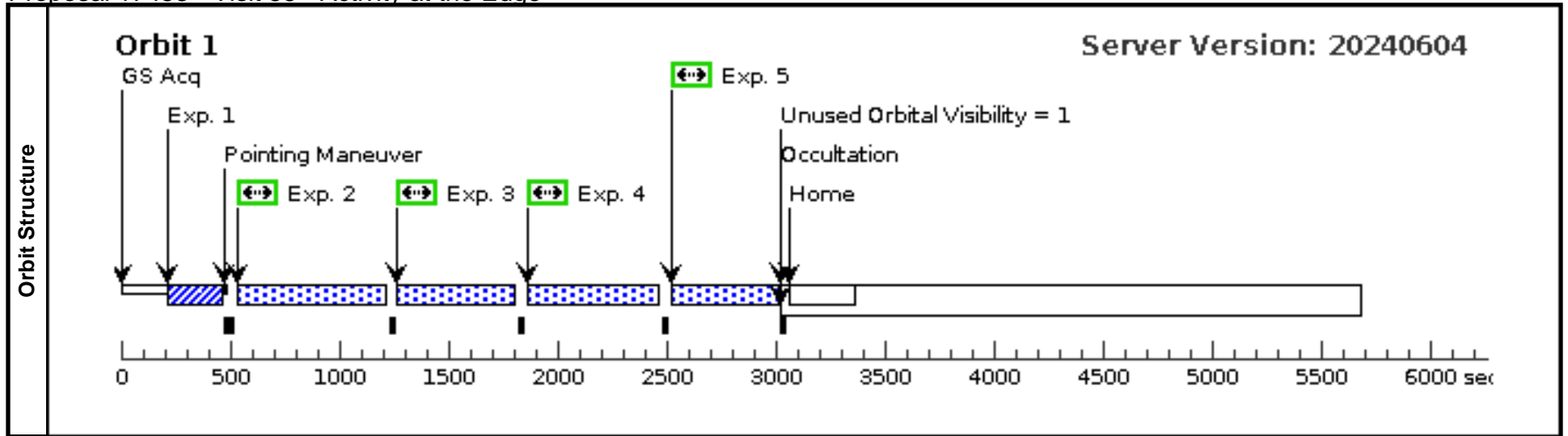
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<i>Comments: Castelli-Kurucz Models F5V 6500 4.0; Renormalized to vegamag = 10.0 in filter Johnson/V</i>																																																																																
2	(COS.sp.188 7727)	(5) HD-282973	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=10 000; FP-POS=1; LIFETIME-POS=L P4			503 Secs (503 Secs) [==>]	[1]																																																																							
3	(COS.sp.188 7727)	(5) HD-282973	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=10 000; FP-POS=2; LIFETIME-POS=L P4			503 Secs (503 Secs) [==>]	[1]																																																																							
4	(COS.sp.188 7728)	(5) HD-282973	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 000; FP-POS=3; LIFETIME-POS=L P4			451 Secs (451 Secs) [==>]	[1]																																																																							
5	(COS.sp.188 7728)	(5) HD-282973	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 000; FP-POS=4; LIFETIME-POS=L P4			451 Secs (451 Secs) [==>]	[1]																																																																							



Proposal 17453 - Visit 55 - Activity at the Edge

Tue Jun 11 19:03:01 GMT 2024

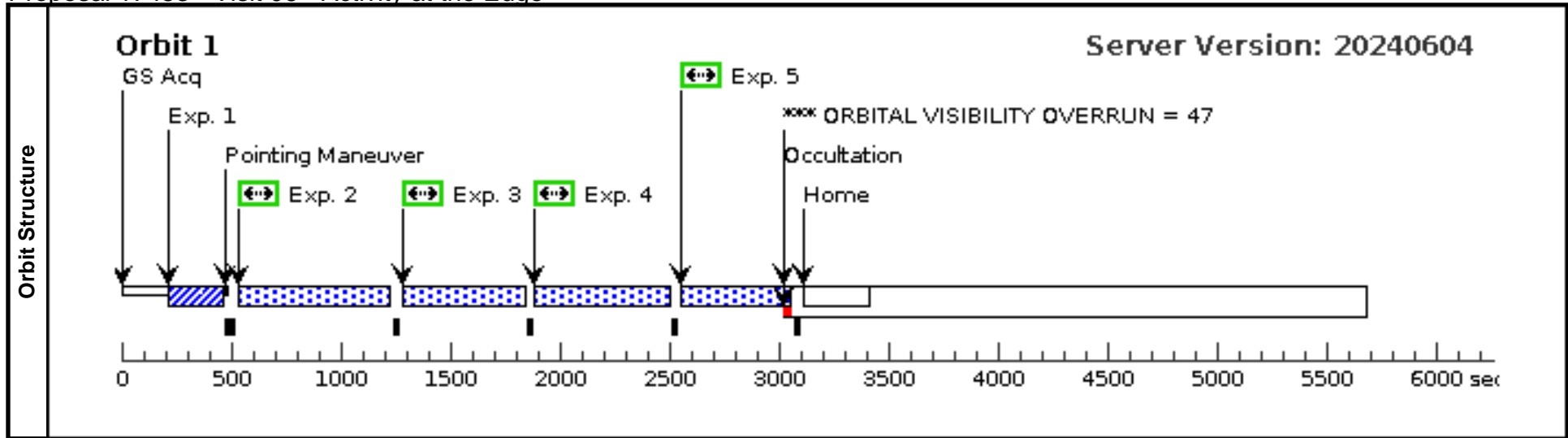
Visit	Proposal 17453, Visit 55, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: HOPR Repeat of visit 05</i>																																																																															
	Diagnosics (Visit 55) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave.																																																																															
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(5)</td> <td>HD-282973</td> <td>RA: 03 47 52.5260 (56.9688583d) Dec: +23 56 28.43 (23.94123d) Equinox: J2000</td> <td>Proper Motion RA: +0.019685 arcsec/yr Proper Motion Dec: -0.046394 arcsec/yr Parallax: 0.0073763" Epoch of Position: 2000 Radial Velocity: +5.6 km/sec</td> <td>V=9.9+/-0.2 F6V (from Teff=6325), (BP-RP)=0.708, G=9.76, RV=5.6+/-0.3 kps, Prot=2.8 d, fX=0.8e-13</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(5)	HD-282973	RA: 03 47 52.5260 (56.9688583d) Dec: +23 56 28.43 (23.94123d) Equinox: J2000	Proper Motion RA: +0.019685 arcsec/yr Proper Motion Dec: -0.046394 arcsec/yr Parallax: 0.0073763" Epoch of Position: 2000 Radial Velocity: +5.6 km/sec	V=9.9+/-0.2 F6V (from Teff=6325), (BP-RP)=0.708, G=9.76, RV=5.6+/-0.3 kps, Prot=2.8 d, fX=0.8e-13	Reference Frame: ICRS																																																										
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<i>Comments: Category=STAR Description=[F3-F9] Extended=NO</i>																																																																																
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	3	(COS.sp.188 7727)	(5) HD-282973	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=10 000; FP-POS=2; LIFETIME-POS=L P4			491 Secs (491 Secs) [==>]	[1]																																																																						
4	(COS.sp.188 7728)	(5) HD-282973	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 000; FP-POS=3; LIFETIME-POS=L P4			439 Secs (439 Secs) [==>]	[1]																																																																							
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Proposal 17453 - Visit 06 - Activity at the Edge

Tue Jun 11 19:03:01 GMT 2024

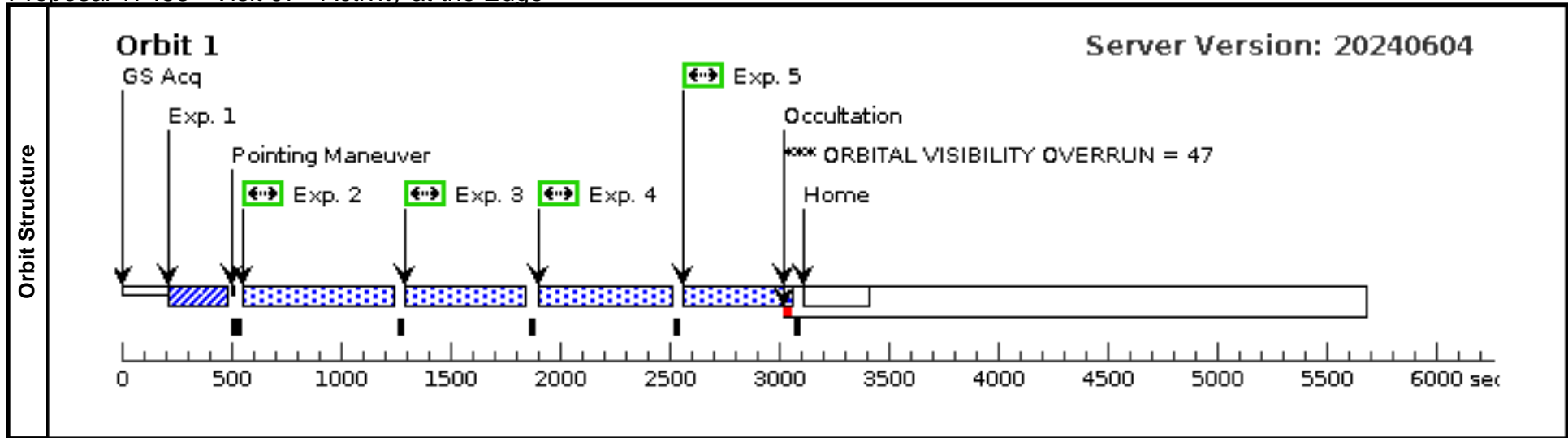
Visit	Proposal 17453, Visit 06, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(Visit 06) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. (Visit 06) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Diagnosics											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(6)	BD+21D504	RA: 03 42 23.9948 (55.5999783d) Dec: +21 28 24.57 (21.47349d) Equinox: J2000	Proper Motion RA: +0.021141 arcsec/yr Proper Motion Dec: -0.047936 arcsec/yr Parallax: 0.0078444" Epoch of Position: 2000 Radial Velocity: +7.0 km/sec	V=9.8+/-0.2 F6V (from Teff=6310), (BP-RP)=0.711, G=9.71, RV=7.0+/-0.5 kps, Prot=2.4 d	Reference Frame: ICRS					
Comments: Category=STAR Description=[F3-F9] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	(COS.ta.188 7733)	(6) BD+21D504	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				13.0 Secs (13 Secs) [==>]	[1]	
	Comments: Castelli-Kurucz Models F5V 6500 4.0; Renormalized to vegamag = 10.0 in filter Johnson/V										
	2	(COS.sp.188 7727)	(6) BD+21D504	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=10 000; FP-POS=1; LIFETIME-POS=L P4				503 Secs (503 Secs) [==>]	[1]
	3	(COS.sp.188 7727)	(6) BD+21D504	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=10 000; FP-POS=2; LIFETIME-POS=L P4				503 Secs (503 Secs) [==>]	[1]
	4	(COS.sp.188 7728)	(6) BD+21D504	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 000; FP-POS=3; LIFETIME-POS=L P4				451 Secs (451 Secs) [==>]	[1]
5	(COS.sp.188 7728)	(6) BD+21D504	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 000; FP-POS=4; LIFETIME-POS=L P4				451 Secs (451 Secs) [==>]	[1]	



Proposal 17453 - Visit 07 - Activity at the Edge

Tue Jun 11 19:03:01 GMT 2024

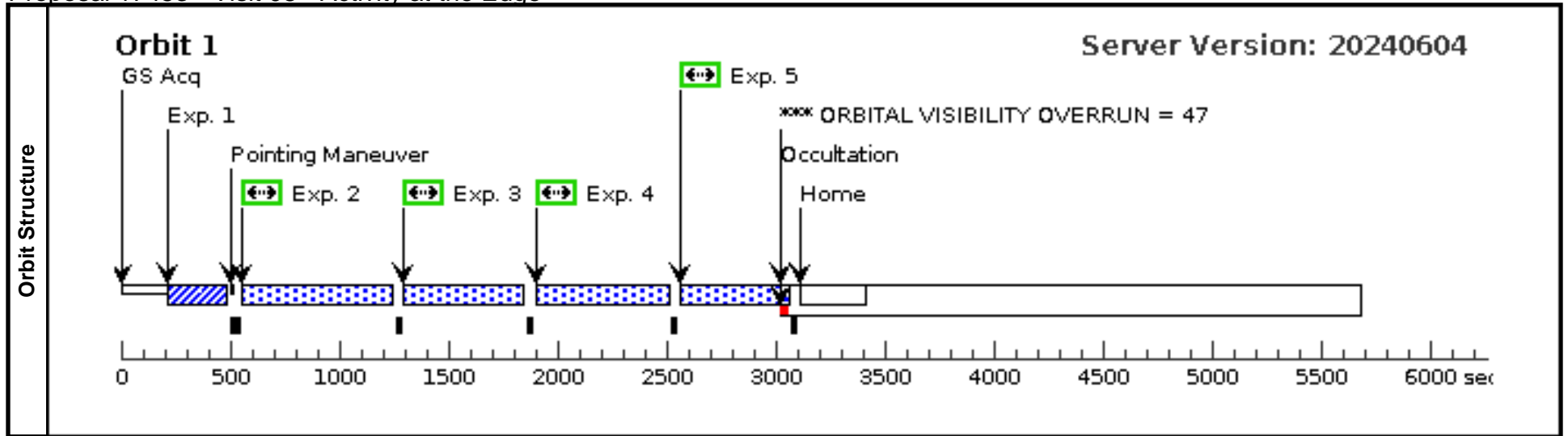
Visit	Proposal 17453, Visit 07, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																															
Diagnostics	(Visit 07) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. (Visit 07) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																															
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#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																																							
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4	(COS.sp.188 7728)	(7) HD-282971	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 000; FP-POS=3; LIFETIME-POS=L P4			443 Secs (443 Secs) [==>]	[1]																																																																							
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Proposal 17453 - Visit 08 - Activity at the Edge

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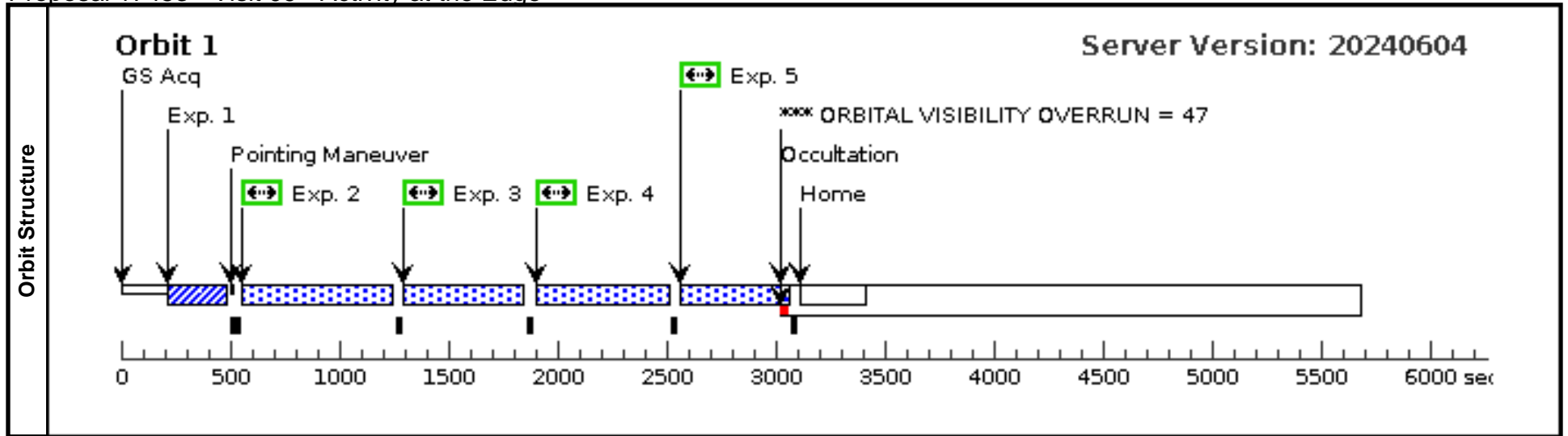
Visit	Proposal 17453, Visit 08, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																															
Diagnostics	(Visit 08) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. (Visit 08) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																															
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Proposal 17453 - Visit 09 - Activity at the Edge

Tue Jun 11 19:03:01 GMT 2024

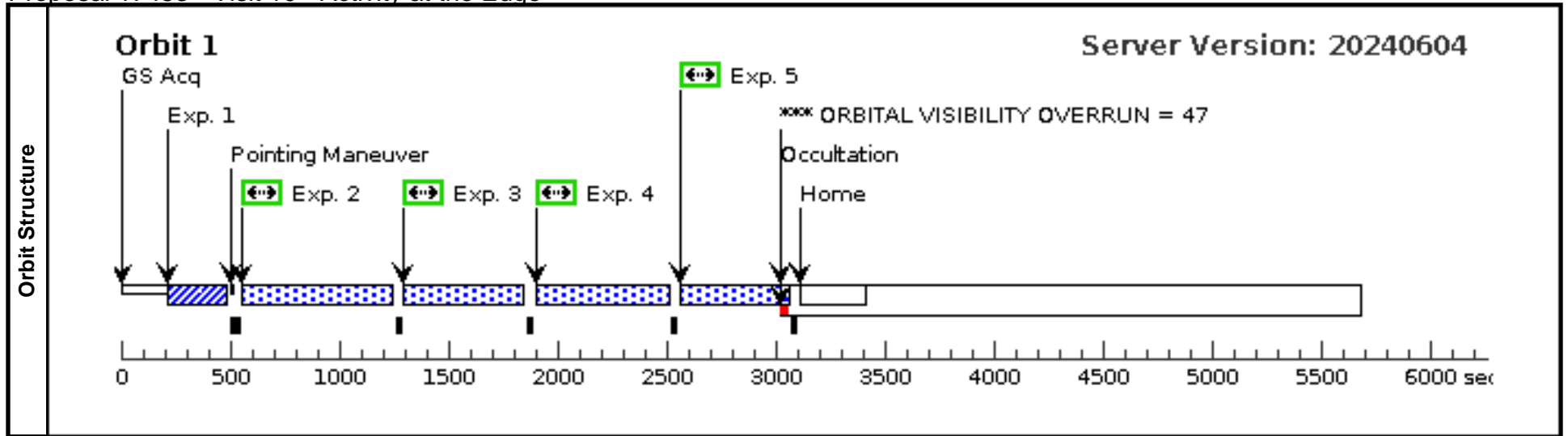
Visit	Proposal 17453, Visit 09, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																															
Diagnostics	(Visit 09) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. (Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																															
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4	(COS.sp.188 7728)	(9) BD+22D521	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 000; FP-POS=3; LIFETIME-POS=L P4			443 Secs (443 Secs) [==>]	[1]																																																																							
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Proposal 17453 - Visit 10 - Activity at the Edge

Tue Jun 11 19:03:01 GMT 2024

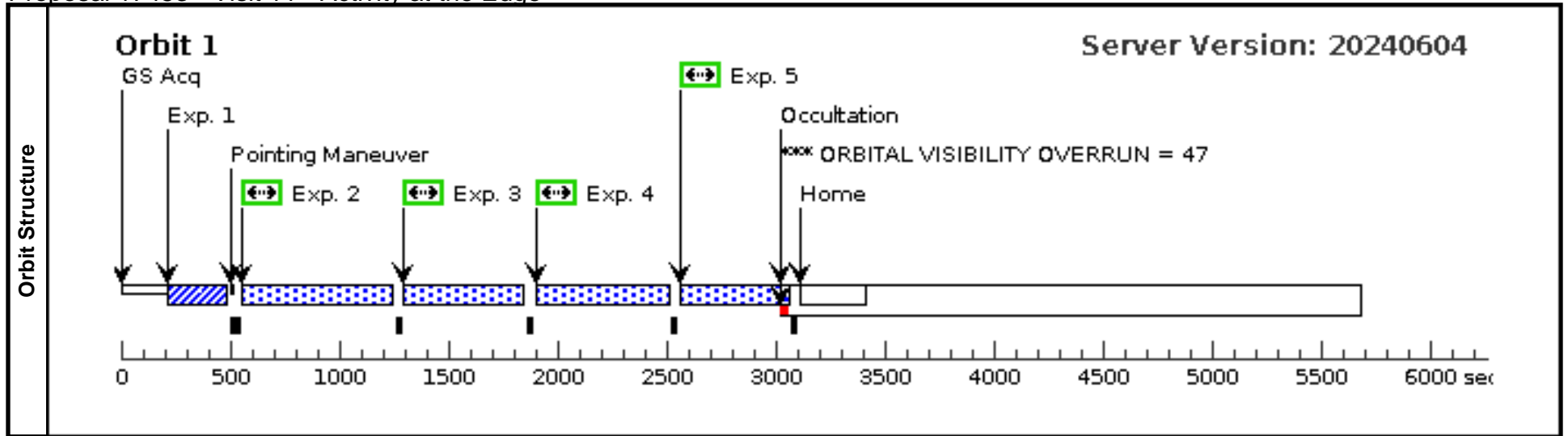
Visit	Proposal 17453, Visit 10, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
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Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(10)	BD+21D516	RA: 03 45 9.8829 (56.2911788d) Dec: +21 42 16.54 (21.70459d) Equinox: J2000	Proper Motion RA: +0.020887 arcsec/yr Proper Motion Dec: -0.048144 arcsec/yr Parallax: 0.0079484" Epoch of Position: 2000 Radial Velocity: +7.3 km/sec	V=10.0+/-0.2 F8V (from Teff=6200), (BP-RP)=0.748, G=9.85, RV=7.3+/-0.3 kps, Prot=2.9 d	Reference Frame: ICRS				
	Comments: Category=STAR Description=[F3-F9] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.188 7748)	(10) BD+21D516	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				24.0 Secs (24 Secs) [==>]	[1]
	Comments: Castelli-Kurucz Models F8V 6250 4.0; Renormalized to vegamag = 10.4 in filter Johnson/V									
	2	(COS.sp.188 7727)	(10) BD+21D516	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=10 000; FP-POS=1; LIFETIME-POS=L P4			500 Secs (500 Secs) [==>]	[1]
	3	(COS.sp.188 7727)	(10) BD+21D516	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=10 000; FP-POS=2; LIFETIME-POS=L P4			500 Secs (500 Secs) [==>]	[1]
	4	(COS.sp.188 7728)	(10) BD+21D516	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 000; FP-POS=3; LIFETIME-POS=L P4			443 Secs (443 Secs) [==>]	[1]
5	(COS.sp.188 7728)	(10) BD+21D516	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 000; FP-POS=4; LIFETIME-POS=L P4			443 Secs (443 Secs) [==>]	[1]	



Proposal 17453 - Visit 11 - Activity at the Edge

Tue Jun 11 19:03:01 GMT 2024

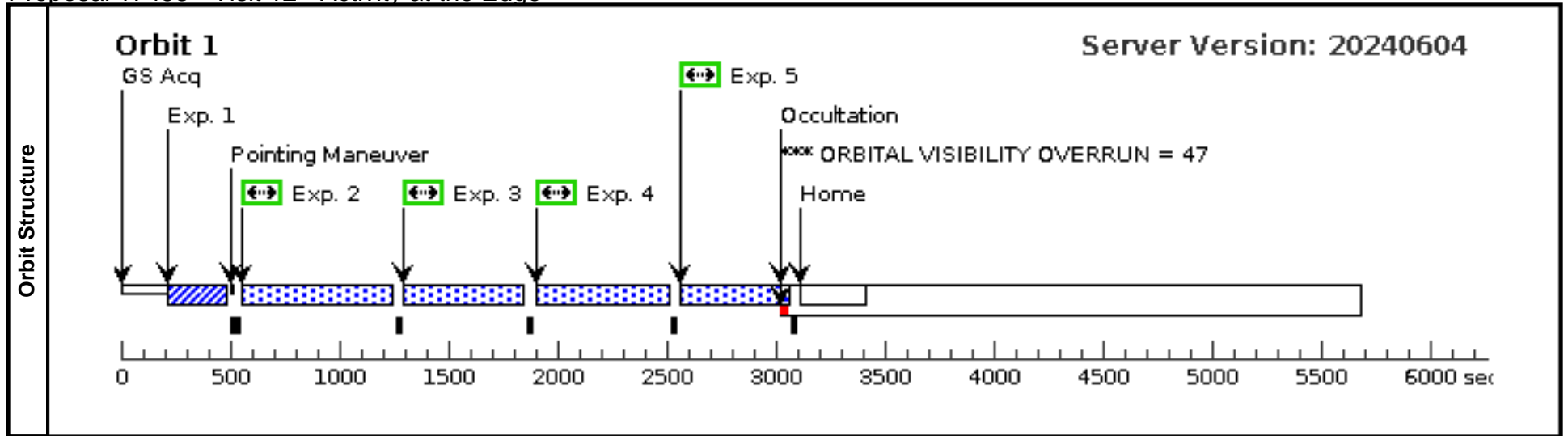
Visit	Proposal 17453, Visit 11, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																															
Diagnostics	(Visit 11) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. (Visit 11) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																															
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Proposal 17453 - Visit 12 - Activity at the Edge

Tue Jun 11 19:03:01 GMT 2024

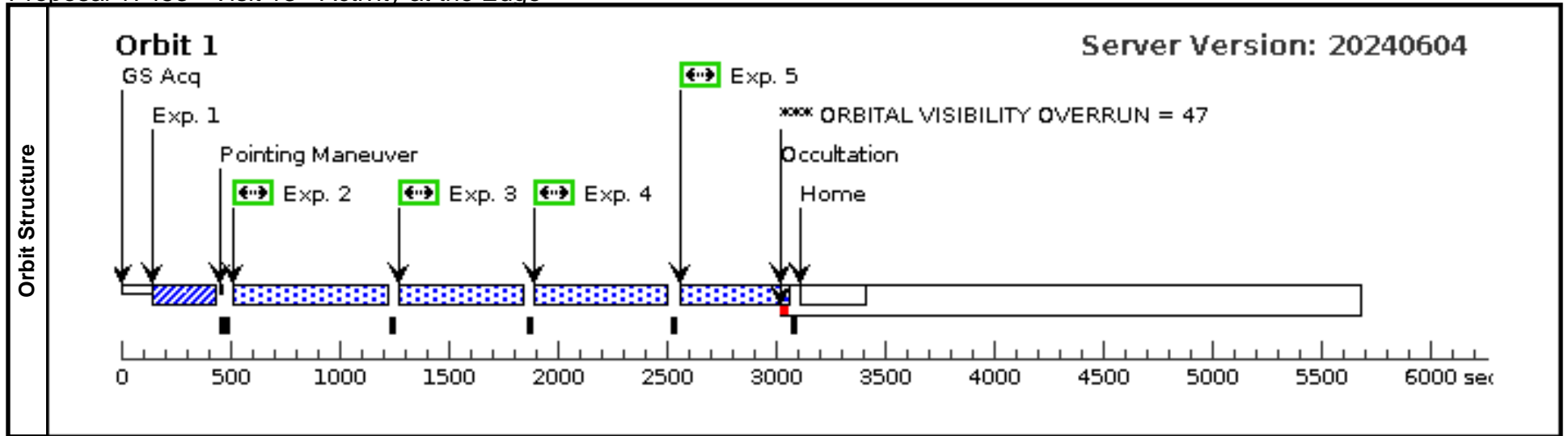
Visit	Proposal 17453, Visit 12, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																															
Diagnostics	(Visit 12) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. (Visit 12) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																															
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Proposal 17453 - Visit 13 - Activity at the Edge

Tue Jun 11 19:03:01 GMT 2024

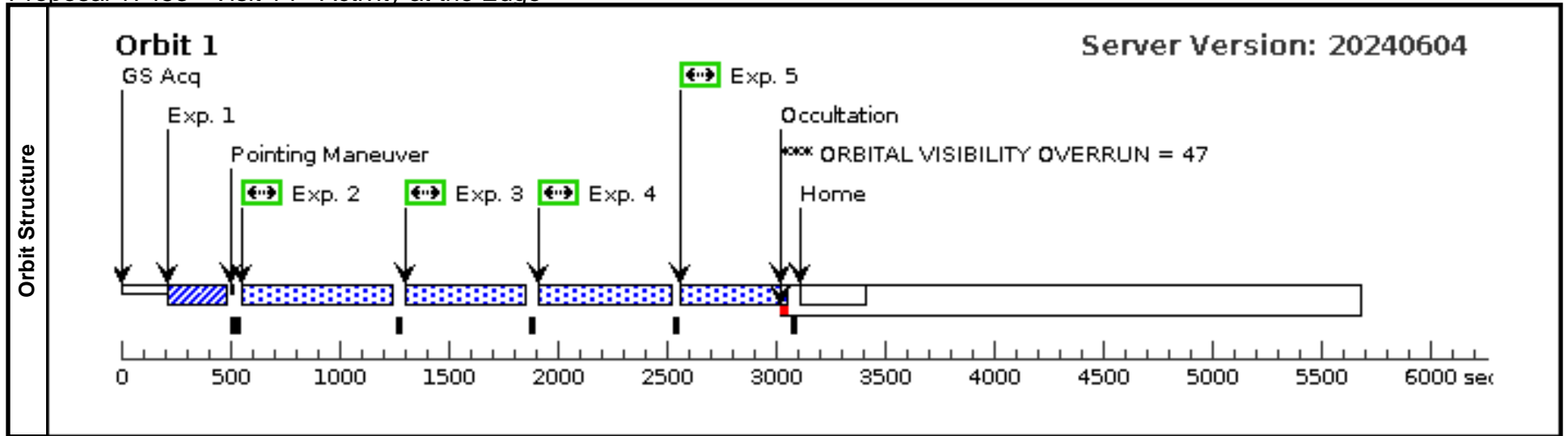
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Diagnostics	(Visit 13) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. (Visit 13) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																															
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Proposal 17453 - Visit 14 - Activity at the Edge

Tue Jun 11 19:03:01 GMT 2024

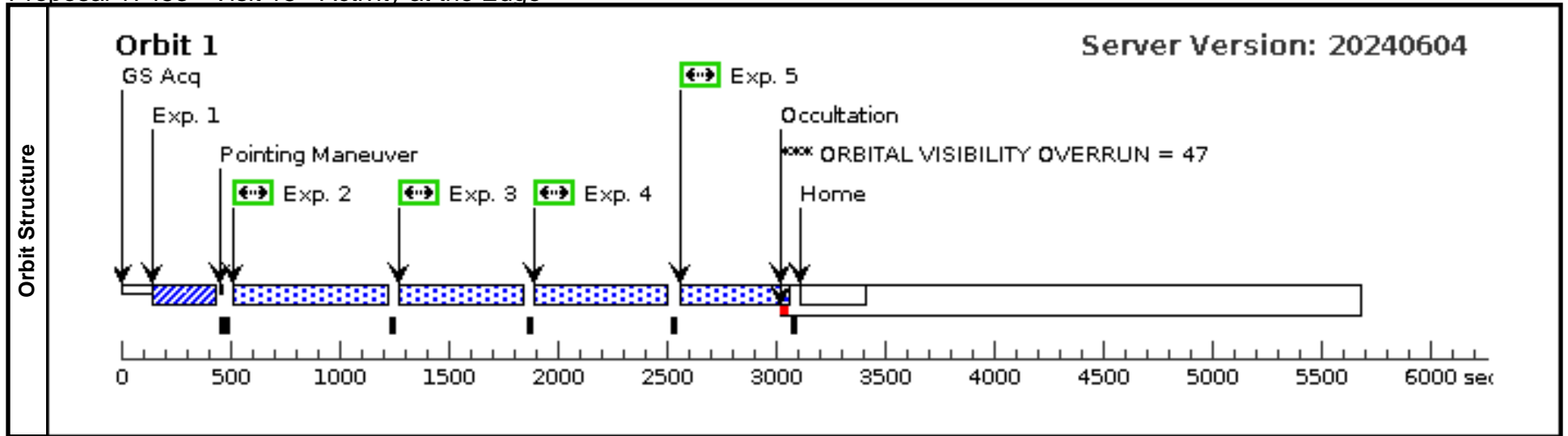
Visit	Proposal 17453, Visit 14, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																															
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Proposal 17453 - Visit 15 - Activity at the Edge

Tue Jun 11 19:03:01 GMT 2024

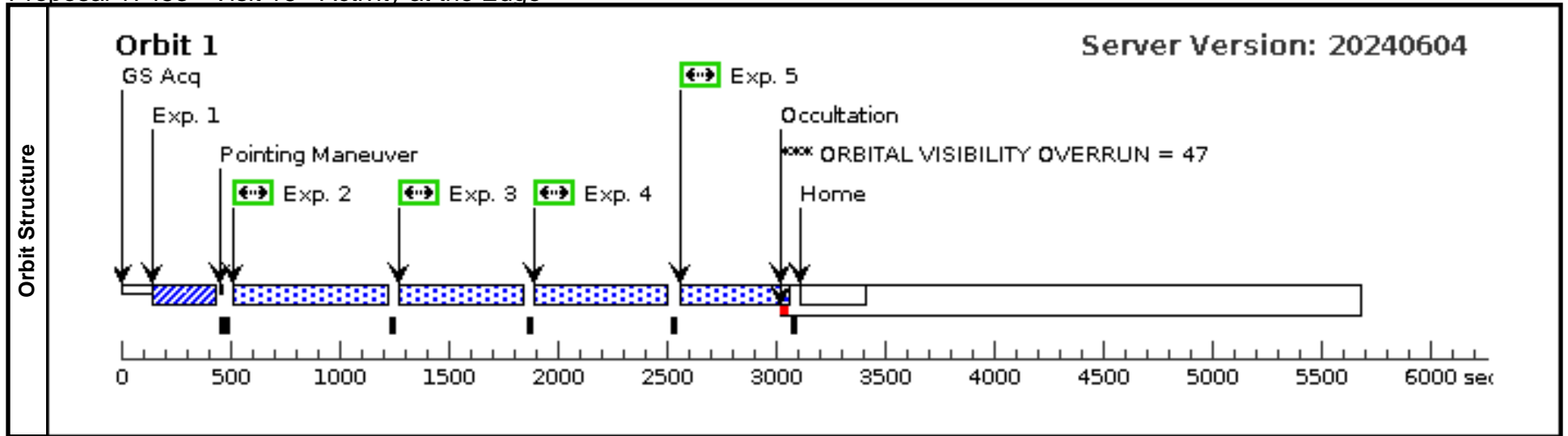
Visit	Proposal 17453, Visit 15, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																															
Diagnostics	(Visit 15) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. (Visit 15) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																															
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Proposal 17453 - Visit 16 - Activity at the Edge

Tue Jun 11 19:03:01 GMT 2024

Visit	Proposal 17453, Visit 16, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																															
Diagnostics	(Visit 16) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. (Visit 16) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																															
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Proposal 17453 - Visit 17 - Activity at the Edge

Tue Jun 11 19:03:01 GMT 2024

Visit	Proposal 17453, Visit 17, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																															
Diagnostics	(Visit 17) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. (Visit 17) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																															
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(17)</td> <td>HD-282963</td> <td>RA: 03 46 22.6698 (56.5944575d) Dec: +24 34 12.54 (24.57015d) Equinox: J2000</td> <td>Proper Motion RA: +0.019683 arcsec/yr Proper Motion Dec: -0.044994 arcsec/yr Parallax: +0.0073937" Epoch of Position: 2000 Radial Velocity: +6.6 km/sec</td> <td>V=10.5+/-0.2 G1V (from Teff=5960), (BP-RP)=0.821, G=10.30, RV=6.6+/-0.5 kps, Prot=3.2 d, fX=0.9e-13</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: V mag from Gaia G: V= G + 0.2</i> <i>Category=STAR</i> <i>Description=[G V-IV]</i> <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(17)	HD-282963	RA: 03 46 22.6698 (56.5944575d) Dec: +24 34 12.54 (24.57015d) Equinox: J2000	Proper Motion RA: +0.019683 arcsec/yr Proper Motion Dec: -0.044994 arcsec/yr Parallax: +0.0073937" Epoch of Position: 2000 Radial Velocity: +6.6 km/sec	V=10.5+/-0.2 G1V (from Teff=5960), (BP-RP)=0.821, G=10.30, RV=6.6+/-0.5 kps, Prot=3.2 d, fX=0.9e-13	Reference Frame: ICRS																																																										
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