



17328 - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

Cycle: 31, Proposal Category: CAL/COS

(Availability Mode: RESTRICTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
1A	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	23-Aug-2024 08:00:20.0	yes
1B	(1) WD0308-565	COS/FUV COS/NUV	2	23-Aug-2024 08:00:22.0	yes
02	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	23-Aug-2024 08:00:23.0	yes
3A	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	23-Aug-2024 08:00:25.0	yes

Proposal 17328 (STScI Edit Number: 2, Created: Friday, August 23, 2024, 7:00:45AM 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>
3B	(1) WD0308-565	COS/FUV COS/NUV	2	23-Aug-2024 08:00:27.0	yes
04	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	23-Aug-2024 08:00:28.0	yes
5A	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	23-Aug-2024 08:00:30.0	yes
5B	(1) WD0308-565	COS/FUV COS/NUV	2	23-Aug-2024 08:00:31.0	yes
06	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	23-Aug-2024 08:00:33.0	yes
7A	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	23-Aug-2024 08:00:34.0	yes
7B	(1) WD0308-565	COS/FUV COS/NUV	2	23-Aug-2024 08:00:36.0	yes
8A	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	23-Aug-2024 08:00:37.0	yes
8B	(1) WD0308-565	COS/FUV COS/NUV	2	23-Aug-2024 08:00:39.0	yes
9A	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	23-Aug-2024 08:00:40.0	yes
9B	(3) WD1057+719 DARK WAVE	COS/FUV COS/NUV S/C	3	23-Aug-2024 08:00:42.0	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>
9C	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	23-Aug-2024 08:00:43.0	yes
9D	(1) WD0308-565	COS/FUV COS/NUV	1	23-Aug-2024 08:00:44.0	yes

34 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. Each cycle a calibration proposal to monitor the sensitivity of each FUV grating mode at several cenwave settings is implemented. The monitor runs on an approximate schedule of one set of visits every two months. This program is contingency program that will be triggered in the case that the sensitivity of any grating/mode is found to be rapidly decreasing and therefore requiring a higher cadence of observations.

OBSERVING DESCRIPTION

The description below is from program 17249, the main COS FUV Spectroscopic Sensitivity Monitor for Cycle 31. This is a contingency program, and the exposure sequence in each visit are identical to those in the main program. However, there are no "between" constraints as yet specified for each of these visits. If it is necessary to trigger the contingency observations, the required dates will be provided.

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,

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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.

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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 2023.
- 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 30, with the exception of the exposure times for cenwaves 1291, 1533/FUVA, 1577/FUVA, 1611/FUVA and 1623/FUVA, 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 the WD0308-565 observations using G160M, the specifications now are SEGMENT=B (i.e. segment A is turned off). Exceptions are the May and July visits (visit 7A, 7B, 8A, 8B) 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, such monitoring continued in Cycle 31.

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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.

In Cycle 31 in June, G160M/1611 was removed.

In Cycle 31 in June, HST went into reduced gyro mode (RGM). Due to this, GD71 will be replaced with WD1057+719. As this new target is dimmer, WD1057+719 can observe all the G160M observations with both segments. WD1057+719 is unscheduable in July-August so the contingency visit in July will continue to be observed with WD308-565. All ETC calculations have been updated for the G160M and G130M/1096/FUVB observations for this new target. The remaining sequences occur as following: 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 3 orbit visit (target WD1057+719) that covers

G130M/1096/FUVB,

G160M/1533,

G160M/1577,

G160M/1623.

The 3 orbit visit covers both LP4 and LP6 of G160M.

All SNR requirements remain the same except for G130M/1096/FUVB, where the same is ~7 SNR at 1030A. The quality of the data will be

Proposal 17328 (STScI Edit Number: 2, Created: Friday, August 23, 2024, 7:00:45AM Eastern Standard Time) - Overview comparable.

In Cycle 31, the following visits were amended to provide updated connection visits between the targets GD71 and WD1057+719, as significant time had affected the original connection visits from PID 15680 due to LP changes of the affected modes: 9A, 9B.

These visits are followed by new visits (9C and 9D), to act as connection visits. 9C and 9D covers the following: A 2-orbit visit of GD71:

G130M/1096/FUVB,

G160M/1533/FUVA,

G160M/1577/FUVA,

G160M/1623/FUVA.

and a 1-orbit visits of WD0308-565:

G160M/1533/FUVB,

G160M/1577/FUVB,

G160M/1623/FUVB.

All orbits cover LP6 of G160M. The ETC calculations of 9C and 9D remain the same as previous visits.

Proposal 17328 - WD0308-C1A (1A) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

Fri Aug 23 12:00:45 GMT 2024

Visit	<p>Proposal 17328, WD0308-C1A (1A), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 90%; BETWEEN 10-NOV-2023:00:00:00 AND 24-NOV-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-C1A (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.</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				
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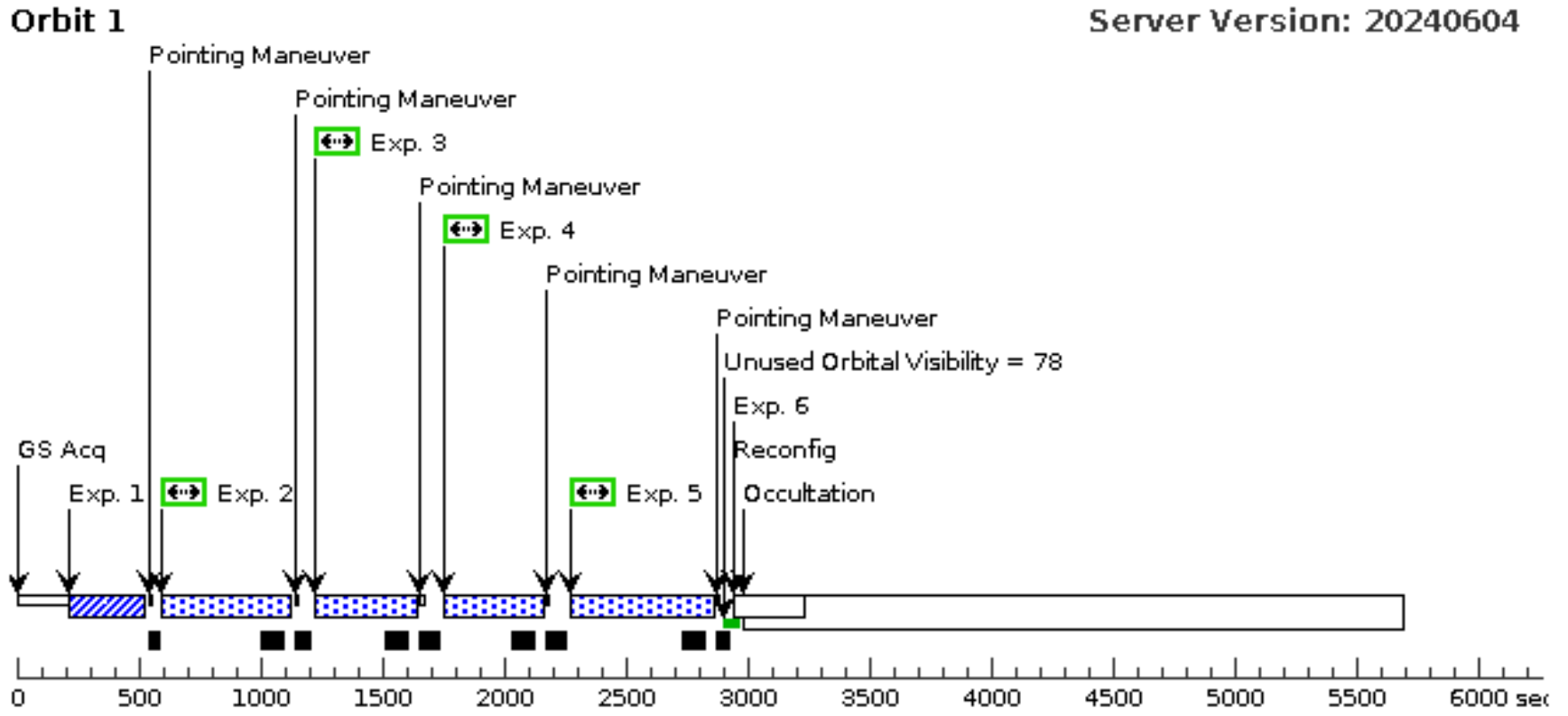
Proposal 17328 - WD0308-C1A (1A) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

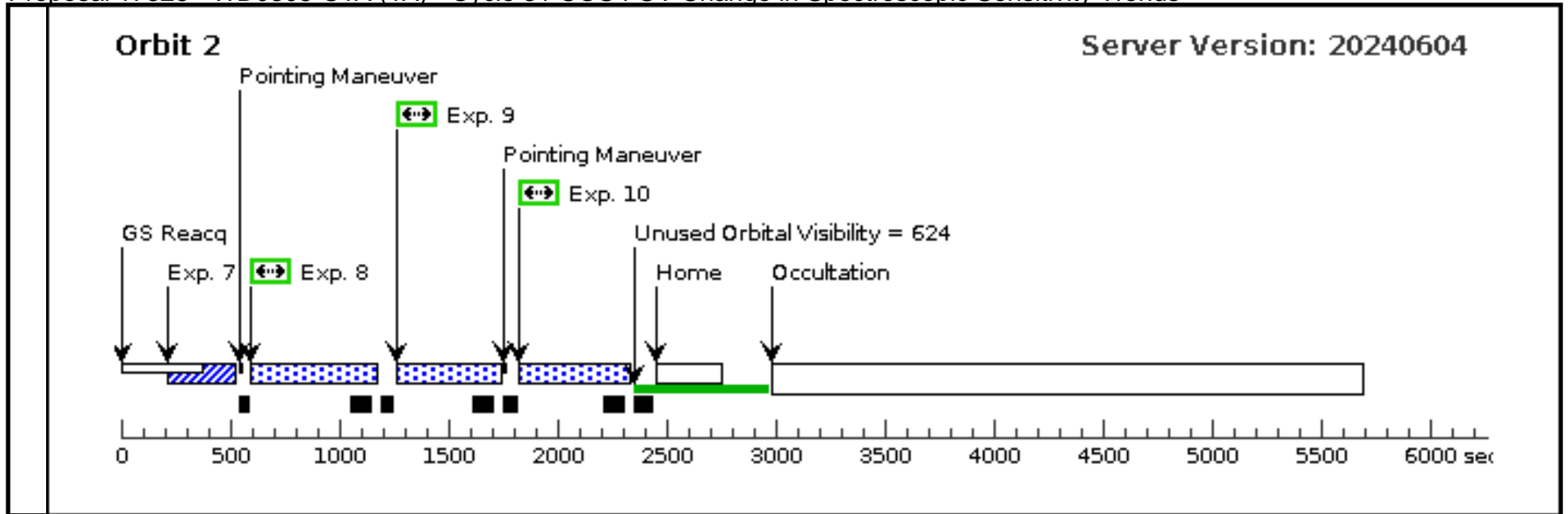
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following 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.186 5092)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=14 9; FP-POS=3; LIFETIME-POS=L P5; SEGMENT=BOTH			259 Secs (259 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is 344 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 17328 - WD0308-C1A (1A) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

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 17328 - WD0308-C1B (1B) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

Fri Aug 23 12:00:45 GMT 2024

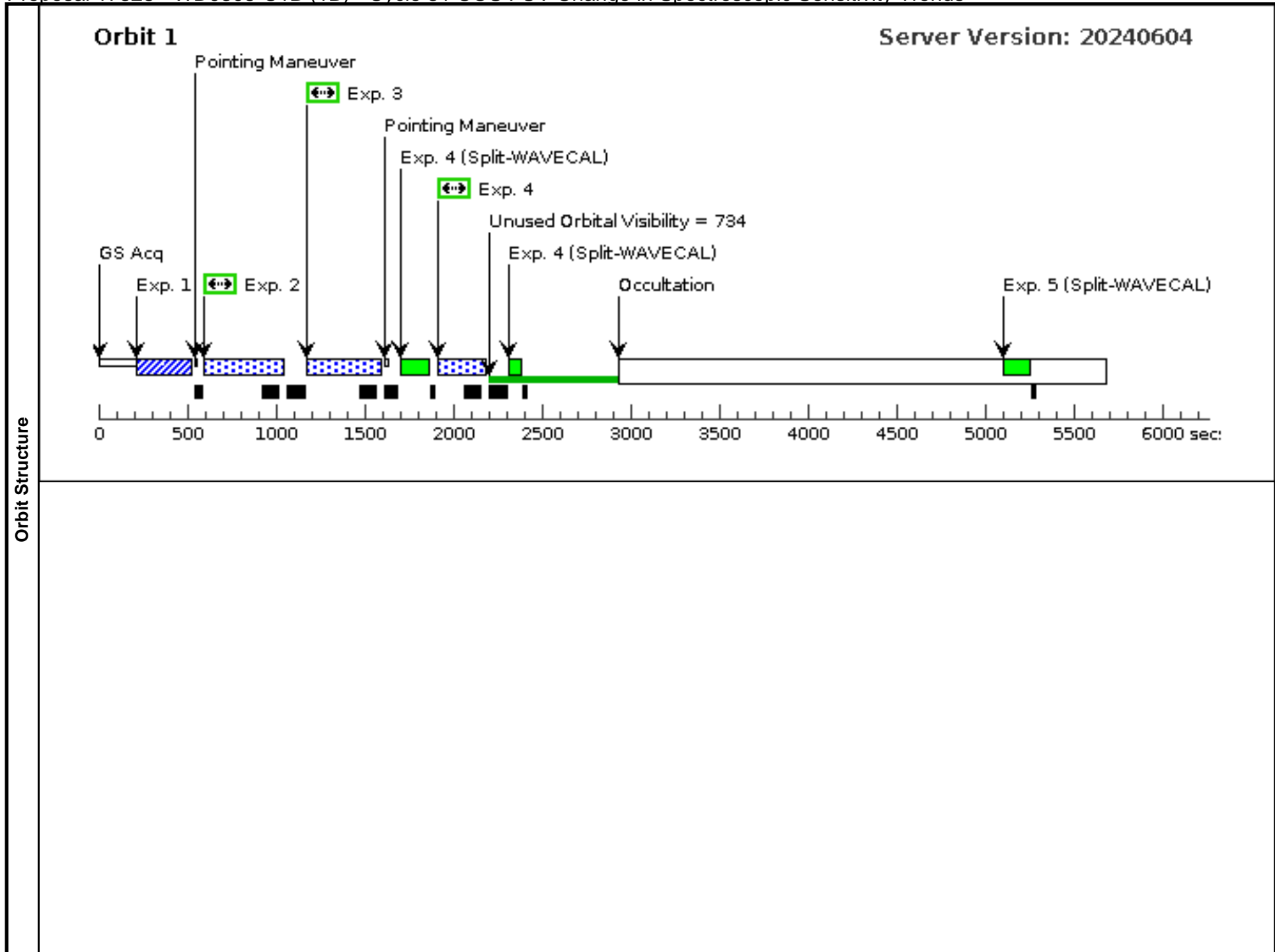
Visit	<p>Proposal 17328, WD0308-C1B (1B), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 10-NOV-2023:00:00:00 AND 24-NOV-2023:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).</i></p> <p>1533 & 1577 LP4</p>																	
	<p>Diagnosics</p> <p>(WD0308-C1B (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.</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
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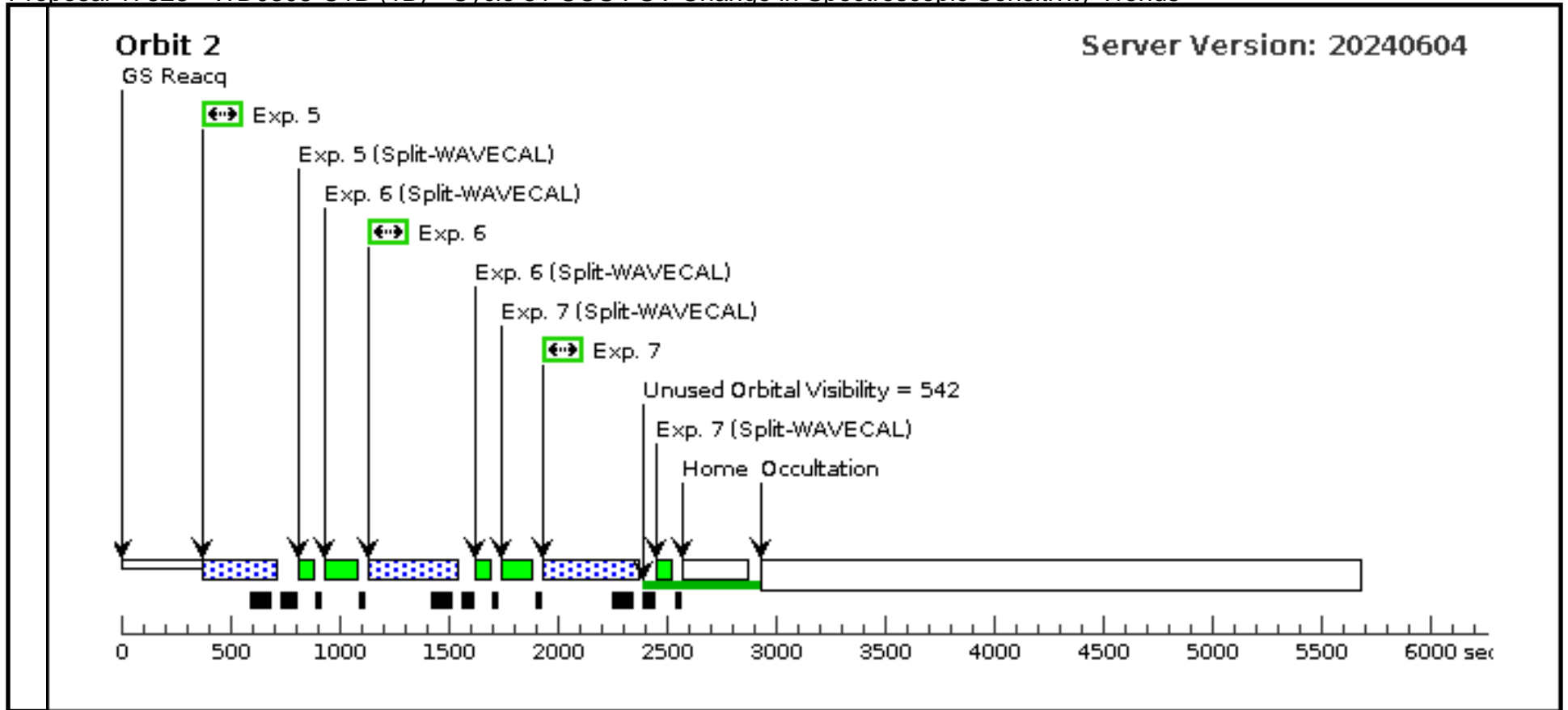
Proposal 17328 - WD0308-C1B (1B) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

#	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/B/LP4 (COS.sp.145 7649)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=11 3; LIFETIME-POS=L P4; SEGMENT=B		223 Secs (223 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is 502 sec. Set buffer time = exptime - 110 sec.</i>								
	3	G160M/157 7/B/LP4 (COS.sp.154 0036)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=18 1; LIFETIME-POS=L P4; SEGMENT=B		291 Secs (291 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is 644 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 17328 - WD0308-C1B (1B) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

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>						





Proposal 17328 - GD71-C1 (02) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

Fri Aug 23 12:00:45 GMT 2024

Visit	<p>Proposal 17328, GD71-C1 (02), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 80%; BETWEEN 10-NOV-2023:00:00:00 AND 24-NOV-2023:00:00:00</p> <p><i>Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation George Chapman added Exposure 3 All G160M observations are with SEGMENT = A (i.e. segment B is turned off).</i></p> <p>1533 & 1577 LP4</p>																	
Diagnostics	<p>(GD71-C1 (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.</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. Category=STAR Description=[DA] 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 17328 - GD71-C1 (02) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

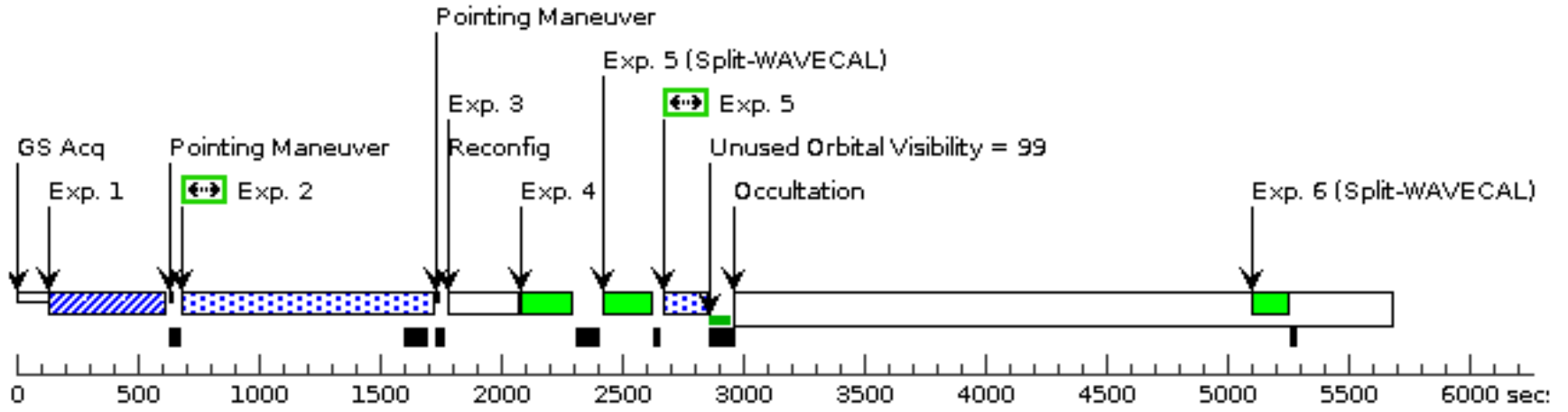
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (2) GD71 (COS.ta.839 574)	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs) [==>]	[1]	
	<p>Comments: Exptime for S/N of 60 is 105.5 sec, using 90 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.186 5093)	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=12 5; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6			125 Secs (125 Secs) [==>]	[1]		
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 8265 cts/sec, so the buffer time is $2.35E6/8265 = 284$ sec. Set buffer-time = exptime</p>										
6	G160M/157 (2) GD71 7/FUVA/LP 6 (COS.sp.186 5094)	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=15 4; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6			154 Secs (154 Secs) [==>]	[2]		
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 5794 cts/sec, so the buffer time is $2.35E6/5794 = 406$ sec. Set buffer-time = exptime</p>										

Proposal 17328 - GD71-C1 (02) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

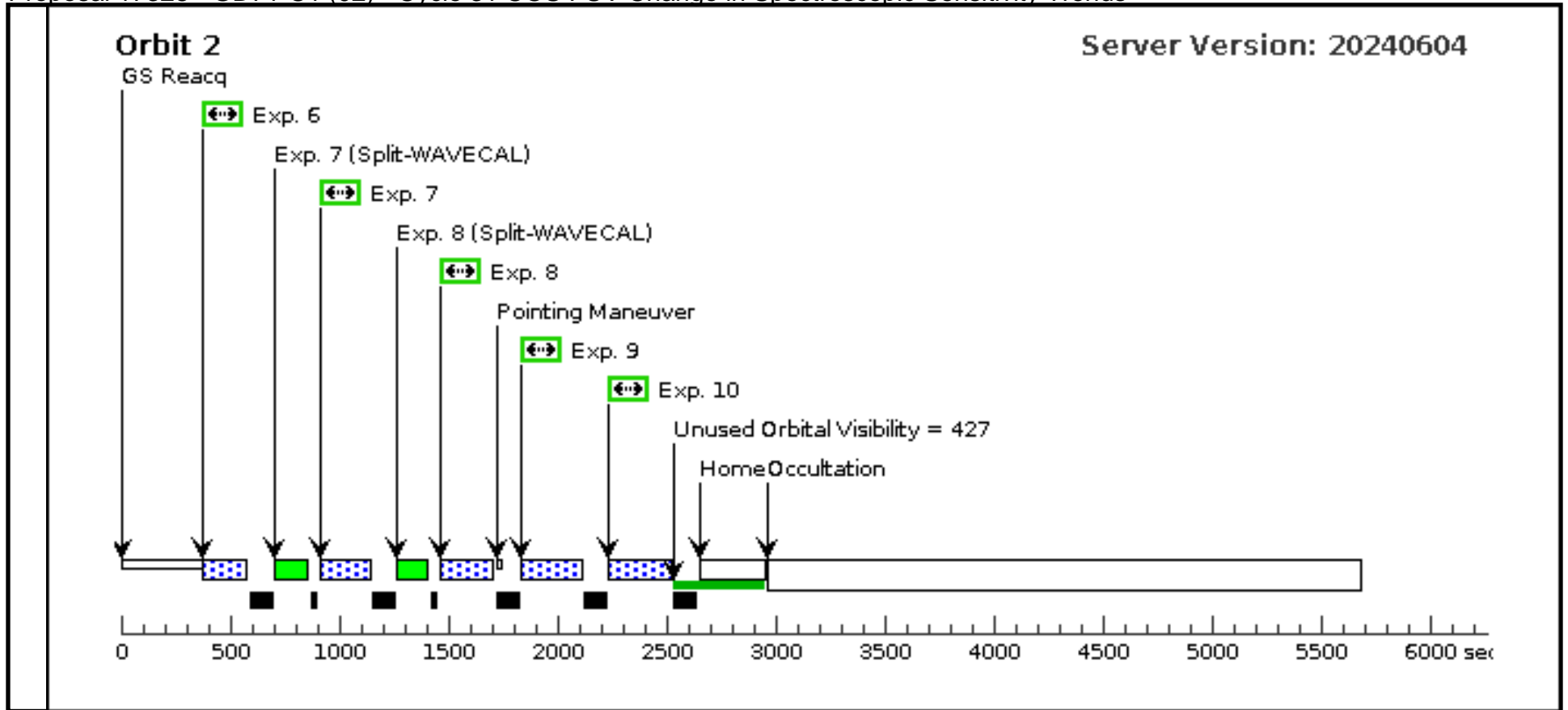
7	G160M/161 (2) GD71 1/FUVA/LP 6 (COS.sp.186 5095)	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=17 8; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6	178 Secs (178 Secs) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 4685 cts/sec, so the buffer time is $2.35E6/4685 = 502$ sec. Set buffer-time = exptime</p>						
8	G160M/162 (2) GD71 3/FUVA/LP 6 (COS.sp.186 5082)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=19 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6	192 Secs (192 Secs) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 4294 cts/sec, so the buffer time is $2.35E6/4294 = 547$ sec. Set buffer-time = exptime</p>						
9	G160M/153 (2) GD71 3/FUVA/LP 4 (COS.sp.186 5093)	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=12 5; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	125 Secs (125 Secs) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 8265 cts/sec, so the buffer time is $2.35E6/8265 = 284$ sec. Set buffer-time = exptime</p>						
10	G160M/157 (2) GD71 7/FUVA/LP 4 (COS.sp.186 5094)	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=15 4; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	154 Secs (154 Secs) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 5794 cts/sec, so the buffer time is $2.35E6/5794 = 406$ sec. Set buffer-time = exptime</p>						

Orbit 1

Server Version: 20240604



Orbit Structure



Proposal 17328 - WD0308-C2A (3A) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

Fri Aug 23 12:00:45 GMT 2024

Visit	<p>Proposal 17328, WD0308-C2A (3A), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 90%; BETWEEN 03-JAN-2024:00:00:00 AND 12-JAN-2024:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).</i></p>					
	<p>(WD0308-C2A (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.</p>					
Diagnosics						
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>Category=STAR Description=[DB] Extended=NO</p>						

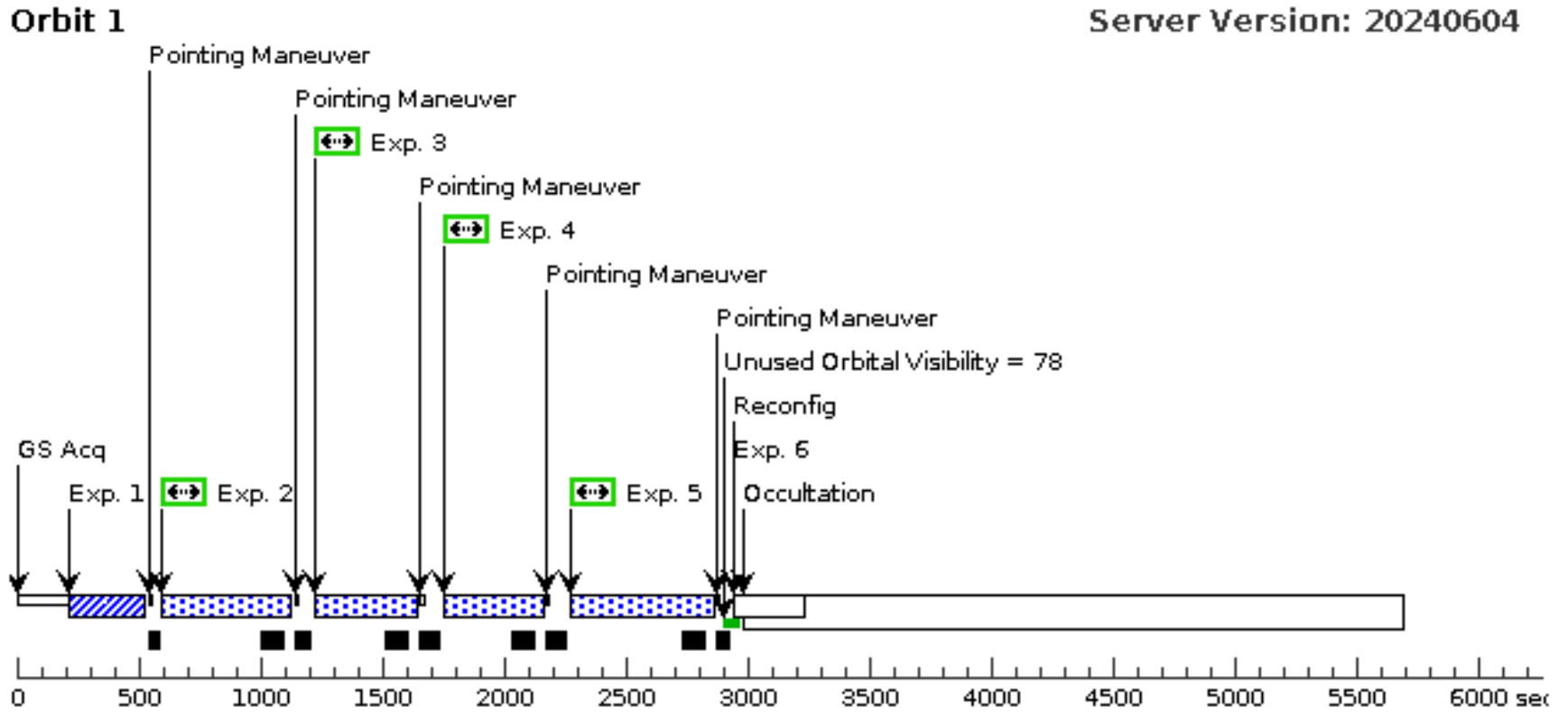
Proposal 17328 - WD0308-C2A (3A) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

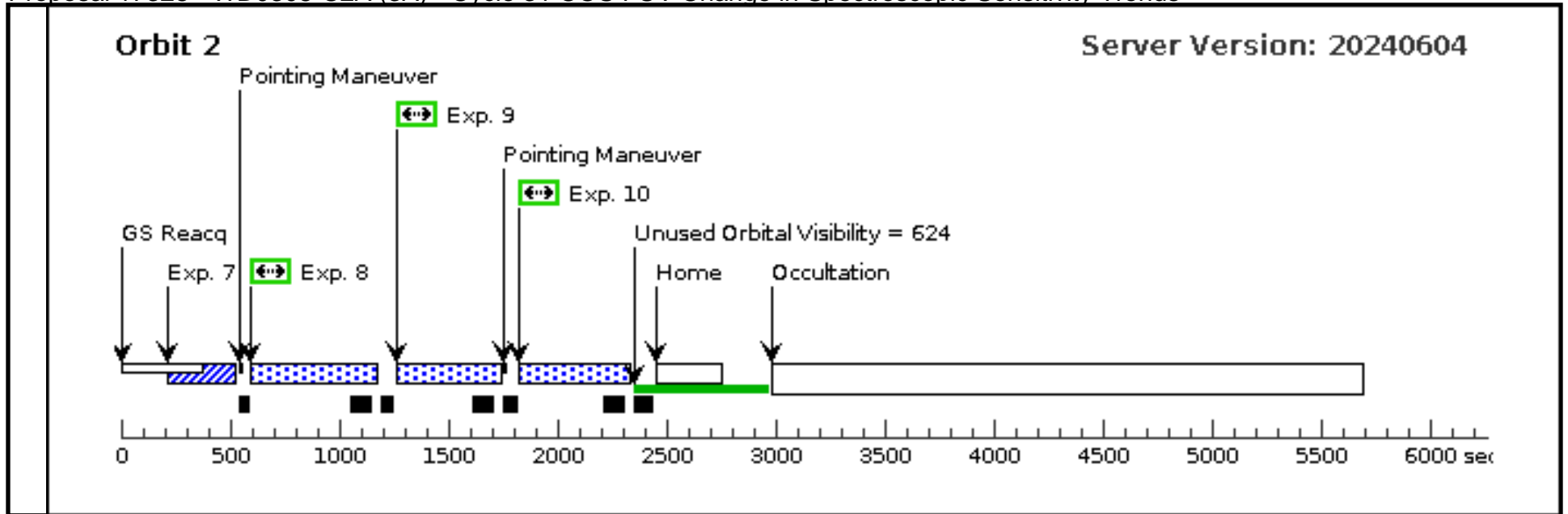
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following 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.186 5092)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=14 9; FP-POS=3; LIFETIME-POS=L P5; SEGMENT=BOTH			259 Secs (259 Secs) [==>]	[1]
<i>Comments: ETC buffer time is 344 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 17328 - WD0308-C2A (3A) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

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 17328 - WD0308-C2B (3B) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

Fri Aug 23 12:00:45 GMT 2024

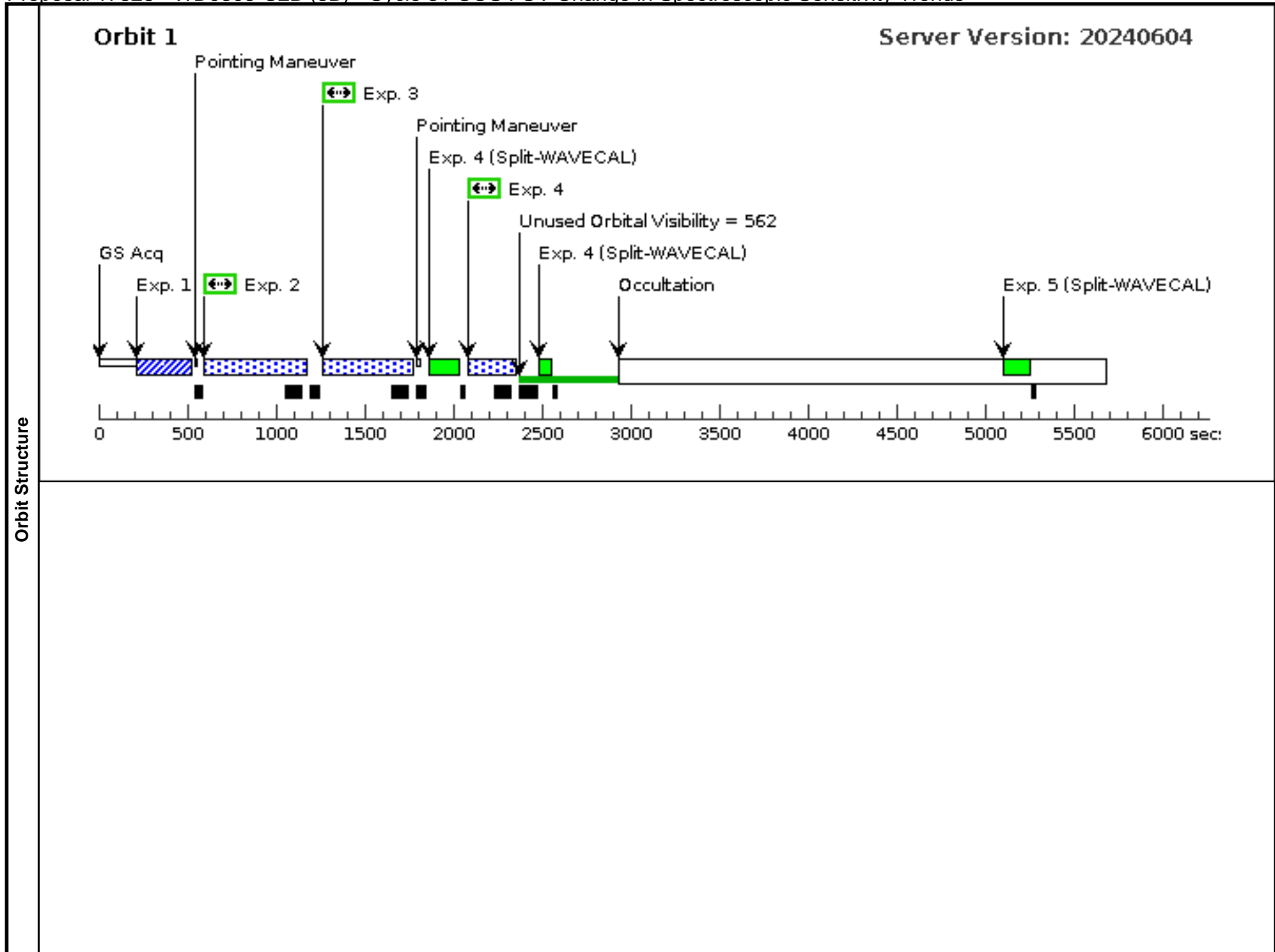
Visit	<p>Proposal 17328, WD0308-C2B (3B), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 03-JAN-2024:00:00:00 AND 12-JAN-2024:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).</i></p> <p>1611 & 1623 LP4</p>																	
	<p>Diagnosics</p> <p>(WD0308-C2B (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.</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													

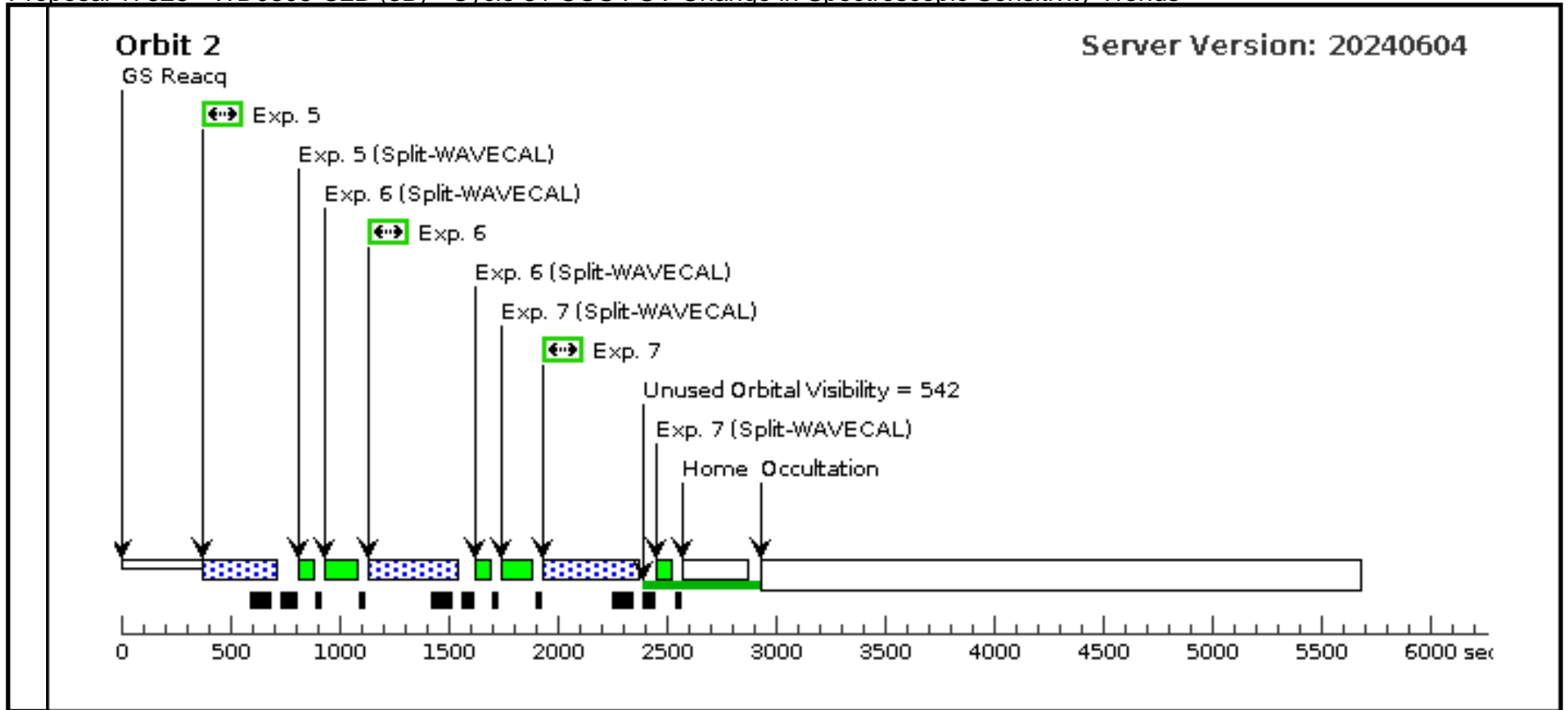
Proposal 17328 - WD0308-C2B (3B) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

#	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 17328 - WD0308-C2B (3B) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

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>						





Proposal 17328 - GD71-C2 (04) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

Fri Aug 23 12:00:45 GMT 2024

Visit	<p>Proposal 17328, GD71-C2 (04), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 80%; BETWEEN 10-JAN-2024:00:00:00 AND 24-JAN-2024:00:00:00</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	(GD71-C2 (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.					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	GD71	RA: 05 52 27.6200 (88.1150833d) Dec: +15 53 13.23 (15.88701d) Equinox: J2000	Proper Motion RA: 76.841 mas/yr Proper Motion Dec: -172.944 mas/yr Epoch of Position: 2000	V=13.06+/-0.01	Reference Frame: ICRS
	<p><i>Comments: Co-ordinates and proper motions updated with values from SIMBAD, which uses the GAIA DR2 catalog.</i></p> <p><i>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 17328 - GD71-C2 (04) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

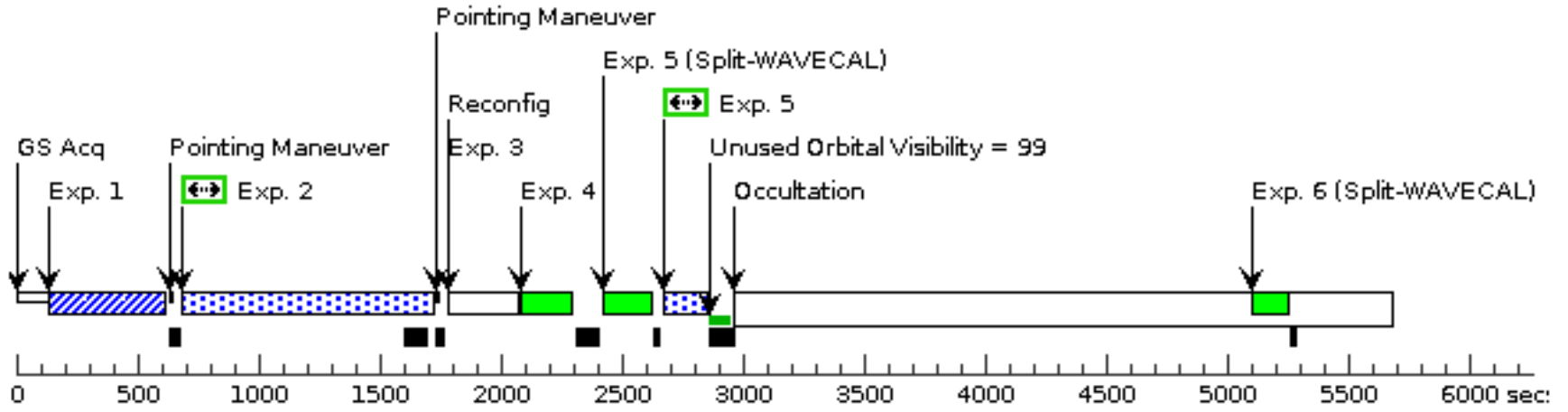
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.839 574)	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs) [==>]	[1]
<p>Comments: Exptime for S/N of 60 is 105.5 sec, using 90 sec leads to 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 6/FUVB/LP 2 (COS.sp.182 0351)	(2) GD71	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 6/FUVA W AVECAL/L P2	WAVE	COS/FUV, TIME-TAG, WCA	G130M 1096 A	FP-POS=3; SEGMENT=A; FLASH=NO; LIFETIME-POS=L P2			160 Secs (160 Secs) [==>]	[1]
<p>Comments: Cycle 28: the exposure time has been updated to 160 seconds. This was determined after characterizing the decrease by about 12 percent in the summed count-rate with time over the period between December 2017 and April 2020.</p>									
5	G160M/153 3/FUVA/LP 6 (COS.sp.186 5093)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=12 5; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6			125 Secs (125 Secs) [==>]	[1]
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 8265 cts/sec, so the buffer time is $2.35E6/8265 = 284$ sec. Set buffer-time = exptime</p>									
6	G160M/157 7/FUVA/LP 6 (COS.sp.186 5094)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=15 4; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6			154 Secs (154 Secs) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 5794 cts/sec, so the buffer time is $2.35E6/5794 = 406$ sec. Set buffer-time = exptime</p>									

Proposal 17328 - GD71-C2 (04) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

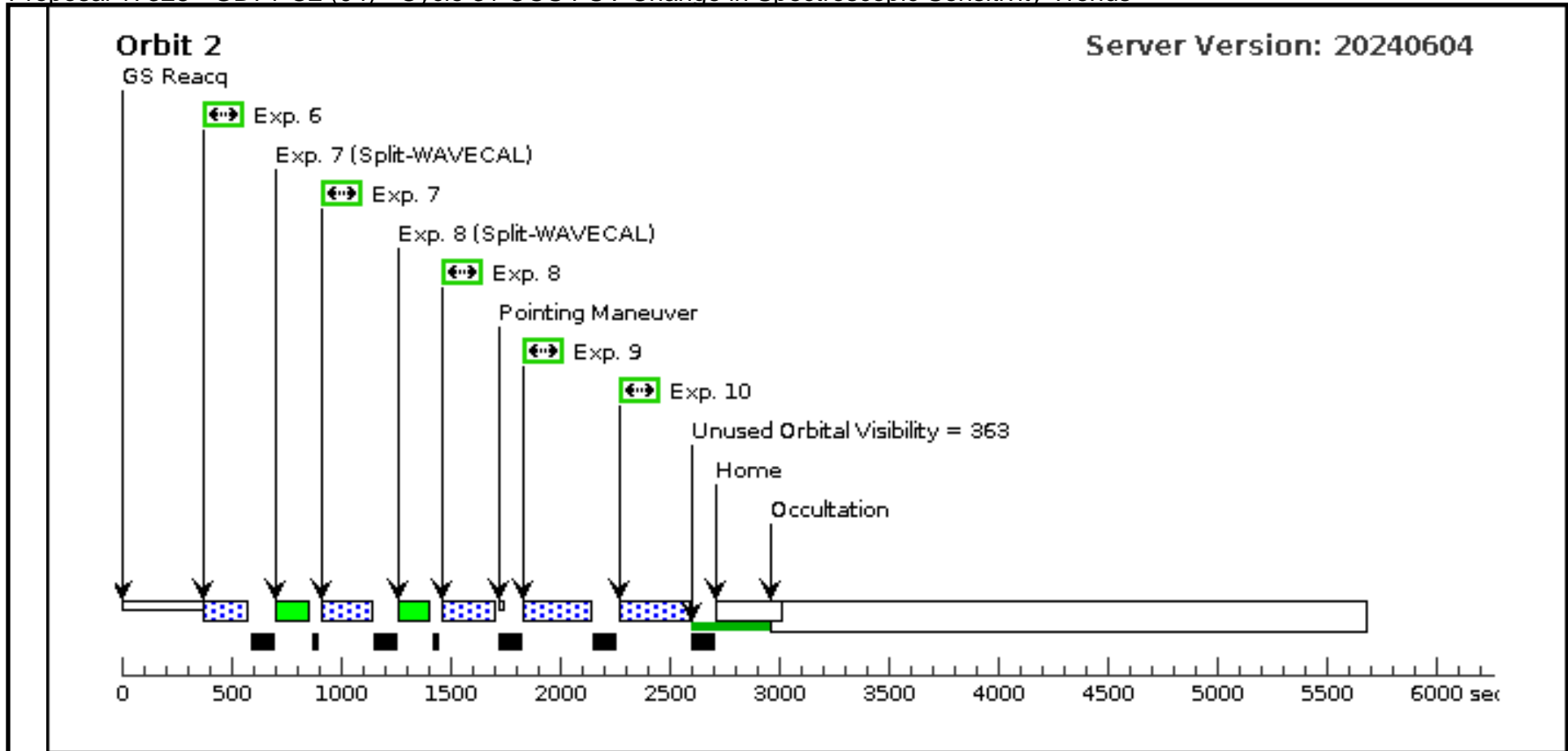
7	G160M/161 1/FUVA/LP 6 (COS.sp.186 5095)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=17 8; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6	178 Secs (178 Secs) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 4685 cts/sec, so the buffer time is $2.35E6/4685 = 502$ sec. Set buffer-time = exptime</p>							
8	G160M/162 3/FUVA/LP 6 (COS.sp.186 5082)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=19 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6	192 Secs (192 Secs) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 4294 cts/sec, so the buffer time is $2.35E6/4294 = 547$ sec. Set buffer-time = exptime</p>							
9	G160M/161 1/FUVA/LP 4 (COS.sp.186 5095)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=17 8; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	178 Secs (178 Secs) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 4685 cts/sec, so the buffer time is $2.35E6/4685 = 502$ sec. Set buffer-time = exptime</p>							
10	G160M/162 3/FUVA/LP 4 (COS.sp.186 5082)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=19 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	192 Secs (192 Secs) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 4294 cts/sec, so the buffer time is $2.35E6/4294 = 547$ sec. Set buffer-time = exptime</p>							

Orbit 1

Server Version: 20240604



Orbit Structure



Proposal 17328 - WD0308-C3A (5A) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

Fri Aug 23 12:00:45 GMT 2024

Visit	<p>Proposal 17328, WD0308-C3A (5A), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 90%; BETWEEN 16-MAR-2024:00:00:00 AND 27-MAR-2024:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).</i></p>																
Diagnostics	<p>(WD0308-C3A (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.</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												

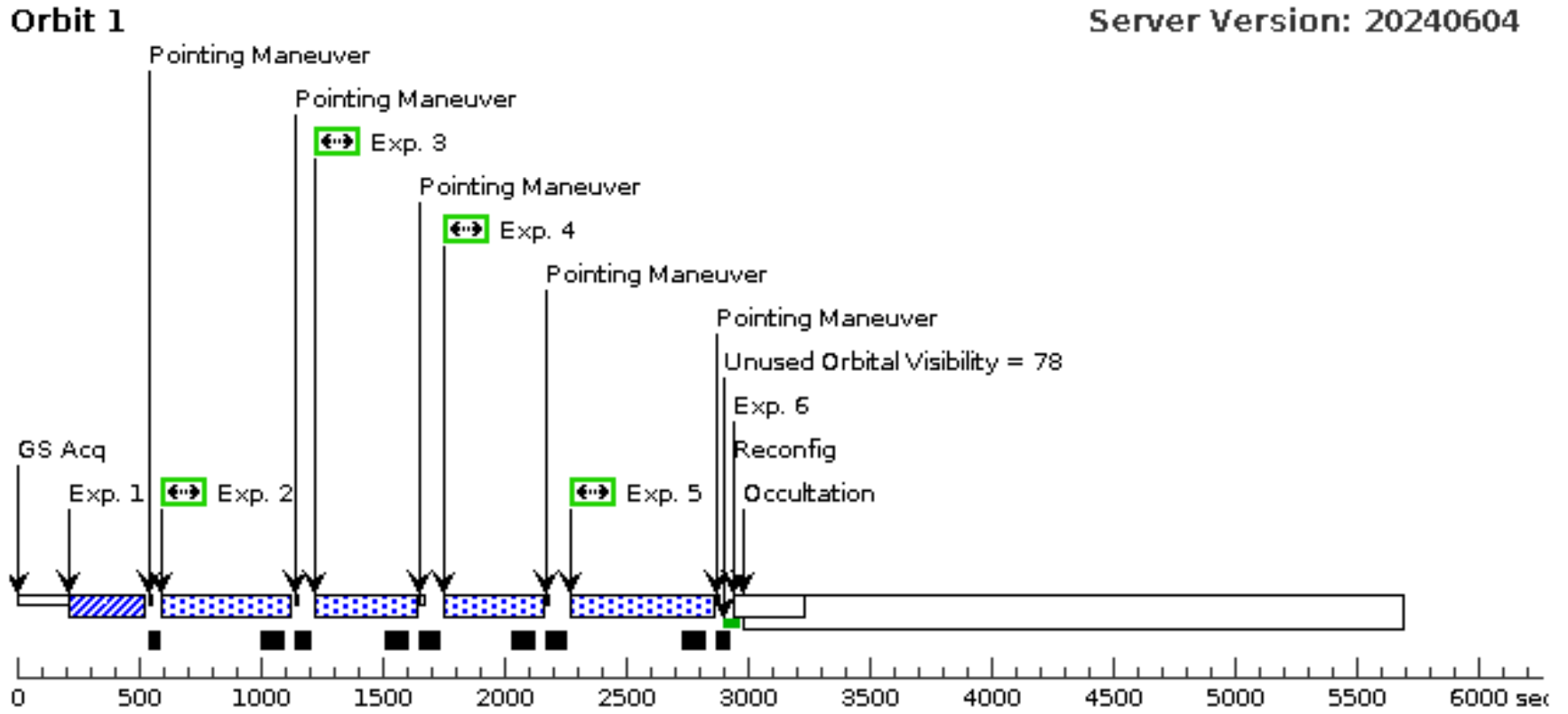
Proposal 17328 - WD0308-C3A (5A) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

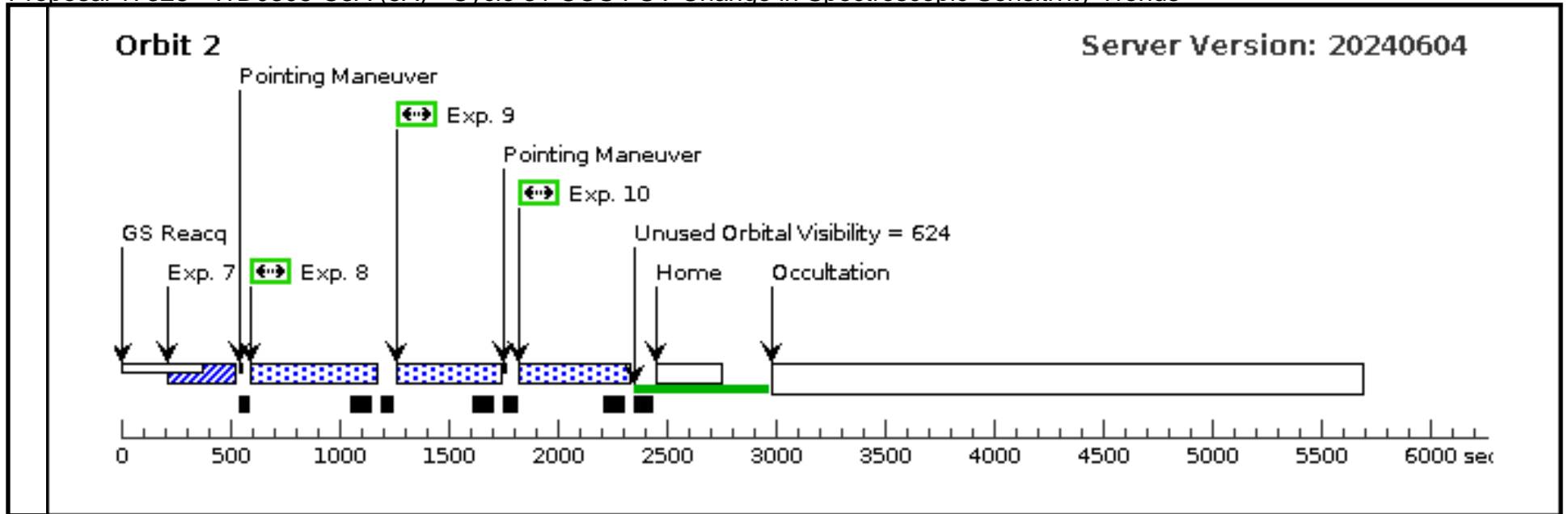
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following 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.186 5092)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=14 9; FP-POS=3; LIFETIME-POS=L P5; SEGMENT=BOTH			259 Secs (259 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is 344 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 17328 - WD0308-C3A (5A) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

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 17328 - WD0308-C3B (5B) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

Fri Aug 23 12:00:46 GMT 2024

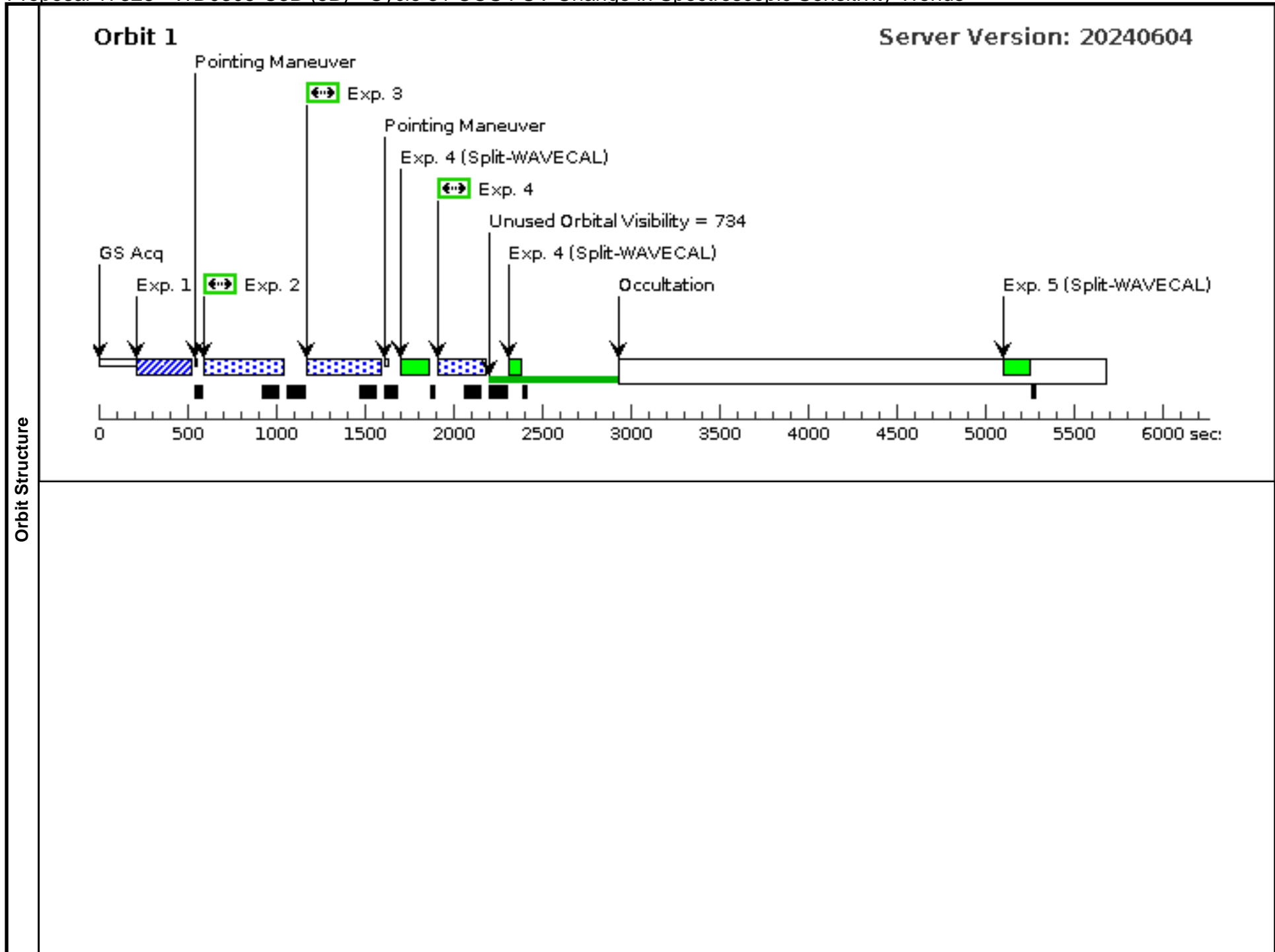
Visit	<p>Proposal 17328, WD0308-C3B (5B), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 16-MAR-2024:00:00:00 AND 27-MAR-2024:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).</i></p> <p>1533 & 1577 LP4</p>					
	<p>Diagnosics</p> <p>(WD0308-C3B (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.</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>Category=STAR Description=[DB] Extended=NO</p>						

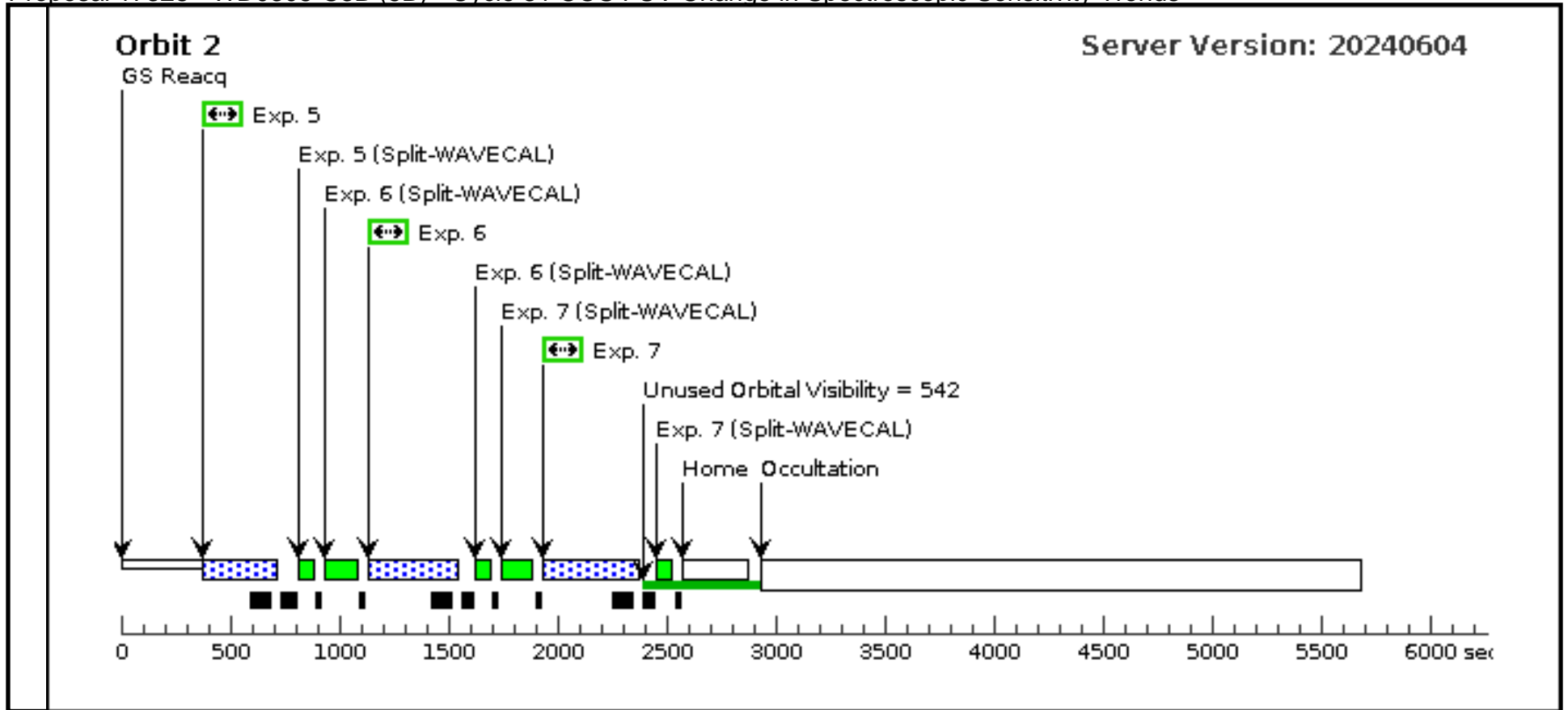
Proposal 17328 - WD0308-C3B (5B) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

#	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/B/LP4 (COS.sp.145 7649)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=11 3; LIFETIME-POS=L P4; SEGMENT=B			223 Secs (223 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is 502 sec. Set buffer time = exptime - 110 sec.</i>									
	3	G160M/157 7/B/LP4 (COS.sp.154 0036)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=18 1; LIFETIME-POS=L P4; SEGMENT=B			291 Secs (291 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is 644 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 17328 - WD0308-C3B (5B) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

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>						





Proposal 17328 - GD71-C3 (06) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

Fri Aug 23 12:00:46 GMT 2024

Visit	<p>Proposal 17328, GD71-C3 (06), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 80%; BETWEEN 10-MAR-2024:00:00:00 AND 24-MAR-2024:00:00:00</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-C3 (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.</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 17328 - GD71-C3 (06) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

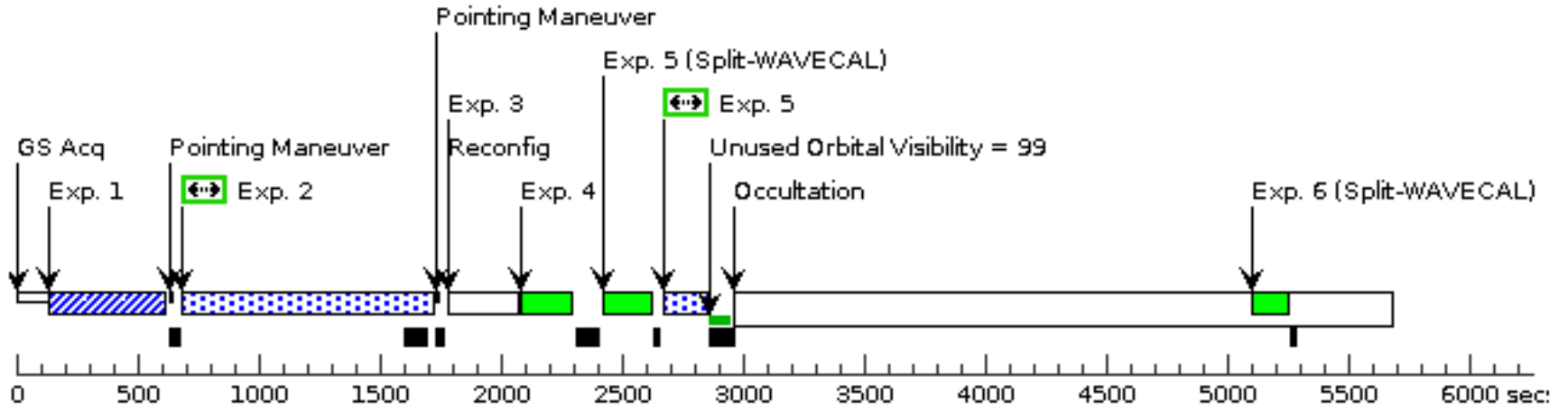
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (2) GD71 (COS.ta.839 574)	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs) [==>]	[1]	
	<p>Comments: Exptime for S/N of 60 is 105.5 sec, using 90 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.186 5093)		COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=12 5; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6			125 Secs (125 Secs) [==>]	[1]	
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 8265 cts/sec, so the buffer time is $2.35E6/8265 = 284$ sec. Set buffer-time = exptime</p>										
6	G160M/157 (2) GD71 7/FUVA/LP 6 (COS.sp.186 5094)		COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=15 4; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6			154 Secs (154 Secs) [==>]	[2]	
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 5794 cts/sec, so the buffer time is $2.35E6/5794 = 406$ sec. Set buffer-time = exptime</p>										

Proposal 17328 - GD71-C3 (06) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

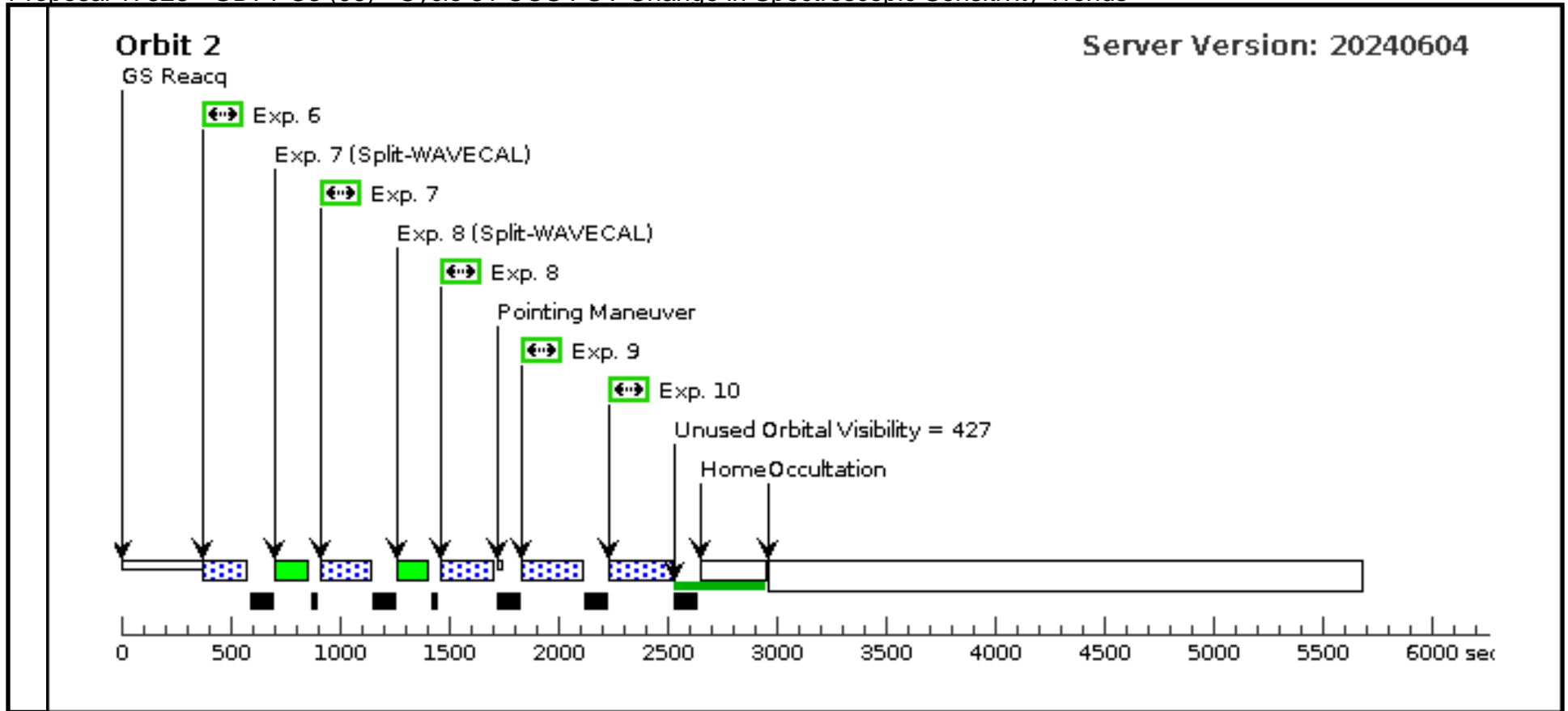
7	G160M/161 1/FUVA/LP 6 (COS.sp.186 5095)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=17 8; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6	178 Secs (178 Secs) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 4685 cts/sec, so the buffer time is $2.35E6/4685 = 502$ sec. Set buffer-time = exptime</p>							
8	G160M/162 3/FUVA/LP 6 (COS.sp.186 5082)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=19 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6	192 Secs (192 Secs) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 4294 cts/sec, so the buffer time is $2.35E6/4294 = 547$ sec. Set buffer-time = exptime</p>							
9	G160M/153 3/FUVA/LP 4 (COS.sp.186 5093)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=12 5; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	125 Secs (125 Secs) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 8265 cts/sec, so the buffer time is $2.35E6/8265 = 284$ sec. Set buffer-time = exptime</p>							
10	G160M/157 7/FUVA/LP 4 (COS.sp.186 5094)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=15 4; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	154 Secs (154 Secs) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 5794 cts/sec, so the buffer time is $2.35E6/5794 = 406$ sec. Set buffer-time = exptime</p>							

Orbit 1

Server Version: 20240604



Orbit Structure



Proposal 17328 - WD0308-C4A (7A) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

Fri Aug 23 12:00:46 GMT 2024

Visit	<p>Proposal 17328, WD0308-C4A (7A), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 90%; BETWEEN 07-MAY-2024:00:00:00 AND 21-MAY-2024:00:00:00</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-C4A (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.</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													

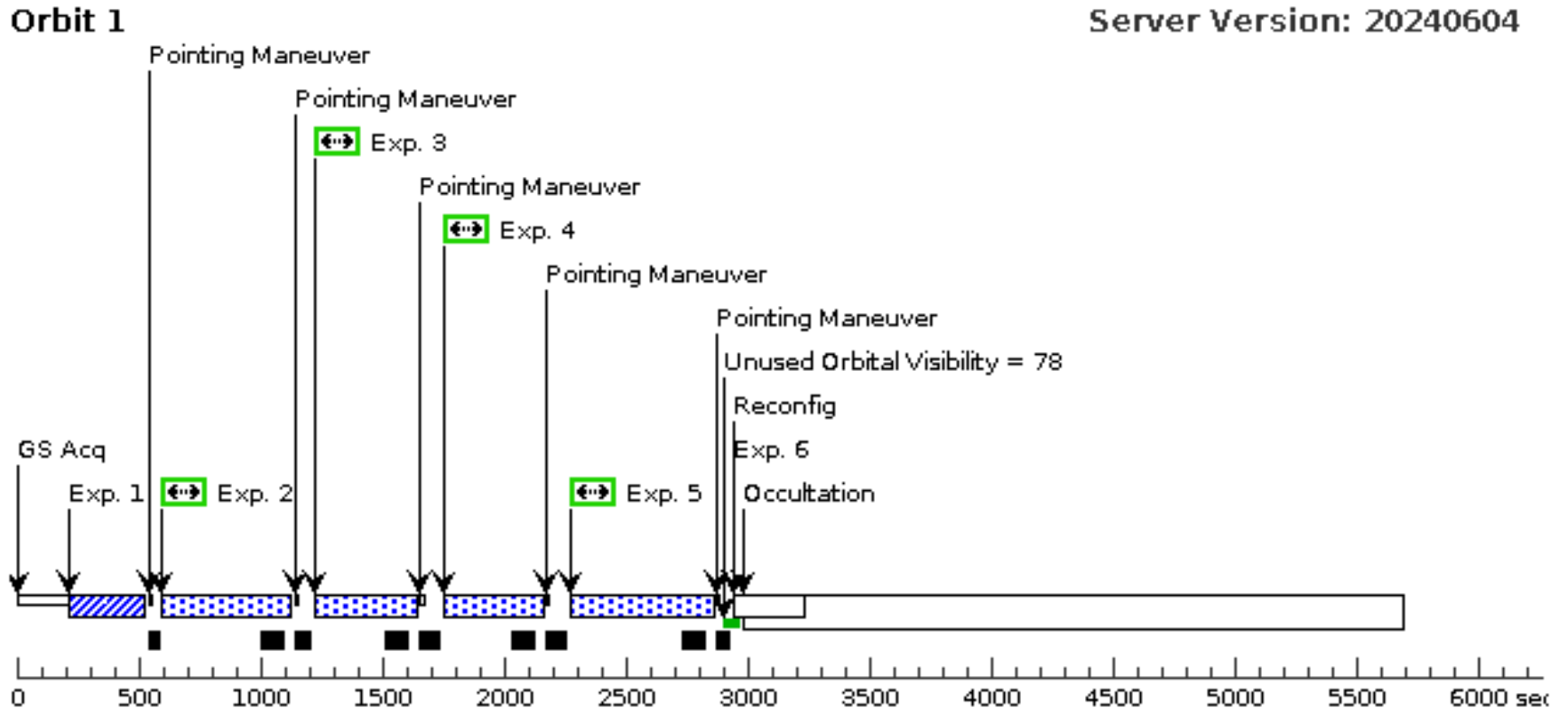
Proposal 17328 - WD0308-C4A (7A) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

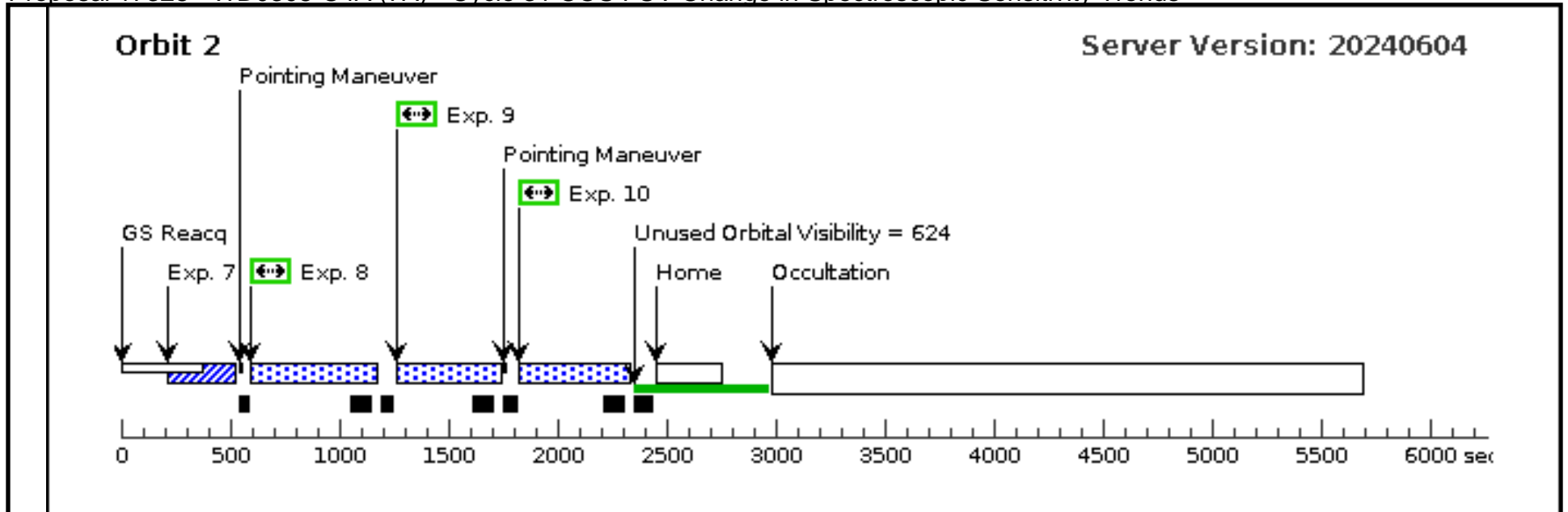
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following 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]
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	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.186 5092)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=14 9; FP-POS=3; LIFETIME-POS=L P5; SEGMENT=BOTH			259 Secs (259 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is 344 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 17328 - WD0308-C4A (7A) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

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 17328 - WD0308-C4B (7B) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

Fri Aug 23 12:00:46 GMT 2024

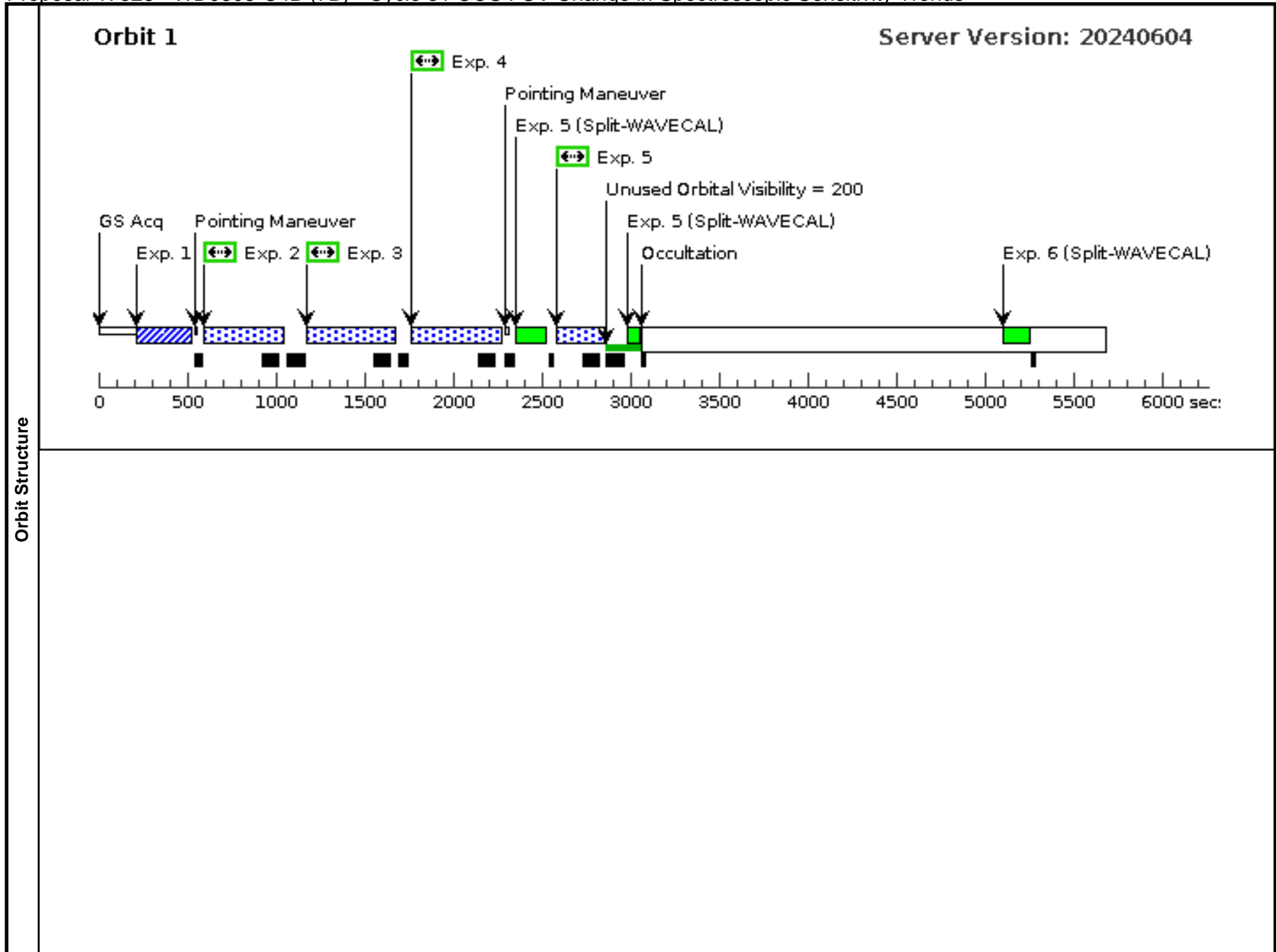
Visit	<p>Proposal 17328, WD0308-C4B (7B), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 80%; BETWEEN 07-MAY-2024:00:00:00 AND 17-MAY-2024:00:00:00</p> <p><i>Comments: All G160M observations are with SEGMENT = B (i.e. segment 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>1533 & 1577 & 1611 & 1623</p>																
	<p>Diagnosics</p> <p>(WD0308-C4B (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.</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
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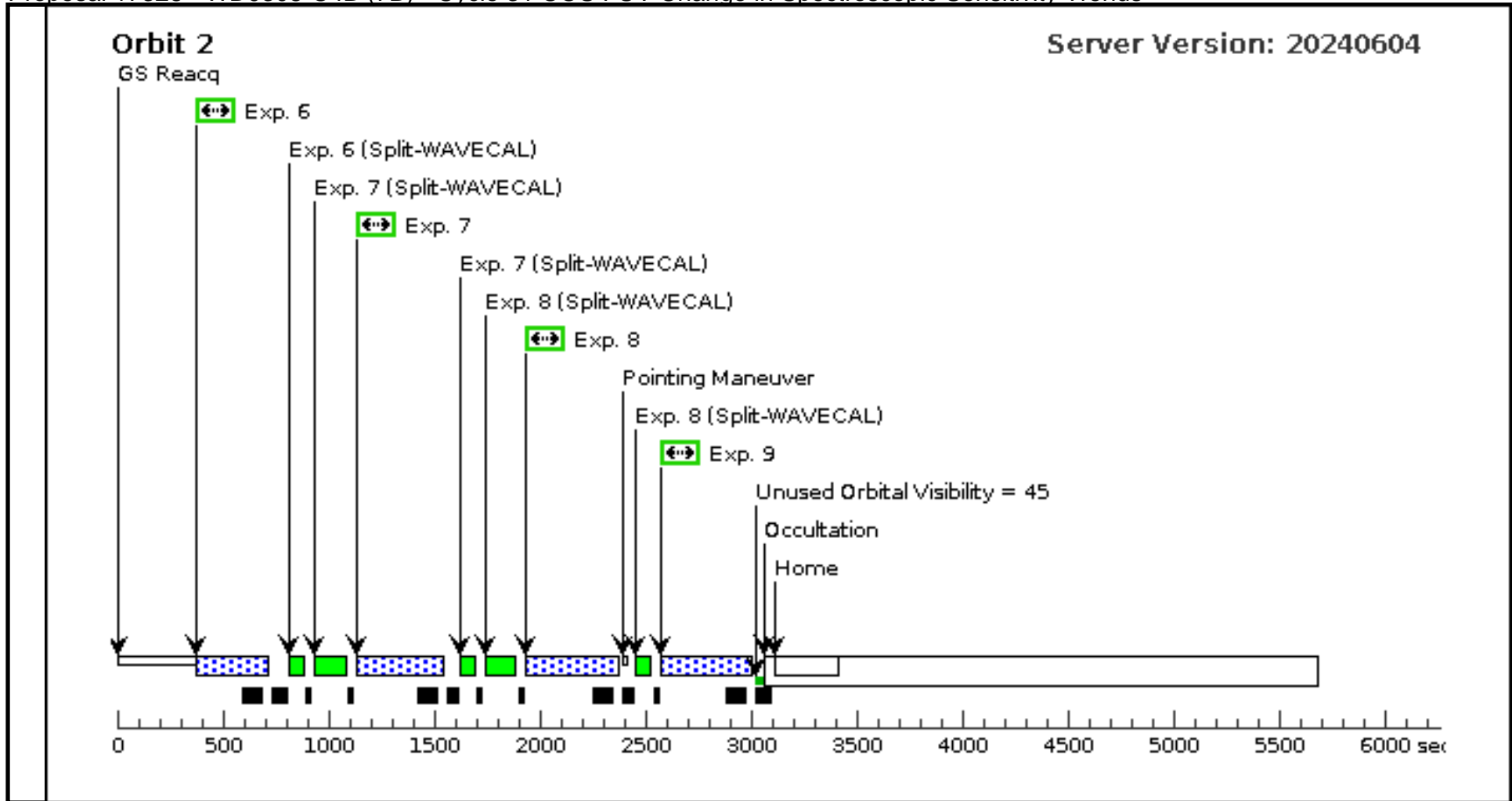
Proposal 17328 - WD0308-C4B (7B) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

#	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 17328 - WD0308-C4B (7B) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

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>							





Proposal 17328 - WD0308-C5A (8A) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

Visit	Proposal 17328, WD0308-C5A (8A), completed Fri Aug 23 12:00:46 GMT 2024 Diagnostic Status: Warning Scientific Instruments: S/C, COS/FUV, COS/NUV Special Requirements: SCHED 90%; BETWEEN 10-JUL-2024:00:00:00 AND 24-JUL-2024:00:00:00																
	Diagnosics (WD0308-C5A (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.																
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																	

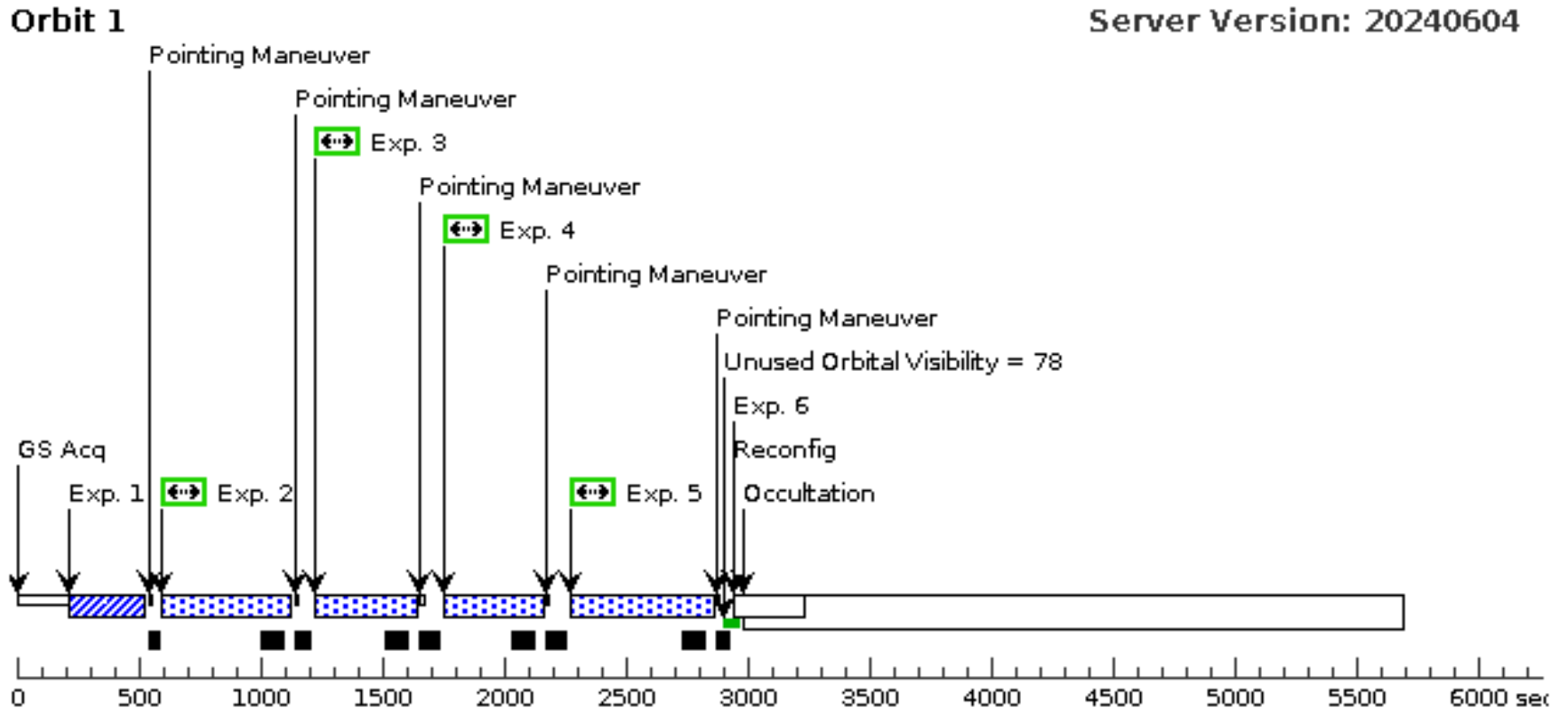
Proposal 17328 - WD0308-C5A (8A) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

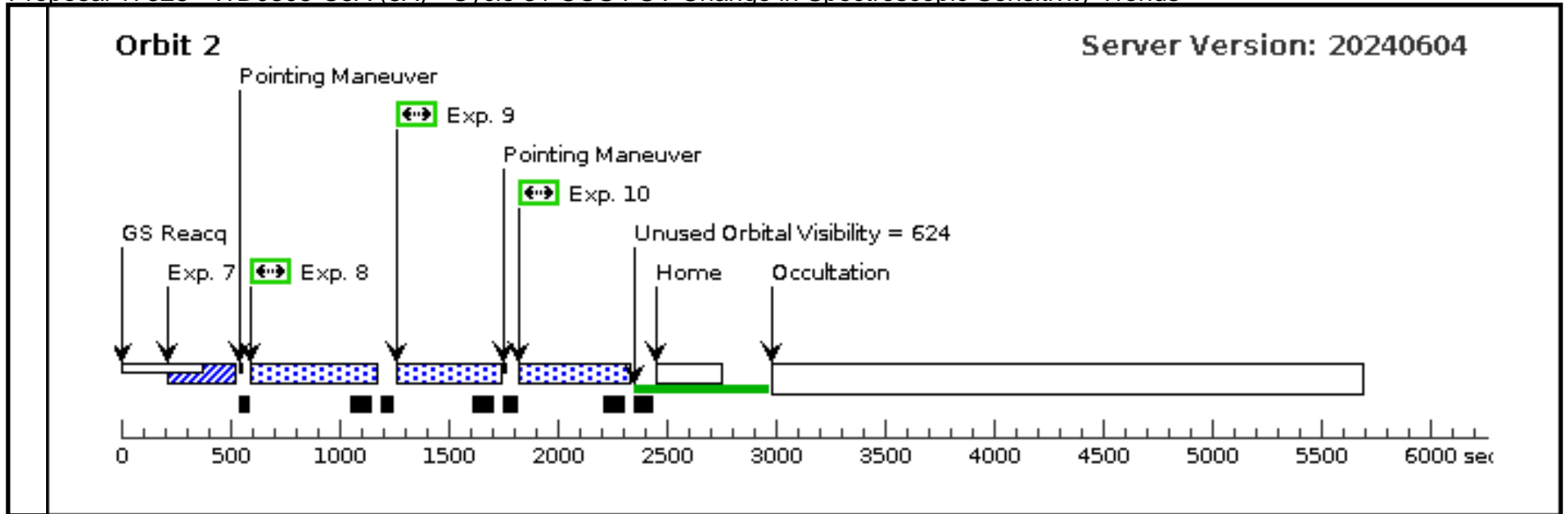
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following 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.186 5092)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=14 9; FP-POS=3; LIFETIME-POS=L P5; SEGMENT=BOTH			259 Secs (259 Secs) [==>]	[1]
<i>Comments: ETC buffer time is 344 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 17328 - WD0308-C5A (8A) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

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]
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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 17328 - WD0308-C5B (8B) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

Fri Aug 23 12:00:46 GMT 2024

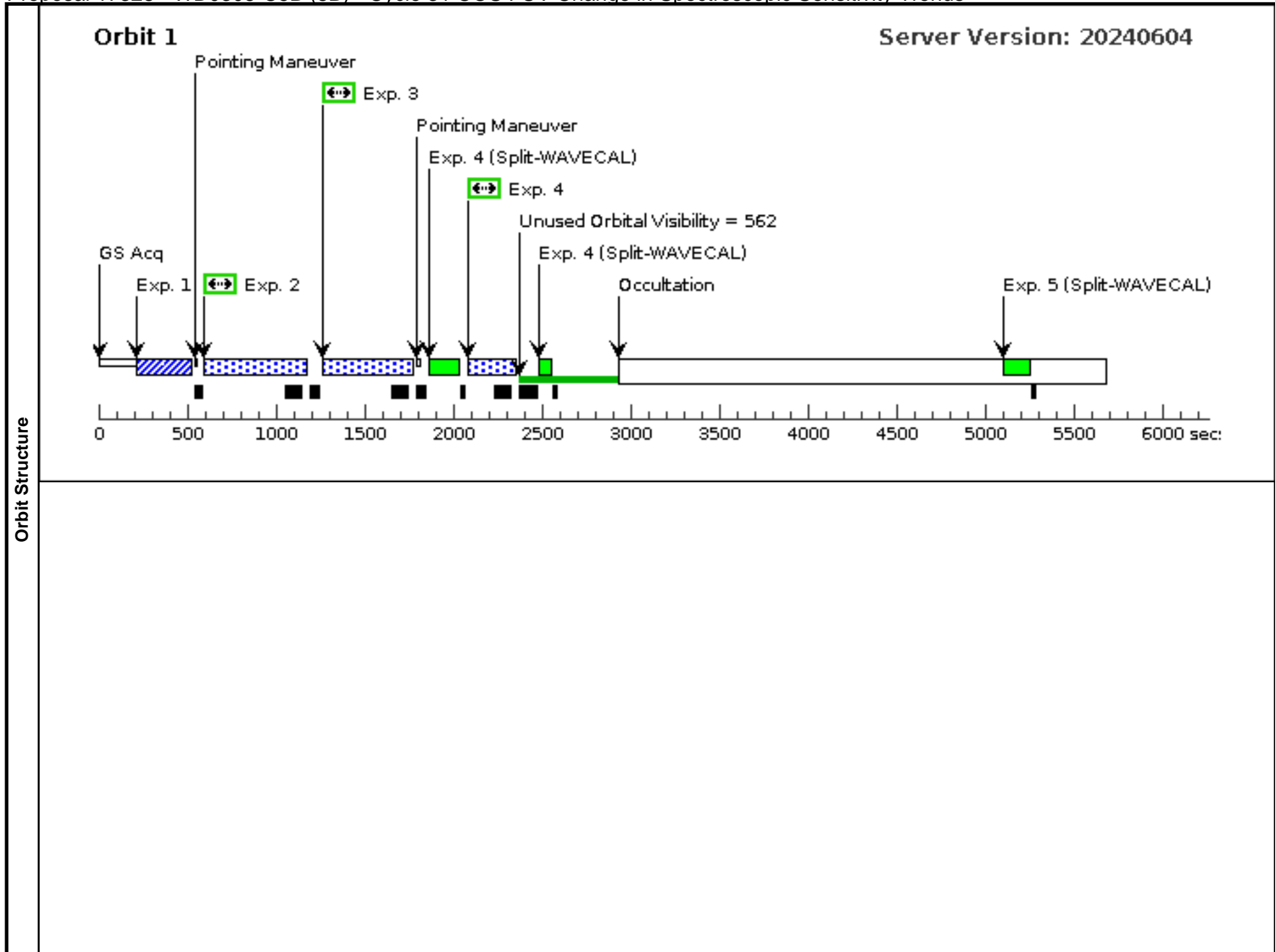
Visit	<p>Proposal 17328, WD0308-C5B (8B), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 10-JUL-2024:00:00:00 AND 24-JUL-2024:00:00:00</p> <p><i>Comments: 1611 & 1623 LP4</i></p>																
Diagnostics	<p>(WD0308-C5B (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.</p>																
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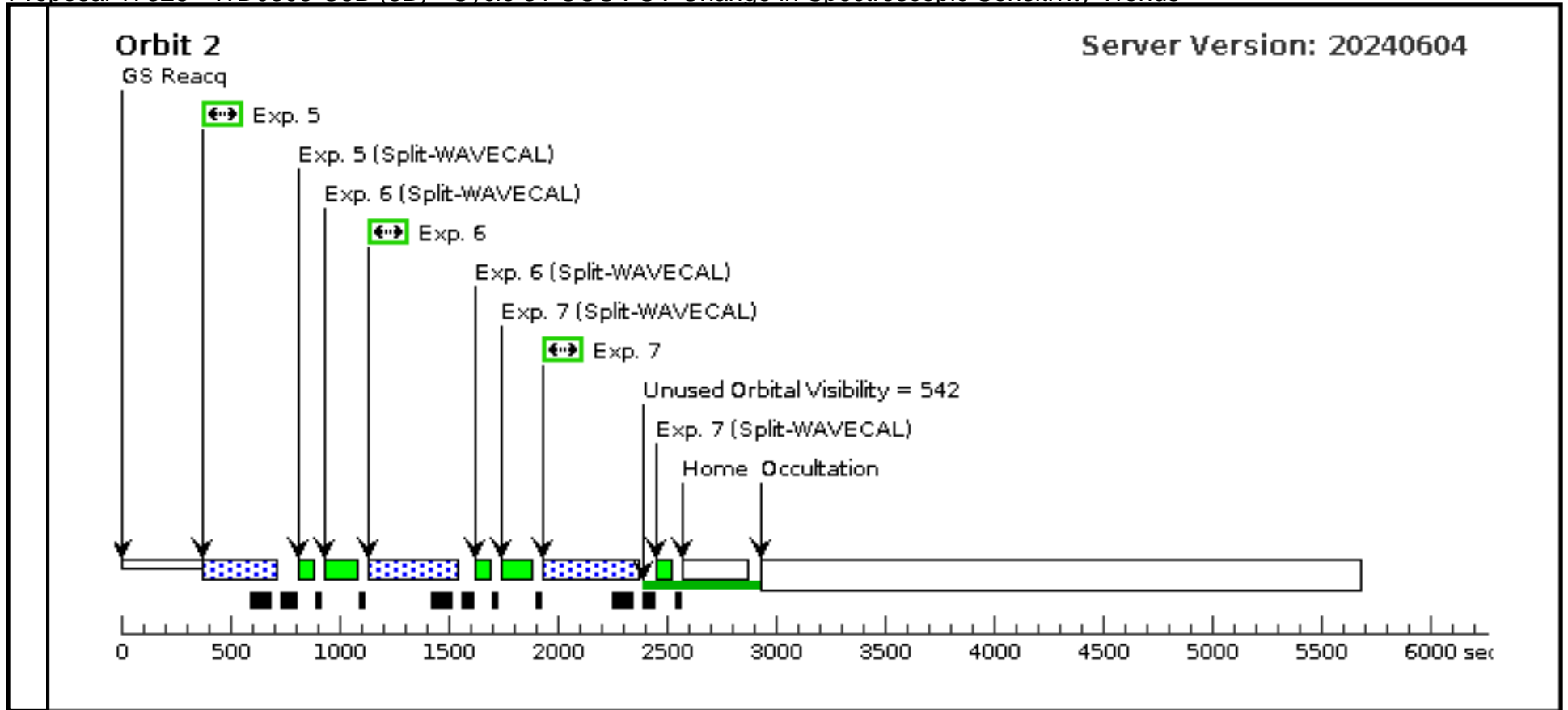
Proposal 17328 - WD0308-C5B (8B) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

#	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/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>									
	3	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>									
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 17328 - WD0308-C5B (8B) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

7	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>							





Proposal 17328 - WD0308-SEP (9A) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

Fri Aug 23 12:00:46 GMT 2024

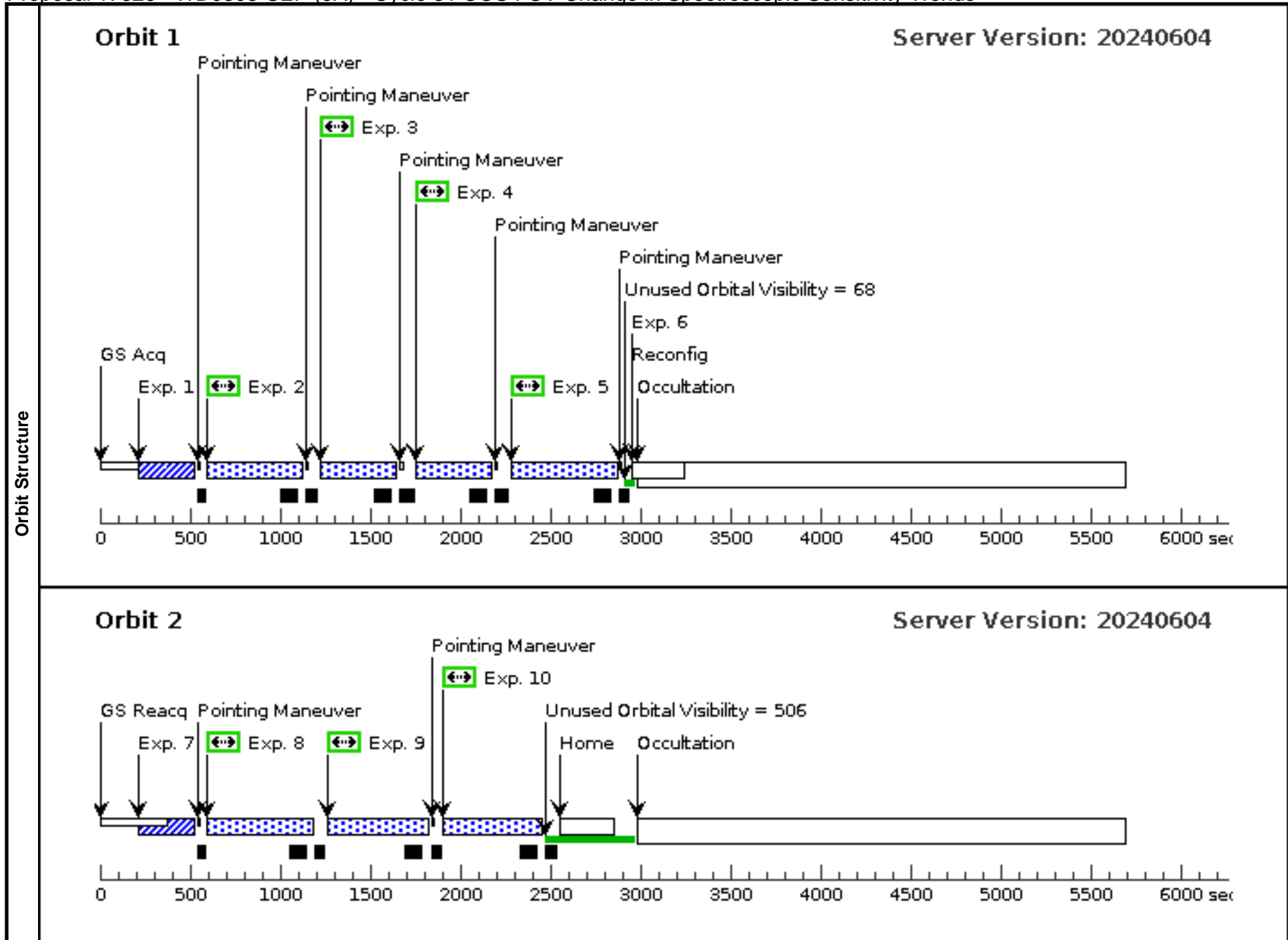
Visit	Proposal 17328, WD0308-SEP (9A), pi Diagnostic Status: Warning Scientific Instruments: S/C, COS/FUV, COS/NUV Special Requirements: GYRO MODE 1G; SCHED 90%; BETWEEN 01-SEP-2024:00:00:00 AND 30-SEP-2024:00:00:00																
	(WD0308-SEP (9A)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave.																
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 17328 - WD0308-SEP (9A) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (1925399)	(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.192 5738)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=21 1; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2			321 Secs (321 Secs) [==>]	[1]
	<p>Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update. ----- Cycle 32 comment: exposure time updated following blue modes TDS and FLUXTAB update. ETC buffer time is 1334 sec Set buffer time = exptime - 110 sec</p>									
	3	G130M/122 2/LP4 (COS.sp.192 5740)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=15 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			268 Secs (268 Secs) [==>]	[1]
	<p>Comments: ETC buffer time is 421 sec. Set buffer time = exptime - 110 sec</p>									
	4	G130M/129 1/LP5 (COS.sp.192 5741)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=16 6; FP-POS=3; LIFETIME-POS=L P5; SEGMENT=BOTH			276 Secs (276 Secs) [==>]	[1]
<p>Comments: ETC buffer time is 366 sec. Set buffer time = exptime - 110 sec</p>										
5	G140L/1280 /LP3 (COS.sp.192 5742)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=25 9; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			369 Secs (369 Secs) [==>]	[1]	
<p>Comments: Cycle 30 comment: exposure time updated following FLUXTAB update. ETC buffer time is 554 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 (1925405)	(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 17328 - WD0308-SEP (9A) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

8	G140L/800/ FUVA/LP3 (COS.sp.192 5748)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	373 Secs (373 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 396 sec. Set buffer time = exptime - 110 sec</p>							
9	G140L/1105/ /FUVA/LP3 (COS.sp.192 5749)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=30 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	413 Secs (413 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 408 sec. Set buffer time = exptime - 110 sec</p>							
10	G130M/132 7/FUVA/LP 5 (COS.sp.192 5750)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=20 4; FP-POS=3; LIFETIME-POS=L P5; SEGMENT=A	314 Secs (314 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 362 sec. set buffer time = exptime - 110 sec</p>							



Proposal 17328 - WD1057-SEP (9B) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

Fri Aug 23 12:00:46 GMT 2024

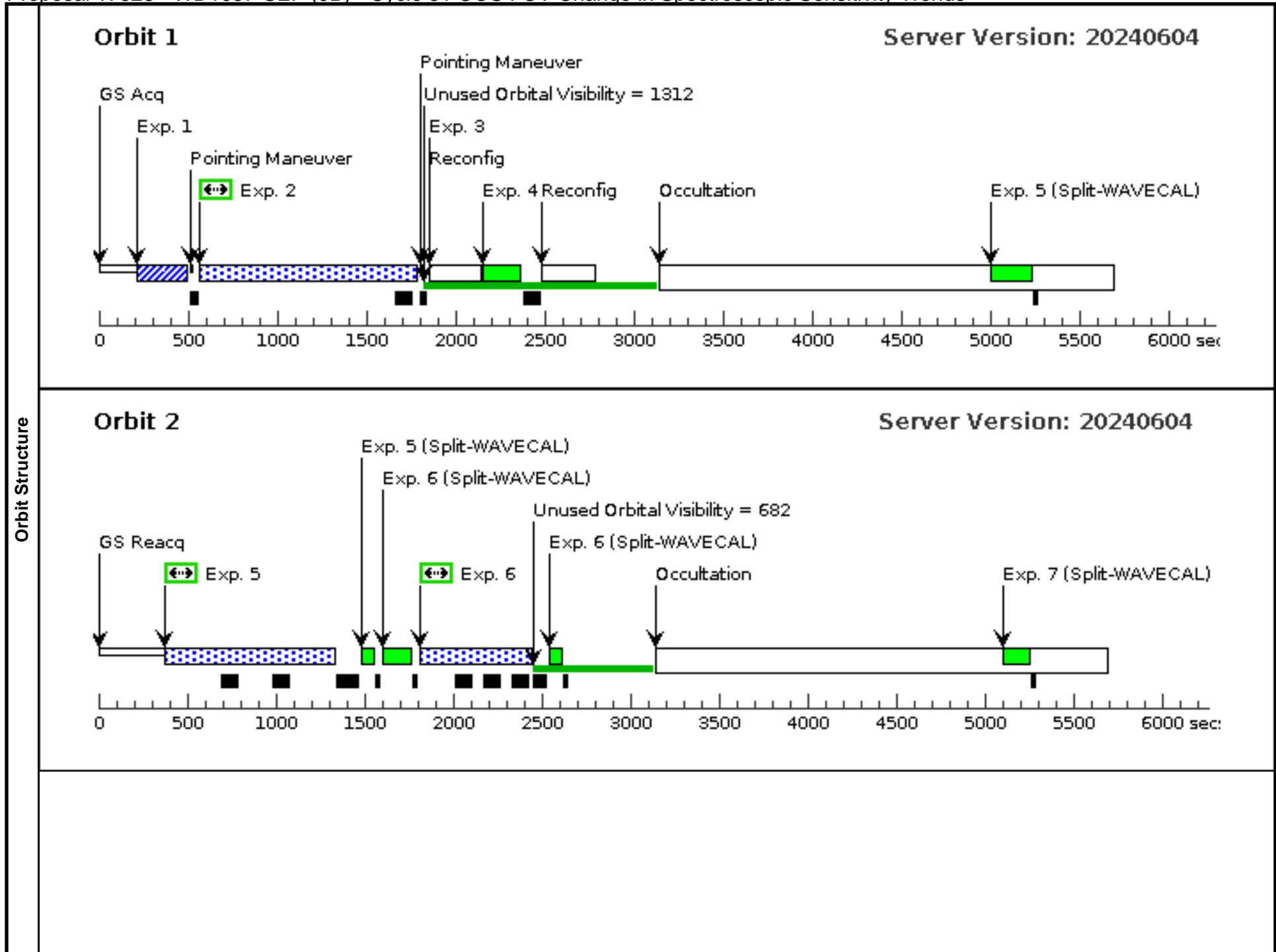
Visit	<p>Proposal 17328, WD1057-SEP (9B), pi</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: GYRO MODE 1G; SCHED 80%; BETWEEN 01-SEP-2024:00:00:00 AND 30-SEP-2024:00:00:00</p> <p><i>Comments: exposure 4: GO wavecal to calculate the OSM 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 = BOTH</i></p> <p><i>1533 & 1577 LP4</i></p> <p><i>In Cycle 32, HST went into reduced gyro mode and made GD71 unscheduable for most of the year until September. Due to this, target WD1057+719 has been exchanged for GD71.</i></p>																	
	<p>(WD1057-SEP (9B)) 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.</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>(3)</td> <td>WD1057+719</td> <td>RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000</td> <td>Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000.0</td> <td>V=14.68</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: HST FASTEX standard</i></p> <p><i>PM, coords from USNOB</i></p> <p><i>GSC2 coords are 11:00:34.25, 71:38:02.97, 1997.19 epoch</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	(3)	WD1057+719	RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000	Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000.0	V=14.68	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(3)	WD1057+719	RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000	Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000.0	V=14.68	Reference Frame: ICRS													

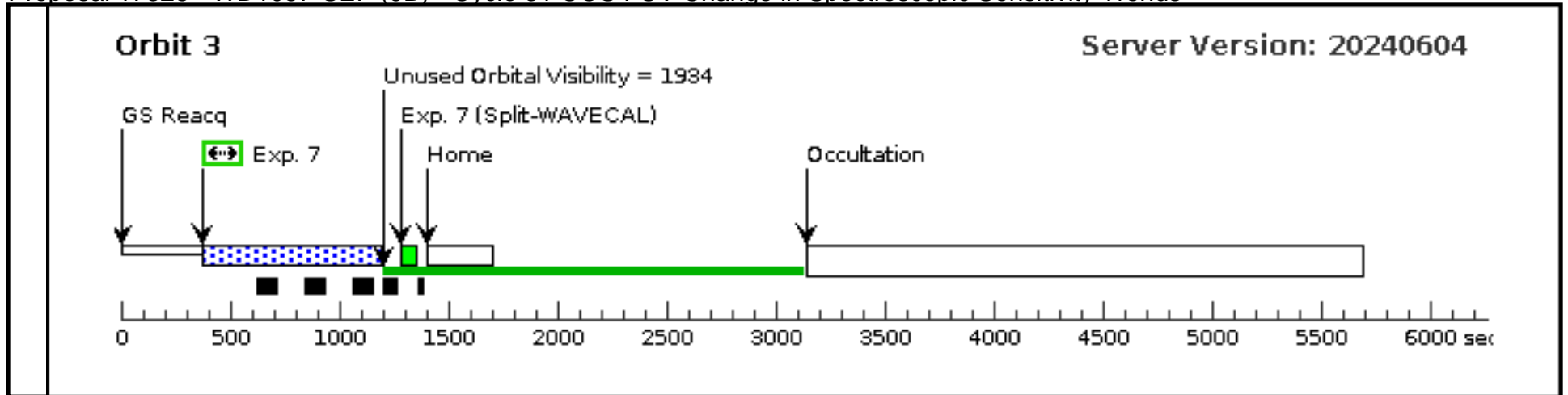
Proposal 17328 - WD1057-SEP (9B) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

#	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.192 5424)	(3) WD1057+719	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				30 Secs (30 Secs) [==>]	[1]
<p>Comments: Exptime for S/N of 55 is 27 seconds.</p> <p>In cycle 32, we replaced GD71 with WD1057+719 due to HST going into reduced gyro mode. The original exptime for S/N of 55 for GD71 was 90 seconds, so we use 30 seconds to achieve the same S/N as before.</p>									
2	G130M/109 6/FUVB/LP 2 (COS.sp.192 5751)	(3) WD1057+719	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=90 4; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			1014 Secs (1014 Secs) [==>]	[1]
<p>Comments: In Cycle 32, Hubble went reduced gyro mode and making GD71 unscheduable. Due to this, GD71 has been replaced with WD1057+719. WD1057+719 is dimmer than GD71 and allows the ability to observe with both segments which will reduce time used in visits. A draw back will be increased exposure time. In the TIR 2018-01, the team advises that an S/N of ~7 at 1030.00 will achieve comparable TDS data quality to the previous GD71 observations.</p> <p>FUVB only (all ETC warnings come from FUVA). The FUVB count rate is 217 cts/sec, so the buffer time is 4,294 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 6/FUVA W AVECAL/L P2	WAVE	COS/FUV, TIME-TAG, WCA	G130M 1096 A	FP-POS=3; SEGMENT=A; FLASH=NO; LIFETIME-POS=L P2			160 Secs (160 Secs) [==>]	[1]
<p>Comments: Cycle 28: the exposure time has been updated to 160 seconds. This was determined after characterizing the decrease by about 12 percent in the summed count-rate with time over the period between December 2017 and April 2020.</p>									
5	G160M/162 3/LP6 (COS.sp.192 5754)	(3) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=28 5; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P6			909 Secs (909 Secs) [==>]	[2]
<p>Comments: ETC Buffer fill time 427 seconds Set buffer-time = 427 * (2/3)</p>									
6	G160M/153 3/LP6 (COS.sp.192 5752)	(3) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=16 0; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P6			578 Secs (578 Secs) [==>]	[2]
<p>Comments: In Cycle 32, Hubble went reduced gyro mode and making GD71 unscheduable. Due to this, GD71 has been replaced with WD1057+719. WD1057+719 is dimmer than GD71 and allows the ability to observe with both segments which will reduce time used in visits.</p> <p>ETC buffer-time = 239 Set buffer-time = 239*(2/3)</p>									

Proposal 17328 - WD1057-SEP (9B) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

7	G160M/157 (3) WD1057+719 7/LP6 (COS.sp.192 5753)	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=21 6; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P6	766 Secs (766 Secs) [==>]	[3]
<p>Comments: ETC Buffer fill time 324 seconds Set buffer-time = 324 * (2/3)</p>						





Proposal 17328 - GD71-SEP (9C) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

Fri Aug 23 12:00:46 GMT 2024

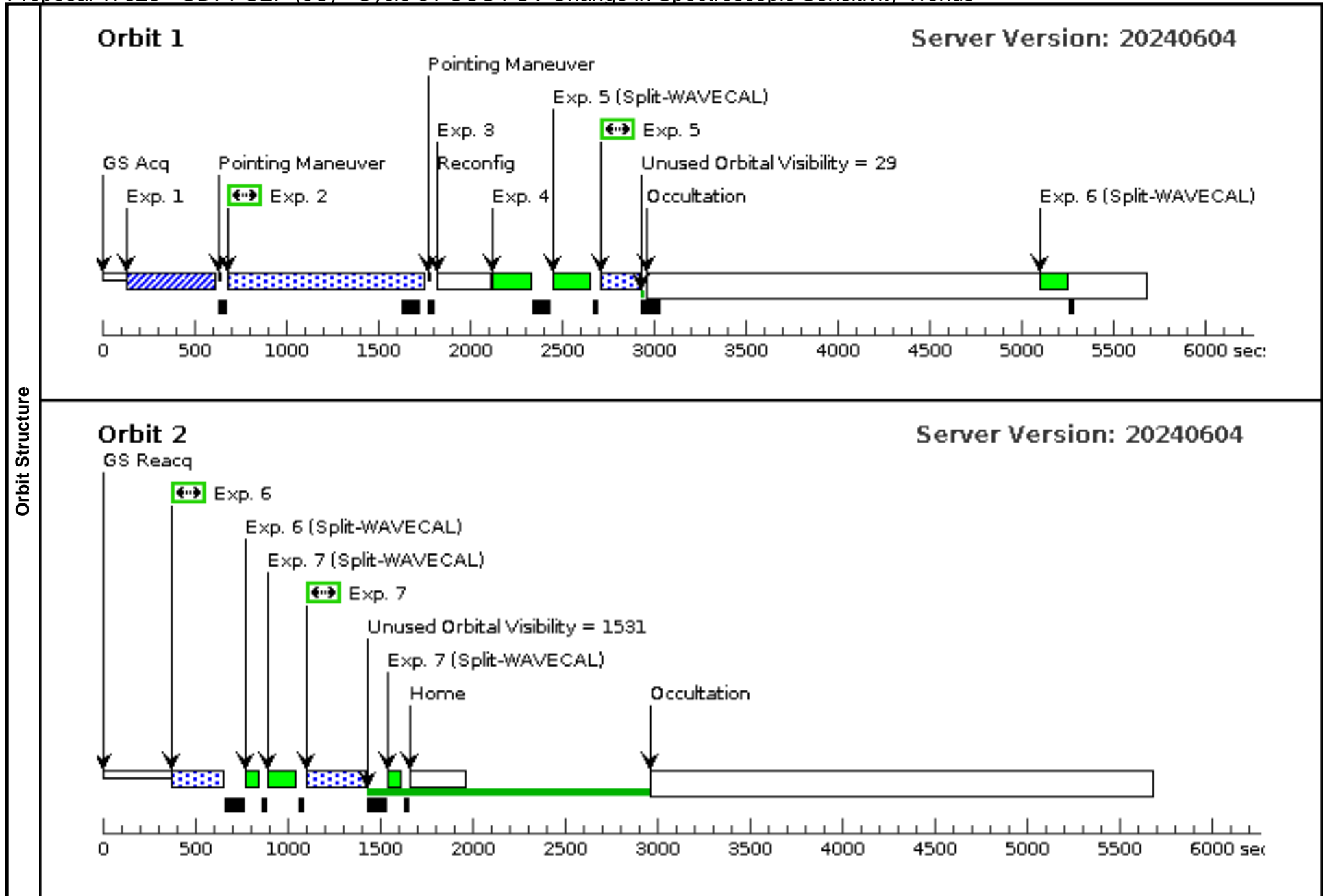
Visit	<p>Proposal 17328, GD71-SEP (9C)</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 80%; BETWEEN 10-SEP-2024:00:00:00 AND 24-SEP-2024:00:00:00</p> <p><i>Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation</i></p> <p><i>George Chapman added Exposure 3</i></p> <p><i>All G160M observations are with SEGMENT = A (i.e. segment B is turned off).</i></p>					
	<p>(GD71-SEP (9C)) 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.</p>					
Diagnosics						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	GD71	RA: 05 52 27.6200 (88.1150833d) Dec: +15 53 13.23 (15.88701d) Equinox: J2000	Proper Motion RA: 76.841 mas/yr Proper Motion Dec: -172.944 mas/yr Epoch of Position: 2000	V=13.06+/-0.01	Reference Frame: ICRS
<p><i>Comments: Co-ordinates and proper motions updated with values from SIMBAD, which uses the GAIA DR2 catalog. Differences from previous co-ordinates are in decimal places in seconds of time and arcsec, within the stated errors.</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[DA]</i></p> <p><i>Extended=NO</i></p>						

Proposal 17328 - GD71-SEP (9C) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

#	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.193 4716)	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.193 4718)	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=75 2; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			862 Secs (862 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 $2.35E6/566 = 4294$ 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.193 4719)	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=16 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6			162 Secs (162 Secs) [==>]	[1]		
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 6410 cts/sec, so the buffer time is $2.35E6/6410 = 367$ sec. Set buffer-time = exptime</p>										
6	G160M/157 (2) GD71 7/FUVA/LP 6 (COS.sp.193 4721)	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=22 5; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6			225 Secs (225 Secs) [==>]	[2]		
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 4370. cts/sec, so the buffer time is $2.35E6/4370 = 539$ sec. Set buffer-time = exptime</p>										

Proposal 17328 - GD71-SEP (9C) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

7	G160M/162 (2) GD71 3/FUVA/LP 6 (COS.sp.193 4723)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=26 9; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6	269 Secs (269 Secs) [==>]	[2]
<p>Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 4294 cts/sec, so the buffer time is $2.35E6/4294 = 547$ sec. Set buffer-time = exptime</p>						



Proposal 17328 - WD0308-SEP (9D) - Cycle 31 COS FUV Change in Spectroscopic Sensitivity Trends

Fri Aug 23 12:00:46 GMT 2024

Visit	Proposal 17328, WD0308-SEP (9D) Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%; BETWEEN 10-SEP-2024:00:00:00 AND 24-SEP-2024:00:00:00 Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off). 1533 & 1577																																																																																																			
	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> 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										#	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																																																																																															
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ACQ/IM (839564)</td> <td>(1) WD0308-565</td> <td>COS/NUV, ACQ/IMAGE, BOA</td> <td>MIRRORA</td> <td></td> <td></td> <td></td> <td>45 Secs (45 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"> 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. </td> </tr> <tr> <td>2</td> <td>G160M/153 3/B/LP6 (COS.sp.145 7649)</td> <td>(1) WD0308-565</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1533 A</td> <td>FP-POS=3; BUFFER-TIME=11 3; LIFETIME-POS=L P6; SEGMENT=B</td> <td></td> <td></td> <td>223 Secs (247 Secs) [==>247.0 Secs]</td> <td>[1]</td> </tr> <tr> <td colspan="10"> Comments: ETC buffer time is 502 sec. Set buffer time = exptime - 110 sec. </td> </tr> <tr> <td>3</td> <td>G160M/157 7/B/LP6 (COS.sp.154 0036)</td> <td>(1) WD0308-565</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1577 A</td> <td>FP-POS=3; BUFFER-TIME=18 1; LIFETIME-POS=L P6; SEGMENT=B</td> <td></td> <td></td> <td>291 Secs (315 Secs) [==>315.0 Secs]</td> <td>[1]</td> </tr> <tr> <td colspan="10"> Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec. </td> </tr> <tr> <td>4</td> <td>G160M/162 3/B/LP6 (COS.sp.154 0050)</td> <td>(1) WD0308-565</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1623 A</td> <td>FP-POS=3; BUFFER-TIME=27 8; LIFETIME-POS=L P6; SEGMENT=B</td> <td></td> <td></td> <td>388 Secs (412 Secs) [==>412.0 Secs]</td> <td>[1]</td> </tr> <tr> <td colspan="10"> Comments: ETC buffer time is 814 sec. Set buffer time = exptime - 110 sec. </td> </tr> </tbody> </table>										#	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]	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.										2	G160M/153 3/B/LP6 (COS.sp.145 7649)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=11 3; LIFETIME-POS=L P6; SEGMENT=B			223 Secs (247 Secs) [==>247.0 Secs]	[1]	Comments: ETC buffer time is 502 sec. Set buffer time = exptime - 110 sec.										3	G160M/157 7/B/LP6 (COS.sp.154 0036)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=18 1; LIFETIME-POS=L P6; SEGMENT=B			291 Secs (315 Secs) [==>315.0 Secs]	[1]	Comments: ETC buffer time is 644 sec. Set buffer time = exptime - 110 sec.										4	G160M/162 3/B/LP6 (COS.sp.154 0050)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=27 8; LIFETIME-POS=L P6; SEGMENT=B			388 Secs (412 Secs) [==>412.0 Secs]	[1]	Comments: ETC buffer time is 814 sec. Set buffer time = exptime - 110 sec.									
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