



17249 - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Cycle: 30, Proposal Category: CAL/COS

(Availability Mode: RESTRICTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Kate Rowlands (PI) (Contact)	Space Telescope Science Institute
Dr. Ravi Sankrit (CoI) (Contact)	Space Telescope Science Institute
Elaine M Frazer (CoI) (Contact)	Space Telescope Science Institute
Dr. Marc Rafelski (CoI)	Space Telescope Science Institute
Dr. Bethan Lesley James (CoI) (ESA Member)	Space Telescope Science Institute - ESA - JWST

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>
1A	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	24-May-2023 12:00:17.0	yes
1B	(1) WD0308-565	COS/FUV COS/NUV	1	24-May-2023 12:00:18.0	yes
1C	(1) WD0308-565	COS/FUV COS/NUV	1	24-May-2023 12:00:19.0	yes
1D	(1) WD0308-565	COS/FUV COS/NUV	1	24-May-2023 12:00:21.0	yes
02	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	24-May-2023 12:00:23.0	yes

Proposal 17249 (STScI Edit Number: 5, Created: Wednesday, May 24, 2023 at 11:00:59 AM Eastern Standard Time) - Overview

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
3A	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	24-May-2023 12:00:24.0	yes
3B	(1) WD0308-565	COS/FUV COS/NUV	2	24-May-2023 12:00:27.0	yes
04	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	24-May-2023 12:00:29.0	yes
54	(2) GD71	COS/FUV COS/NUV	1	24-May-2023 12:00:30.0	yes
5A	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	24-May-2023 12:00:31.0	yes
5C	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	24-May-2023 12:00:33.0	yes
5B	(1) WD0308-565	COS/FUV COS/NUV	2	24-May-2023 12:00:35.0	yes
5D	(1) WD0308-565	COS/FUV COS/NUV	2	24-May-2023 12:00:38.0	yes
56	(1) WD0308-565	COS/FUV COS/NUV	2	24-May-2023 12:00:40.0	yes
06	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	24-May-2023 12:00:42.0	yes
7A	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	24-May-2023 12:00:43.0	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>
7B	(1) WD0308-565	COS/FUV COS/NUV	2	24-May-2023 12:00:46.0	yes
8A	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	24-May-2023 12:00:47.0	yes
8B	(1) WD0308-565	COS/FUV COS/NUV	2	24-May-2023 12:00:50.0	yes
09	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	24-May-2023 12:00:52.0	yes
10	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	24-May-2023 12:00:54.0	yes
12	(1) WD0308-565	COS/FUV COS/NUV	2	24-May-2023 12:00:56.0	yes
11	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	24-May-2023 12:00:58.0	yes

42 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 6 orbits: a 2 orbit visit (target WD0308-565) that covers

G130M/1055,
G130M/1222,
G130M/1291,
G130M/1327/FUVA,
G140L/800/FUVA,
G140L/1105/FUVA,
G140L/1280,

a 2 orbit visit (target WD0308-565) that covers

G160M/1533/FUVB
G160M/1577/FUVB,
G160M/1611/FUVB,
G160M/1623/FUVB,

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 observations will be done at LP4, G160M observations will be done at LP6, and G130M/1055 and G130M/1096 will be done at LP2.

In Cycle 30, LP4-LP6 connection exposures for G160M/1533, 1577, 1611 and 1623 were added to check sensitivity changes between LPs, two

G160M cenwaves per visit.

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.

SNR requirements:

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

ETC calculations:

- The ETC calculations use CALSPEC standard model versions wd0308_565_mod_006.fits and gd71_mod_011.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 2022.
- GD71 is unschedulable May-July, and therefore that sequence will consist of only one visit.

The exposure times and organization of visits follows the scheme used in Cycle 29, with the exception of the exposure times for cenwaves 1096 and 1280, which have been updated to reflect the most recent exposure times following updates to the FLUXTAB. As in Cycle 28, for all but four sets of

Proposal 17249 (STScI Edit Number: 5, Created: Wednesday, May 24, 2023 at 11:00:59 AM Eastern Standard Time) - Overview
the WD0308-565 observations using G160M, the specifications now are SEGMENT=B (i.e. segment A is turned off). One exception is the June sequence (visit 7A, 7B) for which the specifications are SEGMENT=BOTH for these modes, because GD71 is not available during this period. Additionally three other exceptions exist in Cycle 30 to support a Cycle 30 CO program which requires monitoring of G160M/1533 and 1577 at both LP6 and LP4 using both segments.

In Cycle 29, an additional NUV ACQ/IMAGE was added at the beginning of the second orbit of the 2 orbit WD0308-565 visits to protect against guide star reacquisition failures, which this particular target is prone to.

In Cycle 30, the WD0308-565 visit was split into 2x2 orbits to ease scheduling, avoiding 4 orbit visits.

Proposal 17249 - WD0308-DEC (1A) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:00:59 GMT 2023

Visit	Proposal 17249, WD0308-DEC (1A), completed Diagnostic Status: Warning Scientific Instruments: S/C, COS/FUV, COS/NUV Special Requirements: SCHED 100%; BETWEEN 10-DEC-2022:00:00:00 AND 24-DEC-2022:00:00:00																
	(WD0308-DEC (1A)) 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.																
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				
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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																	

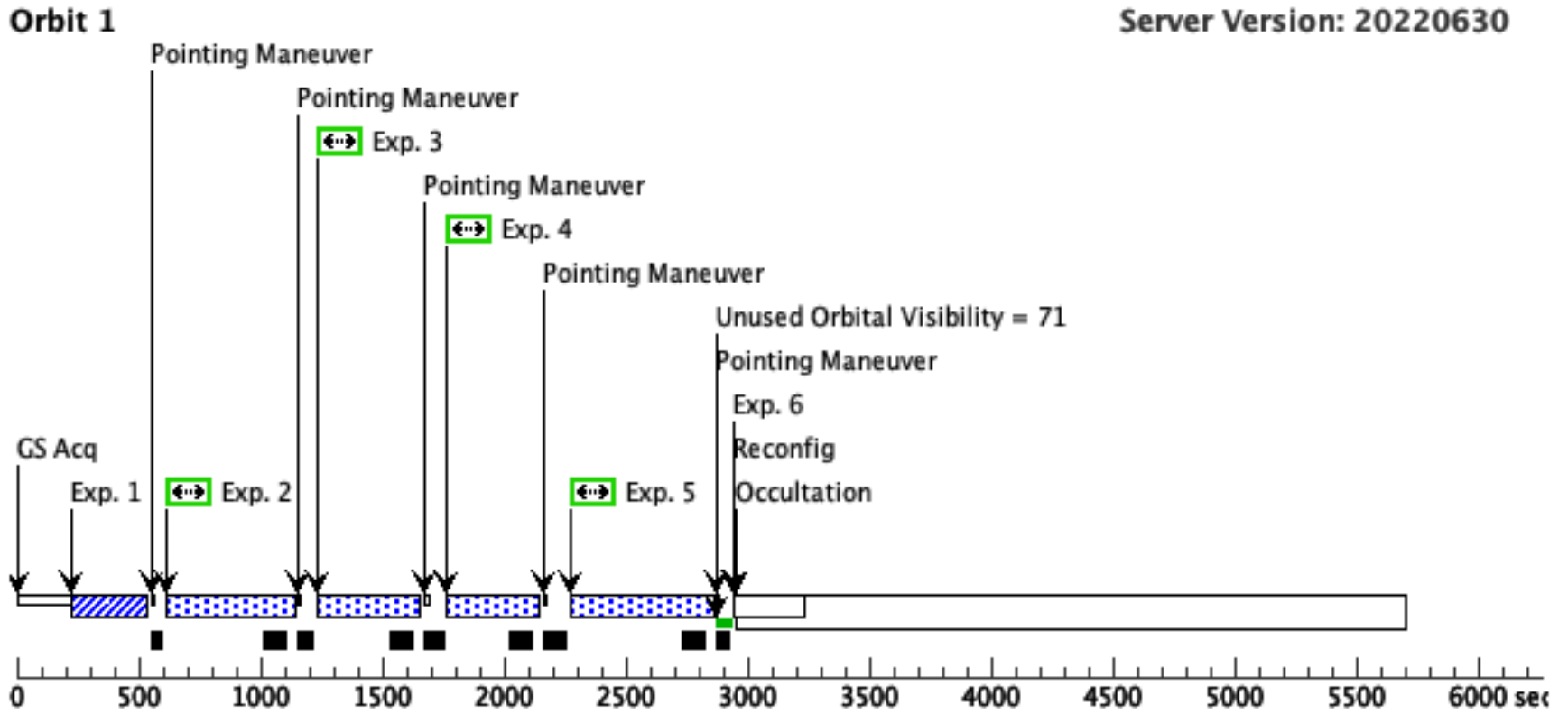
Proposal 17249 - WD0308-DEC (1A) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

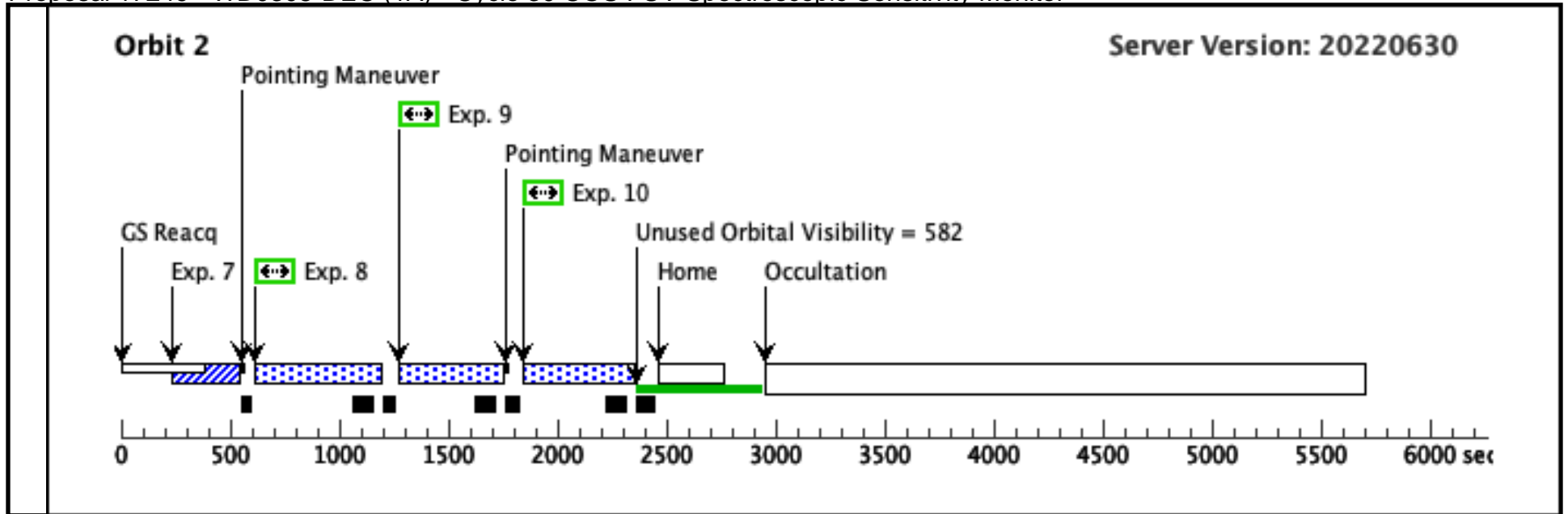
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following 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.182 0354)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=26 1; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			371 Secs (371 Secs) [==>]	[1]	
<i>Comments: Cycle 30 comment: exposure time updated following FLUXTAB update. ETC buffer time is 520 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 17249 - WD0308-DEC (1A) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

8	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]
<p>Comments: ETC buffer time is 350 sec. Set buffer time = exptime - 110 sec</p>							
9	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) [==>]	[2]
<p>Comments: ETC buffer time is 358 sec. Set buffer time = exptime - 110 sec</p>							
10	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) [==>]	[2]
<p>Comments: ETC buffer time is 324 sec. set buffer time = exptime - 110 sec</p>							

Orbit Structure





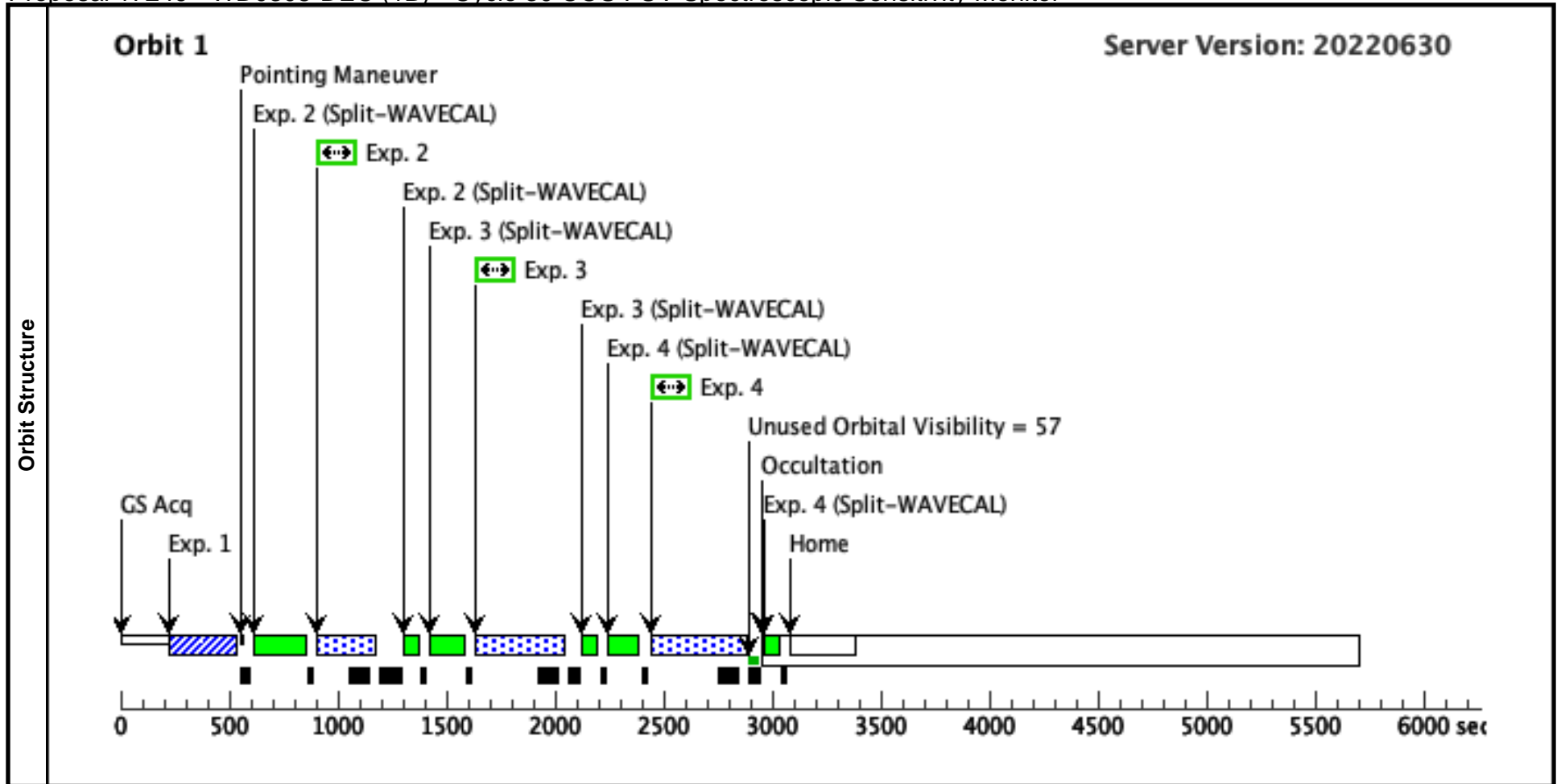
Proposal 17249 - WD0308-DEC (1B) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:00:59 GMT 2023

Visit	<p>Proposal 17249, WD0308-DEC (1B), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 10-DEC-2022:00:00:00 AND 24-DEC-2022:00:00:00; GROUP 1B,1C WITHIN 7D</p> <p><i>Comments: All G160M observations are with SEGMENT = BOTH. Using "SEGMENT=BOTH" instead of "SEGMENT=B" for both LP4 and LP6 observations for the G160M settings to support a Cycle 30 GO program which needs both segments monitored at LP4 and LP6. (FUVA is also observed for G160M using GD71 in visit 02).</i></p> <p><i>1533 & 1577 LP4. Split over visits 1B and 1C due to scheduling constraints.</i></p>																
	<p>Diagnosics</p> <p>(WD0308-DEC (1B)) 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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(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 17249 - WD0308-DEC (1B) - Cycle 30 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.</i>										
	<i>Cycle 28 comment: we continue to use the same exposure time since differences do not affect orbit request.</i>										
	2	G160M/153 3/BOTH/LP 6 (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)	
									[==>]	[1]	
	<i>Comments: ETC buffer time is 502 sec.</i>										
	<i>Set buffer time = exptime - 110 sec.</i>										
	3	G160M/161 1/BOTH/LP 6 (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)	
								[==>]	[1]		
<i>Comments: ETC buffer time is 755 sec.</i>											
<i>Set buffer time = exptime - 110 sec.</i>											
4	G160M/162 3/BOTH/LP 6 (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=BOTH			388 Secs (388 Secs)		
								[==>]	[1]		
<i>Comments: ETC buffer time is 814 sec.</i>											
<i>Set buffer time = exptime - 110 sec.</i>											



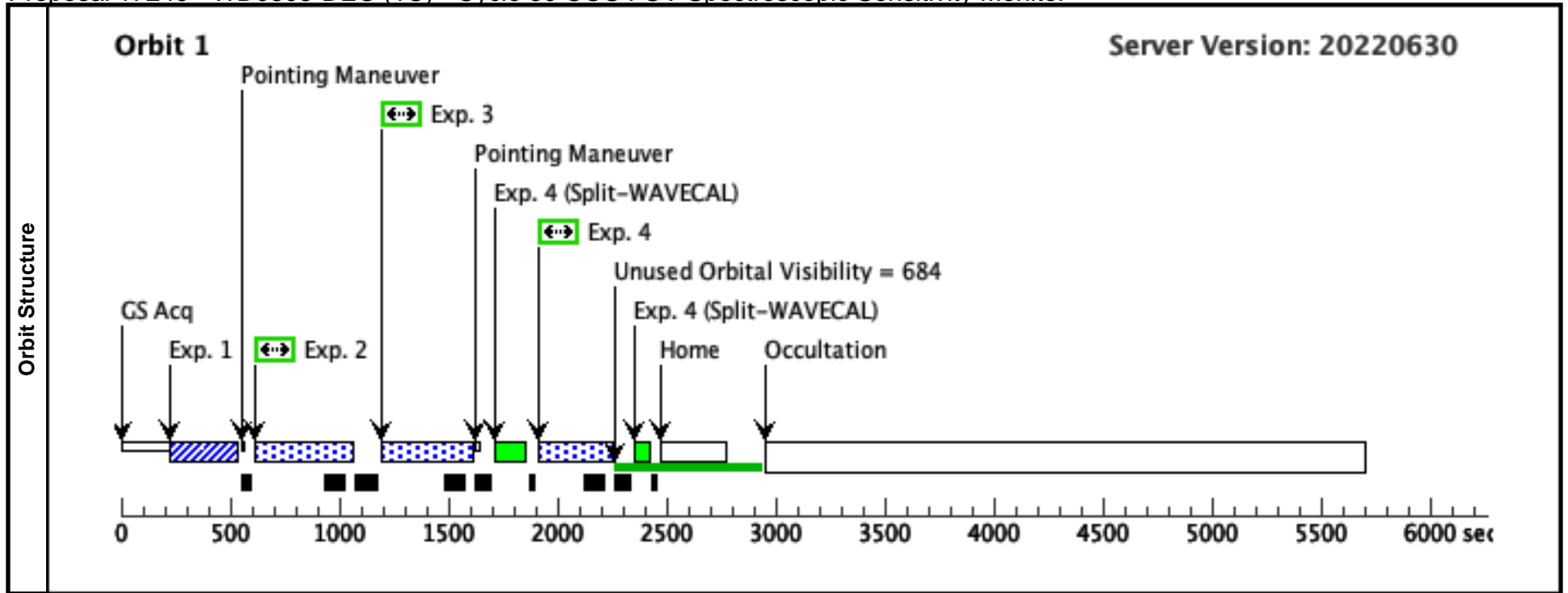
Proposal 17249 - WD0308-DEC (1C) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:00:59 GMT 2023

Visit	<p>Proposal 17249, WD0308-DEC (1C), failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 10-DEC-2022:00:00:00 AND 24-DEC-2022:00:00:00; GROUP 1C,1B WITHIN 7D</p> <p><i>Comments: All G160M observations are with SEGMENT = BOTH. Using "SEGMENT=BOTH" instead of "SEGMENT=B" for both LP4 and LP6 observations for the G160M settings to support a Cycle 30 GO program which needs both segments monitored at LP4 and LP6. (FUVA is also observed for G160M using GD71 in visit 02).</i></p> <p><i>1533 & 1577 LP4. Split over visits 1B and 1C due to scheduling constraints.</i></p>																
	<p>(WD0308-DEC (1C)) 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 17249 - WD0308-DEC (1C) - Cycle 30 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/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)	
										[==>]	[1]
	<i>Comments: ETC buffer time is 502 sec. Set buffer time = exptime - 110 sec.</i>										
	3	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)	
										[==>]	[1]
	<i>Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec.</i>										
4	G160M/157 7/BOTH/LP 6 (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)		
									[==>]	[1]	
<i>Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec.</i>											



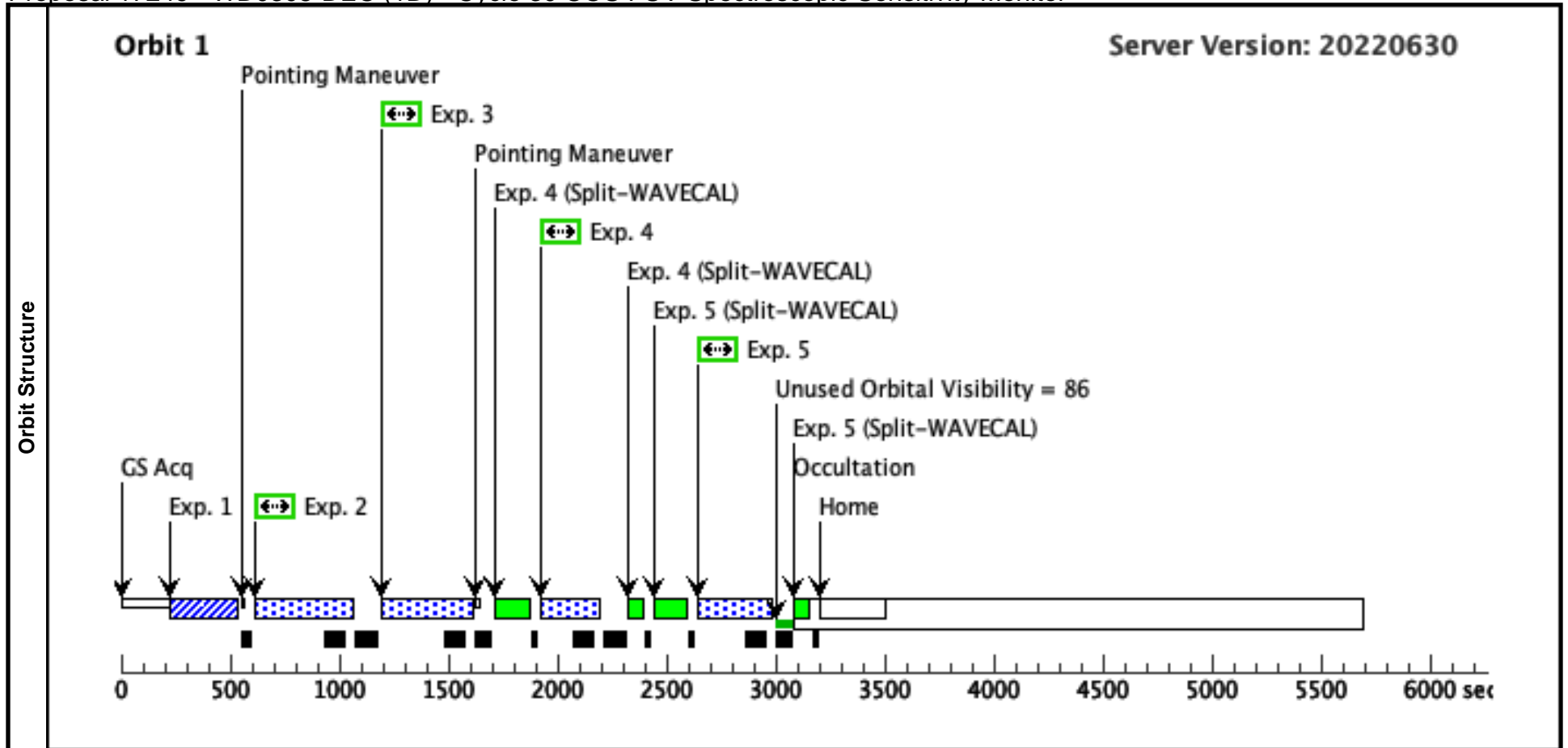
Proposal 17249 - WD0308-DEC (1D) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:00:59 GMT 2023

Visit	<p>Proposal 17249, WD0308-DEC (1D), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 80%</p> <p><i>Comments: All G160M observations are with SEGMENT = BOTH. Using "SEGMENT=BOTH" instead of "SEGMENT=B" for both LP4 and LP6 observations for the G160M settings to support a Cycle 30 GO program which needs both segments monitored at LP4 and LP6. (FUV is also observed for G160M using GD71 in visit 02).</i></p> <p><i>1533 & 1577 LP4. Split over visits 1B and 1C due to scheduling constraints. This is visit 1D, a repeat of the failed visit 1C. 1533 LP6 exposure from visit 1B repeated here to ensure the fidelity of the LP4-LP6 connection.</i></p>					
Diagnostics	<p>(WD0308-DEC (1D)) 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
	(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><i>Category=STAR</i></p> <p><i>Description=[DB]</i></p> <p><i>Extended=NO</i></p>					

Proposal 17249 - WD0308-DEC (1D) - Cycle 30 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/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)	
									[==>]	[1]	
	<i>Comments: ETC buffer time is 502 sec. Set buffer time = exptime - 110 sec.</i>										
	3	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)	
									[==>]	[1]	
	<i>Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec.</i>										
4	G160M/153 3/BOTH/LP 6 (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)		
								[==>]	[1]		
<i>Comments: ETC buffer time is 502 sec. Set buffer time = exptime - 110 sec.</i>											
5	G160M/157 7/BOTH/LP 6 (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)		
								[==>]	[1]		
<i>Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec.</i>											



Proposal 17249 - GD71-DEC (02) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:00:59 GMT 2023

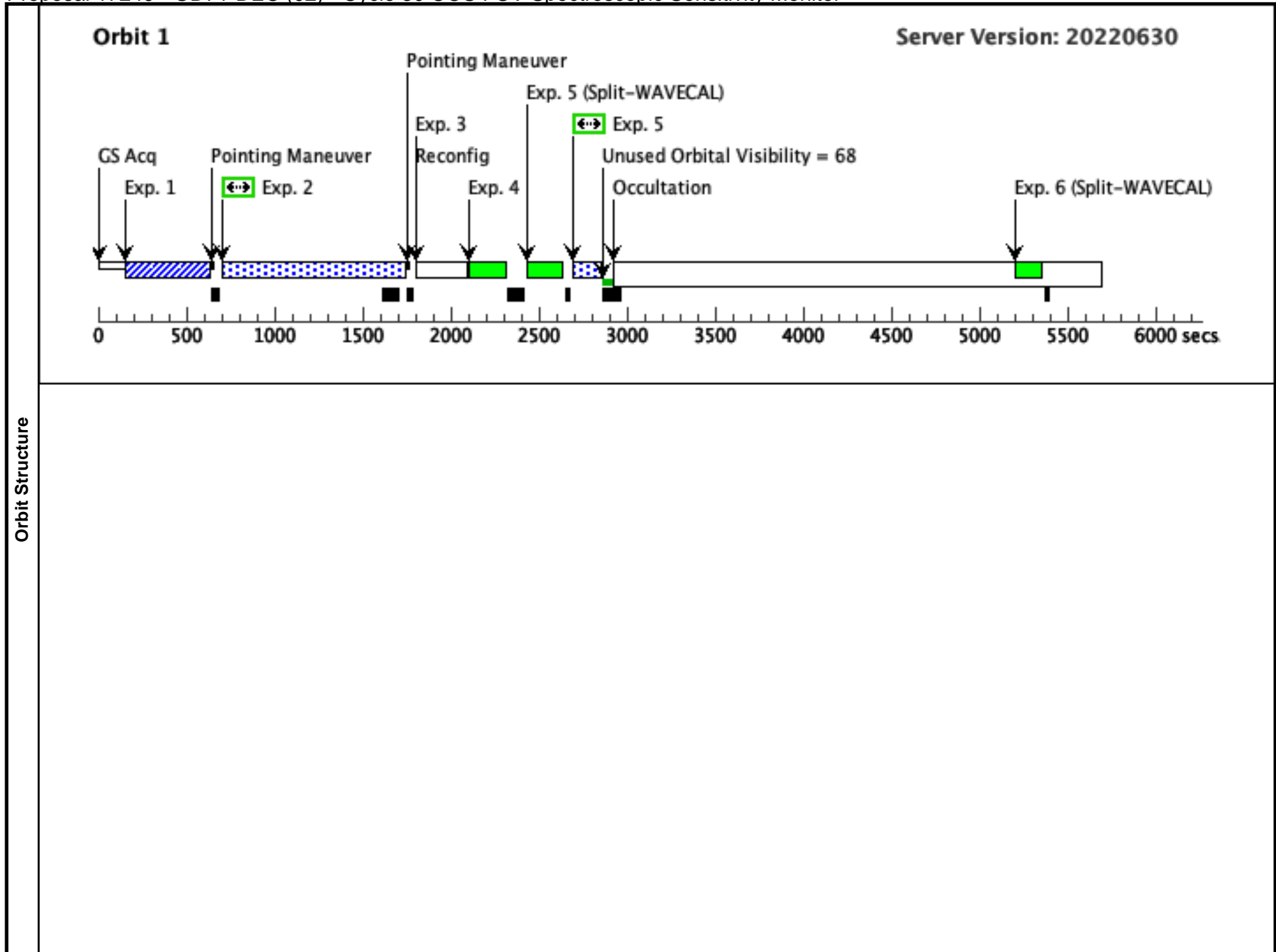
Visit	<p>Proposal 17249, GD71-DEC (02), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 10-DEC-2022:00:00:00 AND 24-DEC-2022:00:00:00</p> <p><i>Comments: exposure 4: GO wavecal to calculate the OSM shifts 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>1533 & 1577 LP4</i></p>																	
	<p>Diagnosics</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>																	
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>						#	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													
<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>																		

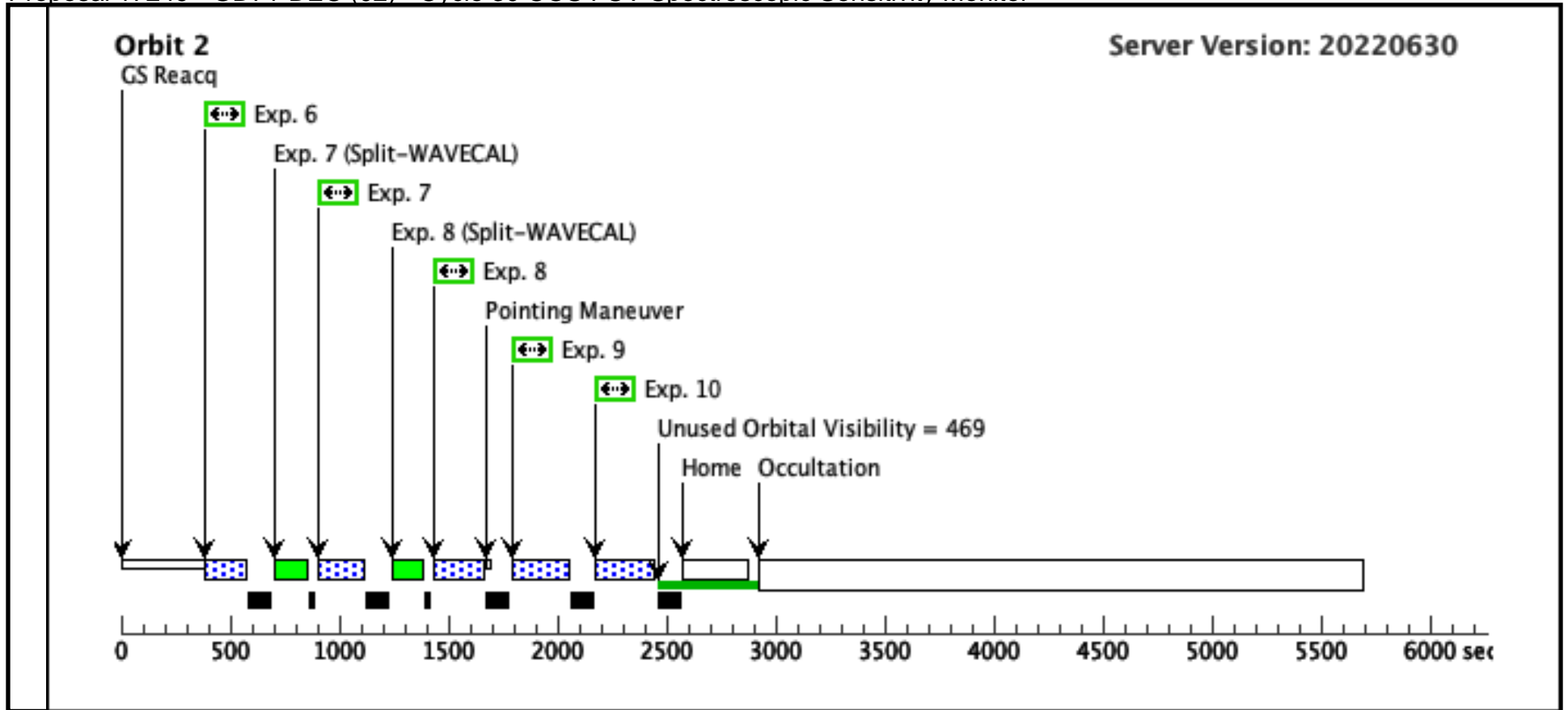
Proposal 17249 - GD71-DEC (02) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

#	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>Comments: Exptime for S/N of 60 is 105.5 sec, using 90 sec leads to S/N of 55. Cycle 28 comment: we continue to use the same exposure time since differences do not affect orbit request.</p>									
	2	G130M/109 (2) GD71 6/FUVB/LP 2 (COS.sp.182 0351)	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=71 9; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			829 Secs (829 Secs) [==>]	[1]	
	<p>Comments: Cycle 30 comment: exposure time updated following FLUXTAB update. FUVB only (all ETC warnings come from FUVA). The FUVB count rate is 549 cts/sec, so the buffer time is $2.35E6/566 = 4280$ sec. Set buffer-time = exptime - 110 sec</p>									
	3	DARK	S/C, DATA, NONE				QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[1]	
	<p>Comments: Work-around to efficiently schedule the SEG-B to SEG-A reconfiguration. Eliminates SPSS induced gaps.</p>									
4	G130M/109 WAVE 6/FUVA W AVECAL/L P2	COS/FUV, TIME-TAG, WCA	G130M 1096 A	FP-POS=3; SEGMENT=A; FLASH=NO; LIFETIME-POS=L P2			160 Secs (160 Secs) [==>]	[1]		
<p>Comments: Cycle 28: the exposure time has been updated to 160 seconds. This was determined after characterizing the decrease by about 12 percent in the summed count-rate with time over the period between December 2017 and April 2020.</p>										
5	G160M/153 (2) GD71 3/FUVA/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]		
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 9240 cts/sec, so the buffer time is $2.35E6/9240 = 254$ sec. Set buffer-time = exptime</p>										
6	G160M/157 (2) GD71 7/FUVA/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]		
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 6674 cts/sec, so the buffer time is $2.35E6/6674 = 352$ sec. Set buffer-time = exptime</p>										

Proposal 17249 - GD71-DEC (02) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

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]
<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 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). The FUVA count rate is 5095 cts/sec, so the buffer time is $2.35E6/5095 = 461$ sec. Set buffer-time = exptime</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). The FUVA count rate is 9240 cts/sec, so the buffer time is $2.35E6/9240 = 254$ sec. Set buffer-time = exptime</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). The FUVA count rate is 6674 cts/sec, so the buffer time is $2.35E6/6674 = 352$ sec. Set buffer-time = exptime</p>							





Proposal 17249 - WD0308-FEB (3A) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Visit	<p>Proposal 17249, WD0308-FEB (3A), completed Wed May 24 16:00:59 GMT 2023</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 03-FEB-2023:00:00:00 AND 24-FEB-2023:00:00:00</p>																
	<p>(WD0308-FEB (3A)) 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>																	

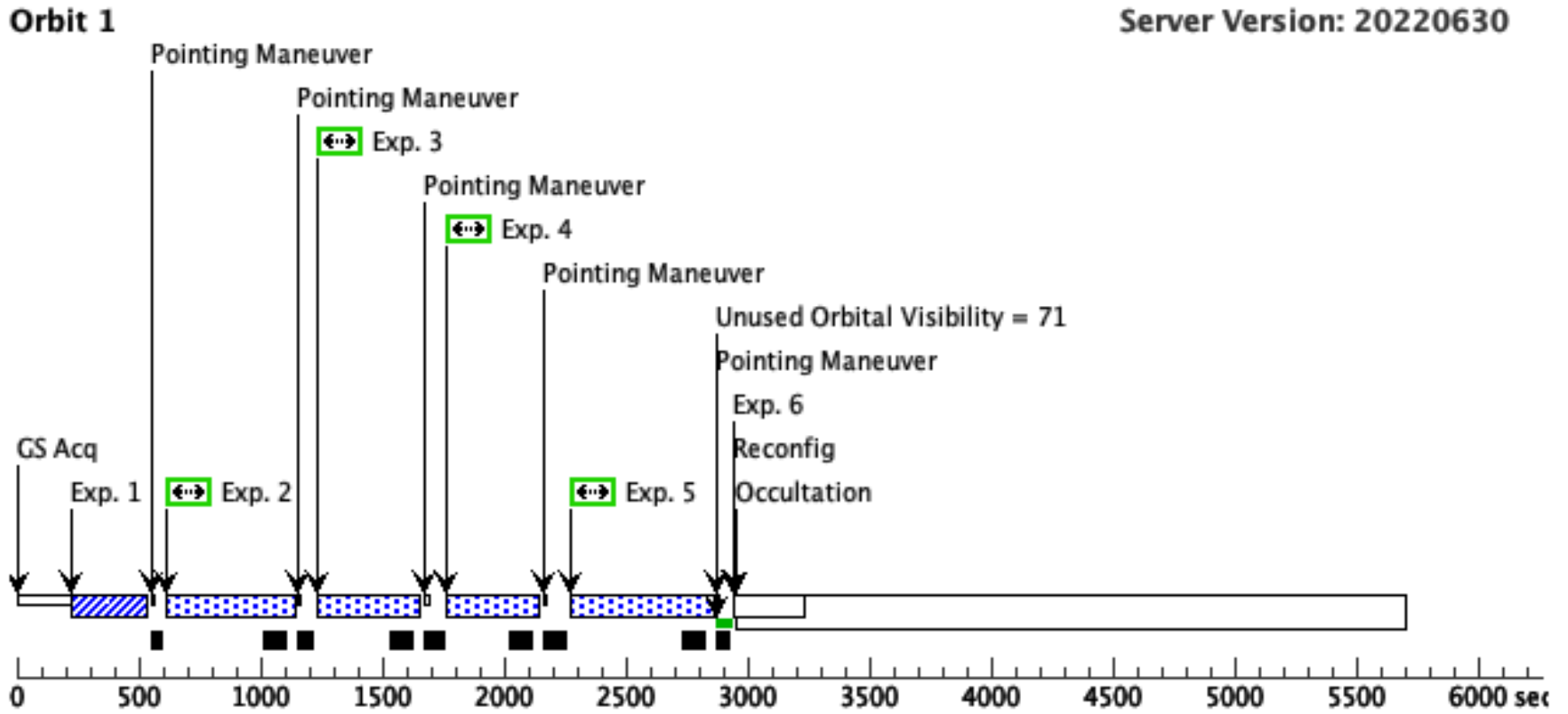
Proposal 17249 - WD0308-FEB (3A) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

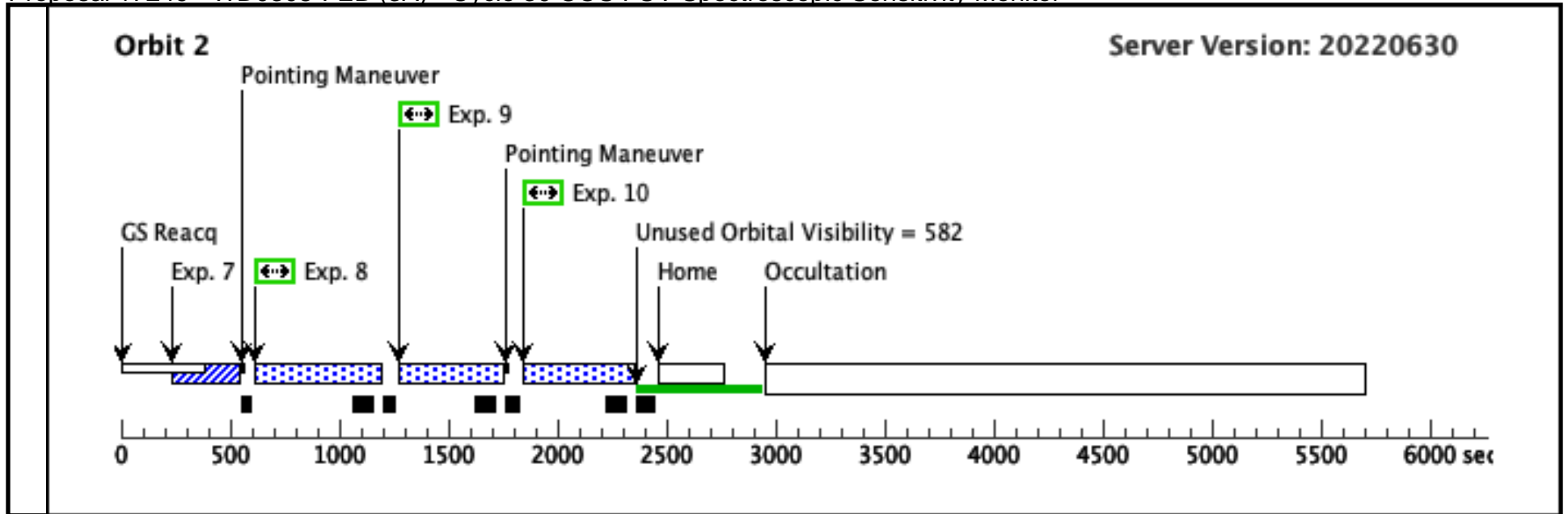
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following 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.182 0354)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=26 1; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			371 Secs (371 Secs) [==>]	[1]	
<i>Comments: Cycle 30 comment: exposure time updated following FLUXTAB update. ETC buffer time is 520 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 17249 - WD0308-FEB (3A) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

8	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]
<p>Comments: ETC buffer time is 350 sec. Set buffer time = exptime - 110 sec</p>							
9	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) [==>]	[2]
<p>Comments: ETC buffer time is 358 sec. Set buffer time = exptime - 110 sec</p>							
10	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) [==>]	[2]
<p>Comments: ETC buffer time is 324 sec. set buffer time = exptime - 110 sec</p>							

Orbit Structure





Proposal 17249 - WD0308-FEB (3B) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:00:59 GMT 2023

Visit	<p>Proposal 17249, WD0308-FEB (3B), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 03-FEB-2023:00:00:00 AND 24-FEB-2023:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).</i></p> <p>1611 & 1623 LP4</p>																
	<p>Diagnosics</p> <p>(WD0308-FEB (3B)) 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												

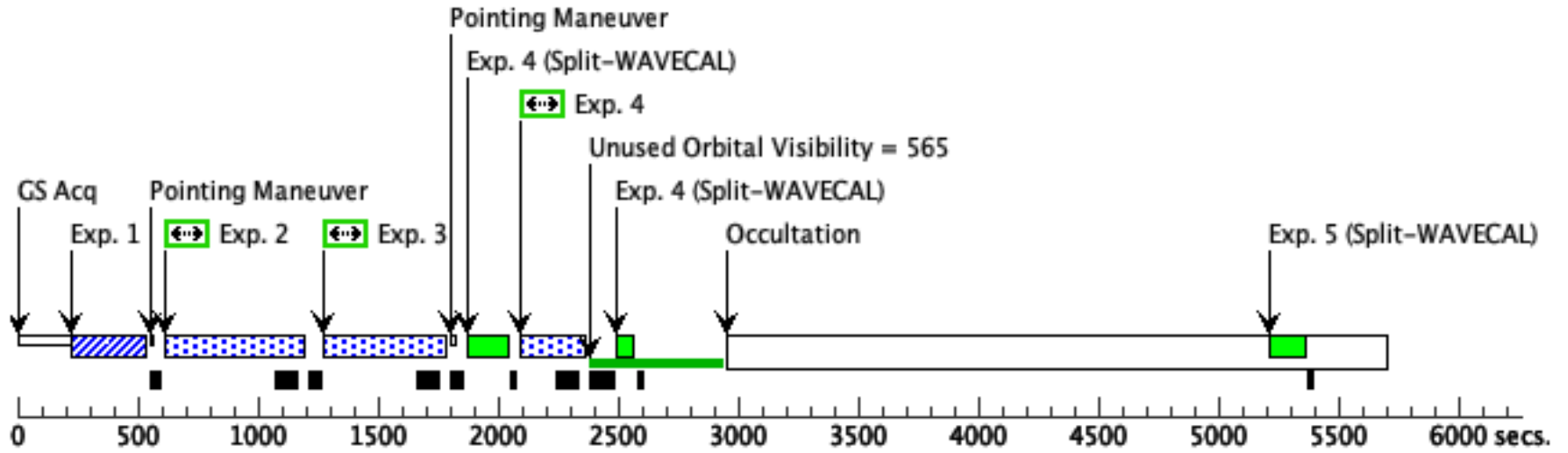
Proposal 17249 - WD0308-FEB (3B) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

#	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	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) [==>]	[1]
	<i>Comments: ETC buffer time is 755 sec. Set buffer time = exptime - 110 sec</i>									
	3	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) [==>]	[1]
	<i>Comments: ETC buffer time is 814 sec. Set buffer time = exptime - 110 sec</i>									
4	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>										
5	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) [==>]	[2]	
<i>Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec</i>										
6	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) [==>]	[2]	
<i>Comments: ETC buffer time is 755 sec. Set buffer time = exptime - 110 sec</i>										

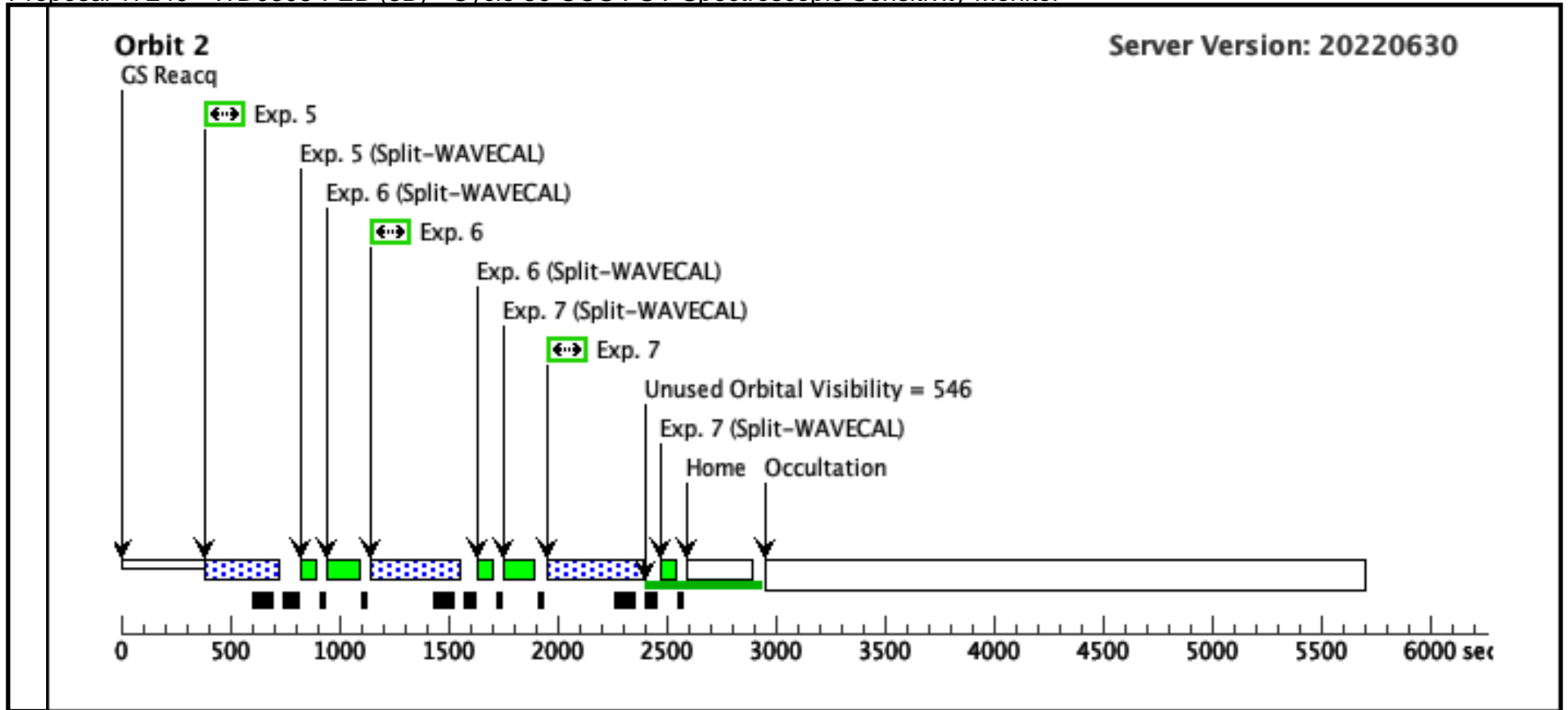
Proposal 17249 - WD0308-FEB (3B) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

7	G160M/162 (1) WD0308-565 3/B/LP6 (COS.sp.154 0050)	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]
<p>Comments: ETC buffer time is 814 sec. Set buffer time = exptime - 110 sec</p>						

Orbit 1



Orbit Structure



Proposal 17249 - GD71-FEB (04) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:00:59 GMT 2023

Visit	<p>Proposal 17249, GD71-FEB (04), failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 10-FEB-2023:00:00:00 AND 24-FEB-2023:00:00:00</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>1611 & 1623 LP4</i></p>																	
Diagnostics	<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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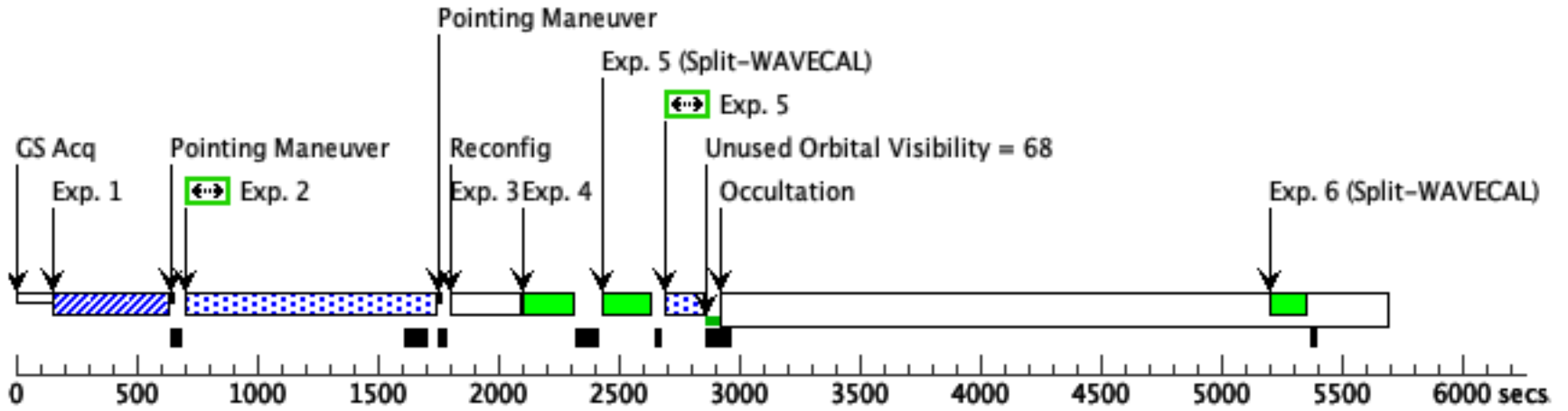
Proposal 17249 - GD71-FEB (04) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

#	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.182 0351)	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=71 9; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			829 Secs (829 Secs) [==>]	[1]	
	<i>Comments: Cycle 30 comment: exposure time updated following FLUXTAB update.</i>									
	<i>FUVB only (all ETC warnings come from FUVA). The FUVB count rate is 549 cts/sec, so the buffer time is 2.35E6/566 = 4280 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: 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: 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>										

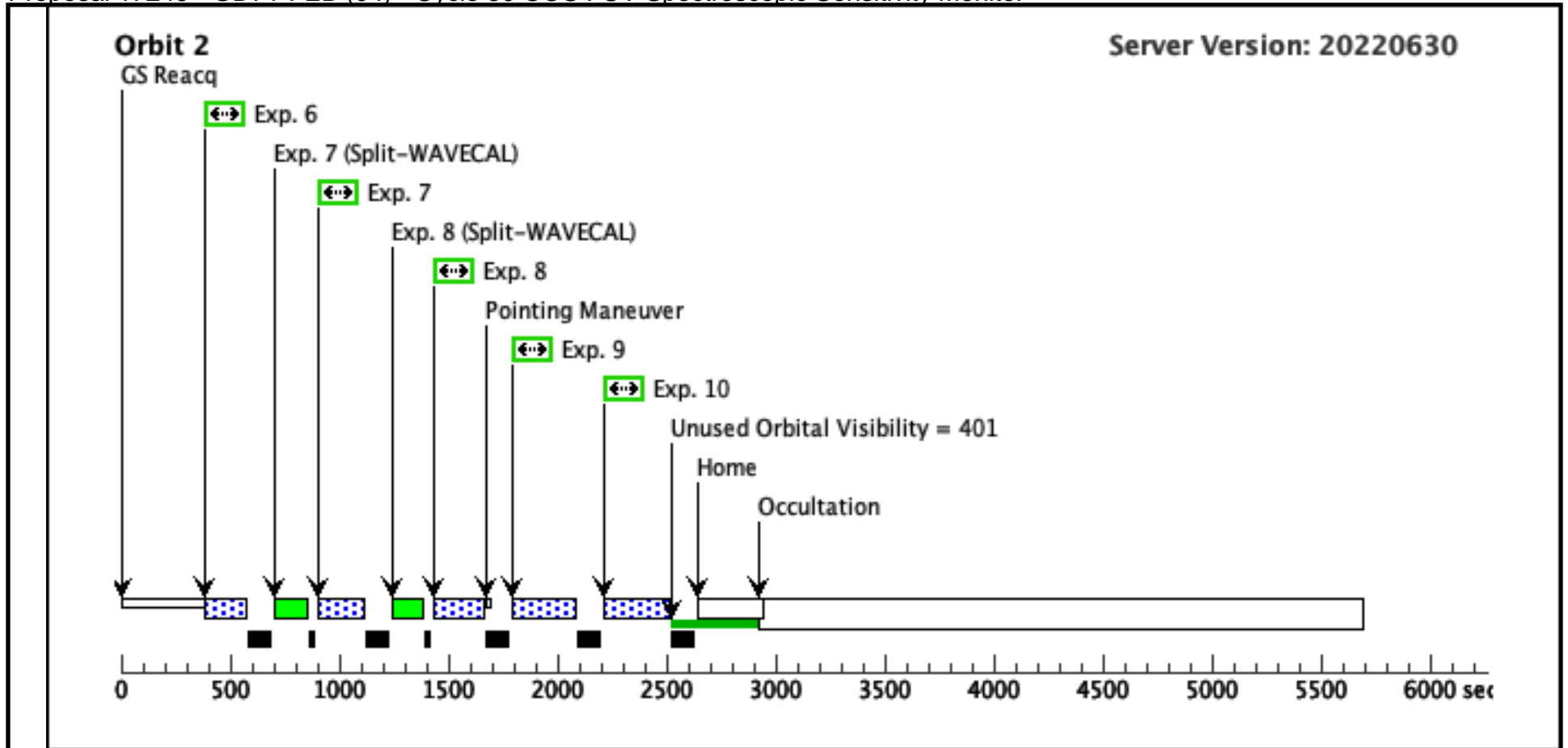
Proposal 17249 - GD71-FEB (04) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

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]
<i>Comments: See Visit 02 comments.</i>						
9	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>						
10	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]
<i>Comments: See Visit 02 comments.</i>						

Orbit 1



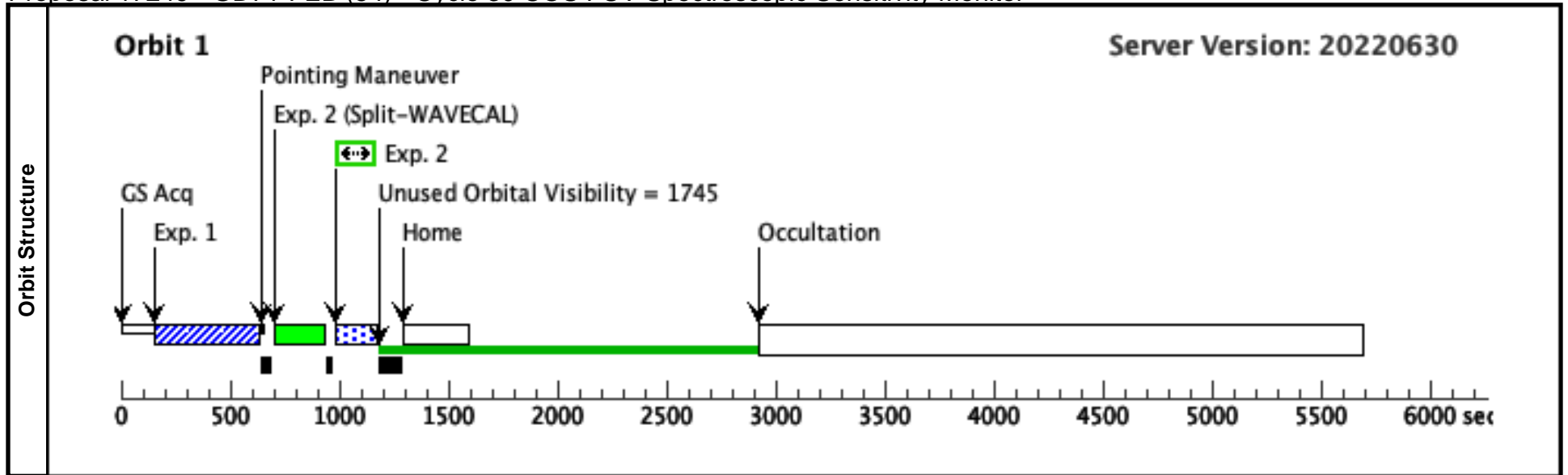
Orbit Structure



Proposal 17249 - GD71-FEB (54) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:00:59 GMT 2023

Visit	<p>Proposal 17249, GD71-FEB (54), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 10-FEB-2023:00:00:00 AND 24-MAR-2023:00:00:00</p> <p><i>Comments: Repeat of failed visit 04 G160M/1577/Lp6 exposure.</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 (54)) 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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#	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	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) [==>]	[1]																																														
<i>Comments: See Visit 02 comments.</i>																																																							
Exposures																																																							



Proposal 17249 - WD0308-APR (5A) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:00:59 GMT 2023

Visit	<p>Proposal 17249, WD0308-APR (5A), failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 10-APR-2023:00:00:00 AND 24-APR-2023:00:00:00</p>																
	<p>(WD0308-APR (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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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>																	

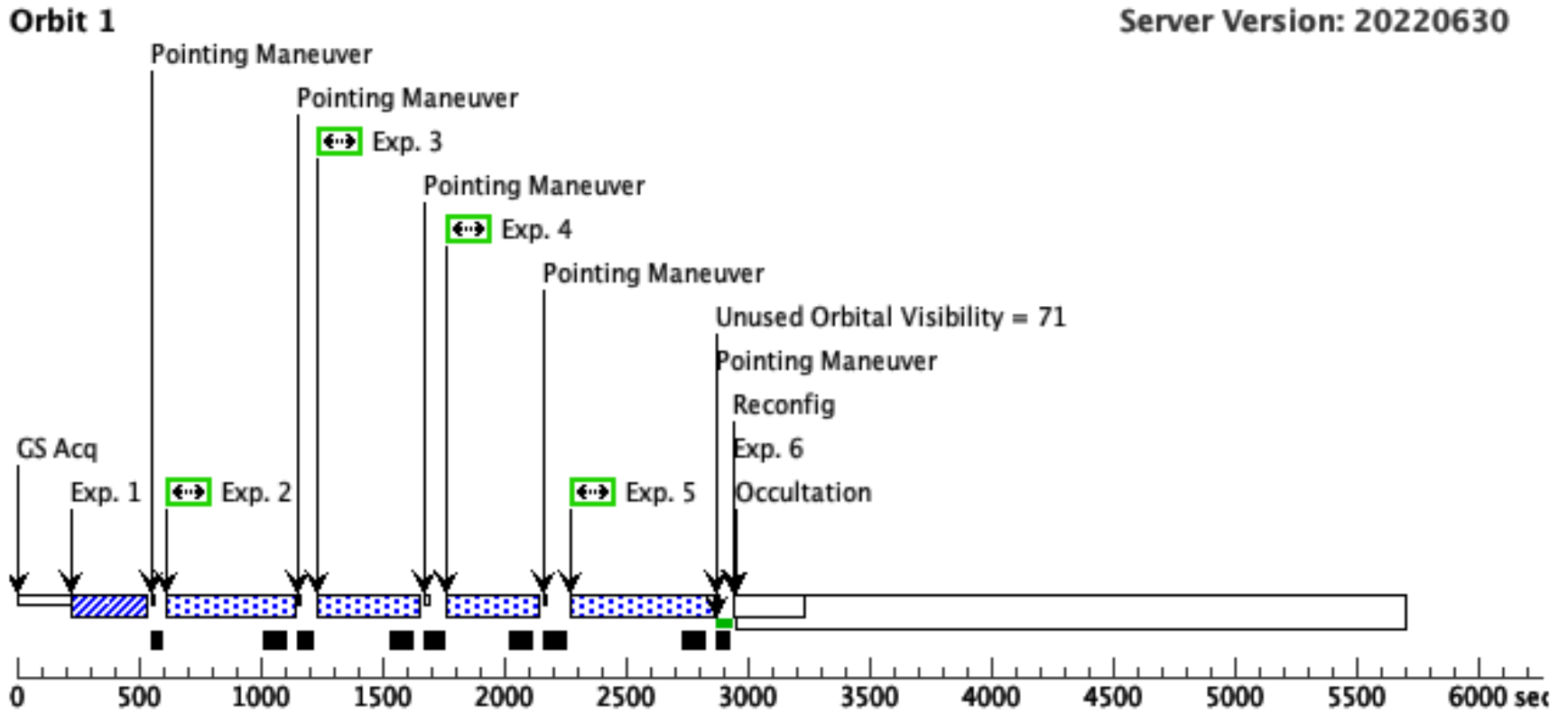
Proposal 17249 - WD0308-APR (5A) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

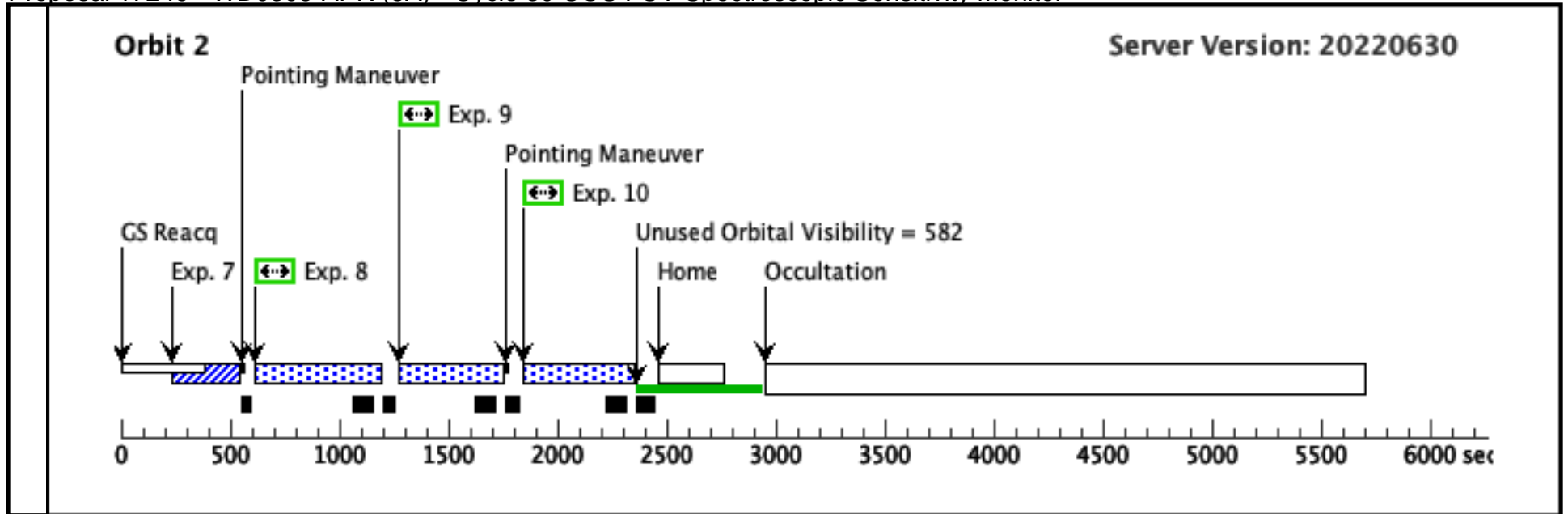
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following 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.182 0354)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=26 1; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			371 Secs (371 Secs) [==>]	[1]	
<i>Comments: Cycle 30 comment: exposure time updated following FLUXTAB update. ETC buffer time is 520 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 17249 - WD0308-APR (5A) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

8	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]
<p>Comments: ETC buffer time is 350 sec. Set buffer time = exptime - 110 sec</p>							
9	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) [==>]	[2]
<p>Comments: ETC buffer time is 358 sec. Set buffer time = exptime - 110 sec</p>							
10	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) [==>]	[2]
<p>Comments: ETC buffer time is 324 sec. set buffer time = exptime - 110 sec</p>							

Orbit Structure





Proposal 17249 - WD0308-APR (5C) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:01:00 GMT 2023

Visit	<p>Proposal 17249, WD0308-APR (5C), scheduled</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%</p> <p><i>Comments: This is a copy of the failed visit 5A.</i></p>																
Diagnostics	<p>(WD0308-APR (5C)) 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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#	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												

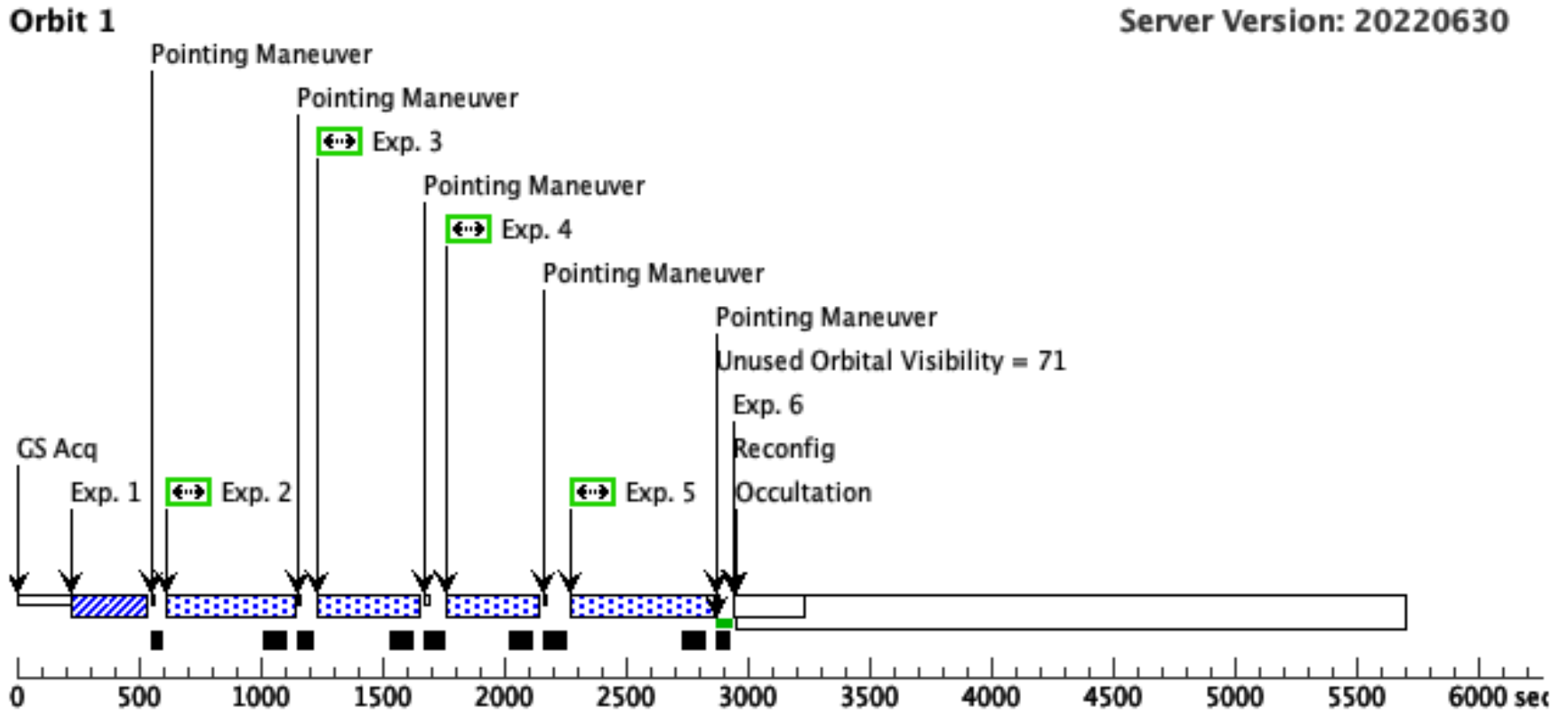
Proposal 17249 - WD0308-APR (5C) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

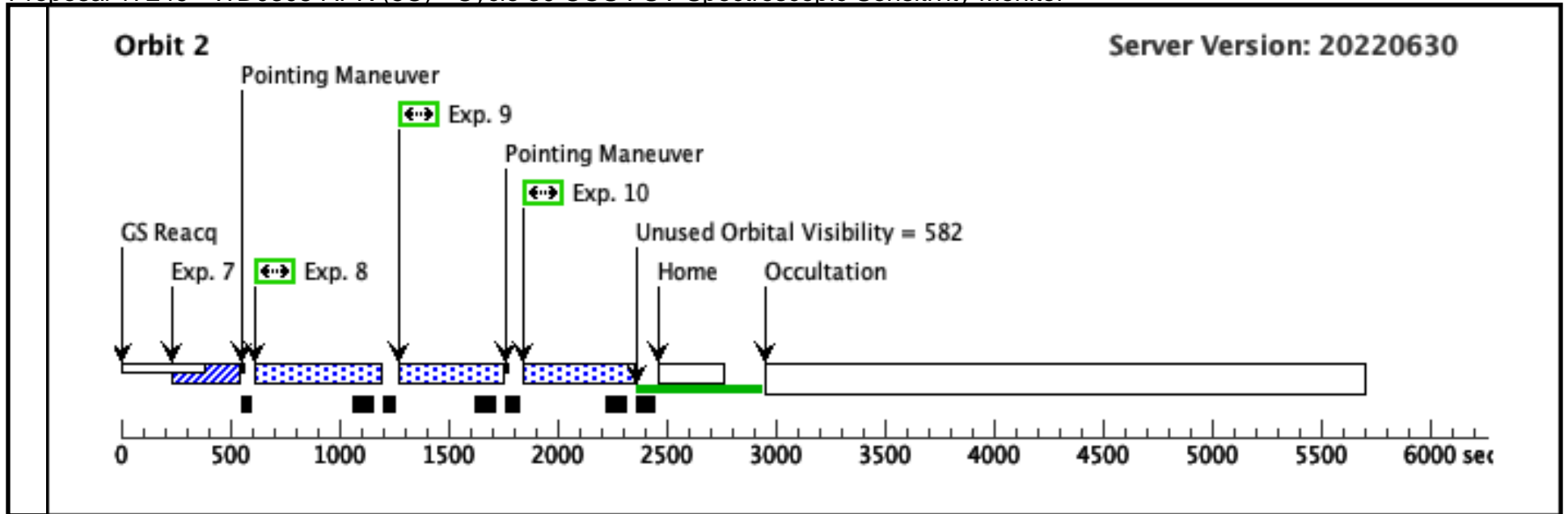
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following 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.182 0354)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=26 1; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			371 Secs (371 Secs) [==>]	[1]	
<i>Comments: Cycle 30 comment: exposure time updated following FLUXTAB update. ETC buffer time is 520 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 17249 - WD0308-APR (5C) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

8	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]
<p>Comments: ETC buffer time is 350 sec. Set buffer time = exptime - 110 sec</p>							
9	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) [==>]	[2]
<p>Comments: ETC buffer time is 358 sec. Set buffer time = exptime - 110 sec</p>							
10	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) [==>]	[2]
<p>Comments: ETC buffer time is 324 sec. set buffer time = exptime - 110 sec</p>							

Orbit Structure





Proposal 17249 - WD0308-APR (5B) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:01:00 GMT 2023

Visit	<p>Proposal 17249, WD0308-APR (5B), failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 10-APR-2023:00:00:00 AND 24-APR-2023:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = BOTH. Using "SEGMENT=BOTH" instead of "SEGMENT=B" for both LP4 and LP6 observations for the G160M settings to support a Cycle 30 GO program which needs both segments monitored at LP4 and LP6. (FUVA is also observed for G160M using GD71 in visit 06).</i></p> <p><i>1533 & 1577 LP4</i></p>																
	<p>Diagnosics</p> <p>(WD0308-APR (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><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												

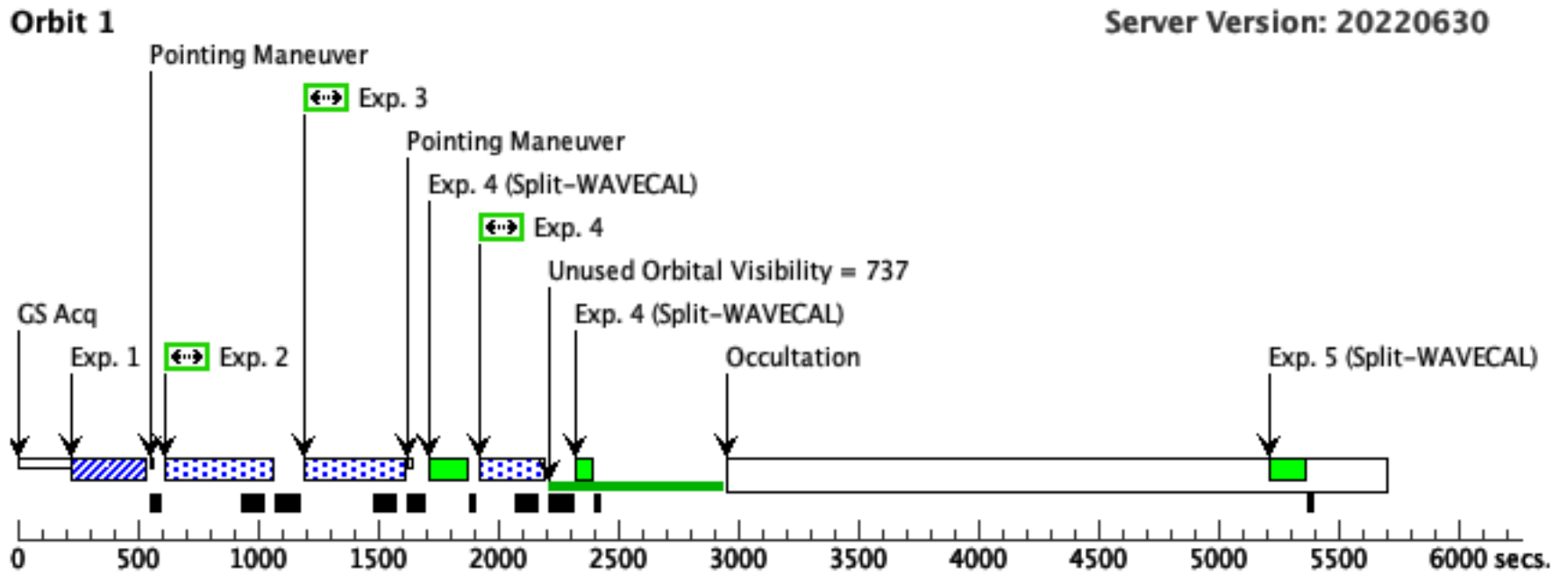
Proposal 17249 - WD0308-APR (5B) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

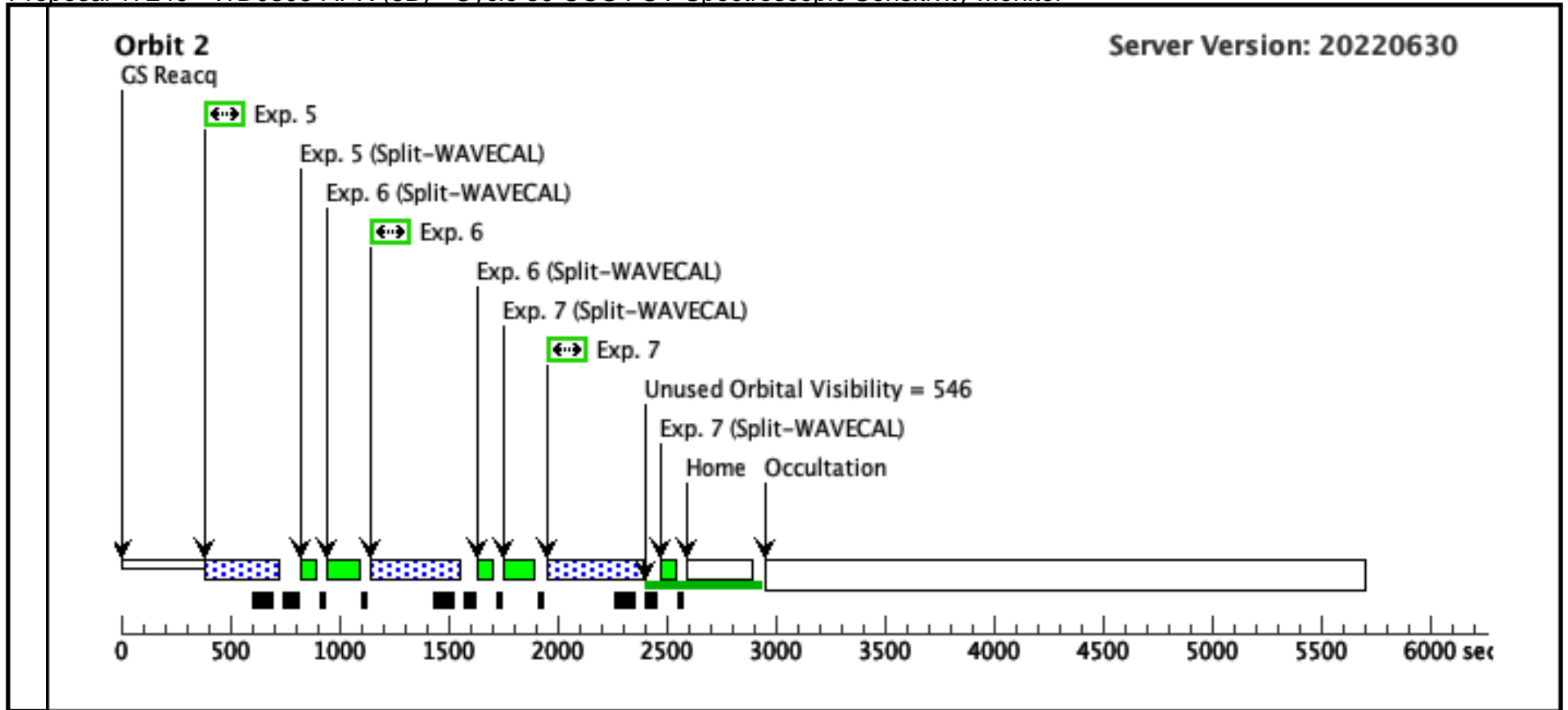
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following 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	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) [==>]	[1]
	<i>Comments: ETC buffer time is 502 sec. Set buffer time = exptime - 110 sec.</i>									
	3	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) [==>]	[1]
	<i>Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec.</i>									
4	G160M/153 3/BOTH/LP 6 (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) [==>]	[1]	
<i>Comments: ETC buffer time is 502 sec. Set buffer time = exptime - 110 sec.</i>										
5	G160M/157 7/BOTH/LP 6 (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) [==>]	[2]	
<i>Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec.</i>										
6	G160M/161 1/BOTH/LP 6 (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) [==>]	[2]	
<i>Comments: ETC buffer time is 755 sec. Set buffer time = exptime - 110 sec.</i>										

Proposal 17249 - WD0308-APR (5B) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

7	G160M/162 (1) WD0308-565 3/BOTH/LP 6 (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) [==>]	[2]
<p>Comments: ETC buffer time is 814 sec. Set buffer time = exptime - 110 sec</p>						

Orbit Structure





Proposal 17249 - WD0308-APR (5D) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:01:00 GMT 2023

Visit	<p>Proposal 17249, WD0308-APR (5D), scheduled</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%</p> <p><i>Comments: This is a reobservation of the failed visit 5B.</i></p> <p><i>G160M/1611 and 1623 observations are with SEGMENT = BOTH. Using "SEGMENT=BOTH" instead of "SEGMENT=B" for both LP4 and LP6 observations for the G160M settings to support a Cycle 30 GO program which needs both segments monitored at LP4 and LP6. (FUVa is also observed for G160M using GD71 in visit 06). FUVB only for 1533 and 1577 since FUVa covered with high S/N for WD0803-565 in visit 56.</i></p> <p><i>1533 & 1577 LP4</i></p>																
	<p>Diagnosics</p> <p>(WD0308-APR (5D)) 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												

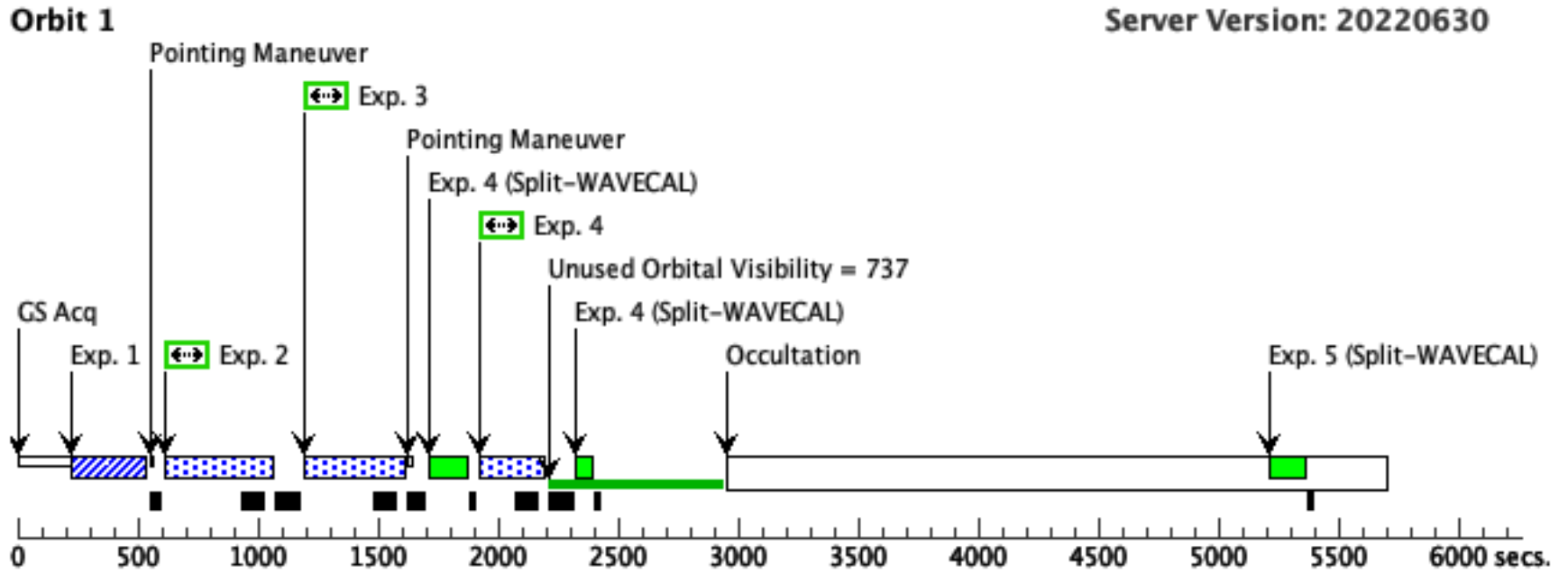
Proposal 17249 - WD0308-APR (5D) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

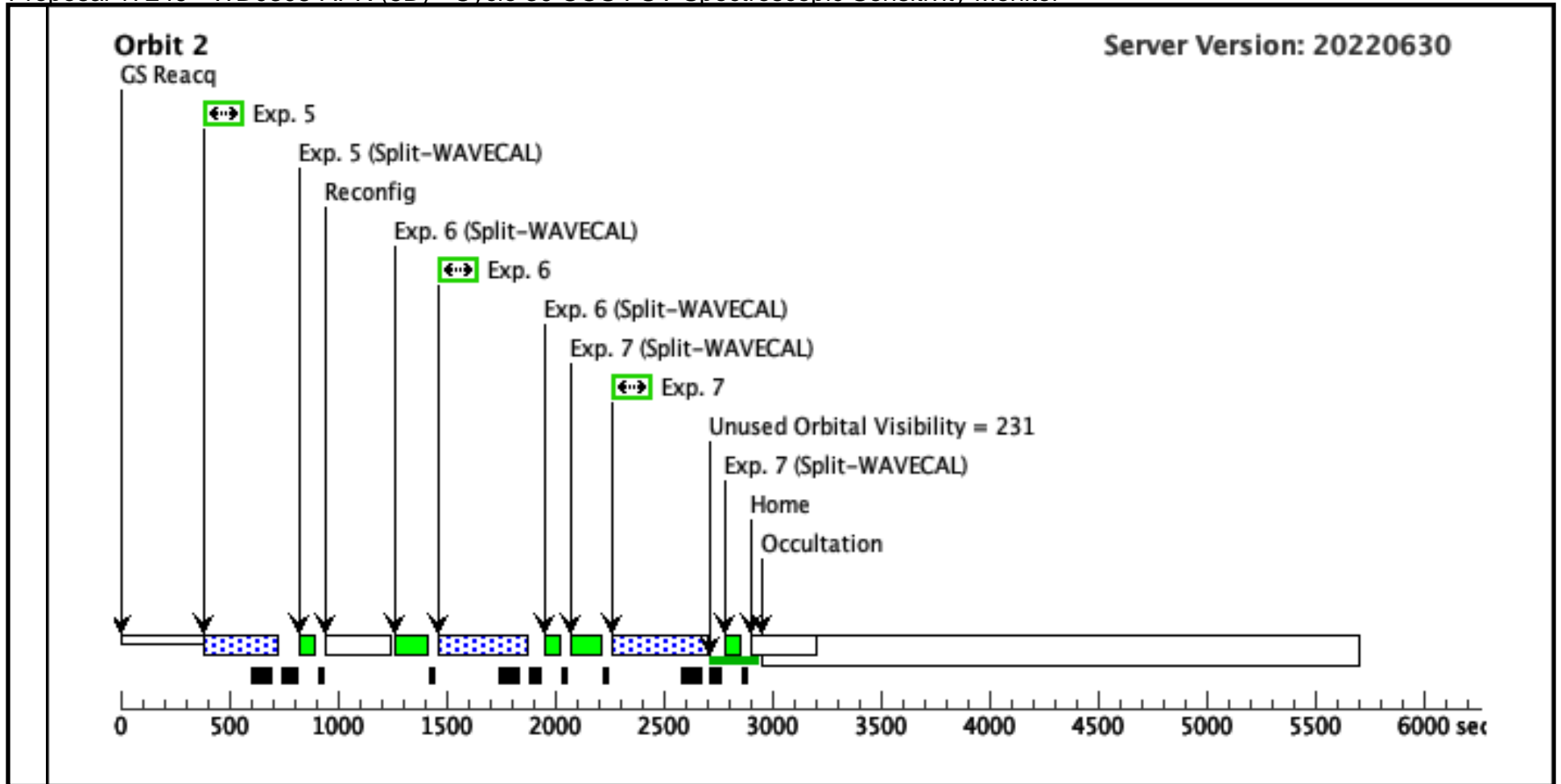
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following 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	G160M/153 3/FUVB/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=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/FUVB/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=B			291 Secs (291 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec.</i>									
4	G160M/153 3/FUVB/LP 6 (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>										
5	G160M/157 7/FUVB/LP 6 (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) [==>]	[2]	
<i>Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec.</i>										
6	G160M/161 1/BOTH/LP 6 (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) [==>]	[2]	
<i>Comments: ETC buffer time is 755 sec. Set buffer time = exptime - 110 sec.</i>										

Proposal 17249 - WD0308-APR (5D) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

7	G160M/162 (1) WD0308-565 3/BOTH/LP 6 (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) [==>]	[2]
<p>Comments: ETC buffer time is 814 sec. Set buffer time = exptime - 110 sec</p>						

Orbit Structure





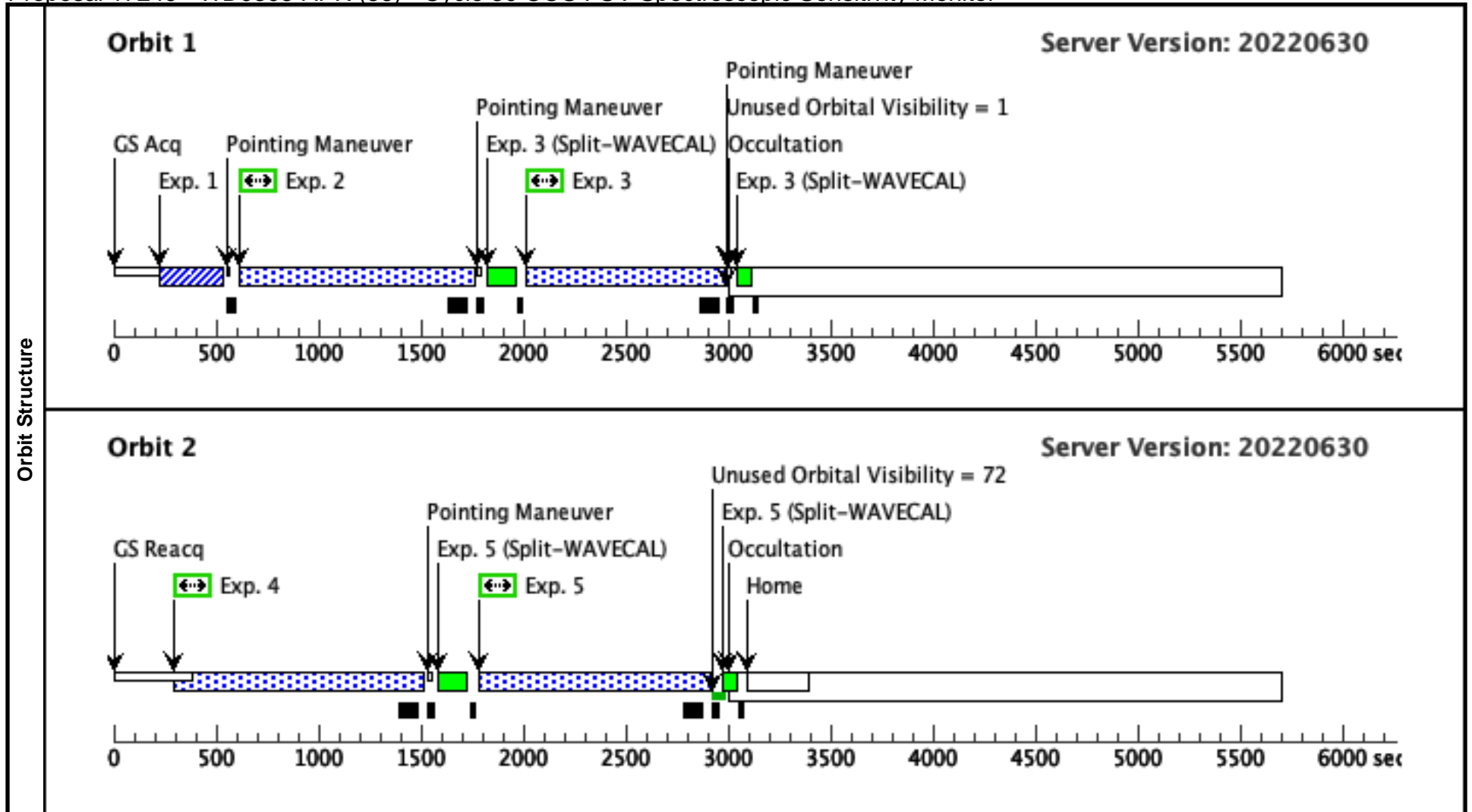
Proposal 17249 - WD0308-APR (56) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:01:00 GMT 2023

Visit	<p>Proposal 17249, WD0308-APR (56), scheduled</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 90%</p> <p><i>Comments: This is a resobservation of the failed visit 06. GD71 is no longer visible so target switched to WD0803-565. G160M/1611 and 1623 FUV monitoring is covered in visit 5B. G130M/1096 is not observable within a reasonable exposure time. G160M/1533 and 1577 are observed for the LP4-LP6 connection visit to achieve S/N=15 at the wavelength of least sensitivity on FUV. FUVB is switched off to save the detector lifetime.</i></p>																	
	<p>Diagnosics</p> <p>(WD0308-APR (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>(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 17249 - WD0308-APR (56) - Cycle 30 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/FUVA/LP 4 (COS.sp.184 4330)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=81 0; LIFETIME-POS=L P4; SEGMENT=A				920 Secs (920 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is 519 sec. Set buffer time = exptime - 110 sec.</i>										
	3	G160M/153 3/FUVA/LP 6 (COS.sp.184 4330)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=81 0; LIFETIME-POS=L P6; SEGMENT=A				920 Secs (920 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is 519 sec. Set buffer time = exptime - 110 sec.</i>										
	4	G160M/157 7/FUVA/LP 4 (COS.sp.184 4331)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=97 2; LIFETIME-POS=L P4; SEGMENT=A				1082 Secs (1082 Secs) [==>]	[2]
	<i>Comments: ETC buffer time is 657 sec. Set buffer time = exptime - 110 sec.</i>										
	5	G160M/157 7/FUVA/LP 6 (COS.sp.184 4331)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=97 2; LIFETIME-POS=L P6; SEGMENT=A				1082 Secs (1082 Secs) [==>]	[2]
<i>Comments: ETC buffer time is 657 sec. Set buffer time = exptime - 110 sec.</i>											



Proposal 17249 - GD71-APR (06) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:01:00 GMT 2023

Visit	<p>Proposal 17249, GD71-APR (06), failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 10-APR-2023:00:00:00 AND 24-APR-2023:00:00:00</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>1533 & 1577 LP4</i></p>																	
Diagnostics	<p>(GD71-APR (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></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													

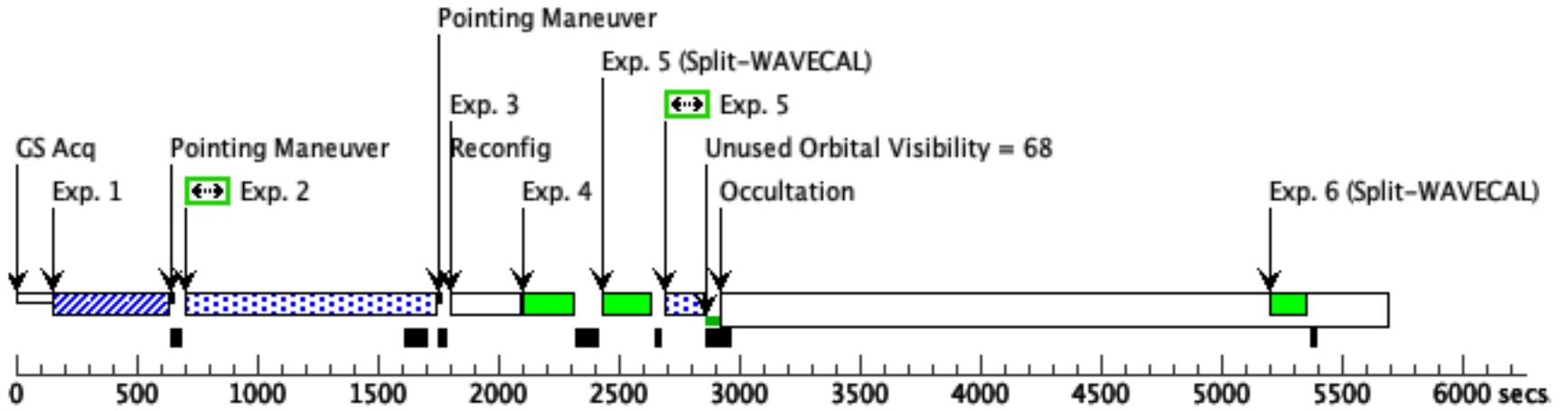
Proposal 17249 - GD71-APR (06) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

#	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.182 0351)	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=71 9; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			829 Secs (829 Secs) [==>]	[1]	
	<i>Comments: Cycle 30 comment: exposure time updated following FLUXTAB update.</i>									
	<i>FUVB only (all ETC warnings come from FUVA). The FUVB count rate is 549 cts/sec, so the buffer time is 2.35E6/566 = 4280 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). The FUVA count rate is 9240 cts/sec, so the buffer time is 2.35E6/9240 = 254 sec. Set buffer-time = exptime</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). The FUVA count rate is 6674 cts/sec, so the buffer time is 2.35E6/6674 = 352 sec. Set buffer-time = exptime</i>										

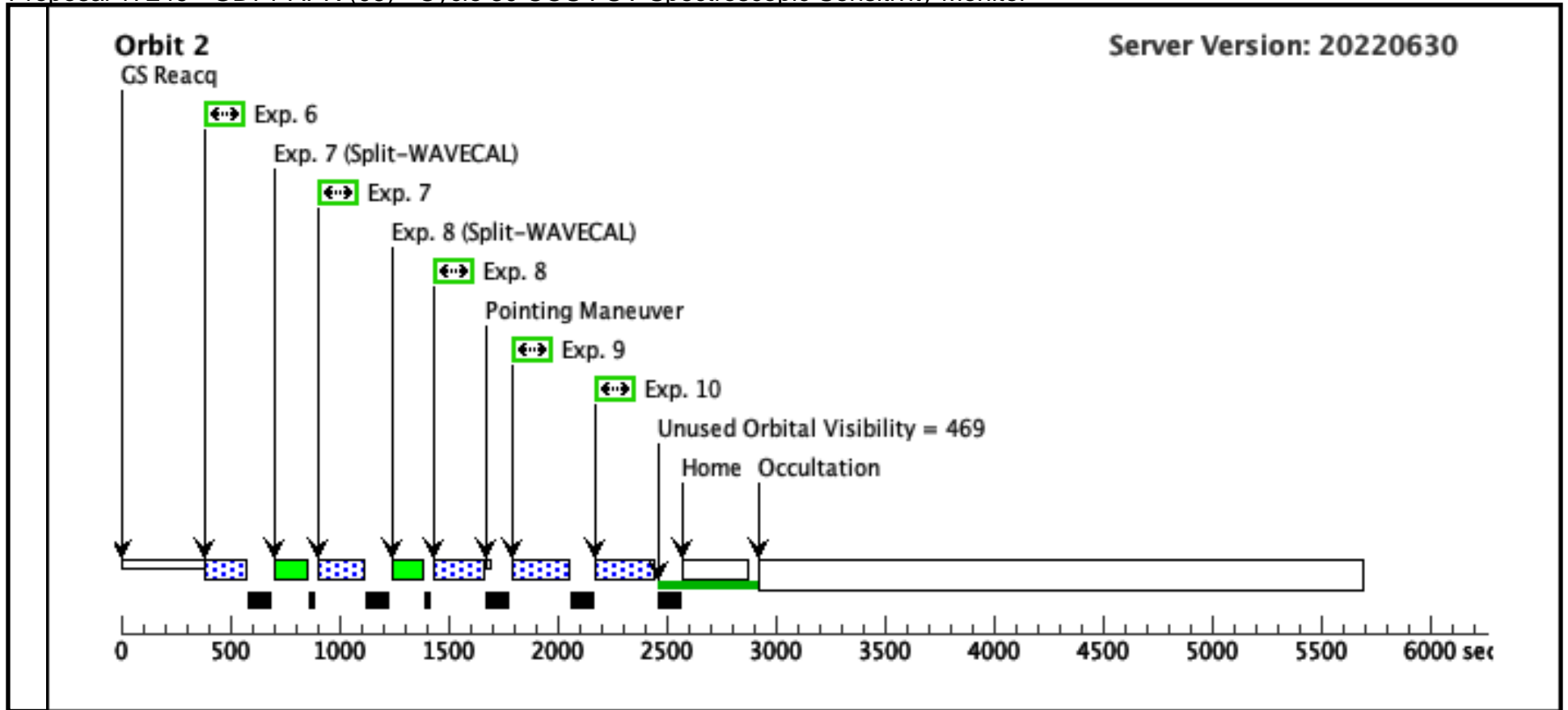
Proposal 17249 - GD71-APR (06) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

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]
<p>Comments: FUV only (all ETC warnings come from FUVB). The FUV count rate is 5172 cts/sec, so the buffer time is $2.35E6/5172 = 454$ sec. Set buffer-time = exptime</p>							
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: FUV only (all ETC warnings come from FUVB). The FUV count rate is 5095 cts/sec, so the buffer time is $2.35E6/5095 = 461$ sec. Set buffer-time = exptime</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: FUV only (all ETC warnings come from FUVB). The FUV count rate is 9240 cts/sec, so the buffer time is $2.35E6/9240 = 254$ sec. Set buffer-time = exptime</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: FUV only (all ETC warnings come from FUVB). The FUV count rate is 6674 cts/sec, so the buffer time is $2.35E6/6674 = 352$ sec. Set buffer-time = exptime</p>							

Orbit 1



Orbit Structure



Proposal 17249 - WD0308-JUN (7A) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:01:00 GMT 2023

Visit	<p>Proposal 17249, WD0308-JUN (7A), scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 04-JUN-2023:00:00:00 AND 30-JUN-2023:00:00:00</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 (7A)) 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													

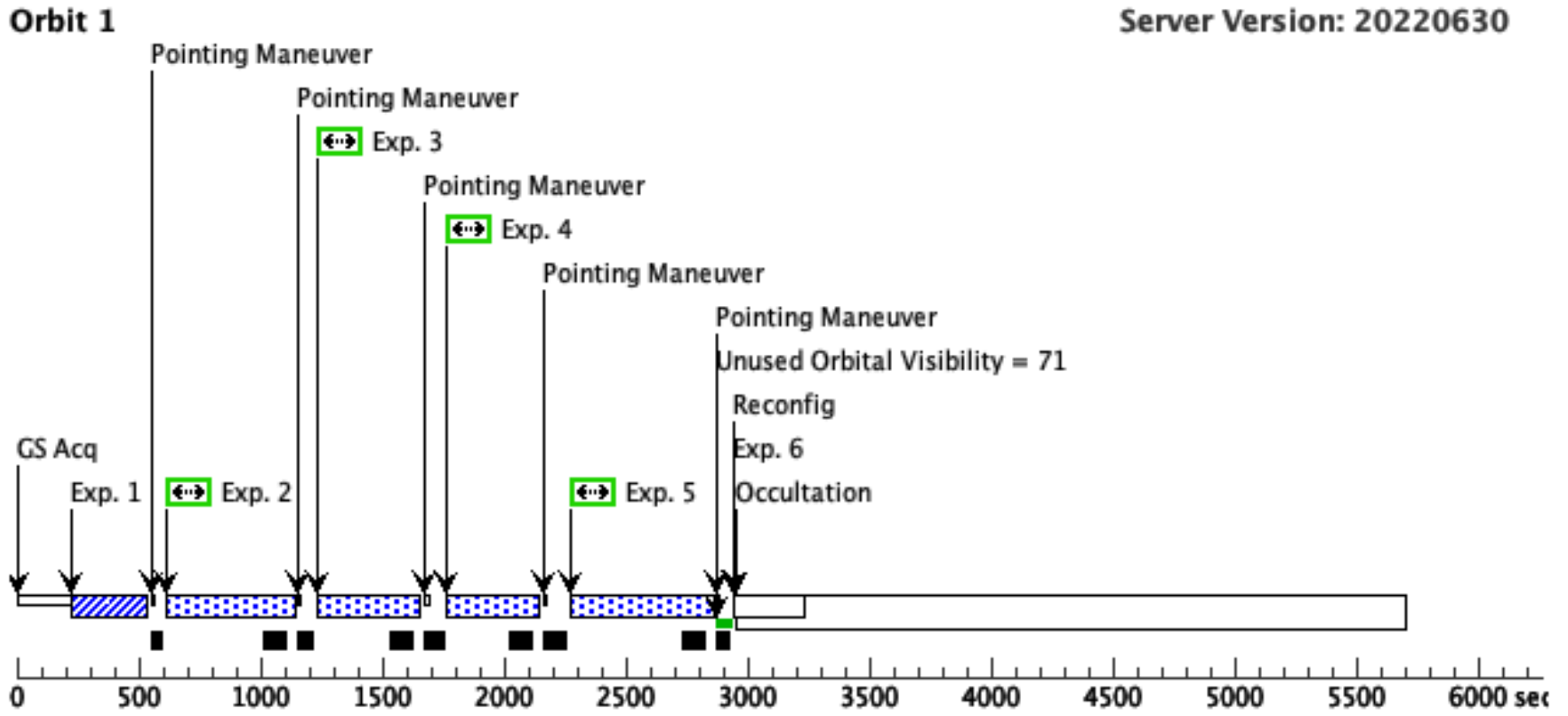
Proposal 17249 - WD0308-JUN (7A) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

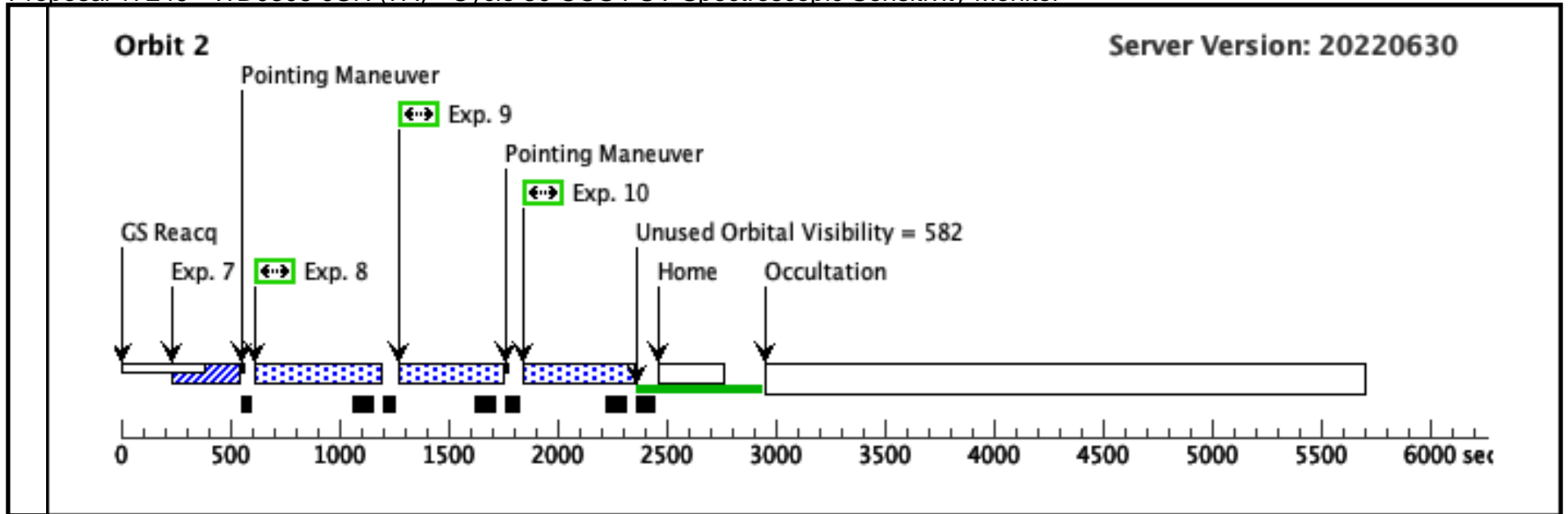
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following 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.182 0354)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=26 1; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			371 Secs (371 Secs) [==>]	[1]	
<i>Comments: Cycle 30 comment: exposure time updated following FLUXTAB update. ETC buffer time is 520 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 17249 - WD0308-JUN (7A) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

8	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]
<p>Comments: ETC buffer time is 350 sec. Set buffer time = exptime - 110 sec</p>							
9	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) [==>]	[2]
<p>Comments: ETC buffer time is 358 sec. Set buffer time = exptime - 110 sec</p>							
10	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) [==>]	[2]
<p>Comments: ETC buffer time is 324 sec. set buffer time = exptime - 110 sec</p>							

Orbit Structure





Proposal 17249 - WD0308-JUN (7B) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:01:00 GMT 2023

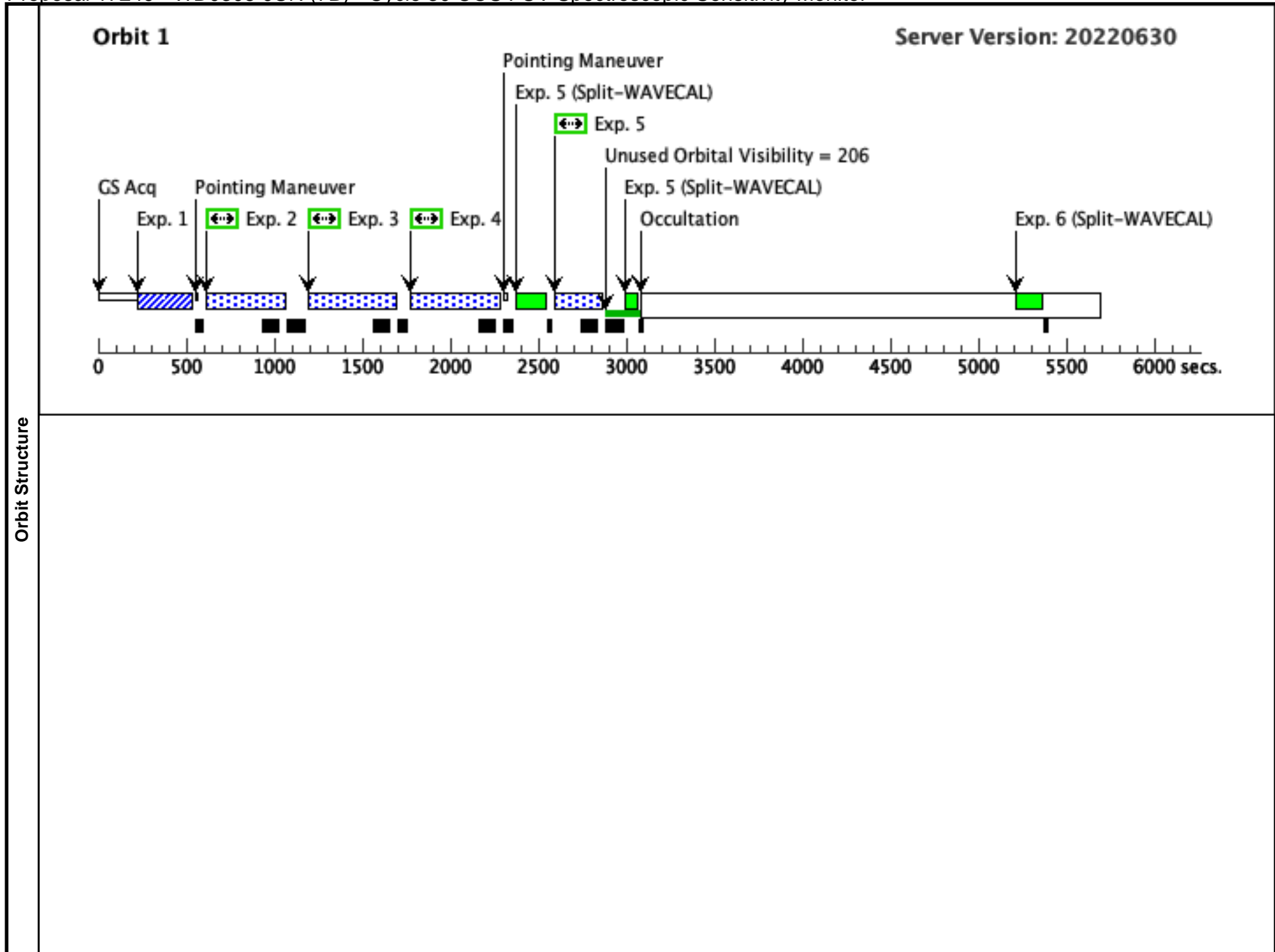
Visit	<p>Proposal 17249, WD0308-JUN (7B), scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 80%; BETWEEN 04-JUN-2023:00:00:00 AND 30-JUN-2023:00:00:00</p> <p><i>Comments: (All G160M observations are with SEGMENT = B (i.e. segment 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.)</i></p> <p>1533 & 1577 & 1611 & 1623</p>																
	<p>Diagnosics</p> <p>(WD0308-JUN (7B)) 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 17249 - WD0308-JUN (7B) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

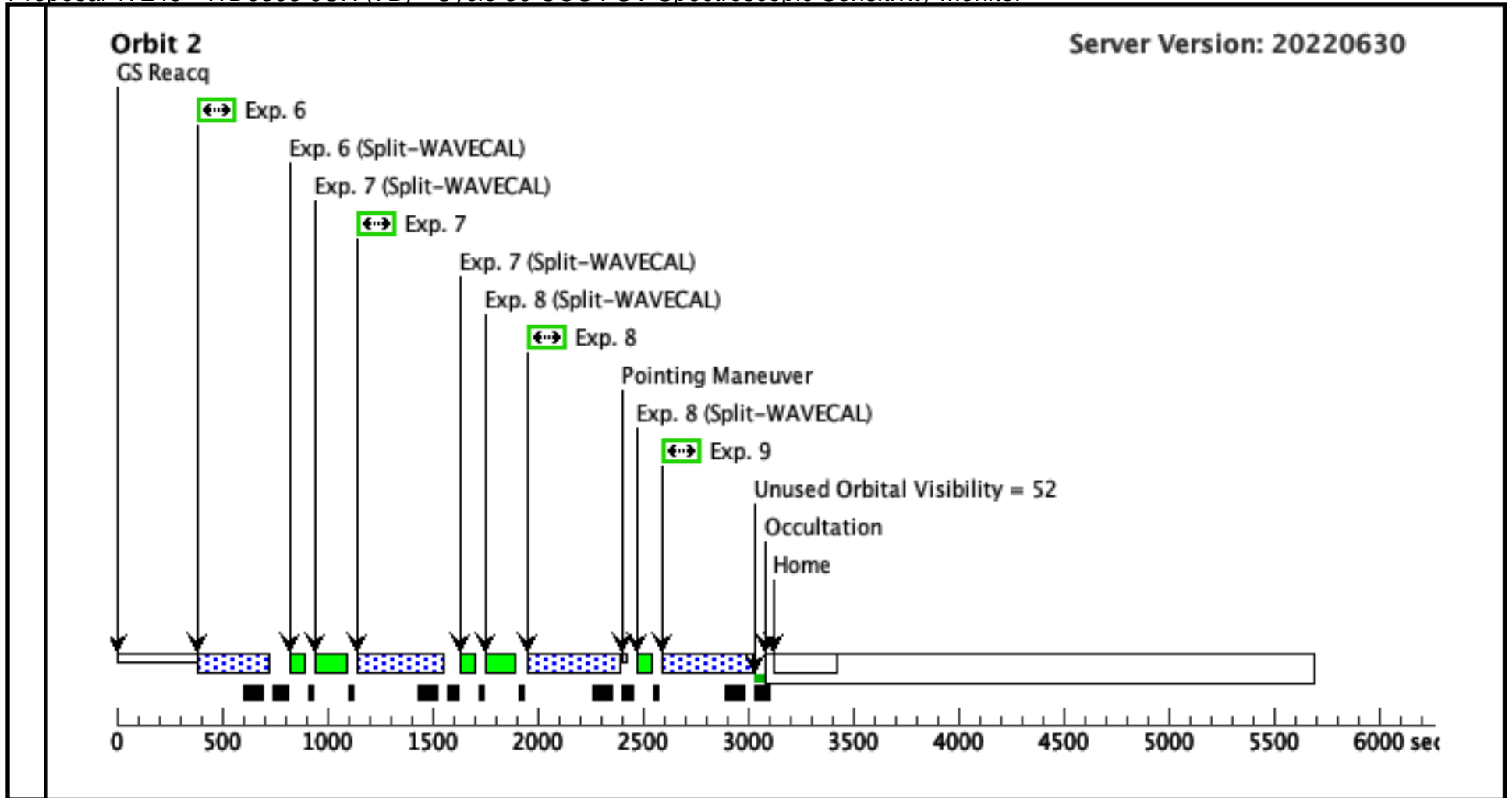
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following 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	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) [==>]	[1]
	<i>Comments: ETC buffer time is 502 sec. Set buffer time = exptime - 110 sec.</i>									
	3	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) [==>]	[1]
	<i>Comments: ETC buffer time is 755 sec. Set buffer time = exptime - 110 sec.</i>									
4	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) [==>]	[1]	
<i>Comments: ETC buffer time is 814 sec. Set buffer time = exptime - 110 sec.</i>										
5	G160M/153 3/BOTH/LP 6 (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) [==>]	[1]	
<i>Comments: ETC buffer time is 502 sec. Set buffer time = exptime - 110 sec.</i>										
6	G160M/157 7/BOTH/LP 6 (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) [==>]	[2]	
<i>Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec.</i>										

Proposal 17249 - WD0308-JUN (7B) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

7	G160M/161 1/BOTH/LP 6 (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) [==>]	[2]
<p>Comments: ETC buffer time is 755 sec. Set buffer time = exptime - 110 sec</p>							
8	G160M/162 3/BOTH/LP 6 (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=BOTH	388 Secs (388 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 814 sec. Set buffer time = exptime - 110 sec</p>							
9	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>							



Orbit Structure



Proposal 17249 - WD0308-AUG (8A) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:01:00 GMT 2023

Visit	<p>Proposal 17249, WD0308-AUG (8A), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 07-AUG-2023:00:00:00 AND 21-AUG-2023:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).</i></p>																
Diagnostics	<p>(WD0308-AUG (8A)) 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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#	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												

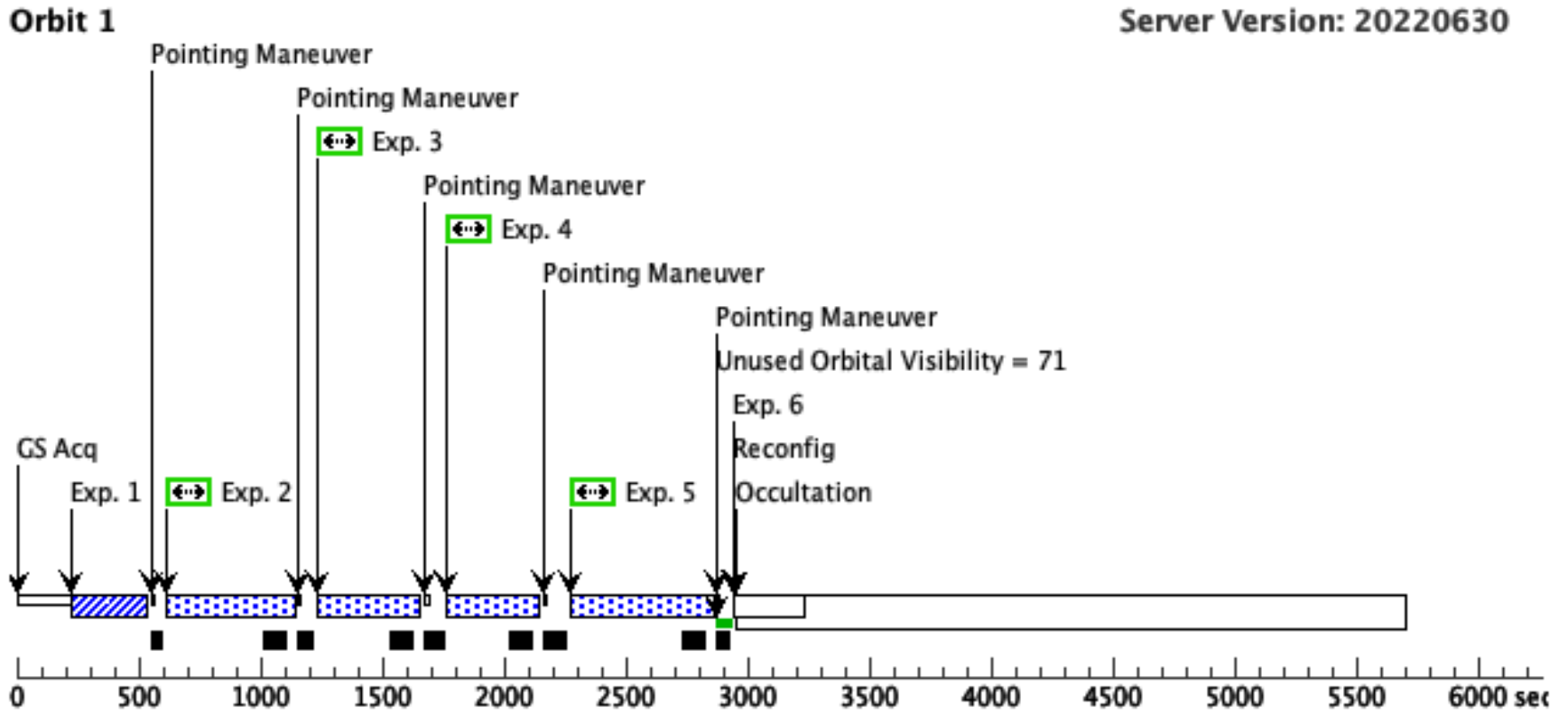
Proposal 17249 - WD0308-AUG (8A) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

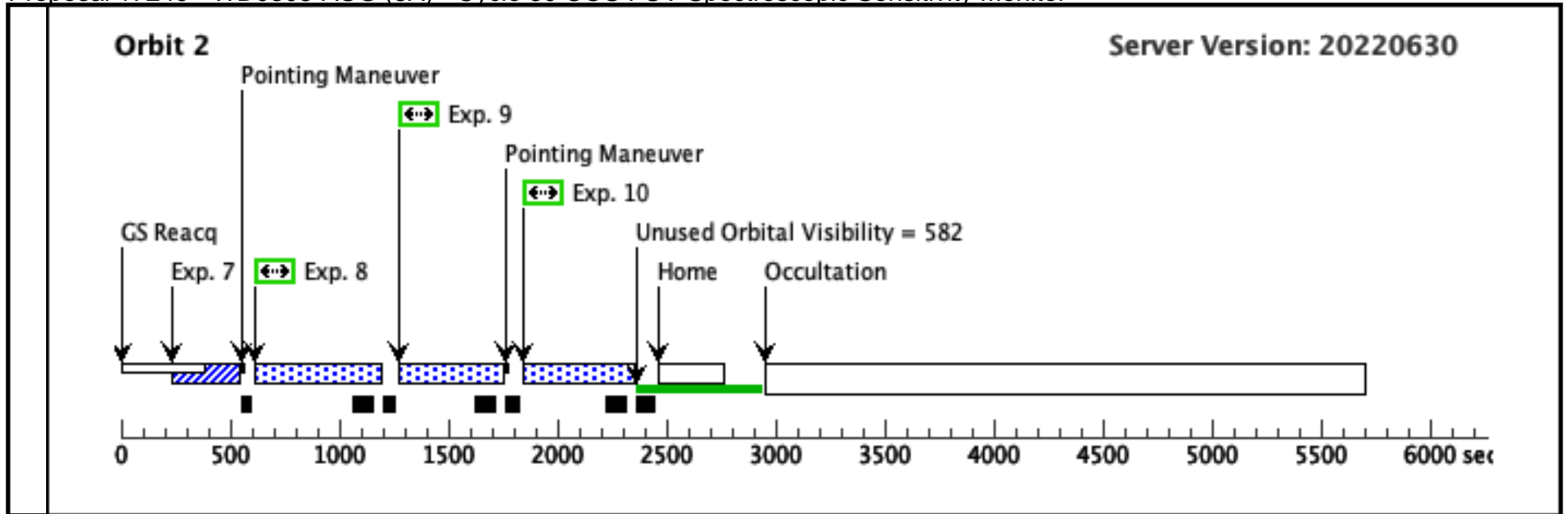
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<p>Comments: cycle 24 comment: exposure times not reduced following 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.</p>									
	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]
	<p>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</p>									
	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]
	<p>Comments: ETC buffer time is 392 sec. Set buffer time = exptime - 110 sec</p>									
	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]
<p>Comments: ETC buffer time is 323 sec. Set buffer time = exptime - 110 sec</p>										
5	G140L/1280 /LP3 (COS.sp.182 0354)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=26 1; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			371 Secs (371 Secs) [==>]	[1]	
<p>Comments: Cycle 30 comment: exposure time updated following FLUXTAB update. ETC buffer time is 520 sec. Set buffer time = exptime - 110 sec</p>										
6		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]	
<p>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</p>										
7	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs) [==>]	[2]	
<p>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.</p>										

Proposal 17249 - WD0308-AUG (8A) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

8	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]
<p>Comments: ETC buffer time is 350 sec. Set buffer time = exptime - 110 sec</p>							
9	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) [==>]	[2]
<p>Comments: ETC buffer time is 358 sec. Set buffer time = exptime - 110 sec</p>							
10	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) [==>]	[2]
<p>Comments: ETC buffer time is 324 sec. set buffer time = exptime - 110 sec</p>							

Orbit Structure





Proposal 17249 - WD0308-AUG (8B) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:01:00 GMT 2023

Visit	<p>Proposal 17249, WD0308-AUG (8B), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 07-AUG-2023:00:00:00 AND 21-AUG-2023:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).</i></p> <p>1611 & 1623 LP4</p>																	
	Diagnostics	<p>(WD0308-AUG (8B)) 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
	#	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													

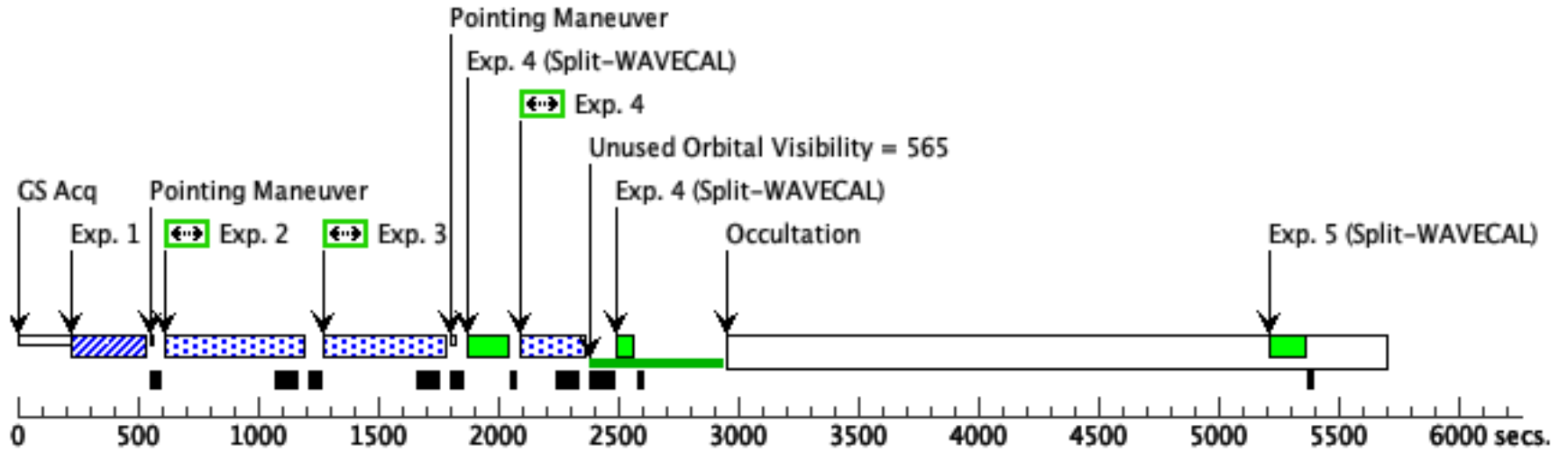
Proposal 17249 - WD0308-AUG (8B) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

#	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	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) [==>]	[1]
	<i>Comments: ETC buffer time is 755 sec. Set buffer time = exptime - 110 sec</i>									
	3	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) [==>]	[1]
	<i>Comments: ETC buffer time is 814 sec. Set buffer time = exptime - 110 sec</i>									
4	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>										
5	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) [==>]	[2]	
<i>Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec</i>										
6	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) [==>]	[2]	
<i>Comments: ETC buffer time is 755 sec. Set buffer time = exptime - 110 sec</i>										

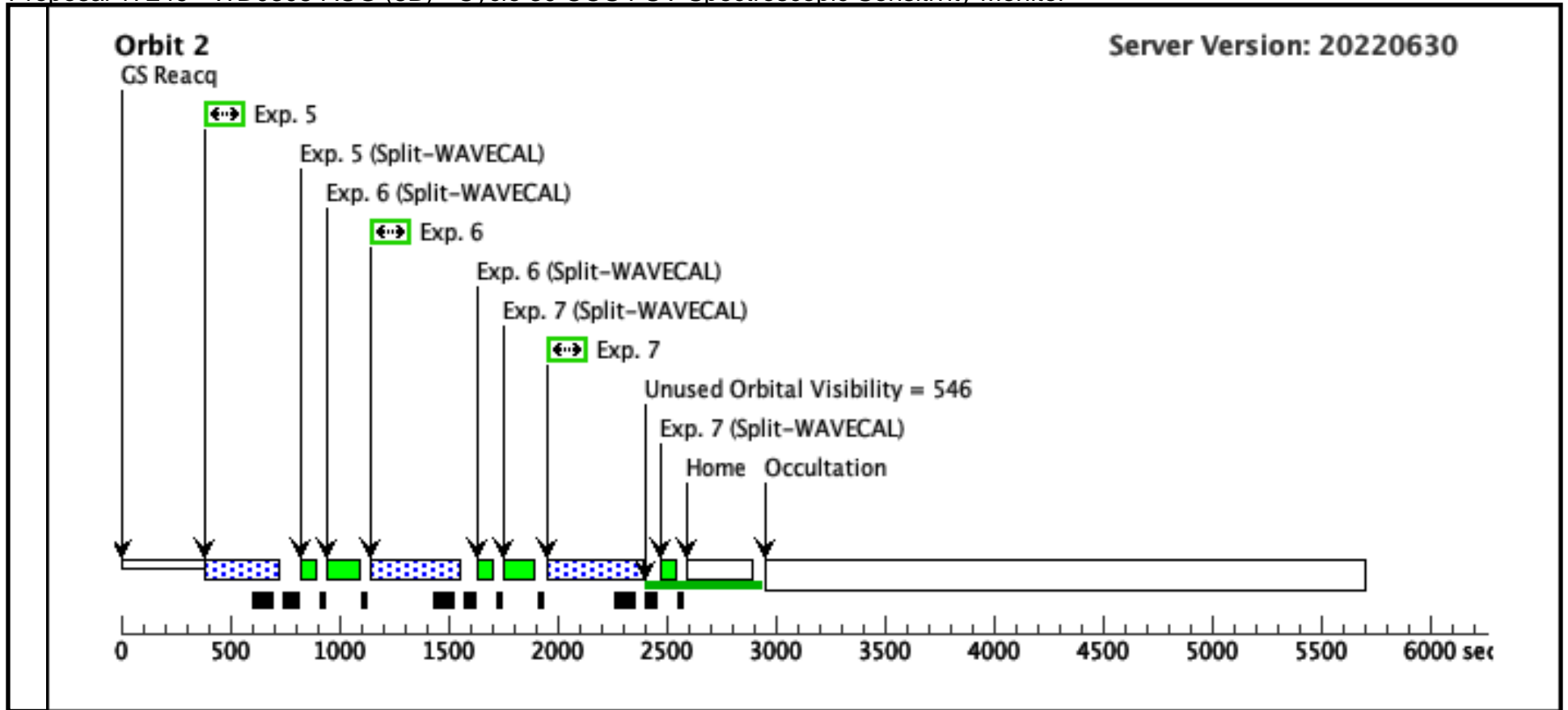
Proposal 17249 - WD0308-AUG (8B) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

7	G160M/162 (1) WD0308-565 3/B/LP6 (COS.sp.154 0050)	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]
<p>Comments: ETC buffer time is 814 sec. Set buffer time = exptime - 110 sec</p>						

Orbit 1



Orbit Structure



Proposal 17249 - GD71-AUG (09) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:01:00 GMT 2023

Visit	<p>Proposal 17249, GD71-AUG (09), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 16-AUG-2023:00:00:00 AND 29-AUG-2023:00:00:00</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>1611 & 1623 LP4</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	<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>						#	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													
<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 17249 - GD71-AUG (09) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

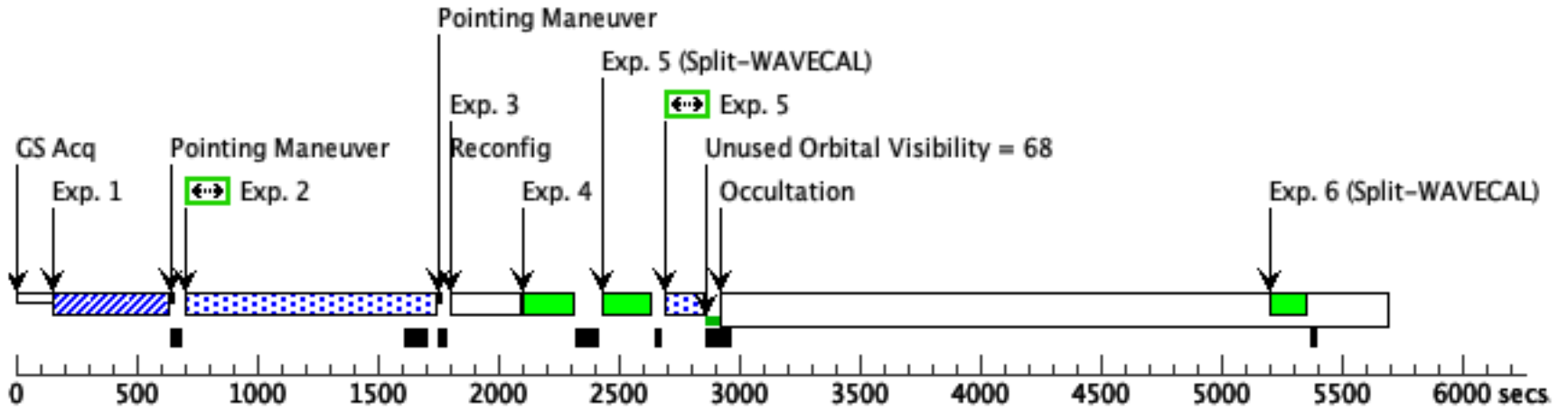
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (2) GD71 (COS.ta.839 574)	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs) [==>]	[1]	
	<i>Comments: See Visit 02 comments.</i>									
	2	G130M/109 (2) GD71 6/FUVB/LP 2 (COS.sp.182 0351)	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=71 9; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			829 Secs (829 Secs) [==>]	[1]	
	<i>Comments: Cycle 30 comment: exposure time updated following FLUXTAB update.</i>									
	<i>FUVB only (all ETC warnings come from FUVA). The FUVB count rate is 549 cts/sec, so the buffer time is 2.35E6/566 = 4280 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 17249 - GD71-AUG (09) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

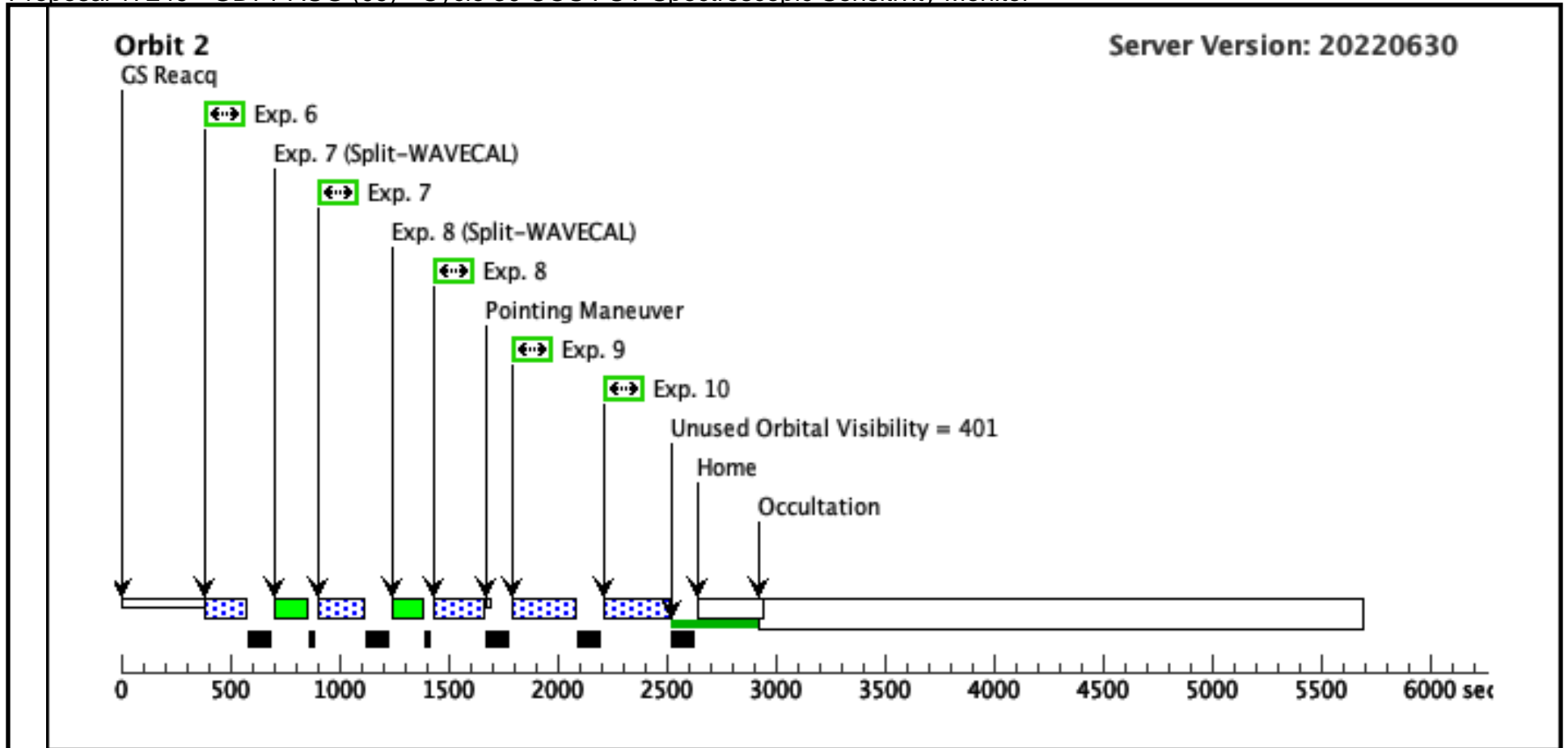
8	G160M/162 (2) GD71 3/FUVA/LP 6 (COS.sp.145 7663)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=17 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6	177 Secs (177 Secs) [==>]	[2]
<p><i>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</i></p>						
9	G160M/161 (2) GD71 1/FUVA/LP 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><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></p>						
10	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><i>Comments: See Visit 02 comments.</i></p>						

Orbit 1

Server Version: 20220630



Orbit Structure



Proposal 17249 - WD0308-OCT (10) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:01:00 GMT 2023

Visit	Proposal 17249, WD0308-OCT (10), implementation Diagnostic Status: Warning Scientific Instruments: S/C, COS/FUV, COS/NUV Special Requirements: SCHED 100%; BETWEEN 06-OCT-2023:00:00:00 AND 26-OCT-2023:00:00:00																
	(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.																
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												
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																	

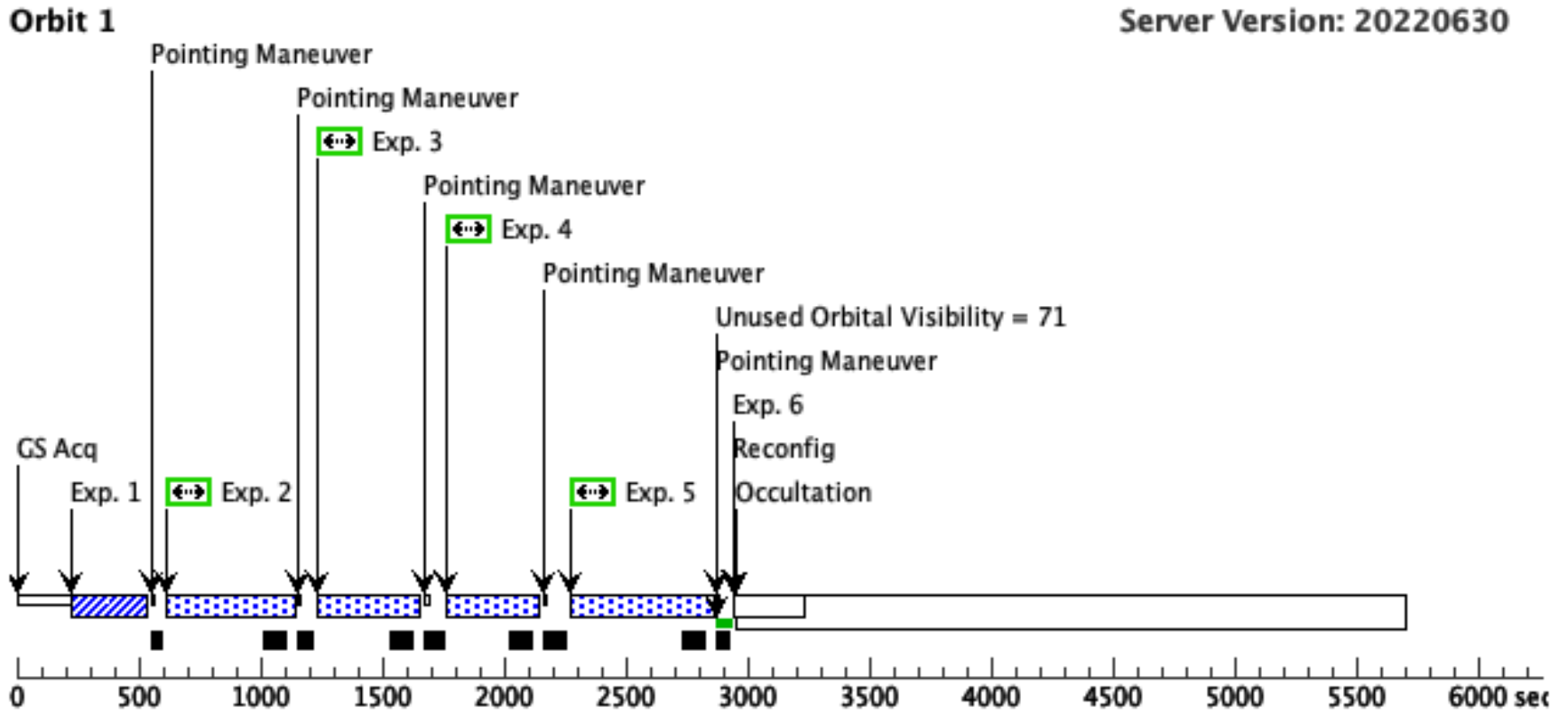
Proposal 17249 - WD0308-OCT (10) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

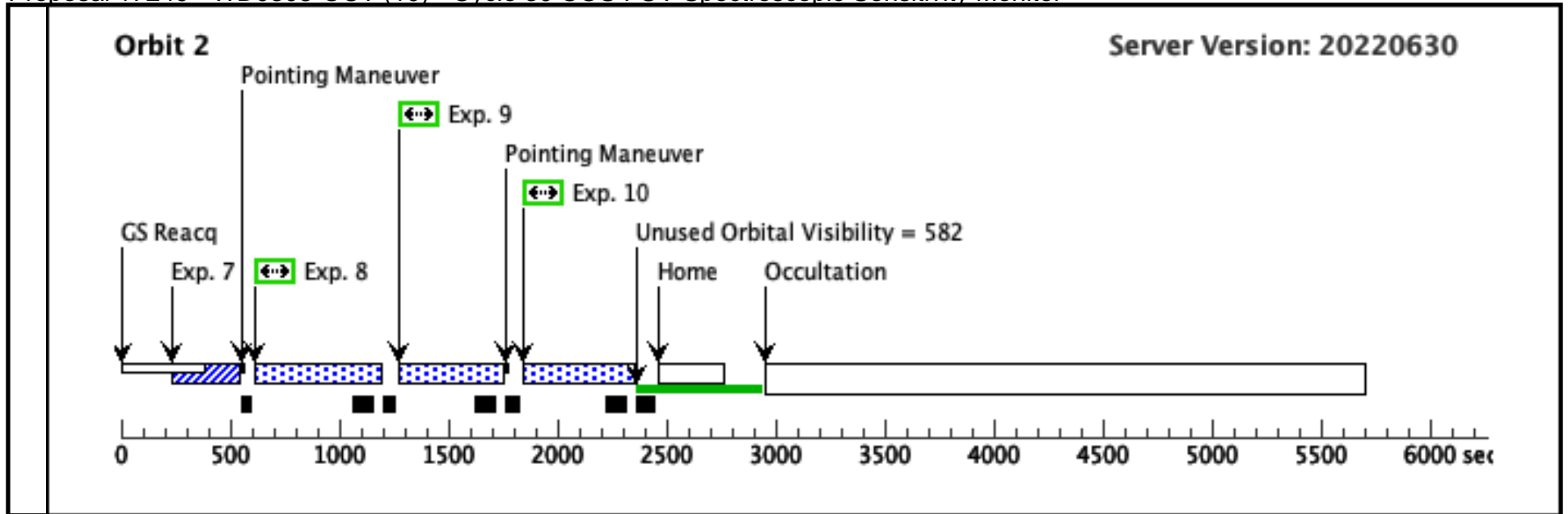
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following 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.182 0354)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=26 1; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			371 Secs (371 Secs) [==>]	[1]	
<i>Comments: Cycle 30 comment: exposure time updated following FLUXTAB update. ETC buffer time is 520 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 17249 - WD0308-OCT (10) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

8	G140L/800/ (1) WD0308-565 FUVA/LP3 (COS.sp.145 7778)	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=25 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	367 Secs (367 Secs)	[==>]	[2]
<p>Comments: ETC buffer time is 350 sec. Set buffer time = exptime - 110 sec</p>							
9	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>							
10	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>							

Orbit Structure





Proposal 17249 - WD0308-OCT (12) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:01:00 GMT 2023

Visit	<p>Proposal 17249, WD0308-OCT (12), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 06-OCT-2023:00:00:00 AND 26-OCT-2023:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = BOTH. Using "SEGMENT=BOTH" instead of "SEGMENT=B" for both LP4 and LP6 observations for the G160M settings to support a Cycle 30 GO program which needs both segments monitored at LP4 and LP6. (FUV is also observed for G160M using GD71 in visit 11).</i></p> <p><i>1533 & 1577 LP4</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
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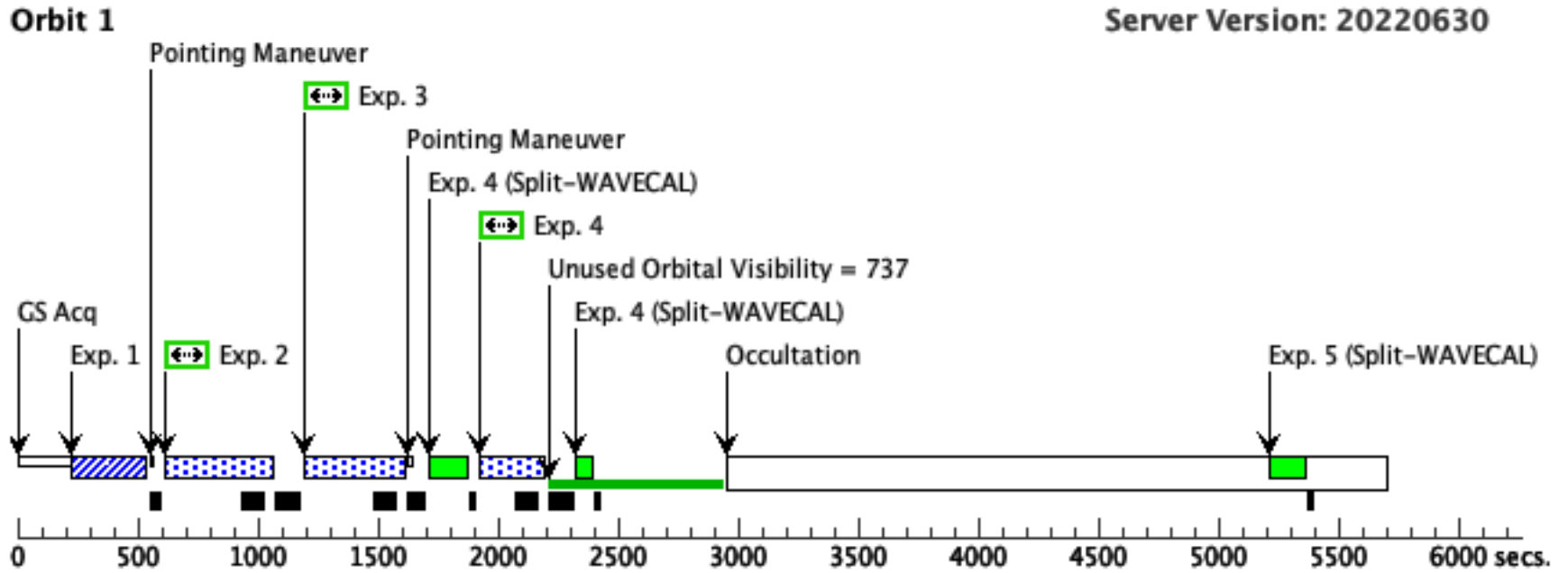
Proposal 17249 - WD0308-OCT (12) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

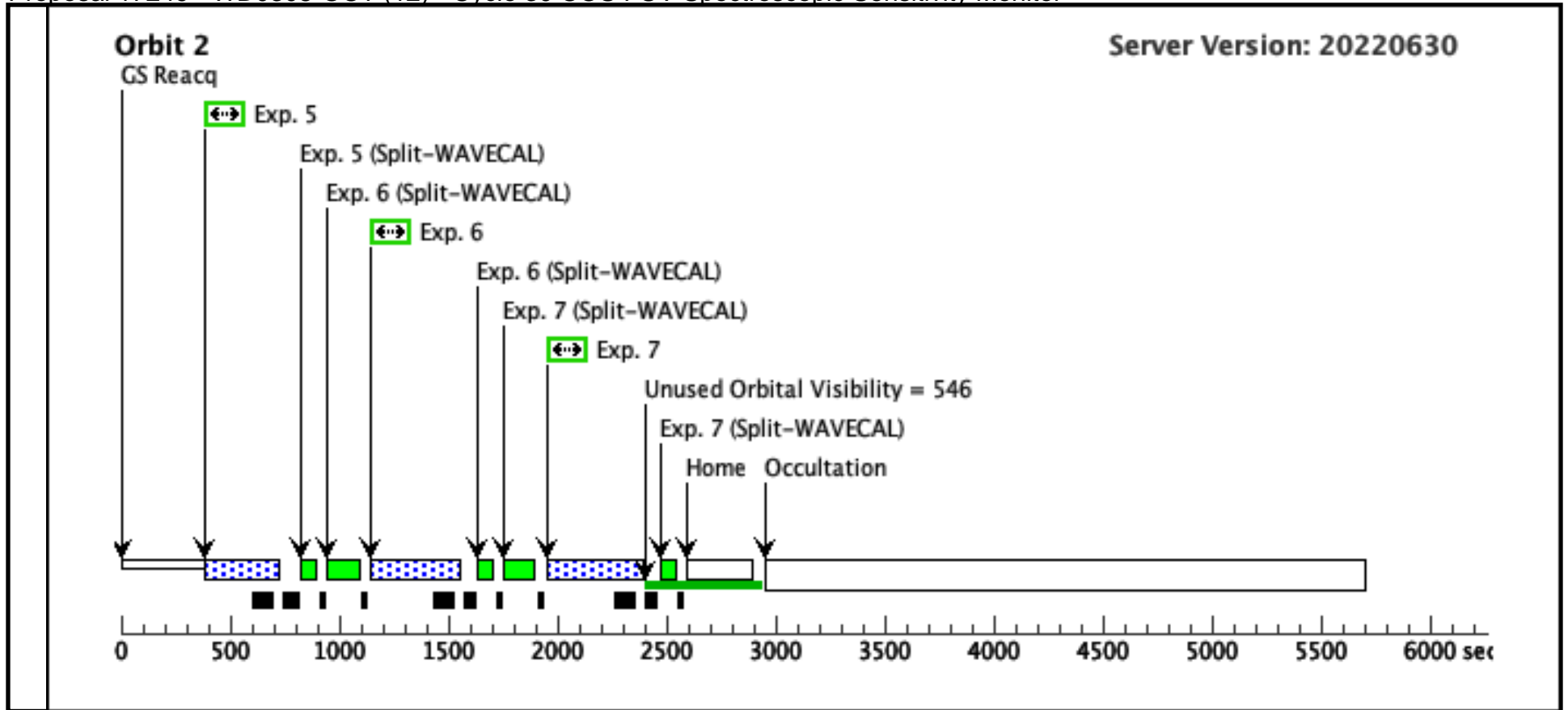
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]
	<i>Comments: cycle 24 comment: exposure times not reduced following 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	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) [==>]	[1]
	<i>Comments: ETC buffer time is 502 sec. Set buffer time = exptime - 110 sec.</i>								
	3	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) [==>]	[1]
	<i>Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec.</i>								
4	G160M/153 3/BOTH/LP 6 (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) [==>]	[1]	
<i>Comments: ETC buffer time is 502 sec. Set buffer time = exptime - 110 sec.</i>									
5	G160M/157 7/BOTH/LP 6 (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) [==>]	[2]	
<i>Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec.</i>									
6	G160M/161 1/BOTH/LP 6 (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) [==>]	[2]	
<i>Comments: ETC buffer time is 755 sec. Set buffer time = exptime - 110 sec.</i>									

Proposal 17249 - WD0308-OCT (12) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

7	G160M/162 (1) WD0308-565 3/BOTH/LP 6 (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) [==>]	[2]
<p>Comments: ETC buffer time is 814 sec. Set buffer time = exptime - 110 sec</p>						

Orbit Structure





Proposal 17249 - GD71-OCT (11) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

Wed May 24 16:01:00 GMT 2023

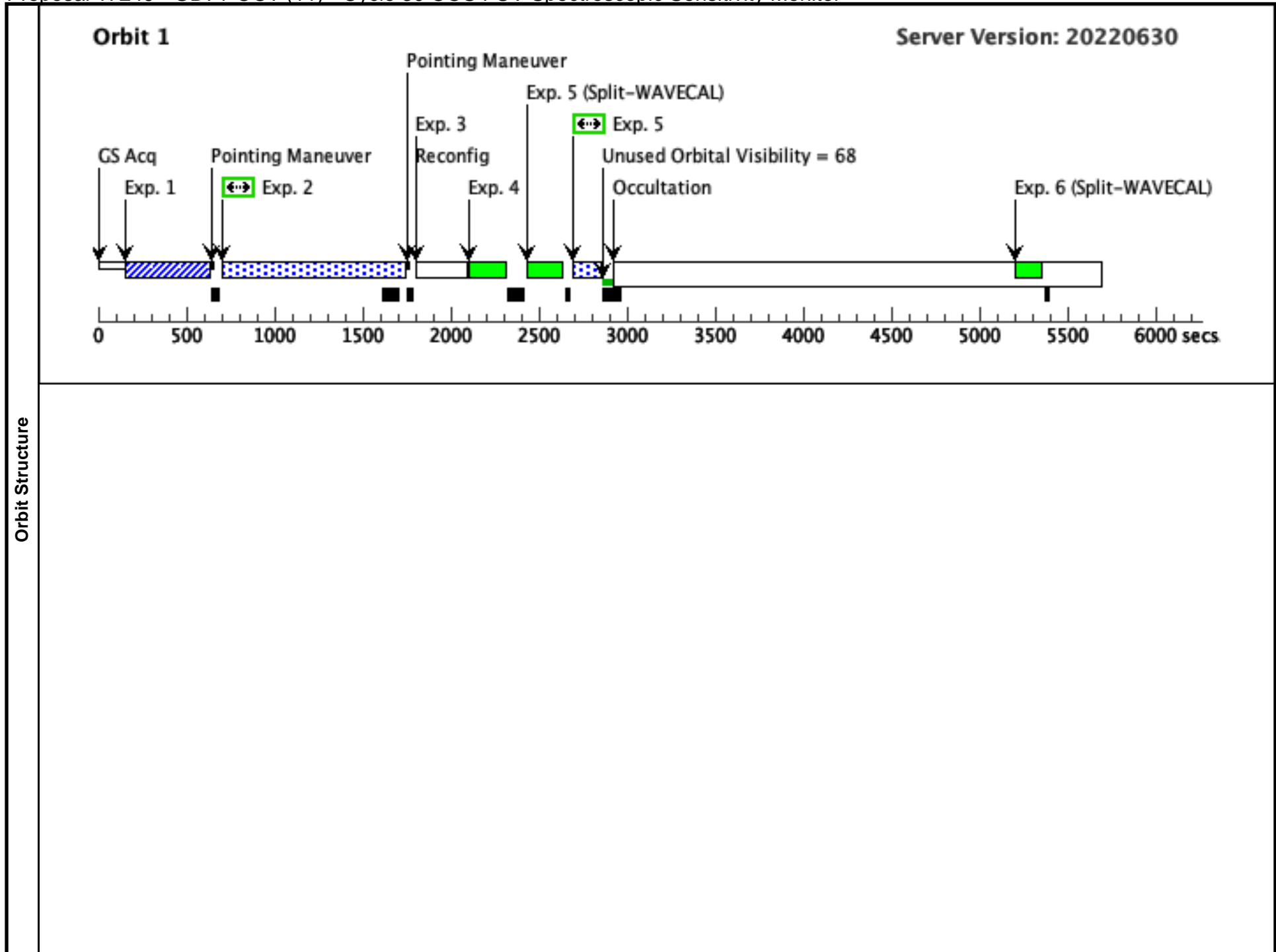
Visit	<p>Proposal 17249, GD71-OCT (11), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 06-OCT-2023:00:00:00 AND 19-OCT-2023:00:00:00</p> <p><i>Comments: exposure 4: GO wavecal to calculate the OSM 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>1533 & 1577 LP4</i></p>																	
	<p>Diagnosics</p> <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>						#	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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<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 17249 - GD71-OCT (11) - Cycle 30 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.182 0351)	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=71 9; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			829 Secs (829 Secs) [==>]	[1]	
	<i>Comments: Cycle 30 comment: exposure time updated following FLUXTAB update.</i>									
	<i>FUVB only (all ETC warnings come from FUVA). The FUVB count rate is 549 cts/sec, so the buffer time is 2.35E6/566 = 4280 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 17249 - GD71-OCT (11) - Cycle 30 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><i>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</i></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><i>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</i></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><i>Comments: FUVA only (all ETC warnings come from FUVB). See Visit 02 comments.</i></p>							



Orbit Structure

