



16906 - COS FUV LP6 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial Resolution

Cycle: 29, Proposal Category: CAL/COS

(Availability Mode: RESTRICTED)

INVESTIGATORS

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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) WD0308-565	COS/FUV COS/NUV	2	26-Apr-2022 07:00:14.0	yes
02	(1) WD0308-565	COS/FUV COS/NUV	2	26-Apr-2022 07:00:17.0	yes
03	(1) WD0308-565	COS/FUV COS/NUV	2	26-Apr-2022 07:00:19.0	yes
04	(1) WD0308-565	COS/FUV COS/NUV	2	26-Apr-2022 07:00:21.0	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>
05	(1) WD0308-565	COS/FUV COS/NUV	2	26-Apr-2022 07:00:23.0	yes
06	(1) WD0308-565	COS/FUV COS/NUV	2	26-Apr-2022 07:00:26.0	yes
07	(2) GD71	COS/FUV COS/NUV	2	26-Apr-2022 07:00:29.0	yes
08	(2) GD71	COS/FUV COS/NUV	3	26-Apr-2022 07:00:33.0	yes
09	(2) GD71	COS/FUV COS/NUV	3	26-Apr-2022 07:00:37.0	yes
57	(2) GD71	COS/FUV COS/NUV	2	26-Apr-2022 07:00:41.0	yes
55	(1) WD0308-565	COS/FUV COS/NUV	1	26-Apr-2022 07:00:43.0	yes

23 Total Orbits Used

ABSTRACT

This program obtains observations of two spectrophotometric white dwarf standard stars (WD0308-565 and GD71) at all COS2025-compliant cenwaves and FP-POS at LP6 for G160M modes. The data will be used to determine the 2D cross-dispersion spectral profiles and traces required to perform two-zone extraction, as well as the sensitivities and flat-fields for accurate flux calibration. Additionally, the data will be used to determine the spatial resolution of the detectors. WD0308-565 is the primary target for this program due to its status as a flux standard and TDS target. GD71 is used to more efficiently calibrate Segment A.

The main requirement for this program is to achieve S/N of about 50 per resel, which is driven by the requirement for obtaining profiles that are sufficiently accurate that the contours can be located such that the enclosed flux errors are less than 1%. This program ties in with the FUV spectroscopic sensitivity monitoring program (PID 16830) during which near-contemporaneous observations at the new LP will be obtained to monitor any rapid evolution in the gain.

OBSERVING DESCRIPTION

This program contains 9 visits; visits 1-6 contain the WD0308-565 observations, and visits 7-9 contain the GD71 observations. It is modeled after PID 14910, which served the same purpose for LP4, with the following changes made:

- (1) The G160M portions of visits 3-5 go to LP6 via the selection of the LIFETIME-POS optional parameter. No special commanding is necessary for this (including HV, focus, and aperture). The remaining grating exposures are removed.
- (2) Each cenwave (all FPPOS) is now contained in its own visit. Planning the visits this way keeps them to 2-3 orbits each, which will help with scheduling.
- (3) Each visit begins with 2 ACQ/IMAGE target acquisition exposures, which help to get the target more accurately centered and guard against TA failures.
- (4) The exposure times per cenwave are increased to account for decreased sensitivity of detector (TDS). The orbit count is higher for this program due to the overheads added by split-wavecalcs at LP6. Buffer times are modified for the WD0308-565 visits to minimize buffer readout time between exposures in order to fit longer integration. Exposure times are calculated to achieve S/N~50 at the same wavelengths used for the LP4 program, which have been shown to be adequate for these purposes.

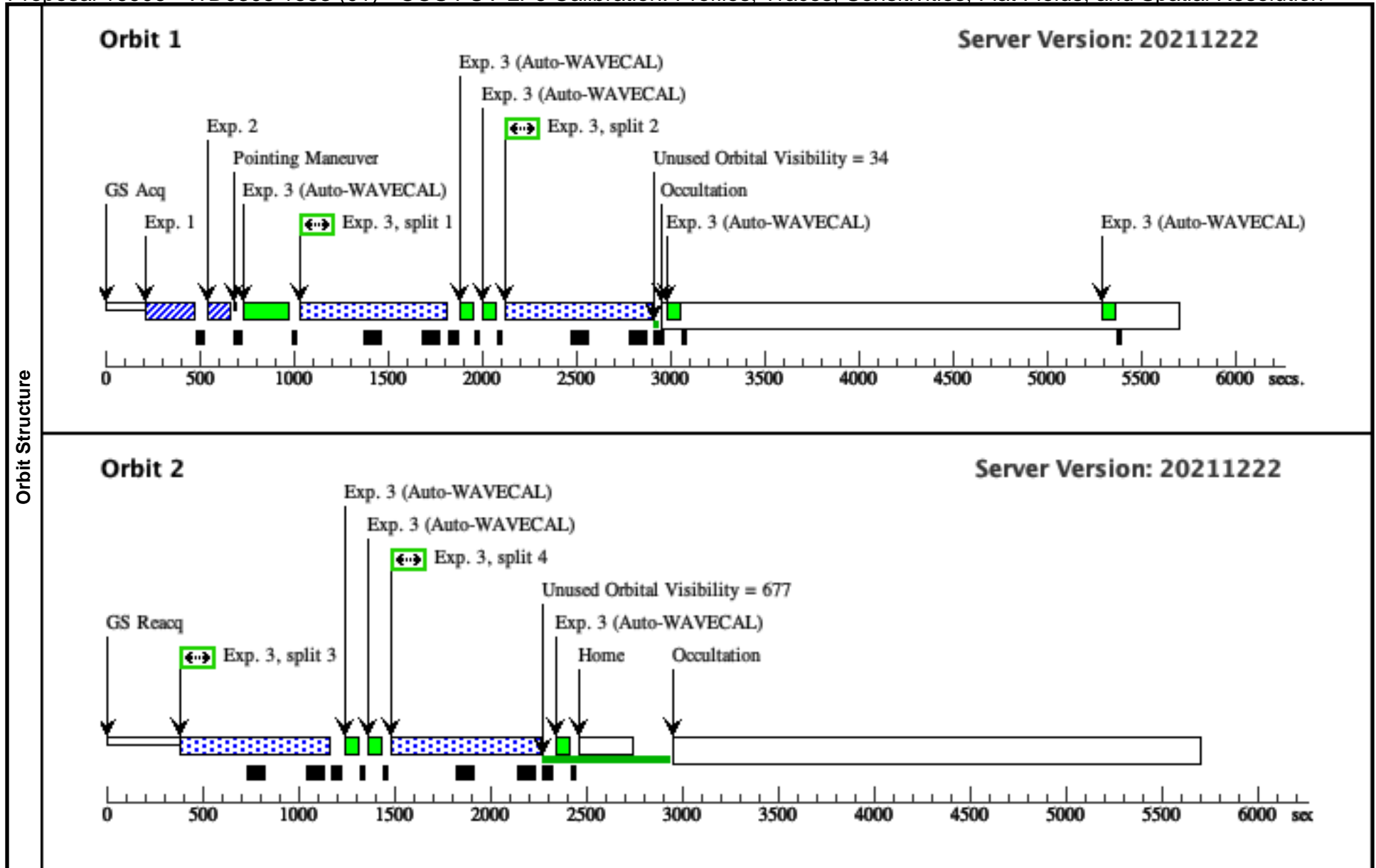
Scheduling notes:

All visits per target should execute within two weeks of each other. Additionally, program 16830 visits 5a and 6 will be tied to this program, and we request that these execute as close to the visits in this program as possible.

Proposal 16906 - WD0308 1533 (01) - COS FUV LP6 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial Resolution

Tue Apr 26 11:00:43 GMT 2022

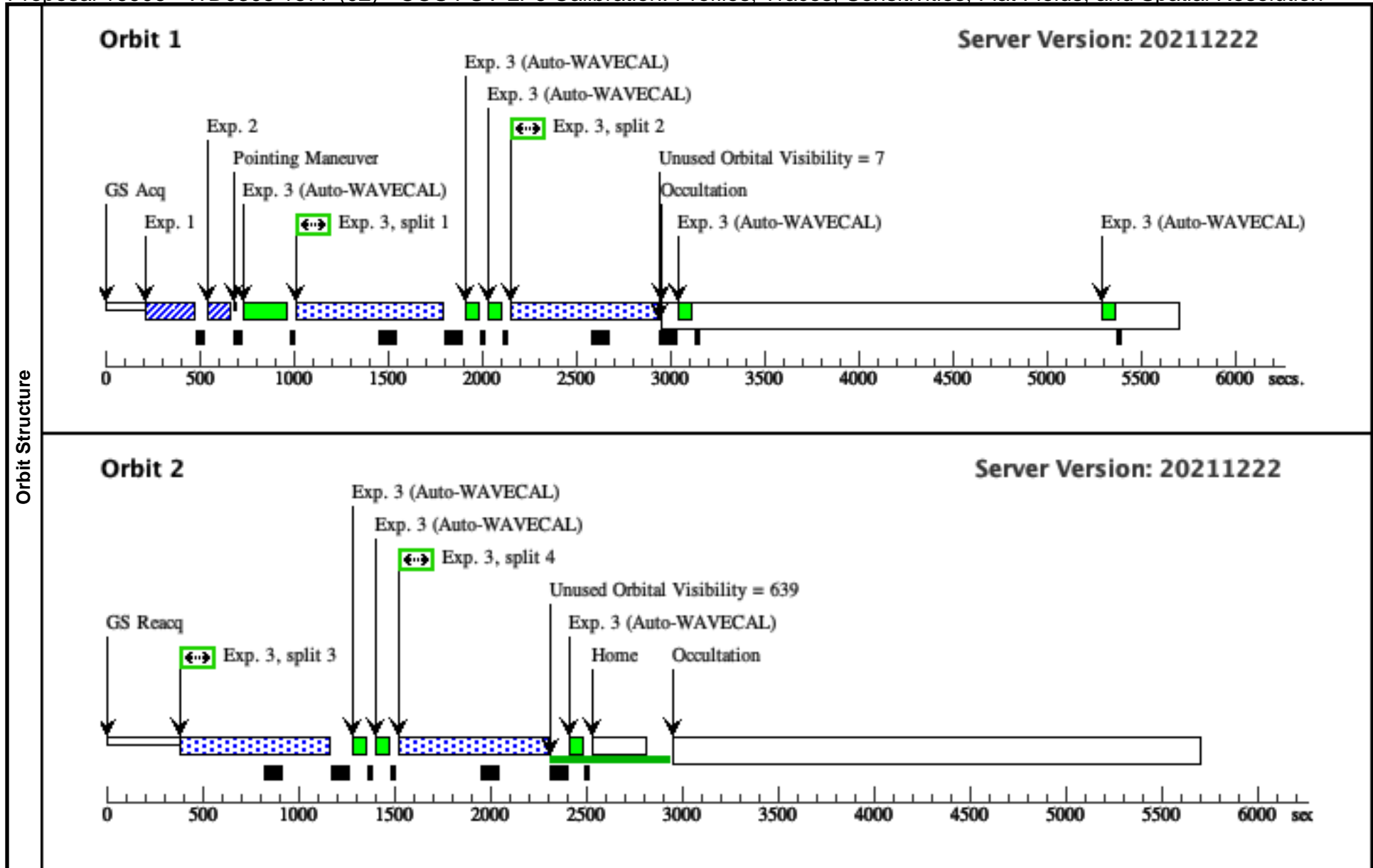
Visit	Proposal 16906, WD0308 1533 (01), completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100% <i>Comments: Visit containing observations of WD0308-565 with cenwave 1533</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS			
	<i>Comments: Coordinates from Charle's proposal</i> Category=STAR Description=[DB] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IM (COS.ta.168 3597)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				10 Secs (10 Secs)	
									[==>]	[1]
	<i>Comments: 10.3 sec for S/N = 30 for the ACQ/IM</i>									
	2	ACQ/IM (COS.ta.168 3597)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				10 Secs (10 Secs)	
								[==>]	[1]	
<i>Comments: 10.3 sec for S/N = 30 for the ACQ/IM</i>										
3	1533 (COS.sp.169 0867)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=ALL; LIFETIME-POS=L P6; SEGMENT=BOTH; BUFFER-TIME=31 0			725 Secs (2900 Secs)		
								[==>(Split 1)]		
								[==>(Split 2)]	[1]	
								[==>(Split 3)]		
								[==>(Split 4)]	[2]	
<i>Comments: 2900s gives S/N~50 at 1450A</i> 2900/4 = 725s per FPPOS BFT = 501 * 2/3 = 334, but using n-100/m we can lower to 310 to minimize time between exposures.										



Proposal 16906 - WD0308 1577 (02) - COS FUV LP6 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial Resolution

Tue Apr 26 11:00:44 GMT 2022

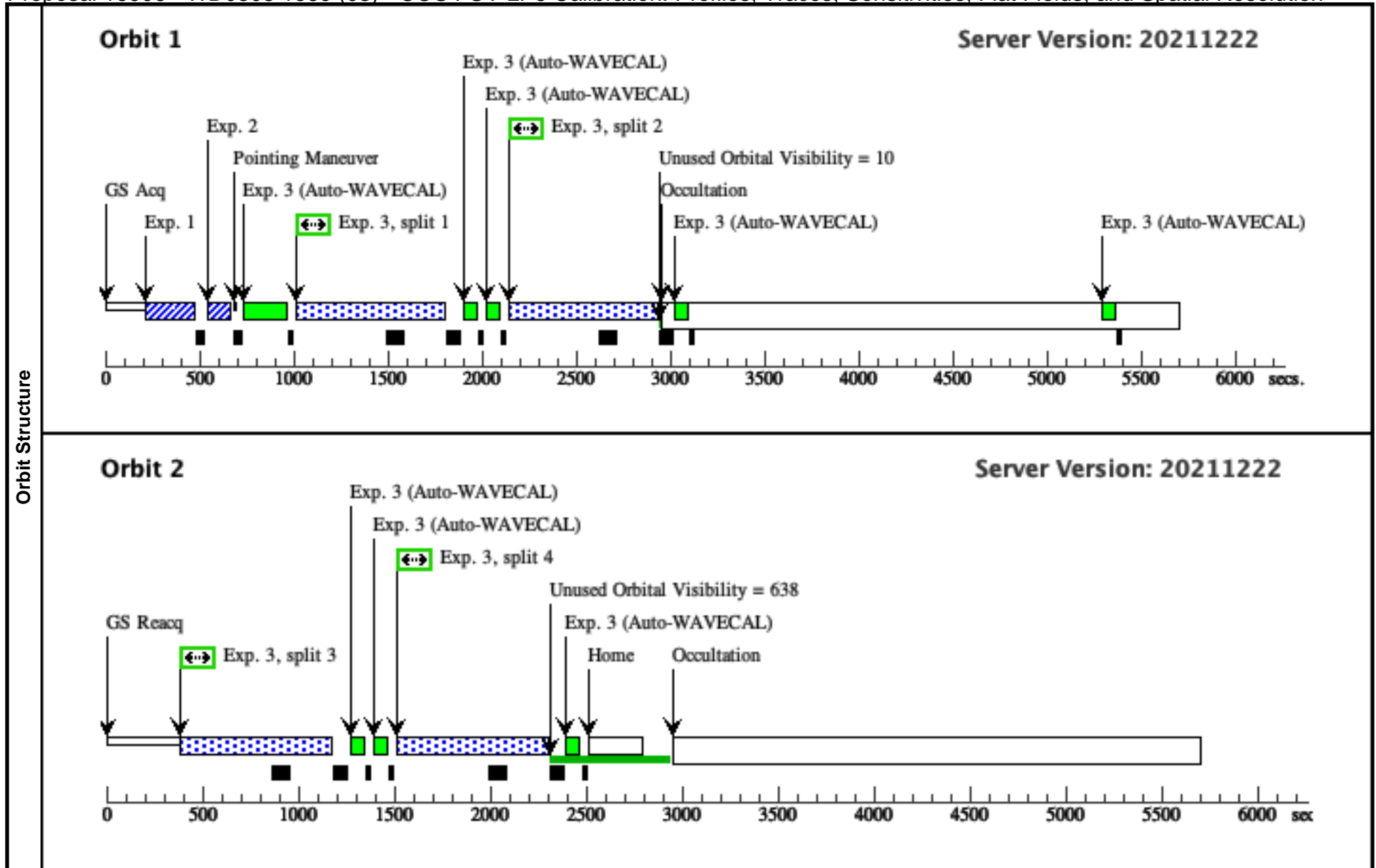
Visit	Proposal 16906, WD0308 1577 (02), completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100% <i>Comments: Visit containing observations of WD0308-565 with cenwave 1577</i>									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000		V=14.07+/-0.02	Reference Frame: ICRS			
<i>Comments: Coordinates from Charle's proposal</i> Category=STAR Description=[DB] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IM (COS.ta.168 3597)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				10 Secs (10 Secs) [==>]	[1]
	<i>Comments: 10.3 sec for S/N = 30 for the ACQ/IM</i>									
	2	ACQ/IM (COS.ta.168 3597)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				10 Secs (10 Secs) [==>]	[1]
	<i>Comments: 10.3 sec for S/N = 30 for the ACQ/IM</i>									
	3	1577 (COS.sp.169 0868)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=ALL; LIFETIME-POS=L P6; SEGMENT=BOTH; BUFFER-TIME=39 8			725 Secs (2900 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1] [2]
<i>Comments: 2900s gives S/N~50 at 1500A</i> 2900/4 = 725s per FPPOS BFT = 636 * 2/3 = 424, but using n-100/m we can lower to 398 to minimize time between exposures.										



Proposal 16906 - WD0308 1589 (03) - COS FUV LP6 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial Resolution

Tue Apr 26 11:00:44 GMT 2022

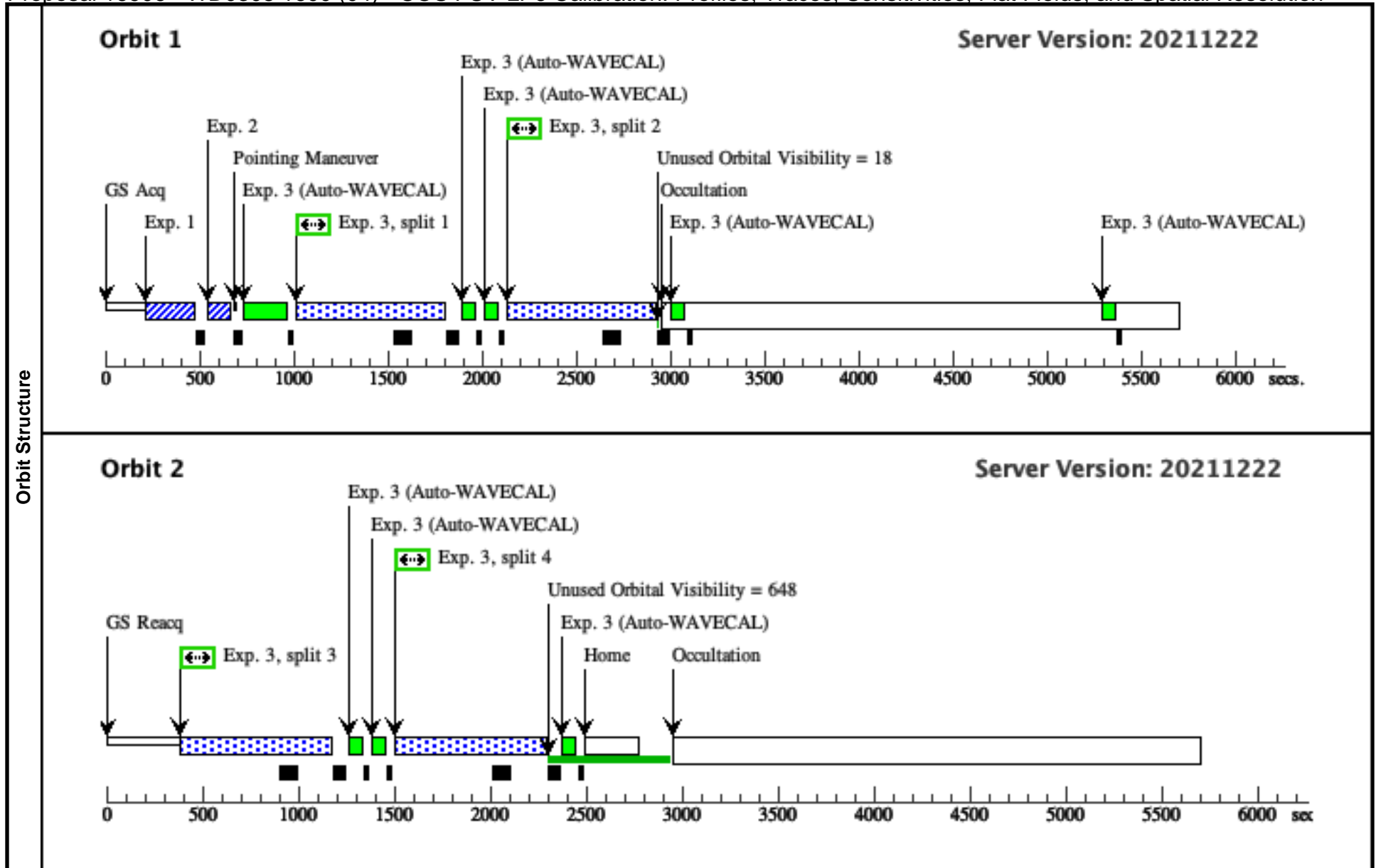
Visit	Proposal 16906, WD0308 1589 (03), completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100% <i>Comments: Visit containing observations of WD0308-565 with cenwave 1589</i>									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000		V=14.07+/-0.02	Reference Frame: ICRS			
<i>Comments: Coordinates from Charle's proposal</i> Category=STAR Description=[DB] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IM (COS.ta.168 3597)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				10 Secs (10 Secs) [==>]	[1]
	<i>Comments: 10.3 sec for S/N = 30 for the ACQ/IM</i>									
	2	ACQ/IM (COS.ta.168 3597)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				10 Secs (10 Secs) [==>]	[1]
	<i>Comments: 10.3 sec for S/N = 30 for the ACQ/IM</i>									
3	1589 (COS.sp.168 8847)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=ALL; LIFETIME-POS=L P6; SEGMENT=BOTH; BUFFER-TIME=44 4			735 Secs (2940 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1] [2]	
<i>Comments: 2940s gives S/N~50 at 1510A</i> 2940/4 = 735s per FPPPOS BFT = 666 * 2/3 = 444										



Proposal 16906 - WD0308 1600 (04) - COS FUV LP6 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial Resolution

Tue Apr 26 11:00:44 GMT 2022

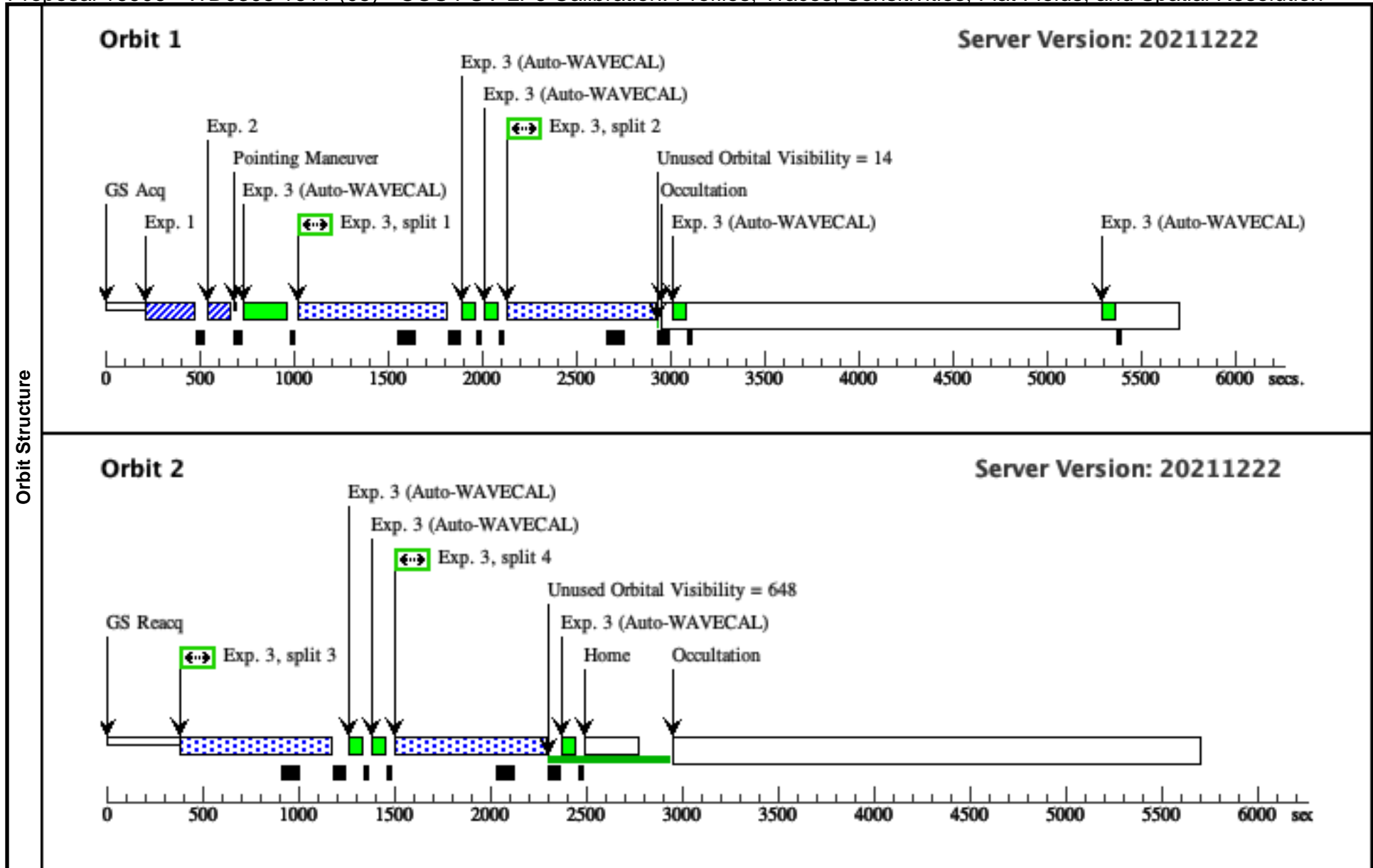
Visit	Proposal 16906, WD0308 1600 (04), completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100% <i>Comments: Visit containing observations of WD0308-565 with cenwave 1600</i>									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000		V=14.07+/-0.02	Reference Frame: ICRS			
<i>Comments: Coordinates from Charle's proposal</i> Category=STAR Description=[DB] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IM (COS.ta.168 3597)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				10 Secs (10 Secs) [==>]	[1]
	<i>Comments: 10.3 sec for S/N = 30 for the ACQ/IM</i>									
	2	ACQ/IM (COS.ta.168 3597)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				10 Secs (10 Secs) [==>]	[1]
	<i>Comments: 10.3 sec for S/N = 30 for the ACQ/IM</i>									
	3	1600 (COS.sp.168 8848)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=ALL; LIFETIME-POS=L P6; SEGMENT=BOTH; BUFFER-TIME=47 8			735 Secs (2940 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1] [2]
<i>Comments: 2940s gives S/N~50 at 1520A</i> 2940/4 = 735s per FPPPOS BFT = 717 s * 2/3 = 478										



Proposal 16906 - WD0308 1611 (05) - COS FUV LP6 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial Resolution

Tue Apr 26 11:00:44 GMT 2022

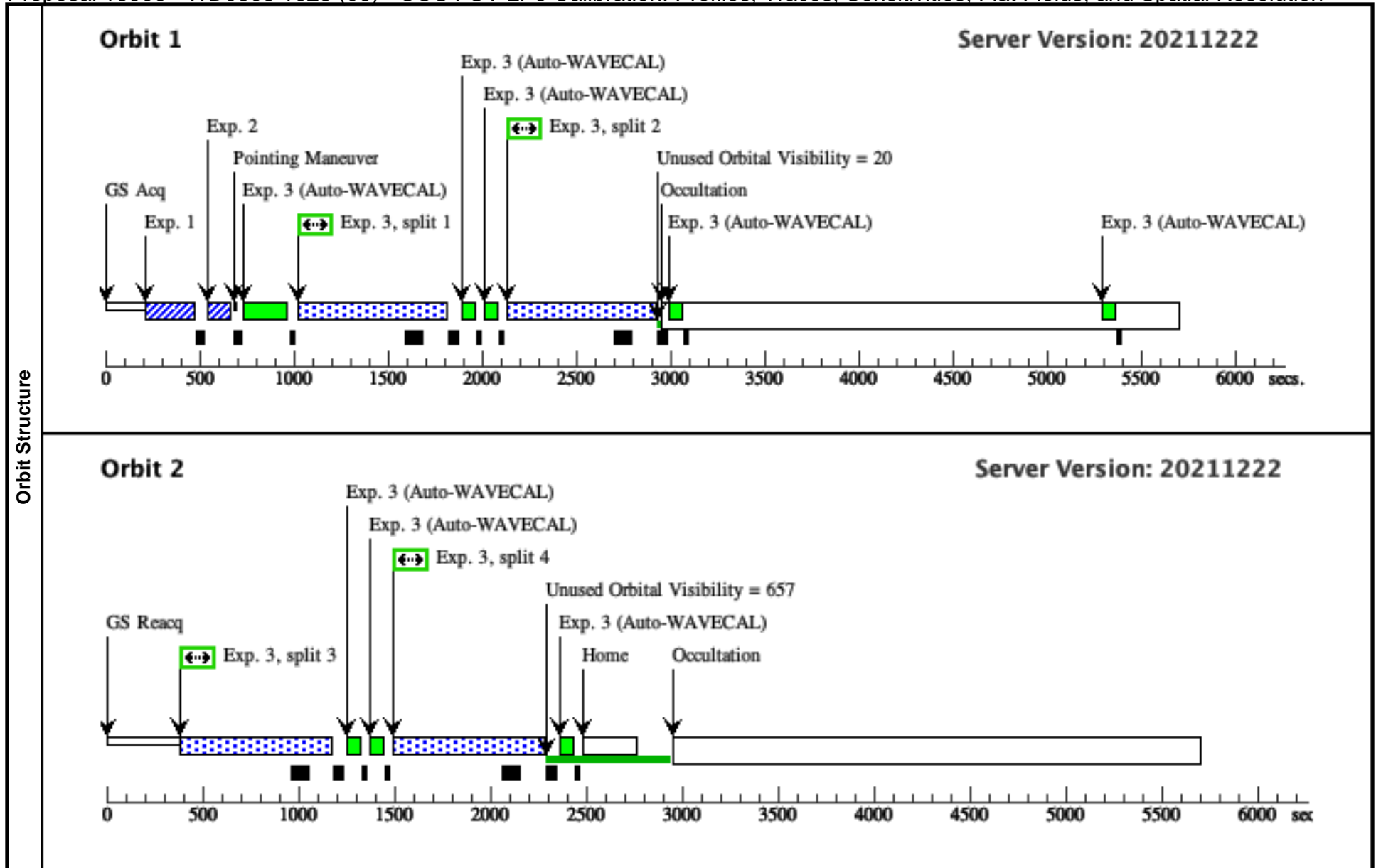
Visit	Proposal 16906, WD0308 1611 (05), failed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100% <i>Comments: Visit containing observations of WD0308-565 with cenwave 1611</i>									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS				
<i>Comments: Coordinates from Charle's proposal</i> Category=STAR Description=[DB] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IM (COS.ta.168 3597)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				10 Secs (10 Secs) [==>]	[1]
	<i>Comments: 10.3 sec for S/N = 30 for the ACQ/IM</i>									
	2	ACQ/IM (COS.ta.168 3597)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				10 Secs (10 Secs) [==>]	[1]
	<i>Comments: 10.3 sec for S/N = 30 for the ACQ/IM</i>									
	3	1611 (COS.sp.168 8849)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=ALL; LIFETIME-POS=L P6; SEGMENT=BOTH; BUFFER-TIME=49 6			735 Secs (2940 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1] [2]
<i>Comments: 2940s gives S/N~50 at 1530A</i> 2940/4 = 735s per FPPOS BFT = 745 * 2/3 = 496										



Proposal 16906 - WD0308 1623 (06) - COS FUV LP6 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial Resolution

Tue Apr 26 11:00:44 GMT 2022

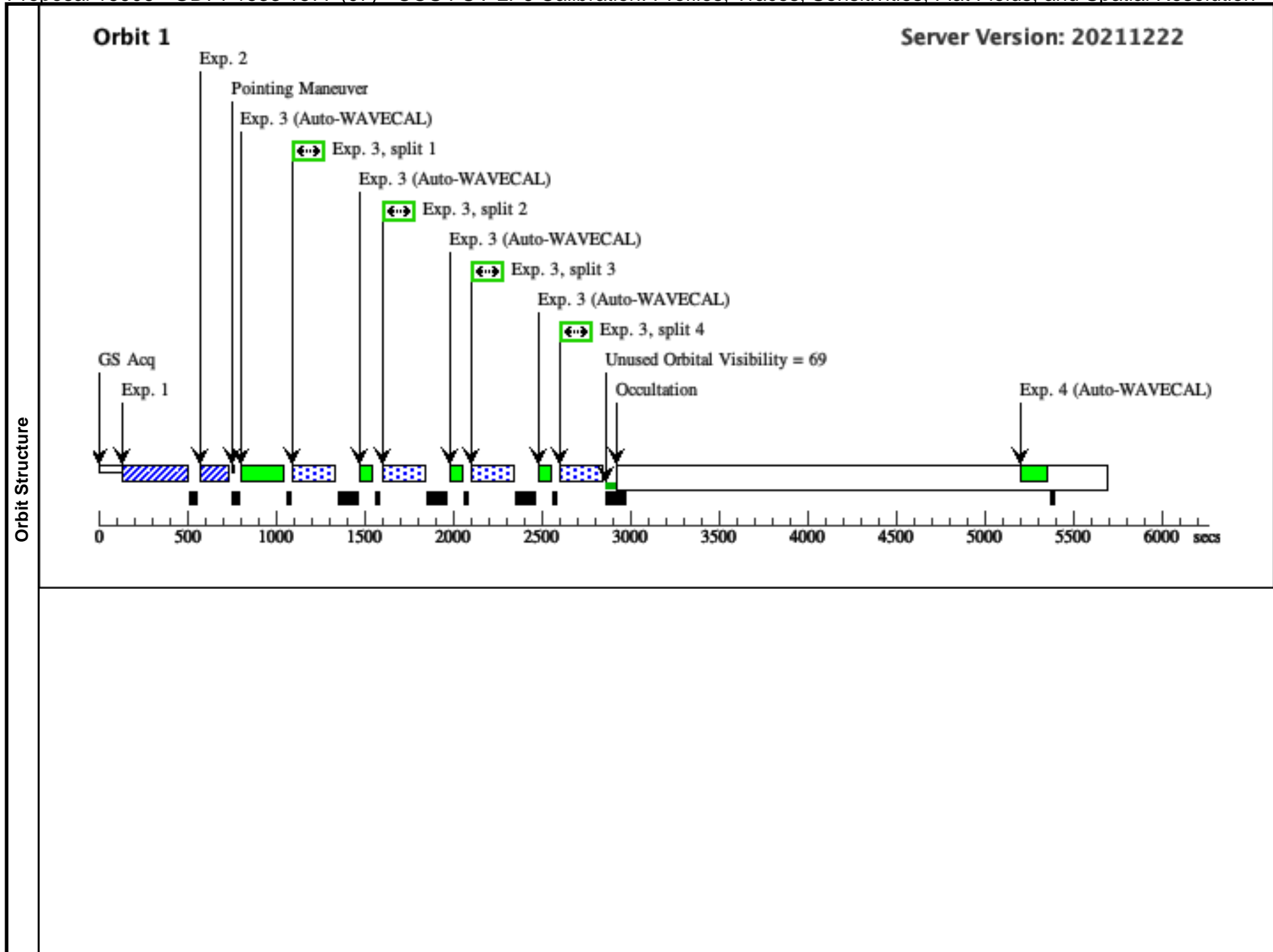
Visit	Proposal 16906, WD0308 1623 (06), completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100% <i>Comments: Visit containing observations of WD0308-565 with cenwave 1623</i>																					
	Fixed Targets	<table border="1"> <thead> <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>(1)</td> <td>WD0308-565</td> <td>RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000</td> <td>Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000</td> <td>V=14.07+/-0.02</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <i>Comments: Coordinates from Charle's proposal</i> Category=STAR Description=[DB] Extended=NO										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000	V=14.07+/-0.02
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																	
(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000	V=14.07+/-0.02	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	ACQ/IM (COS.ta.168 3597)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				10 Secs (10 Secs) [==>]	[1]												
	<i>Comments: 10.3 sec for S/N = 30 for the ACQ/IM</i>																					
	2	ACQ/IM (COS.ta.168 3597)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				10 Secs (10 Secs) [==>]	[1]												
	<i>Comments: 10.3 sec for S/N = 30 for the ACQ/IM</i>																					
3	1623 (COS.sp.168 8850)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=ALL; LIFETIME-POS=L P6; SEGMENT=BOTH; BUFFER-TIME=53 8			735 Secs (2940 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1] [2]													
<i>Comments: 2940s gives S/N~50 at 1540A</i> 2940/4 = 735s per FPPPOS BFT = 807 * 2/3 = 538																						

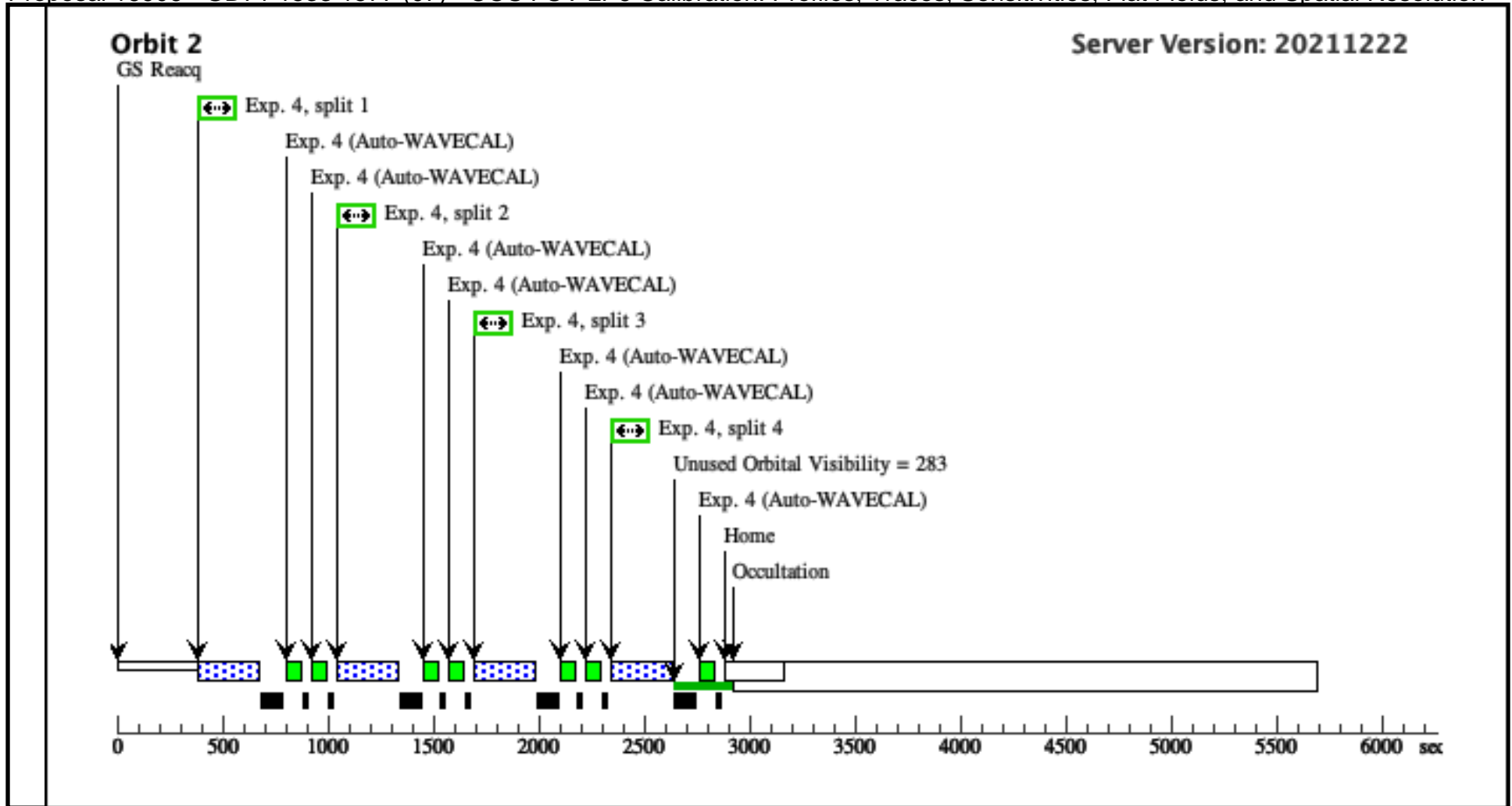


Proposal 16906 - GD71 1533 1577 (07) - COS FUV LP6 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial Resolution

Tue Apr 26 11:00:44 GMT 2022

Visit	Proposal 16906, GD71 1533 1577 (07), failed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100% <i>Comments: Visit containing observations of GD71 with Segment A only with cenwaves 1533 + 1577</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(2)	GD71	RA: 05 52 27.6100 (88.1150417d) Dec: +15 53 13.80 (15.88717d) Equinox: J2000	Proper Motion RA: 85 mas/yr Proper Motion Dec: -174 mas/yr Epoch of Position: 2000	V=13.06+/-0.01	Reference Frame: ICRS			
	<i>Comments: Use sma RA, DEC and PM as in proposal 12392 by Bohlin et al.</i> Category=STAR Description=[DA] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IM (COS.ta.168 3600)	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				26 Secs (26 Secs) [==>]	[1]
	<i>Comments: 25.8 seconds for S/N = 30 for ACQ/IM</i>									
	2	ACQ/IM (COS.ta.168 3600)	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				26 Secs (26 Secs) [==>]	[1]
	<i>Comments: 25.8 seconds for S/N = 30 for ACQ/IM</i>									
3	1533 (COS.sp.168 9536)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=ALL; LIFETIME-POS=L P6; SEGMENT=A; BUFFER-TIME=17 8			190 Secs (760 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]	
<i>Comments: 760s gives S/N=50 at 1620A</i> 760/4 = 190s per FPPOS BFT (seg A) = 267 * 2/3 = 178										
4	1577 (COS.sp.168 9540)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=ALL; LIFETIME-POS=L P6; SEGMENT=A; BUFFER-TIME=25 4			235 Secs (940 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[2]	
<i>Comments: 940s gives S/N=50 at 1660A</i> 940/4 = 235s per FPPOS BFT (seg A) = 381 * 2/3 = 254										

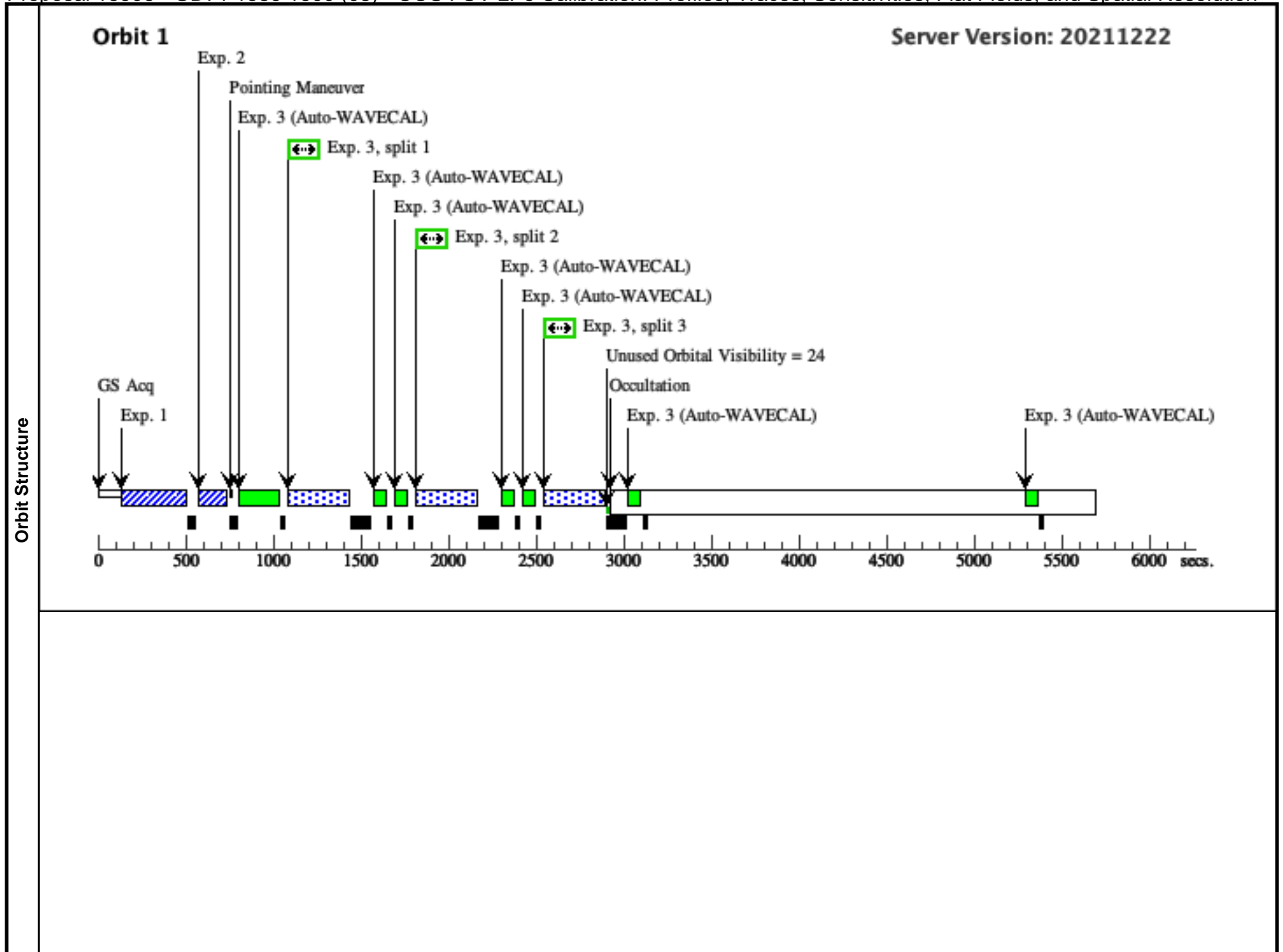




Proposal 16906 - GD71 1589 1600 (08) - COS FUV LP6 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial Resolution

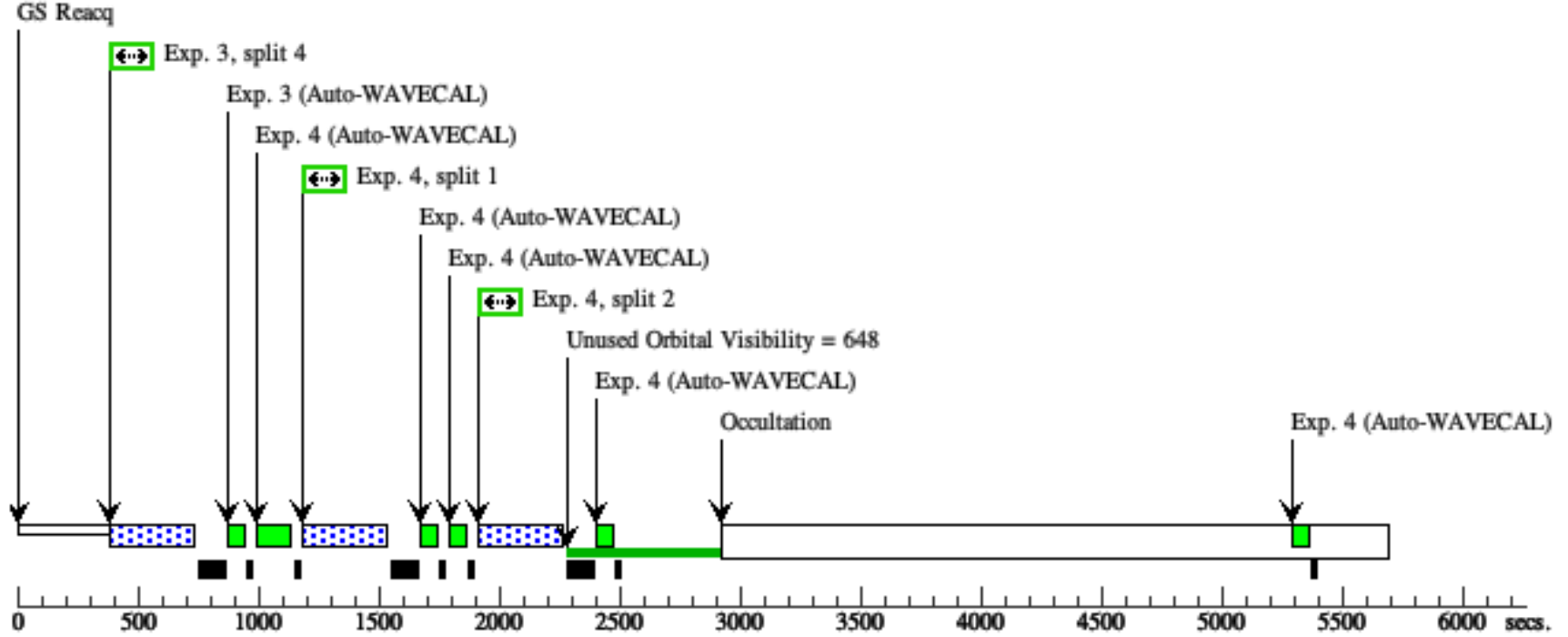
Tue Apr 26 11:00:44 GMT 2022

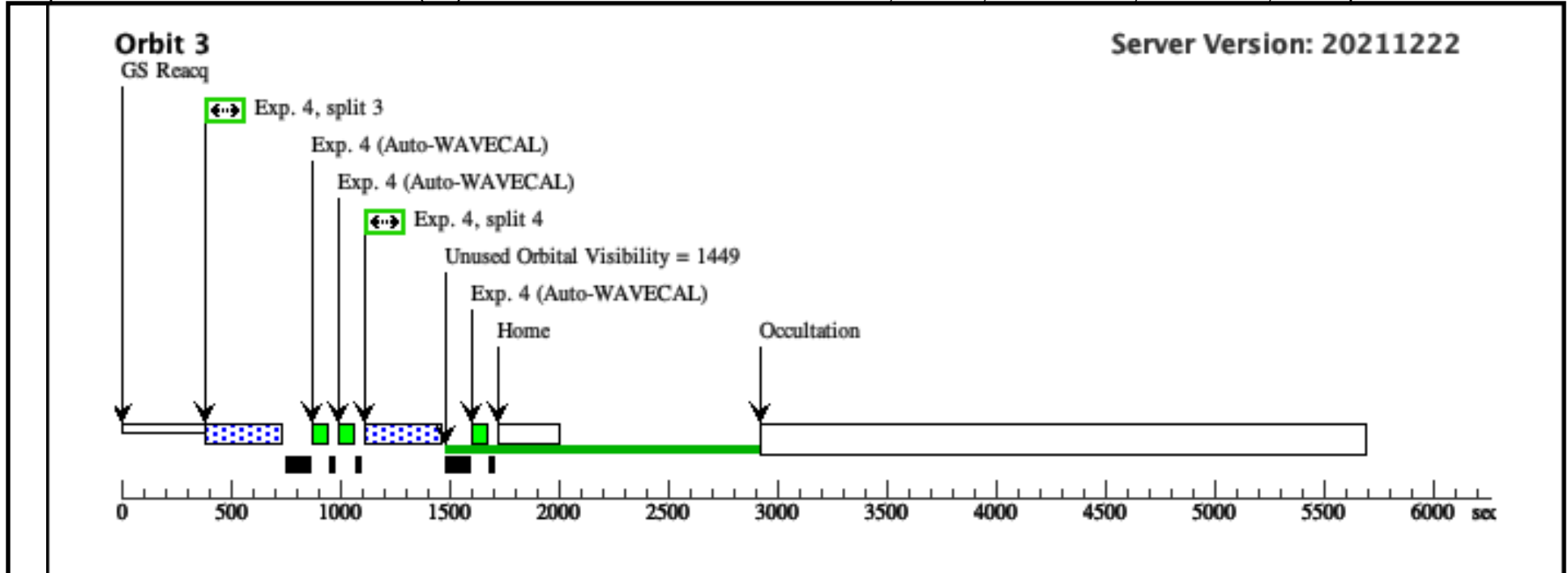
Visit	Proposal 16906, GD71 1589 1600 (08), failed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100% <i>Comments: Visit containing observations of GD71 with Segment A only with cenwaves 1589 + 1600</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(2)	GD71	RA: 05 52 27.6100 (88.1150417d) Dec: +15 53 13.80 (15.88717d) Equinox: J2000	Proper Motion RA: 85 mas/yr Proper Motion Dec: -174 mas/yr Epoch of Position: 2000	V=13.06+/-0.01	Reference Frame: ICRS			
	<i>Comments: Use sma RA, DEC and PM as in proposal 12392 by Bohlin et al.</i> Category=STAR Description=[DA] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IM (COS.ta.168 3600)	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				26 Secs (26 Secs) [==>]	[1]
	<i>Comments: 25.8 seconds for S/N = 30 for ACQ/IM</i>									
	2	ACQ/IM (COS.ta.168 3600)	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				26 Secs (26 Secs) [==>]	[1]
	<i>Comments: 25.8 seconds for S/N = 30 for ACQ/IM</i>									
	3	1589 (COS.sp.168 9533)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=ALL; LIFETIME-POS=L P6; SEGMENT=A; BUFFER-TIME=27 8			300 Secs (1200 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1] [2]
	<i>Comments: 1200s gives S/N~50 at 1670A</i> 1200/4 = 300 s per FPPOS BFT (seg A) = 417 * 2/3 = 278									
	4	1600 (COS.sp.168 9532)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=ALL; LIFETIME-POS=L P6; SEGMENT=A; BUFFER-TIME=29 8			300 Secs (1200 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[2] [3]
	<i>Comments: 1200s gives S/N~50 at 1680A</i> 1200/4 = 300 s per FPPOS BFT (seg A) = 447 * 2/3 = 298									



Orbit 2

Server Version: 20211222

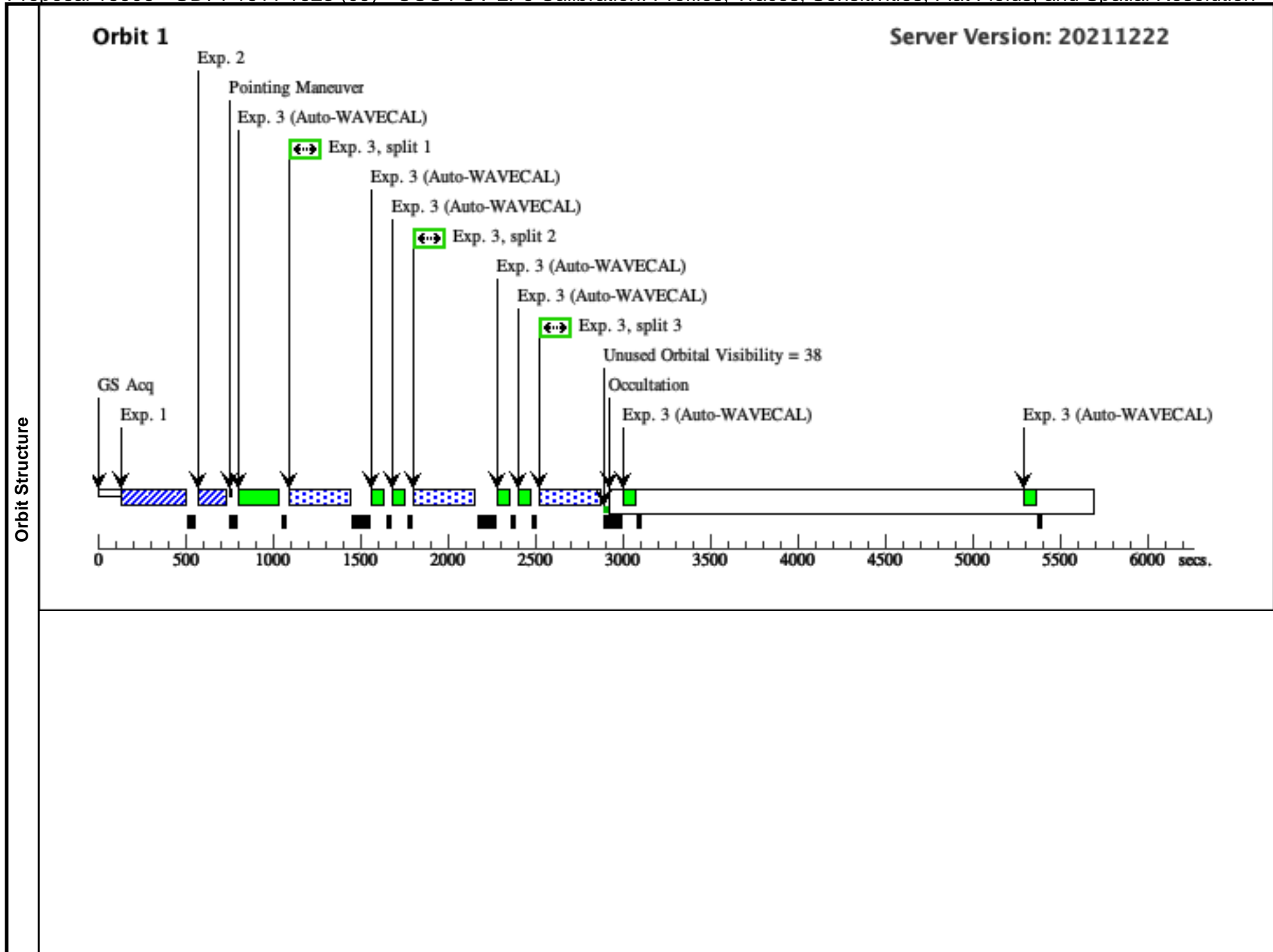




Proposal 16906 - GD71 1611 1623 (09) - COS FUV LP6 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial Resolution

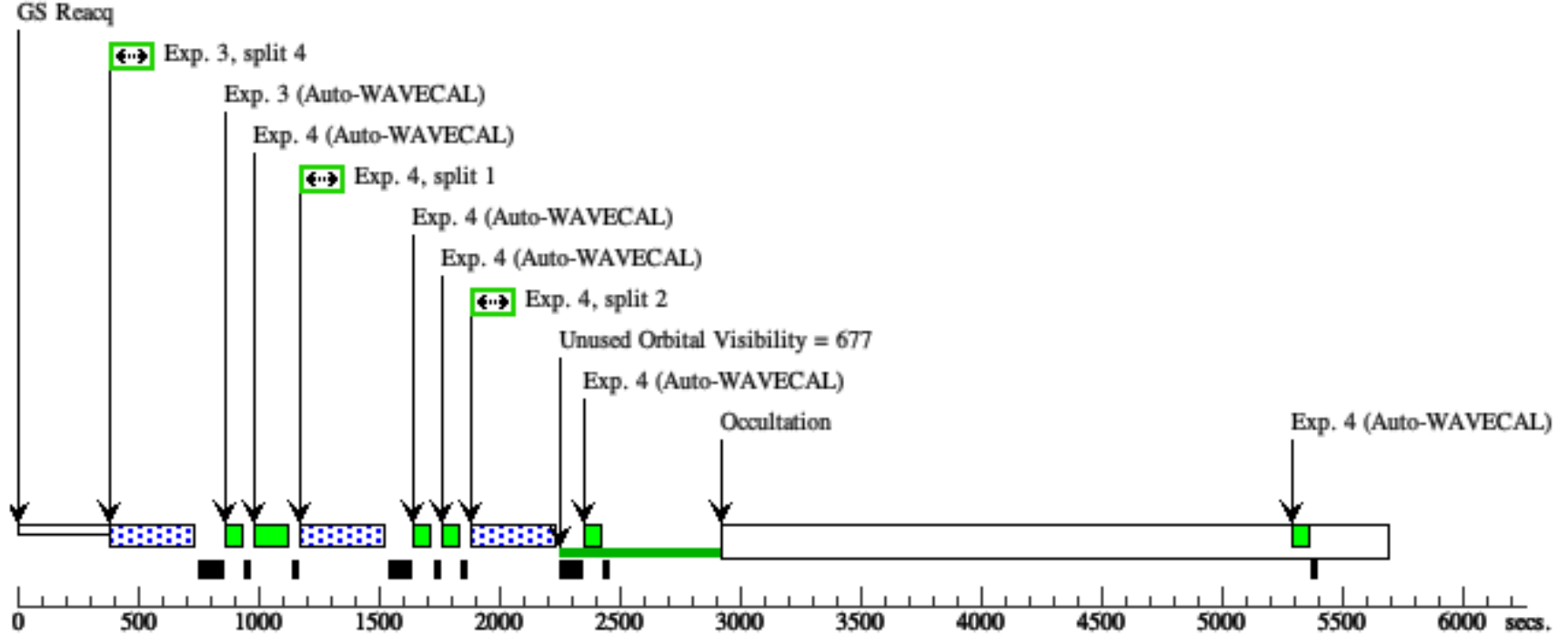
Tue Apr 26 11:00:44 GMT 2022

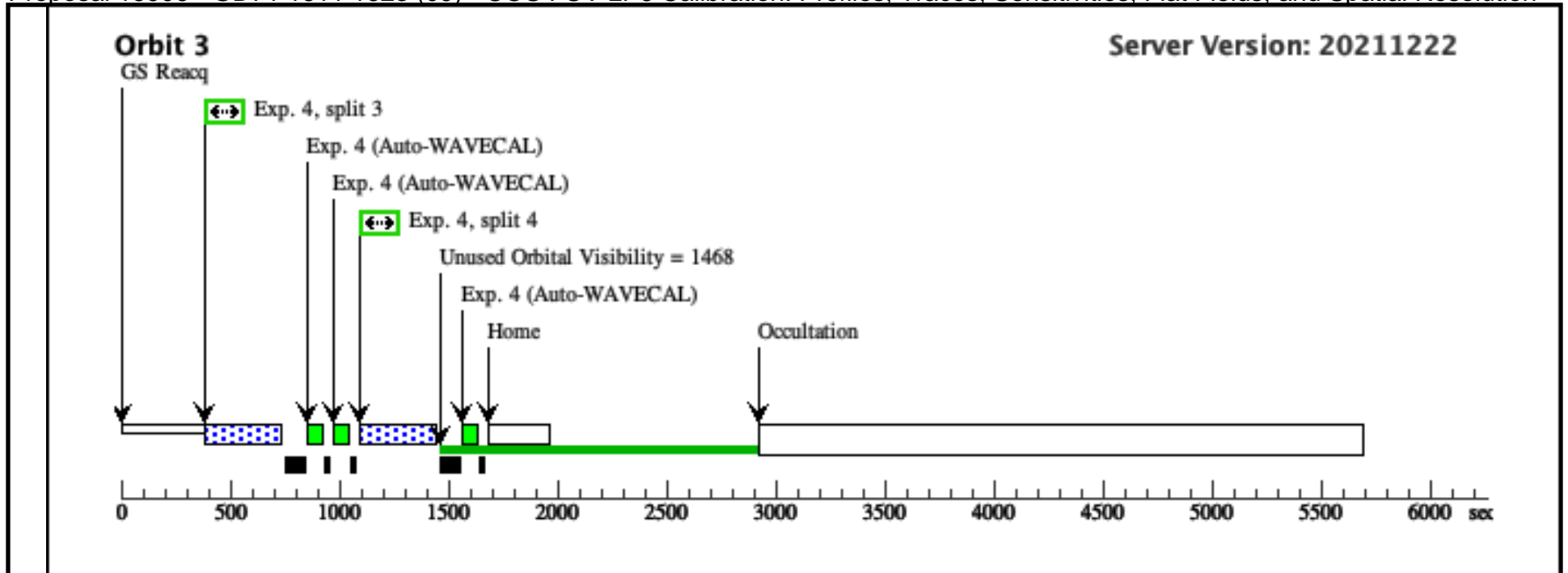
Visit	Proposal 16906, GD71 1611 1623 (09), completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100% <i>Comments: Visit containing observations of GD71 with Segment A only with cenwaves 1611 + 1623</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(2)	GD71	RA: 05 52 27.6100 (88.1150417d) Dec: +15 53 13.80 (15.88717d) Equinox: J2000	Proper Motion RA: 85 mas/yr Proper Motion Dec: -174 mas/yr Epoch of Position: 2000	V=13.06+/-0.01	Reference Frame: ICRS			
	<i>Comments: Use sma RA, DEC and PM as in proposal 12392 by Bohlin et al.</i> Category=STAR Description=[DA] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IM (COS.ta.168 3600)	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				26 Secs (26 Secs) [==>]	[1]
	<i>Comments: 25.8 seconds for S/N = 30 for ACQ/IM</i>									
	2	ACQ/IM (COS.ta.168 3600)	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				26 Secs (26 Secs) [==>]	[1]
	<i>Comments: 25.8 seconds for S/N = 30 for ACQ/IM</i>									
	3	1611 (COS.sp.168 9531)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=ALL; LIFETIME-POS=L P6; SEGMENT=A; BUFFER-TIME=30 9			300 Secs (1200 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1] [2]
	<i>Comments: 1200s gives S/N~50 at 1690A</i> 1200/4 = 300 s per FPPOS BFT (seg A) = 464 * 2/3 = 309									
	4	1623 (COS.sp.168 9530)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=ALL; LIFETIME-POS=L P6; SEGMENT=A; BUFFER-TIME=33 9			300 Secs (1200 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[2] [3]
	<i>Comments: 1200s gives S/N~50 at 1700A</i> 1200/4 = 300 s per FPPOS BFT (seg A) = 509 * 2/3 = 339									



Orbit 2

Server Version: 20211222



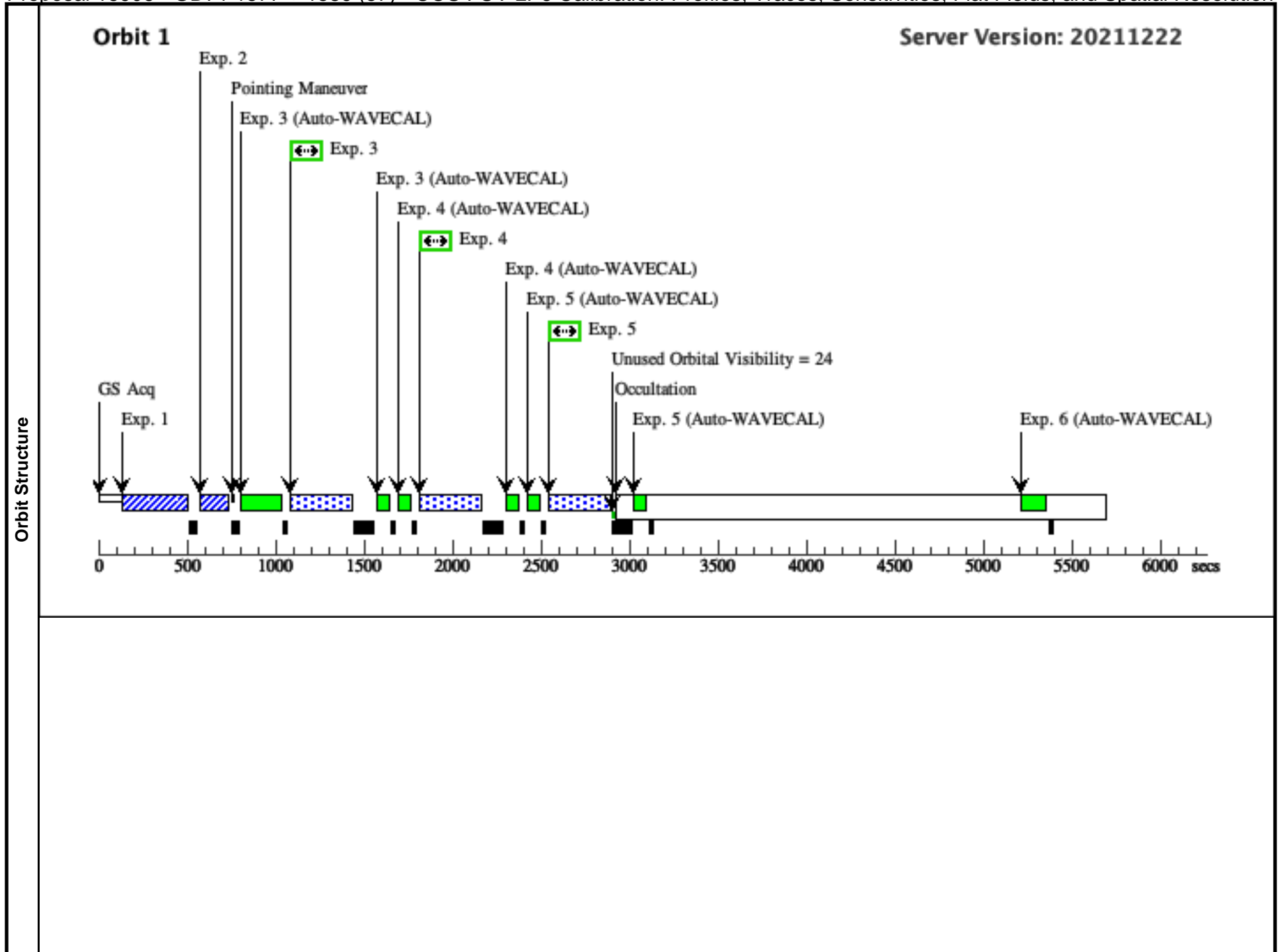


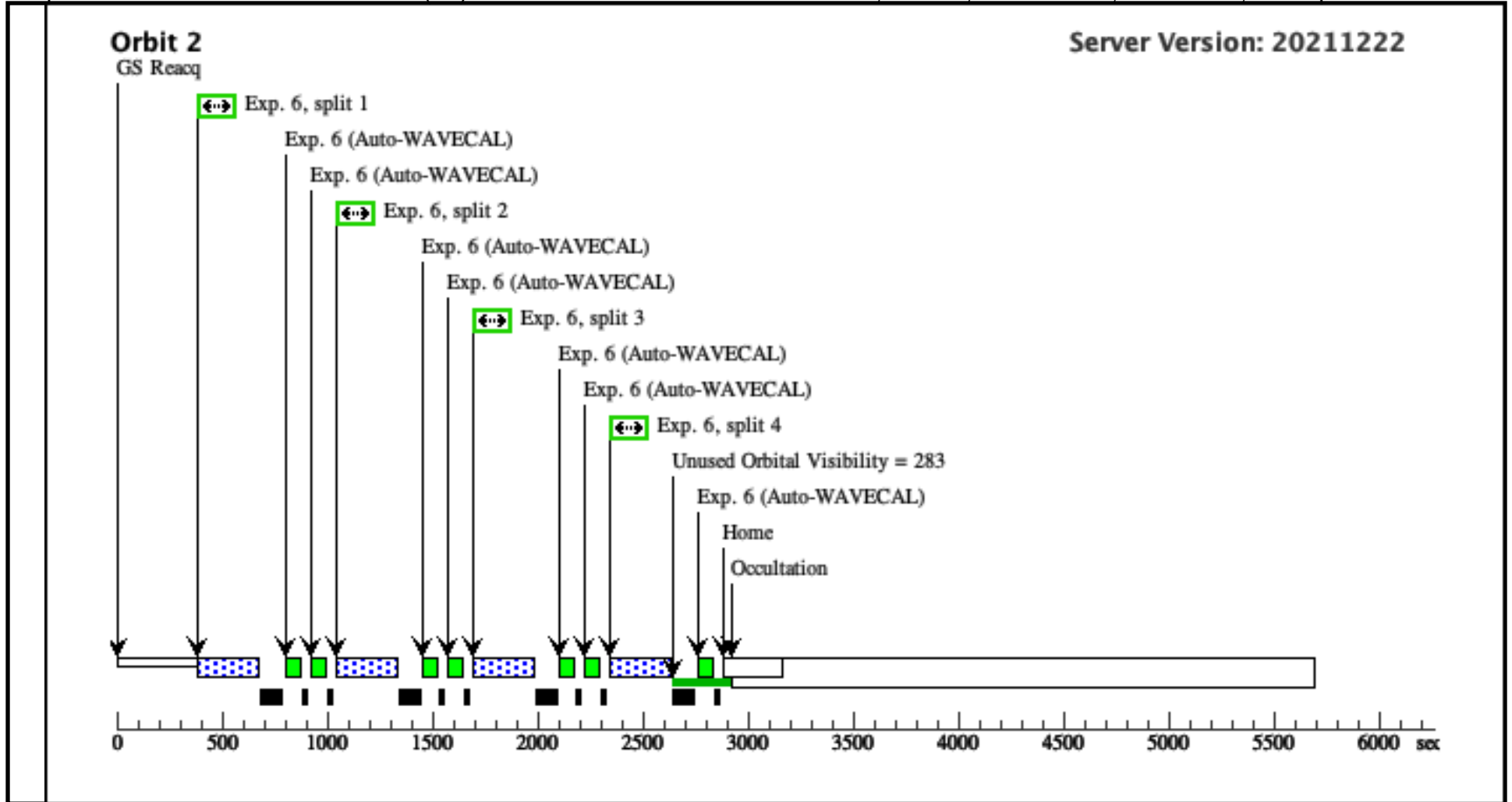
Proposal 16906 - GD71 1577 + 1589 (57) - COS FUV LP6 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial Resolution

Visit	Proposal 16906, GD71 1577 + 1589 (57), completed Tue Apr 26 11:00:44 GMT 2022 Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100% <i>Comments: Repeat visit containing observations of GD71 with Segment A only with cenwaves 1577 (all FPPOS) and 1589 (FPPOS 1-3)</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(2)		GD71	RA: 05 52 27.6100 (88.1150417d) Dec: +15 53 13.80 (15.88717d) Equinox: J2000	Proper Motion RA: 85 mas/yr Proper Motion Dec: -174 mas/yr Epoch of Position: 2000	V=13.06+/-0.01	Reference Frame: ICRS
<i>Comments: Use sma RA, DEC and PM as in proposal 12392 by Bohlin et al.</i> Category=STAR Description=[DA] Extended=NO						

Proposal 16906 - GD71 1577 + 1589 (57) - COS FUV LP6 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial Resolution

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	ACQ/IM (2) GD71 (COS.ta.168 3600)	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				26 Secs (26 Secs) [==>]	[1]
	<i>Comments: 25.8 seconds for S/N = 30 for ACQ/IM</i>								
	2	ACQ/IM (2) GD71 (COS.ta.168 3600)	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				26 Secs (26 Secs) [==>]	[1]
	<i>Comments: 25.8 seconds for S/N = 30 for ACQ/IM</i>								
	3	1589 fppos 1 (COS.sp.168 9533)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=1; LIFETIME-POS=L P6; SEGMENT=A; BUFFER-TIME=27 8		300 Secs (300 Secs) [==>]	[1]
	<i>Comments: 1200s gives S/N~50 at 1670A 1200/4 = 300 s per FPPOS BFT (seg A) = 417 * 2/3 = 278</i>								
4	1589 fppos 2 (COS.sp.168 9533)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=2; LIFETIME-POS=L P6; SEGMENT=A; BUFFER-TIME=27 8		300 Secs (300 Secs) [==>]	[1]	
<i>Comments: 1200s gives S/N~50 at 1670A 1200/4 = 300 s per FPPOS BFT (seg A) = 417 * 2/3 = 278</i>									
5	1589 fppos 3 (COS.sp.168 9533)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; LIFETIME-POS=L P6; SEGMENT=A; BUFFER-TIME=27 8		300 Secs (300 Secs) [==>]	[1]	
<i>Comments: 1200s gives S/N~50 at 1670A 1200/4 = 300 s per FPPOS BFT (seg A) = 417 * 2/3 = 278</i>									
6	1577 fppos a 11 (COS.sp.168 9540)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=ALL; LIFETIME-POS=L P6; SEGMENT=A; BUFFER-TIME=25 4		235 Secs (940 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[2]	
<i>Comments: 940s gives S/N=50 at 1660A 940/4 = 235s per FPPOS BFT (seg A) = 381 * 2/3 = 254</i>									





Proposal 16906 - WD0308 1611 (55) - COS FUV LP6 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial Resolution

Tue Apr 26 11:00:44 GMT 2022

Visit	Proposal 16906, WD0308 1611 (55) Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: Repeat visit containing observations of WD0308 with cenwave 1611 FPPOS 3 + 4</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS			
	<i>Comments: Coordinates from Charle's proposal</i> Category=STAR Description=[DB] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IM (COS.ta.168 3597)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				10 Secs (10 Secs)	
									[==>]	[1]
	<i>Comments: 10.3 sec for S/N = 30 for the ACQ/IM</i>									
	2	ACQ/IM (COS.ta.168 3597)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				10 Secs (10 Secs)	
									[==>]	[1]
<i>Comments: 10.3 sec for S/N = 30 for the ACQ/IM</i>										
3	1611 fppos 3 (COS.sp.168 8849)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=3; LIFETIME-POS=L P6; SEGMENT=BOTH; BUFFER-TIME=49 6			735 Secs (735 Secs)		
								[==>]	[1]	
<i>Comments: 2940s gives S/N~50 at 1530A</i> 2940/4 = 735s per FPPOS BFT = 745 * 2/3 = 496										
4	1611 fppos 4 (COS.sp.168 8849)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=4; LIFETIME-POS=L P6; SEGMENT=BOTH; BUFFER-TIME=49 6			735 Secs (735 Secs)		
								[==>]	[1]	
<i>Comments: 2940s gives S/N~50 at 1530A</i> 2940/4 = 735s per FPPOS BFT = 745 * 2/3 = 496										

