



16830 - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

Cycle: 29, Proposal Category: CAL/COS

(Availability Mode: RESTRICTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Kate Rowlands (PI) (Contact)	Space Telescope Science Institute	krowlands@stsci.edu
Dr. Ravi Sankrit (CoI) (Contact)	Space Telescope Science Institute	rsankrit@stsci.edu
Elaine M Frazer (CoI) (Contact)	Space Telescope Science Institute	efrazer@stsci.edu
Dr. Marc Rafelski (CoI)	Space Telescope Science Institute	mrafelski@stsci.edu
Dr. Bethan Lesley James (CoI)	Space Telescope Science Institute - ESA - JWST	bjames@stsci.edu

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	26-Aug-2022 14:01:22.0	yes
02	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	26-Aug-2022 14:01:24.0	yes
03	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	26-Aug-2022 14:01:26.0	yes
53	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	26-Aug-2022 14:01:28.0	yes

Proposal 16830 (STScI Edit Number: 4, Created: Friday, August 26, 2022 at 1:01:53 PM 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	26-Aug-2022 14:01:29.0	yes
5A	(1) WD0308-565	COS/FUV COS/NUV	3	26-Aug-2022 14:01:32.0	yes
5B	(1) WD0308-565	COS/FUV COS/NUV	1	26-Aug-2022 14:01:34.0	yes
06	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	3	26-Aug-2022 14:01:36.0	yes
56	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	3	26-Aug-2022 14:01:39.0	yes
07	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	26-Aug-2022 14:01:41.0	yes
08	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	26-Aug-2022 14:01:44.0	yes
58	(1) WD0308-565	COS/FUV COS/NUV	1	26-Aug-2022 14:01:46.0	yes
09	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	26-Aug-2022 14:01:47.0	yes
10	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	26-Aug-2022 14:01:48.0	yes
12	(1) WD0308-565	COS/FUV COS/NUV	2	26-Aug-2022 14:01:50.0	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>
11	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	26-Aug-2022 14:01:52.0	yes

37 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 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,

G130M/1222,

G130M/1291,

G130M/1327/FUVA,

G160M/1533/FUVB

G160M/1577/FUVB,

G160M/1611/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/1611/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 G130M 1291 and 1327 observations will be done at LP5, G140L observations will be done at LP3, G130M/1222 and G160M observations will be done at LP4, and G130M/1055 and G130M/1096 will be done at LP2.

G160M/1611 was added in Cycle 29 in order to monitor this highly used but untracked cenwave, and to investigate the detector position vs wavelength dependence of the TDS.

G160M long exposures move to LP6 in October 2022 (visits 10, 11, 12).

TDS connection visits:

We have added TDS connection visits for G160M/1533, 1577, 1611 and 1623 at LP6 in visits 5A and 06, to enable the calibration of these cenwaves at a new lifetime position. The TDS connection exposures at LP6 in visits 5A and 06 should temporarily not be calibrated.

Connection visits for G130M/1291 in visit 07, G130M/1327 at LP5 in visit 5B, and for G140L/800 at LP3 in visit 08 are included as counterparts to the connection visits taken in Cycle 28, to enable the investigation of the LP dependence of the TDS.

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.

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- 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 FUVB is used)

G140L/1280 SNR of 12 per resel at 1090 Ang (lies on FUVB)

- For the blue modes and c1222, the wavelengths specified for SNR of 15 are:

990 Ang for c1096 (Only FUVB is used)

1120 Ang for c1055 (lies on FUVB)

1130 Ang for

c1222 (lies on FUVB)

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.

In Cycle 29 small extensions to the date ranges for visits 01, 03, 10 and 12 were made, as the scheduling windows were too small.

The exposure times and organization of visits follows the scheme used in Cycle 28, with the exception of the exposure times for cenwaves 1055, 1096, 1280, 1577/FUVB and 1623/FUVB which have been updated to reflect the most recent exposure times following updates to the TDSTAB and FLUXTAB. As in Cycle 28, 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 07) for which the specifications are SEGMENT=BOTH for these modes, because GD71 is not available during this period.

In Cycle 29, an additional NUV ACQ/IMAGE was added at the beginning of the second orbit of the 3 orbit WD0308-565 visits to protect against

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guide star reacquisition failures, which this particular target is prone to. For visit 5A due to the increased overheads for split wavecalcs at LP6, a second ACQ/IMAGE does not fit in the 3 orbits we have allocated to this visit.

In Cycle 29 visit 05 has been split into two visits 5A and 5B to avoid the difficulty in scheduling a 4 orbit visit. The same thing has been done for visit 10, which has been split into visit 10 and visit 12.

SCHED=100 for all visits, except visit 5A which has SCHED=90.

Proposal 16830 - WD0308-DEC (01) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

Fri Aug 26 18:01:53 GMT 2022

Visit	<p>Proposal 16830, WD0308-DEC (01), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 26-DEC-2021:00:00:00 AND 11-JAN-2022:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).</i></p>																
	<p>(WD0308-DEC (01)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.</p>																
Diagnosics																	
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>	#	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				
	#	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												
<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>																	

Proposal 16830 - WD0308-DEC (01) - Cycle 29 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.154 0024)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=20 8; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2			318 Secs (318 Secs) [==>]	[1]
	<i>Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update. ETC buffer time is 1377 sec Set buffer time = exptime - 110 sec</i>									
	3	G130M/122 2/LP4 (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/LP5 (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: ETC buffer time is 323 sec. Set buffer time = exptime - 110 sec</i>										
5	G140L/1280 /LP3 (COS.sp.154 0033)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=29 1; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			401 Secs (401 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 503 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	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs) [==>]	[2]	
<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>										

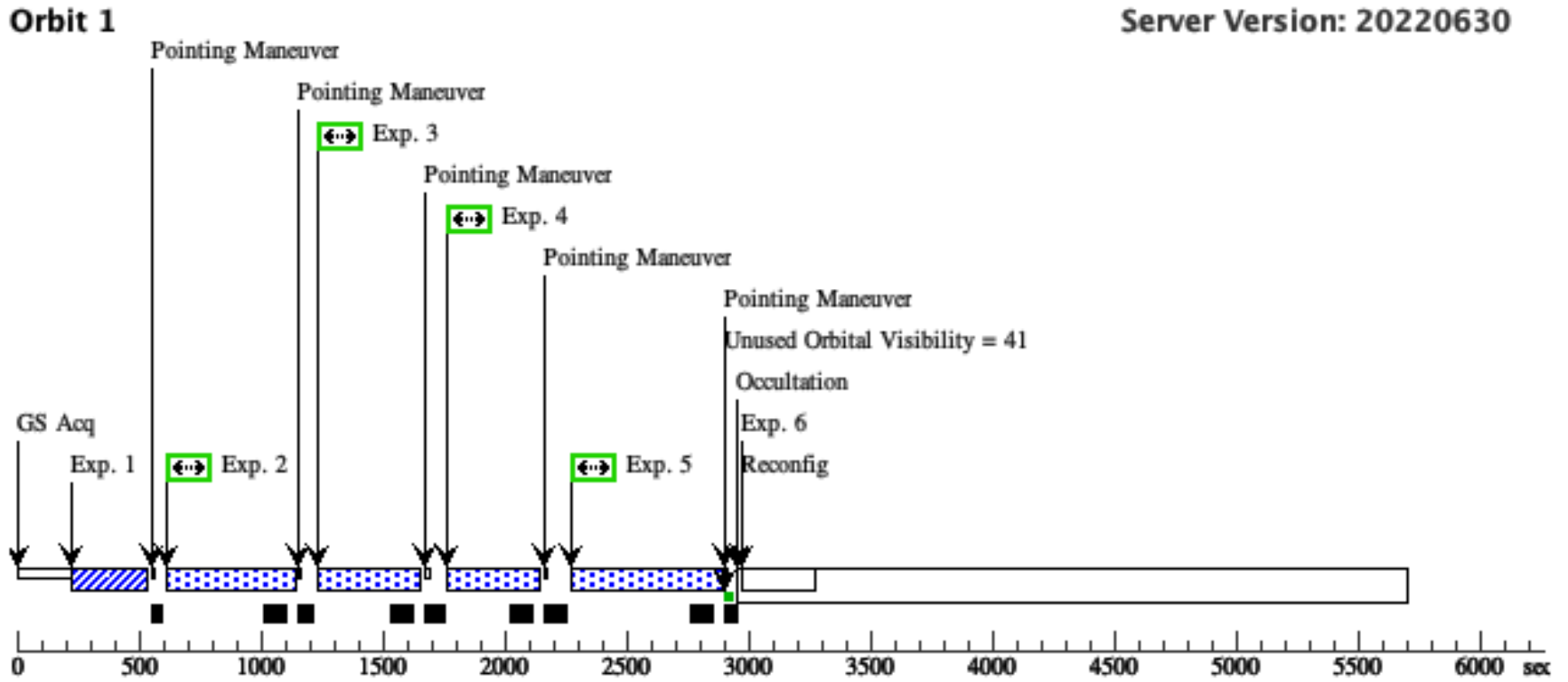
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8	G160M/153 3/B/LP4 (COS.sp.145 7649)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=11 3; LIFETIME-POS=L P4; SEGMENT=B	223 Secs (223 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 502 sec. Set buffer time = exptime - 110 sec.</p>							
9	G160M/157 7/B/LP4 (COS.sp.154 0036)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=18 1; LIFETIME-POS=L P4; SEGMENT=B	291 Secs (291 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec.</p>							
10	G160M/161 1/B/LP4 (COS.sp.154 0046)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=3; BUFFER-TIME=25 0; LIFETIME-POS=L P4; SEGMENT=B	360 Secs (360 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 755 sec. Set buffer time = exptime - 110 sec.</p>							
11	G160M/162 3/B/LP4 (COS.sp.154 0050)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=27 8; LIFETIME-POS=L P4; SEGMENT=B	388 Secs (388 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 814 sec. Set buffer time = exptime - 110 sec.</p>							
12	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>							
13	G140L/800/ FUVA/LP3 (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]
<p>Comments: ETC buffer time is 350 sec. Set buffer time = exptime - 110 sec.</p>							

Proposal 16830 - WD0308-DEC (01) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

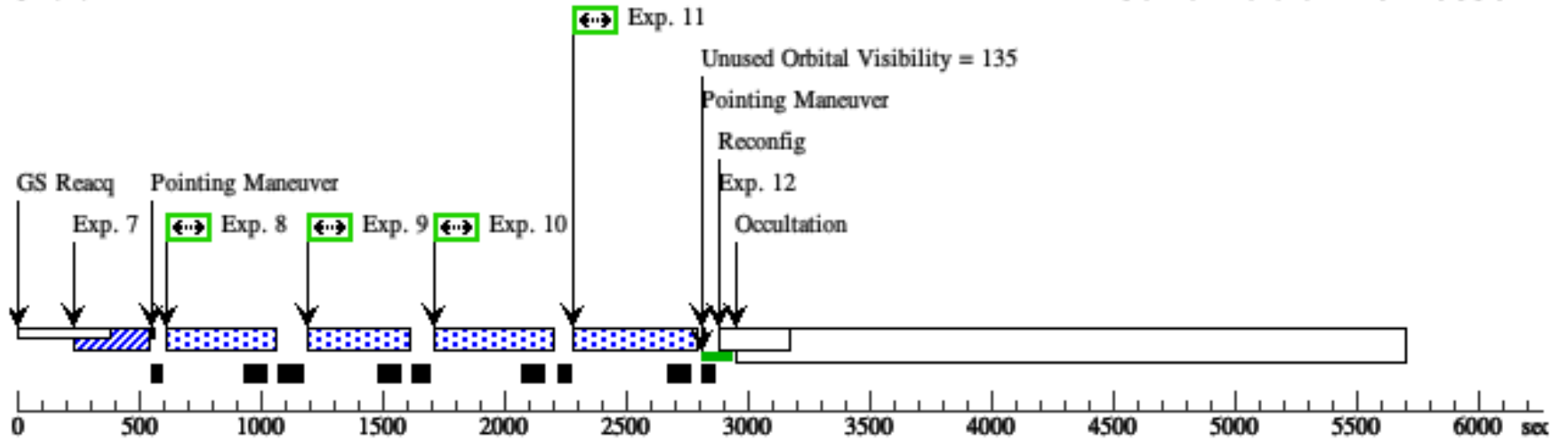
14	G140L/1105 (1) WD0308-565 /FUV A/LP3 (COS.sp.145 7846)	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	332 Secs (332 Secs)	[==>]	[3]
<p>Comments: ETC buffer time is 358 sec. Set buffer time = exptime - 110 sec</p>							
15	G130M/132 (1) WD0308-565 7/FUVA/LP 5 (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]
<p>Comments: ETC buffer time is 324 sec. set buffer time = exptime - 110 sec</p>							

Orbit Structure



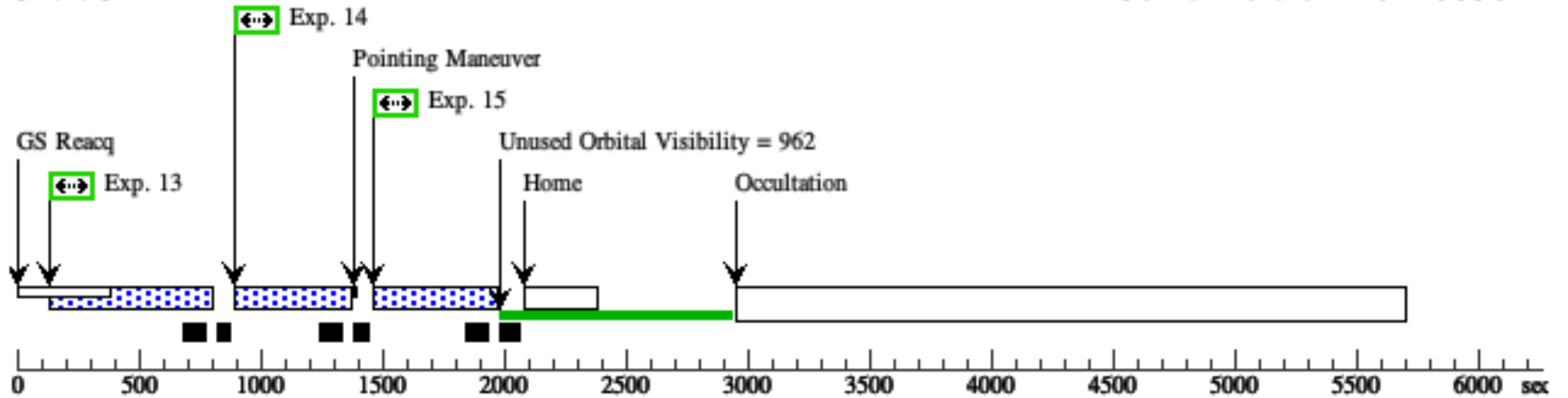
Orbit 2

Server Version: 20220630



Orbit 3

Server Version: 20220630



Proposal 16830 - GD71-DEC (02) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

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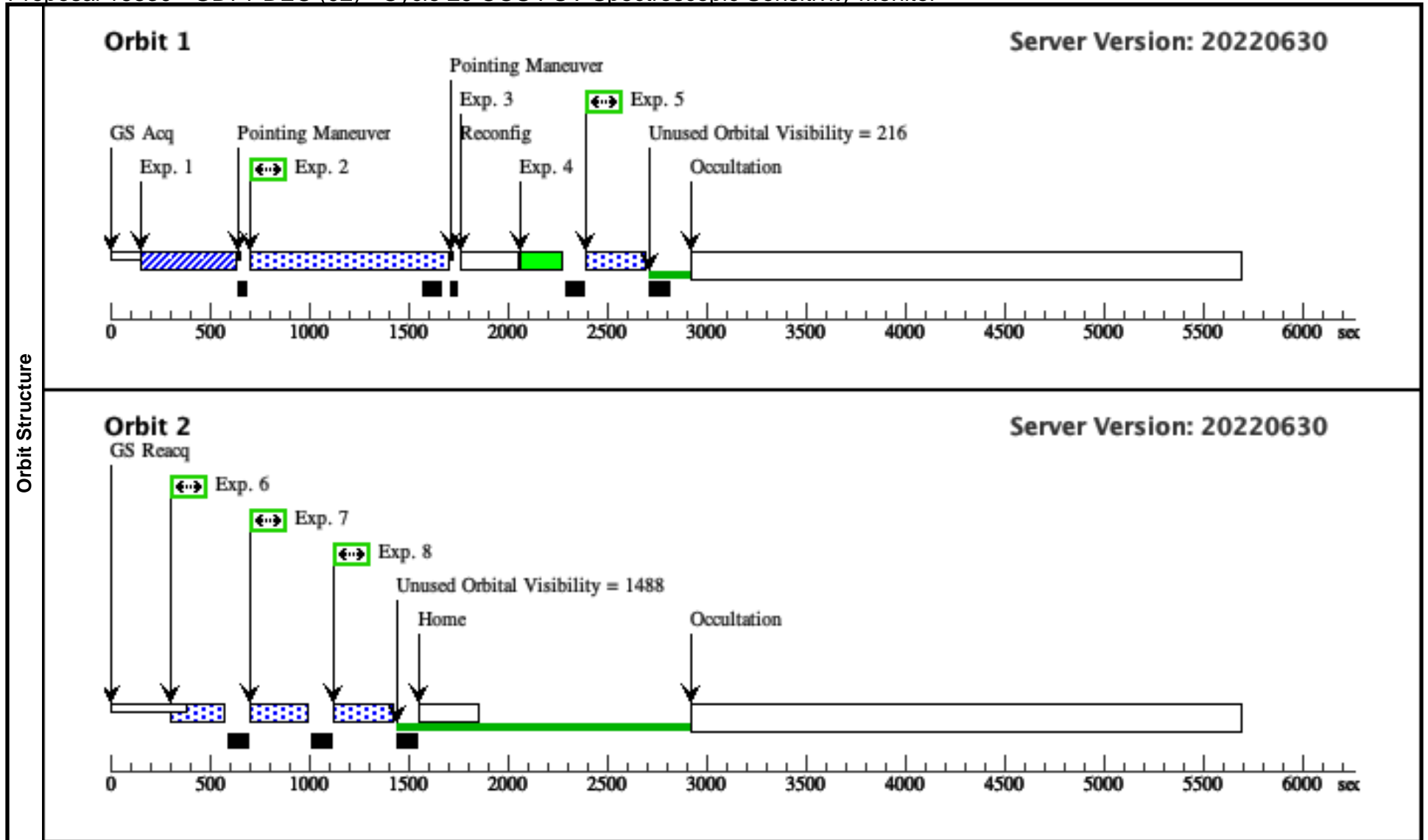
Visit	<p>Proposal 16830, GD71-DEC (02), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 26-DEC-2021:00:00:00 AND 08-JAN-2022:00:00:00</p> <p><i>Comments: exposure 4: GO wavecal to calculate the OSM shifts 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>					
	<p>(GD71-DEC (02)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.</p>					
Diagnosics						
Fixed Targets	#	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
<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>						

Proposal 16830 - GD71-DEC (02) - Cycle 29 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 (2) GD71 (COS.ta.839 574)	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs) [==>]	[1]	
	<p><i>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.</i></p>									
	2	G130M/109 (2) GD71 6/FUVB/LP 2 (COS.sp.154 0055)	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=68 3; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			793 Secs (793 Secs) [==>]	[1]	
	<p><i>Comments: Cycle 29 comment: exposure time updated following blue modes TDSTAB and FLUXTAB update. FUVB only (all ETC warnings come from FUVA). The FUVB count rate is 566 cts/sec, so the buffer time is 2.35E6/566 = 4152 sec. Set buffer-time = exptime - 110 sec</i></p>									
	3	DARK	S/C, DATA, NONE				QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[1]	
	<p><i>Comments: Work-around to efficiently schedule the SEG-B to SEG-A reconfiguration. Eliminates SPSS induced gaps.</i></p>									
4	G130M/109 WAVE 6/FUVA W AVECAL/L P2	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><i>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.</i></p>										
5	G160M/153 (2) GD71 3/FUVA/LP 4 (COS.sp.145 7660)	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><i>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</i></p>										
6	G160M/157 (2) GD71 7/FUVA/LP 4 (COS.sp.145 7661)	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><i>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</i></p>										

Proposal 16830 - GD71-DEC (02) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

7	G160M/161 (2) GD71 1/FUVA/LP 4 (COS.sp.154 0058)	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=15 9; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	159 Secs (159 Secs)	[==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 5172 cts/sec, so the buffer time is $2.35E6/5172 = 454$ sec. Set buffer-time = exptime</p>							
8	G160M/162 (2) GD71 3/FUVA/LP 4 (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 16830 - WD0308-FEB (03) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

Fri Aug 26 18:01:53 GMT 2022

Visit	<p>Proposal 16830, WD0308-FEB (03), failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 18-FEB-2022:00:00:00 AND 01-MAR-2022:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).</i></p>																
Diagnostics	<p>(WD0308-FEB (03)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.</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	Reference Frame: ICRS				
#	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 16830 - WD0308-FEB (03) - Cycle 29 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.154 0024)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=20 8; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2			318 Secs (318 Secs) [==>]	[1]
	<i>Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update. ETC buffer time is 1377 sec Set buffer time = exptime - 110 sec</i>									
	3	G130M/122 2/LP4 (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/LP5 (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: ETC buffer time is 323 sec. Set buffer time = exptime - 110 sec</i>										
5	G140L/1280 /LP3 (COS.sp.154 0033)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=29 1; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			401 Secs (401 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 503 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	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs) [==>]	[2]	
<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>										

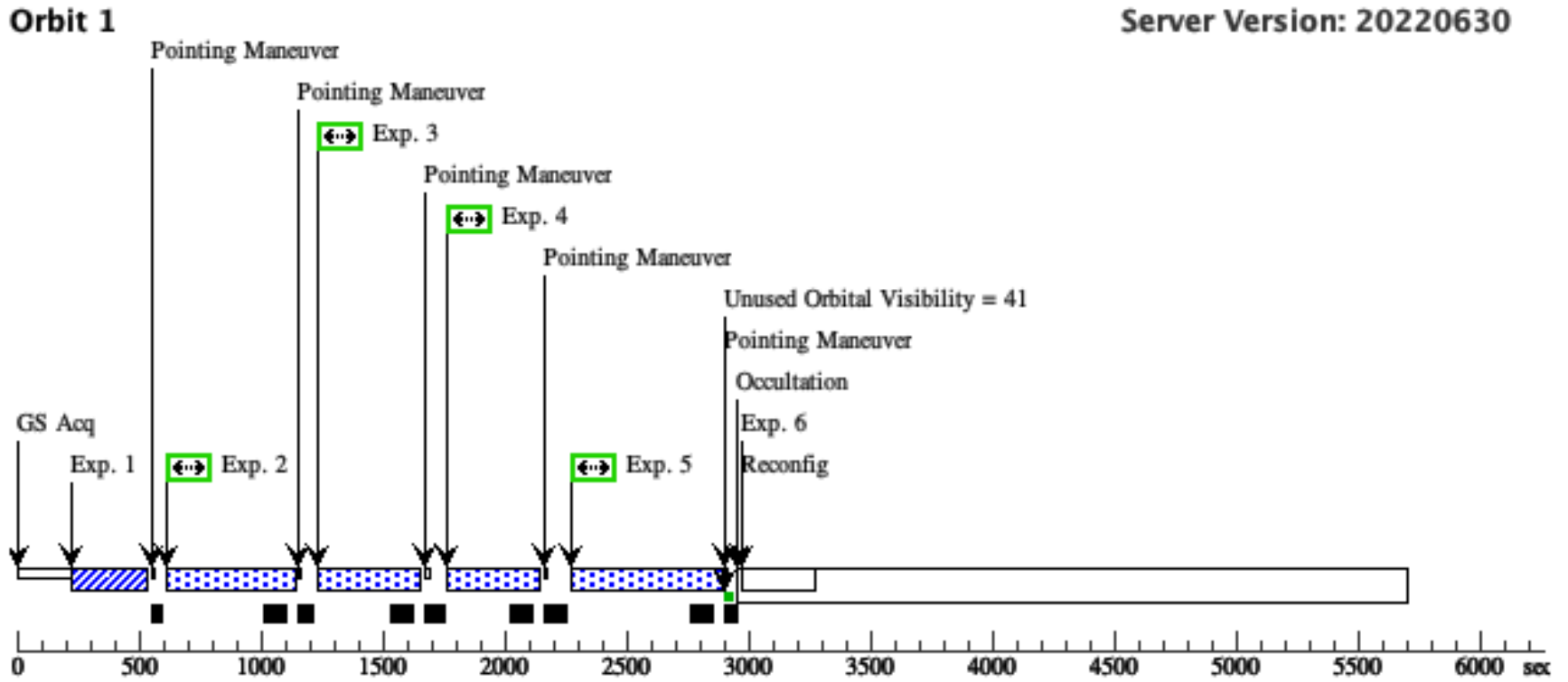
Proposal 16830 - WD0308-FEB (03) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

8	G160M/153 3/B/LP4 (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]
<p>Comments: ETC buffer time is 502 sec. Set buffer time = exptime - 110 sec.</p>							
9	G160M/157 7/B/LP4 (COS.sp.154 0036)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=18 1; LIFETIME-POS=L P4; SEGMENT=B	291 Secs (291 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec.</p>							
10	G160M/161 1/B/LP4 (COS.sp.154 0046)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=3; BUFFER-TIME=25 0; LIFETIME-POS=L P4; SEGMENT=B	360 Secs (360 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 755 sec. Set buffer time = exptime - 110 sec.</p>							
11	G160M/162 3/B/LP4 (COS.sp.154 0050)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=27 8; LIFETIME-POS=L P4; SEGMENT=B	388 Secs (388 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 814 sec. Set buffer time = exptime - 110 sec.</p>							
12	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>							
13	G140L/800/ FUVA/LP3 (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]
<p>Comments: ETC buffer time is 350 sec. Set buffer time = exptime - 110 sec.</p>							

Proposal 16830 - WD0308-FEB (03) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

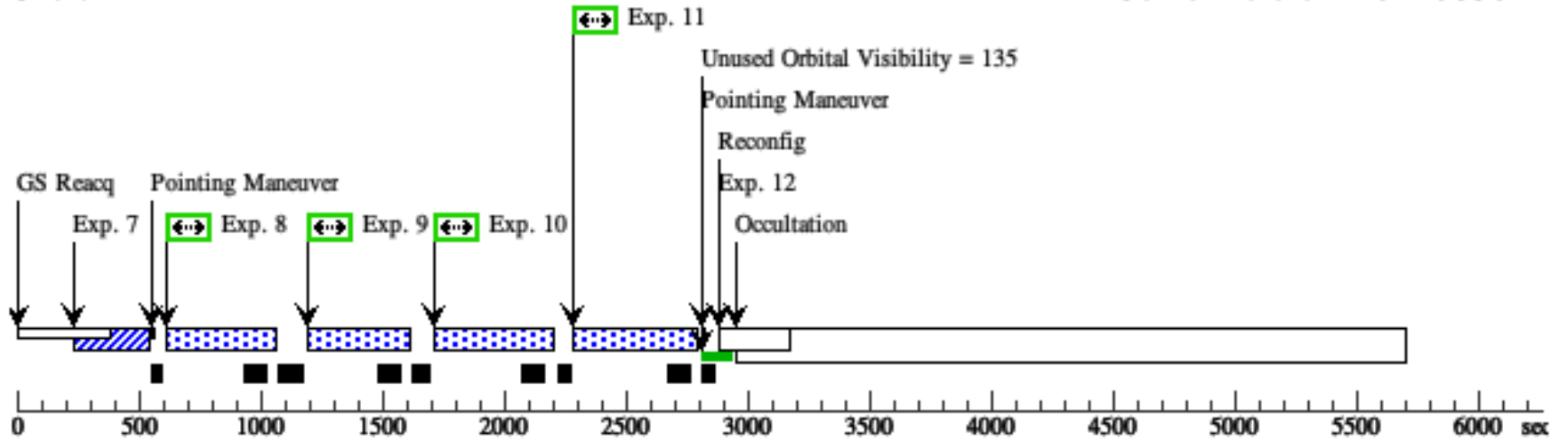
14	G140L/1105 (1) WD0308-565 /FUV A/LP3 (COS.sp.145 7846)	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	332 Secs (332 Secs)	[==>]	[3]
<p>Comments: ETC buffer time is 358 sec. Set buffer time = exptime - 110 sec</p>							
15	G130M/132 (1) WD0308-565 7/FUVA/LP 5 (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]
<p>Comments: ETC buffer time is 324 sec. set buffer time = exptime - 110 sec</p>							

Orbit Structure



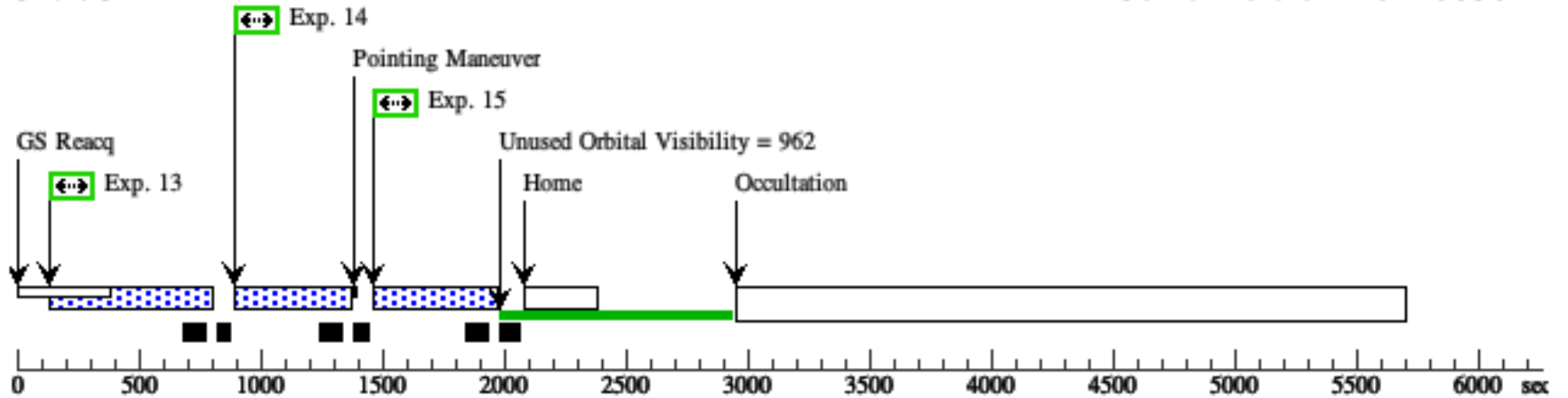
Orbit 2

Server Version: 20220630



Orbit 3

Server Version: 20220630



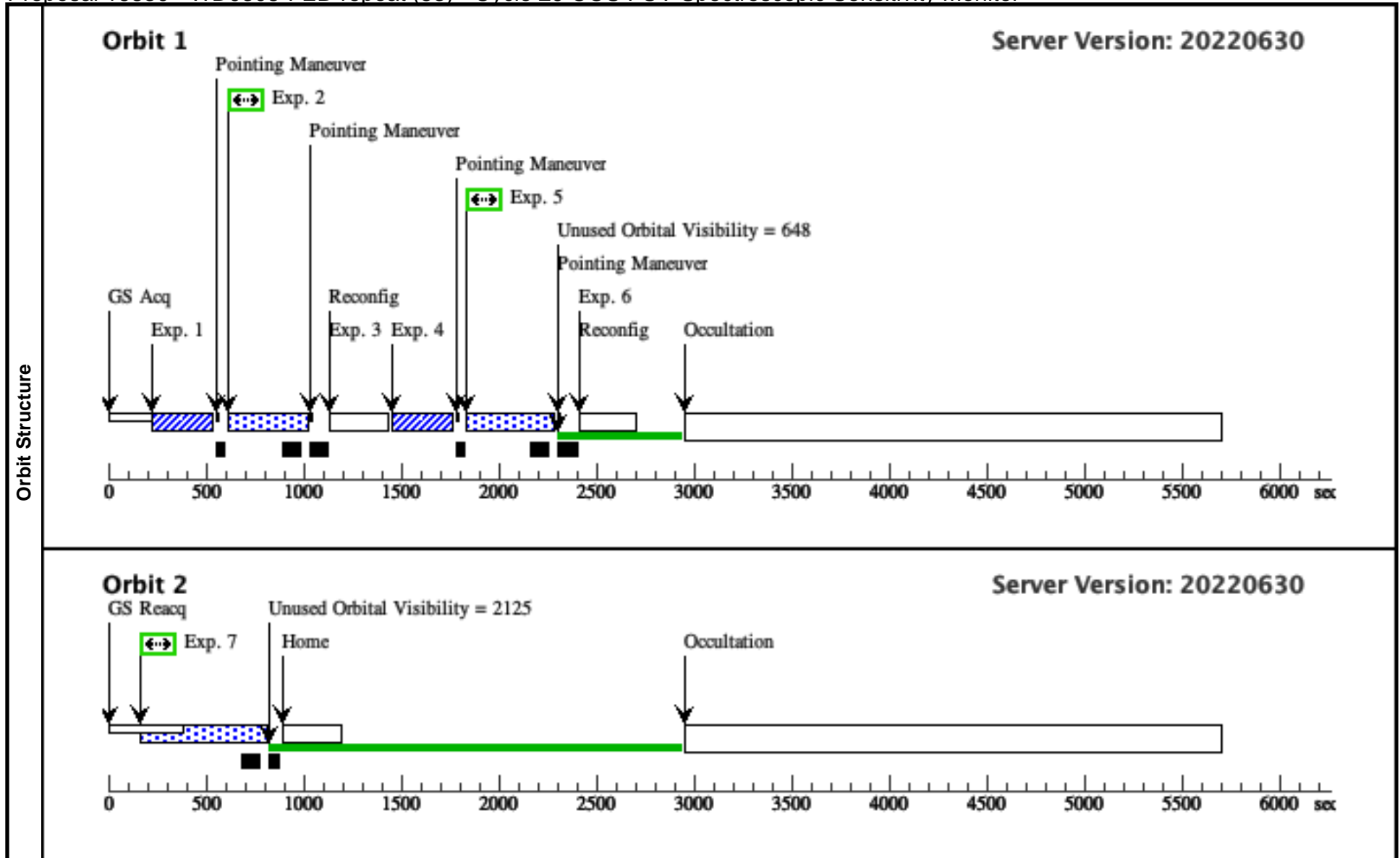
Proposal 16830 - WD0308-FEB-repeat (53) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

Fri Aug 26 18:01:53 GMT 2022

Visit	<p>Proposal 16830, WD0308-FEB-repeat (53), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 14-MAR-2022 AND 28-MAR-2022</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).</i></p>																
Diagnostics	<p>(WD0308-FEB-repeat (53)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.</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	Reference Frame: ICRS				
#	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 16830 - WD0308-FEB-repeat (53) - Cycle 29 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/129 1/LP5 (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: ETC buffer time is 323 sec. Set buffer time = exptime - 110 sec</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 reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i>									
	4	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>									
	5	G160M/153 3/B/LP4 (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) [==>]	[1]	
	<i>Comments: ETC buffer time is 502 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	G140L/800/ FUVA/LP3 (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]		
<i>Comments: ETC buffer time is 350 sec. Set buffer time = exptime - 110 sec</i>										



Proposal 16830 - GD71-FEB (04) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

Fri Aug 26 18:01:53 GMT 2022

Visit	<p>Proposal 16830, GD71-FEB (04), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 18-FEB-2022:00:00:00 AND 27-FEB-2022:00:00:00</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>																	
	<p>Diagnosics</p> <p>(GD71-FEB (04)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.</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	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
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Proposal 16830 - GD71-FEB (04) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

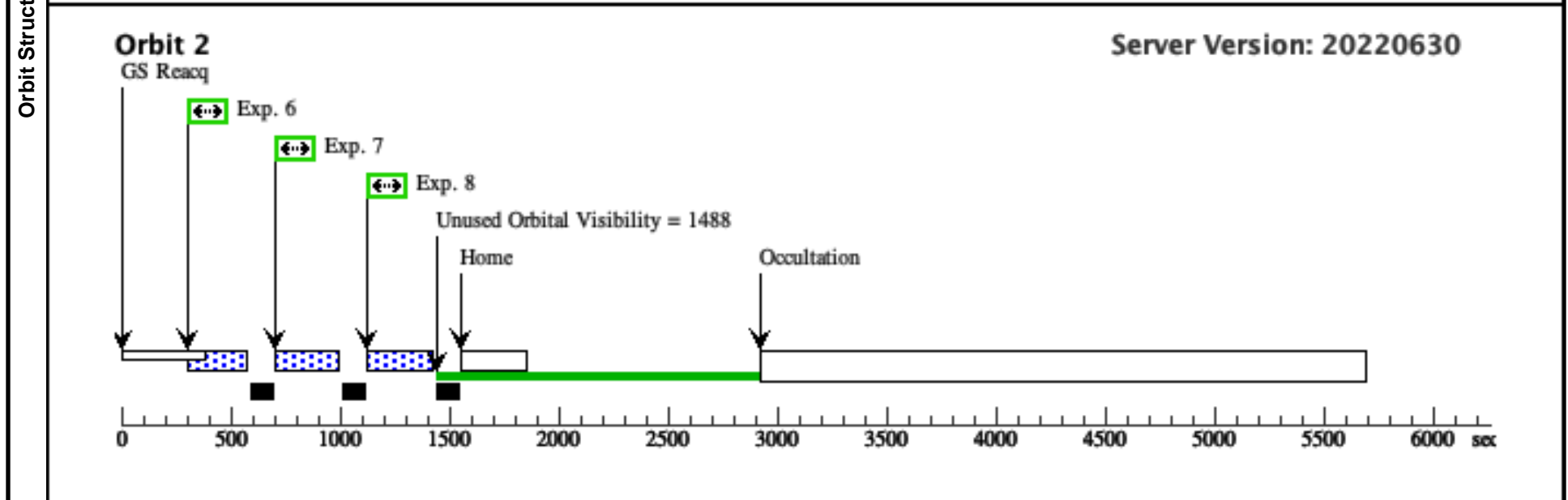
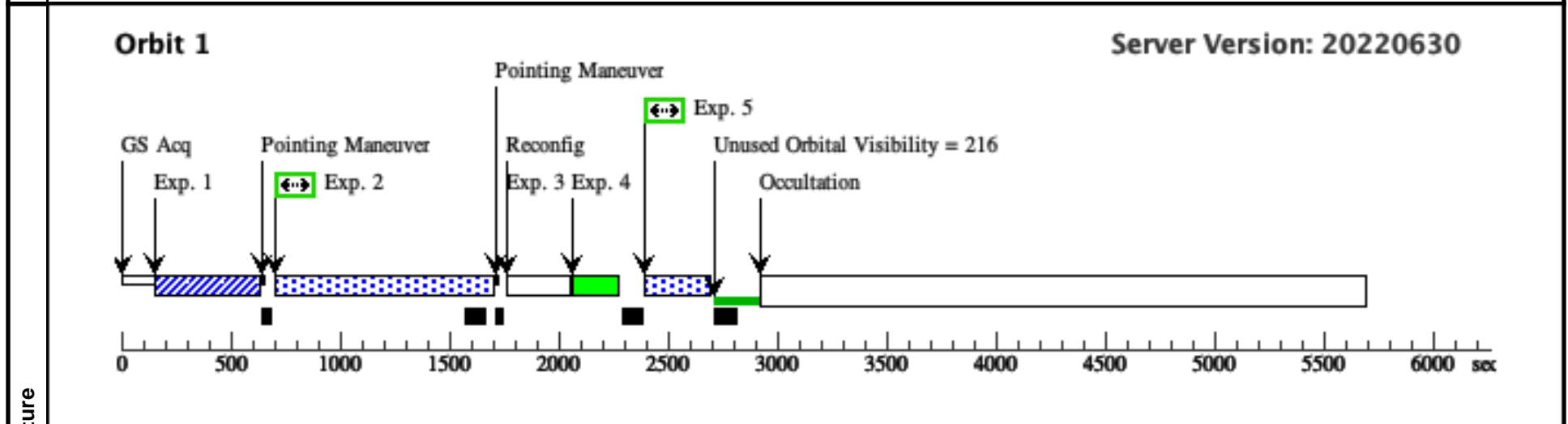
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (2) GD71 (COS.ta.839 574)	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs) [==>]	[1]	
	<i>Comments: See Visit 02 comments.</i>									
	2	G130M/109 (2) GD71 6/FUVB/LP 2 (COS.sp.154 0055)	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=68 3; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			793 Secs (793 Secs) [==>]	[1]	
	<i>Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update.</i>									
	<i>FUVB only (all ETC warnings come from FUVA). The FUVB count rate is 594 cts/sec, so the buffer time is 2.35E6/594 = 3956 sec. Set buffer-time = exptime - 110 sec</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 WAVE 6/FUVA W AVECAL/L P2		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 (2) GD71 3/FUVA/LP 4 (COS.sp.145 7660)		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 (2) GD71 7/FUVA/LP 4 (COS.sp.145 7661)		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/161 (2) GD71 1/FUVA/LP 4 (COS.sp.154 0058)		COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=15 9; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			159 Secs (159 Secs) [==>]	[2]	
<i>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 5172 cts/sec, so the buffer time is 2.35E6/5172 = 454 sec. Set buffer-time = exptime</i>										

Proposal 16830 - GD71-FEB (04) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

8	G160M/162 (2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=17	177 Secs (177 Secs)
	3/FUVA/LP 4 (COS.sp.145 7663)		1623 A	7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	[==>]

[2]

Comments: See Visit 02 comments.



Proposal 16830 - WD0308-APR inc G160M LP4-LP6 connection (5A) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

Visit	<p>Proposal 16830, WD0308-APR inc G160M LP4-LP6 connection (5A), completed Fri Aug 26 18:01:53 GMT 2022</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 90%; BETWEEN 10-APR-2022:00:00:00 AND 23-APR-2022:00:00:00</p> <p><i>Comments: In Cycle 29 visit 05 has been split into two visits 5A and 5B to avoid the difficulty in scheduling a 4 orbit visit (accounting for increased overheads at LP6). Using "SEGMENT=BOTH" instead of "SEGMENT=B" for both LP4 and LP6 observations for the G160M settings to have a back-up set of data for both LP4 and LP6 observations for the G160M settings (FUVA is also observed for G160M using GD71 in visit 6). Dark exposure 6 to reconfigure from SEGMENT=BOTH removed as it is not needed since we are not changing segments anymore. For visit 5A due to the increased overheads for split wavecalcs at LP6, a second ACO/IMAGE does not fit in the 3 orbits we have allocated to this visit.</i></p>																
	<p>Diagnosics (WD0308-APR inc G160M LP4-LP6 connection (5A)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.</p>																
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Proposal 16830 - WD0308-APR inc G160M LP4-LP6 connection (5A) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

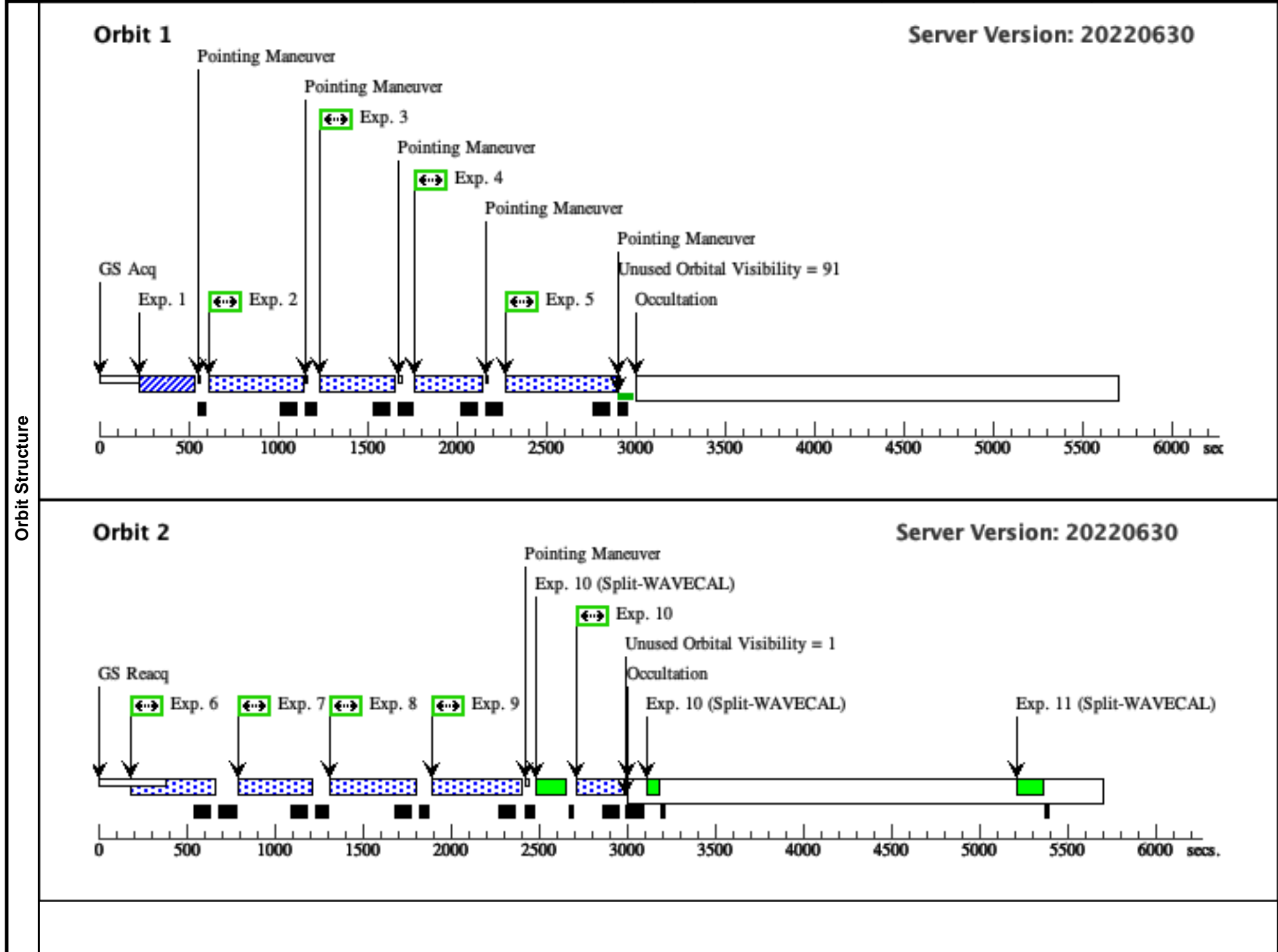
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following 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.154 0024)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=20 8; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2			318 Secs (318 Secs) [==>]	[1]
	<i>Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update. ETC buffer time is 1377 sec Set buffer time = exptime - 110 sec</i>									
	3	G130M/122 2/LP4 (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/LP5 (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: ETC buffer time is 323 sec. Set buffer time = exptime - 110 sec</i>										
5	G140L/1280 /LP3 (COS.sp.154 0033)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=29 1; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			401 Secs (401 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 503 sec. Set buffer time = exptime - 110 sec</i>										
6	G160M/153 3/BOTH/LP 4 (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: ETC buffer time is 502 sec. Set buffer time = exptime - 110 sec.</i>										

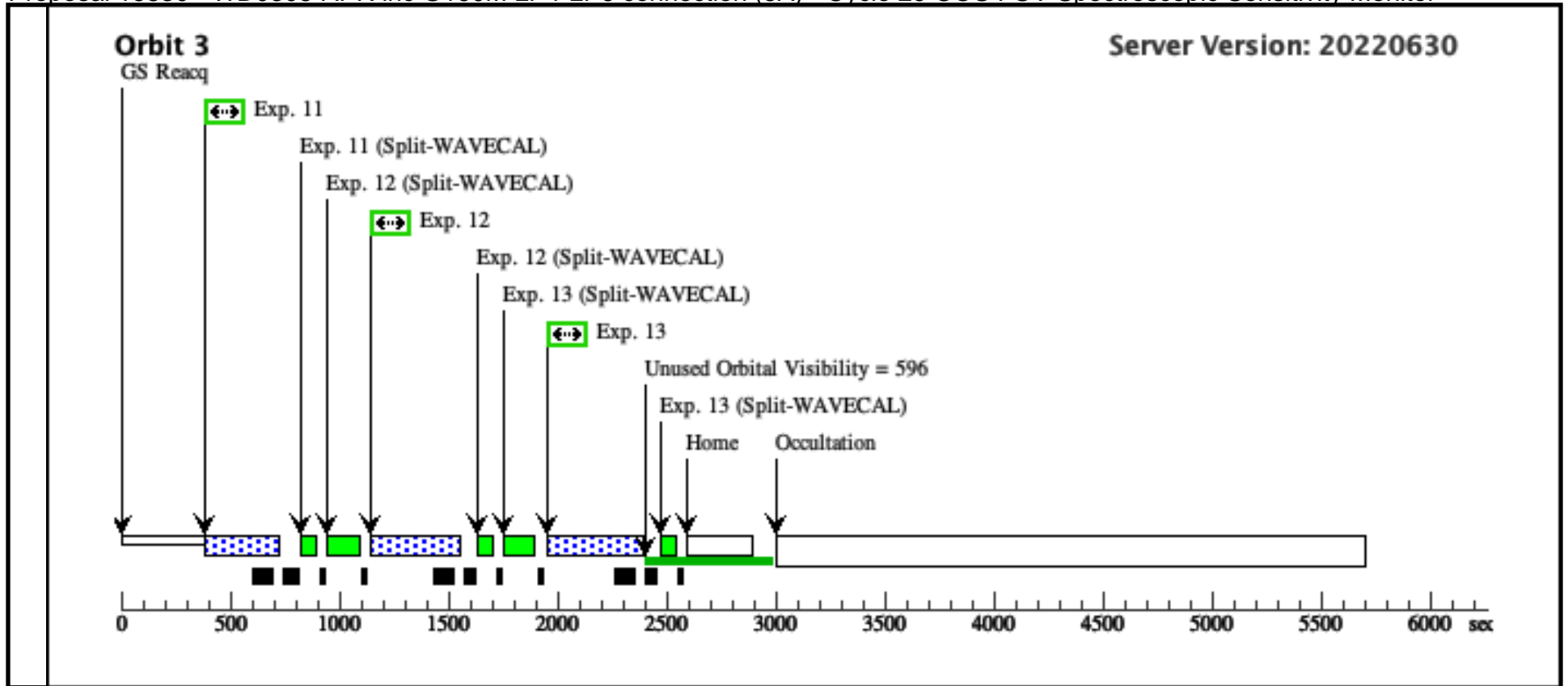
Proposal 16830 - WD0308-APR inc G160M LP4-LP6 connection (5A) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

7	G160M/157 7/BOTH/LP 4 (COS.sp.154 0036)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=18 1; LIFETIME-POS=L P4; SEGMENT=BOTH	291 Secs (291 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec</p>							
8	G160M/161 1/BOTH/LP 4 (COS.sp.154 0046)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=3; BUFFER-TIME=25 0; LIFETIME-POS=L P4; SEGMENT=BOTH	360 Secs (360 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 755 sec. Set buffer time = exptime - 110 sec</p>							
9	G160M/162 3/BOTH/LP 4 (COS.sp.154 0050)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=27 8; LIFETIME-POS=L P4; SEGMENT=BOTH	388 Secs (388 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 814 sec. Set buffer time = exptime - 110 sec</p>							
10	G160M/153 3/BOTH/LP 6 connection (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 P6; SEGMENT=BOTH	223 Secs (223 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 502 sec. Set buffer time = exptime - 110 sec</p>							
11	G160M/157 7/BOTH/LP 6 connection (COS.sp.154 0036)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=18 1; LIFETIME-POS=L P6; SEGMENT=BOTH	291 Secs (291 Secs) [==>]	[3]
<p>Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec</p>							
12	G160M/161 1/BOTH/LP 6 connection (COS.sp.154 0046)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=3; BUFFER-TIME=25 0; LIFETIME-POS=L P6; SEGMENT=BOTH	360 Secs (360 Secs) [==>]	[3]
<p>Comments: ETC buffer time is 755 sec. Set buffer time = exptime - 110 sec</p>							

Proposal 16830 - WD0308-APR inc G160M LP4-LP6 connection (5A) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

13	G160M/162 (1) WD0308-565 3/BOTH/LP 6 connection (COS.sp.154 0050)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=27 8; LIFETIME-POS=L P6; SEGMENT=BOTH	388 Secs (388 Secs) [==>]	[3]
<p>Comments: ETC buffer time is 814 sec. Set buffer time = exptime - 110 sec</p>						



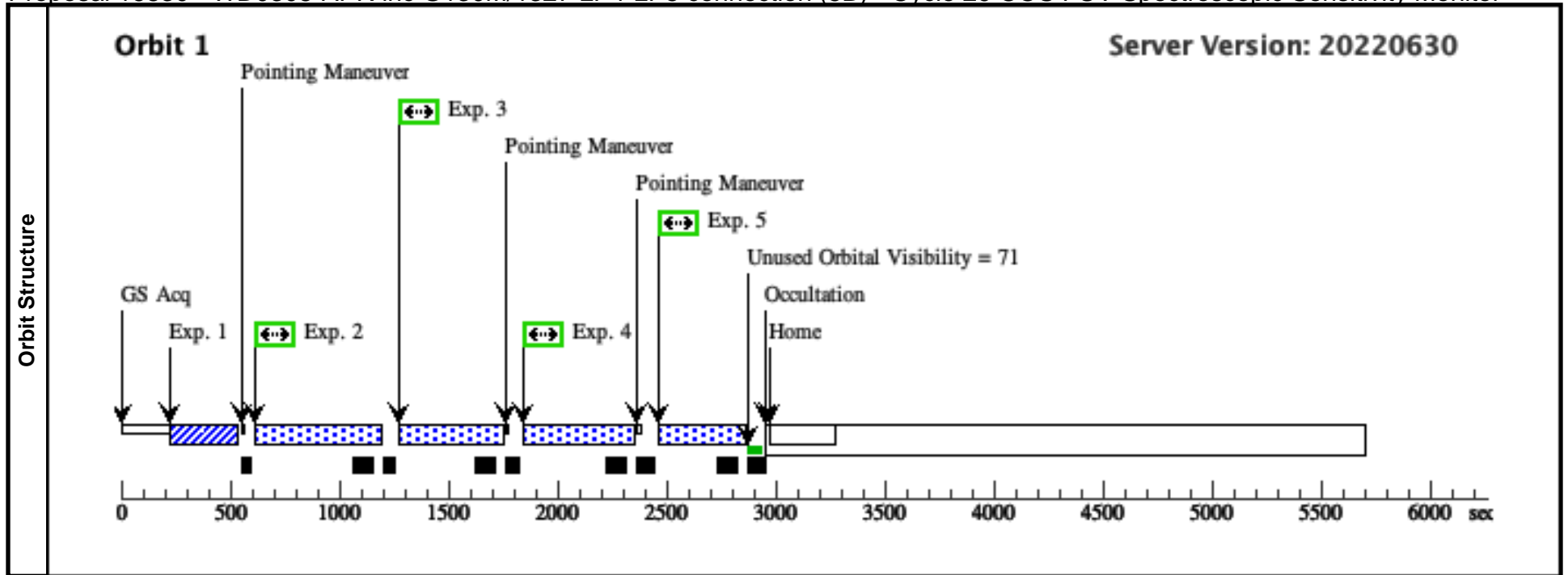


Proposal 16830 - WD0308-APR inc G130M/1327 LP4-LP5 connection (5B) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

Visit	<p>Proposal 16830, WD0308-APR inc G130M/1327 LP4-LP5 connection (5B), completed Fri Aug 26 18:01:53 GMT 2022</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 10-APR-2022:00:00:00 AND 23-APR-2022:00:00:00</p> <p><i>Comments: In Cycle 29 visit 05 has been split into two visits 5A and 5B to avoid the difficulty in scheduling a 4 orbit visit (accounting for increased overheads at LP6).</i></p>																
	<p>Diagnosics (WD0308-APR inc G130M/1327 LP4-LP5 connection (5B)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.</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	Reference Frame: ICRS
	#	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 16830 - WD0308-APR inc G130M/1327 LP4-LP5 connection (5B) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	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	G140L/800/ FUVA/LP3 (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) [==>]	[1]
	<i>Comments: ETC buffer time is 350 sec. Set buffer time = exptime - 110 sec</i>										
	3	G140L/1105/ FUVA/LP3 (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) [==>]	[1]
	<i>Comments: ETC buffer time is 358 sec. Set buffer time = exptime - 110 sec</i>										
	4	G130M/132 7/FUVA/LP 4 connection (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) [==>]	[1]
	<i>Comments: ETC buffer time is 324 sec. set buffer time = exptime - 110 sec</i>										
	5	G130M/132 7/FUVA/LP 5 (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) [==>]	[1]
<i>Comments: ETC buffer time is 324 sec. set buffer time = exptime - 110 sec</i>											



Proposal 16830 - GD71-APR inc G160M LP4-LP6 connection (06) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

Visit	<p>Proposal 16830, GD71-APR inc G160M LP4-LP6 connection (06), failed Fri Aug 26 18:01:53 GMT 2022</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 14-MAR-2022:00:00:00 AND 14-APR-2022:00:00:00</p> <p><i>Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation</i> <i>George Chapman added Exposure 3</i> <i>All G160M observations are with SEGMENT = A (i.e. segment B is turned off).</i></p>																	
	Diagnostics	<p>(GD71-APR inc G160M LP4-LP6 connection (06)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.</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> <i>Category=STAR</i> <i>Description=[DA]</i> <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 16830 - GD71-APR inc G160M LP4-LP6 connection (06) - Cycle 29 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.154 0055)	(2) GD71	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=68 3; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			793 Secs (793 Secs) [==>]	[1]
<i>Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update.</i>									
<i>FUVB only (all ETC warnings come from FUVA). The FUVB count rate is 594 cts/sec, so the buffer time is 2.35E6/594 = 3956 sec. Set buffer-time = exptime - 110 sec</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/LP 6 (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 P6			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/LP 6 (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 P6			135 Secs (135 Secs) [==>]	[2]
<i>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</i>									
7	G160M/161 1/FUVA/LP 6 (COS.sp.154 0058)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=15 9; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6			159 Secs (159 Secs) [==>]	[2]
<i>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 5172 cts/sec, so the buffer time is 2.35E6/5172 = 454 sec. Set buffer-time = exptime</i>									

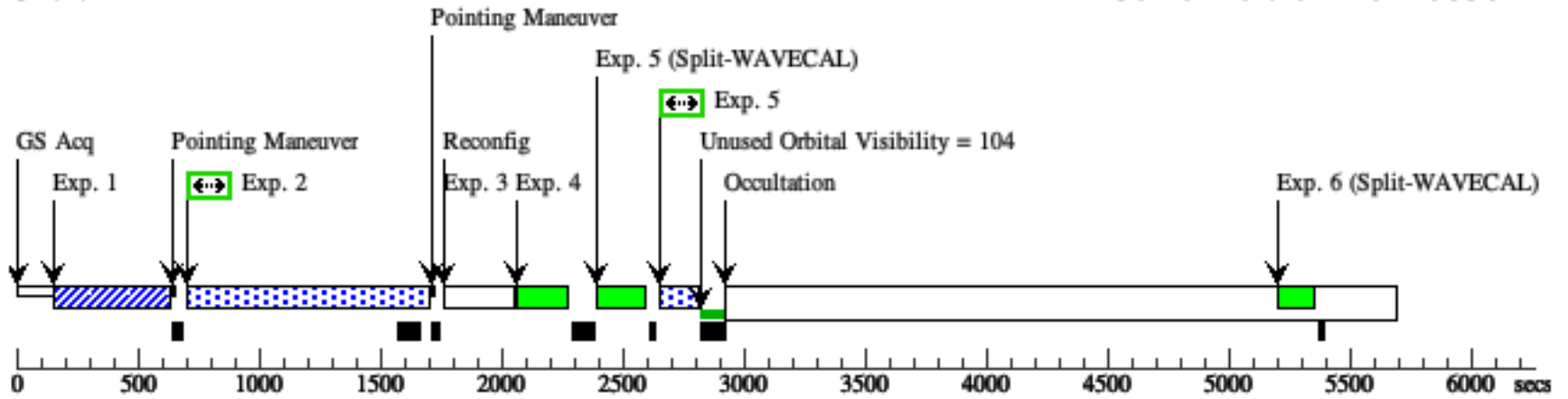
Exposures

Proposal 16830 - GD71-APR inc G160M LP4-LP6 connection (06) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

8	G160M/162 3/FUVA/LP 6 (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 P6	177 Secs (177 Secs) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</p>							
9	G160M/153 3/FUVA/LP 4 (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) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</p>							
10	G160M/157 7/FUVA/LP 4 (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). See Visit 02 comments.</p>							
11	G160M/161 1/FUVA/LP 4 (COS.sp.154 0058)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=15 9; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	159 Secs (159 Secs) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 5172 cts/sec, so the buffer time is $2.35E6/5172 = 454$ sec. Set buffer-time = exptime</p>							
12	G160M/162 3/FUVA/LP 4 (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) [==>]	[3]
<p>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</p>							

Orbit 1

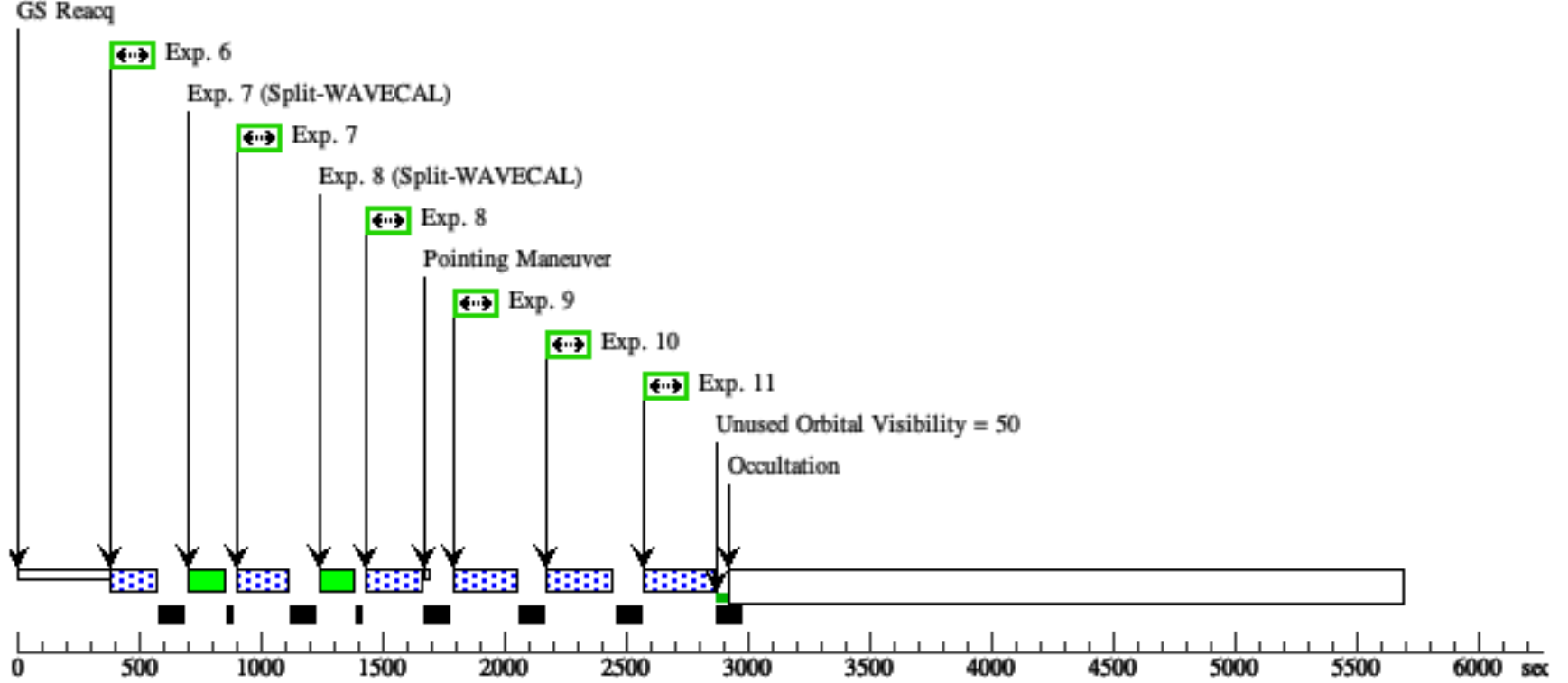
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Orbit Structure

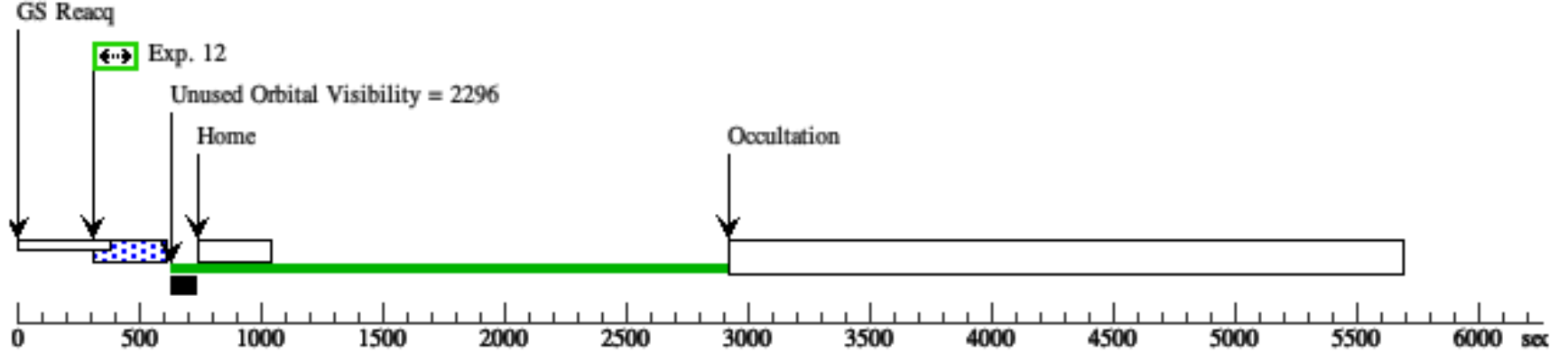
Orbit 2

Server Version: 20220630



Orbit 3

Server Version: 20220630



Proposal 16830 - GD71-APR inc G160M LP4-LP6 connection (56) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

Visit	<p>Proposal 16830, GD71-APR inc G160M LP4-LP6 connection (56), completed Fri Aug 26 18:01:54 GMT 2022</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 14-MAR-2022:00:00:00 AND 24-APR-2022:00:00:00</p> <p><i>Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation</i> <i>George Chapman added Exposure 3</i> <i>All G160M observations are with SEGMENT = A (i.e. segment B is turned off).</i></p>																	
	Diagnostics	<p>(GD71-APR inc G160M LP4-LP6 connection (56)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.</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> <i>Category=STAR</i> <i>Description=[DA]</i> <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	Reference Frame: ICRS
	#	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 16830 - GD71-APR inc G160M LP4-LP6 connection (56) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

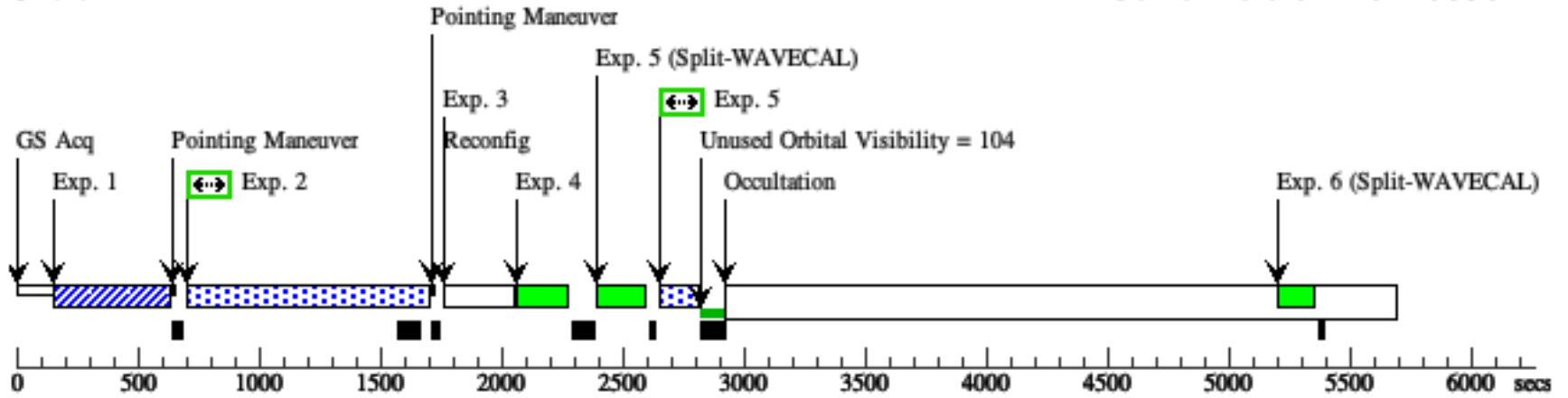
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (2) GD71 (COS.ta.839 574)	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs) [==>]	[1]	
	<i>Comments: See Visit 02 comments.</i>									
	2	G130M/109 (2) GD71 6/FUVB/LP 2 (COS.sp.154 0055)	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=68 3; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			793 Secs (793 Secs) [==>]	[1]	
	<i>Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update.</i>									
	<i>FUVB only (all ETC warnings come from FUVB). The FUVB count rate is 594 cts/sec, so the buffer time is 2.35E6/594 = 3956 sec. Set buffer-time = exptime - 110 sec</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 WAVE 6/FUVA W AVECAL/L P2	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 (2) GD71 3/FUVA/LP 6 (COS.sp.145 7660)	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 6; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6			106 Secs (106 Secs) [==>]	[1]		
<i>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</i>										
6	G160M/157 (2) GD71 7/FUVA/LP 6 (COS.sp.145 7661)	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=13 5; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6			135 Secs (135 Secs) [==>]	[2]		
<i>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</i>										
7	G160M/161 (2) GD71 1/FUVA/LP 6 (COS.sp.154 0058)	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=15 9; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6			159 Secs (159 Secs) [==>]	[2]		
<i>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 5172 cts/sec, so the buffer time is 2.35E6/5172 = 454 sec. Set buffer-time = exptime</i>										

Proposal 16830 - GD71-APR inc G160M LP4-LP6 connection (56) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

8	G160M/162 3/FUVA/LP 6 (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 P6	177 Secs (177 Secs) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</p>							
9	G160M/153 3/FUVA/LP 4 (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) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</p>							
10	G160M/157 7/FUVA/LP 4 (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). See Visit 02 comments.</p>							
11	G160M/161 1/FUVA/LP 4 (COS.sp.154 0058)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=15 9; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	159 Secs (159 Secs) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 5172 cts/sec, so the buffer time is $2.35E6/5172 = 454$ sec. Set buffer-time = exptime</p>							
12	G160M/162 3/FUVA/LP 4 (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) [==>]	[3]
<p>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</p>							

Orbit 1

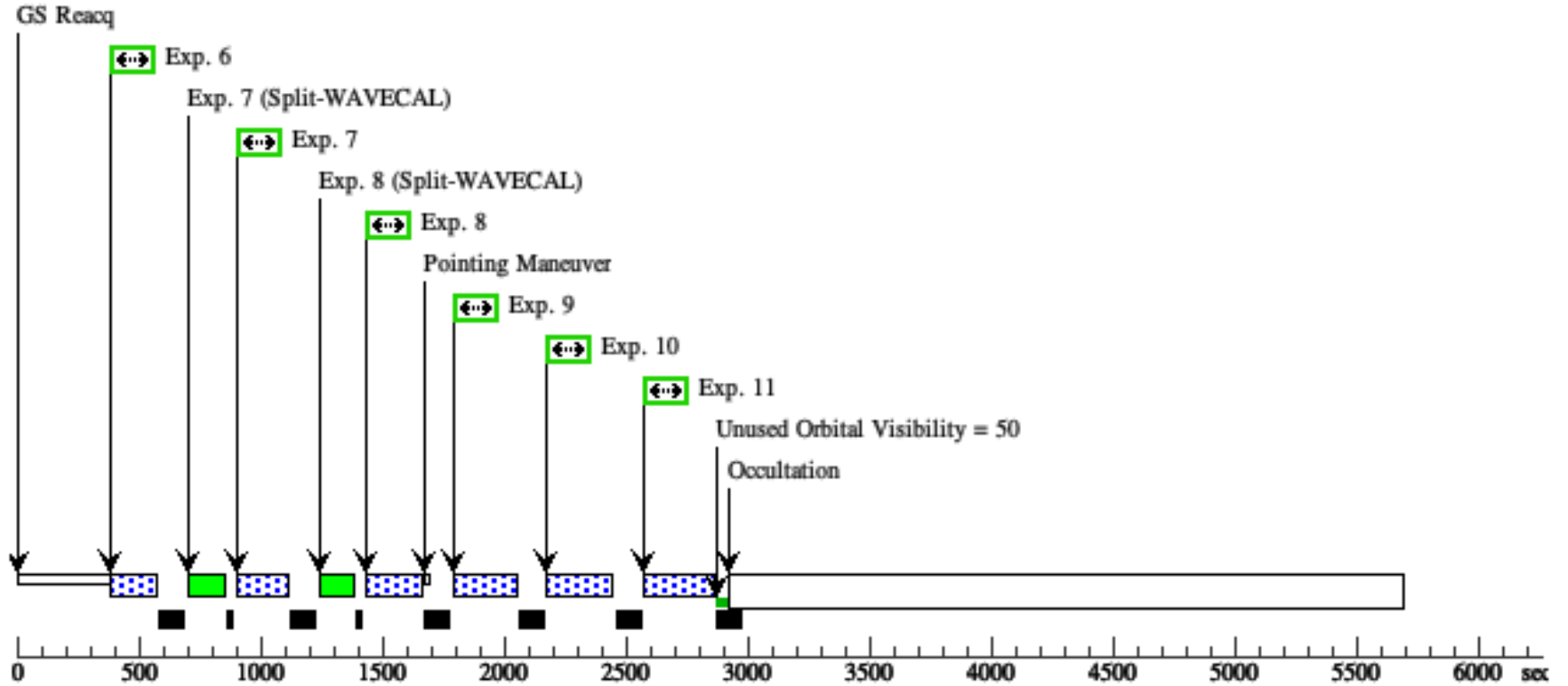
Server Version: 20220630



Orbit Structure

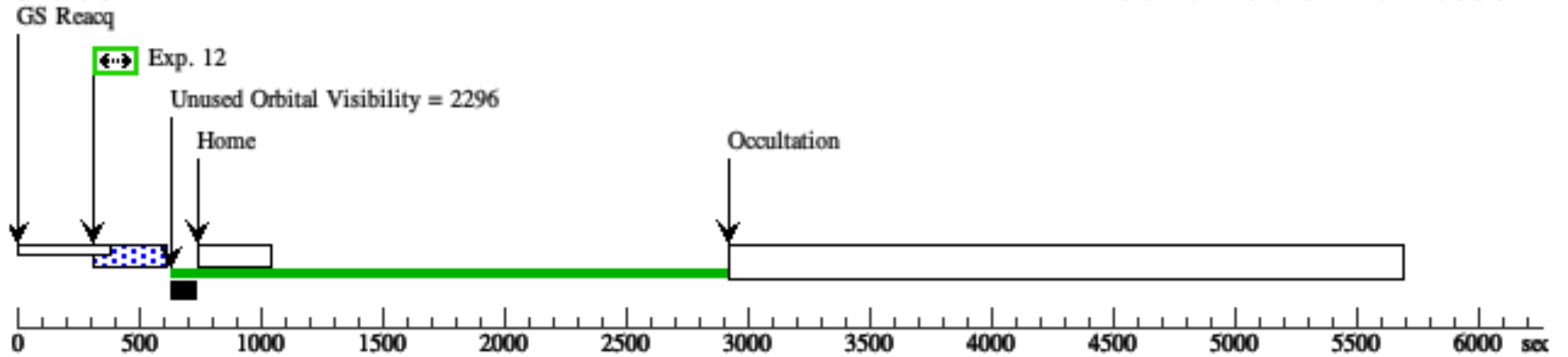
Server Version: 20220630

Orbit 2



Server Version: 20220630

Orbit 3



Proposal 16830 - WD0308-JUN inc G130M/1291 LP4-LP5 connection (07) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

Visit	<p>Proposal 16830, WD0308-JUN inc G130M/1291 LP4-LP5 connection (07), completed Fri Aug 26 18:01:54 GMT 2022</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 05-JUN-2022:00:00:00 AND 18-JUN-2022:00:00:00</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>																	
	<p>Diagnosics</p> <p>(WD0308-JUN inc G130M/1291 LP4-LP5 connection (07)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.</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	Reference Frame: ICRS
	#	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 16830 - WD0308-JUN inc G130M/1291 LP4-LP5 connection (07) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

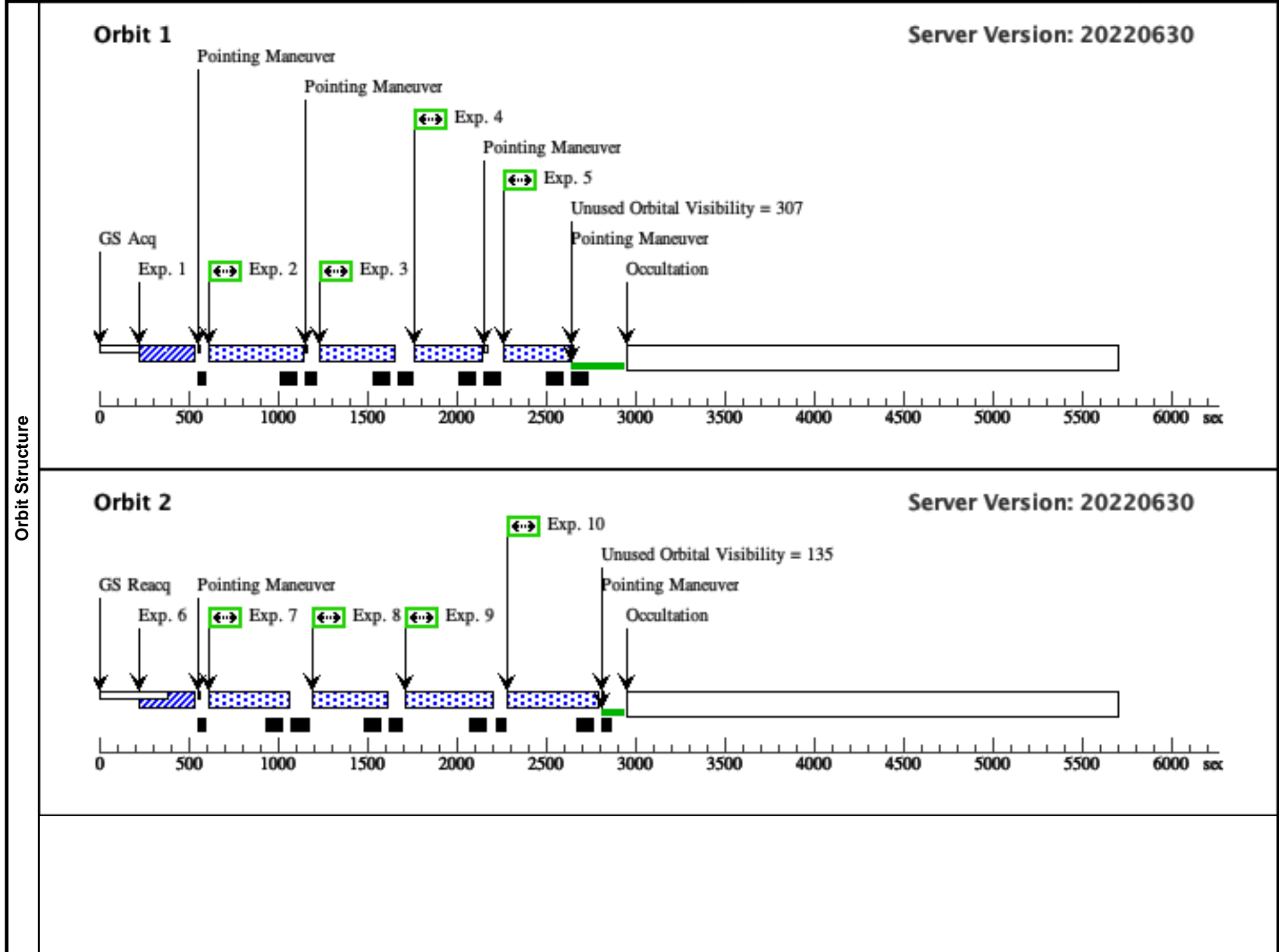
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following 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.154 0024)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=20 8; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2			318 Secs (318 Secs) [==>]	[1]
	<i>Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update. ETC buffer time is 1377 sec Set buffer time = exptime - 110 sec</i>									
	3	G130M/122 2/LP4 (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/LP4 conn ction (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	G130M/129 1/LP5 (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: ETC buffer time is 323 sec. Set buffer time = exptime - 110 sec</i>										
6	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs) [==>]	[2]	
<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>										

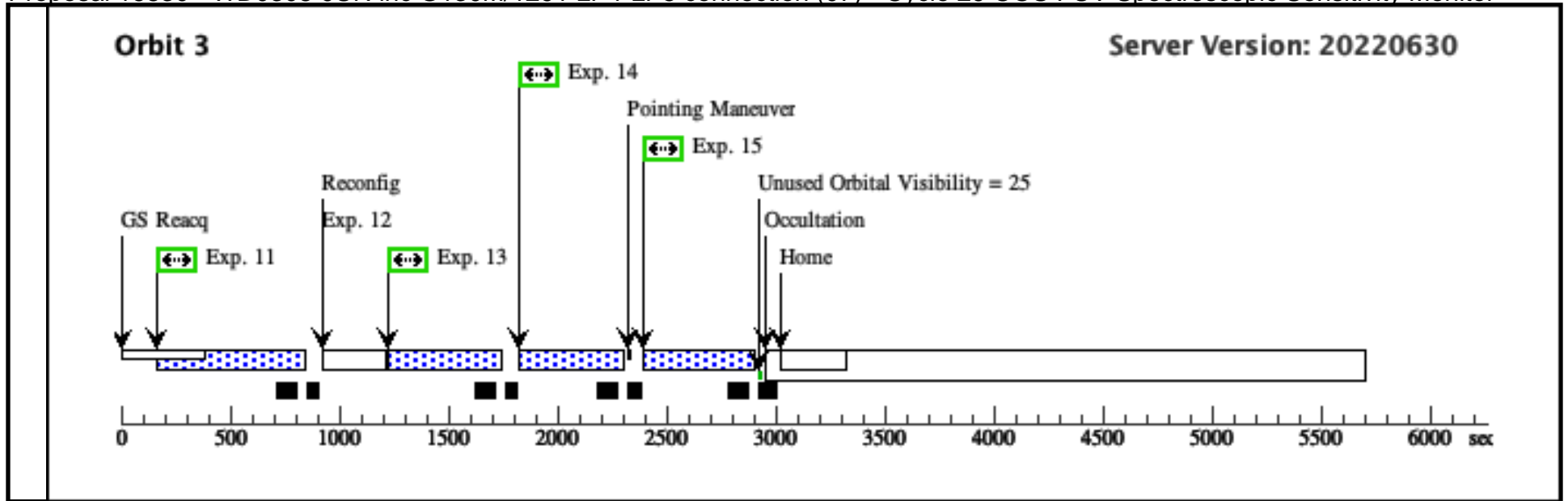
Proposal 16830 - WD0308-JUN inc G130M/1291 LP4-LP5 connection (07) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

7	G160M/153 3/BOTH/LP 4 (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]
<p>Comments: ETC buffer time is 502 sec. Set buffer time = exptime - 110 sec.</p>							
8	G160M/157 7/BOTH/LP 4 (COS.sp.154 0036)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=18 1; LIFETIME-POS=L P4; SEGMENT=BOTH	291 Secs (291 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec.</p>							
9	G160M/161 1/BOTH/LP 4 (COS.sp.154 0046)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=3; BUFFER-TIME=25 0; LIFETIME-POS=L P4; SEGMENT=BOTH	360 Secs (360 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 755 sec. Set buffer time = exptime - 110 sec.</p>							
10	G160M/162 3/BOTH/LP 4 (COS.sp.154 0050)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=27 8; LIFETIME-POS=L P4; SEGMENT=BOTH	388 Secs (388 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 814 sec. Set buffer time = exptime - 110 sec.</p>							
11	G140L/1280 /LP3 (COS.sp.154 0033)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=29 1; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH	401 Secs (401 Secs) [==>]	[3]
<p>Comments: ETC buffer time is 503 sec. Set buffer time = exptime - 110 sec.</p>							
12	DARK		S/C, DATA, NONE		QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[3]
<p>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</p>							

Proposal 16830 - WD0308-JUN inc G130M/1291 LP4-LP5 connection (07) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

13	G140L/800/ FUVA/LP3 (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]
<p>Comments: ETC buffer time is 350 sec. Set buffer time = exptime - 110 sec</p>							
14	G140L/1105/ /FUVA/LP3 (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>Comments: ETC buffer time is 358 sec. Set buffer time = exptime - 110 sec</p>							
15	G130M/132 7/FUVA/LP 5 (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>Comments: ETC buffer time is 324 sec. set buffer time = exptime - 110 sec</p>							





Proposal 16830 - WD0308-AUG inc G140L/800 LP4-LP3 connection (08) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

Visit	<p>Proposal 16830, WD0308-AUG inc G140L/800 LP4-LP3 connection (08), completed Fri Aug 26 18:01:54 GMT 2022</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 10-AUG-2022:00:00:00 AND 24-AUG-2022:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).</i></p>																
	<p>Diagnosics (WD0308-AUG inc G140L/800 LP4-LP3 connection (08)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.</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	Reference Frame: ICRS
	#	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 16830 - WD0308-AUG inc G140L/800 LP4-LP3 connection (08) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

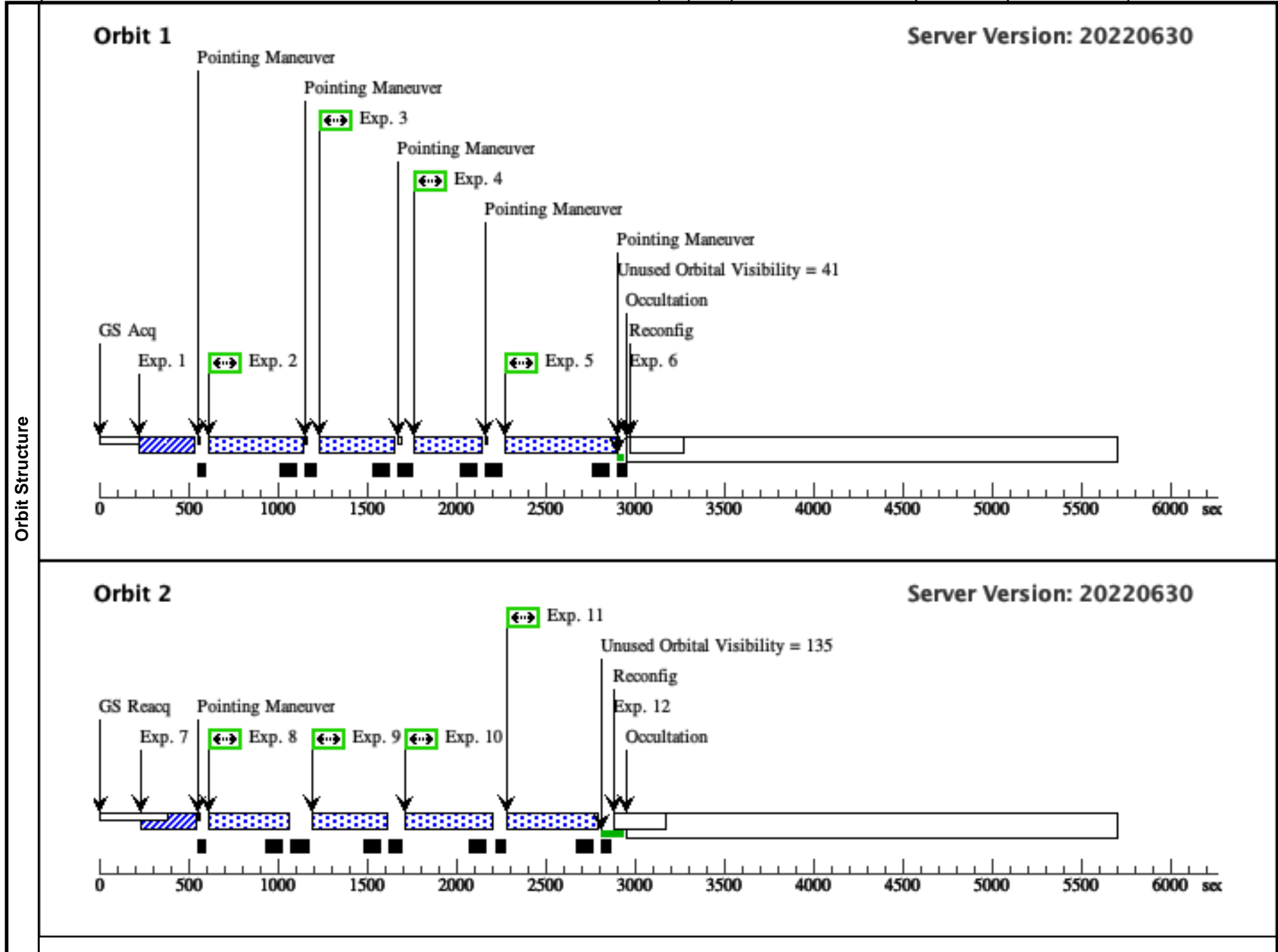
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following 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.154 0024)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=20 8; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2			318 Secs (318 Secs) [==>]	[1]
	<i>Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update. ETC buffer time is 1377 sec Set buffer time = exptime - 110 sec</i>									
	3	G130M/122 2/LP4 (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/LP5 (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: ETC buffer time is 323 sec. Set buffer time = exptime - 110 sec</i>										
5	G140L/1280 /LP3 (COS.sp.154 0033)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=29 1; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			401 Secs (401 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 503 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	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs) [==>]	[2]	
<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>										

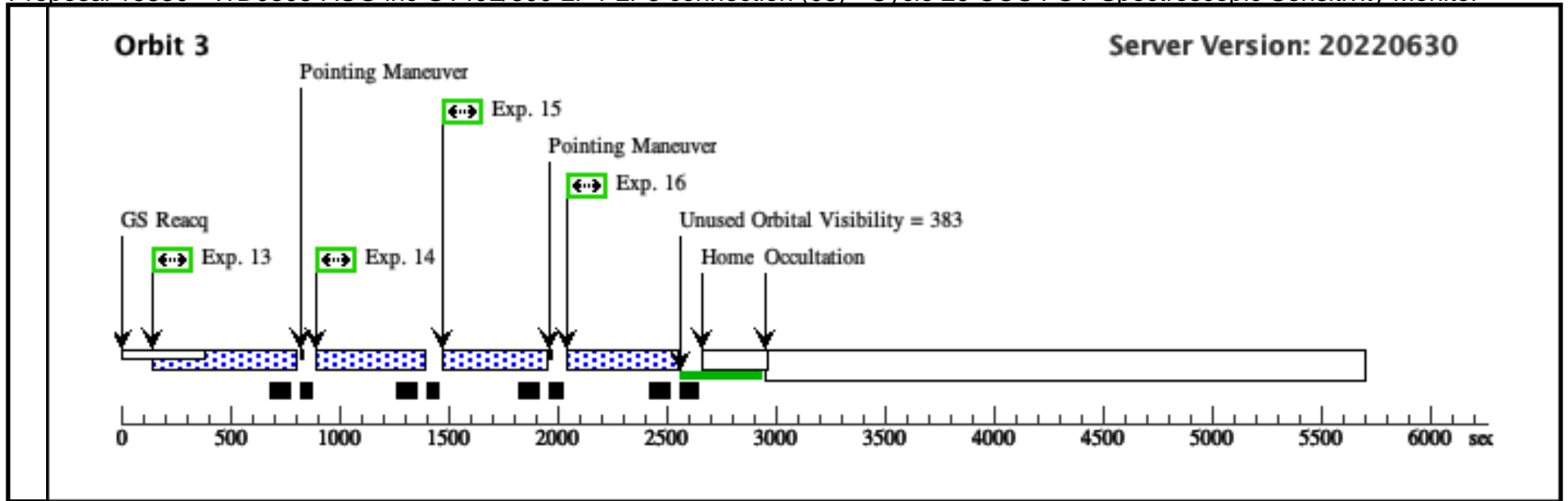
Proposal 16830 - WD0308-AUG inc G140L/800 LP4-LP3 connection (08) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

8	G160M/153 3/B/LP4 (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]
<p>Comments: ETC buffer time is 502 sec. Set buffer time = exptime - 110 sec.</p>							
9	G160M/157 7/B/LP4 (COS.sp.154 0036)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=18 1; LIFETIME-POS=L P4; SEGMENT=B	291 Secs (291 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec.</p>							
10	G160M/161 1/B/LP4 (COS.sp.154 0046)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=3; BUFFER-TIME=25 0; LIFETIME-POS=L P4; SEGMENT=B	360 Secs (360 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 755 sec. Set buffer time = exptime - 110 sec.</p>							
11	G160M/162 3/B/LP4 (COS.sp.154 0050)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=27 8; LIFETIME-POS=L P4; SEGMENT=B	388 Secs (388 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 814 sec. Set buffer time = exptime - 110 sec.</p>							
12	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>							
13	G140L/800/ FUVA/LP4 connection (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]
<p>Comments: ETC buffer time is 350 sec. Set buffer time = exptime - 110 sec.</p>							

Proposal 16830 - WD0308-AUG inc G140L/800 LP4-LP3 connection (08) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

14	G140L/800/ FUVA/LP3 (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]
<p>Comments: ETC buffer time is 350 sec. Set buffer time = exptime - 110 sec</p>							
15	G140L/1105 /FUVA/LP3 (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>Comments: ETC buffer time is 358 sec. Set buffer time = exptime - 110 sec</p>							
16	G130M/132 7/FUVA/LP 5 (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>Comments: ETC buffer time is 324 sec. set buffer time = exptime - 110 sec</p>							



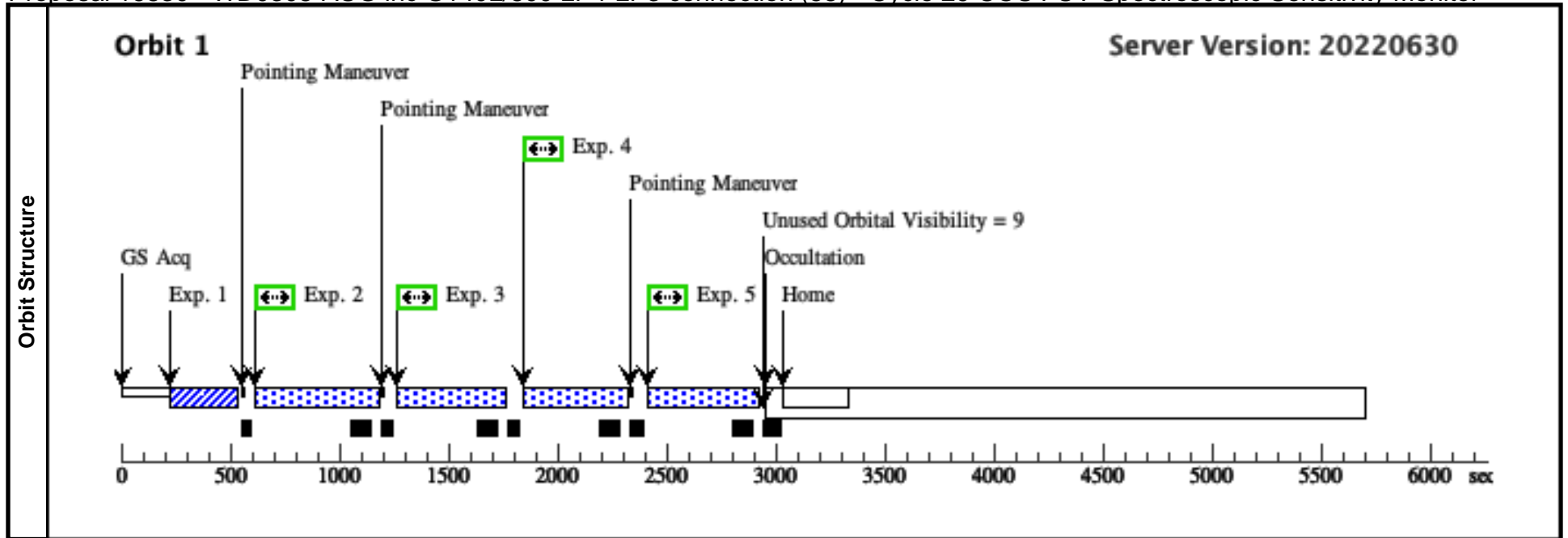


Proposal 16830 - WD0308-AUG inc G140L/800 LP4-LP3 connection (58) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

Visit	Proposal 16830, WD0308-AUG inc G140L/800 LP4-LP3 connection (58) Fri Aug 26 18:01:54 GMT 2022					
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100% <i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).</i>					
Diagnostics	(WD0308-AUG inc G140L/800 LP4-LP3 connection (58)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.					
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: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS
<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> Category=STAR Description=[DB] Extended=NO						

Proposal 16830 - WD0308-AUG inc G140L/800 LP4-LP3 connection (58) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	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	G140L/800/ FUVA/LP4 connection (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) [==>]	[1]
	<i>Comments: ETC buffer time is 350 sec. Set buffer time = exptime - 110 sec</i>										
	3	G140L/800/ FUVA/LP3 (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) [==>]	[1]
	<i>Comments: ETC buffer time is 350 sec. Set buffer time = exptime - 110 sec</i>										
	4	G140L/1105 /FUVA/LP3 (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) [==>]	[1]
	<i>Comments: ETC buffer time is 358 sec. Set buffer time = exptime - 110 sec</i>										
	5	G130M/132 7/FUVA/LP 5 (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) [==>]	[1]
<i>Comments: ETC buffer time is 324 sec. set buffer time = exptime - 110 sec</i>											



Proposal 16830 - GD71-AUG (09) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

Fri Aug 26 18:01:54 GMT 2022

Visit	<p>Proposal 16830, GD71-AUG (09), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 15-AUG-2022:00:00:00 AND 29-AUG-2022:00:00:00</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>					
	<p>Diagnosics</p> <p>(GD71-AUG (09)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.</p>					
Fixed Targets	#	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
<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>						

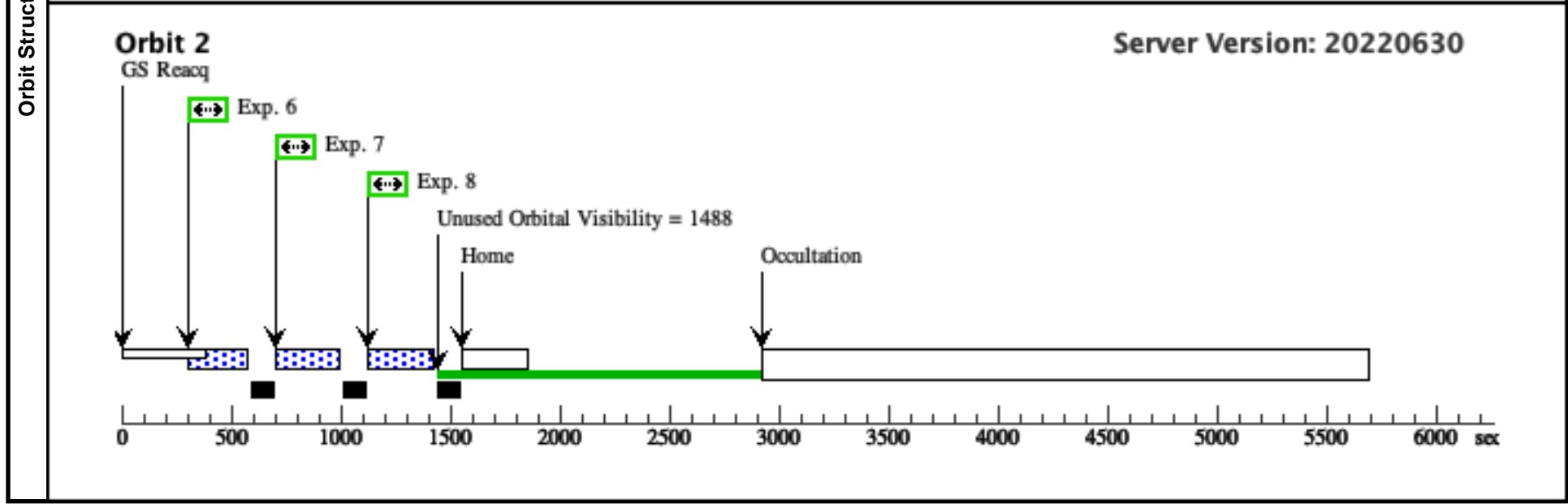
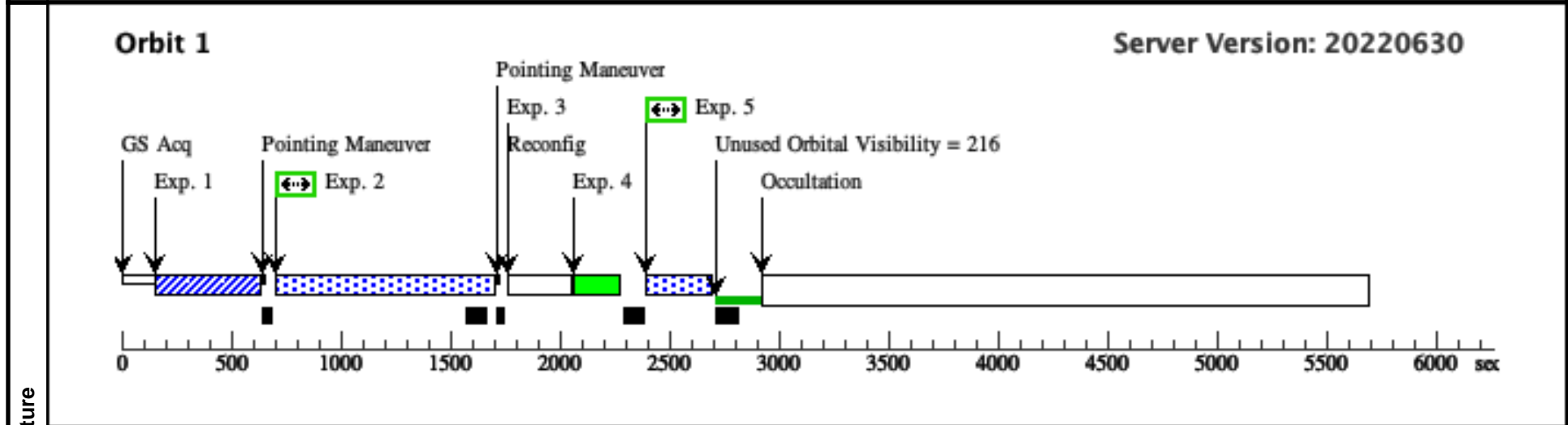
Proposal 16830 - GD71-AUG (09) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

#	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.154 0055)	(2) GD71	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=68 3; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			793 Secs (793 Secs) [==>]	[1]
<i>Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update.</i>									
<i>FUVB only (all ETC warnings come from FUVA). The FUVB count rate is 594 cts/sec, so the buffer time is 2.35E6/594 = 3956 sec. Set buffer-time = exptime - 110 sec</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/LP 4 (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/LP 4 (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/161 1/FUVA/LP 4 (COS.sp.154 0058)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=15 9; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			159 Secs (159 Secs) [==>]	[2]
<i>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 5172 cts/sec, so the buffer time is 2.35E6/5172 = 454 sec. Set buffer-time = exptime</i>									

Exposures

Proposal 16830 - GD71-AUG (09) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

8	G160M/162 (2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=17	177 Secs (177 Secs)
	3/FUVA/LP 4 (COS.sp.145 7663)		1623 A	7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	[==>]
Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.					[2]



Proposal 16830 - WD0308-OCT (10) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

Fri Aug 26 18:01:54 GMT 2022

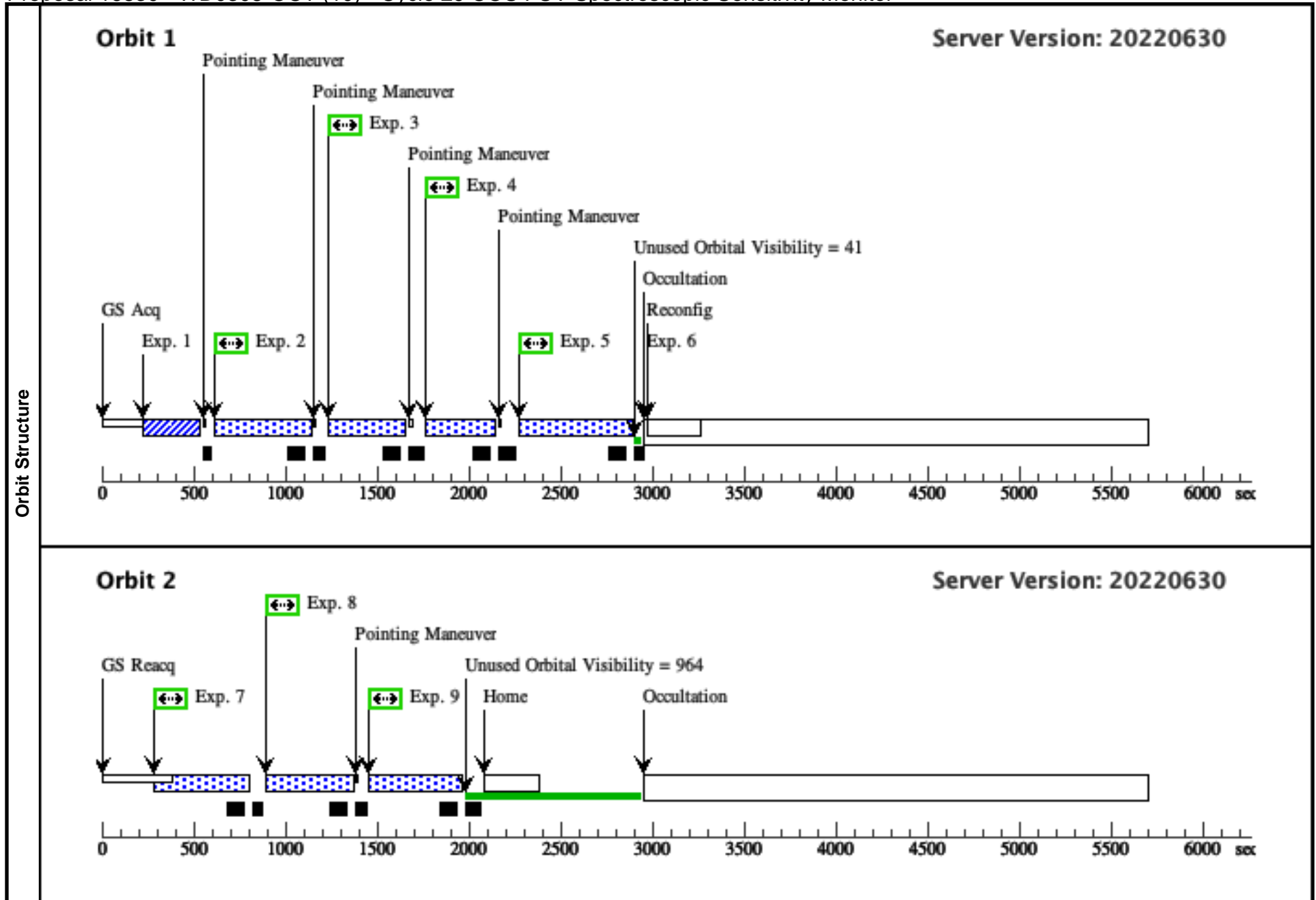
Visit	<p>Proposal 16830, WD0308-OCT (10), scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 26-SEP-2022:00:00:00 AND 18-NOV-2022:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).</i></p> <p><i>Visit 10 exposures occur after the move to LP6 in October 2022. G160M exposures have been changed from LP4 to LP6. The LPs for G130M and G140L cenwaves are unchanged.</i></p> <p><i>In Cycle 29 visit 10 has been split into two 2 orbit visits 10 and 12 to avoid the difficulty in scheduling a 4 orbit visit (accounting for increased overheads at LP6).</i></p>												
Diagnostics	<p>(WD0308-OCT (10)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.</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><i>Category=STAR</i> <i>Description=[DB]</i> <i>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	Reference Frame: ICRS
#	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 16830 - WD0308-OCT (10) - Cycle 29 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.154 0024)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=20 8; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2			318 Secs (318 Secs) [==>]	[1]
	<i>Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update. ETC buffer time is 1377 sec Set buffer time = exptime - 110 sec</i>									
	3	G130M/122 2/LP4 (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/LP5 (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: ETC buffer time is 323 sec. Set buffer time = exptime - 110 sec</i>										
5	G140L/1280 /LP3 (COS.sp.154 0033)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=29 1; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			401 Secs (401 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 503 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	G140L/800/ FUVA/LP3 (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]	
<i>Comments: ETC buffer time is 350 sec. Set buffer time = exptime - 110 sec</i>										

Proposal 16830 - WD0308-OCT (10) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

8	G140L/1105 (1) WD0308-565 /FUVA/LP3 (COS.sp.145 7846)	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)	[==>]	[2]
<p>Comments: ETC buffer time is 358 sec. Set buffer time = exptime - 110 sec</p>							
9	G130M/132 (1) WD0308-565 7/FUVA/LP 5 (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)	[==>]	[2]
<p>Comments: ETC buffer time is 324 sec. set buffer time = exptime - 110 sec</p>							



Proposal 16830 - WD0308-OCT (12) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

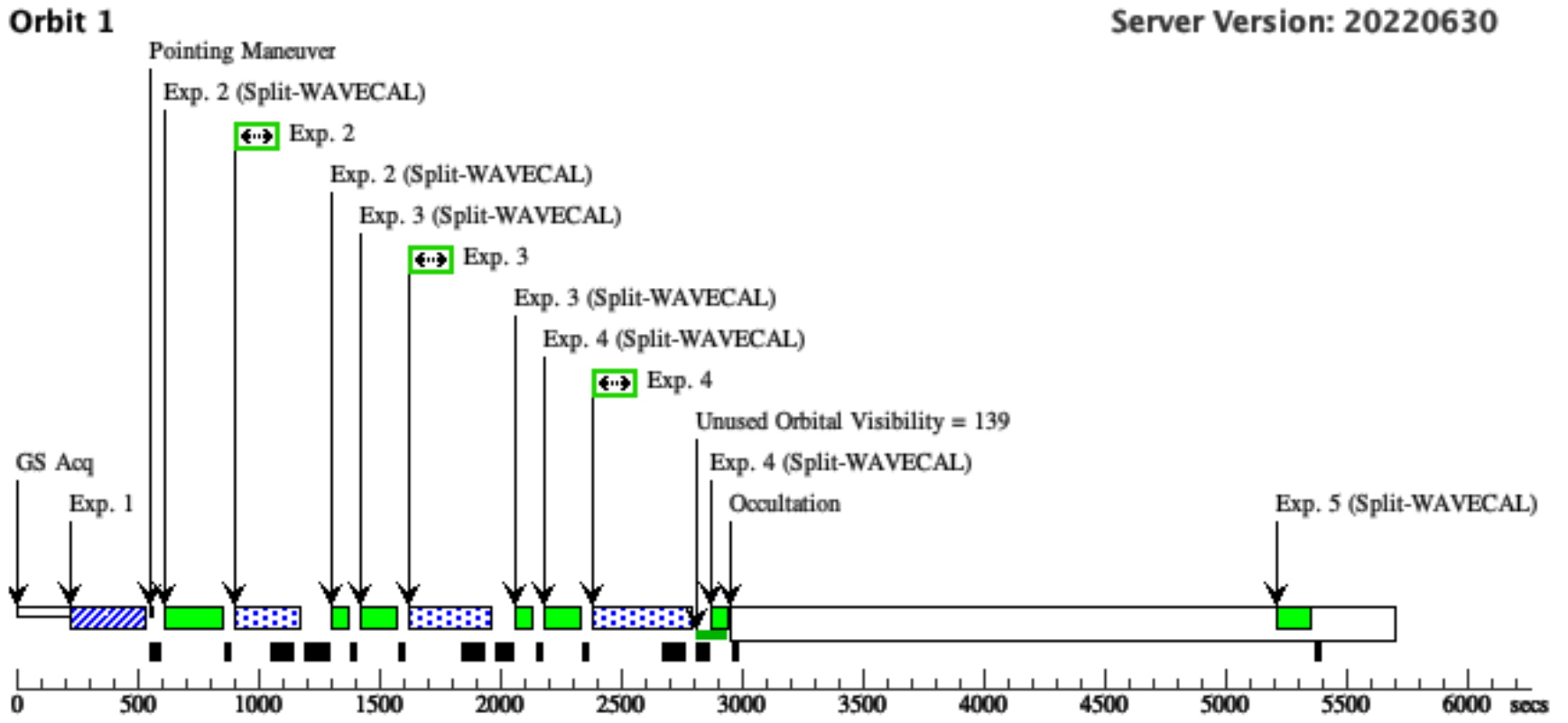
Fri Aug 26 18:01:54 GMT 2022

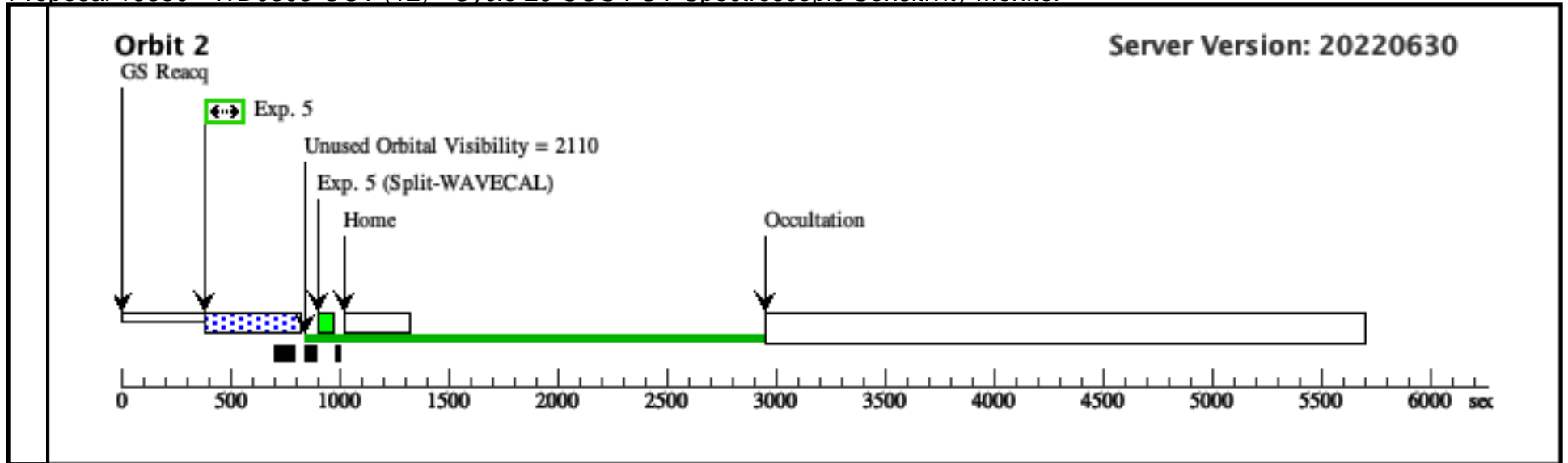
Visit	<p>Proposal 16830, WD0308-OCT (12), scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 26-SEP-2022:00:00:00 AND 18-NOV-2022:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off). Occurs after LP6 is active.</i></p> <p><i>Visit 12 exposures occur after the move to LP6 in October 2022. G160M exposures have been changed from LP4 to LP6. The LPs for G130M and G140L cenwaves are unchanged.</i></p> <p><i>In Cycle 29 visit 10 has been split into two 2 orbit visits 10 and 12 to avoid the difficulty in scheduling a 4 orbit visit (accounting for increased overheads at LP6). Visit 12 is currently 1 orbit but will be two once LP6 split-wavecals are enabled in TRANS.</i></p>																
	<p>Diagnosics</p> <p>(WD0308-OCT (12)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.</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><i>Category=STAR</i> <i>Description=[DB]</i> <i>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	Reference Frame: ICRS
	#	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 16830 - WD0308-OCT (12) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	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	G160M/153 3/B/LP6 (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 P6; SEGMENT=B			223 Secs (223 Secs)	
										[==>]	[1]
<i>Comments: ETC buffer time is 502 sec. Set buffer time = exptime - 110 sec.</i>											
3	G160M/157 7/B/LP6 (COS.sp.154 0036)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	1577 A	FP-POS=3; BUFFER-TIME=18 1; LIFETIME-POS=L P6; SEGMENT=B			291 Secs (291 Secs)		
									[==>]	[1]	
<i>Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec.</i>											
4	G160M/161 1/B/LP6 (COS.sp.154 0046)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	1611 A	FP-POS=3; BUFFER-TIME=25 0; LIFETIME-POS=L P6; SEGMENT=B			360 Secs (360 Secs)		
									[==>]	[1]	
<i>Comments: ETC buffer time is 755 sec. Set buffer time = exptime - 110 sec.</i>											
5	G160M/162 3/B/LP6 (COS.sp.154 0050)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	1623 A	FP-POS=3; BUFFER-TIME=27 8; LIFETIME-POS=L P6; SEGMENT=B			388 Secs (388 Secs)		
									[==>]	[2]	
<i>Comments: ETC buffer time is 814 sec. Set buffer time = exptime - 110 sec.</i>											

Orbit Structure





Proposal 16830 - GD71-OCT (11) - Cycle 29 COS FUV Spectroscopic Sensitivity Monitor

Fri Aug 26 18:01:54 GMT 2022

Visit	<p>Proposal 16830, GD71-OCT (11), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 16-OCT-2022:00:00:00 AND 29-OCT-2022:00:00:00</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> <p><i>Visit 11 exposures occur after the move to LP6 in October 2022. G160M exposures have been changed from LP4 to LP6. The LPs for G130M and G140L cenwaves are unchanged.</i></p>												
Diagnostics	<p>(GD71-OCT (11)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.</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	Reference Frame: ICRS
#	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 16830 - GD71-OCT (11) - Cycle 29 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 (2) GD71 (COS.ta.839 574)	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs) [==>]	[1]	
	<i>Comments: See Visit 02 comments.</i>									
	2	G130M/109 (2) GD71 6/FUVB/LP 2 (COS.sp.154 0055)	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=68 3; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			793 Secs (793 Secs) [==>]	[1]	
	<i>Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update.</i>									
	<i>FUVB only (all ETC warnings come from FUVA). The FUVB count rate is 594 cts/sec, so the buffer time is 2.35E6/594 = 3956 sec. Set buffer-time = exptime - 110 sec</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 WAVE 6/FUVA W AVECAL/L P2		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 (2) GD71 3/FUVA/LP 6 (COS.sp.145 7660)		COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 6; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6			106 Secs (106 Secs) [==>]	[1]	
<i>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</i>										
6	G160M/157 (2) GD71 7/FUVA/LP 6 (COS.sp.145 7661)		COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=13 5; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6			135 Secs (135 Secs) [==>]	[2]	
<i>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</i>										
7	G160M/161 (2) GD71 1/FUVA/LP 6 (COS.sp.154 0058)		COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=15 9; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6			159 Secs (159 Secs) [==>]	[2]	
<i>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 5172 cts/sec, so the buffer time is 2.35E6/5172 = 454 sec. Set buffer-time = exptime</i>										

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8	G160M/162 (2) GD71 3/FUVA/LP 6 (COS.sp.145 7663)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=17 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6	177 Secs (177 Secs) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</p>						

