



16324 - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

Cycle: 28, 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 DARK	COS/FUV COS/NUV S/C	3	05-Nov-2021 09:00:21.0	yes
02	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	05-Nov-2021 09:00:23.0	yes
03	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	05-Nov-2021 09:00:25.0	yes
53	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	05-Nov-2021 09:00:27.0	yes

Proposal 16324 (STScI Edit Number: 4, Created: Friday, November 5, 2021 at 8:00:43 AM 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>
04	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	05-Nov-2021 09:00:29.0	yes
05	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	05-Nov-2021 09:00:31.0	yes
06	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	05-Nov-2021 09:00:33.0	yes
07	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	05-Nov-2021 09:00:35.0	yes
08	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	05-Nov-2021 09:00:38.0	yes
09	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	05-Nov-2021 09:00:39.0	yes
10	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	05-Nov-2021 09:00:41.0	yes
11	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	05-Nov-2021 09:00:42.0	yes

31 Total Orbits Used

ABSTRACT

The FUV gratings are the most used modes on COS. They have experienced changes in sensitivity since the instrument was installed. The trends in the time-dependent spectroscopic sensitivity depend on the grating, segment and wavelength. This calibration proposal is to monitor the sensitivity

Proposal 16324 (STScI Edit Number: 4, Created: Friday, November 5, 2021 at 8:00:43 AM Eastern Standard Time) - Overview of each FUV grating mode at several cenwave settings on an approximately bi-monthly schedule, and to characterize the observed trends.

OBSERVING DESCRIPTION

As part of the standard monitoring sequence the standard stars, WD0308-565 and GD71, will be observed every two months (except for May-July, during which time GD71 is unavailable).

Each sequence consists of 5 orbits: a 3 orbit visit (target WD0308-565) that covers

G130M/1055/FUVA,
G130M/1222,
G130M/1291,
G130M/1327/FUVA,
G160M/1533/FUVB
G160M/1577/FUVB,
G160M/1623/FUVB,
G140L/800/FUVA
G140L/1105/FUVA,
G140L/1280,

and a 2 orbit visit (target GD71) that covers

G130M/1096/FUVB,
G160M/1533/FUVA,
G160M/1577/FUVA,
G160M/1623/FUVA.

These comprise the shortest and longest central wavelengths of the normal modes with each grating. Additionally, G130M/1055, and 1096 (the blue modes) and G130M/1291 are included. Also included is G160M/1577, which used to be the shortest cenwave before the introduction of G160M/1533 in Cycle 26. The observations will be done at LP4, except for G130M/1055 and G130M/1096, which will be done at LP2.

We have added TDS connection visits for G130M/1291 and 1327 at LP5 in visit 05, and for G140L/800 at LP3 in visit 03, to enable the calibration

Proposal 16324 (STScI Edit Number: 4, Created: Friday, November 5, 2021 at 8:00:43 AM Eastern Standard Time) - Overview of these cenwaves at new lifetime positions. The TDS connection exposures at LP3 in Visit 03 should temporarily not be calibrated.

The October visit 10 exposures will occur after the move to LP5 and LP3. G130M/1291 and 1300 exposures have been changed from LP4 to LP5, and G140L exposures have been changed from LP4 to LP3. G160M and G130M/1055/1096/1222 cenwaves are unchanged.

SNR requirements:

- The general requirement is for an SNR of 15 per resel at the wavelength of least sensitivity for the standard modes, and SNR of 15 per resel beyond some minimum wavelength for the blue modes and c1222. The G140L/800 and 1280 modes have slightly different criteria, to provide SNR of $>\sim 5$ per resel at wavelengths below ~ 1080 Ang.
- The aim is to obtain TDS calibration better than 2% for standard modes and 10% for blue modes.

ETC calculations:

- The ETC calculations use CALSPEC standard model versions wd0308_565_mod_003.fits and gd71_mod_010.fits against which the TDS model slopes are referenced.
- The ETC calculations are specified by requiring SNR of 15 at specific wavelengths, except for the following:
 - G140L/800 SNR of 6 per resel at 1045 Ang (only FUV A is used)
 - G140L/1280 SNR of 12 per resel at 1090 Ang (lies on FUV B)
- For the blue modes and c1222, the wavelengths specified for SNR of 15 are:
 - 990 Ang for c1096 (Only FUV B is used)
 - 1120 Ang for c1055 (lies on FUV A)
 - 1130 Ang for c1222 (lies on FUV B)

Time constraints:

- Complete monitoring sequence should occur every 2 months starting in December 2018.
- GD71 is unschedulable May-July 2018, and therefore that sequence will consist of only one visit.

The exposure times and organization of visits follows the scheme used in Cycle 27. As in Cycle 27, for all but one set of the WD0308-565 observations using G160M, the specifications now are SEGMENT=B (i.e. segment A is turned off). The one exception is the June sequence (visit

Proposal 16324 (STScI Edit Number: 4, Created: Friday, November 5, 2021 at 8:00:43 AM Eastern Standard Time) - Overview
07) for which the specifications are SEGMENT=BOTH for these modes, because GD71 is not available during this period.

Proposal 16324 - WD0308-DEC (01) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

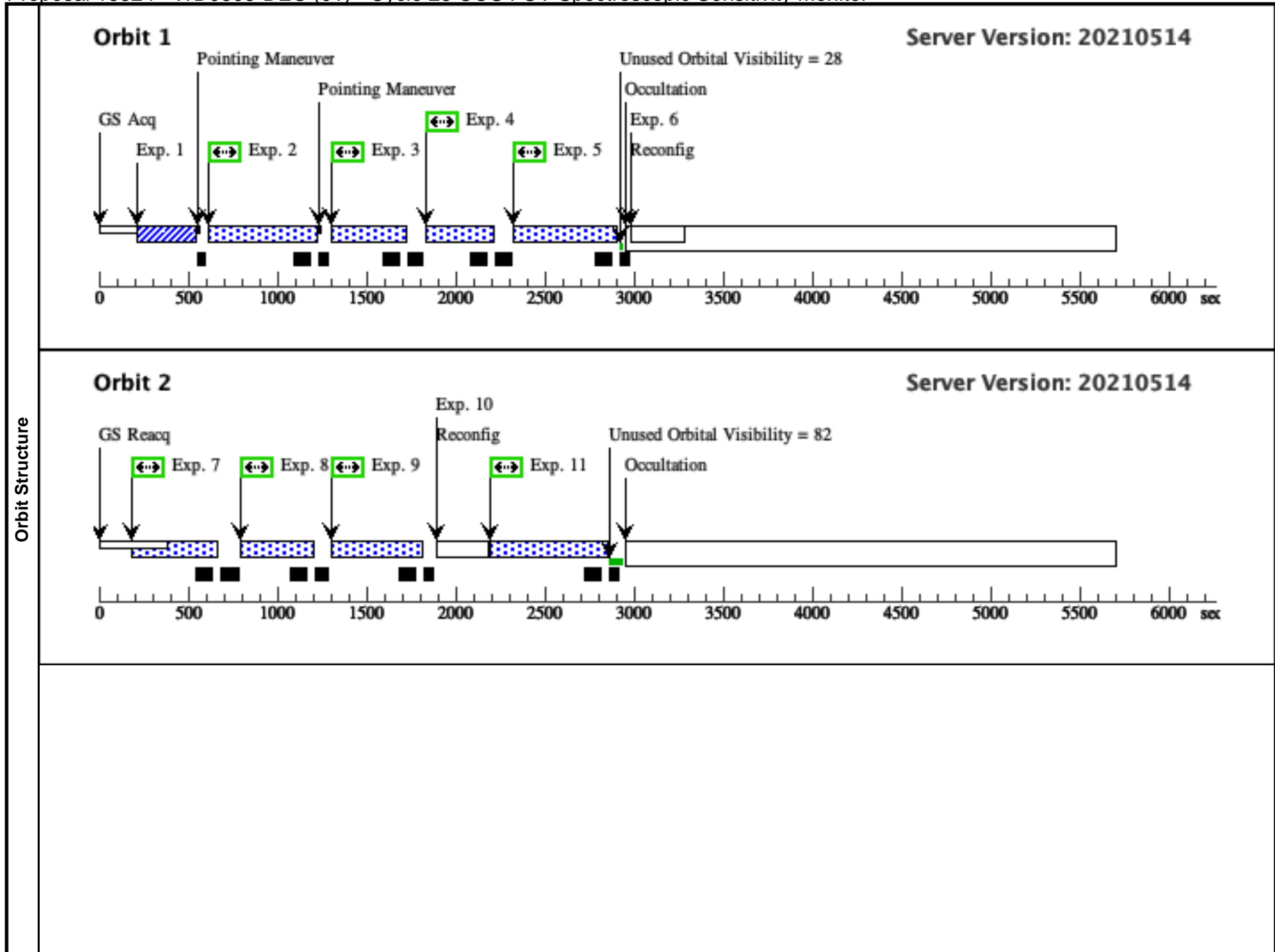
Visit	<p>Proposal 16324, WD0308-DEC (01), completed Fri Nov 05 13:00:43 GMT 2021</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 26-DEC-2020:00:00:00 AND 08-JAN-2021:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).</i></p>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(1)		WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS
<p><i>Comments: Coordinates carried over from Cycle 25 proposal, checked against SIMBAD, which uses the GAIA DR2 catalog. Proper motions changed to mas/yr, from SIMBAD, also using the GAIA DR2 catalog. Category=STAR Description=[DB] Extended=NO</i></p>						

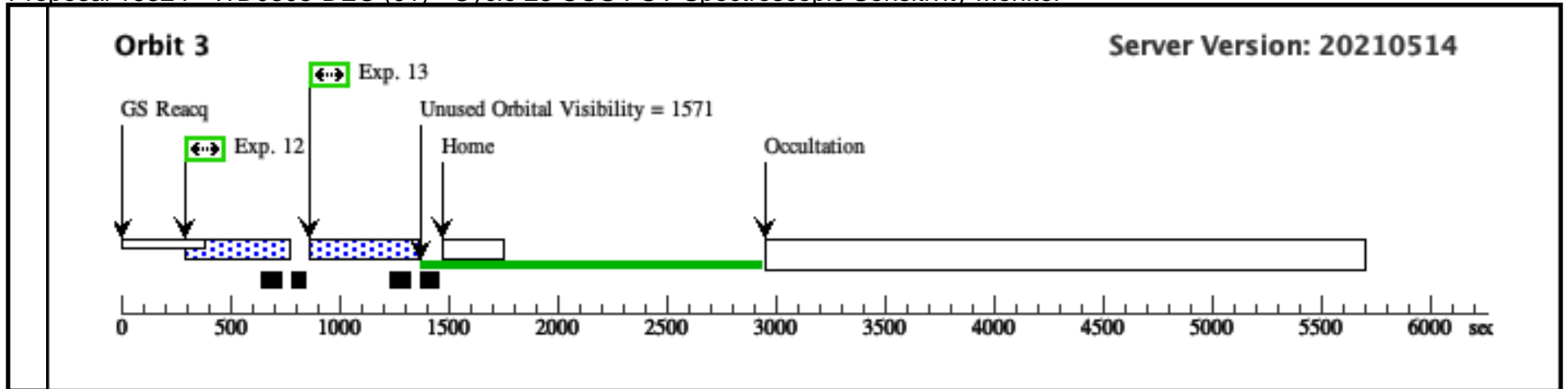
Proposal 16324 - WD0308-DEC (01) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested. Cycle 28 comment: we continue to use the same exposure time since differences do not affect orbit request.</i>									
	2	G130M/105 5/LP2 (COS.sp.145 7645)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=28 3; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2			393 Secs (393 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is 1831 sec Set buffer time = exptime - 110 sec</i>									
	3	G130M/122 2 (COS.sp.145 7646)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=15 7; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			267 Secs (267 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is 392 sec. Set buffer time = exptime - 110 sec</i>									
	4	G130M/129 1 (COS.sp.145 7647)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=12 6; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			236 Secs (236 Secs) [==>]	[1]
<i>Comments: ETC buffer time is 323 sec. Set buffer time = exptime - 110 sec</i>										
5	G140L/1280 (COS.sp.145 7781)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=25 6; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			366 Secs (366 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 460 sec. Set buffer time = exptime - 110 sec</i>										
6		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]	
<i>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i>										
7	G160M/153 3/B (COS.sp.145 7649)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=11 3; LIFETIME-POS=L P4; SEGMENT=B			223 Secs (223 Secs) [==>]	[2]	
<i>Comments: ETC buffer time is 502 sec. Set buffer time = exptime - 110 sec.</i>										

Proposal 16324 - WD0308-DEC (01) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

8	G160M/157 7/B (COS.sp.145 7650)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=16 5; LIFETIME-POS=L P4; SEGMENT=B	275 Secs (275 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 606 sec. Set buffer time = exptime - 110 sec</p>							
9	G160M/162 3/B (COS.sp.145 7651)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 2; LIFETIME-POS=L P4; SEGMENT=B	372 Secs (372 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 760 sec. Set buffer time = exptime - 110 sec</p>							
10	DARK		S/C, DATA, NONE		QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[2]
<p>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</p>							
11	G140L/800/ FUVA (COS.sp.145 7778)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=25 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	367 Secs (367 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 350 sec. Set buffer time = exptime - 110 sec</p>							
12	G140L/1105 /FUVA (COS.sp.145 7846)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	332 Secs (332 Secs) [==>]	[3]
<p>Comments: ETC buffer time is 358 sec. Set buffer time = exptime - 110 sec</p>							
13	G130M/132 7/FUVA (COS.sp.145 7657)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=16 4; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	274 Secs (274 Secs) [==>]	[3]
<p>Comments: ETC buffer time is 324 sec. set buffer time = exptime - 110 sec</p>							





Proposal 16324 - GD71-DEC (02) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

Fri Nov 05 13:00:43 GMT 2021

Visit	<p>Proposal 16324, GD71-DEC (02), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 26-DEC-2020:00:00:00 AND 08-JAN-2021:00:00:00</p> <p><i>Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation</i></p> <p><i>George Chapman added Exposure 3</i></p> <p><i>All G160M observations are with SEGMENT = A (i.e. segment B is turned off).</i></p>																												
	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>(2)</td> <td>GD71</td> <td>RA: 05 52 27.6200 (88.1150833d)</td> <td>Proper Motion RA: 76.841 mas/yr</td> <td>V=13.06+/-0.01</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td></td> <td>Dec: +15 53 13.23 (15.88701d)</td> <td>Proper Motion Dec: -172.944 mas/yr</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Equinox: J2000</td> <td>Epoch of Position: 2000</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments: Co-ordinates and proper motions updated with values from SIMBAD, which uses the GAIA DR2 catalog. Differences from previous co-ordinates are in decimal places in seconds of time and arcsec, within the stated errors.</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[DA]</i></p> <p><i>Extended=NO</i></p>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	GD71	RA: 05 52 27.6200 (88.1150833d)	Proper Motion RA: 76.841 mas/yr	V=13.06+/-0.01	Reference Frame: ICRS			Dec: +15 53 13.23 (15.88701d)	Proper Motion Dec: -172.944 mas/yr					Equinox: J2000	Epoch of Position: 2000	
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																							
(2)	GD71	RA: 05 52 27.6200 (88.1150833d)	Proper Motion RA: 76.841 mas/yr	V=13.06+/-0.01	Reference Frame: ICRS																								
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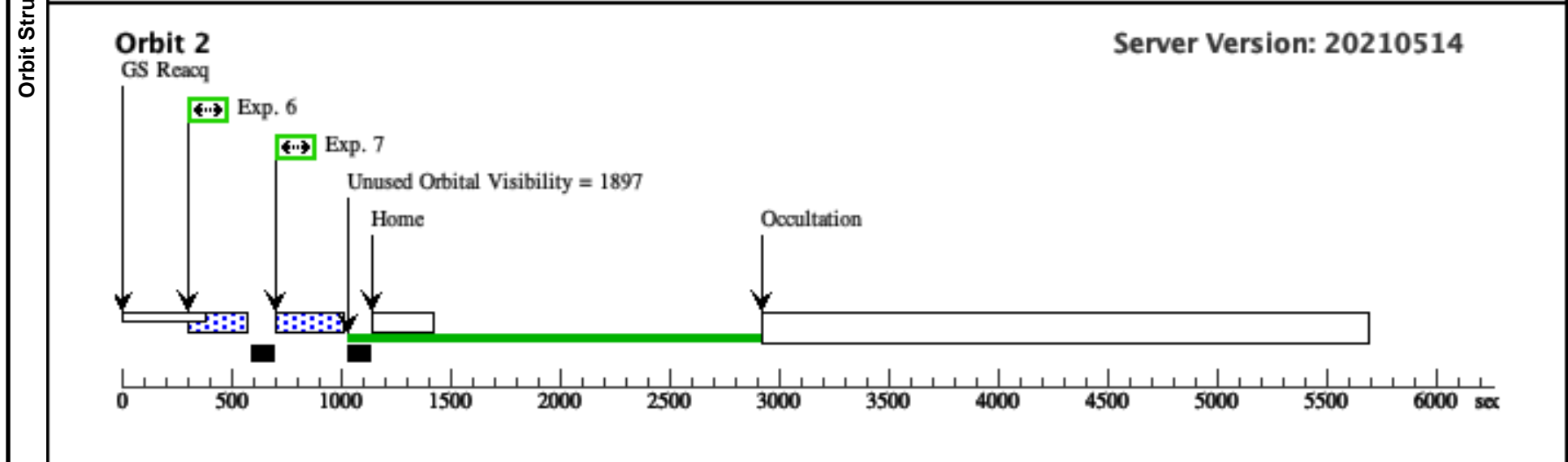
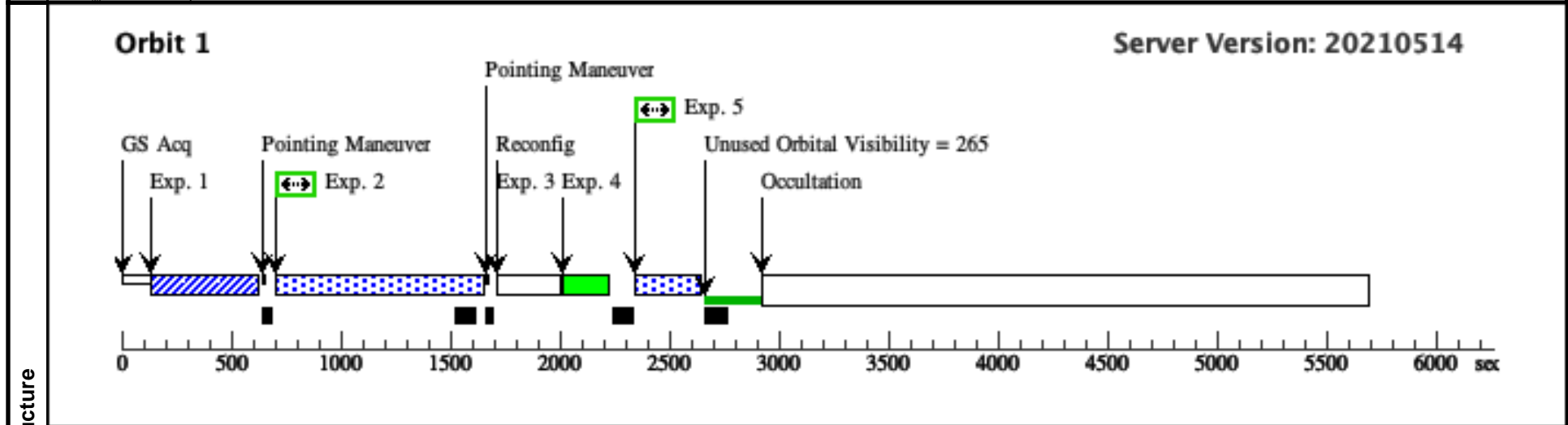
Proposal 16324 - GD71-DEC (02) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (2) GD71 (COS.ta.839 574)	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs) [==>]	[1]
<p>Comments: Exptime for S/N of 60 is 105.5 sec, using 90 sec leads to S/N of 55. Cycle 28 comment: we continue to use the same exposure time since differences do not affect orbit request.</p>									
2	G130M/109 (2) GD71 6/FUVB/LP 2 (COS.sp.145 7659)	(2) GD71	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=63 4; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			744 Secs (744 Secs) [==>]	[1]
<p>Comments: FUVB only (all ETC warnings come from FUVA). The FUVB count rate is 585 cts/sec, so the buffer time is $2.35E6/585 = 4017$ sec. Set buffer-time = exptime - 110 sec</p>									
3		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]
<p>Comments: Work-around to efficiently schedule the SEG-B to SEG-A reconfiguration. Eliminates SPSS induced gaps.</p>									
4	G130M/109 WAVE 6/FUVA W AVECAL/L P2	WAVE	COS/FUV, TIME-TAG, WCA	G130M 1096 A	FP-POS=3; SEGMENT=A; FLASH=NO; LIFETIME-POS=L P2			160 Secs (160 Secs) [==>]	[1]
<p>Comments: Cycle 28: the exposure time has been updated to 160 seconds. This was determined after characterizing the decrease by about 12 percent in the summed count-rate with time over the period between December 2017 and April 2020.</p>									
5	G160M/153 (2) GD71 3/FUVA (COS.sp.145 7660)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 6; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			106 Secs (106 Secs) [==>]	[1]
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 9240 cts/sec, so the buffer time is $2.35E6/9240 = 254$ sec. Set buffer-time = exptime</p>									
6	G160M/157 (2) GD71 7/FUVA (COS.sp.145 7661)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=13 5; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			135 Secs (135 Secs) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 6674 cts/sec, so the buffer time is $2.35E6/6674 = 352$ sec. Set buffer-time = exptime</p>									

Exposures

Proposal 16324 - GD71-DEC (02) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

7	G160M/162 (2) GD71 3/FUVA (COS.sp.145 7663)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=17 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	177 Secs (177 Secs) [==>]	[2]
	<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 5095 cts/sec, so the buffer time is $2.35E6/5095 = 461$ sec. Set buffer-time = exptime</p>					



Proposal 16324 - WD0308-FEB (03) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

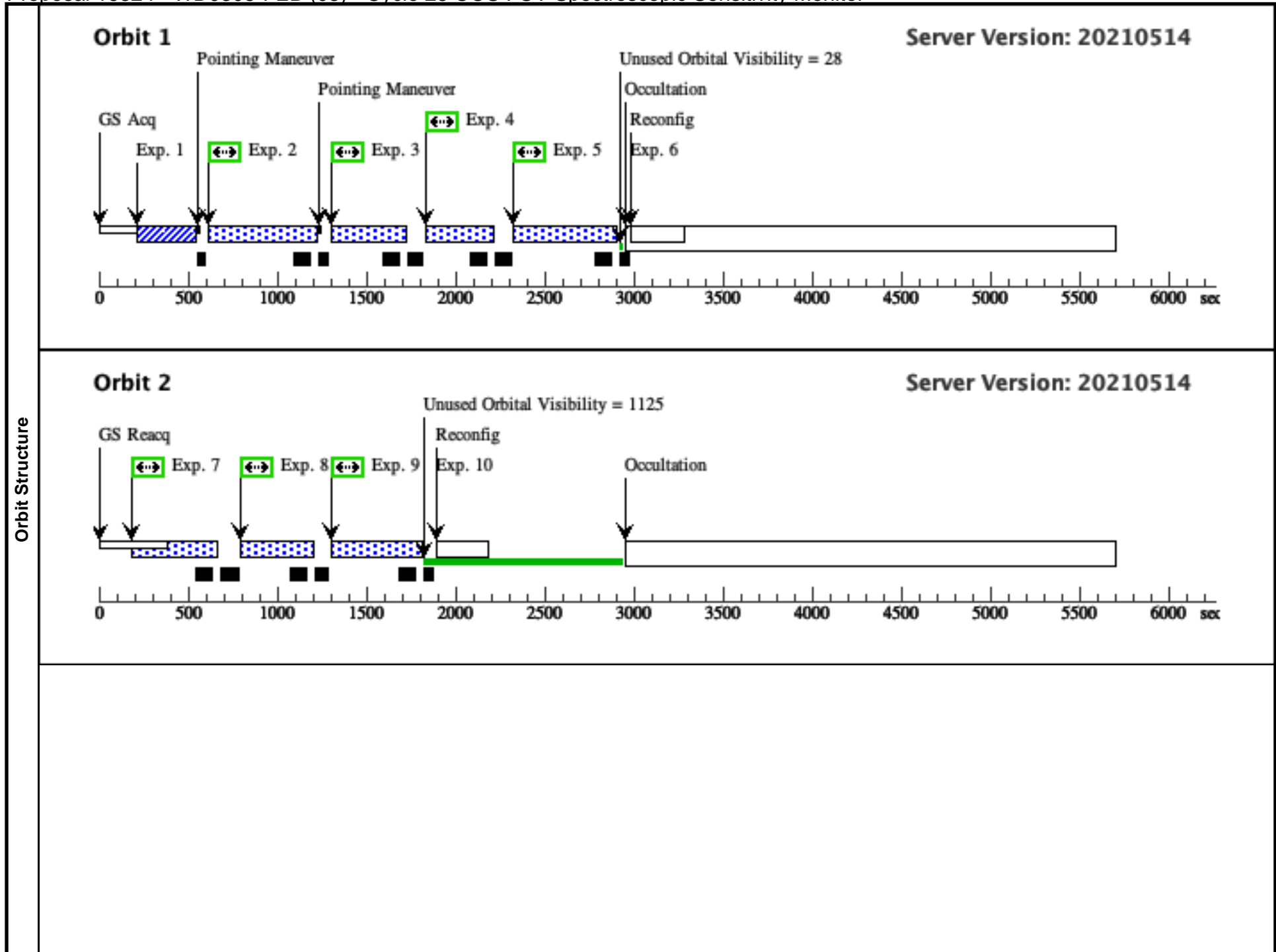
Visit	<p>Proposal 16324, WD0308-FEB (03), failed Fri Nov 05 13:00:43 GMT 2021</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 18-FEB-2021:00:00:00 AND 27-FEB-2021:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).</i></p>												
	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: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000</td> <td>V=14.07+/-0.02</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Coordinates carried over from Cycle 25 proposal, checked against SIMBAD, which uses the GAIA DR2 catalog. Proper motions changed to mas/yr, from SIMBAD, also using the GAIA DR2 catalog. Category=STAR Description=[DB] Extended=NO</i></p>	#	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: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000	V=14.07+/-0.02
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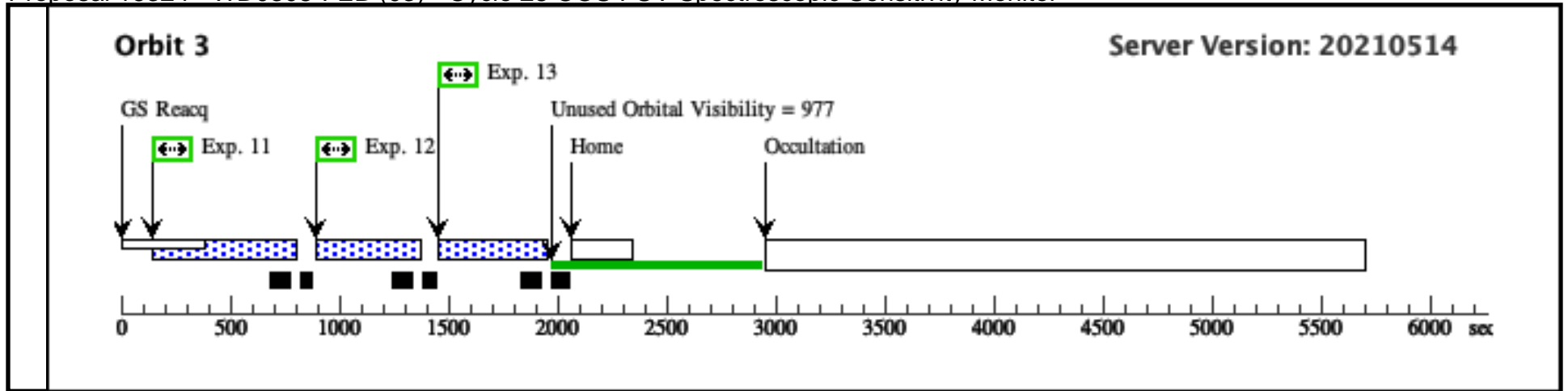
Proposal 16324 - WD0308-FEB (03) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: See Visit 01 comments.</i>									
	2	G130M/105 5/LP2 (COS.sp.145 7645)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=28 3; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2		393 Secs (393 Secs) [==>]	[1]	
	<i>Comments: See Visit 01 comments.</i>									
	3	G130M/122 2 (COS.sp.145 7646)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=15 7; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH		267 Secs (267 Secs) [==>]	[1]	
	<i>Comments: See Visit 01 comments.</i>									
	4	G130M/129 1 (COS.sp.145 7647)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=12 6; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH		236 Secs (236 Secs) [==>]	[1]	
<i>Comments: See Visit 01 comments.</i>										
5	G140L/1280 (COS.sp.145 7781)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=25 6; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH		366 Secs (366 Secs) [==>]	[1]		
<i>Comments: See Visit 01 comments.</i>										
6		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]	
<i>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i>										
7	G160M/153 3/B (COS.sp.145 7649)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=11 3; LIFETIME-POS=L P4; SEGMENT=B		223 Secs (223 Secs) [==>]	[2]		
<i>Comments: See Visit 01 comments.</i>										

Proposal 16324 - WD0308-FEB (03) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

8	G160M/157 7/B (COS.sp.145 7650)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=16 5; LIFETIME-POS=L P4; SEGMENT=B	275 Secs (275 Secs) [==>]	[2]
<i>Comments: See Visit 01 comments.</i>							
9	G160M/162 3/B (COS.sp.145 7651)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 2; LIFETIME-POS=L P4; SEGMENT=B	372 Secs (372 Secs) [==>]	[2]
<i>Comments: See Visit 01 comments.</i>							
10	DARK		S/C, DATA, NONE		QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[2]
<i>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i>							
11	G140L/800/ FUVA (COS.sp.145 7778)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=25 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	367 Secs (367 Secs) [==>]	[3]
<i>Comments: See Visit 01 comments.</i>							
12	G140L/1105 /FUVA (COS.sp.145 7846)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	332 Secs (332 Secs) [==>]	[3]
<i>Comments: See Visit 01 comments.</i>							
13	G130M/132 7/FUVA (COS.sp.145 7657)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=16 4; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	274 Secs (274 Secs) [==>]	[3]
<i>Comments: See Visit 01 comments.</i>							





Proposal 16324 - WD0308-FEB (53) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

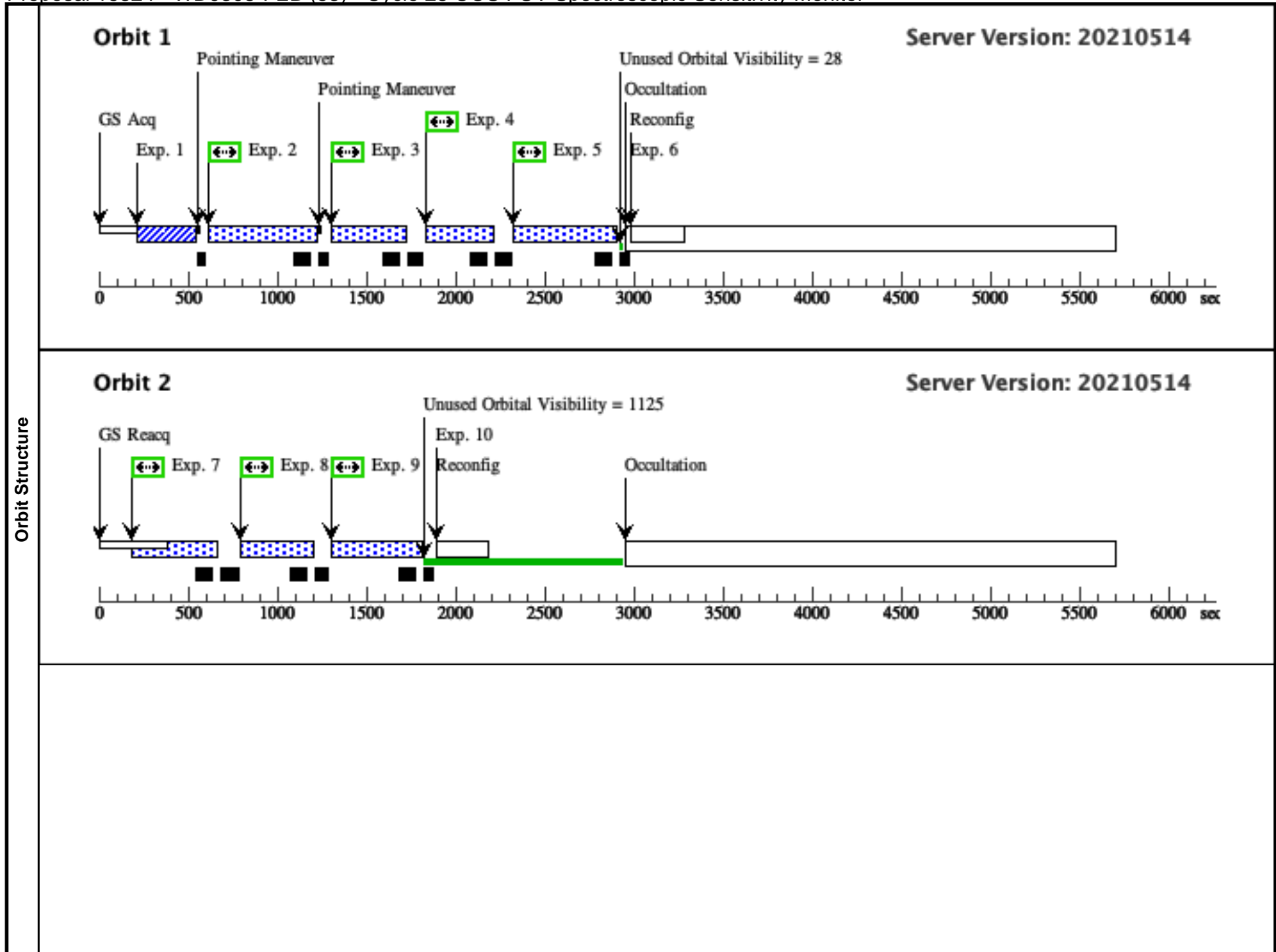
Visit	<p>Proposal 16324, WD0308-FEB (53), completed Fri Nov 05 13:00:44 GMT 2021</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).</i></p>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(1)		WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS
<p><i>Comments: Coordinates carried over from Cycle 25 proposal, checked against SIMBAD, which uses the GAIA DR2 catalog. Proper motions changed to mas/yr, from SIMBAD, also using the GAIA DR2 catalog. Category=STAR Description=[DB] Extended=NO</i></p>						

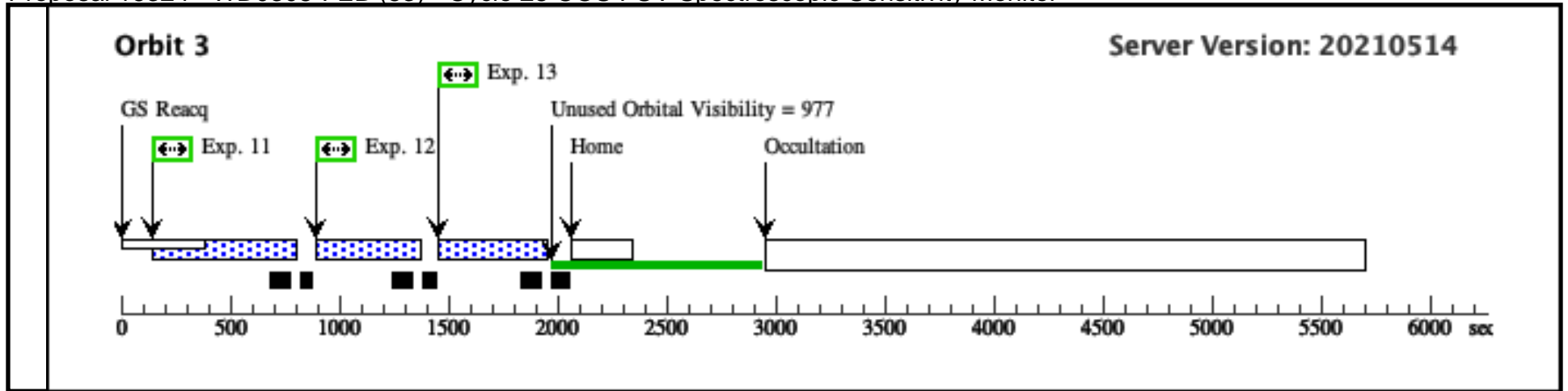
Proposal 16324 - WD0308-FEB (53) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: See Visit 01 comments.</i>									
	2	G130M/105 5/LP2 (COS.sp.145 7645)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=28 3; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2			393 Secs (393 Secs) [==>]	[1]
	<i>Comments: See Visit 01 comments.</i>									
	3	G130M/122 2 (COS.sp.145 7646)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=15 7; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			267 Secs (267 Secs) [==>]	[1]
	<i>Comments: See Visit 01 comments.</i>									
	4	G130M/129 1 (COS.sp.145 7647)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=12 6; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			236 Secs (236 Secs) [==>]	[1]
	<i>Comments: See Visit 01 comments.</i>									
5	G140L/1280 (COS.sp.145 7781)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=25 6; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			366 Secs (366 Secs) [==>]	[1]	
<i>Comments: See Visit 01 comments.</i>										
6		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]	
<i>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i>										
7	G160M/153 3/B (COS.sp.145 7649)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=11 3; LIFETIME-POS=L P4; SEGMENT=B			223 Secs (223 Secs) [==>]	[2]	
<i>Comments: See Visit 01 comments.</i>										

Proposal 16324 - WD0308-FEB (53) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

8	G160M/157 7/B (COS.sp.145 7650)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=16 5; LIFETIME-POS=L P4; SEGMENT=B	275 Secs (275 Secs) [==>]	[2]
<i>Comments: See Visit 01 comments.</i>							
9	G160M/162 3/B (COS.sp.145 7651)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 2; LIFETIME-POS=L P4; SEGMENT=B	372 Secs (372 Secs) [==>]	[2]
<i>Comments: See Visit 01 comments.</i>							
10	DARK		S/C, DATA, NONE		QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[2]
<i>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i>							
11	G140L/800/ FUVA (COS.sp.145 7778)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=25 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	367 Secs (367 Secs) [==>]	[3]
<i>Comments: See Visit 01 comments.</i>							
12	G140L/1105 /FUVA (COS.sp.145 7846)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	332 Secs (332 Secs) [==>]	[3]
<i>Comments: See Visit 01 comments.</i>							
13	G130M/132 7/FUVA (COS.sp.145 7657)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=16 4; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	274 Secs (274 Secs) [==>]	[3]
<i>Comments: See Visit 01 comments.</i>							





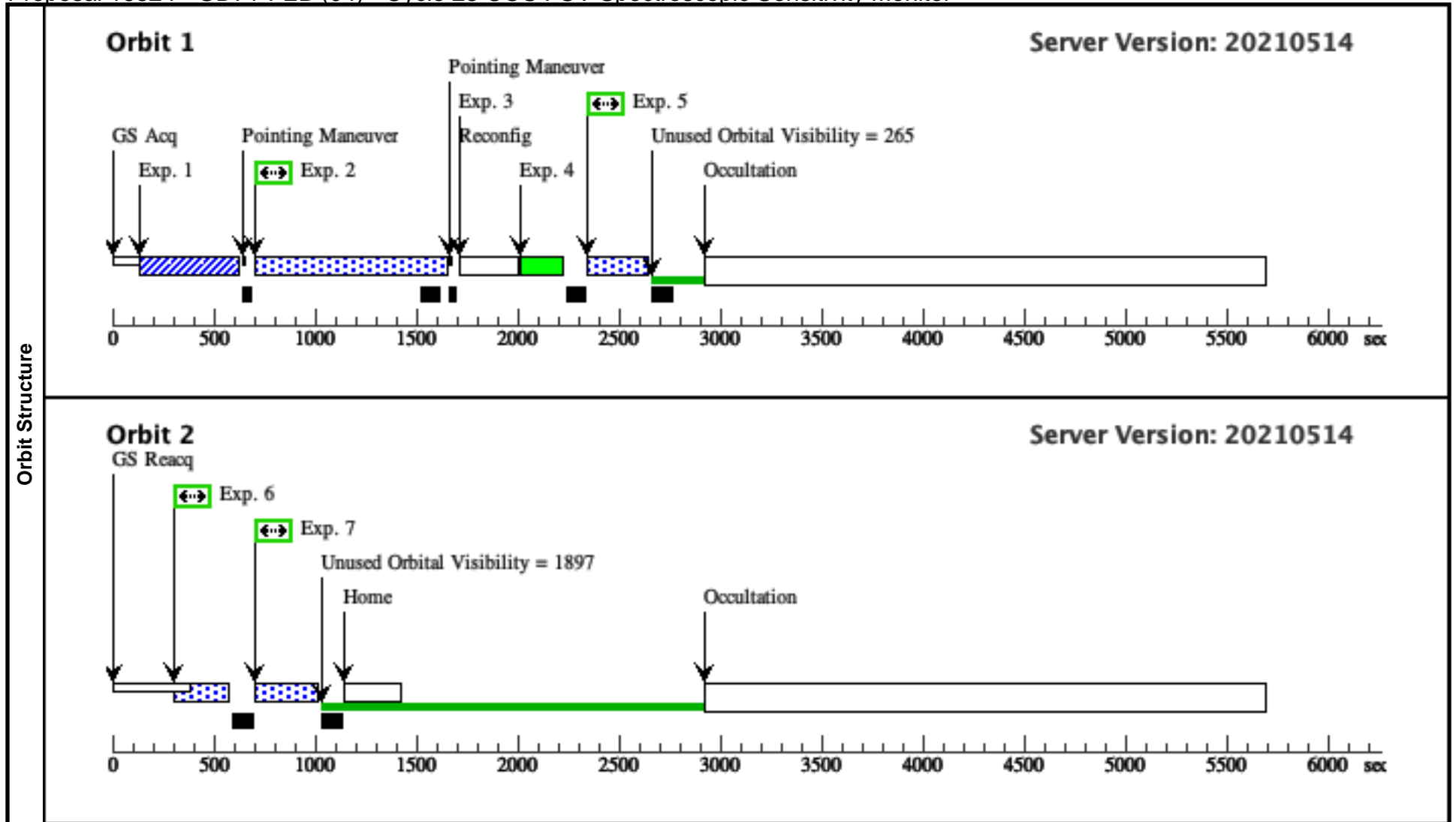
Proposal 16324 - GD71-FEB (04) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

Fri Nov 05 13:00:44 GMT 2021

Visit	<p>Proposal 16324, GD71-FEB (04), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 18-FEB-2021:00:00:00 AND 27-FEB-2021:00:00:00</p> <p><i>Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation</i></p> <p><i>George Chapman added Exposure 3</i></p> <p><i>All G160M observations are with SEGMENT = A (i.e. segment B is turned off).</i></p>																												
	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>(2)</td> <td>GD71</td> <td>RA: 05 52 27.6200 (88.1150833d)</td> <td>Proper Motion RA: 76.841 mas/yr</td> <td>V=13.06+/-0.01</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td></td> <td>Dec: +15 53 13.23 (15.88701d)</td> <td>Proper Motion Dec: -172.944 mas/yr</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Equinox: J2000</td> <td>Epoch of Position: 2000</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments: Co-ordinates and proper motions updated with values from SIMBAD, which uses the GAIA DR2 catalog. Differences from previous co-ordinates are in decimal places in seconds of time and arcsec, within the stated errors.</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[DA]</i></p> <p><i>Extended=NO</i></p>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	GD71	RA: 05 52 27.6200 (88.1150833d)	Proper Motion RA: 76.841 mas/yr	V=13.06+/-0.01	Reference Frame: ICRS			Dec: +15 53 13.23 (15.88701d)	Proper Motion Dec: -172.944 mas/yr					Equinox: J2000	Epoch of Position: 2000	
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																							
(2)	GD71	RA: 05 52 27.6200 (88.1150833d)	Proper Motion RA: 76.841 mas/yr	V=13.06+/-0.01	Reference Frame: ICRS																								
		Dec: +15 53 13.23 (15.88701d)	Proper Motion Dec: -172.944 mas/yr																										
		Equinox: J2000	Epoch of Position: 2000																										

Proposal 16324 - GD71-FEB (04) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (COS.ta.839 574)	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB			90 Secs (90 Secs) [==>]	[1]	
	<i>Comments: See Visit 02 comments.</i>									
	2	G130M/109 6/FUVB/LP 2 (COS.sp.145 7659)	(2) GD71	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=63 4; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			744 Secs (744 Secs) [==>]	[1]
	<i>Comments: See Visit 02 comments.</i>									
	3		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]
	<i>Comments: Work-around to efficiently schedule the SEG-B to SEG-A reconfiguration. Eliminates SPSS induced gaps.</i>									
	4	G130M/109 6/FUVA W AVECAL/L P2	WAVE	COS/FUV, TIME-TAG, WCA	G130M 1096 A	FP-POS=3; SEGMENT=A; FLASH=NO; LIFETIME-POS=L P2			160 Secs (160 Secs) [==>]	[1]
<i>Comments: See Visit 02 comments.</i>										
5	G160M/153 3/FUVA (COS.sp.145 7660)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 6; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			106 Secs (106 Secs) [==>]	[1]	
<i>Comments: See Visit 02 comments.</i>										
6	G160M/157 7/FUVA (COS.sp.145 7661)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=13 5; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			135 Secs (135 Secs) [==>]	[2]	
<i>Comments: See Visit 02 comments.</i>										
7	G160M/162 3/FUVA (COS.sp.145 7663)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=17 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			177 Secs (177 Secs) [==>]	[2]	
<i>Comments: See Visit 02 comments.</i>										



Proposal 16324 - WD0308-APR (05) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

Visit	<p>Proposal 16324, WD0308-APR (05), completed Fri Nov 05 13:00:44 GMT 2021</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 10-APR-2021:00:00:00 AND 23-APR-2021:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).</i></p>												
	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: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000</td> <td>V=14.07+/-0.02</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Coordinates carried over from Cycle 25 proposal, checked against SIMBAD, which uses the GAIA DR2 catalog. Proper motions changed to mas/yr, from SIMBAD, also using the GAIA DR2 catalog. Category=STAR Description=[DB] Extended=NO</i></p>	#	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: 149.241 mas/yr Proper Motion Dec: 66.919 mas/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: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS								

Proposal 16324 - WD0308-APR (05) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

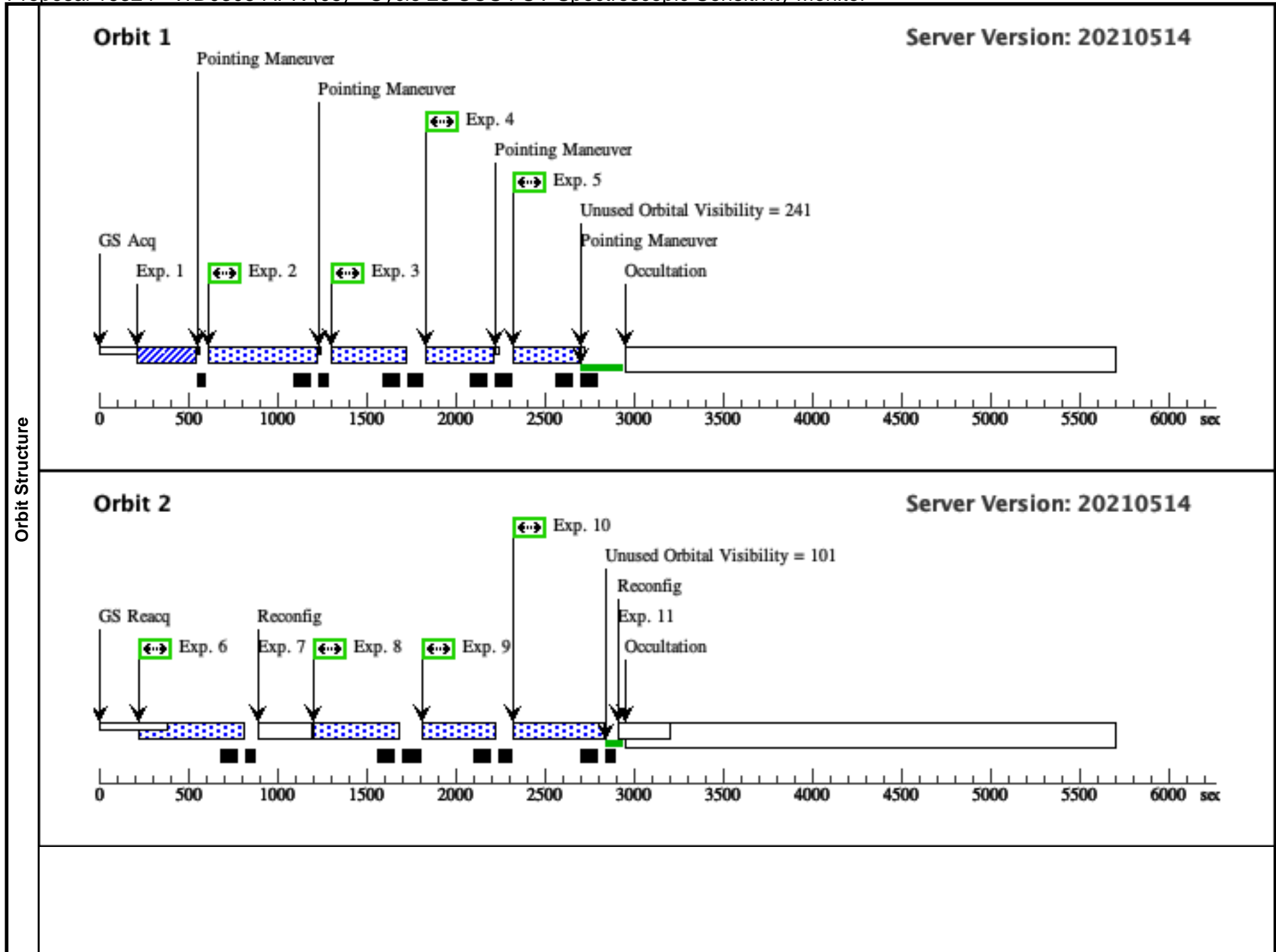
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: See Visit 01 comments.</i>									
	2	G130M/105 5/LP2 (COS.sp.145 7645)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=28 3; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2		393 Secs (393 Secs) [==>]	[1]	
	<i>Comments: See Visit 01 comments.</i>									
	3	G130M/122 2 (COS.sp.145 7646)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=15 7; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH		267 Secs (267 Secs) [==>]	[1]	
	<i>Comments: See Visit 01 comments.</i>									
	4	G130M/129 1 (COS.sp.145 7647)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=12 6; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH		236 Secs (236 Secs) [==>]	[1]	
	<i>Comments: See Visit 01 comments.</i>									
5	G130M/129 1 (COS.sp.145 7647)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=12 6; FP-POS=3; LIFETIME-POS=L P5; SEGMENT=BOTH		236 Secs (236 Secs) [==>]	[1]		
<i>Comments: See Visit 01 comments.</i>										
6	G140L/1280 (COS.sp.145 7781)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=25 6; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH		366 Secs (366 Secs) [==>]	[2]		
<i>Comments: See Visit 01 comments.</i>										
7		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[2]	
<i>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i>										

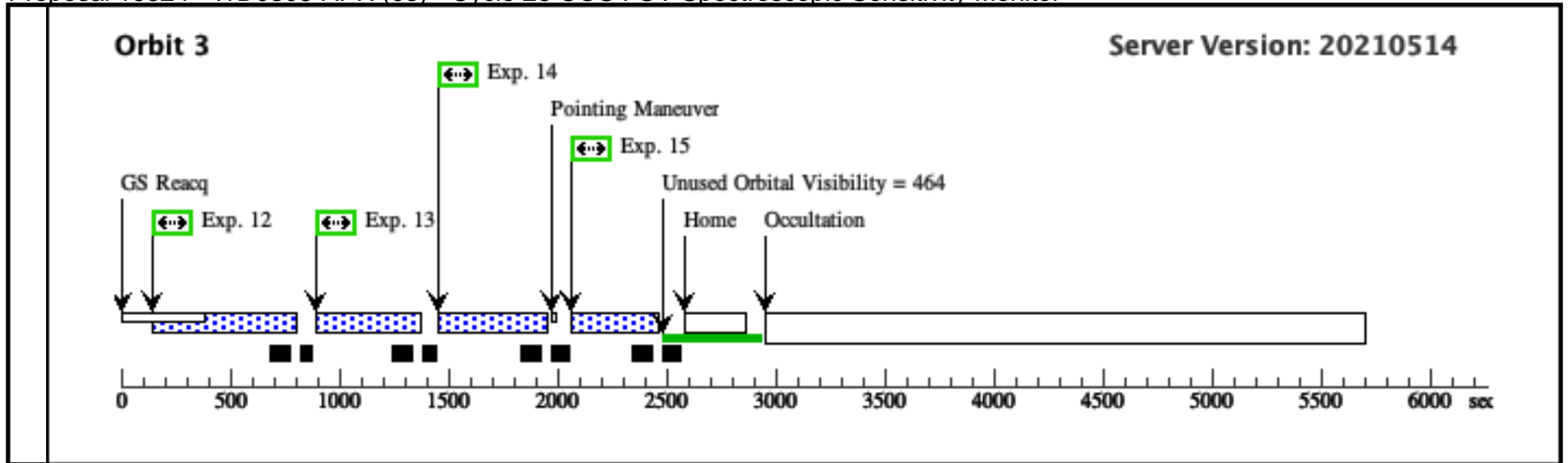
Proposal 16324 - WD0308-APR (05) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

8	G160M/153 3/B (COS.sp.145 7649)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=11 3; LIFETIME-POS=L P4; SEGMENT=B	223 Secs (223 Secs) [==>]	[2]
<i>Comments: See Visit 01 comments.</i>							
9	G160M/157 7/B (COS.sp.145 7650)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=16 5; LIFETIME-POS=L P4; SEGMENT=B	275 Secs (275 Secs) [==>]	[2]
<i>Comments: See Visit 01 comments.</i>							
10	G160M/162 3/B (COS.sp.145 7651)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 2; LIFETIME-POS=L P4; SEGMENT=B	372 Secs (372 Secs) [==>]	[2]
<i>Comments: See Visit 01 comments.</i>							
11	DARK		S/C, DATA, NONE		QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[2]
<i>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i>							
12	G140L/800/ FUVA (COS.sp.145 7778)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=25 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	367 Secs (367 Secs) [==>]	[3]
<i>Comments: See Visit 01 comments.</i>							
13	G140L/1105/ /FUVA (COS.sp.145 7846)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	332 Secs (332 Secs) [==>]	[3]
<i>Comments: See Visit 01 comments.</i>							
14	G130M/132 7/FUVA (COS.sp.145 7657)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=16 4; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	274 Secs (274 Secs) [==>]	[3]
<i>Comments: See Visit 01 comments.</i>							

Proposal 16324 - WD0308-APR (05) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

15	G130M/132 (1) WD0308-565 7/FUVA (COS.sp.145 7657)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=16 4; FP-POS=3; LIFETIME-POS=L P5; SEGMENT=A	274 Secs (274 Secs) [==>]	[3]
<i>Comments: See Visit 01 comments.</i>						





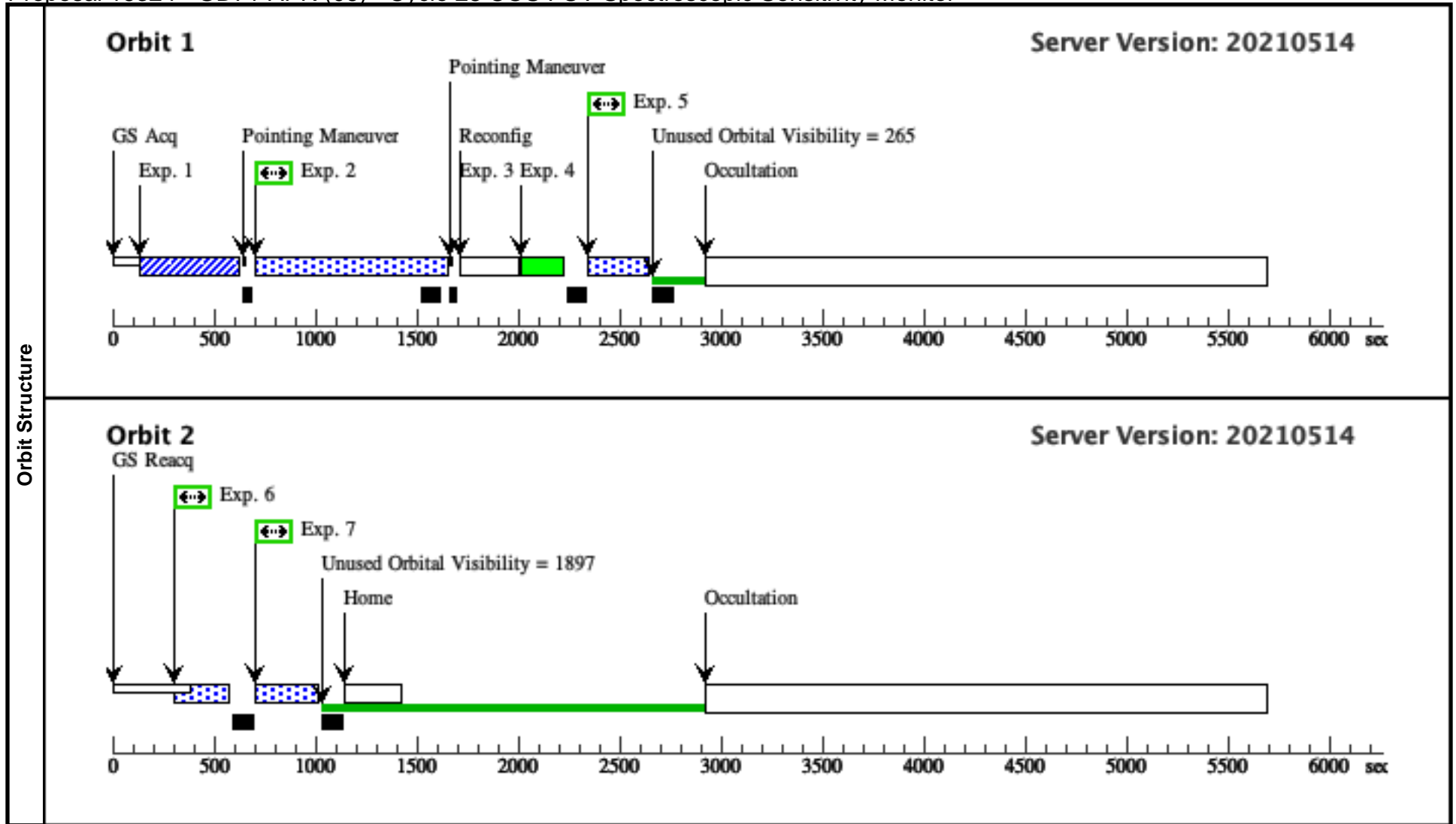
Proposal 16324 - GD71-APR (06) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

Fri Nov 05 13:00:44 GMT 2021

Visit	<p>Proposal 16324, GD71-APR (06), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 10-APR-2021:00:00:00 AND 23-APR-2021:00:00:00</p> <p><i>Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation</i></p> <p><i>George Chapman added Exposure 3</i></p> <p><i>All G160M observations are with SEGMENT = A (i.e. segment B is turned off).</i></p>																												
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#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																							
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Proposal 16324 - GD71-APR (06) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (COS.ta.839 574)	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB			90 Secs (90 Secs) [==>]	[1]	
	<i>Comments: See Visit 02 comments.</i>									
	2	G130M/109 6/FUVB/LP 2 (COS.sp.145 7659)	(2) GD71	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=63 4; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			744 Secs (744 Secs) [==>]	[1]
	<i>Comments: FUVB only (all ETC warnings come from FUVA). See Visit 02 comments.</i>									
	3		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]
	<i>Comments: Work-around to efficiently schedule the SEG-B to SEG-A reconfiguration. Eliminates SPSS induced gaps.</i>									
	4	G130M/109 6/FUVA W AVECAL/L P2	WAVE	COS/FUV, TIME-TAG, WCA	G130M 1096 A	FP-POS=3; SEGMENT=A; FLASH=NO; LIFETIME-POS=L P2			160 Secs (160 Secs) [==>]	[1]
<i>Comments: See Visit 02 comments.</i>										
5	G160M/153 3/FUVA (COS.sp.145 7660)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 6; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			106 Secs (106 Secs) [==>]	[1]	
<i>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</i>										
6	G160M/157 7/FUVA (COS.sp.145 7661)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=13 5; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			135 Secs (135 Secs) [==>]	[2]	
<i>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</i>										
7	G160M/162 3/FUVA (COS.sp.145 7663)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=17 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			177 Secs (177 Secs) [==>]	[2]	
<i>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</i>										



Proposal 16324 - WD0308-JUN (07) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

Fri Nov 05 13:00:44 GMT 2021

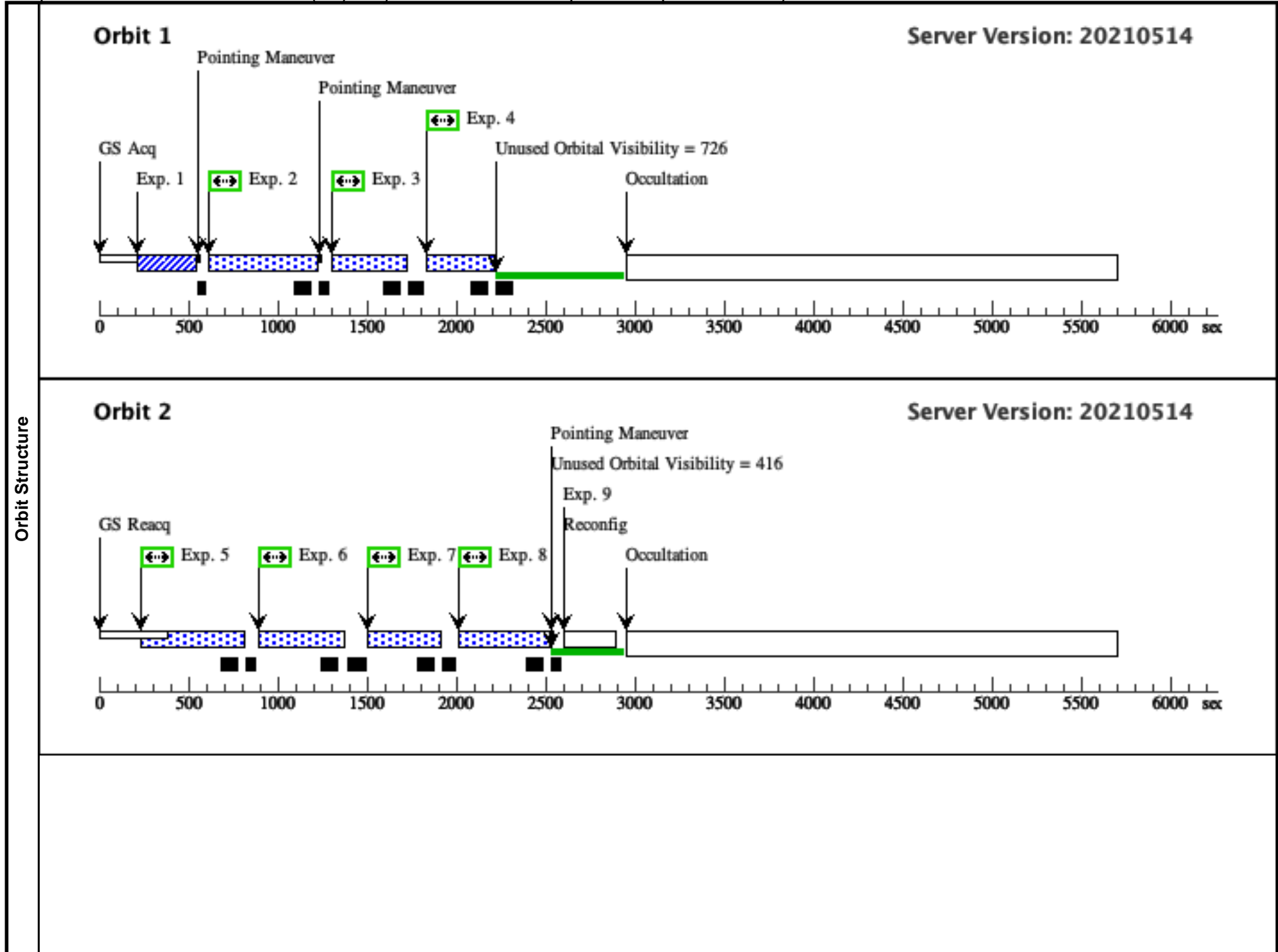
Visit	<p>Proposal 16324, WD0308-JUN (07), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 05-JUN-2021:00:00:00 AND 18-JUN-2021:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off) for all other WD0308-565 visits. However, for the June visit, since GD71 is not available, we use SEGMENT = BOTH to keep track of the segment A response, and the first DARK exposure (exp 006 in the other visits) has been removed.</i></p>												
	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: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000</td> <td>V=14.07+/-0.02</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Coordinates carried over from Cycle 25 proposal, checked against SIMBAD, which uses the GAIA DR2 catalog. Proper motions changed to mas/yr, from SIMBAD, also using the GAIA DR2 catalog.</i></p> <p>Category=STAR Description=[DB] Extended=NO</p>	#	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: 149.241 mas/yr Proper Motion Dec: 66.919 mas/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: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS								

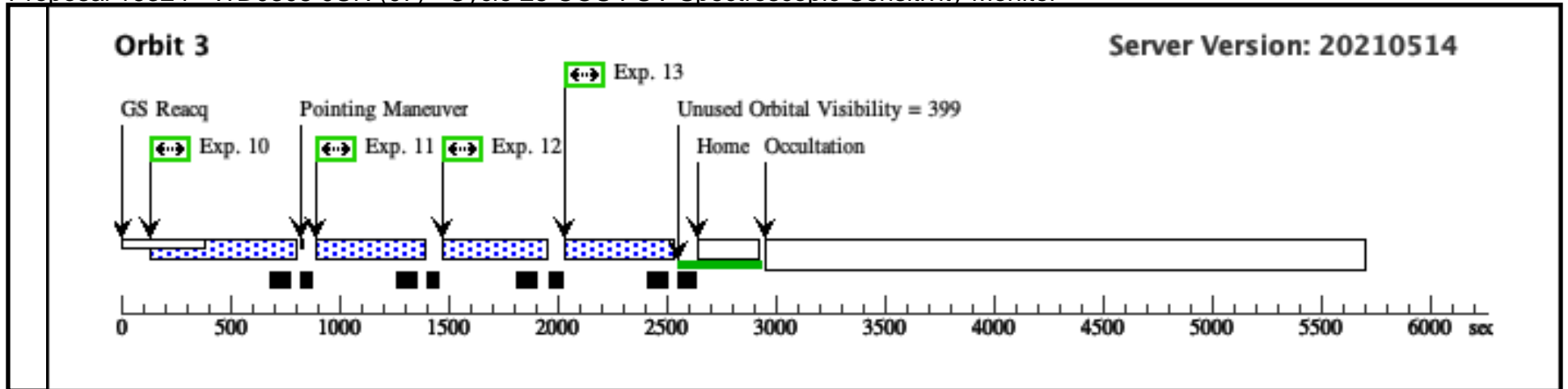
Proposal 16324 - WD0308-JUN (07) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: See Visit 01 comments.</i>									
	2	G130M/105 5/LP2 (COS.sp.145 7645)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=28 3; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2			393 Secs (393 Secs) [==>]	[1]
	<i>Comments: See Visit 01 comments.</i>									
	3	G130M/122 2 (COS.sp.145 7646)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=15 7; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			267 Secs (267 Secs) [==>]	[1]
	<i>Comments: See Visit 01 comments.</i>									
	4	G130M/129 1 (COS.sp.145 7647)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=12 6; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			236 Secs (236 Secs) [==>]	[1]
<i>Comments: See Visit 01 comments.</i>										
5	G140L/1280 (COS.sp.145 7781)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=25 6; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			366 Secs (366 Secs) [==>]	[2]	
<i>Comments: See Visit 01 comments.</i>										
6	G160M/153 3/Both (COS.sp.145 7649)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=11 3; LIFETIME-POS=L P4; SEGMENT=BOTH			223 Secs (223 Secs) [==>]	[2]	
<i>Comments: See Visit 01 comments.</i>										
7	G160M/157 7/Both (COS.sp.145 7650)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=16 5; LIFETIME-POS=L P4; SEGMENT=BOTH			275 Secs (275 Secs) [==>]	[2]	
<i>Comments: See Visit 01 comments.</i>										

Proposal 16324 - WD0308-JUN (07) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

8	G160M/162 3/Both (COS.sp.145 7651)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 2; LIFETIME-POS=L P4; SEGMENT=BOTH	372 Secs (372 Secs) [==>]	[2]
<i>Comments: See Visit 01 comments.</i>							
9	DARK		S/C, DATA, NONE		QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[2]
<i>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i>							
10	G140L/800/ FUVA (COS.sp.145 7778)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=25 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	367 Secs (367 Secs) [==>]	[3]
<i>Comments: See Visit 01 comments.</i>							
11	G140L/800/ FUVA (COS.sp.145 7778)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=25 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	367 Secs (367 Secs) [==>]	[3]
<i>Comments: See Visit 01 comments.</i>							
12	G140L/1105/ FUVA (COS.sp.145 7846)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	332 Secs (332 Secs) [==>]	[3]
<i>Comments: See Visit 01 comments.</i>							
13	G130M/132 7/FUVA (COS.sp.145 7657)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=16 4; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	274 Secs (274 Secs) [==>]	[3]
<i>Comments: See Visit 01 comments.</i>							





Proposal 16324 - WD0308-AUG (08) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

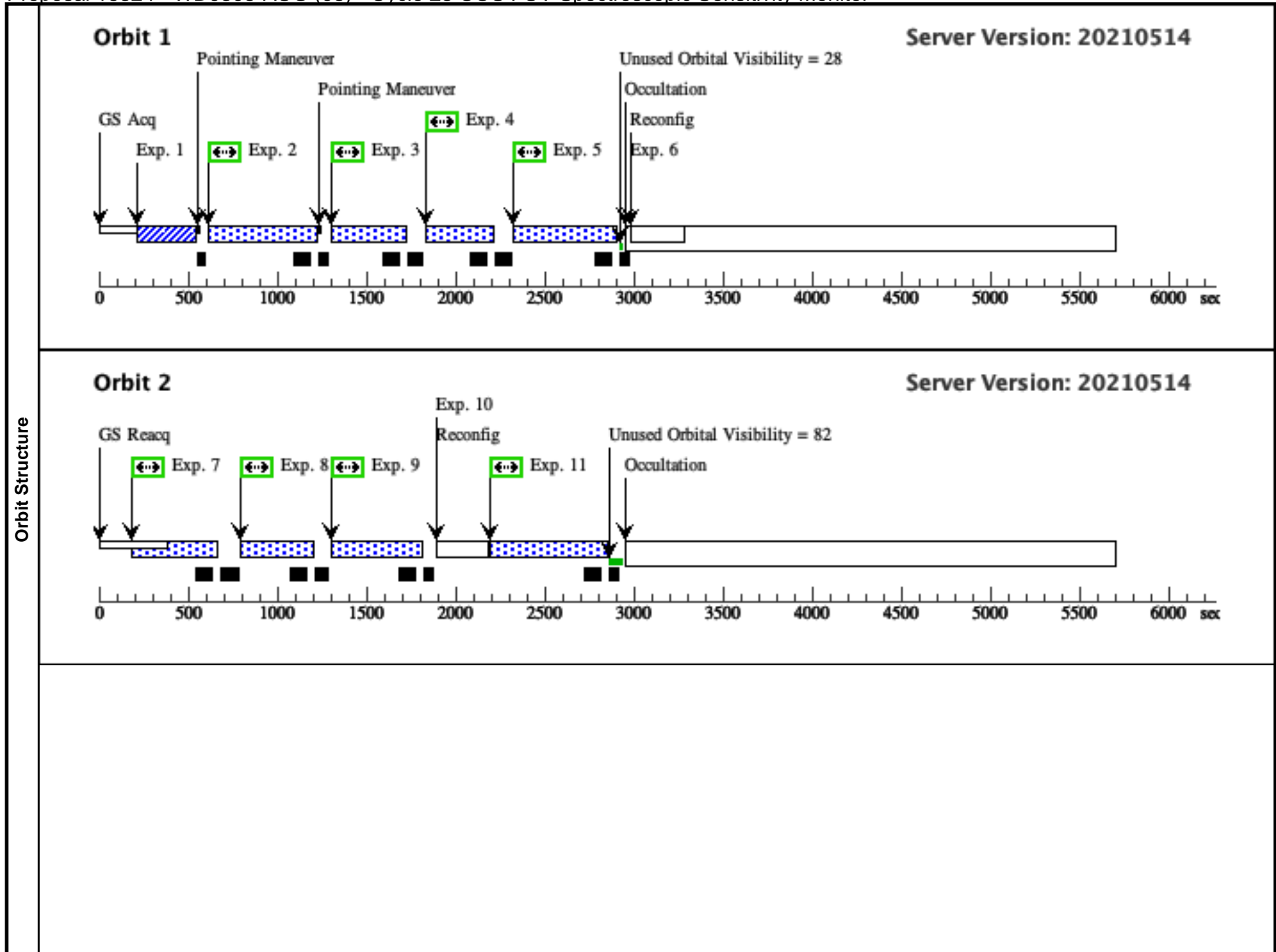
Visit	<p>Proposal 16324, WD0308-AUG (08), completed Fri Nov 05 13:00:44 GMT 2021</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 10-AUG-2021:00:00:00 AND 24-AUG-2021:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).</i></p>												
	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: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000</td> <td>V=14.07+/-0.02</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Coordinates carried over from Cycle 25 proposal, checked against SIMBAD, which uses the GAIA DR2 catalog. Proper motions changed to mas/yr, from SIMBAD, also using the GAIA DR2 catalog. Category=STAR Description=[DB] Extended=NO</i></p>	#	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: 149.241 mas/yr Proper Motion Dec: 66.919 mas/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: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS								

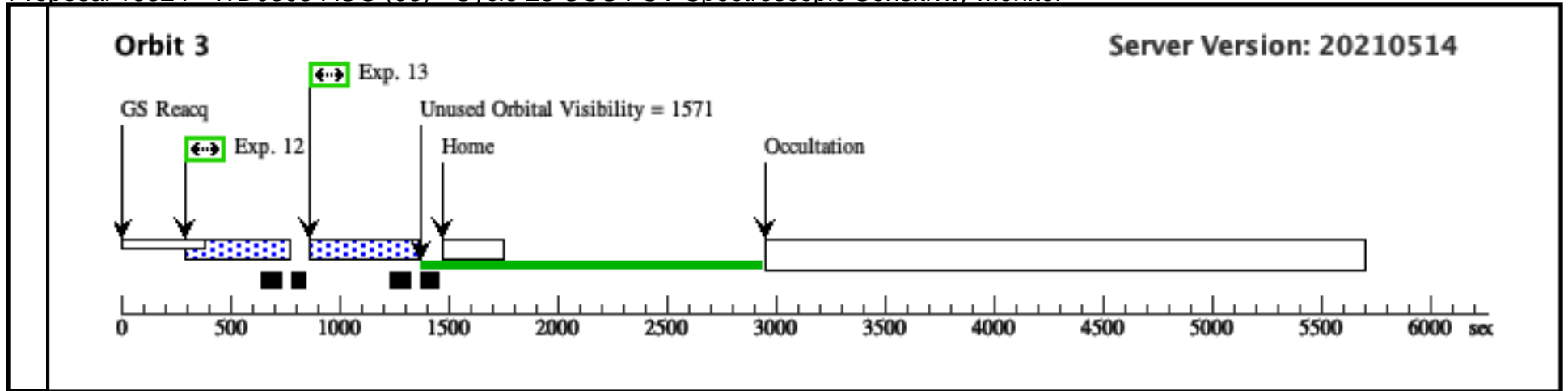
Proposal 16324 - WD0308-AUG (08) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: See Visit 01 comments.</i>									
	2	G130M/105 5/LP2 (COS.sp.145 7645)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=28 3; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2			393 Secs (393 Secs) [==>]	[1]
	<i>Comments: See Visit 01 comments.</i>									
	3	G130M/122 2 (COS.sp.145 7646)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=15 7; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			267 Secs (267 Secs) [==>]	[1]
	<i>Comments: See Visit 01 comments.</i>									
	4	G130M/129 1 (COS.sp.145 7647)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=12 6; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			236 Secs (236 Secs) [==>]	[1]
<i>Comments: See Visit 01 comments.</i>										
5	G140L/1280 (COS.sp.145 7781)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=25 6; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			366 Secs (366 Secs) [==>]	[1]	
<i>Comments: See Visit 01 comments.</i>										
6		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]	
<i>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i>										
7	G160M/153 3/B (COS.sp.145 7649)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=11 3; LIFETIME-POS=L P4; SEGMENT=B			223 Secs (223 Secs) [==>]	[2]	
<i>Comments: See Visit 01 comments.</i>										

Proposal 16324 - WD0308-AUG (08) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

8	G160M/157 7/B (COS.sp.145 7650)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=16 5; LIFETIME-POS=L P4; SEGMENT=B	275 Secs (275 Secs) [==>]	[2]
<i>Comments: See Visit 01 comments.</i>							
9	G160M/162 3/B (COS.sp.145 7651)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 2; LIFETIME-POS=L P4; SEGMENT=B	372 Secs (372 Secs) [==>]	[2]
<i>Comments: See Visit 01 comments.</i>							
10	DARK		S/C, DATA, NONE		QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[2]
<i>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i>							
11	G140L/800/ FUVA (COS.sp.145 7778)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=25 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	367 Secs (367 Secs) [==>]	[2]
<i>Comments: See Visit 01 comments.</i>							
12	G140L/1105 /FUVA (COS.sp.145 7846)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	332 Secs (332 Secs) [==>]	[3]
<i>Comments: See Visit 01 comments.</i>							
13	G130M/132 7/FUVA (COS.sp.145 7657)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=16 4; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	274 Secs (274 Secs) [==>]	[3]
<i>Comments: See Visit 01 comments.</i>							





Proposal 16324 - GD71-AUG (09) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

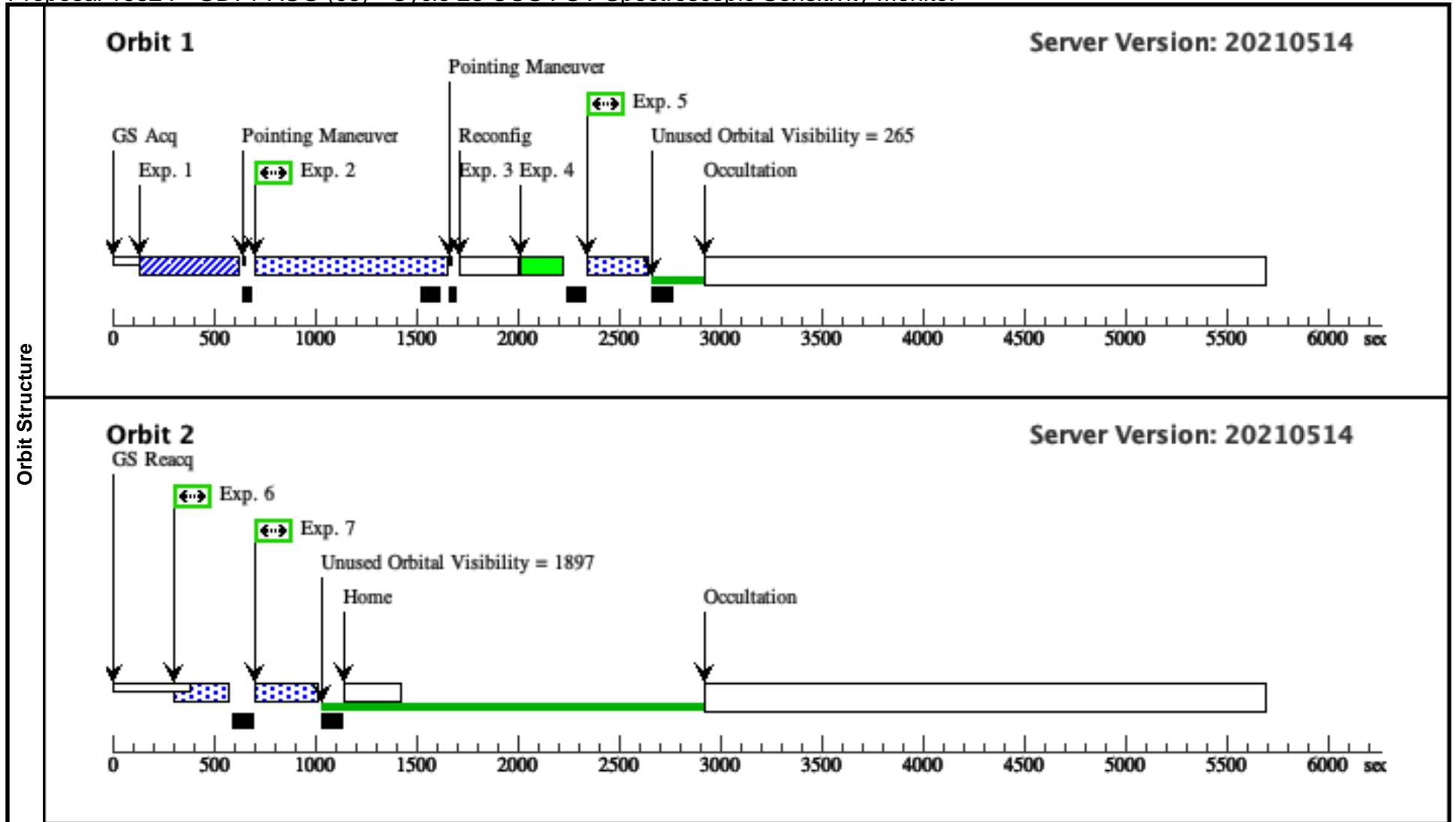
Fri Nov 05 13:00:44 GMT 2021

Visit	<p>Proposal 16324, GD71-AUG (09), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 15-AUG-2021:00:00:00 AND 29-AUG-2021:00:00:00</p> <p><i>Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation</i></p> <p><i>George Chapman added Exposure 3</i></p> <p><i>All G160M observations are with SEGMENT = A (i.e. segment B is turned off).</i></p>																
	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>(2)</td> <td>GD71</td> <td>RA: 05 52 27.6200 (88.1150833d) Dec: +15 53 13.23 (15.88701d) Equinox: J2000</td> <td>Proper Motion RA: 76.841 mas/yr Proper Motion Dec: -172.944 mas/yr Epoch of Position: 2000</td> <td>V=13.06+/-0.01</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Co-ordinates and proper motions updated with values from SIMBAD, which uses the GAIA DR2 catalog. Differences from previous co-ordinates are in decimal places in seconds of time and arcsec, within the stated errors.</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[DA]</i></p> <p><i>Extended=NO</i></p>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	GD71	RA: 05 52 27.6200 (88.1150833d) Dec: +15 53 13.23 (15.88701d) Equinox: J2000	Proper Motion RA: 76.841 mas/yr Proper Motion Dec: -172.944 mas/yr Epoch of Position: 2000	V=13.06+/-0.01
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(2)	GD71	RA: 05 52 27.6200 (88.1150833d) Dec: +15 53 13.23 (15.88701d) Equinox: J2000	Proper Motion RA: 76.841 mas/yr Proper Motion Dec: -172.944 mas/yr Epoch of Position: 2000	V=13.06+/-0.01	Reference Frame: ICRS												

Proposal 16324 - GD71-AUG (09) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

#	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.839 574)	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs) [==>]	[1]
<i>Comments: See Visit 02 comments.</i>									
2	G130M/109 6/FUVB/LP 2 (COS.sp.145 7659)	(2) GD71	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=63 4; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			744 Secs (744 Secs) [==>]	[1]
<i>Comments: FUVB only (all ETC warnings come from FUVA). See Visit 02 comments.</i>									
3		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]
<i>Comments: Work-around to efficiently schedule the SEG-B to SEG-A reconfiguration. Eliminates SPSS induced gaps.</i>									
4	G130M/109 6/FUVA W AVECAL/L P2	WAVE	COS/FUV, TIME-TAG, WCA	G130M 1096 A	FP-POS=3; SEGMENT=A; FLASH=NO; LIFETIME-POS=L P2			160 Secs (160 Secs) [==>]	[1]
<i>Comments: See Visit 02 comments.</i>									
5	G160M/153 3/FUVA (COS.sp.145 7660)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 6; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			106 Secs (106 Secs) [==>]	[1]
<i>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</i>									
6	G160M/157 7/FUVA (COS.sp.145 7661)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=13 5; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			135 Secs (135 Secs) [==>]	[2]
<i>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</i>									
7	G160M/162 3/FUVA (COS.sp.145 7663)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=17 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			177 Secs (177 Secs) [==>]	[2]
<i>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</i>									

Exposures



Proposal 16324 - WD0308-OCT (10) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

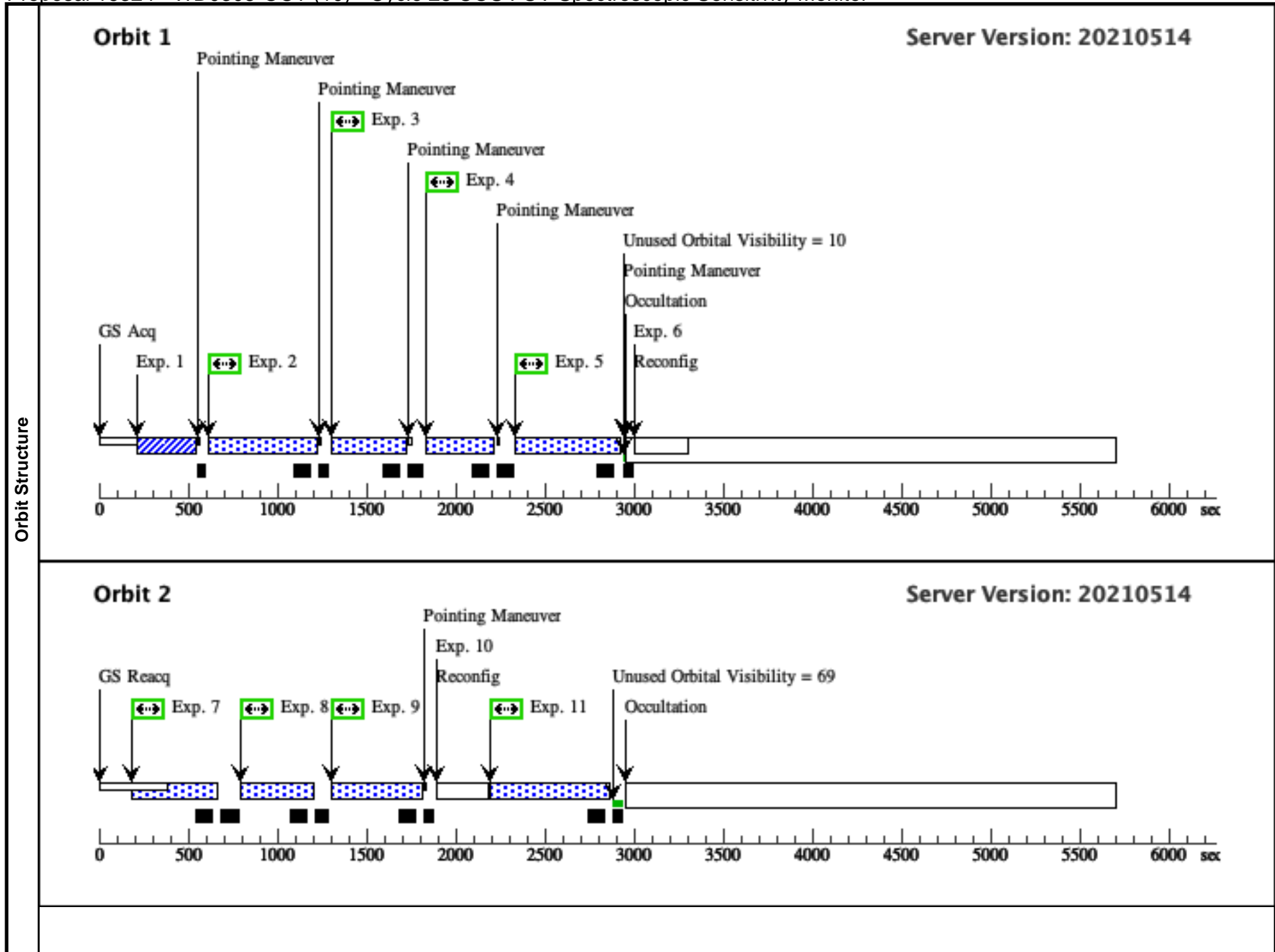
Visit	<p>Proposal 16324, WD0308-OCT (10), scheduling Fri Nov 05 13:00:44 GMT 2021</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 20-OCT-2021:00:00:00 AND 18-DEC-2021:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).</i></p>												
	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: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000</td> <td>V=14.07+/-0.02</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Coordinates carried over from Cycle 25 proposal, checked against SIMBAD, which uses the GAIA DR2 catalog. Proper motions changed to mas/yr, from SIMBAD, also using the GAIA DR2 catalog. Category=STAR Description=[DB] Extended=NO</i></p>	#	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: 149.241 mas/yr Proper Motion Dec: 66.919 mas/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: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS								

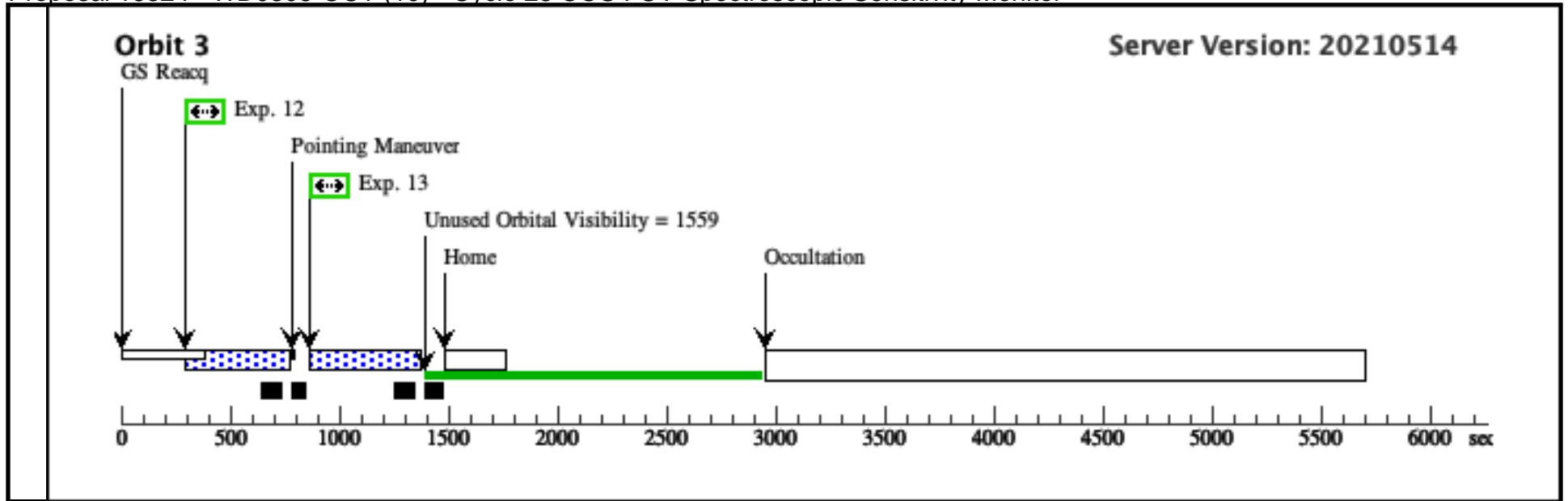
Proposal 16324 - WD0308-OCT (10) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: See Visit 01 comments.</i>									
	2	G130M/105 5/LP2 (COS.sp.145 7645)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=28 3; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2		393 Secs (393 Secs) [==>]	[1]	
	<i>Comments: See Visit 01 comments.</i>									
	3	G130M/122 2 (COS.sp.145 7646)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=15 7; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH		267 Secs (267 Secs) [==>]	[1]	
	<i>Comments: See Visit 01 comments.</i>									
	4	G130M/129 1 (COS.sp.145 7647)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=12 6; FP-POS=3; LIFETIME-POS=L P5; SEGMENT=BOTH		236 Secs (236 Secs) [==>]	[1]	
<i>Comments: See Visit 01 comments.</i>										
5	G140L/1280 (COS.sp.145 7781)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=25 6; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH		366 Secs (366 Secs) [==>]	[1]		
<i>Comments: See Visit 01 comments.</i>										
6		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[1]		
<i>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i>										
7	G160M/153 3/B (COS.sp.145 7649)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=11 3; LIFETIME-POS=L P4; SEGMENT=B		223 Secs (223 Secs) [==>]	[2]		
<i>Comments: See Visit 01 comments.</i>										

Proposal 16324 - WD0308-OCT (10) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

8	G160M/157 7/B (COS.sp.145 7650)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=16 5; LIFETIME-POS=L P4; SEGMENT=B	275 Secs (275 Secs) [==>]	[2]
<p><i>Comments: ETC buffer time is 606 sec. Set buffer time = exptime - 110 sec</i></p>							
9	G160M/162 3/B (COS.sp.145 7651)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 2; LIFETIME-POS=L P4; SEGMENT=B	372 Secs (372 Secs) [==>]	[2]
<p><i>Comments: See Visit 01 comments.</i></p>							
10	DARK		S/C, DATA, NONE		QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[2]
<p><i>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i></p>							
11	G140L/800/ FUVA (COS.sp.145 7778)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=25 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	367 Secs (367 Secs) [==>]	[2]
<p><i>Comments: See Visit 01 comments.</i></p>							
12	G140L/1105/ /FUVA (COS.sp.145 7846)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	332 Secs (332 Secs) [==>]	[3]
<p><i>Comments: See Visit 01 comments.</i></p>							
13	G130M/132 7/FUVA (COS.sp.145 7657)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=16 4; FP-POS=3; LIFETIME-POS=L P5; SEGMENT=A	274 Secs (274 Secs) [==>]	[3]
<p><i>Comments: See Visit 01 comments.</i></p>							





Proposal 16324 - GD71-OCT (11) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

Fri Nov 05 13:00:44 GMT 2021

Visit	<p>Proposal 16324, GD71-OCT (11), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 16-OCT-2021:00:00:00 AND 29-OCT-2021:00:00:00</p> <p><i>Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation</i></p> <p><i>George Chapman added Exposure 3</i></p> <p><i>All G160M observations are with SEGMENT = A (i.e. segment B is turned off).</i></p>																
	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>(2)</td> <td>GD71</td> <td>RA: 05 52 27.6200 (88.1150833d) Dec: +15 53 13.23 (15.88701d) Equinox: J2000</td> <td>Proper Motion RA: 76.841 mas/yr Proper Motion Dec: -172.944 mas/yr Epoch of Position: 2000</td> <td>V=13.06+/-0.01</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Co-ordinates and proper motions updated with values from SIMBAD, which uses the GAIA DR2 catalog. Differences from previous co-ordinates are in decimal places in seconds of time and arcsec, within the stated errors.</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[DA]</i></p> <p><i>Extended=NO</i></p>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	GD71	RA: 05 52 27.6200 (88.1150833d) Dec: +15 53 13.23 (15.88701d) Equinox: J2000	Proper Motion RA: 76.841 mas/yr Proper Motion Dec: -172.944 mas/yr Epoch of Position: 2000	V=13.06+/-0.01
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(2)	GD71	RA: 05 52 27.6200 (88.1150833d) Dec: +15 53 13.23 (15.88701d) Equinox: J2000	Proper Motion RA: 76.841 mas/yr Proper Motion Dec: -172.944 mas/yr Epoch of Position: 2000	V=13.06+/-0.01	Reference Frame: ICRS												

Proposal 16324 - GD71-OCT (11) - Cycle 28 COS FUV Spectroscopic Sensitivity Monitor

#	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.839 574)	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs) [==>]	[1]
<i>Comments: See Visit 02 comments.</i>									
2	G130M/109 6/FUVB/LP 2 (COS.sp.145 7659)	(2) GD71	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=63 4; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			744 Secs (744 Secs) [==>]	[1]
<i>Comments: FUVB only (all ETC warnings come from FUVA). See Visit 02 comments.</i>									
3		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]
<i>Comments: Work-around to efficiently schedule the SEG-B to SEG-A reconfiguration. Eliminates SPSS induced gaps.</i>									
4	G130M/109 6/FUVA W AVECAL/L P2	WAVE	COS/FUV, TIME-TAG, WCA	G130M 1096 A	FP-POS=3; SEGMENT=A; FLASH=NO; LIFETIME-POS=L P2			160 Secs (160 Secs) [==>]	[1]
<i>Comments: See Visit 02 comments.</i>									
5	G160M/153 3/FUVA (COS.sp.145 7660)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 6; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			106 Secs (106 Secs) [==>]	[1]
<i>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</i>									
6	G160M/157 7/FUVA (COS.sp.145 7661)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=13 5; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			135 Secs (135 Secs) [==>]	[2]
<i>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</i>									
7	G160M/162 3/FUVA (COS.sp.145 7663)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=17 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			177 Secs (177 Secs) [==>]	[2]
<i>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</i>									

Exposures

