



17697 - A far-UV treasury survey for hot subdwarf stars

Cycle: 32, Proposal Category: GO

(UV Initiative, Treasury)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Matti Dorsch (PI) (ESA Member) (Contact)	Universitat Potsdam
Stephan Geier (CoI) (ESA Member)	Universitat Potsdam
Prof. Ulrich Heber (CoI) (ESA Member)	Universitat Erlangen-Nurnberg
Prof. C Simon Jeffery (CoI) (ESA Member)	Armagh Observatory and Planetarium
Prof. Thomas Kupfer (CoI) (ESA Member)	University of Hamburg
Tiara Battich (CoI) (ESA Member)	Max Planck Institute for Astrophysics
Dr. Helge Todt (CoI) (ESA Member)	Universitat Potsdam
Max Pritzkeleit (CoI) (ESA Member)	Universitat Potsdam
Edward Snowdon (CoI) (ESA Member)	Armagh Observatory and Planetarium
Marilyn Latour (CoI) (ESA Member)	University of Gottingen
Dr. Ingrid Pelisoli (CoI) (ESA Member)	University of Warwick
Dr. Nicole Reindl (CoI) (ESA Member)	Universitat Potsdam
Dr. Veronika Schaffenroth (CoI) (ESA Member)	Thuringer Landessternwarte Tautenburg (TLS)
Prof. Klaus Werner (CoI) (ESA Member)	Eberhard Karls Universitat, Tuingen
Dr. Maja Vuckovic (CoI)	University of Valparaiso
Dr. Stephane Charpinet (CoI) (ESA Member)	Institut de Recherche en Astrophysique et Planetologie
Prof. Norbert Przybilla (CoI) (ESA Member)	University of Innsbruck
Alexey Bobrick (CoI)	Technion-Israel Institute of Technology
Laura Scott (CoI) (ESA Member)	Armagh Observatory and Planetarium
Harry Dawson (CoI) (ESA Member)	Universitat Potsdam
Dr. Evan Bauer (CoI) (AdminUSPI)	Lawrence Livermore National Laboratory

<i>Name</i>	<i>Institution</i>
Dr. Cole Johnston (CoI) (ESA Member)	Institute of Astronomy, KU Leuven
Dr. Peter Nemeth (CoI) (ESA Member)	Astroserver.org
Dr. Brad N Barlow (CoI)	University of North Carolina at Chapel Hill

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) BD+25-4655	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:00:40.0	yes
02	(2) GD300	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:00:41.0	yes
03	(3) UCAC4-108-030787	STIS/CCD STIS/FUV-MAMA	2	28-Jan-2025 18:00:41.0	yes
04	(4) PG1654+322	COS/FUV COS/NUV	1	28-Jan-2025 18:00:42.0	yes
05	(5) HE1142-2311	COS/FUV COS/NUV	1	28-Jan-2025 18:00:43.0	yes
06	(6) HE1251+0159	COS/FUV COS/NUV	1	28-Jan-2025 18:00:43.0	yes
07	(7) UCAC4-318-042721	STIS/CCD STIS/FUV-MAMA	4	28-Jan-2025 18:00:44.0	yes
08	(8) PG1355-064	STIS/CCD STIS/FUV-MAMA	2	28-Jan-2025 18:00:45.0	yes
09	(9) FEIGE54	STIS/CCD STIS/FUV-MAMA	4	28-Jan-2025 18:00:46.0	yes
10	(10) CW83-0711+22	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:00:47.0	yes
11	(11) GALEX-J191109.3-140654	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:00:48.0	yes

Proposal 17697 (STScI Edit Number: 3, Created: Tuesday, January 28, 2025, 6:01:05PM Eastern Standard Time) - Overview

<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>
12	(12) EC-04110-1348	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:00:48.0	yes
13	(15) HE-1518-0948	STIS/CCD STIS/FUV-MAMA	3	28-Jan-2025 18:00:49.0	yes
14	(20) GAIA-DR3-5369742867090186624	STIS/CCD STIS/FUV-MAMA	2	28-Jan-2025 18:00:50.0	yes
15	(21) GSC-08265-00355	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:00:50.0	yes
16	(23) CD-30-11223	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:00:51.0	yes
17	(24) HD265435	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:00:51.0	yes
18	(25) TIC-220490049	COS/FUV COS/NUV	1	28-Jan-2025 18:00:52.0	yes
19	(27) EC-05160-3050	STIS/CCD STIS/FUV-MAMA	2	28-Jan-2025 18:00:53.0	yes
20	(28) CPD-20-1123	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:00:54.0	yes
21	(29) TYC-4544-2658-1	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:00:54.0	yes
22	(30) FEIGE-11	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:00:55.0	yes
23	(31) JL87	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:00:55.0	yes
24	(32) BPS-CS-22940-0009	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:00:56.0	yes
25	(33) DY-CEN	COS/FUV COS/NUV	3	28-Jan-2025 18:00:56.0	yes

Proposal 17697 (STScI Edit Number: 3, Created: Tuesday, January 28, 2025, 6:01:05PM Eastern Standard Time) - Overview

<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>
26	(34) LS-IV-+06-2	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:00:57.0	yes
27	(35) EC-19529-4430	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:00:58.0	yes
28	(36) BX-CIR	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:00:58.0	yes
29	(37) BPS-BS-16981-0016	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:00:58.0	yes
30	(38) UCAC4-024-005294	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:00:59.0	yes
31	(39) FEIGE-36	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:01:00.0	yes
32	(40) GALEX-J080510.9-105834	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:01:00.0	yes
33	(41) EC-22081-1916	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:01:01.0	yes
34	(42) HD-133729	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:01:01.0	yes
35	(44) TON-139	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:01:02.0	yes
Z5	(44) TON-139	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:01:03.0	yes
36	(45) PB8783	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:01:03.0	yes
37	(46) SDSS-J082053.53+000843.4	COS/FUV COS/NUV	1	28-Jan-2025 18:01:03.0	yes
Z7	(46) SDSS-J082053.53+000843.4	COS/FUV COS/NUV	1	28-Jan-2025 18:01:04.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
38	(47) UVO0832-01	STIS/CCD STIS/FUV-MAMA	1	28-Jan-2025 18:01:04.0	yes

54 Total Orbits Used

ABSTRACT

While 95% of all stars will eventually become white dwarfs, their paths to this endpoint are diverse. This is most evident in the population of hot subdwarf stars: mostly helium-core stars that lack any hydrogen envelope. They occupy the HRD region between the main sequence and white dwarfs, covering a vast temperature (10kK to 100kK) and luminosity range (1 to 10^4 times solar). Besides canonical post-AGB evolution, they are formed by close binary evolution with mass transfer, common envelope episodes, and mergers. Their peculiar chemical compositions, magnetism, and stellar winds allow us to test nucleosynthesis and atomic diffusion calculations. Several subdwarf binaries have orbital periods <1 h and some are among the best candidates for the progenitors of supernovae Ia and qualify as calibration sources for gravitational wave detectors like LISA. Links between the subclasses of hot subdwarfs can only be understood by detailed far-UV abundance studies, because most metals become accessible only through their UV lines. We have designed a sample of prototypical hot subdwarfs to cover all types and phenomena with FUV spectroscopy with STIS/COS. They will be used to:

- (1) Identify stars formed by merger channels, as well as stable and unstable Roche lobe overflow evolution, and thus constrain binary evolution in general.
- (2) Obtain observational constraints to test theoretical nucleosynthesis, atomic diffusion, stellar wind, and evolutionary model calculations.
- (3) Construct a legacy sample of high-quality spectra covering this uncharted territory in stellar evolution, which provides templates for stellar population studies and atomic physics.

OBSERVING DESCRIPTION

Bright hot subdwarf stars (sdO/sdB) are observed with STIS/E140M. Most of these stars can achieve $SNR > 30$ in a single orbit. For some stars, up to three orbits are necessary to achieve this SNR.

Fainter stars are observed with COS/G130M-1291. Here $SNR > 50$ is usually achieved in a single orbit, except the especially important DY Cen (3 orbits). Because the position of these stars is well known from Gaia DR3 and the COS aperture is large, we do not require a specific target acquisition for stars observed with COS.

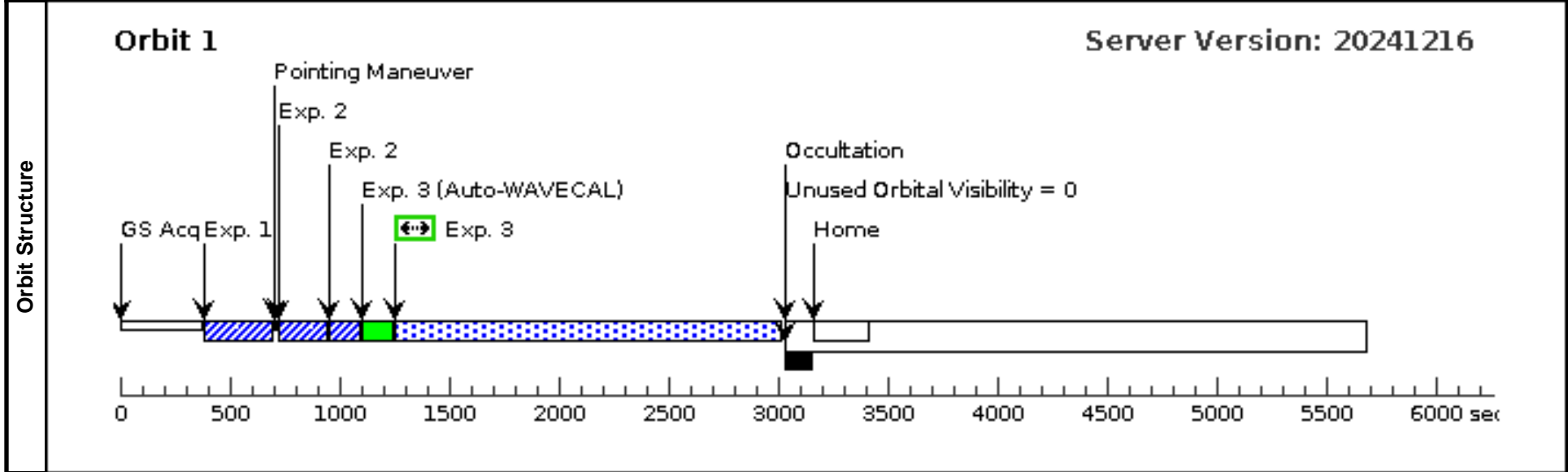
Proposal 17697 - Visit 01 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

Visit	Proposal 17697, Visit 01, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	BD+25-4655	RA: 21 59 41.9305 (329.9247104d) Dec: +26 25 56.73 (26.43243d) Equinox: J2000	Proper Motion RA: -37.221 mas/yr Proper Motion Dec: -42.006 mas/yr Parallax: 8.6560e-3" Epoch of Position: 2016	V=9.650263	Reference Frame: ICRS
	<i>Comments:</i> Category=STAR Description=[SDO] Extended=NO					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.192 7919)	(1) BD+25-4655	STIS/CCD, ACQ, F25ND3	MIRROR				5 Secs (5 Secs) [==>]	[1]
	2	(STIS.ta.194 1663)	(1) BD+25-4655	STIS/CCD, ACQ/PEAK, 0.2X0.06	MIRROR				0.1 Secs (0.1 Secs) [==>]	[1]
	3	(STIS.sp.19 41085)	(1) BD+25-4655	STIS/FUV-MAMA, ACCUM, 0.2X0.06	E140M 1425 A				2622 Secs (1745 Secs) [==>1745.0 Secs]	[1]



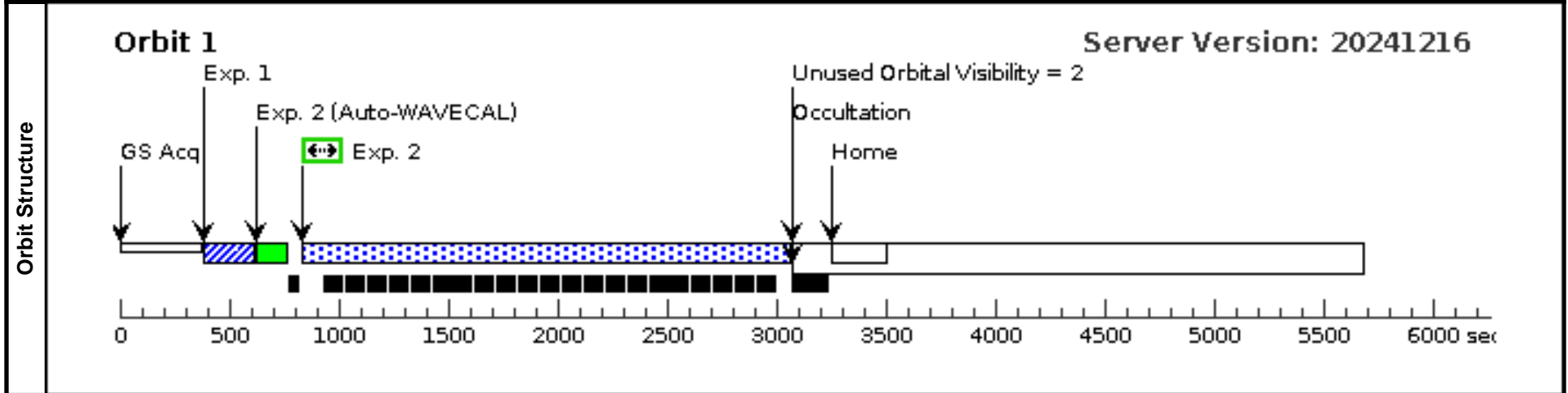
Proposal 17697 - Visit 02 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

Visit	Proposal 17697, Visit 02, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	GD300	RA: 09 55 19.3389 (148.8305787d) Dec: +51 36 57.46 (51.61596d) Equinox: J2000	Proper Motion RA: -74.961 mas/yr Proper Motion Dec: -97.442 mas/yr Parallax: 1.7042e-3" Epoch of Position: 2016.0	V=12.581236	Reference Frame: ICRS
	<i>Comments:</i> Category=STAR Description=[SDO] Extended=NO					

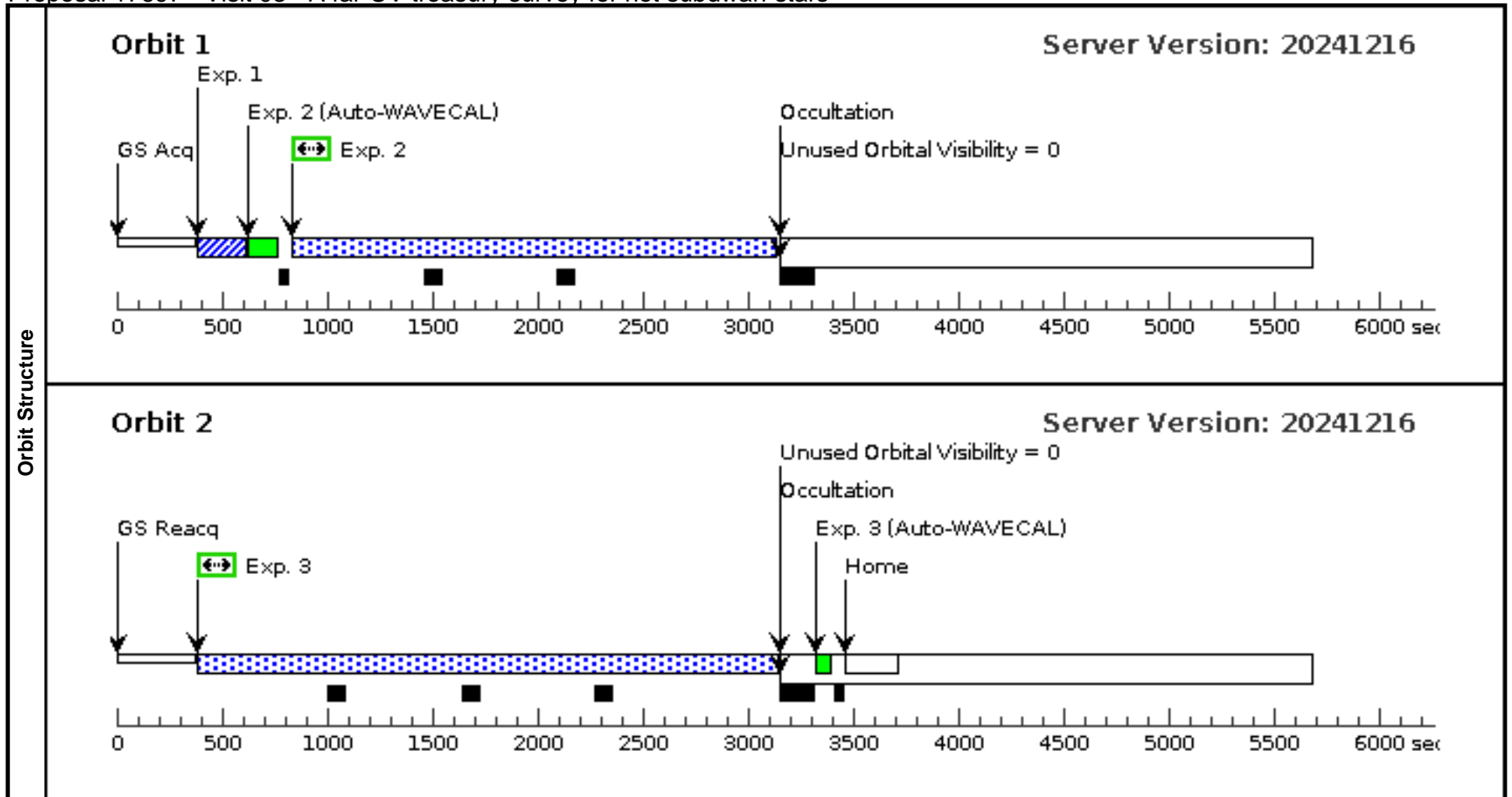
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.192 7925)	(2) GD300	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs) [==>]	[1]
	2	(STIS.sp.19 27887)	(2) GD300	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=99			2622 Secs (2213 Secs) [==>2213.0 Secs]	[1]



Proposal 17697 - Visit 03 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

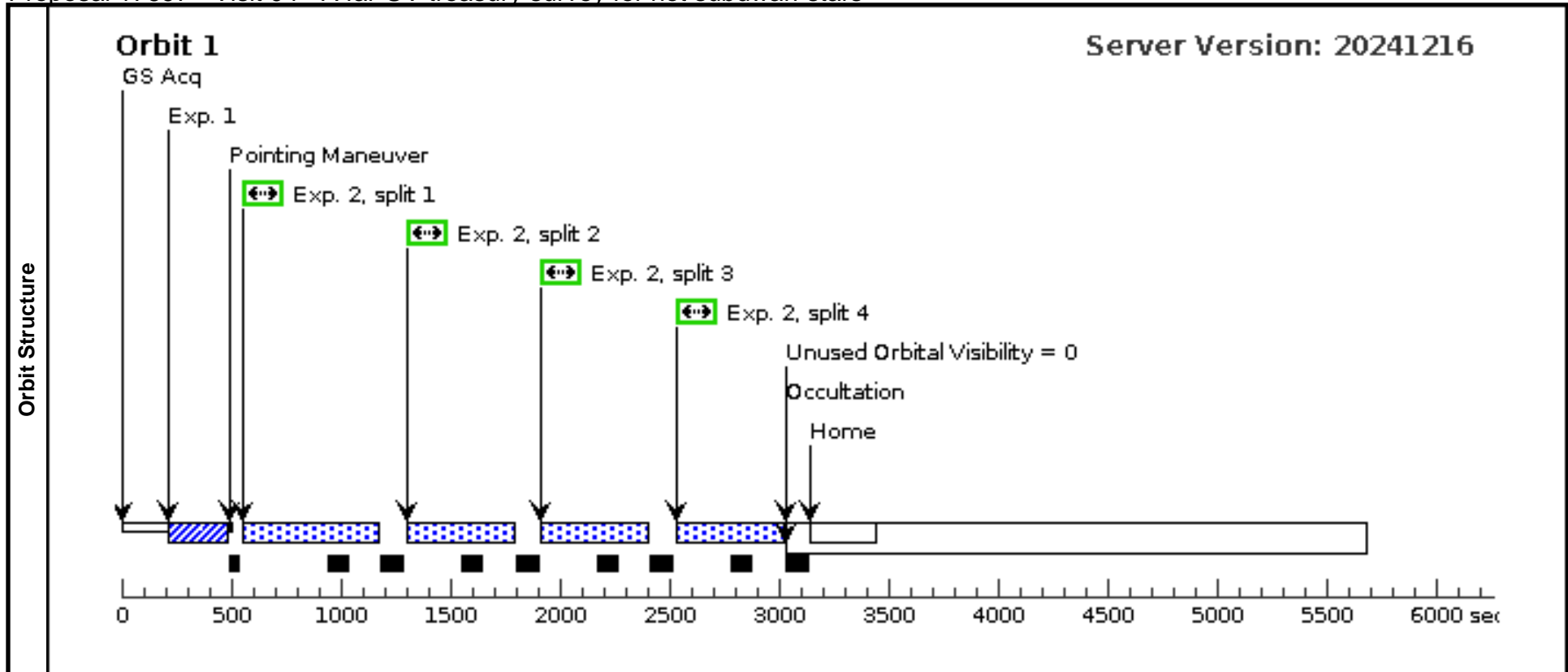
Visit	Proposal 17697, Visit 03, completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(3)	UCAC4-108-030787	RA: 10 29 26.4729 (157.3603037d) Dec: -68 33 21.31 (-68.55592d) Equinox: J2000	Proper Motion RA: -15.089 mas/yr Proper Motion Dec: 10.095 mas/yr Parallax: 0.5457e-3" Epoch of Position: 2016.0	V=13.785056	Reference Frame: ICRS			
	<i>Comments:</i> Category=STAR Description=[SDO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.192 7924)	(3) UCAC4-108-030 787	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs)	
									[==>]	[1]
	2	(STIS.sp.19 27890)	(3) UCAC4-108-030 787	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=63 0			2300 Secs (2286 Secs)	
								[==>2286.0 Secs]	[1]	
3	(STIS.sp.19 27890)	(3) UCAC4-108-030 787	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=63 0			2300 Secs (2741 Secs)		
								[==>2741.0 Secs]	[2]	



Proposal 17697 - Visit 04 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

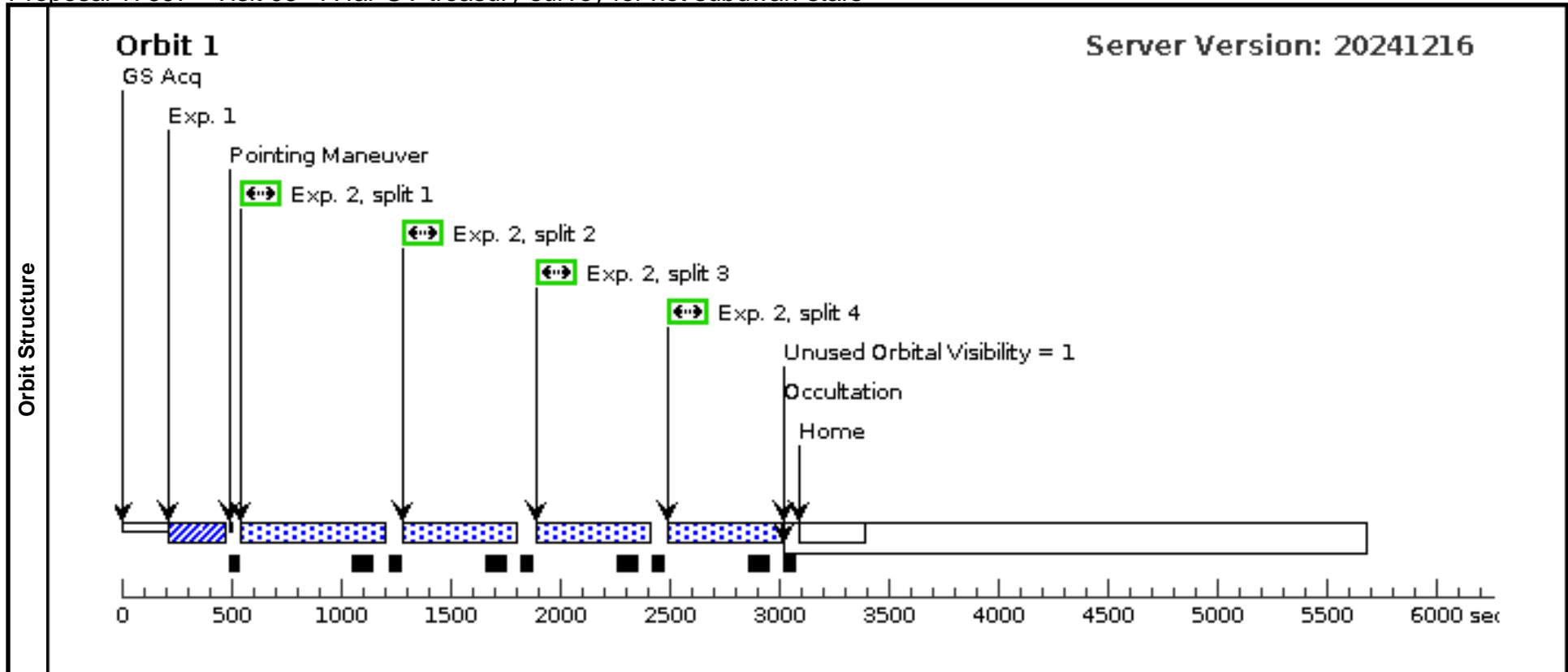
Visit	Proposal 17697, Visit 04, scheduled Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(4)	PG1654+322	RA: 16 55 52.9186 (253.9704942d) Dec: +32 08 25.07 (32.14030d) Equinox: J2000	Proper Motion RA: -3.244 mas/yr Proper Motion Dec: -0.680 mas/yr Parallax: 0.3146e-3" Epoch of Position: 2016.0	V=15.377199	Reference Frame: ICRS			
	<i>Comments:</i> Category=STAR Description=[SDO] 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.193 1495)	(4) PG1654+322	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				21 Secs (21 Secs) [==>]	[1]
	2	(COS.sp.193 2754)	(4) PG1654+322	COS/FUV, TIME-TAG, PSA	G130M 1222 A	SEGMENT=BOTH; BUFFER-TIME=22 0; FP-POS=ALL			200 Secs (1736 Secs) [==>434.0 Secs (Split 1)] [==>434.0 Secs (Split 2)] [==>434.0 Secs (Split 3)] [==>434.0 Secs (Split 4)]	[1]



Proposal 17697 - Visit 05 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

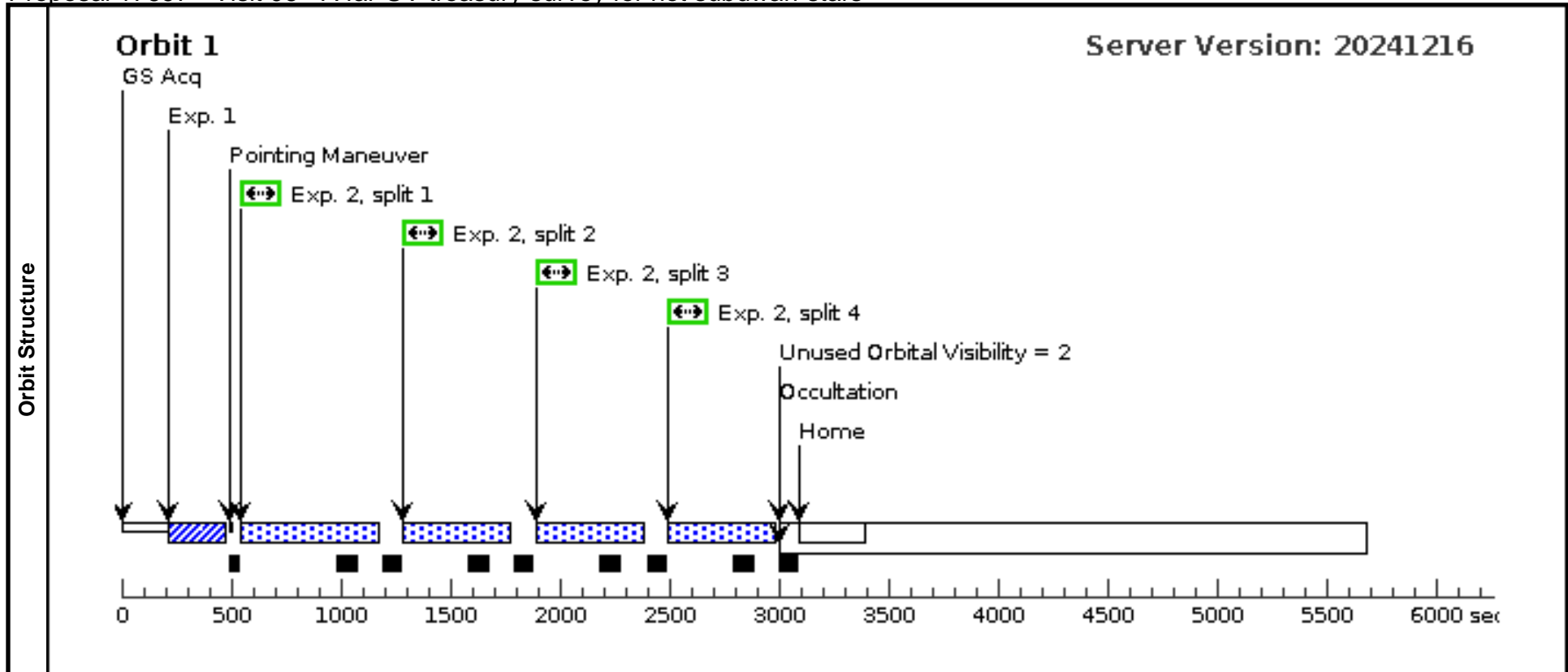
Visit	Proposal 17697, Visit 05, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(5)	HE1142-2311	RA: 11 44 50.1430 (176.2089292d) Dec: -23 28 18.57 (-23.47183d) Equinox: J2000	Proper Motion RA: -4.296 mas/yr Proper Motion Dec: -6.533 mas/yr Parallax: 0.2985e-3" Epoch of Position: 2016.0	V=15.506015	Reference Frame: ICRS			
	<i>Comments:</i> Category=STAR Description=[SDO] 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.193 1496)	(5) HE1142-2311	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				20 Secs (20 Secs) [==>]	[1]
2	(COS.sp.193 5347)	(5) HE1142-2311	COS/FUV, TIME-TAG, PSA	G130M 1222 A	SEGMENT=BOTH; BUFFER-TIME=33 7; FP-POS=ALL			300 Secs (1872 Secs) [==>468.0 Secs (Split 1)] [==>468.0 Secs (Split 2)] [==>468.0 Secs (Split 3)] [==>468.0 Secs (Split 4)]	[1]	



Proposal 17697 - Visit 06 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

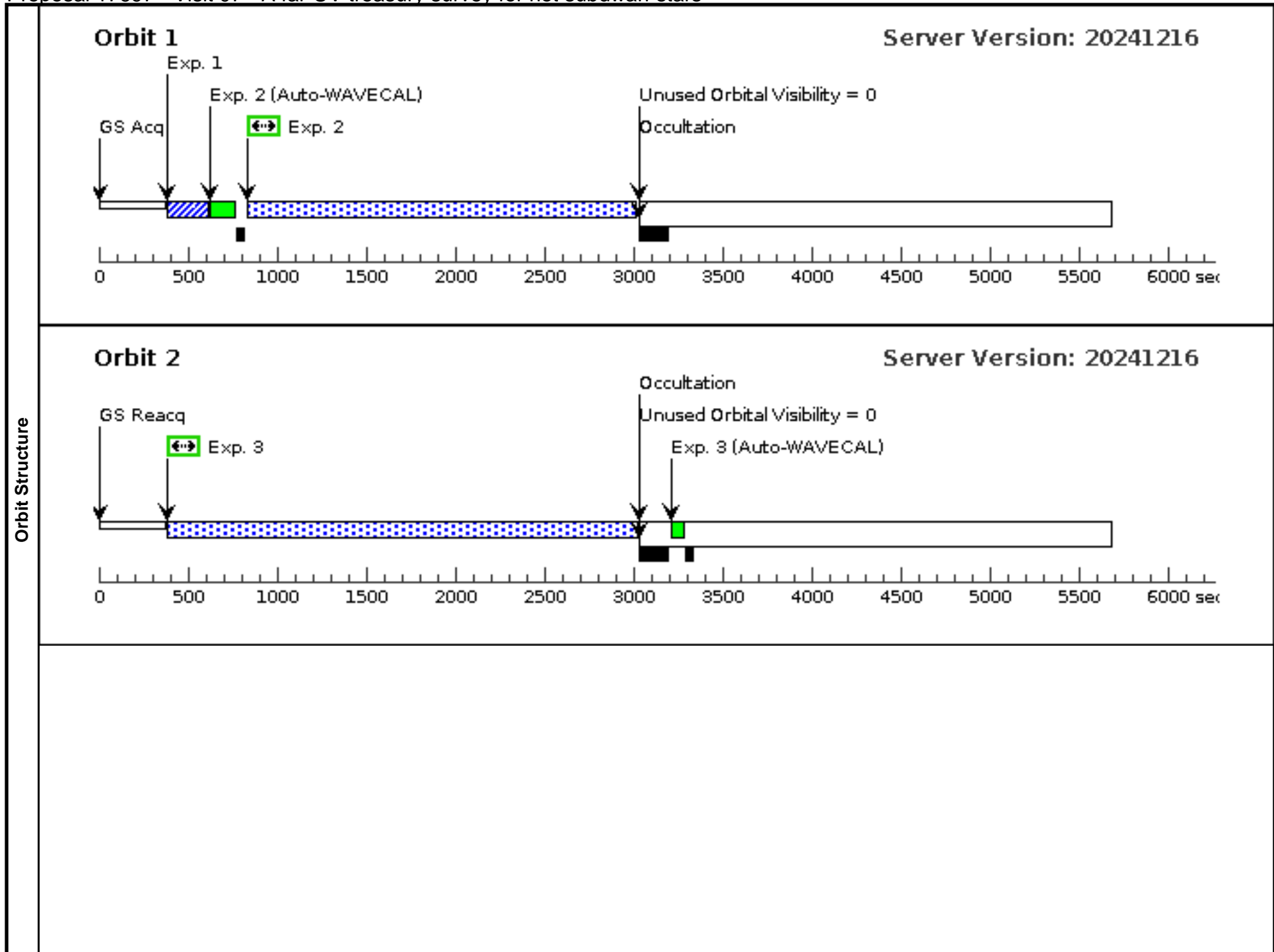
Visit	Proposal 17697, Visit 06, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(6)	HE1251+0159 Alt Name1: PG1251+019	RA: 12 54 8.3281 (193.5347004d) Dec: +01 43 23.76 (1.72327d) Equinox: J2000	Proper Motion RA: 3.932 mas/yr Proper Motion Dec: -21.987 mas/yr Parallax: 0.3410e-3" Epoch of Position: 2016.0	V=15.521039	Reference Frame: ICRS			
	<i>Comments:</i> Category=STAR Description=[SDO] 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.193 1500)	(6) HE1251+0159	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				20 Secs (20 Secs) [==>]	[1]
2	(COS.sp.193 5351)	(6) HE1251+0159	COS/FUV, TIME-TAG, PSA	G130M 1222 A	SEGMENT=BOTH; BUFFER-TIME=25 9; FP-POS=ALL			300 Secs (1764 Secs) [==>441.0 Secs (Split 1)] [==>441.0 Secs (Split 2)] [==>441.0 Secs (Split 3)] [==>441.0 Secs (Split 4)]	[1]	

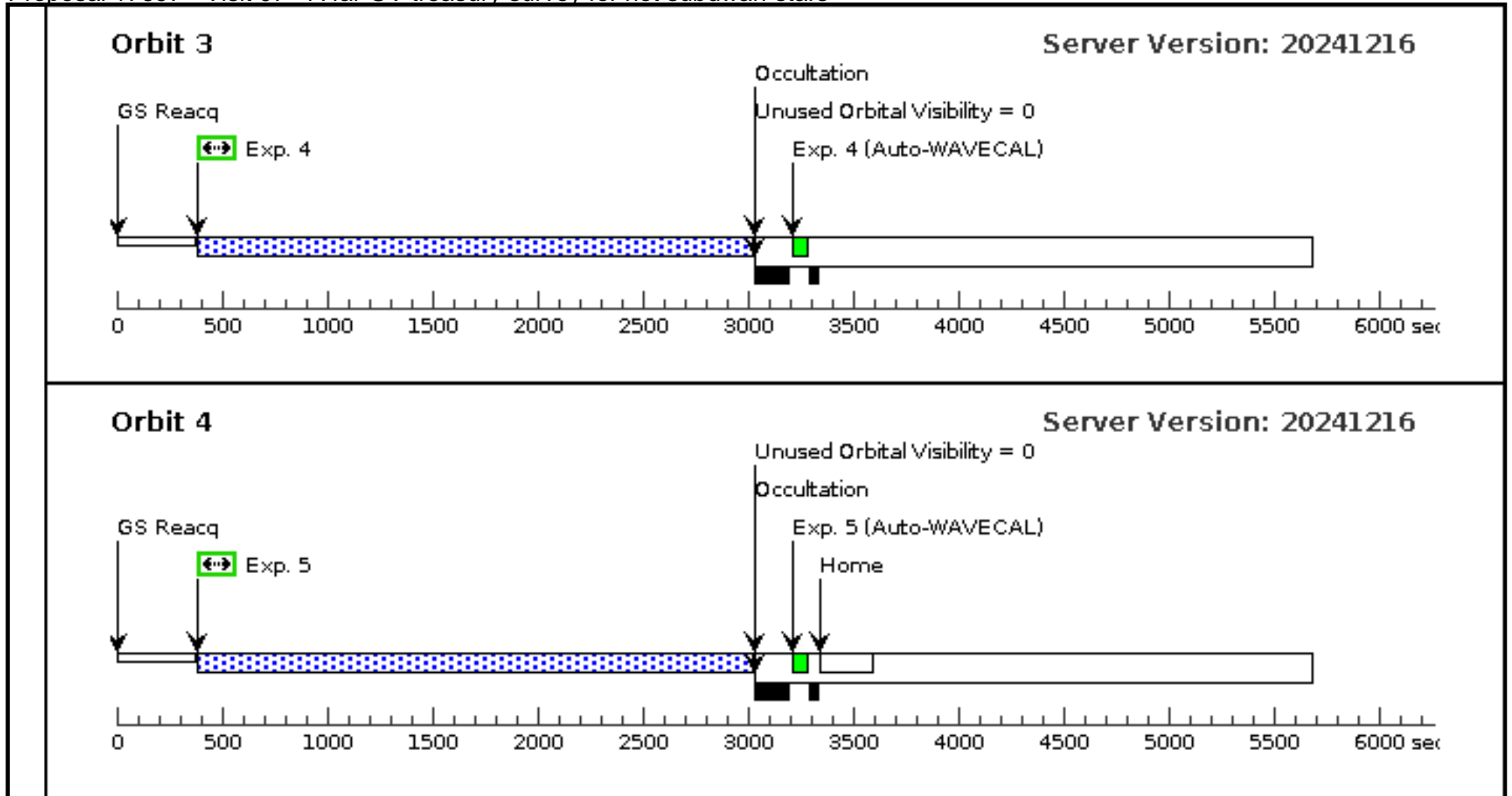


Proposal 17697 - Visit 07 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

Visit	Proposal 17697, Visit 07, scheduling 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)	UCAC4-318-042721	RA: 08 09 38.6765 (122.4111521d) Dec: -26 27 39.21 (-26.46089d) Equinox: J2000	Proper Motion RA: -1.410 mas/yr Proper Motion Dec: 1.582 mas/yr Parallax: 0.6585e-3" Epoch of Position: 2016.0	V=14.515477	Reference Frame: ICRS				
	<i>Comments:</i> Category=STAR Description=[SDO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.192 8031)	(7) UCAC4-318-042 721	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	(STIS.sp.19 27911)	(7) UCAC4-318-042 721	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=20 32			2300 Secs (2167 Secs) [==>2167.0 Secs]	[1]
	3	(STIS.sp.19 27911)	(7) UCAC4-318-042 721	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=20 32			2300 Secs (2622 Secs) [==>2622.0 Secs]	[2]
	4	(STIS.sp.19 27911)	(7) UCAC4-318-042 721	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=20 32			2300 Secs (2622 Secs) [==>2622.0 Secs]	[3]
	5	(STIS.sp.19 27911)	(7) UCAC4-318-042 721	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=20 32			2300 Secs (2622 Secs) [==>2622.0 Secs]	[4]

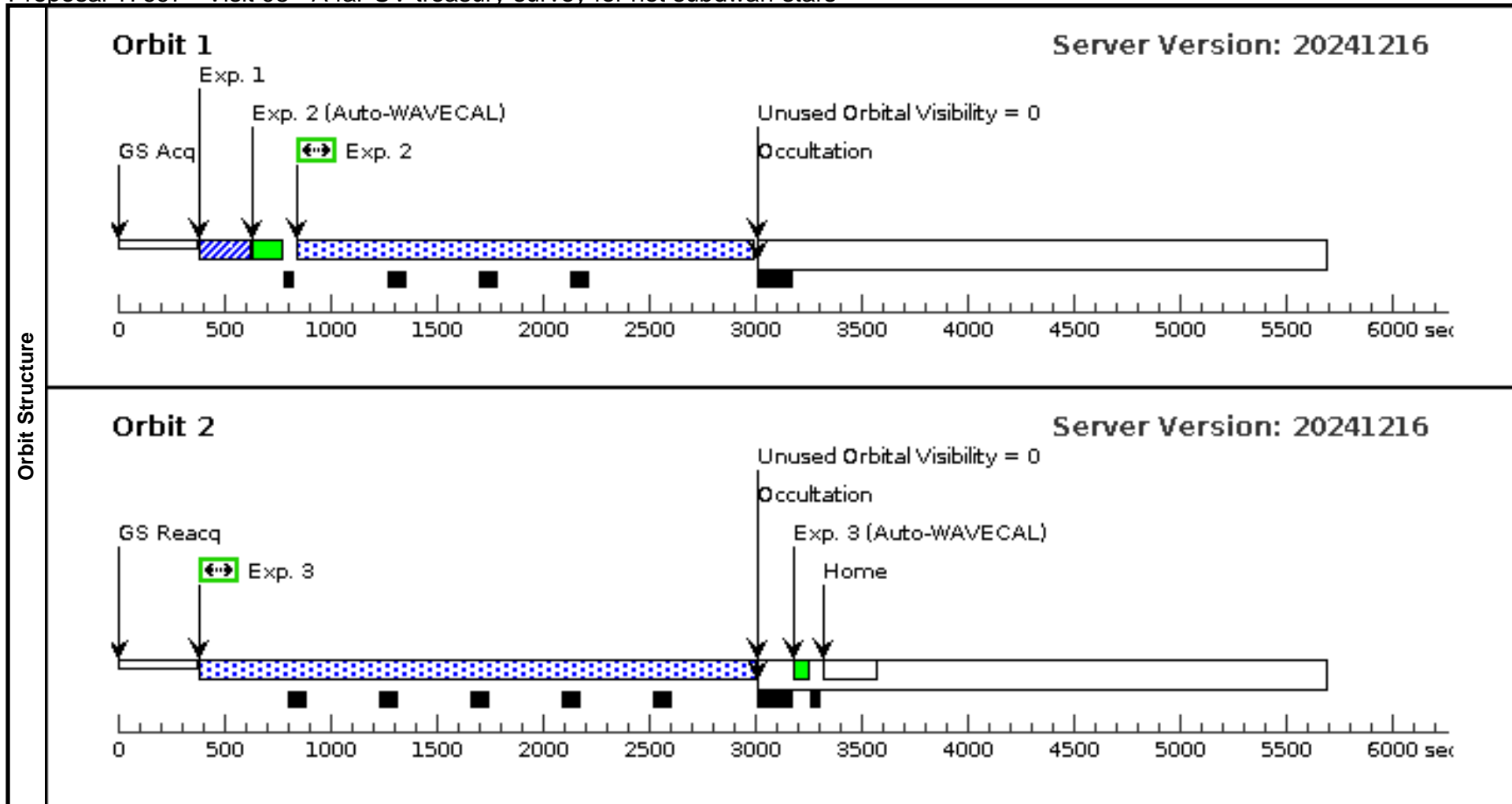




Proposal 17697 - Visit 08 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

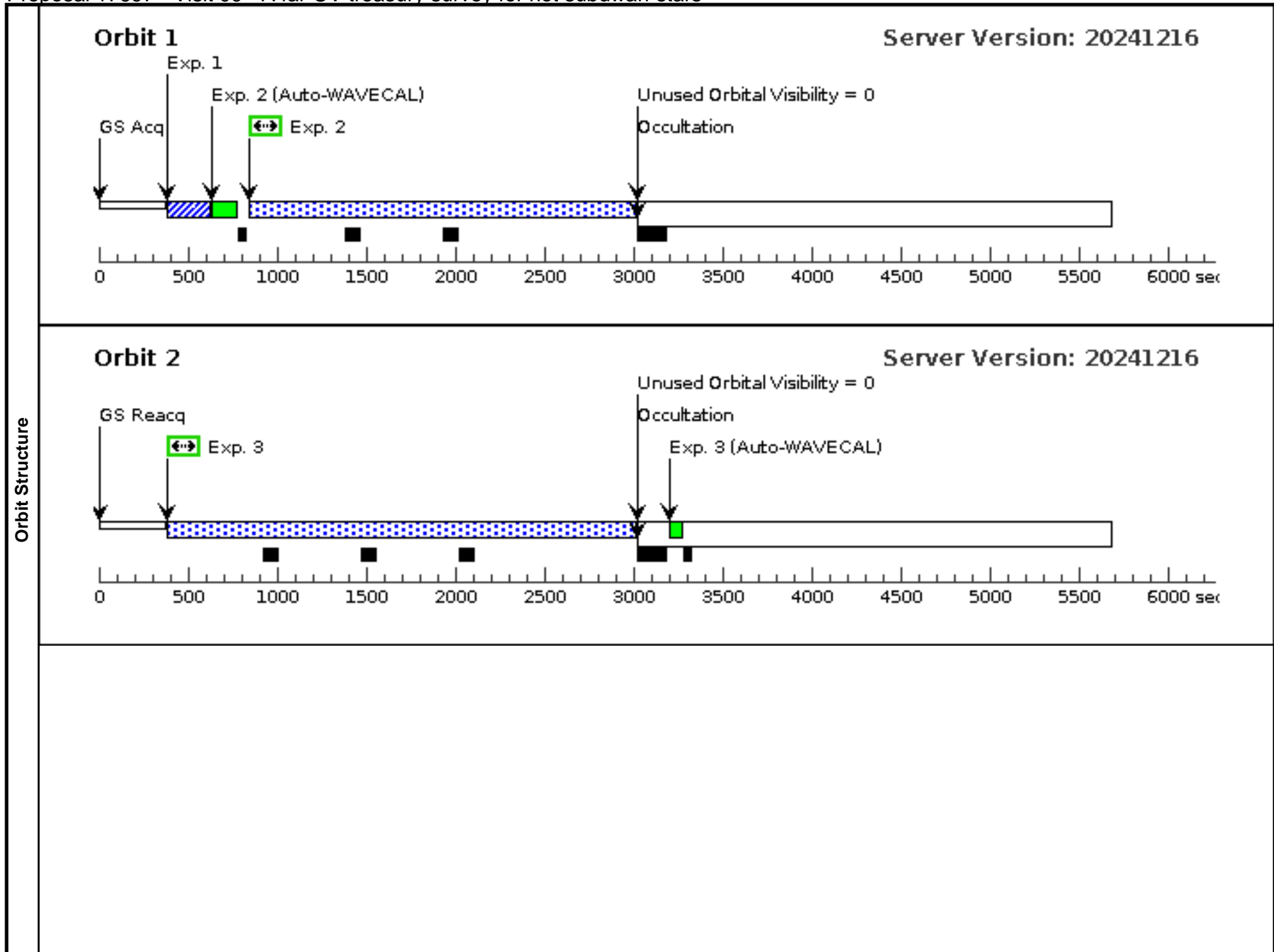
Visit	Proposal 17697, Visit 08, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(8)	PG1355-064	RA: 13 57 54.2336 (209.4759733d) Dec: -06 37 32.00 (-6.62556d) Equinox: J2000	Proper Motion RA: -25.441 mas/yr Proper Motion Dec: -5.004 mas/yr Parallax: 0.7717e-3" Epoch of Position: 2016.0	V=13.613085	Reference Frame: ICRS			
	<i>Comments:</i> Category=STAR Description=[SDO]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.192 8031)	(8) PG1355-064	STIS/CCD, ACQ, F28X50LP	MIRROR				3 Secs (3 Secs)	
									[==>]	[1]
	2	(STIS.sp.19 28028)	(8) PG1355-064	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=42 8			2300 Secs (2137 Secs)	
								[==>2137.0 Secs]	[1]	
3	(STIS.sp.19 28028)	(8) PG1355-064	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=42 8			2300 Secs (2600 Secs)		
								[==>2600.0 Secs]	[2]	

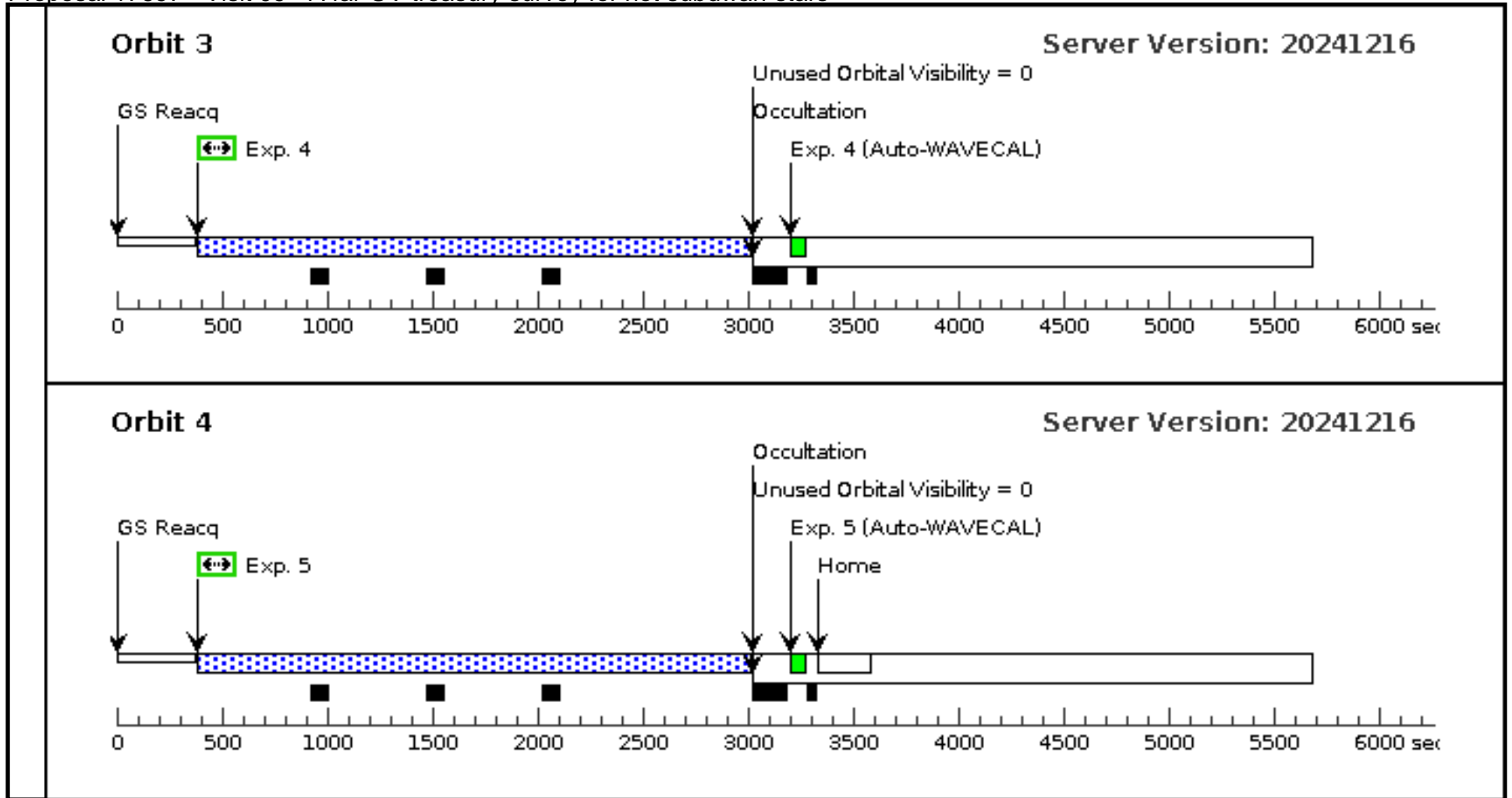


Proposal 17697 - Visit 09 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

Visit	Proposal 17697, Visit 09, completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: (none)												
	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>(9)</td> <td>FEIGE54</td> <td>RA: 12 02 40.0639 (180.6669329d) Dec: -19 41 7.78 (-19.68549d) Equinox: J2000</td> <td>Proper Motion RA: -22.061 mas/yr Proper Motion Dec: 10.350 mas/yr Parallax: 0.7896e-3" Epoch of Position: 2016.0</td> <td>V=14.363+/-0.1</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments:</i> Category=STAR Description=[SDO]</p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(9)	FEIGE54	RA: 12 02 40.0639 (180.6669329d) Dec: -19 41 7.78 (-19.68549d) Equinox: J2000	Proper Motion RA: -22.061 mas/yr Proper Motion Dec: 10.350 mas/yr Parallax: 0.7896e-3" Epoch of Position: 2016.0	V=14.363+/-0.1
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous								
(9)	FEIGE54	RA: 12 02 40.0639 (180.6669329d) Dec: -19 41 7.78 (-19.68549d) Equinox: J2000	Proper Motion RA: -22.061 mas/yr Proper Motion Dec: 10.350 mas/yr Parallax: 0.7896e-3" Epoch of Position: 2016.0	V=14.363+/-0.1	Reference Frame: ICRS								
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit			
	1	(STIS.ta.192 8033)	(9) FEIGE54	STIS/CCD, ACQ, F28X50LP	MIRROR				3 Secs (3 Secs)				
									[==>]	[1]			
	2	(STIS.sp.19 28032)	(9) FEIGE54	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=54 6			2300 Secs (2150 Secs)				
									[==>2150.0 Secs]	[1]			
	3	(STIS.sp.19 28032)	(9) FEIGE54	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=54 6			2300 Secs (2613 Secs)				
								[==>2613.0 Secs]	[2]				
4	(STIS.sp.19 28032)	(9) FEIGE54	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=54 6			2300 Secs (2613 Secs)					
								[==>2613.0 Secs]	[3]				
5	(STIS.sp.19 28032)	(9) FEIGE54	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=54 6			2300 Secs (2613 Secs)					
								[==>2613.0 Secs]	[4]				





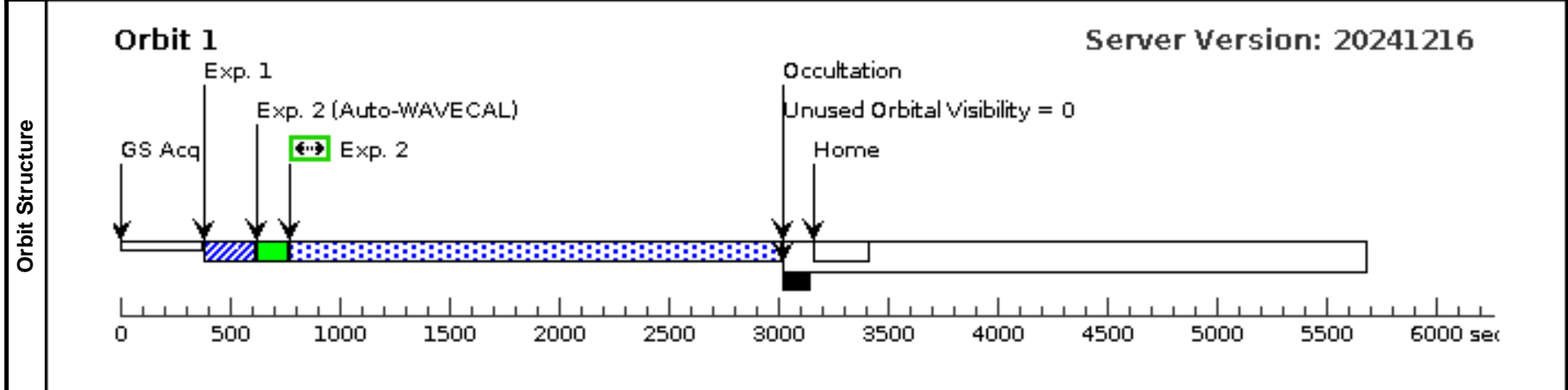
Proposal 17697 - Visit 10 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

Visit	Proposal 17697, Visit 10, scheduling				
	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)	CW83-0711+22	RA: 07 14 29.8643 (108.6244346d) Dec: +22 16 59.22 (22.28312d) Equinox: J2000	Proper Motion RA: -6.582 mas/yr Proper Motion Dec: -11.497 mas/yr Parallax: 2.6873e-3" Epoch of Position: 2016.0	V=11.73	Reference Frame: ICRS
	<i>Comments:</i>					
	Category=STAR					
	Description=[SDO]					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.192 8036)	(10) CW83-0711+22	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs)	
									[=>]	[1]
	2	(STIS.sp.19 28034)	(10) CW83-0711+22	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A				2300 Secs (2223 Secs)	
									[=>2223.0 Secs]	[1]



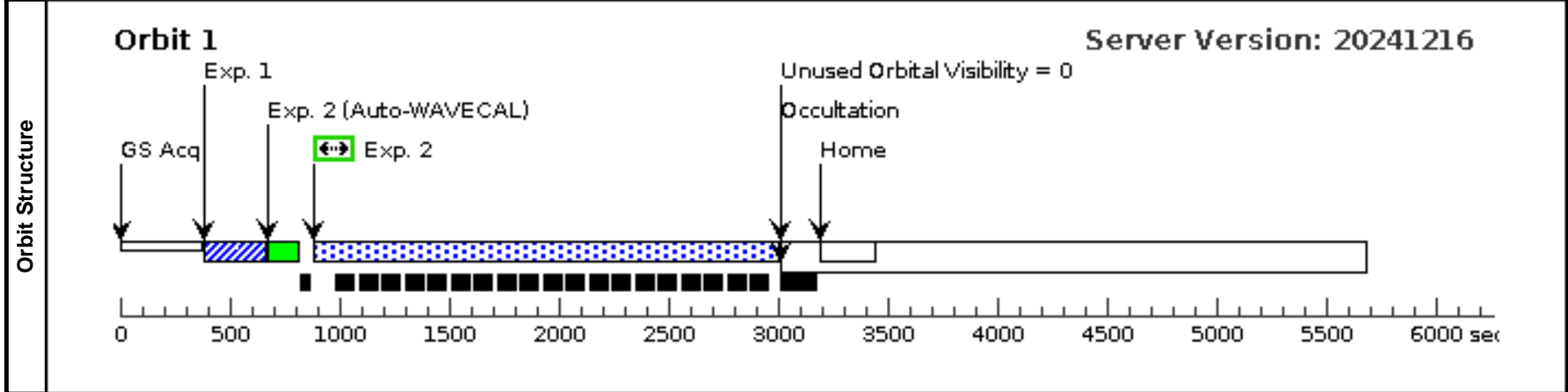
Proposal 17697 - Visit 11 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

Visit	Proposal 17697, Visit 11, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(11)	GALEX-J191109.3-140654	RA: 19 11 9.2520 (287.7885500d) Dec: -14 06 53.81 (-14.11495d) Equinox: J2000	Proper Motion RA: -37.082 mas/yr Proper Motion Dec: -33.415 mas/yr Parallax: 1.9414e-3" Epoch of Position: 2016.0	V=11.876481	Reference Frame: ICRS
	<i>Comments:</i>					
	Category=STAR Description=[SDO]					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 1514)	(11) GALEX-J19110 9.3-140654	STIS/CCD, ACQ, F28X500II	MIRROR				4.7 Secs (4.7 Secs)	
									[=>]	[1]
	2	(STIS.sp.19 31501)	(11) GALEX-J19110 9.3-140654	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=10 5			2300 Secs (2105 Secs)	
									[=>2105.0 Secs]	[1]



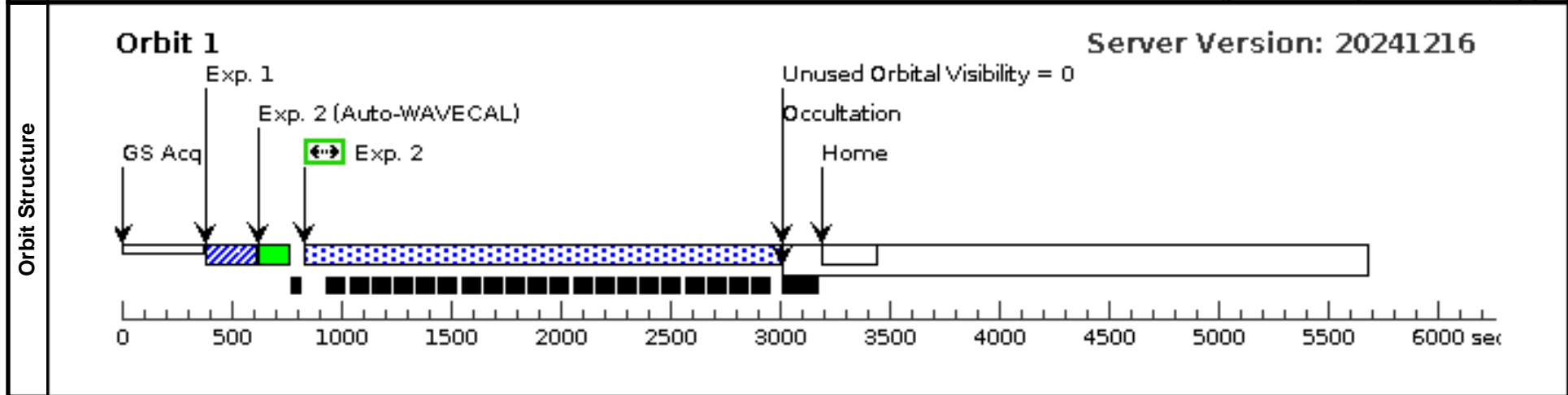
Proposal 17697 - Visit 12 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

Visit	Proposal 17697, Visit 12, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(12)	EC-04110-1348	RA: 04 13 19.4253 (63.3309388d) Dec: -13 41 2.86 (-13.68413d) Equinox: J2000	Proper Motion RA: 10.770 mas/yr Proper Motion Dec: -3.785 mas/yr Parallax: 1.37e-3" Epoch of Position: 2016.0	V=12.480924	Reference Frame: ICRS
	<i>Comments:</i>					
	Category=STAR					
	Description=[SDO]					

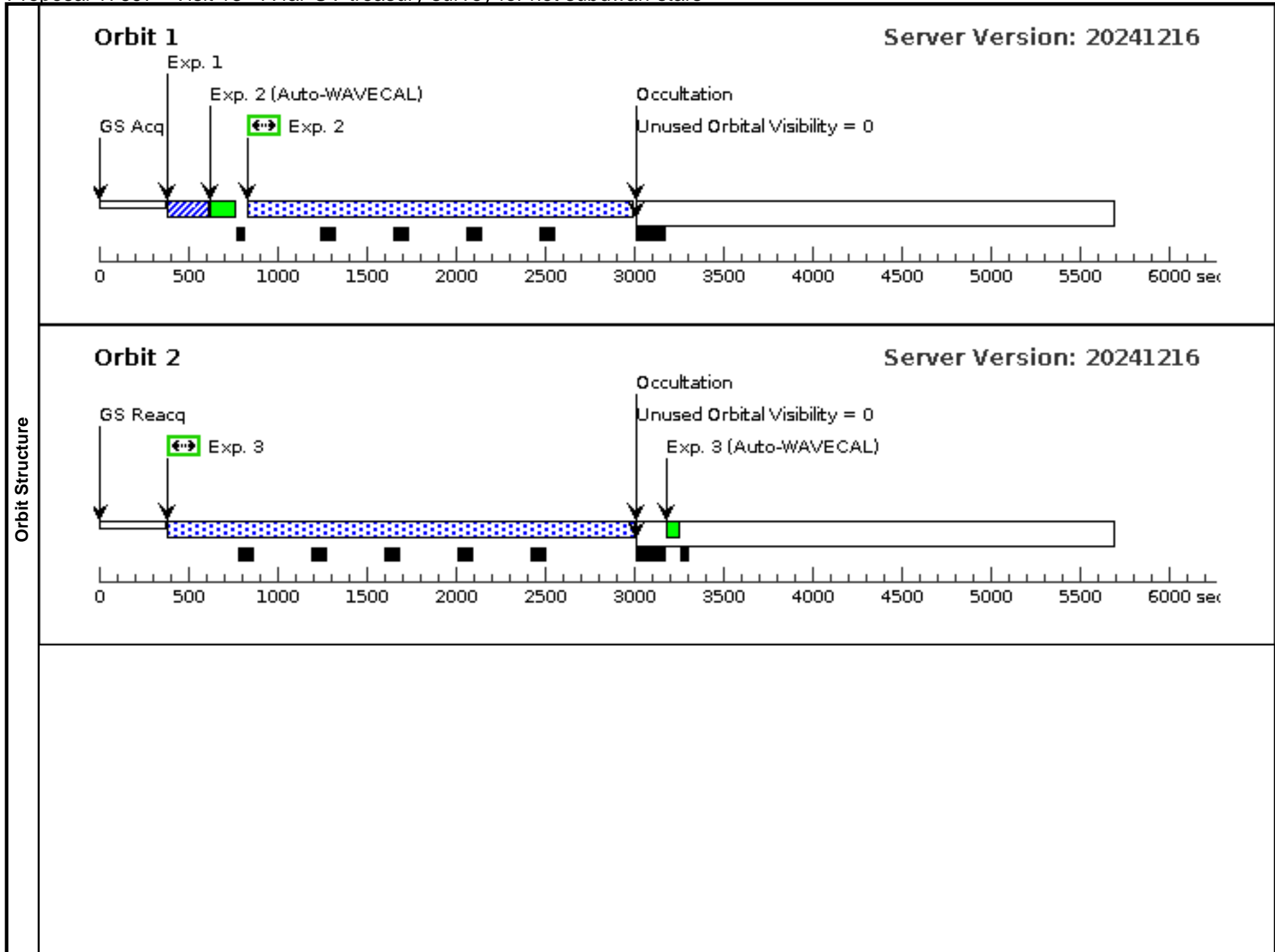
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 1535)	(12) EC-04110-1348	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs)	
									[=>]	[1]
	2	(STIS.sp.19 31532)	(12) EC-04110-1348	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=10 2			2300 Secs (2152 Secs)	
									[=>2152.0 Secs]	[1]

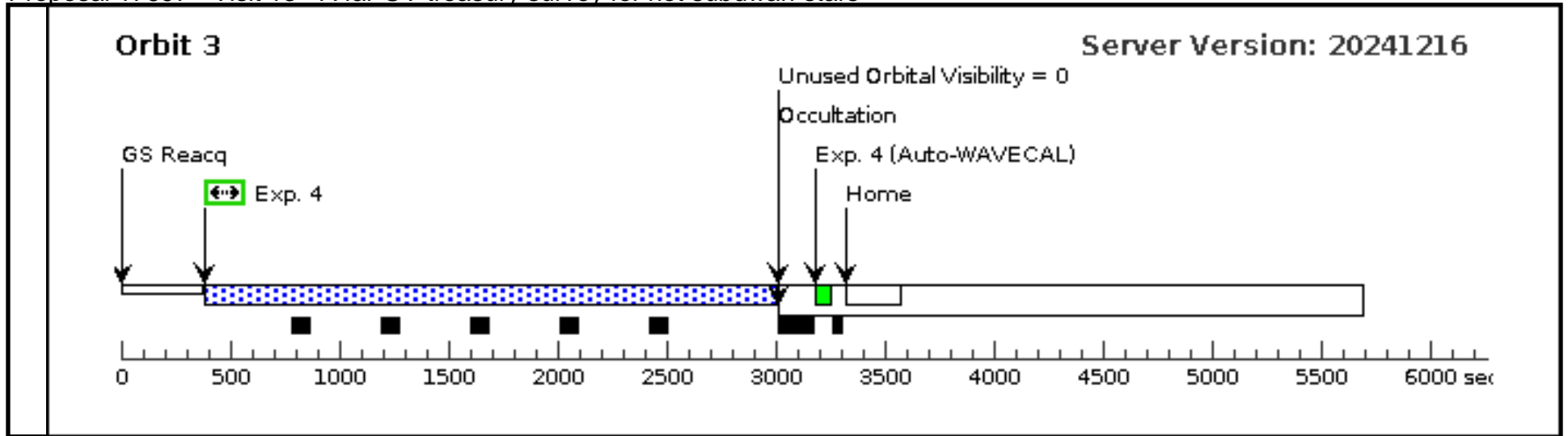


Proposal 17697 - Visit 13 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

Visit	Proposal 17697, Visit 13, completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(15)	HE-1518-0948	RA: 15 20 59.2730 (230.2469708d) Dec: -09 58 56.54 (-9.98237d) Equinox: J2000	Proper Motion RA: -14.670 mas/yr Proper Motion Dec: -6.552 mas/yr Parallax: 0.1406e-3" Epoch of Position: 2016.0	V=13.637445	Reference Frame: ICRS			
	<i>Comments:</i> Category=STAR Description=[SDO]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 1545)	(15) HE-1518-0948	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs)	
									[=>]	[1]
	2	(STIS.sp.19 31541)	(15) HE-1518-0948	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=40 8			2300 Secs (2145 Secs)	
									[=>2145.0 Secs]	[1]
3	(STIS.sp.19 31541)	(15) HE-1518-0948	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=40 8			2300 Secs (2600 Secs)		
								[=>2600.0 Secs]	[2]	
4	(STIS.sp.19 31541)	(15) HE-1518-0948	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=40 8			2300 Secs (2600 Secs)		
								[=>2600.0 Secs]	[3]	

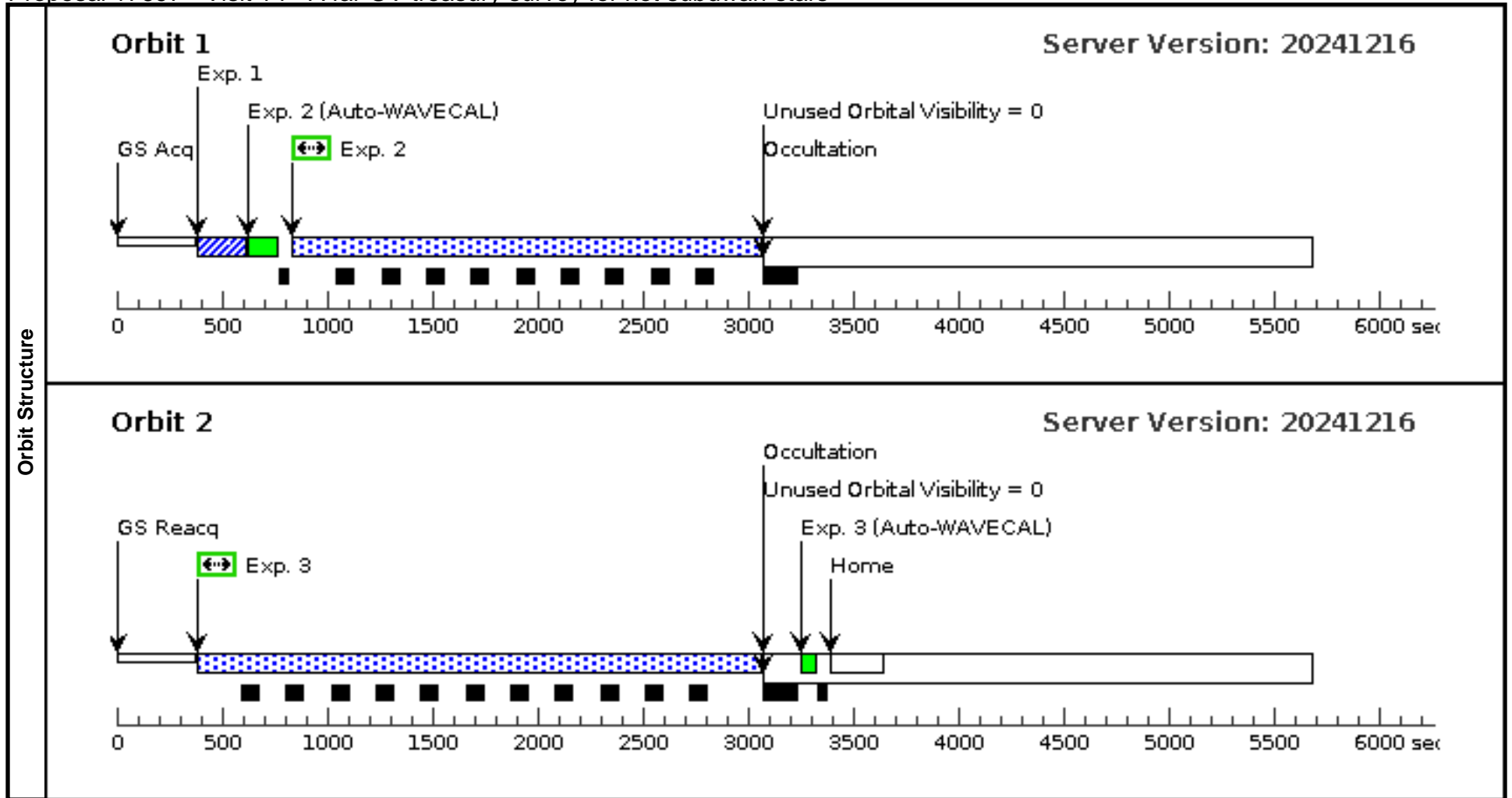




Proposal 17697 - Visit 14 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

Visit	Proposal 17697, Visit 14, completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(20)	GAIA-DR3-5369742867090186624	RA: 11 39 1.2144 (174.7550600d) Dec: -51 20 54.64 (-51.34851d) Equinox: J2000	Proper Motion RA: -21.880 mas/yr Proper Motion Dec: 3.382 mas/yr Parallax: 0.4167e-3" Epoch of Position: 2016.0	V=12.748561	Reference Frame: ICRS			
	<i>Comments:</i> Category=STAR Description=[SDO]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 1724)	(20) GAIA-DR3-5369742867090186624	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs)	
									[==>]	[1]
	2	(STIS.sp.19 31722)	(20) GAIA-DR3-5369742867090186624	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=21 3			2300 Secs (2215 Secs)	
								[==>2215.0 Secs]	[1]	
3	(STIS.sp.19 31722)	(20) GAIA-DR3-5369742867090186624	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=21 3			2300 Secs (2668 Secs)		
								[==>2668.0 Secs]	[2]	



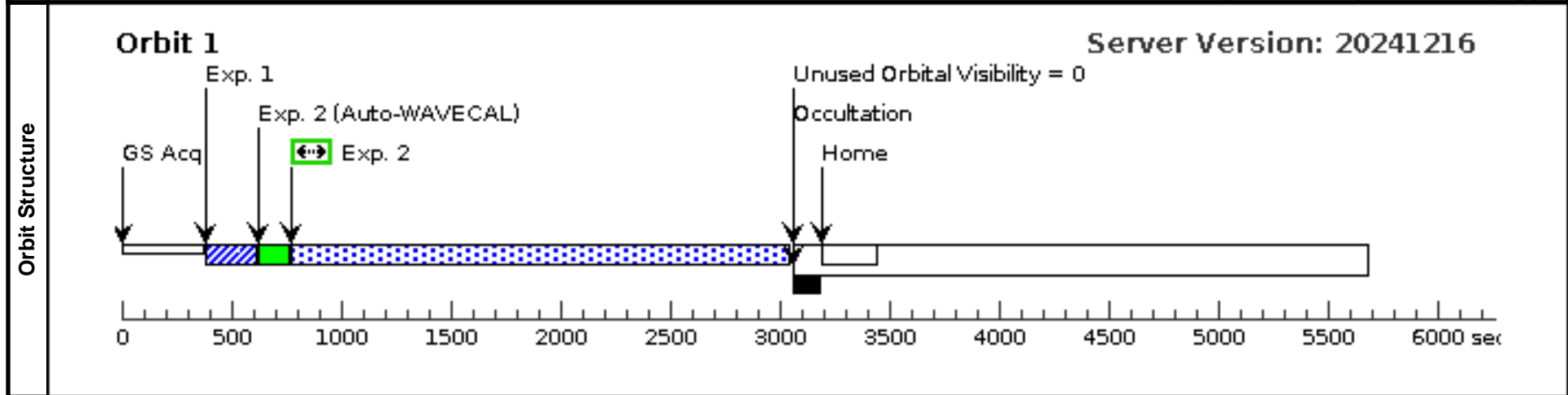
Proposal 17697 - Visit 15 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

Visit	Proposal 17697, Visit 15, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(21)	GSC-08265-00355	RA: 13 35 27.7417 (203.8655904d) Dec: -48 16 19.32 (-48.27203d) Equinox: J2000	Proper Motion RA: -9.711 mas/yr Proper Motion Dec: -1.322 mas/yr Parallax: 0.6142e-3" Epoch of Position: 2016.0	V=12.455514	Reference Frame: ICRS
	<i>Comments:</i>					
	Category=STAR Description=[POST-AGB STAR, SDO]					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 1727)	(21) GSC-08265-003 55	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs)	
									[=>]	[1]
	2	(STIS.sp.19 31725)	(21) GSC-08265-003 55	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A				2100 Secs (2257 Secs)	
									[=>2257.0 Secs]	[1]



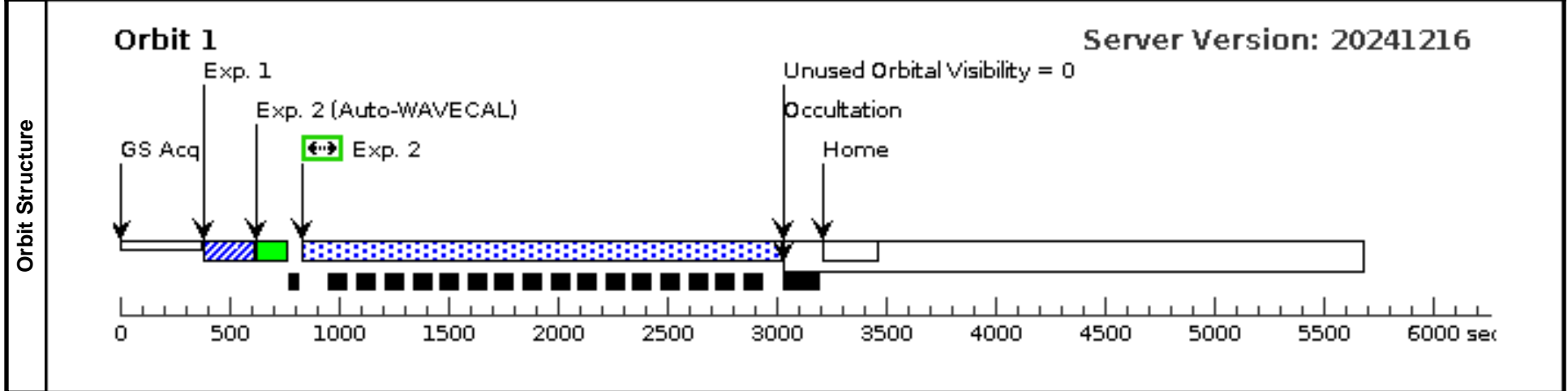
Proposal 17697 - Visit 16 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

Visit	Proposal 17697, Visit 16, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(23)	CD-30-11223	RA: 14 11 16.1617 (212.8173404d) Dec: -30 53 3.79 (-30.88439d) Equinox: J2000	Proper Motion RA: 6.053 mas/yr Proper Motion Dec: -5.848 mas/yr Parallax: 2.8198e-3" Epoch of Position: 2016.0	V=12.296151	Reference Frame: ICRS
	<i>Comments:</i>					
	Category=STAR					
	Description=[SDB]					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 1731)	(23) CD-30-11223	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs)	
									[=>]	[1]
	2	(STIS.sp.19 31728)	(23) CD-30-11223	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=12 6			2300 Secs (2171 Secs)	
									[=>2171.0 Secs]	[1]



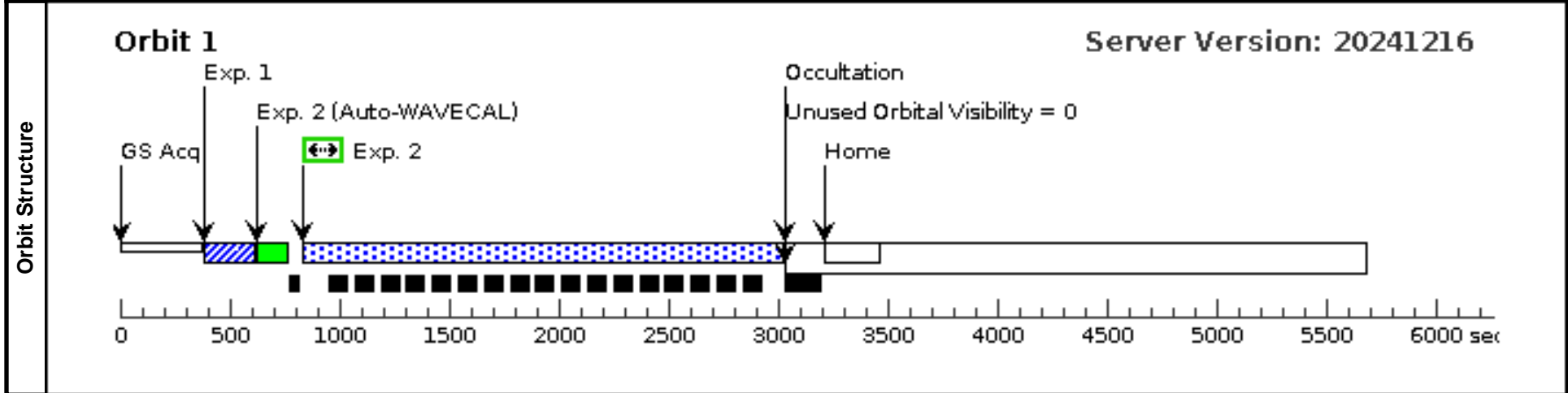
Proposal 17697 - Visit 17 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

Visit	Proposal 17697, Visit 17, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(24)	HD265435	RA: 06 53 24.2948 (103.3512283d) Dec: +33 03 34.17 (33.05949d) Equinox: J2000	Proper Motion RA: -4.58345647 mas/yr Proper Motion Dec: 2.1665779 mas/yr Parallax: 2.21585e-3" Epoch of Position: 2016.0	V=12.1	Reference Frame: ICRS
	<i>Comments:</i>					
	Category=STAR Description=[SDB]					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 1775)	(24) HD265435	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs)	
									[=>]	[1]
	2	(STIS.sp.19 31774)	(24) HD265435	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=11 8			2300 Secs (2171 Secs)	
									[=>2171.0 Secs]	[1]



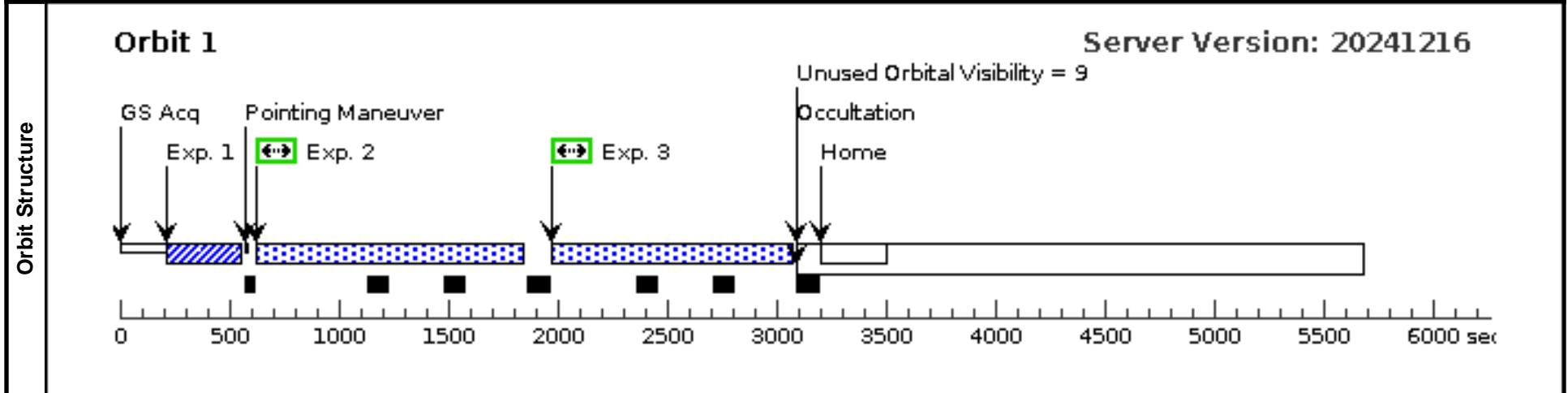
Proposal 17697 - Visit 18 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

Visit	Proposal 17697, Visit 18, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: COS/FUV, COS/NUV				
	Special Requirements: (none)				

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(25)	TIC-220490049	RA: 22 56 24.3260 (344.1013583d) Dec: -59 10 14.77 (-59.17077d) Equinox: J2000	Proper Motion RA: 13.772097 mas/yr Proper Motion Dec: -24.433296 mas/yr Parallax: 1.6162e-3" Epoch of Position: 2016.0	V=14.246133+/-0.1	Reference Frame: ICRS
<i>Comments: This is a complex system with circumstellar material or a (fairly inactive) accretion disk. The variability is minimal. The expected GALEX-FUV AB-mag is 14.09 mag (after reddening).</i>					
Category=STAR Description=[SDB] Extended=NO					

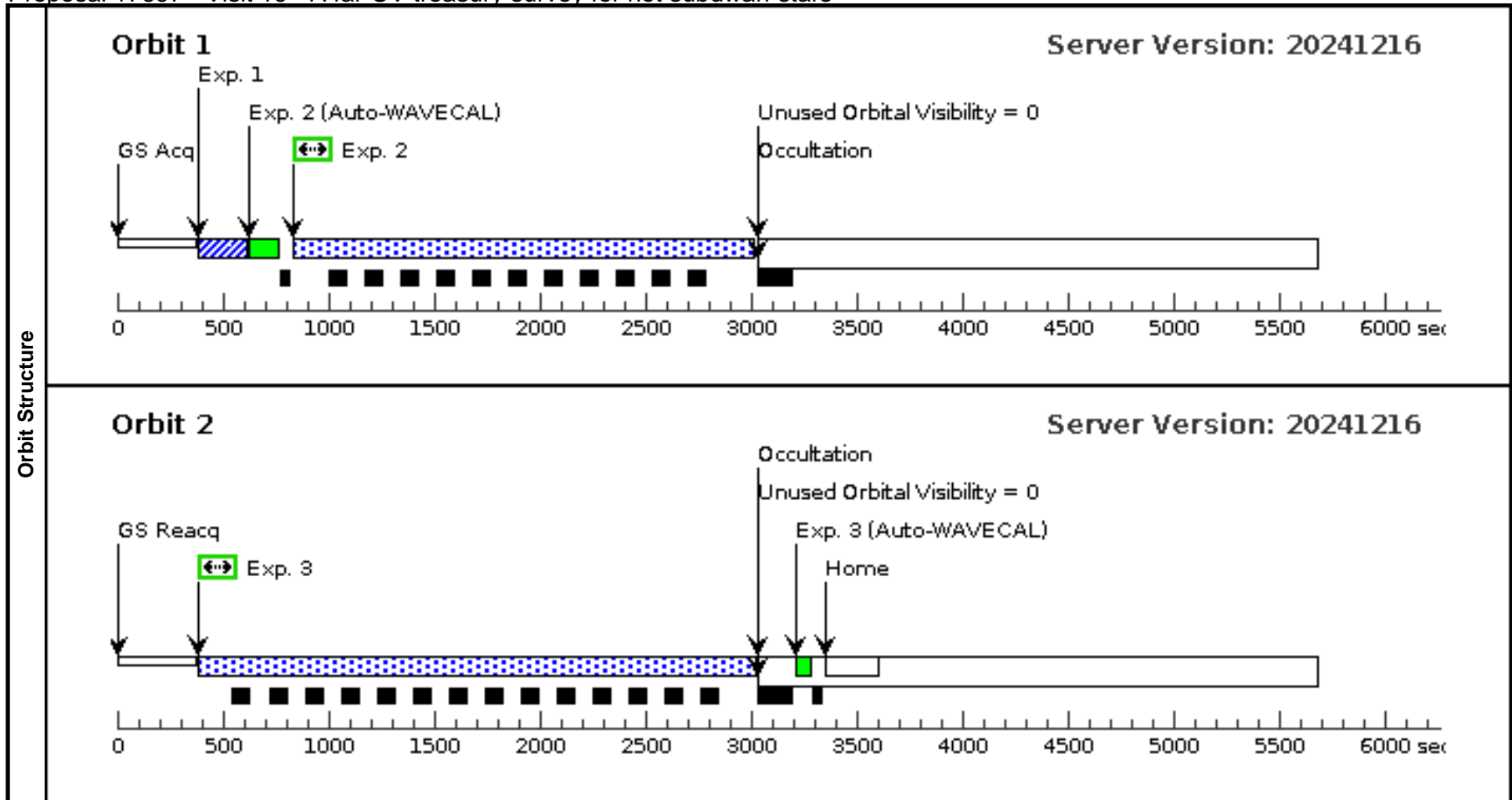
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.193 1785)	(25) TIC-220490049	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				60 Secs (60 Secs) [==>]	[1]
2	(COS.sp.193 2761)	(25) TIC-220490049	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=35 0; FP-POS=3			1000 Secs (1048 Secs) [==>1048.0 Secs]	[1]
3	(COS.sp.193 2761)	(25) TIC-220490049	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=35 0; FP-POS=4			1000 Secs (1048 Secs) [==>1048.0 Secs]	[1]



Proposal 17697 - Visit 19 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

Visit	Proposal 17697, Visit 19, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(27)	EC-05160-3050	RA: 05 17 56.5432 (79.4855967d) Dec: -30 47 49.44 (-30.79707d) Equinox: J2000	Proper Motion RA: 9.24486 mas/yr Proper Motion Dec: 12.62326 mas/yr Parallax: 1.8926e-3" Epoch of Position: 2016.0	V=13.4+/-0.05	Reference Frame: ICRS			
	<i>Comments:</i> Category=STAR Description=[SDO]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 1911)	(27) EC-05160-3050	STIS/CCD, ACQ, F28X50LP	MIRROR				1.0 Secs (1 Secs)	
									[==>]	[1]
	2	(STIS.sp.19 31909)	(27) EC-05160-3050	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=17 0			2300 Secs (2169 Secs)	
								[==>2169.0 Secs]	[1]	
3	(STIS.sp.19 31909)	(27) EC-05160-3050	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=17 0			2300 Secs (2624 Secs)		
								[==>2624.0 Secs]	[2]	



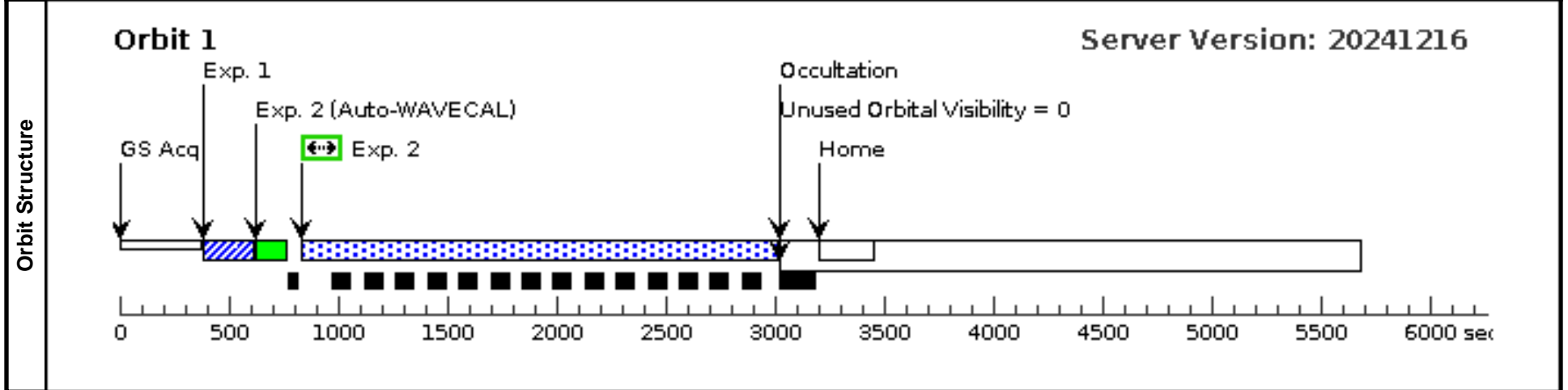
Proposal 17697 - Visit 20 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

Visit	Proposal 17697, Visit 20, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(28)	CPD-20-1123	RA: 06 06 13.4025 (91.5558437d) Dec: -20 21 7.55 (-20.35210d) Equinox: J2000	Proper Motion RA: 6.48440 mas/yr Proper Motion Dec: -17.04584 mas/yr Parallax: 3.1282e-3" Epoch of Position: 2016.0	V=12.040621	Reference Frame: ICRS
	<i>Comments:</i>					
	Category=STAR Description=[SDB]					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 1917)	(28) CPD-20-1123	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs)	
									[=>]	[1]
	2	(STIS.sp.19 31915)	(28) CPD-20-1123	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=14 4			2300 Secs (2165 Secs)	
									[=>2165.0 Secs]	[1]



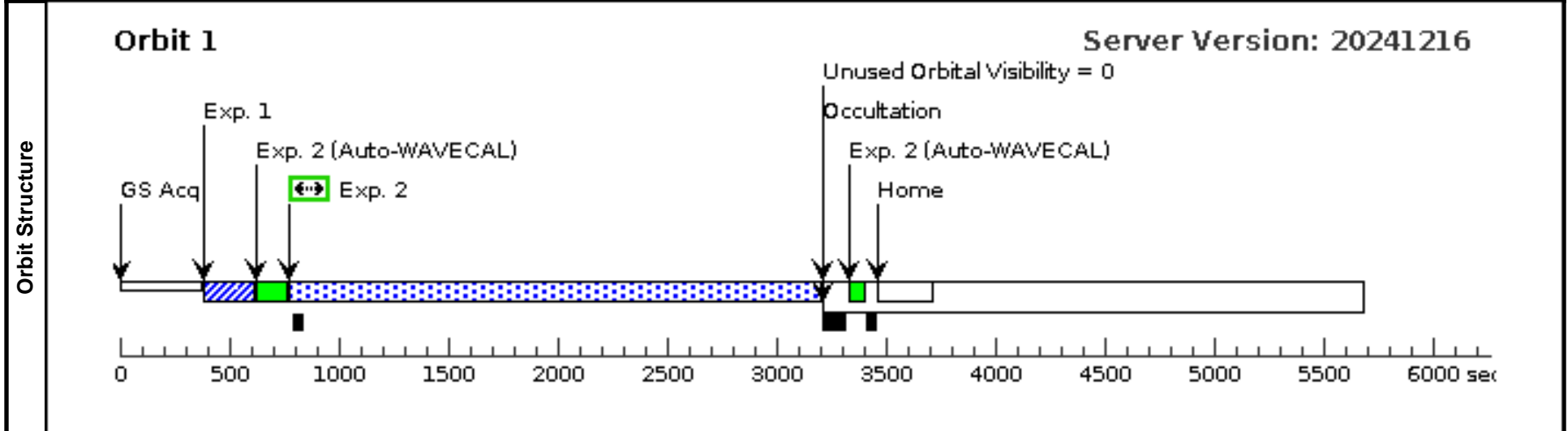
Proposal 17697 - Visit 21 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

Visit	Proposal 17697, Visit 21, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(29)	TYC-4544-2658-1	RA: 09 43 53.5335 (145.9730563d) Dec: +78 31 41.10 (78.52808d) Equinox: J2000	Proper Motion RA: 13.44975 mas/yr Proper Motion Dec: 26.62965 mas/yr Parallax: 3.9460e-3" Epoch of Position: 2016.0	V=11.17+/-0.03	Reference Frame: ICRS
	<i>Comments:</i>					
	Category=STAR Description=[SDB]					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 1924)	(29) TYC-4544-2658 -1	STIS/CCD, ACQ, F28X50LP	MIRROR				0.3 Secs (0.3 Secs)	
									[=>]	[1]
	2	(STIS.sp.19 31920)	(29) TYC-4544-2658 -1	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A				2300 Secs (2415 Secs)	
									[=>2415.0 Secs]	[1]



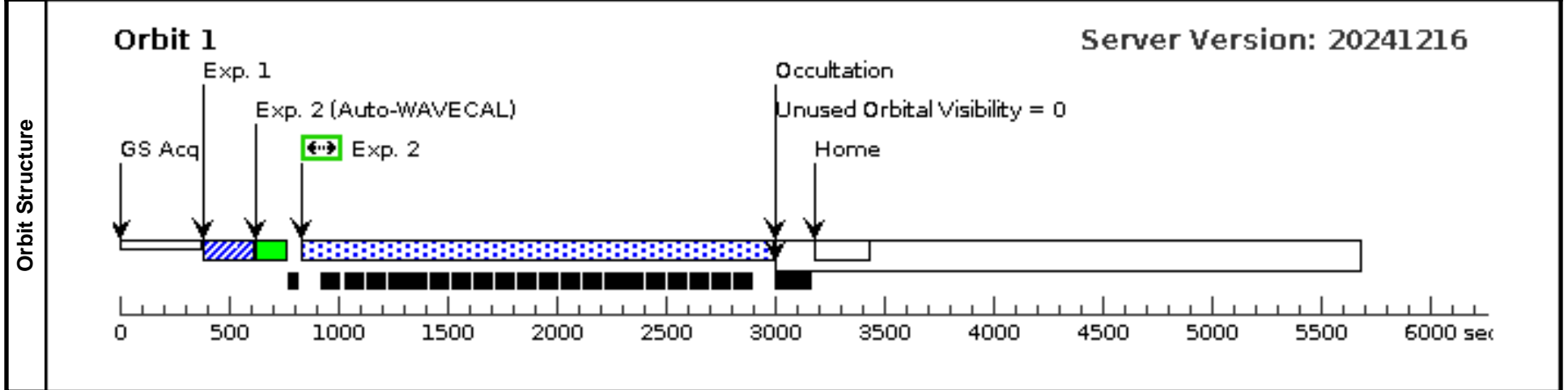
Proposal 17697 - Visit 22 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

Visit	Proposal 17697, Visit 22, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(30)	FEIGE-11	RA: 01 04 21.6863 (16.0903596d) Dec: +04 13 36.58 (4.22683d) Equinox: J2000	Proper Motion RA: 10.82814 mas/yr Proper Motion Dec: -29.55334 mas/yr Parallax: 2.9888e-3" Epoch of Position: 2016.0	V=12.09+/-0.02	Reference Frame: ICRS
	<i>Comments:</i>					
	Category=STAR					
	Description=[SDB]					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 1932)	(30) FEIGE-11	STIS/CCD, ACQ, F28X50LP	MIRROR				0.4 Secs (0.4 Secs)	
									[=>]	[1]
	2	(STIS.sp.19 31928)	(30) FEIGE-11	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=99			2300 Secs (2144 Secs)	
									[=>2144.0 Secs]	[1]



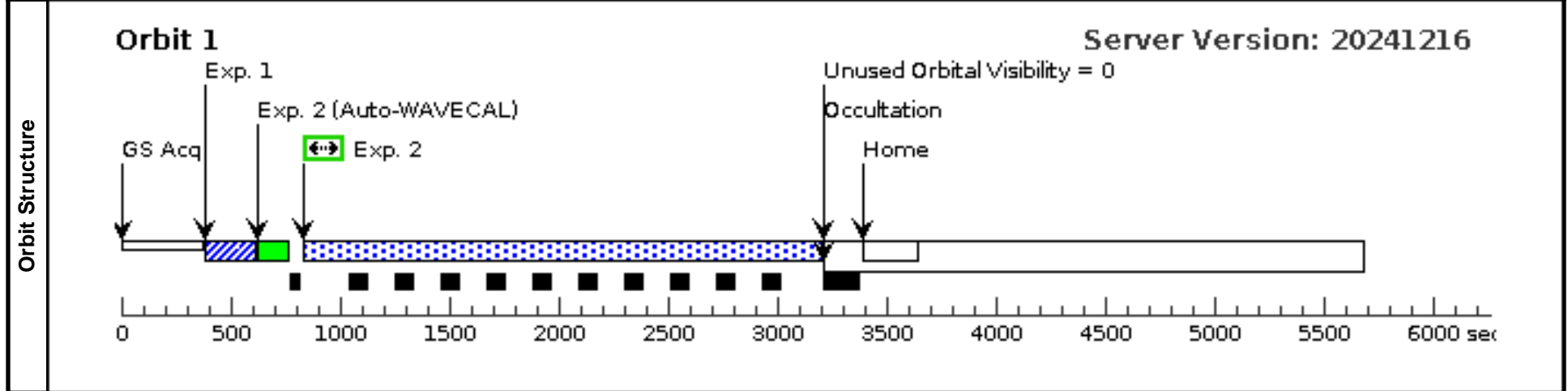
Proposal 17697 - Visit 23 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

Visit	Proposal 17697, Visit 23, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(31)	JL87	RA: 21 48 37.7332 (327.1572217d) Dec: -76 20 44.56 (-76.34571d) Equinox: J2000	Proper Motion RA: -0.43597 mas/yr Proper Motion Dec: 3.26294 mas/yr Parallax: 1.2752e-3" Epoch of Position: 2016.0	V=11.989048	Reference Frame: ICRS
	<i>Comments:</i>					
	Category=STAR Description=[SDB]					

Exposures	#	Label (ETC Run)	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 1950)	(31) JL87	STIS/CCD, ACQ, F28X50LP	MIRROR				0.4 Secs (0.4 Secs)	
									[=>]	[1]
	2	(STIS.sp.19 31944)	(31) JL87	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=21 0			2300 Secs (2357 Secs)	
									[=>2357.0 Secs]	[1]



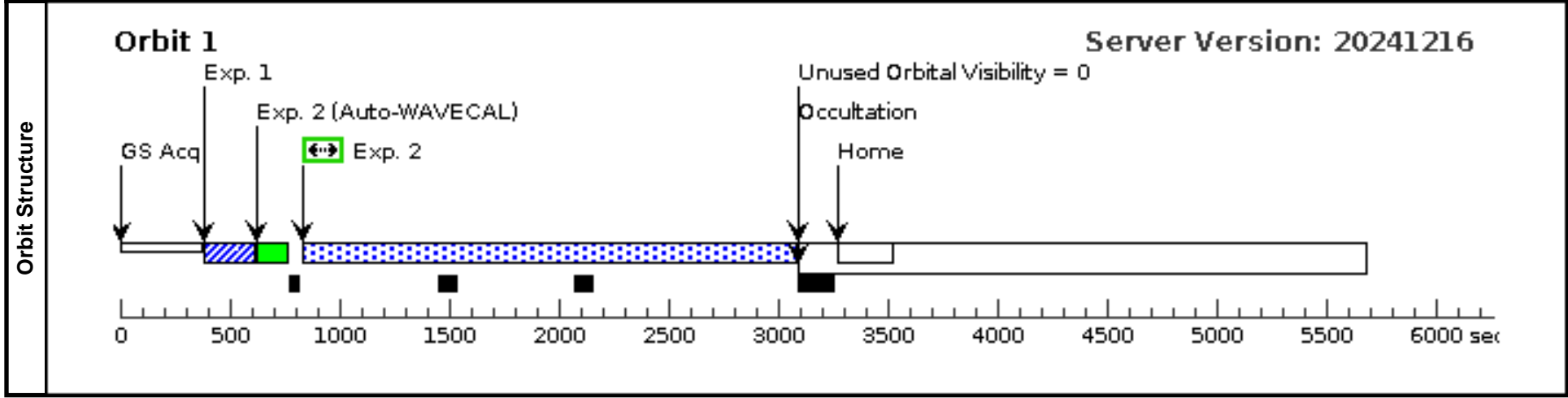
Proposal 17697 - Visit 24 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

Visit	Proposal 17697, Visit 24, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(32)	BPS-CS-22940-0009	RA: 20 30 20.1748 (307.5840617d) Dec: -59 50 39.52 (-59.84431d) Equinox: J2000	Proper Motion RA: 2.52846 mas/yr Proper Motion Dec: -10.79381 mas/yr Parallax: 0.4697e-3" Epoch of Position: 2016.0	V=14.05+/-0.02	Reference Frame: ICRS
	<i>Comments:</i> Category=STAR Description=[SDO] Extended=NO					

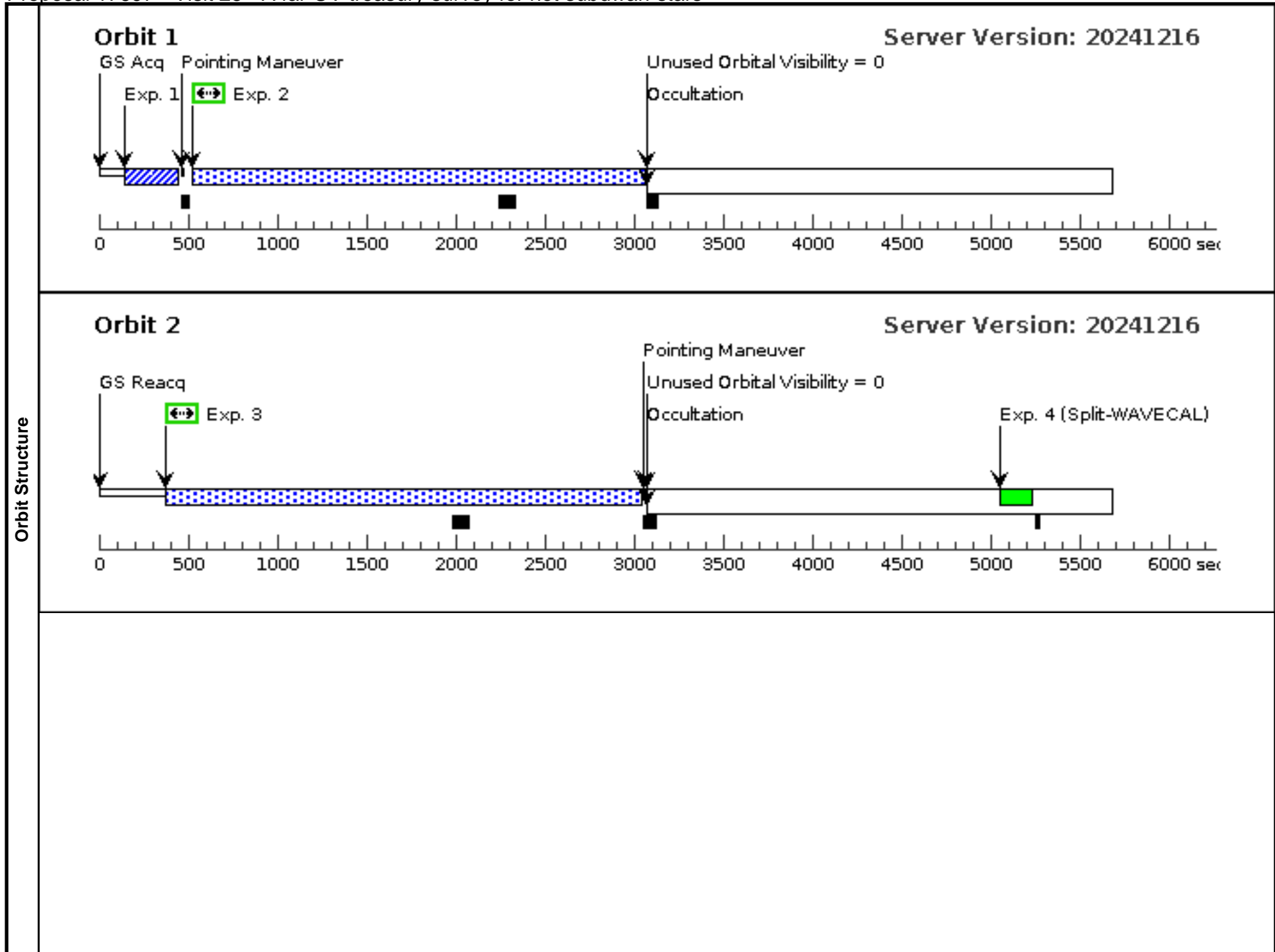
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 5337)	(32) BPS-CS-22940-0009	STIS/CCD, ACQ, F28X50LP	MIRROR				1.0 Secs (1 Secs) [==>]	[1]
	2	(STIS.sp.19 35335)	(32) BPS-CS-22940-0009	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=61 7			1000 Secs (2234 Secs) [==>2234.0 Secs]	[1]

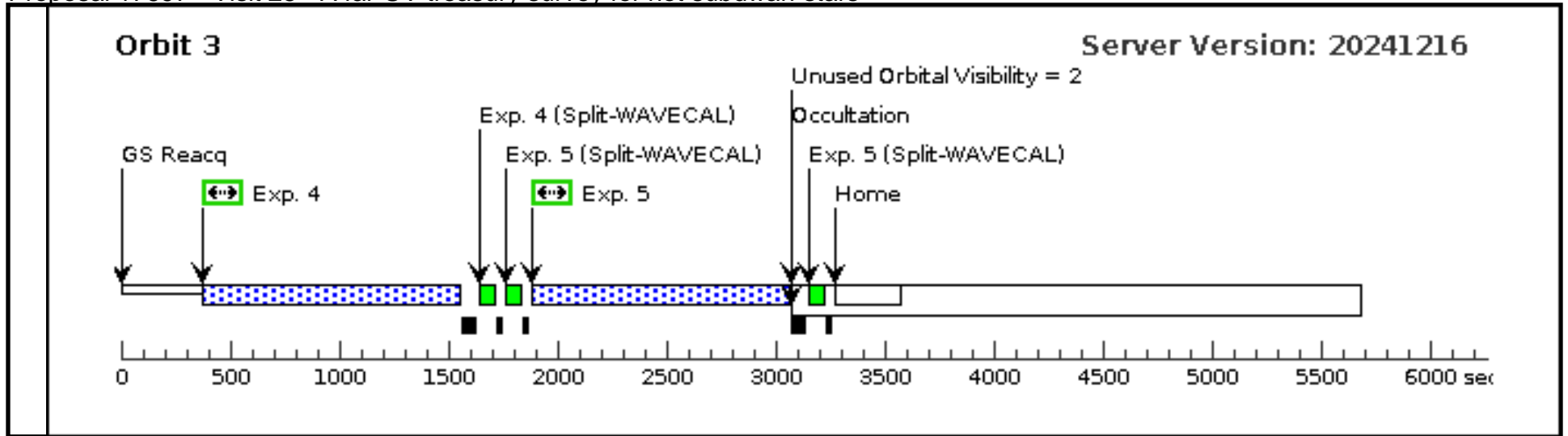


Proposal 17697 - Visit 25 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:05 GMT 2025

Visit	Proposal 17697, Visit 25, completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(33)	DY-CEN	RA: 13 25 34.0739 (201.3919746d) Dec: -54 14 43.13 (-54.24531d) Equinox: J2000	Proper Motion RA: -5.91963 mas/yr Proper Motion Dec: -0.29675 mas/yr Parallax: 0.0822e-3" Epoch of Position: 2016.0	V=13.352+/-0.1	Reference Frame: ICRS			
	<i>Comments: DY Cen is a pulsator, but the amplitude is low (<0.1mag in the optical). The star is reddened (E(B-V)~0.5mag) and therefore fainter in the FUV than in the optical despite its high Teff (25,000K).</i> Category=STAR Description=[B0-B2 III-I, PULSATING VARIABLE] 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.194 3329)	(33) DY-CEN	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				7 Secs (7 Secs) [==>]	[1]
	2	(COS.sp.194 3323)	(33) DY-CEN	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=15 71; FP-POS=3			2000 Secs (2371 Secs) [==>2371.0 Secs]	[1]
	3	(COS.sp.194 3323)	(33) DY-CEN	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=15 71; FP-POS=4			2000 Secs (2614 Secs) [==>2614.0 Secs]	[2]
	4	(COS.sp.194 3324)	(33) DY-CEN	COS/FUV, TIME-TAG, PSA	G160M 1577 A	SEGMENT=BOTH; BUFFER-TIME=22 70; FP-POS=1			1128 Secs (1128 Secs) [==>]	[3]
	5	(COS.sp.194 3324)	(33) DY-CEN	COS/FUV, TIME-TAG, PSA	G160M 1577 A	SEGMENT=BOTH; BUFFER-TIME=22 70; FP-POS=4			1128 Secs (1128 Secs) [==>]	[3]





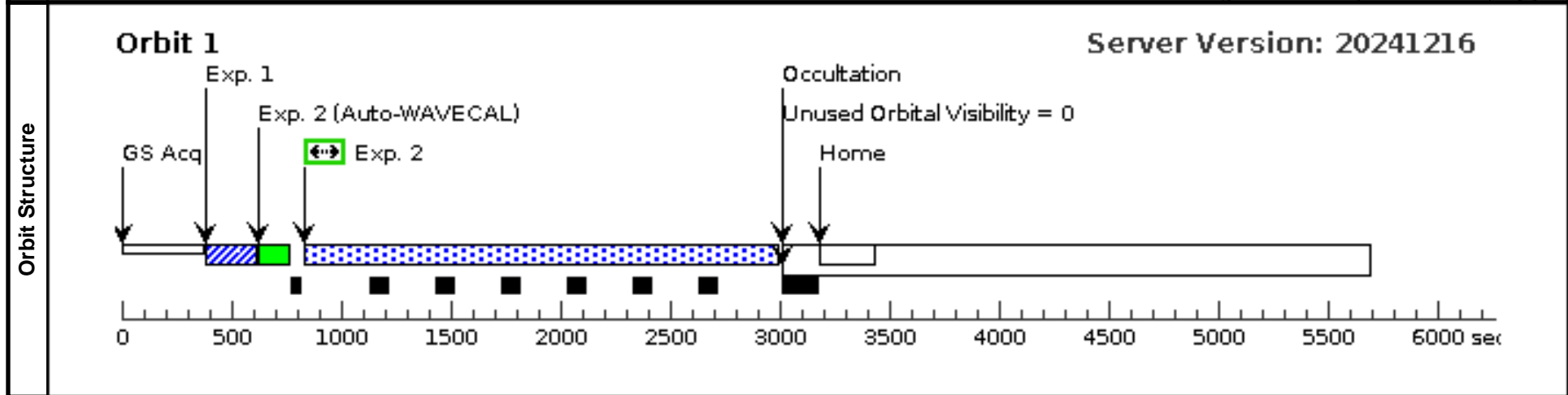
Proposal 17697 - Visit 26 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:06 GMT 2025

Visit	Proposal 17697, Visit 26, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(34)	LS-IV-+06-2	RA: 18 06 55.4490 (271.7310375d) Dec: +06 21 57.11 (6.36586d) Equinox: J2000	Proper Motion RA: -3.00541 mas/yr Proper Motion Dec: -8.83933 mas/yr Parallax: 0.6262e-3" Epoch of Position: 2016.0	V=11.9+/-0.05	Reference Frame: ICRS
	<i>Comments: The pulsation is low-amplitude.</i>					
	Category=STAR Description=[PULSATING VARIABLE, SDO]					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 2462)	(34) LS-IV-+06-2	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs)	
									[=>]	[1]
	2	(STIS.sp.19 32460)	(34) LS-IV-+06-2	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=30 0			2300 Secs (2147 Secs)	
									[=>2147.0 Secs]	[1]



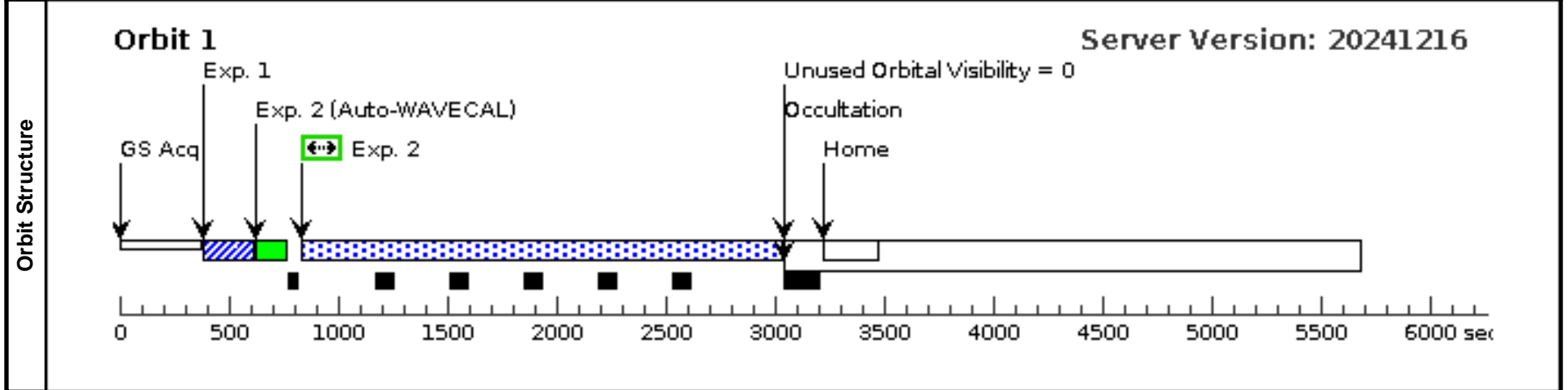
Proposal 17697 - Visit 27 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:06 GMT 2025

Visit	Proposal 17697, Visit 27, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(35)	EC-19529-4430	RA: 19 56 30.7315 (299.1280479d) Dec: -44 22 18.99 (-44.37194d) Equinox: J2000	Proper Motion RA: -6.80304 mas/yr Proper Motion Dec: -13.22160 mas/yr Parallax: 0.2118e-3" Epoch of Position: 2016.0	V=11.86+/-0.05	Reference Frame: ICRS
	<i>Comments:</i>					
	Category=STAR					
	Description=[B3-B5 III-I]					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 2466)	(35) EC-19529-4430	STIS/CCD, ACQ, F28X50LP	MIRROR				0.3 Secs (0.3 Secs)	
									[=>]	[1]
	2	(STIS.sp.19 32463)	(35) EC-19529-4430	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=34 0			2300 Secs (2188 Secs)	
									[=>2188.0 Secs]	[1]



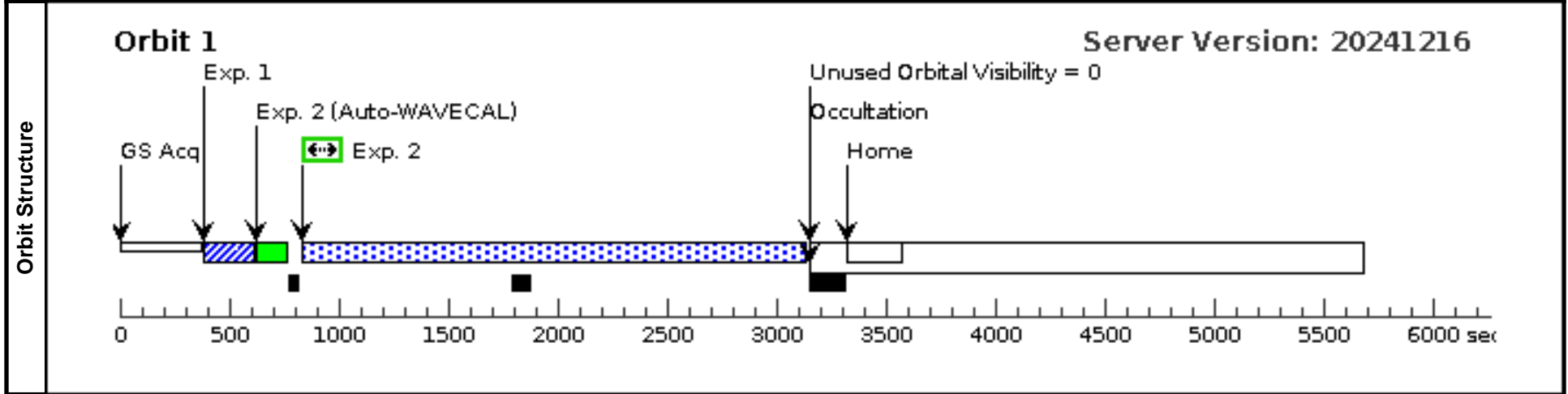
Proposal 17697 - Visit 28 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:06 GMT 2025

Visit	Proposal 17697, Visit 28, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(36)	BX-CIR	RA: 14 01 36.4610 (210.4019208d) Dec: -66 09 56.13 (-66.16559d) Equinox: J2000	Proper Motion RA: -8.34124 mas/yr Proper Motion Dec: 2.22304 mas/yr Parallax: 0.3060e-3" Epoch of Position: 2016.0	V=12.62+/-0.07	Reference Frame: ICRS
	<i>Comments: The pulsation semiamplitude is about 0.05 mag in the red optical.</i> Category=STAR Description=[B0-B2 III-I, PULSATING VARIABLE] Extended=NO					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 5298)	(36) BX-CIR	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs) [==>]	[1]
	2	(STIS.sp.19 35296)	(36) BX-CIR	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=96 0			900 Secs (2288 Secs) [==>2288.0 Secs]	[1]



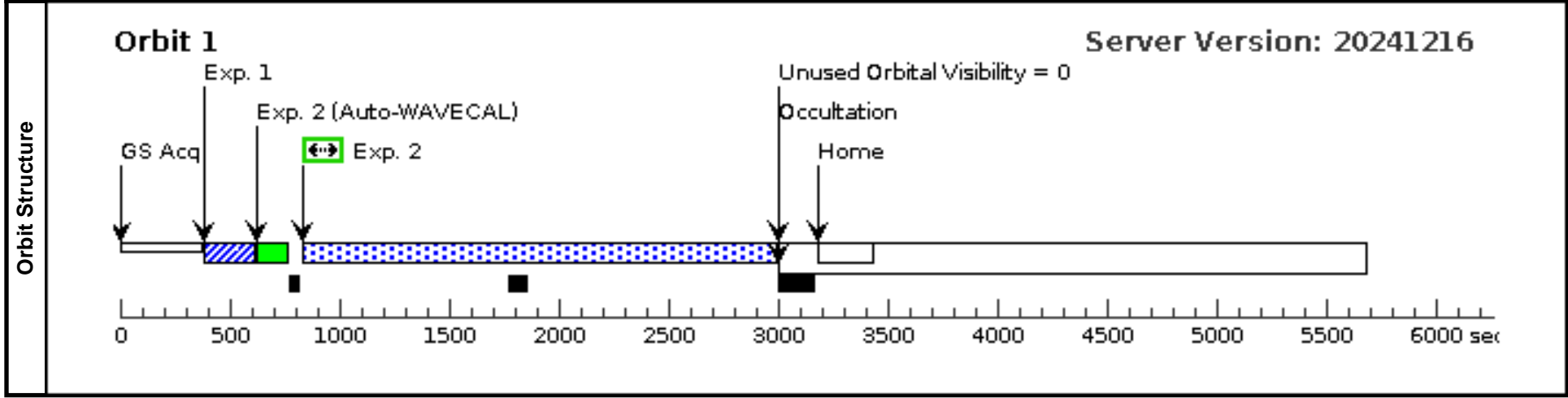
Proposal 17697 - Visit 29 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:06 GMT 2025

Visit	Proposal 17697, Visit 29, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(37)	BPS-BS-16981-0016	RA: 14 33 30.8630 (218.3785958d) Dec: -01 14 42.97 (-1.24527d) Equinox: J2000	Proper Motion RA: -5.37801 mas/yr Proper Motion Dec: -0.20364 mas/yr Parallax: 1.0546e-3" Epoch of Position: 2016.0	V=14.299598	Reference Frame: ICRS
	<i>Comments:</i> Category=STAR Description=[SDB] Extended=NO					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 5295)	(37) BPS-BS-16981-0016	STIS/CCD, ACQ, F28X50LP	MIRROR				1.0 Secs (1 Secs) [==>]	[1]
	2	(STIS.sp.19 35289)	(37) BPS-BS-16981-0016	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=93 6			850 Secs (2140 Secs) [==>2140.0 Secs]	[1]



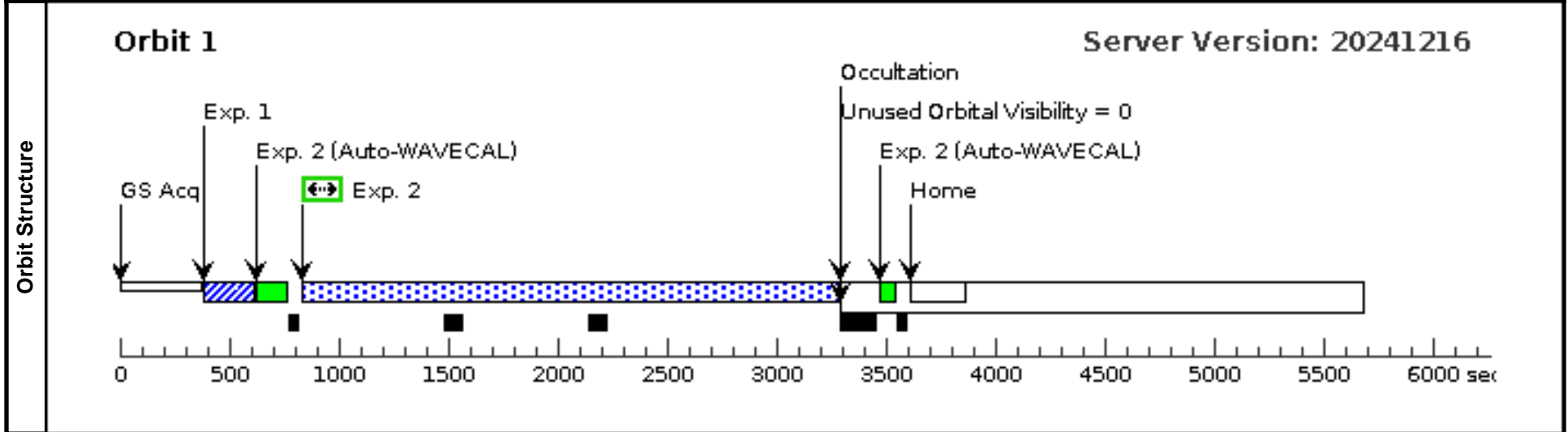
Proposal 17697 - Visit 30 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:06 GMT 2025

Visit	Proposal 17697, Visit 30, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(38)	UCAC4-024-005294	RA: 12 30 21.8602 (187.5910842d) Dec: -85 14 8.29 (-85.23564d) Equinox: J2000	Proper Motion RA: -0.26484 mas/yr Proper Motion Dec: -16.69846 mas/yr Parallax: 1.2742e-3" Epoch of Position: 2016.0	V=13.828005	Reference Frame: ICRS
	<i>Comments:</i> Category=STAR Description=[SDB] Extended=NO					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 5339)	(38) UCAC4-024-00 5294	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	(STIS.sp.19 35338)	(38) UCAC4-024-00 5294	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=65 1			850 Secs (2430 Secs) [==>2430.0 Secs]	[1]



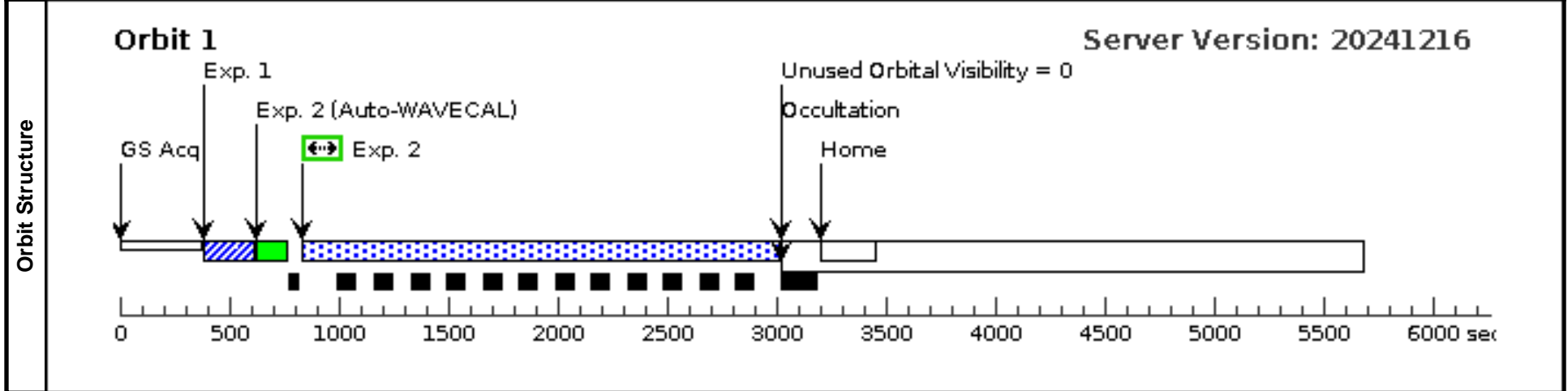
Proposal 17697 - Visit 31 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:06 GMT 2025

Visit	Proposal 17697, Visit 31, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(39)	FEIGE-36	RA: 11 04 31.6128 (166.1317200d) Dec: +24 39 42.98 (24.66194d) Equinox: J2000	Proper Motion RA: -26.91040 mas/yr Proper Motion Dec: 18.48293 mas/yr Parallax: 2.3116e-3" Epoch of Position: 2016.0	V=12.722882	Reference Frame: ICRS
	<i>Comments:</i>					
	Category=STAR Description=[SDB]					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 2501)	(39) FEIGE-36	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs)	
									[=>]	[1]
	2	(STIS.sp.19 32499)	(39) FEIGE-36	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=16 5			2300 Secs (2165 Secs)	
									[=>2165.0 Secs]	[1]



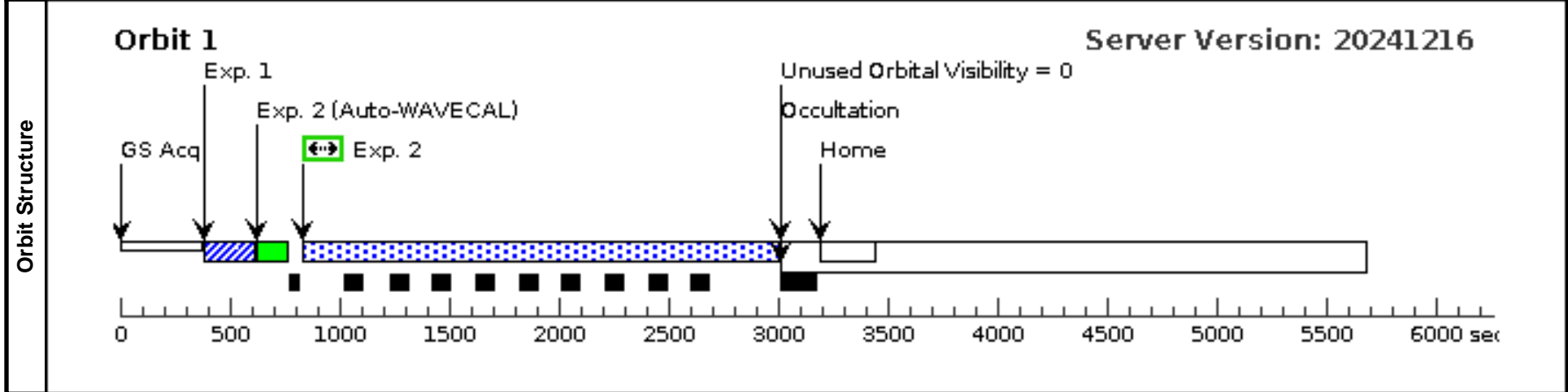
Proposal 17697 - Visit 32 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:06 GMT 2025

Visit	Proposal 17697, Visit 32, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(40)	GALEX-J080510.9-105834	RA: 08 05 10.8145 (121.2950604d) Dec: -10 58 35.87 (-10.97663d) Equinox: J2000	Proper Motion RA: -22.83086 mas/yr Proper Motion Dec: -27.89200 mas/yr Parallax: 4.7796e-3" Epoch of Position: 2016.0	V=12.22739	Reference Frame: ICRS
	<i>Comments:</i>					
	Category=STAR					
	Description=[SDB]					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 2528)	(40) GALEX-J08051 0.9-105834	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs)	
									[=>]	[1]
	2	(STIS.sp.19 32525)	(40) GALEX-J08051 0.9-105834	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=19 7			2300 Secs (2152 Secs)	
									[=>2152.0 Secs]	[1]



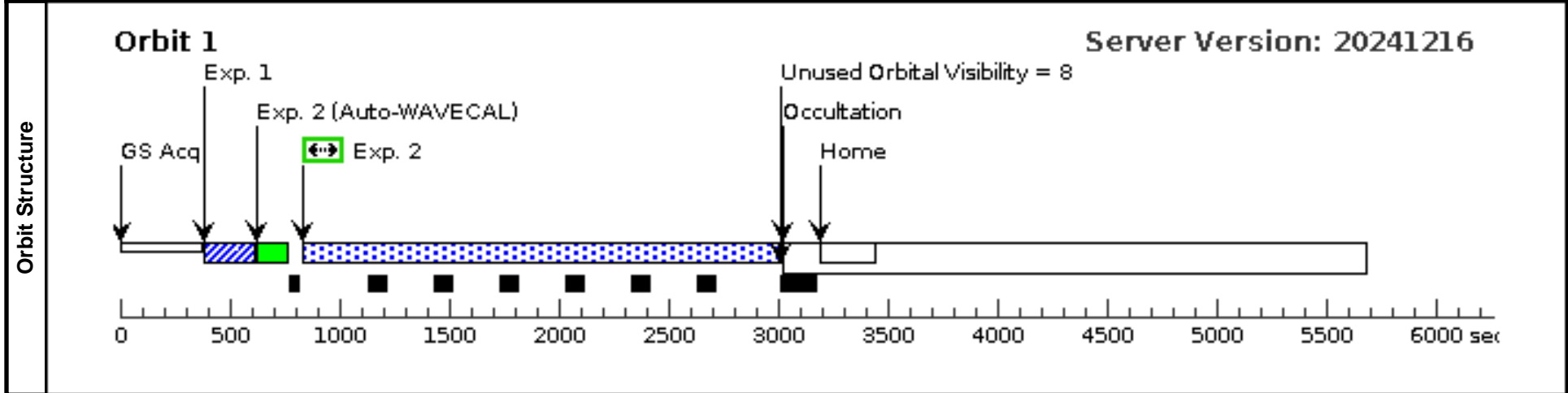
Proposal 17697 - Visit 33 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:06 GMT 2025

Visit	Proposal 17697, Visit 33, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(41)	EC-22081-1916	RA: 22 10 52.8870 (332.7203625d) Dec: -19 01 49.83 (-19.03051d) Equinox: J2000	Proper Motion RA: 17.49234 mas/yr Proper Motion Dec: -12.31093 mas/yr Parallax: 1.0179e-3" Epoch of Position: 2016.0	V=12.919855	Reference Frame: ICRS
	<i>Comments:</i>					
	Category=STAR Description=[SDB]					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 2533)	(41) EC-22081-1916	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs)	
									[=>]	[1]
	2	(STIS.sp.19 32532)	(41) EC-22081-1916	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=30 0			2300 Secs (2152 Secs)	
									[=>2152.0 Secs]	[1]



Proposal 17697 - Visit 34 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:06 GMT 2025

Visit	Proposal 17697, Visit 34, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

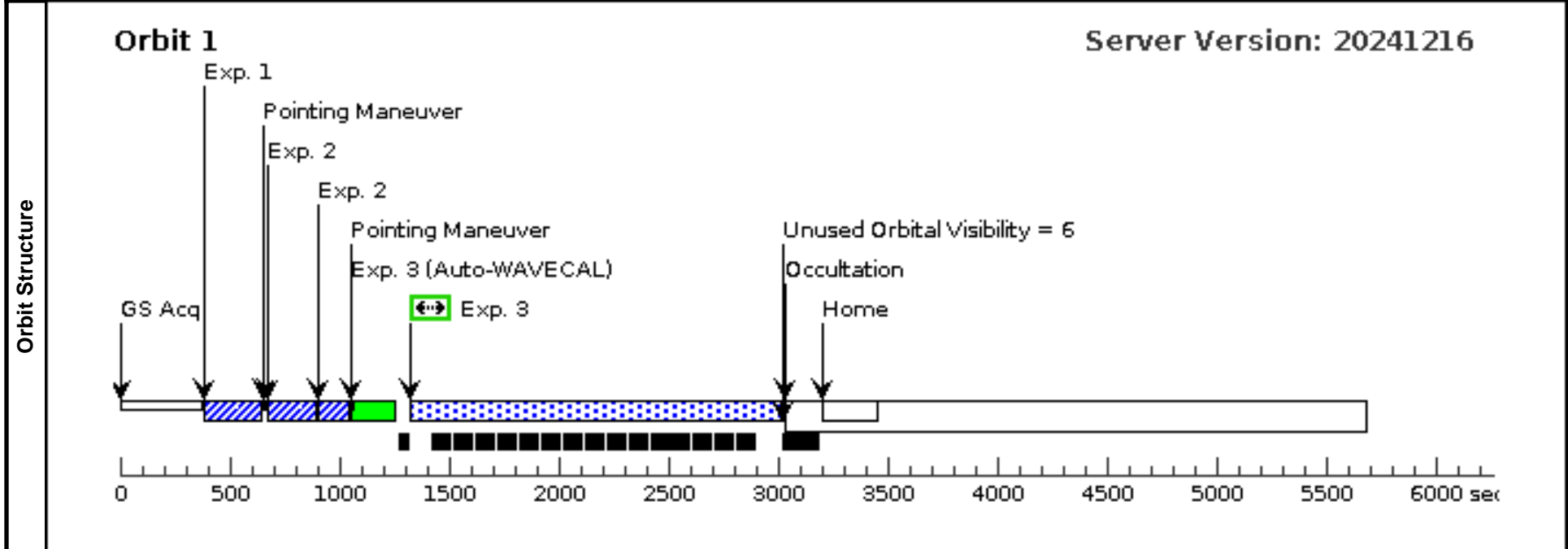
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(42)	HD-133729	RA: 15 06 58.9187 (226.7454946d) Dec: -31 38 38.95 (-31.64415d) Equinox: J2000	Proper Motion RA: -10.68953 mas/yr Proper Motion Dec: 0.90993 mas/yr Parallax: 2.1656e-3" Epoch of Position: 2016.0	V=9.166+/-0.06	Reference Frame: ICRS

Comments: This star is claimed to be a binary with bright MS-B type companion by Pigulski et al. (2022A&A...663A..62). They claim that the star has a bright MS B-type companion (11500K) that outshines the target, a BLAP-type sdB (29000K), in the optical. BLAPs are blue large amplitude pulsators. The variation in the optical is only 3.2% (or 0.04mag), due to the contribution of the MS-B type. In this scenario, the target would be expected to be variable at roughly 40% in the far-UV.

However, our more recent analysis seems to suggest that a single bright component suffices to model HD133729. This means that the far-UV variability would be much smaller. In any case, the far-UV flux level is constrained by TD1 observations: in the Galex-FUV band about 10.13mag. The target is save for STIS.

Category=STAR
Description=[SDB]

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	(STIS.ta.193 2544)	(42) HD-133729	STIS/CCD, ACQ, F28X500II	MIRROR					1 Secs (1 Secs)	
										[==>]	[1]
	2	(STIS.ta.194 1724)	(42) HD-133729	STIS/CCD, ACQ/PEAK, 0.2X0.06	MIRROR					0.1 Secs (0.1 Secs)	
									[==>]	[1]	
3	(STIS.sp.19 41673)	(42) HD-133729	STIS/FUV-MAMA, TIME-TAG, 0.2X0.09	E140H 1343 A	BUFFER-TIME=99				1670 Secs (1670 Secs)		
									[==>]	[1]	



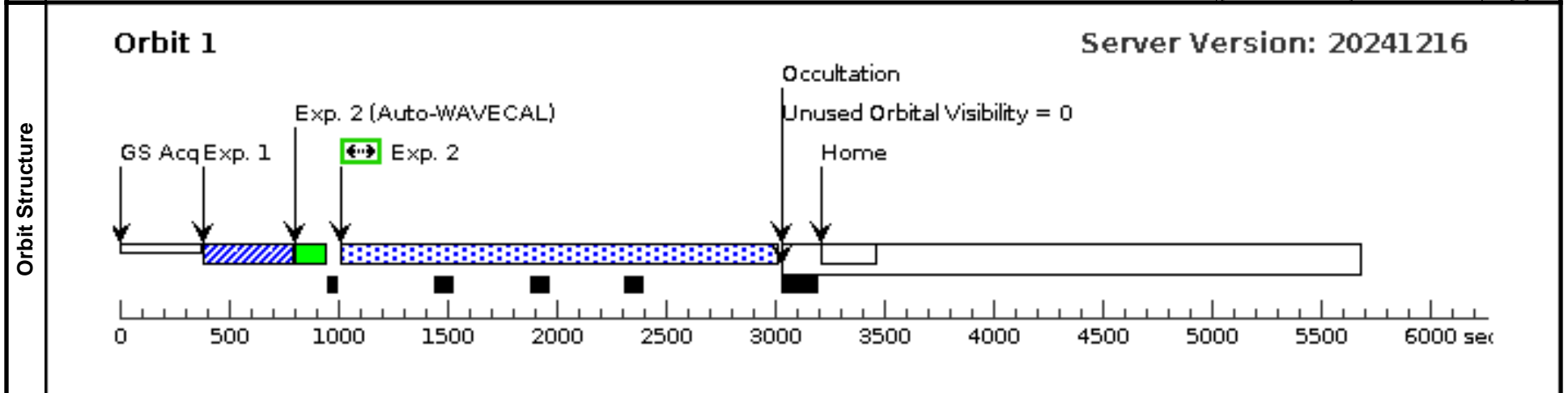
Proposal 17697 - Visit 35 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:06 GMT 2025

Visit	Proposal 17697, Visit 35, failed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(44)	TON-139	RA: 12 56 4.8834 (194.0203475d) Dec: +28 07 19.53 (28.12209d) Equinox: J2000	Proper Motion RA: -11.06 mas/yr Proper Motion Dec: 0.44 mas/yr Parallax: 1.71e-3" Epoch of Position: 2016.0	V=13.236302	Reference Frame: ICRS
<p><i>Comments: The sdB component of Ton 139 has a visual companion at a separation of 0.32 arcsec, as resolved by HST-WFPC2 F675W (Heber et al. 2002A&A...383..938H). The companion is a F-type MS star and will not contribute to the FUV flux.</i></p> <p><i>In Fig. 1 of Heber et al., both stars are of similar brightness; the target is the slightly fainter one. The same will be the case for the acquisition image.</i></p> <p>Category=STAR Description=[SDB] Extended=NO</p>						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 2949)	(44) TON-139	STIS/CCD, ACQ, F28X500II	MIRROR					38 Secs (38 Secs) [==>]
2	(STIS.sp.19 32897)	(44) TON-139	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=43 3				2300 Secs (1988 Secs) [==>1988.0 Secs]	[1]



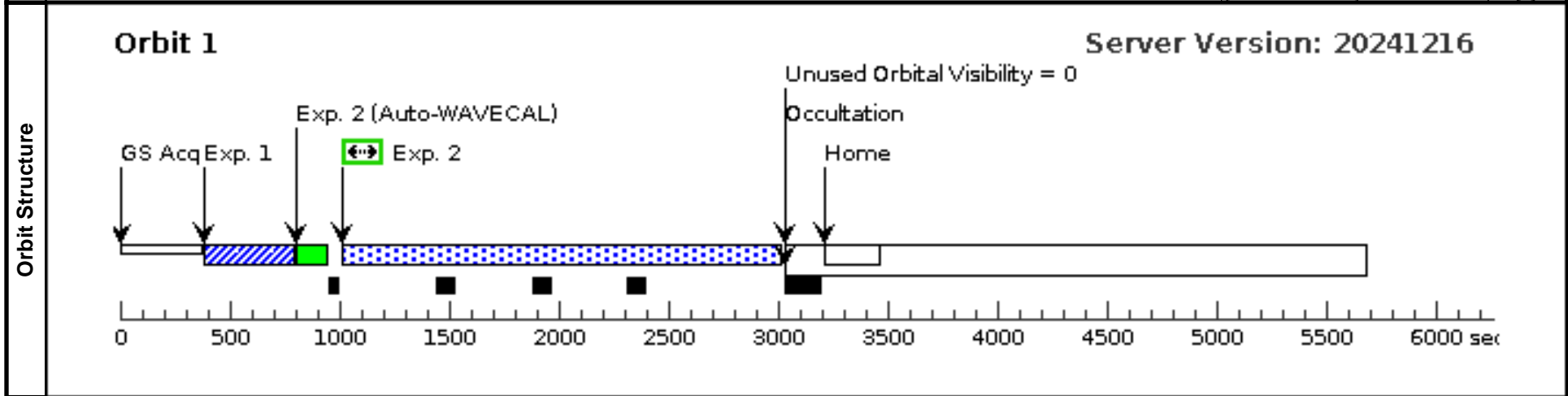
Proposal 17697 - HOPR (Z5) - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:06 GMT 2025

Visit	Proposal 17697, HOPR (Z5)				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				
<i>Comments: This is a HOPR repeat for failed 35</i>					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(44)	TON-139	RA: 12 56 4.8834 (194.0203475d) Dec: +28 07 19.53 (28.12209d) Equinox: J2000	Proper Motion RA: -11.06 mas/yr Proper Motion Dec: 0.44 mas/yr Parallax: 1.71e-3" Epoch of Position: 2016.0	V=13.236302	Reference Frame: ICRS
<i>Comments: The sdB component of Ton 139 has a visual companion at a separation of 0.32 arcsec, as resolved by HST-WFPC2 F675W (Heber et al. 2002A&A...383..938H). The companion is a F-type MS star and will not contribute to the FUV flux.</i>						
<i>In Fig. 1 of Heber et al., both stars are of similar brightness; the target is the slightly fainter one. The same will be the case for the acquisition image.</i>						
Category=STAR Description=[SDB] Extended=NO						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 2949)	(44) TON-139	STIS/CCD, ACQ, F28X500II	MIRROR					38 Secs (38 Secs) [==>]
2	(STIS.sp.19 32897)	(44) TON-139	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=43 3				2300 Secs (1988 Secs) [==>1988.0 Secs]	[1]



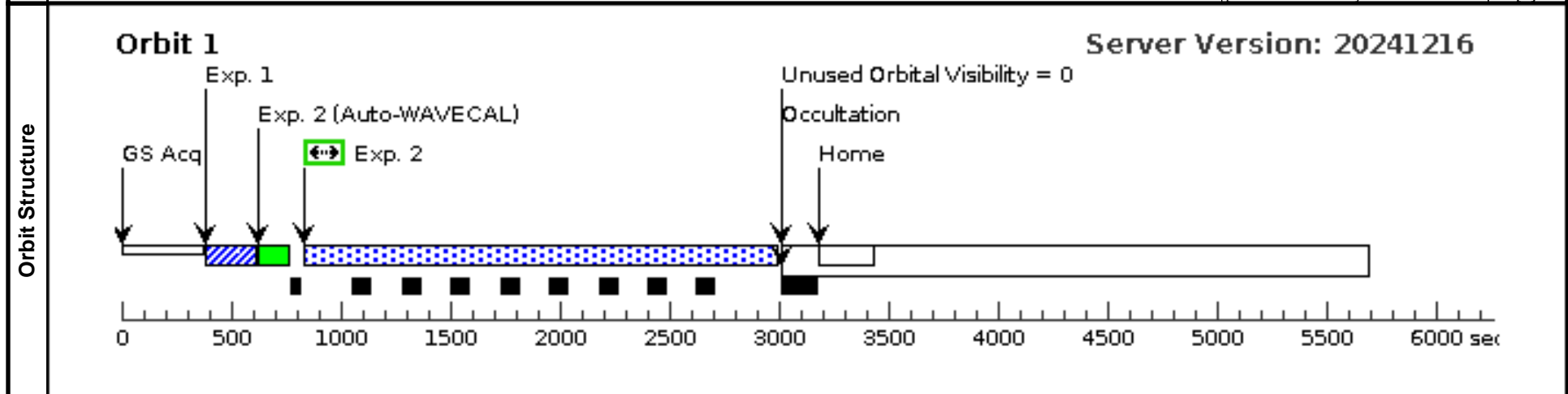
Proposal 17697 - Visit 36 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:06 GMT 2025

Visit	Proposal 17697, Visit 36, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(45)	PB8783	RA: 01 23 43.2520 (20.9302167d) Dec: -05 05 45.98 (-5.09611d) Equinox: J2000	Proper Motion RA: 4.59522 mas/yr Proper Motion Dec: -9.54447 mas/yr Parallax: 1.3910e-3" Epoch of Position: 2016.0	V=12.218917	Reference Frame: ICRS
	<i>Comments:</i> Category=STAR Description=[COMPOSITE SPECTRAL TYPE, SDO] Extended=NO					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 2565)	(45) PB8783	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs) [==>]	[1]
	2	(STIS.sp.19 32563)	(45) PB8783	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=22 4			2300 Secs (2147 Secs) [==>2147.0 Secs]	[1]



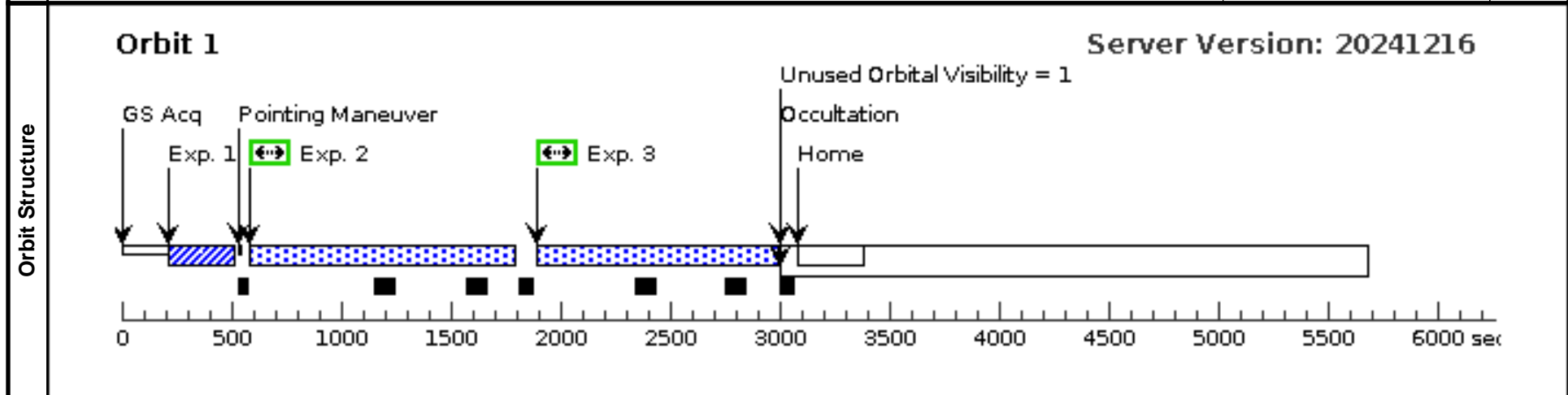
Proposal 17697 - Visit 37 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:06 GMT 2025

Visit	Proposal 17697, Visit 37, failed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: COS/FUV, COS/NUV				
	Special Requirements: (none)				

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(46)	SDSS-J082053.53+000843.4	RA: 08 20 53.5365 (125.2230688d) Dec: +00 08 43.47 (.14541d) Equinox: J2000	Proper Motion RA: 0.52273 mas/yr Proper Motion Dec: -2.24151 mas/yr Parallax: 0.6822e-3" Epoch of Position: 2016.0	V=15.21+/-0.03	Reference Frame: ICRS
<i>Comments:</i>					
Category=STAR Description=[SDB] Extended=NO					

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.193 2577)	(46) SDSS-J082053.53+000843.4	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				40 Secs (40 Secs) [==>]	[1]
2	(COS.sp.193 2569)	(46) SDSS-J082053.53+000843.4	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=41 4; FP-POS=3			1000 Secs (1044 Secs) [==>1044.0 Secs]	[1]
3	(COS.sp.193 2569)	(46) SDSS-J082053.53+000843.4	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=41 4; FP-POS=4			1000 Secs (1044 Secs) [==>1044.0 Secs]	[1]



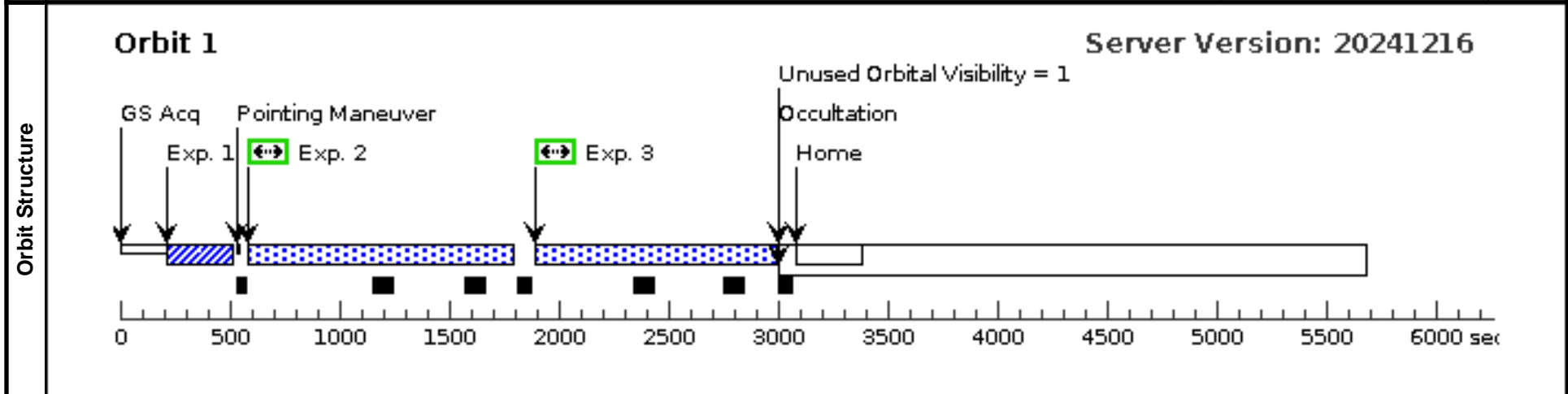
Proposal 17697 - HOPR (Z7) - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:06 GMT 2025

Visit	Proposal 17697, HOPR (Z7)				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: COS/FUV, COS/NUV				
	Special Requirements: (none)				
<i>Comments: This is a HOPR repeat for failed 37</i>					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(46)	SDSS-J082053.53+000843.4	RA: 08 20 53.5365 (125.2230688d) Dec: +00 08 43.47 (.14541d) Equinox: J2000	Proper Motion RA: 0.52273 mas/yr Proper Motion Dec: -2.24151 mas/yr Parallax: 0.6822e-3" Epoch of Position: 2016.0	V=15.21+/-0.03	Reference Frame: ICRS
	<i>Comments: Category=STAR Description=[SDB] Extended=NO</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.193 2577)	(46) SDSS-J082053.53+000843.4	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				40 Secs (40 Secs) [==>]	[1]
	2	(COS.sp.193 2569)	(46) SDSS-J082053.53+000843.4	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=41 4; FP-POS=3			1000 Secs (1044 Secs) [==>1044.0 Secs]	[1]
	3	(COS.sp.193 2569)	(46) SDSS-J082053.53+000843.4	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=41 4; FP-POS=4			1000 Secs (1044 Secs) [==>1044.0 Secs]	[1]



Proposal 17697 - Visit 38 - A far-UV treasury survey for hot subdwarf stars

Tue Jan 28 23:01:06 GMT 2025

Visit	Proposal 17697, Visit 38, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(47)	UVO0832-01	RA: 08 35 23.8890 (128.8495375d) Dec: -01 55 52.59 (-1.93128d) Equinox: J2000	Proper Motion RA: 13.06746 mas/yr Proper Motion Dec: 5.62583 mas/yr Parallax: 2.6532e-3" Epoch of Position: 2016.0	V=11.51	Reference Frame: ICRS
	<i>Comments:</i>					
	Category=STAR Description=[SDO] Extended=NO					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.193 2584)	(47) UVO0832-01	STIS/CCD, ACQ, F28X50LP	MIRROR				0.4 Secs (0.4 Secs) [=>]	[1]
	2	(STIS.sp.19 32581)	(47) UVO0832-01	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A				2300 Secs (2202 Secs) [=>2202.0 Secs]	[1]

