Proposal 17251 (STScI Edit Number: 0, Created: Tuesday, June 13, 2023 at 12:00:53 PM Eastern Standard Time) - Overview



17251 - Cycle 30 COS FUV Change in Spectroscopic Sensitivity Trends

Cycle: 30, Proposal Category: CAL/COS (Availability Mode: RESTRICTED)

INVESTIGATORS

Name	Institution
Dr. Kate Rowlands (PI) (ESA Member) (Contact)	Space Telescope Science Institute - ESA - JWST
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VISITS

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
1A	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	13-Jun-2023 13:00:20.0	yes
1B	(1) WD0308-565	COS/FUV COS/NUV	2	13-Jun-2023 13:00:23.0	yes
02	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	13-Jun-2023 13:00:25.0	yes
3A	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	13-Jun-2023 13:00:27.0	yes

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
3B	(1) WD0308-565	COS/FUV COS/NUV	2	13-Jun-2023 13:00:29.0	yes
04	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	13-Jun-2023 13:00:32.0	yes
5A	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	13-Jun-2023 13:00:33.0	yes
5B	(1) WD0308-565	COS/FUV COS/NUV	2	13-Jun-2023 13:00:36.0	yes
06	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	13-Jun-2023 13:00:38.0	yes
7A	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	13-Jun-2023 13:00:40.0	yes
7B	(1) WD0308-565	COS/FUV COS/NUV	2	13-Jun-2023 13:00:42.0	yes
8A	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	13-Jun-2023 13:00:44.0	yes
8B	(1) WD0308-565	COS/FUV COS/NUV	2	13-Jun-2023 13:00:46.0	yes
09	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	13-Jun-2023 13:00:48.0	yes
10	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	13-Jun-2023 13:00:50.0	yes

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Visit	Targets used in Visit	Configurations used in Visit	Orbits Used		OP Current with Visit?
11	(1) WD0308-565	COS/FUV COS/NUV	2	13-Jun-2023 13:00:52.0	yes

32 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 30. 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 contigency 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, G130M/1327/FUVA, G140L/800/FUVA, G140L/1105/FUVA, Proposal 17251 (STScI Edit Number: 0, Created: Tuesday, June 13, 2023 at 12:00:53 PM Eastern Standard Time) - Overview G140L/1280,

a 2 orbit visit (target WD0308-565) that covers G160M/1533/FUVB G160M/1577/FUVB, G160M/1611/FUVB, G160M/1623/FUVB,

and a 2 orbit visit (target GD71) that covers G130M/1096/FUVB, G160M/1533/FUVA, G160M/1577/FUVA, G160M/1611/FUVA, G160M/1623/FUVA.

These comprise the shortest and longest central wavelengths of the normal modes with each grating. Additionally, G130M/1055, and 1096 (the blue modes) and G130M/1291 are included. Also included is G160M/1577, which used to be the shortest cenwave before the introduction of G160M/1533 in Cycle 26. The G130M 1291 and 1327 observations will be done at LP5, G140L observations will be done at LP3, G130M/1222 observations will be done at LP4, G160M observations will be done at LP6, and G130M/1055 and G130M/1096 will be done at LP2.

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

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

SNR requirements:

- The general requirement is for an SNR of 15 per resel at the wavelength of least sensitivity for the standard modes, and SNR of 15 per resel beyond some minimum wavelength for the blue modes and c1222. The G140L/800 and 1280 modes have slightly different criteria, to provide SNR of $>\sim 5$

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- The aim is to obtaine 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 FUVA 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 FUVA)
1130 Ang for c1222 (lies on FUVB)

Time constraints:

- Complete monitoring sequence should occur every 2 months starting in December 2022.

- GD71 is unschedulable May-July, and therefore that sequence will consist of only one visit.

The exposure times and organization of visits follows the scheme used in Cycle 29, with the exception of the exposure times for cenwaves 1096 and 1280, which have been updated to reflect the most recent exposure times following updates to the FLUXTAB. As in Cycle 28, for all but four sets of the WD0308-565 observations using G160M, the specifications now are SEGMENT=B (i.e. segment A is turned off). One exception is the June sequence (visit 7A, 7B) for which the specifications are SEGMENT=BOTH for these modes, because GD71 is not available during this period. Additionally three other exceptions exist in Cycle 30 to support a Cycle 30 CO program which requires monitoring of G160M/1533 and 1577 at both LP6 and LP4 using both segements.

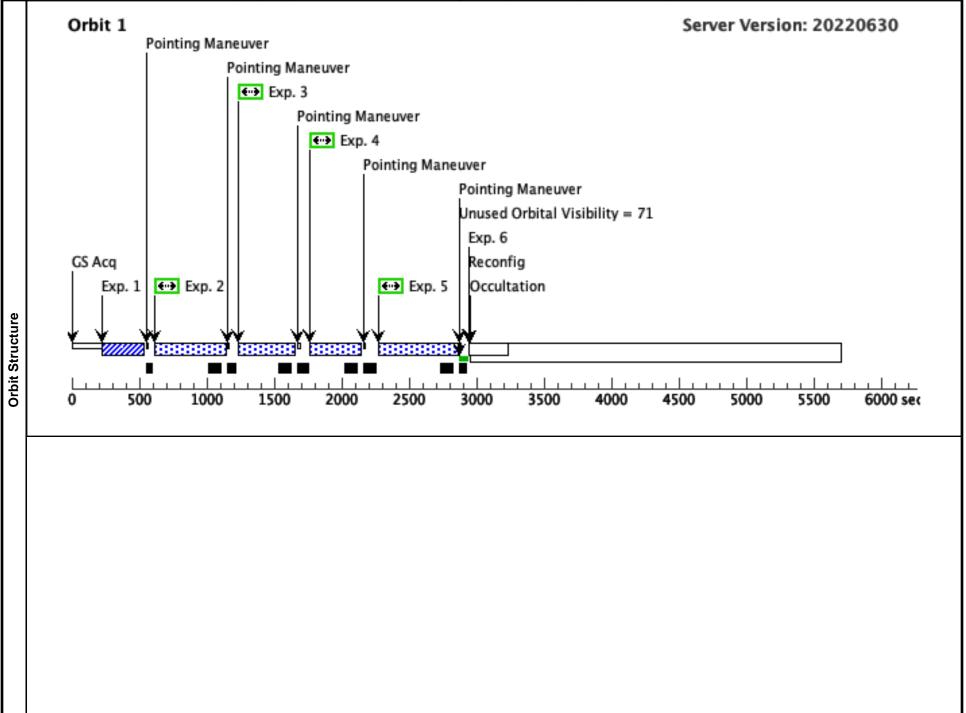
In Cycle 29, an additional NUV ACQ/IMAGE was added at the beginning of the second orbit of the 2 orbit WD0308-565 visits to protect against guide star reaquisition failures, which this particular target is prone to.

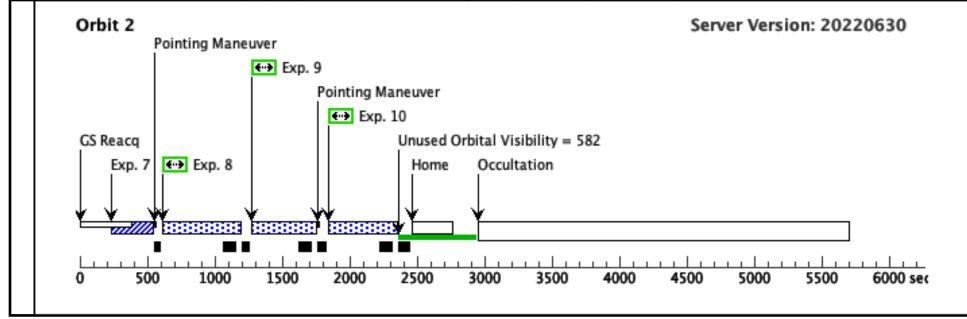
Proposal 17251 (STScl Edit Number: 0, Created: Tuesday, June 13, 2023 at 12:00:53 PM Eastern Standard Time) - Overview In Cycle 30, the WD0308-565 visit was split into 2x2 orbits to ease scheduling, avoiding 4 orbit visits.

	Proposal 17251, WD0308-C1A	(1A), implementation			Tue Jun 13 17:00:53 GMT 2023				
<u>.</u>	Diagnostic Status: Warning								
/is	Scientific Instruments: S/C, COS/FUV, COS/NUV								
1	Special Requirements: SCHED 100%								
	Comments: All G160M observati	ons are with SEGMENT = B (i.e. segment A is tu	rned off).						
Diagnostics	(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. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.								
	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
rgets	(1) WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 149.241 mas/yr	V=14.07+/-0.02	Reference Frame: ICRS				
l õ		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr						
Tal		Equinox: J2000	Epoch of Position: 2000						
Fixed	Comments: Coordinates carried Proper motions changed to mas/y Category=STAR Description=[DB] Extended=NO	over from Cycle 25 proposal, checked against SII yr, from SIMBAD, also using the GAIA DR2 catal	MBAD, which uses the GAIA DR2 catalog. log.						

	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
		(839564)							[==>]	[1]
	Con Cyci	iments: cycle 2 le 28 comment:	4 comment: exposure we continue to use t	e times not reduced following updated I he same exposure time since difference	ETC calculations, a es do not affect orb	lifferences not enough to it request.	affect orbit requested.			
	2		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=20			318 Secs (318 Secs)	
		5/LP2 (COS.sp.154			1055 A	8; ED DOS-2:			[==>]	
		0024) ¹				FP-POS=3; SEGMENT=BOTH;				[1]
						LIFETIME-POS=L				[1]
						P2				
	Con	ments: Cycle 2	29 comment: exposur	e time updated following blue modes T	DS and FLUXTAB	update.				
		C buffer time is buffer time = e.	1377 sec xptime - 110 sec							<u> </u>
	3		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=15			267 Secs (267 Secs)	
		2/LP4 (COS.sp.145			1222 A	7; FP-POS=3;			[==>]	
		7646)				LIFETIME-POS=L				[1]
						P4;				[1]
						SEGMENT=BOTH				
s			ıffer time is 392 sec. xptime - 110 sec							
Exposures	4	G130M/129 1/LP5	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=12			236 Secs (236 Secs)	
osi		(COS.sp.145			1291 A	6; FP-POS=3;			[==>]	
x		7647)				LIFETIME-POS=L				[1]
ш						P5;				,
						SEGMENT=BOTH				
			ıffer time is 323 sec. xptime - 110 sec							1
	5	G140L/1280 /LP3	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=26 1;			371 Secs (371 Secs)	-
		(COS.sp.182			1280 A	FP-POS=3;			[==>]	
		0354)				LIFETIME-POS=L				[1]
						Р3;				
						SEGMENT=BOTH				
	Con	ments: Cycle 3	30 comment: exposur	e time updated following FLUXTAB up	odate.					
		C buffer time is buffer time = e:	520 sec. xptime - 110 sec							
	6		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL		1 Secs (1 Secs)	
							OW OW		[==>]	[1]
	Com	nments: Work-a	round to efficiently s	schedule the reconfiguration to SEG-A.	Eliminates SPSS	induced gaps.				
	7	ACQ/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
		(839564)							[==>]	[2]
				e times not reduced following updated l he same exposure time since difference			affect orbit requested.			

8 G140L/800/ (1) WD0308-565 FUVA/LP3 (COS.sp.145 7778)		G140L 800 A	BUFFER-TIME=25 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	367 Secs (367 Secs) [==>]	[2]
Comments: ETC buffer time is 350 se Set buffer time = exptime - 110 sec	с.				
9 G140L/1105 (1) WD0308-565 /FUVA/LP3 (COS.sp.145 7846)	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	332 Secs (332 Secs) [==>]	[2]
Comments: ETC buffer time is 358 se Set buffer time = exptime - 110 sec	с.				
10 G130M/132 (1) WD0308-565 7/FUVA/LP 5 (COS.sp.145 7657) Comments: ETC buffer time is 324 se set buffer time = exptime - 110 sec		G130M 1327 A	BUFFER-TIME=16 4; FP-POS=3; LIFETIME-POS=L P5; SEGMENT=A	274 Secs (274 Secs) [==>]	[2]

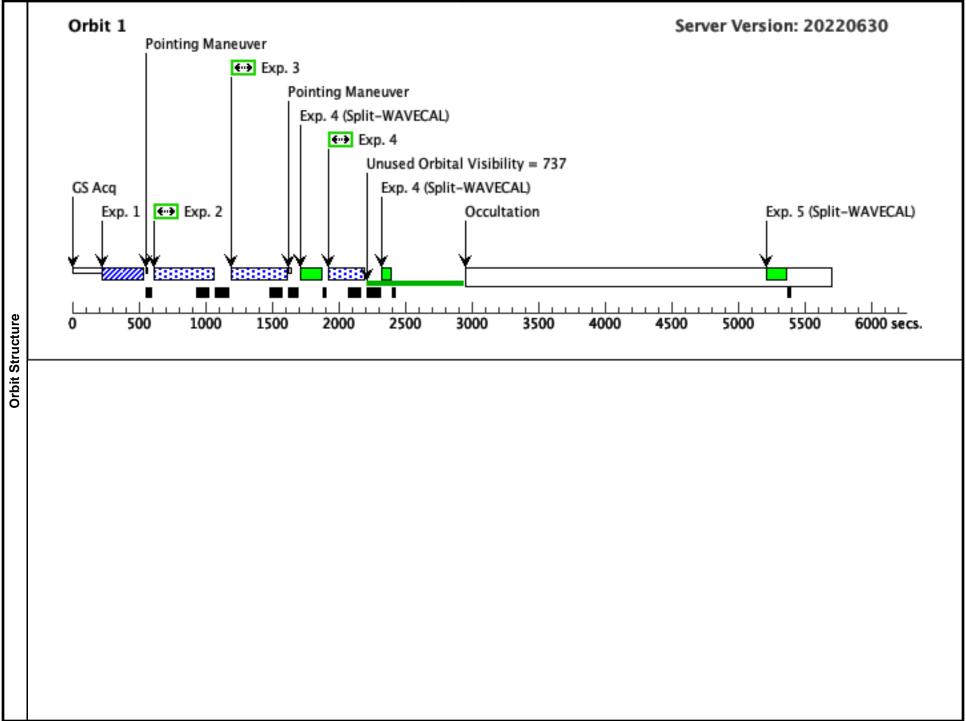


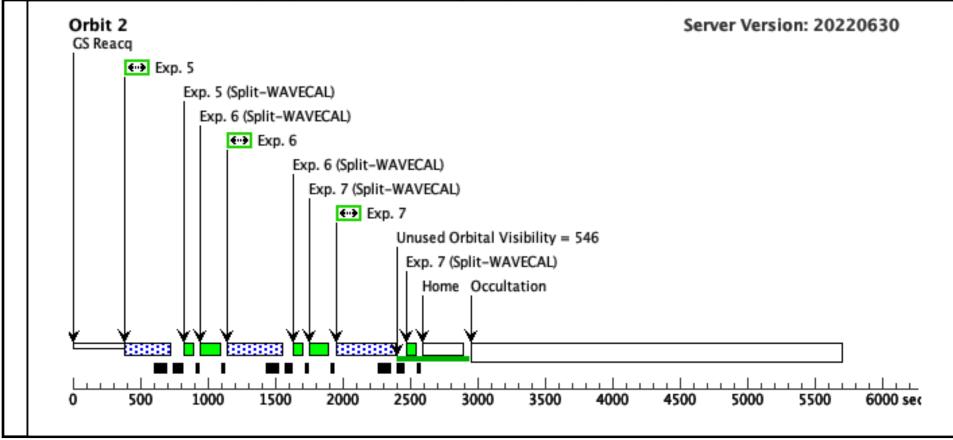


	Proposal 17251, WD0308-C1B	(1B), implementation			Tue Jun 13 17:00:53 GMT 2023				
	Diagnostic Status: Warning								
Visit	Scientific Instruments: COS/FU								
	Special Requirements: SCHED	Special Requirements: SCHED 100%							
	Comments: All G160M observat	ions are with SEGMENT = B (i.e. segment A is tu	rned off).						
	1533 & 1577 LP4								
ostics	that may apply to observations w		quired to use an iour i'r-rOS positions when obser	i ving at a given COS cenwave.	See the COS Instrument Handbook for exceptions				
Diagno									
iagn	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
Diagn	# Name (1) WD0308-565	Target Coordinates RA: 03 09 47.9200 (47.44966667d)	Targ. Coord. Corrections Proper Motion RA: 149.241 mas/yr	Fluxes V=14.07+/-0.02	Miscellaneous Reference Frame: ICRS				
ets Diagn									
Diagn		RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 149.241 mas/yr						

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit			
1	ACQ/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)				
	(839564)							[==>]	[1]			
Сог Сус	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		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			223 Secs (223 Secs)				
	3/B/LP4 (COS.sp.145 7649)			1533 A	BUFFER-TIME=11 3;	l		[==>]				
	7047)				LIFETIME-POS=L P4;				[1]			
					SEGMENT=B							
Cor Set	nments: ETC b buffer time = e	uffer time is 502 sec. xptime - 110 sec.										
3		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			291 Secs (291 Secs)				
	7/B/LP4 (COS.sp.154			1577 A	BUFFER-TIME=18 1;	3		[==>]				
	0036)				LIFETIME-POS=L P4;				[1]			
					SEGMENT=B							
Cor Set	nments: ETC b buffer time = e	uffer time is 644 sec. xptime - 110 sec										
4		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			223 Secs (223 Secs)				
	3/B/LP6 (COS.sp.145 7649)			1533 A	BUFFER-TIME=11 3;	l		[==>]				
1	7049)				LIFETIME-POS=L P6;				[1]			
					SEGMENT=B							
Cor Set	nments: ETC b buffer time = e	uffer time is 502 sec. xptime - 110 sec.										
5		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			291 Secs (291 Secs)				
	7/B/LP6 (COS.sp.154			1577 A	BUFFER-TIME=18 1;	3		[==>]				
	0036)				LIFETIME-POS=L				[2]			
					P6;							
C	mmonter ETC 1	uffor time in 611 are			SEGMENT=B				1			
Set	buffer time = e	uffer time is 644 sec. xptime - 110 sec										
6		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			360 Secs (360 Secs)				
	1/B/LP6 (COS.sp.154			1611 A	BUFFER-TIME=25 0;	5		[==>]				
	0046)				LIFETIME-POS=L				[2]			
					P6;				2-1			
					SEGMENT=B							
Cor Set	nments: ETC b buffer time = e	uffer time is 755 sec. xptime - 110 sec										

G160M/162 (1) WD0308-565	D0308-565 COS/FUV, TIME-TAG, PSA	AG, PSA G160M	FP-POS=3;	388 Secs (388 Secs)	
3/B/LP6 (COS.sp.154 0050)		1623 A	BUFFER-TIME=27 8;	[==>]	
0000)			LIFETIME-POS=L P6;		[2]
			SEGMENT=B		
Comments: ETC buffer time is 814 sec. et buffer time = exptime - 110 sec					

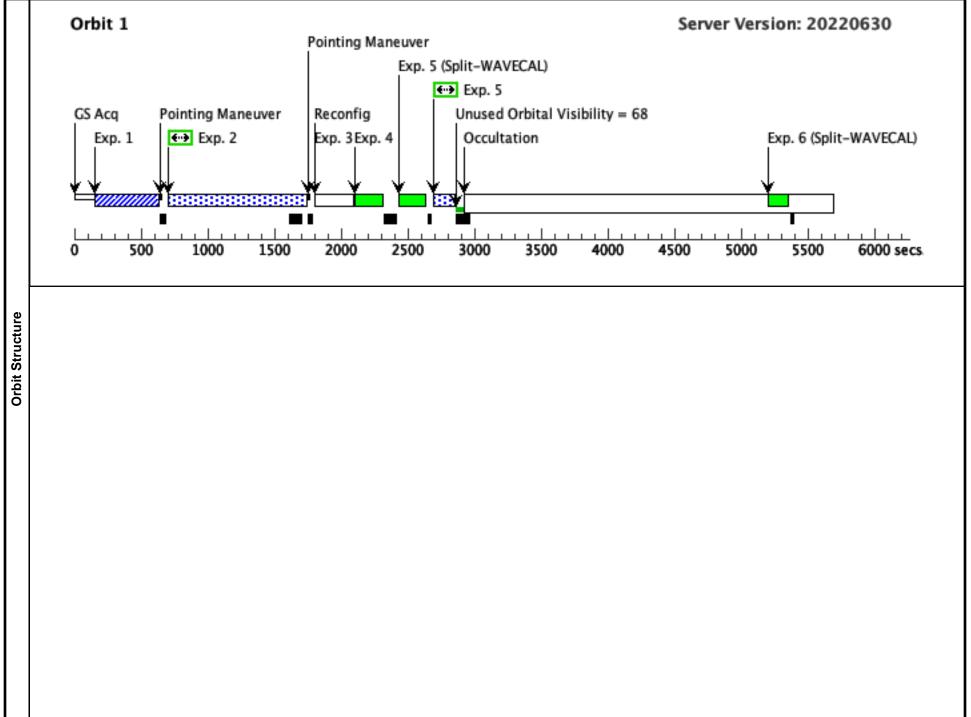


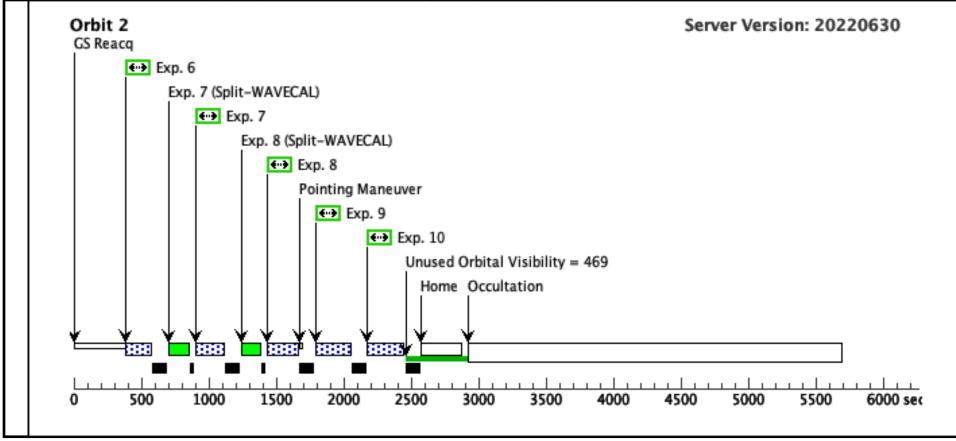


	Proposal 17251, GD71-C1 (0	2), implementation			Tue Jun 13 17:00:53 GMT 2023				
	Diagnostic Status: Warning								
isit	Scientific Instruments: S/C, COS/FUV, COS/NUV								
	Special Requirements: SCHED 100%								
>	George Chapman added Expo.	omments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation eorge Chapman added Exposure 3 Il G160M observations are with SEGMENT = A (i.e. segment B is turned off).							
	1533 & 1577 LP4								
Diagnostics	apply to observations with G1:	30M/1291 or G160M.		-	he COS Instrument Handbook for exceptions that may				
	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
argets	(2) GD71	RA: 05 52 27.6200 (88.1150833d)	Proper Motion RA: 76.841 mas/yr	V=13.06+/-0.01	Reference Frame: ICRS				
l õ		Dec: +15 53 13.23 (15.88701d)	Proper Motion Dec: -172.944 mas/yr						
– ⊢ a		Equinox: J2000	Epoch of Position: 2000						
Fixed	Comments: Co-ordinates and [Differences from previous co-o Category=STAR Description=[DA] Extended=NO	proper motions updated with values from SIMBAD, ordinates are in decimal places in seconds of time ar	which uses the GAIA DR2 catalog. ad arcsec, within the stated errors.						

#		Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		(ETC Run)	Tunger		Specia Lisi	opuruman	Special requi	oroups		
1		ACQ/IM (COS.ta.839	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs)	
		(COS.ta.859 574)							[==>]	[1]
Ċ	Com Cycl	nments: Exptim le 28 comment:	e for S/N of 60 we continue to	is 105.5 sec, using 90 sec leads to S/N of 55 use the same exposure time since difference	es do not affect orb	it request.				
2		G130M/109	(2) GD71	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=71			829 Secs (829 Secs)	
		6/FUVB/LP 2			1096 A	9;			[==>]	
		(COS.sp.182 0351)				FP-POS=3; SEGMENT=B;				[1]
		0331)				LIFETIME-POS=L				[1]
						P2				
C	Com	ments: Cycle 3	30 comment: exp	posure time updated following FLUXTAB u	pdate.					
T	he	FUVB count re		ne from FUVA). c, so the buffer time is 2.35E6/566 = 4280 s	sec.					
3		<u></u>	DARK	S/C, DATA, NONE			QASISTATES COS	5	1 Secs (1 Secs)	
							FUV HVLOW HVI OW	_	[==>]	[1]
C	lom	ments: Work-a	round to efficie	ently schedule the SEG-B to SEG-A reconfig	uration Eliminate	s SPSS induced gaps	0			
4		G130M/109		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;			160 Secs (160 Secs)	
		6/FUVA W AVECAL/L			1096 A	SEGMENT=A;			[==>]	
ŝ		P2				FLASH=NO;				[1]
nre						LIFETIME-POS=L				[1]
				e time has been updated to 160 seconds. Th	is was determined a	P2 after characterizing the a	lecrease by about 12 p	percent in the summ	ed count-rate with time over the period bet	ween Dece
<u><u>m</u> 5</u>		r 2017 and Apr G160M/153		COS/ELIX TIME TAC DEA	G160M	BUFFER-TIME=10			106 Secs (106 Secs)	1
5		3/FUVA/LP	(2) (30/1	COS/FUV, TIME-TAG, PSA	1533 A	6;			$\frac{100 \text{ Secs}}{[100 \text{ Secs}]}$	
		6 (COS.sp.145			1555 A	FP-POS=3;			1>)	
		(COD.sp.115 7660)				SEGMENT=A;				[1]
						LIFETIME-POS=L				
0	om	monts · FIWA	only (all FTC y	varnings come from FUVB).		P6				
T	he	FUVA count re buffer-time = e.	ate is 9240 cts/s	sec, so the buffer time is $2.35E6/9240 = 254$	sec.					
6		G160M/157	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=13			135 Secs (135 Secs)	
		7/FUVA/LP 6			1577 A	5; FP-POS=3;			[==>]	
		(COS.sp.145 7661)				SEGMENT=A;				[2]
		7001)				LIFETIME-POS=L				[2]
						P6				
C	Com	ments: See Vis	sit 02 comments							

7 G160M/161 (2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=15	159 Secs (159 Secs)	
1/FUVA/LP 6 (COS.sp.154 0058)		1611 A	9; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6	[==>]	[2]
Comments: FUVA only (all ETC w The FUVA count rate is 5172 cts/s Set buffer-time = exptime	varnings come from FUVB). vec, so the buffer time is 2.35E6/5172 = 45	4 sec.			
8 G160M/162 (2) GD71 3/FUVA/LP 6 (COS.sp.145 7663)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=17 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6	177 Secs (177 Secs) [==>]	[2]
Set buffer-time = exptime	tec, so the buffer time is $2.35E6/5095 = 46$				
9 G160M/153 (2) GD71 3/FUVA/LP 4 (COS.sp.145 7660)	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 6; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	106 Secs (106 Secs) [==>]	[2]
Comments: FUVA only (all ETC w The FUVA count rate is 9240 cts/s Set buffer-time = exptime	varnings come from FUVB). sec, so the buffer time is 2.35E6/9240 = 25	4 sec.			
10 G160M/157 (2) GD71 7/FUVA/LP 4 (COS.sp.145 7661)	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=13 5; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	135 Secs (135 Secs) [==>]	[2]
Comments: FUVA only (all ETC w The FUVA count rate is 6674 cts/s Set buffer-time = exptime	varnings come from FUVB). ec, so the buffer time is 2.35E6/6674 = 35	2 sec.			

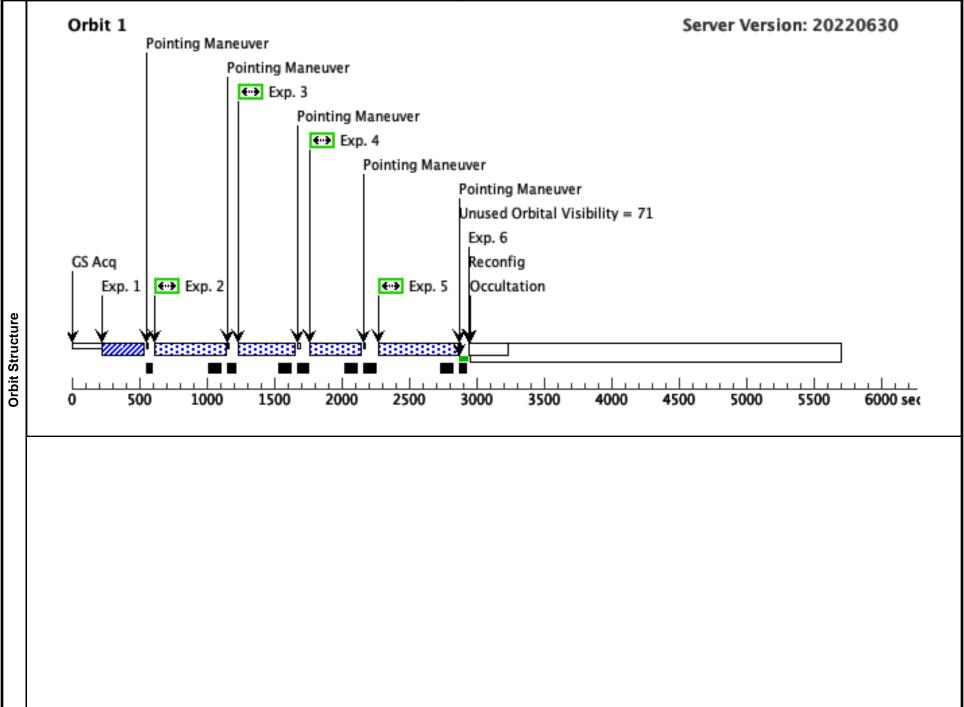


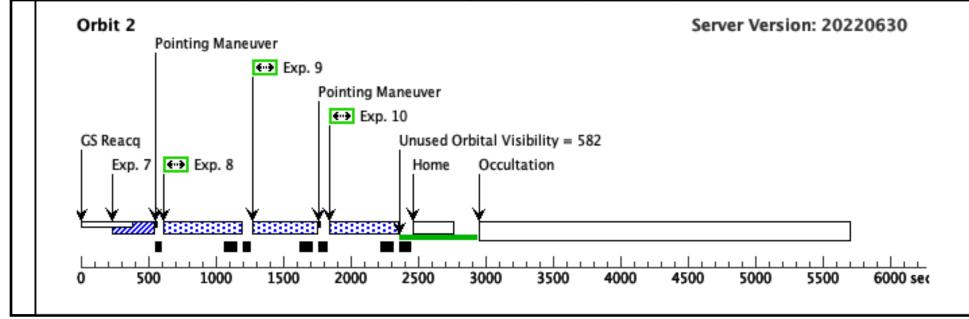


	Proposal 17251, WD0308-C2A	(3A), implementation			Tue Jun 13 17:00:54 GMT 2023
±.	Diagnostic Status: Warning				
/isi	Scientific Instruments: S/C, COS	/FUV, COS/NUV			
1	Special Requirements: SCHED 1	00%			
	Comments: All G160M observati	ons are with SEGMENT = B (i.e. segment A is tu	rned off).		
Diagnostics	that may apply to observations w	Form): For the best data quality, it is generally rec ith G130M/1291 or G160M.	quired to use all four FP-POS positions when obse	rving at a given COS cenwave.	See the COS Instrument Handbook for exceptions
	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
rgets	(1) WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 149.241 mas/yr	V=14.07+/-0.02	Reference Frame: ICRS
۳ ق		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr		
Tal		Equinox: J2000	Epoch of Position: 2000		
Fixed		over from Cycle 25 proposal, checked against SII vr, from SIMBAD, also using the GAIA DR2 catal			

	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
ļ	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
ļ	1	· · · ·							[==>]	[1]
ļ	Con Cyc	nments: cycle 2 cle 28 comment:	4 comment: exposur : we continue to use	re times not reduced following updated i the same exposure time since difference	ETC calculations, a es do not affect orb	differences not enough to nit request.	affect orbit requested.			
ļ	2		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=20			318 Secs (318 Secs)	
ļ	1	5/LP2 (COS.sp.154 0024)			1055 A	8; ED DOS-2.			[==>]	'
ļ	1	0024)				FP-POS=3; SEGMENT=BOTH:				
ļ	1					LIFETIME-POS=L	,			[1]
ļ	1					P2				
	Con	nments: Cycle 2	29 comment: exposu	ure time updated following blue modes T	DS and FLUXTAB	} update.				
		C buffer time is buffer time = e:	1377 sec xptime - 110 sec							
ļ	3		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=15			267 Secs (267 Secs)	'
ļ	1	2/LP4 (COS.sp.145			1222 A	7; FP-POS=3;			[==>]	
ļ	1	7646) ¹				LIFETIME-POS=L				[1]
	1					P4;				[+]
	1					SEGMENT=BOTH				
			uffer time is 392 sec. xptime - 110 sec							
Exposures	4		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=12			236 Secs (236 Secs)	<u> </u>
osl	1	1/LP5 (COS.sp.145			1291 A	6; FP-POS=3;			[==>]	
ğ.	1	7647)				LIFETIME-POS=L				[1]
Ш	1					P5;				1-1
	1					SEGMENT=BOTH				
			uffer time is 323 sec. xptime - 110 sec							
ļ	5	G140L/1280 /LP3	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=26			371 Secs (371 Secs)	<u> </u>
ļ	1	(COS.sp.182			1280 A	1; FP-POS=3;			[==>]	
ļ	1	0354)				LIFETIME-POS=L				[1]
ļ	1					P3;				1-3
ļ	1					SEGMENT=BOTH				
ļ	Con	nments: Cycle 3	30 comment: exposu	ure time updated following FLUXTAB up	odate.					
		C buffer time is buffer time = e:	520 sec. xptime - 110 sec							
ļ	6		DARK	S/C, DATA, NONE			QASISTATES COS		1 Secs (1 Secs)	<u> </u>
ļ	1						FUV HVLOW HVL OW		[==>]	[1]
ļ	Cor	mments: Work-a	around to efficiently	schedule the reconfiguration to SEG-A.	. Eliminates SPSS	induced gaps.				<u> </u>
ļ	7	ACQ/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
ļ	1	(839564)							[==>]	[2]
ļ	Con	mments: cycle 2	4 comment: exposur	the second se	ETC calculations,	differences not enough to	affect orbit requested.			
ļ	Cyc	le 28 comment:	: we continue to use	e the same exposure time since difference	s do not affect orb	if request.				
	1									

8 G140L/800/ (1) WD0308-56 FUVA/LP3 (COS.sp.145 7778)		G140L 800 A	BUFFER-TIME=25 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	367 Secs (367 Secs) [==>]	[2]
<i>Comments: ETC buffer time is 350</i> <i>Set buffer time = exptime - 110 sec</i>					
9 G140L/1105 (1) WD0308-56 /FUVA/LP3 (COS.sp.145 7846)	55 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]
<i>Comments: ETC buffer time is 358</i> <i>Set buffer time = exptime - 110 sec</i>					
10 G130M/132 (1) WD0308-50 7/FUVA/LP 5 (COS.sp.145 7657) Comments: ETC buffer time is 324 set buffer time = exptime - 110 sec		G130M 1327 A	BUFFER-TIME=16 4; FP-POS=3; LIFETIME-POS=L P5; SEGMENT=A	274 Secs (274 Secs) [==>]	[2]

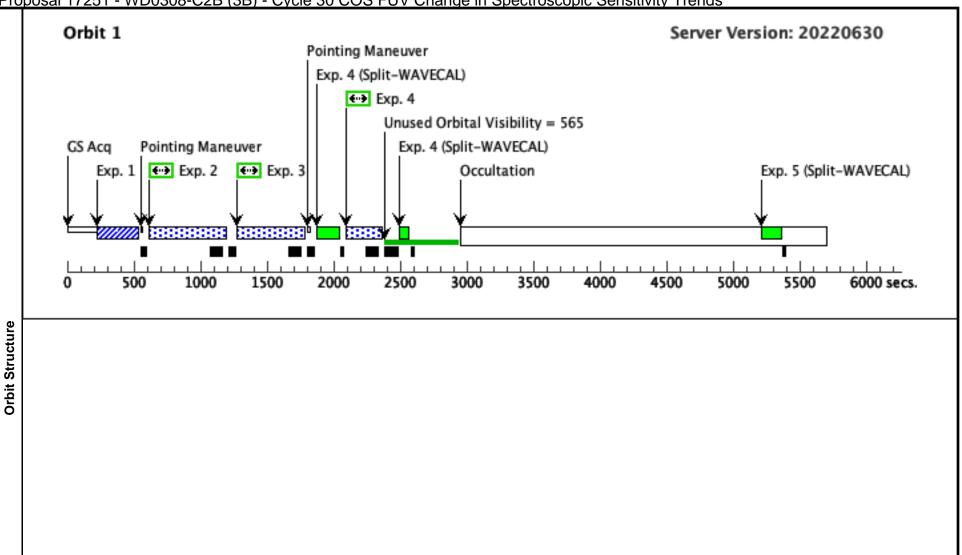


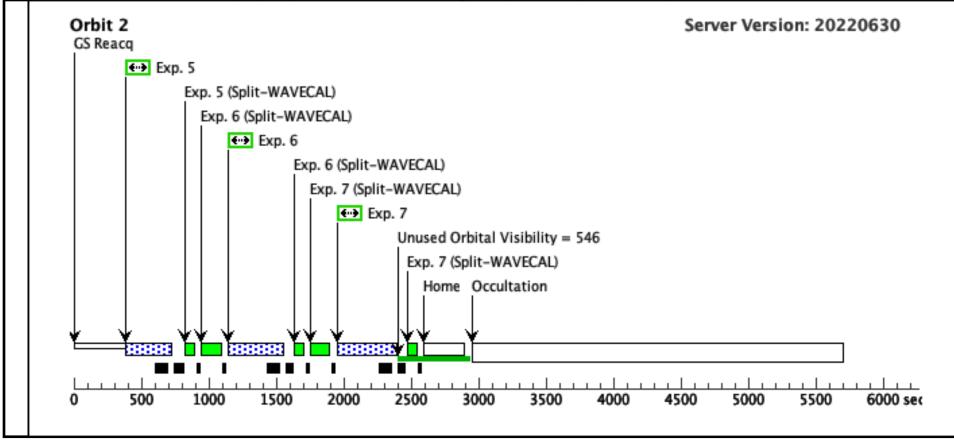


	Proposal 17251, WD0308-C2B	(3B), implementation			Tue Jun 13 17:00:54 GMT 2023
	Diagnostic Status: Warning				
sit	Scientific Instruments: COS/FU	V, COS/NUV			
Ĭ	Special Requirements: SCHED	00%			
	Comments: All G160M observat	ions are with $SEGMENT = B$ (i.e. segment A is tu	rned off).		
	1611 & 1623 LP4				
ostic	that may apply to observations w				See the COS Instrument Handbook for exceptions
Diagn					
agn	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
Diagn	# Name (1) WD0308-565	Target Coordinates RA: 03 09 47.9200 (47.44966667d)	Targ. Coord. Corrections Proper Motion RA: 149.241 mas/yr	Fluxes V=14.07+/-0.02	Miscellaneous Reference Frame: ICRS
ets Diagn		0			
Diagn		RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 149.241 mas/yr		

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit			
1	ACQ/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)				
	(839564)							[==>]	[1]			
Con Cycl	Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested. Eycle 28 comment: we continue to use the same exposure time since differences do not affect orbit request.											
2		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			360 Secs (360 Secs)				
	1/B/LP4 (COS.sp.154			1611 A	BUFFER-TIME=25			[==>]				
	(COS.sp.154 0046)			0; LIFETIME-POS=L P4;				[1]				
					SEGMENT=B							
		uffer time is 755 sec.							-			
3		xptime - 110 sec (1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			388 Secs (388 Secs)				
	3/B/LP4 (COS.sp.154			1623 A	BUFFER-TIME=27			[==>]				
	(COS.sp.154 0050)				8; LIFETIME-POS=L				[1]			
					P4; SEGMENT=B							
Con	nments: ETC b	uffer time is 814 sec.			SEGMEN I=B							
	buffer time = e	xptime - 110 sec							1			
4	G160M/153 3/B/LP6	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			223 Secs (223 Secs)				
	(COS.sp.145			1533 A	BUFFER-TIME=11 3;			[==>]				
	7649)				LIFETIME-POS=L				[1]			
					P6; SEGMENT=B							
Con	nments: ETC b	uffer time is 502 sec.			SLOWENT-D							
	buffer time = e	xptime - 110 sec.		<u></u>								
5	7/B/LP6	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=18			$\frac{291 \text{ Secs } (291 \text{ Secs})}{[==>]}$				
	(COS.sp.154 0036)			1377 A	1;			[==>]				
	0050)				LIFETIME-POS=L				[2]			
					P6;							
Con	mants. FTC b	uffer time is 644 sec.			SEGMENT=B							
Set l	buffer time = e_{i}	xptime - 110 sec										
6	G160M/161 1/B/LP6	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			360 Secs (360 Secs)				
	(COS.sp.154			1611 A	BUFFER-TIME=25 0;			[==>]				
	0046)				LIFETIME-POS=L				[2]			
					P6;				[-]			
					SEGMENT=B							
Con Set 1	nments: ETC b huffer time – e	uffer time is 755 sec. xptime - 110 sec										
5011	sujjer unie – e.	Aprille 110 sec										

G160M/162 (1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	388 Secs (388 Secs)	
3/B/LP6 (COS.sp.154 0050)		1623 A	BUFFER-TIME=27 8;	[==>]	
0000)			LIFETIME-POS=L P6;		[2]
			SEGMENT=B		
Comments: ETC buffer time is 814 sec et buffer time = exptime - 110 sec					

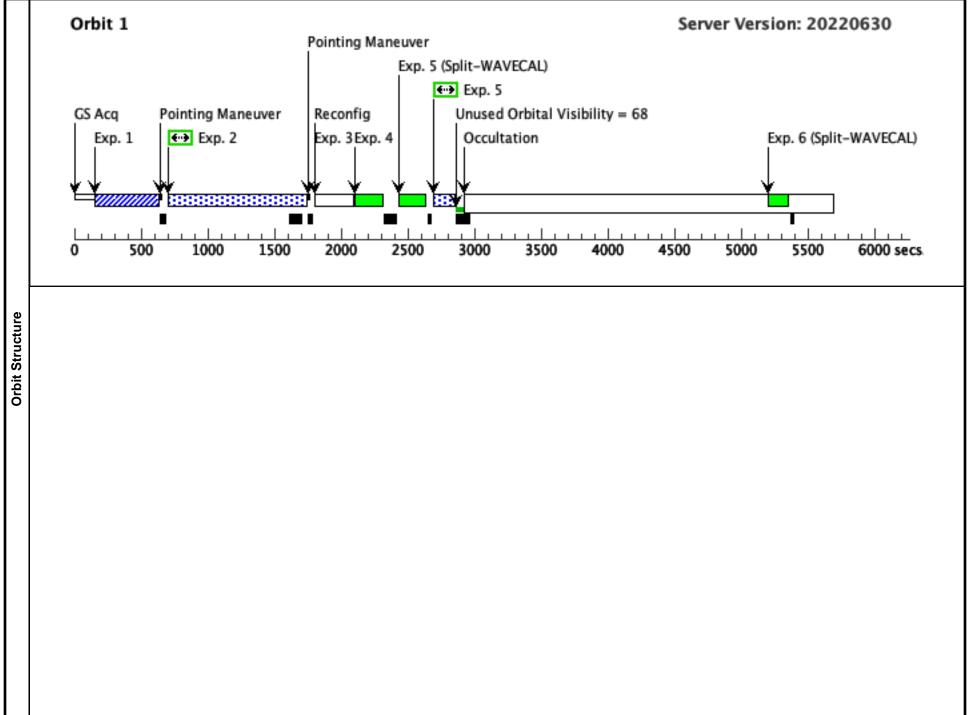


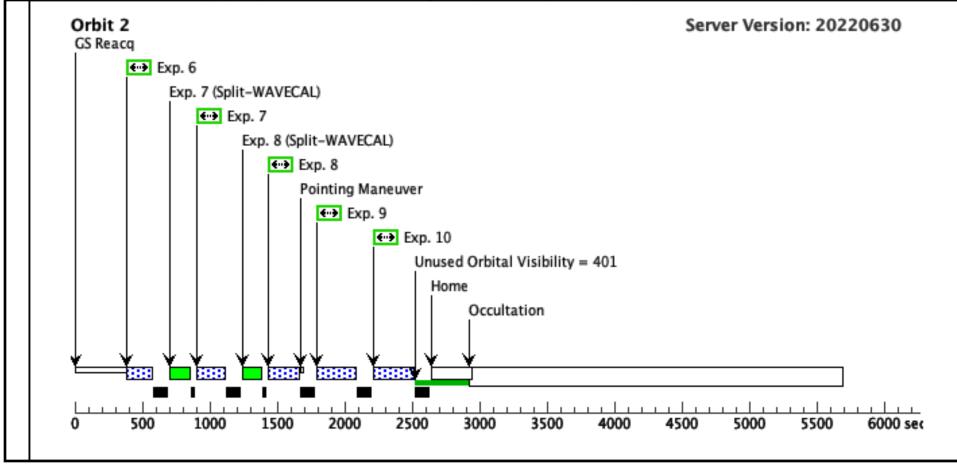


	Proposal 17251, GD71-C2 (0	4), implementation			Tue Jun 13 17:00:54 GMT 2023
	Diagnostic Status: Warning				
1	Scientific Instruments: S/C, C	OS/FUV, COS/NUV			
Visit	Special Requirements: SCHEI	D 100%			
	George Chapman added Expo	avecal to calculate the OSM shifts of the G130M/109 sure 3 vith SEGMENT = A (i.e. segment B is turned off).	96/FUVB observation		
Diagnostics	apply to observations with G1	m): For the best data quality, it is generally required 30M/1291 or G160M.	to use all four FP-POS positions when observing	at a given COS cenwave. See tl	he COS Instrument Handbook for exceptions that may
	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
argets	(2) GD71	RA: 05 52 27.6200 (88.1150833d)	Proper Motion RA: 76.841 mas/yr	V=13.06+/-0.01	Reference Frame: ICRS
١ð		Dec: +15 53 13.23 (15.88701d)	Proper Motion Dec: -172.944 mas/yr		
a Ta		Equinox: J2000	Epoch of Position: 2000		
Fixed [.]	Comments: Co-ordinates and Differences from previous co- Category=STAR Description=[DA] Extended=NO	proper motions updated with values from SIMBAD, v ordinates are in decimal places in seconds of time an	which uses the GAIA DR2 catalog. ad arcsec, within the stated errors.		

	# Label (ETC		Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	ACQ/I (COS.	M	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs)	
	574)	u.057							[==>]	[1]
) is 105.5 sec, using 90 sec leads to S/N of 5. to use the same exposure time since difference		it request.				
- [(2) GD71	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=71			829 Secs (829 Secs)	
	6/FUV 2	B/LP			1096 A	9;			[==>]	
	(COS.	sp.182				FP-POS=3;				[1]
	0351)					SEGMENT=B; LIFETIME-POS=L				[1]
						P2				
	Comments:	Cycle 3	30 comment: e.	xposure time updated following FLUXTAB i	update.					
	The FUVB c	ount re		ome from FUVA). sec, so the buffer time is 2.35E6/566 = 4280 ec	sec.					
	3		DARK	S/C, DATA, NONE			QASISTATES CO	S	1 Secs (1 Secs)	
							FUV HVLOW HV OW	L	[==>]	[1]
	Comments:	Work-a	round to effici	iently schedule the SEG-B to SEG-A reconfig	guration. Eliminate	es SPSS induced gaps.	011			
- r			WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;			160 Secs (160 Secs)	
	6/FUV AVEC				1096 A	SEGMENT=A;			[==>]	
ŝ	P2	AL/L				FLASH=NO;				[1]
٩Ľ						LIFETIME-POS=L P2				[1]
Exposures	Comments: nber 2017 d			re time has been updated to 160 seconds. Th	his was determined		lecrease by about 12 _l	percent in the summ	ed count-rate with time over the period bet	ween Dece
			(2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=10			106 Secs (106 Secs)	
	3/FUV 6				1533 A	6;			[==>]	
	(COS. 7660)	sp.145				FP-POS=3; SEGMENT=A;				
	7000)					LIFETIME-POS=L				[1]
						P6				
	Comments: The FUVA c Set buffer-til	ount re	ate is 9240 cts/	warnings come from FUVB). /sec, so the buffer time is 2.35E6/9240 = 254	4 sec.					
- r	5 G160N	A/157	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=13			135 Secs (135 Secs)	
	7/FUV 6	A/LP			1577 A	5;			[==>]	
	(COS.	sp.145				FP-POS=3;				
	7661)					SEGMENT=A;				[2]
						LIFETIME-POS=L P6				
	Comments:	See Vis	sit 02 comment	ts.						•

COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=15	159 Secs (159 Secs)	
	1611 A	9; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6	[==>]	[2]
C warnings come from FUVB). ts/sec, so the buffer time is 2.35E6/5172 = 45	4 sec.			
COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=17 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6	177 Secs (177 Secs) [==>]	[2]
,		DI IEEED TIME_15	150 Socs (150 Socs)	
COS/FUV, 11ME-1AO, FSA	1611 A	9; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	[==>]	[2]
C warnings come from FUVB). ts/sec, so the buffer time is 2.35E6/5172 = 45	4 sec.			
COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=17 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	177 Secs (177 Secs) [==>]	[2]
	C warnings come from FUVB). ts/sec, so the buffer time is 2.35E6/5172 = 45 COS/FUV, TIME-TAG, PSA C warnings come from FUVB). ts/sec, so the buffer time is 2.35E6/5095 = 46 COS/FUV, TIME-TAG, PSA COS/FUV, TIME-TAG, PSA	1611 A C warnings come from FUVB). ts/sec, so the buffer time is 2.35E6/5172 = 454 sec. COS/FUV, TIME-TAG, PSA G160M 1623 A C warnings come from FUVB). ts/sec, so the buffer time is 2.35E6/5095 = 461 sec. COS/FUV, TIME-TAG, PSA G160M 1611 A C warnings come from FUVB). ts/sec, so the buffer time is 2.35E6/5172 = 454 sec. C warnings come from FUVB). ts/sec, so the buffer time is 2.35E6/5172 = 454 sec. COS/FUV, TIME-TAG, PSA G160M	$1611 \text{ A} = \begin{cases} 9; \\ \text{FP-POS=3;} \\ \text{SEGMENT=A;} \\ \text{LIFETIME-POS=L} \\ \text{P6} \end{cases}$ C warnings come from FUVB). ts/sec, so the buffer time is 2.35E6/5172 = 454 sec. $COS/FUV, \text{TIME-TAG, PSA} = \begin{cases} 160M \\ 1623 \text{ A} \end{cases} = \begin{cases} \text{BUFFER-TIME=17} \\ 7; \\ \text{FP-POS=3;} \\ \text{SEGMENT=A;} \\ \text{LIFETIME-POS=L} \\ \text{P6} \end{cases}$ C warnings come from FUVB). ts/sec, so the buffer time is 2.35E6/5095 = 461 sec. $COS/FUV, \text{TIME-TAG, PSA} = \begin{cases} 160M \\ 1611 \text{ A} \end{cases} = \begin{cases} \text{BUFFER-TIME=15} \\ 9; \\ \text{FP-POS=3;} \\ \text{SEGMENT=A;} \\ \text{LIFETIME-POS=L} \\ P4 \end{cases}$ C warnings come from FUVB). ts/sec, so the buffer time is 2.35E6/5172 = 454 sec. $COS/FUV, \text{TIME-TAG, PSA} = \begin{cases} 160M \\ 1623 \text{ A} \end{cases} = \begin{cases} \text{BUFFER-TIME=15} \\ 9; \\ \text{FP-POS=3;} \\ \text{SEGMENT=A;} \\ \text{LIFETIME-POS=L} \\ P4 \end{cases}$ C warnings come from FUVB). ts/sec, so the buffer time is 2.35E6/5172 = 454 sec. $COS/FUV, \text{TIME-TAG, PSA} = \begin{cases} 160M \\ 1623 \text{ A} \end{cases} = \begin{cases} \text{BUFFER-TIME=17} \\ 7; \\ \text{FP-POS=3;} \\ \text{SEGMENT=A;} \\ \text{IG23 A} \end{cases}$	$1611 \text{ A} \qquad \begin{array}{c} 9; \\ \text{FP-POS=3;} \\ \text{SEGMENT=A;} \\ \text{LIFETIME-POS=L} \\ \text{P6} \end{array} \qquad \begin{array}{c} \hline \ \ \ \ \ \ \ \ \ \ \ \ \$

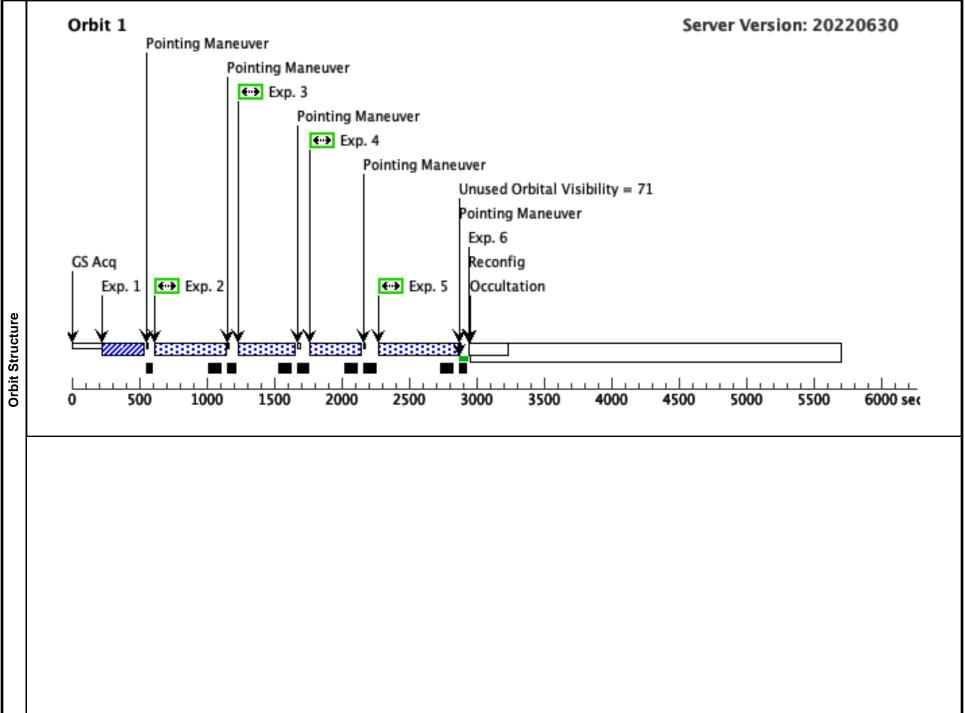


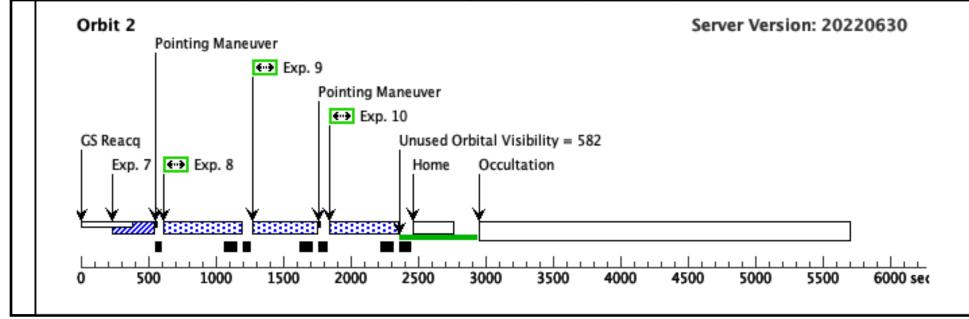


	Proposal 17251, WD0308-C3A	(5A), implementation			Tue Jun 13 17:00:54 GMT 2023					
.±	Diagnostic Status: Warning									
/is	Scientific Instruments: S/C, COS	/FUV, COS/NUV								
1	Special Requirements: SCHED 1	00%								
	Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).									
Diagnostics	(WD0308-C3A (5A)) Warning (I that may apply to observations w	Form): For the best data quality, it is generally rec ith G130M/1291 or G160M.	quired to use all four FP-POS positions when obse	rving at a given COS cenwave.	See the COS Instrument Handbook for exceptions					
	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
rgets	(1) WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 149.241 mas/yr	V=14.07+/-0.02	Reference Frame: ICRS					
) B		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr							
Tal		Equinox: J2000	Epoch of Position: 2000							
Fixed		over from Cycle 25 proposal, checked against SII vr, from SIMBAD, also using the GAIA DR2 catal								

Τ	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
ſ	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
ļ	1								[==>]	[1]
	Con Cyc	nments: cycle 2 cle 28 comment	4 comment: exposur : we continue to use	re times not reduced following updated a the same exposure time since difference	ETC calculations, a es do not affect orb	differences not enough to vit request.	affect orbit requested.			
	2		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=20			318 Secs (318 Secs)	_
ļ	1	5/LP2 (COS.sp.154	,		1055 A	8; ED DOS - 2:			[==>]	'
ļ	1	(COS.sp.154 0024)				FP-POS=3; SEGMENT=BOTH:				[1]
ļ	1					LIFETIME-POS=L	,			[1]
ļ	ı					P2				
	Con	nments: Cycle 2	29 comment: exposu	ure time updated following blue modes T	DS and FLUXTAB	} update.				
		C buffer time is buffer time = ex	1377 sec exptime - 110 sec							
	3		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=15			267 Secs (267 Secs)	
	i	2/LP4 (COS.sp.145	,		1222 A	7; ED DOS-2:			[==>]	
	i	7646)				FP-POS=3; LIFETIME-POS=L				[1]
	ı					P4;				[+]
	ı					SEGMENT=BOTH				
			puffer time is 392 sec. exptime - 110 sec							<u> </u>
Exposures	4		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=12			236 Secs (236 Secs)	_
lso	ı	1/LP5 (COS.sp.145	1		1291 A	6; FP-POS=3;			[==>]	
ğ.	i	7647)				LIFETIME-POS=L				[1]
ш	ı					P5;				1-1
	ł					SEGMENT=BOTH				
			puffer time is 323 sec. exptime - 110 sec							
	5	G140L/1280 /LP3	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=26			371 Secs (371 Secs)	_
	ı	(COS.sp.182			1280 A	1; FP-POS=3;			[==>]	
	1	0354)				LIFETIME-POS=L				[1]
	ı					P3;				1-5
ļ	ı					SEGMENT=BOTH				
ļ	Con	nments: Cycle 3	30 comment: exposu	ure time updated following FLUXTAB up	odate.					
		C buffer time is buffer time = ex	520 sec. exptime - 110 sec							
	6		DARK	S/C, DATA, NONE			QASISTATES COS		1 Secs (1 Secs)	<u> </u>
	ı						FUV HVLOW HVL OW		[==>]	[1]
ļ	Cor	mments: Work-a	around to efficiently	schedule the reconfiguration to SEG-A.	. Eliminates SPSS	induced gaps.				<u> </u>
ļ	7	ACQ/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
	1	(839564)							[==>]	[2]
	Con	nments: cycle 2	4 comment: exposu	the second se	ETC calculations,	differences not enough to	affect orbit requested.			
	Cyc	le 28 comment:	we continue to use	e the same exposure time since difference	s do not affect orbi	<i>it request.</i>				
ļ	4									

8 G140L/800/ (1) WD0308-565 FUVA/LP3 (COS.sp.145 7778)		G140L 800 A	BUFFER-TIME=25 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	<u>367 Secs (367 Secs)</u> [==>]	[2]
Comments: ETC buffer time is 350 set Set buffer time = exptime - 110 sec	2.				
9 G140L/1105 (1) WD0308-565 /FUVA/LP3 (COS.sp.145 7846)	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	<u>332 Secs (332 Secs)</u> [==>]	[2]
Comments: ETC buffer time is 358 set Set buffer time = exptime - 110 sec	<u>.</u>				
10 G130M/132 (1) WD0308-565 7/FUVA/LP 5 (COS.sp.145 7657) Comments: ETC buffer time is 324 set set buffer time = exptime - 110 sec		G130M 1327 A	BUFFER-TIME=16 4; FP-POS=3; LIFETIME-POS=L P5; SEGMENT=A	274 Secs (274 Secs) [==>]	[2]

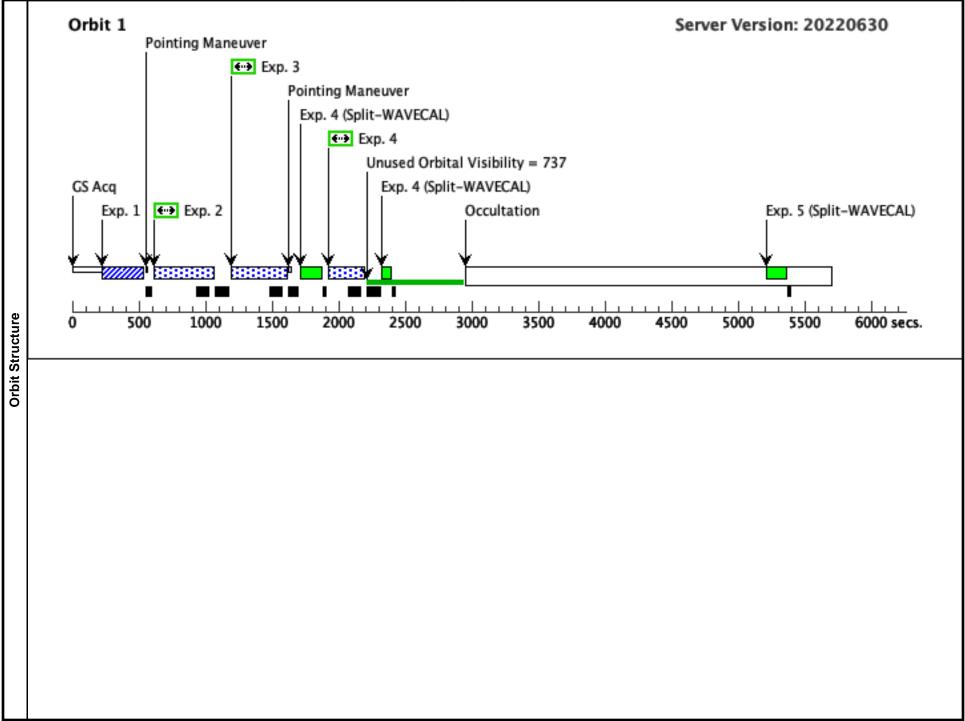


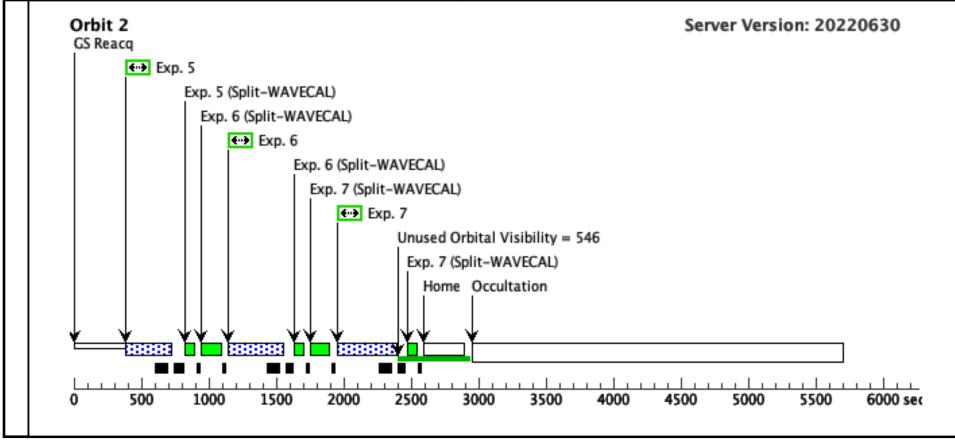


	Proposal 17251, WD0308-C3B	(5B), implementation			Tue Jun 13 17:00:54 GMT 2023
	Diagnostic Status: Warning				
sit	Scientific Instruments: COS/FU	/, COS/NUV			
Ĭ≍	Special Requirements: SCHED	00%			
	Comments: All G160M observat	ons are with SEGMENT = B (i.e. segment A is tu	rned off).		
	1533 & 1577 LP4				
agnostic	that may apply to observations w		· · · · · · · · · · · · · · · · · · ·		See the COS Instrument Handbook for exceptions
Dia					
Dia	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
ā	# Name (1) WD0308-565	Target Coordinates RA: 03 09 47.9200 (47.44966667d)	Targ. Coord. Corrections Proper Motion RA: 149.241 mas/yr	Fluxes V=14.07+/-0.02	Miscellaneous Reference Frame: ICRS
ets Di		0			
ā		RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 149.241 mas/yr		

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACO/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
	(839564)							[==>]	[1]
Coi Cyc	mments: cycle 2 cle 28 comment	24 comment: exposure : we continue to use th	e times not reduced following updated he same exposure time since differenc	ETC calculations, of es do not affect orb	differences not enough to it request.	o affect orbit request	ed.		
2		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			223 Secs (223 Secs)	
	3/B/LP4 (COS.sp.145			1533 A	BUFFER-TIME=11	l		[==>]	
	7649)				3; LIFETIME-POS=L P4;				[1]
					SEGMENT=B				
		uffer time is 502 sec.							
Set		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			291 Secs (291 Secs)	
3	7/B/LP4		COS/FUV, TIME-TAG, PSA	1577 A	BUFFER-TIME=18)		[==>]	
	(COS.sp.154 0036)			1377 A	1;	5		[>]	
	0050)				LIFETIME-POS=L P4;				[1]
					SEGMENT=B				
Coi Set	mments: ETC b buffer time = e	uffer time is 644 sec. xptime - 110 sec							
4	G160M/153	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			223 Secs (223 Secs)	
	3/B/LP6 (COS.sp.145 7649)			1533 A	BUFFER-TIME=11 3;	l		[==>]	
	7012)				LIFETIME-POS=L				[1]
•					P6; SEGMENT=B				
	mments: ETC b	uffer time is 502 sec.			SEGMENT-D				
	buffer time = e	xptime - 110 sec.		C 1 (0) f					
5	G160M/157 7/B/LP6	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	,		291 Secs (291 Secs)	
	(COS.sp.154 0036)			1577 A	BUFFER-TIME=18 1;	5		[==>]	
	0030)				LIFETIME-POS=L				[2]
					P6;				
<i>C</i> .					SEGMENT=B				
		uffer time is 644 sec. xptime - 110 sec							
6		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			360 Secs (360 Secs)	
	1/B/LP6 (COS.sp.154			1611 A	BUFFER-TIME=25	5		[==>]	
	0046) ¹				0; LIEETIME DOS-L				[2]
					LIFETIME-POS=L P6;				[2]
					SEGMENT=B				
Co	mments: ETC b	uffer time is 755 sec.							
Set	puffer time = e	exptime - 110 sec							

G160M/162 (1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	388 Secs (388 Secs)	
3/B/LP6 (COS.sp.154 0050)		1623 A	BUFFER-TIME=27 8;	[==>]	
0000)			LIFETIME-POS=L P6;		[2]
			SEGMENT=B		
Comments: ETC buffer time is 814 sec. et buffer time = exptime - 110 sec					

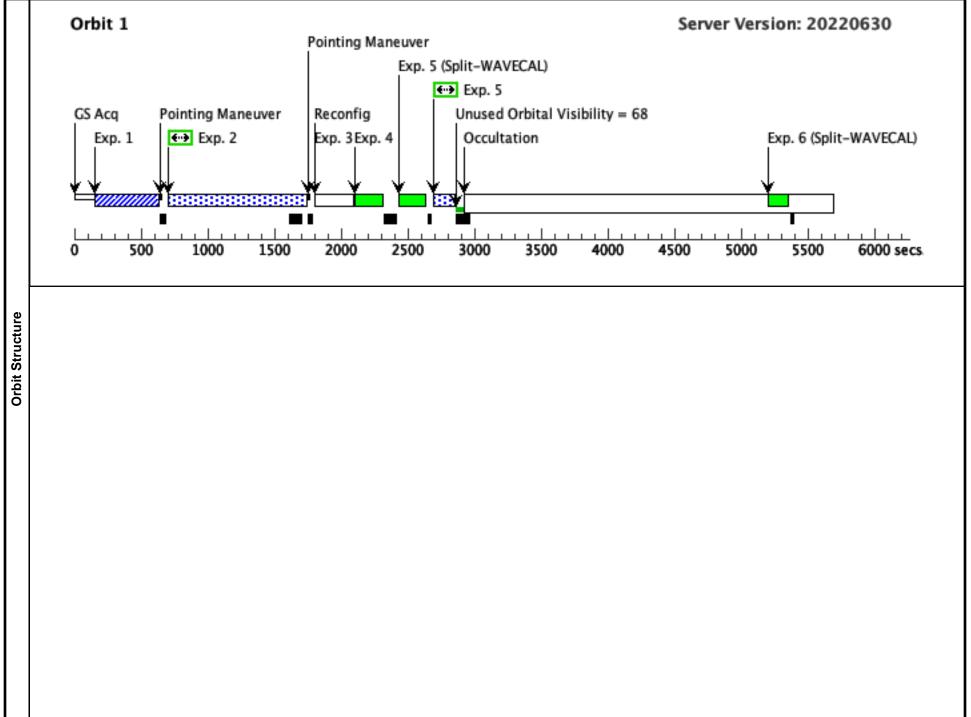


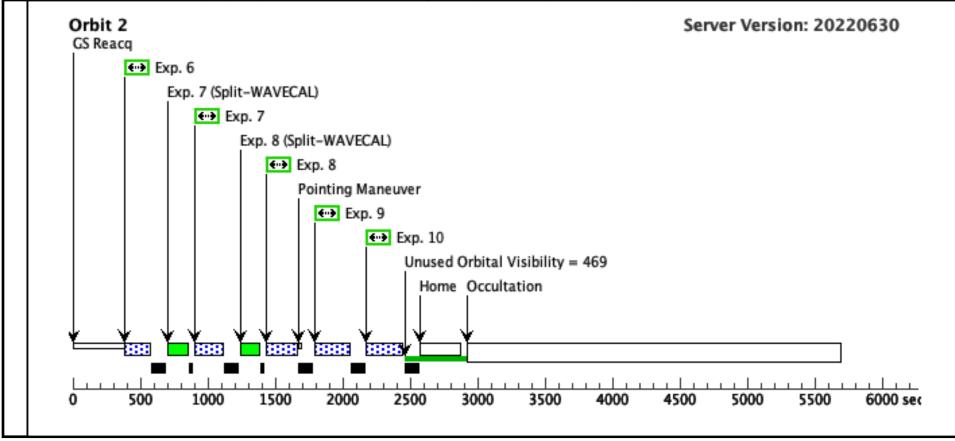


	Proposal 17251, GD71-C3 (0	6), implementation			Tue Jun 13 17:00:54 GMT 2023						
	Diagnostic Status: Warning										
	Scientific Instruments: S/C, CO	DS/FUV, COS/NUV									
Visit	Special Requirements: SCHED) 100%									
>	George Chapman added Expo.	comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation eorge Chapman added Exposure 3 Il G160M observations are with SEGMENT = A (i.e. segment B is turned off).									
	1533 & 1577 LP4										
Diagnostic	apply to observations with G1:	30M/1291 or G160M.		-	he COS Instrument Handbook for exceptions that may						
6	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous						
argets	(2) GD71	RA: 05 52 27.6200 (88.1150833d)	Proper Motion RA: 76.841 mas/yr	V=13.06+/-0.01	Reference Frame: ICRS						
l g		Dec: +15 53 13.23 (15.88701d)	Proper Motion Dec: -172.944 mas/yr								
[⊥] a		Equinox: J2000	Epoch of Position: 2000								
Fixed	Differences from previous co-c Category=STAR	mments: Co-ordinates and proper motions updated with values from SIMBAD, which uses the GAIA DR2 catalog. fferences from previous co-ordinates are in decimal places in seconds of time and arcsec, within the stated errors.									

	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACO/IM	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs)	
		(COS.ta.839 574)							[==>]	[1]
	Con	nments: Exptim	e for S/N of 60 is 10	05.5 sec, using 90 sec leads to S/N of 55. the same exposure time since difference	as do not affect orb	it request				-
	<u>2</u>	G130M/109		COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=71			829 Secs (829 Secs)	
		6/FUVB/LP 2	(_)		1096 A	9;			[==>]	
		(COS.sp.182				FP-POS=3;				
		0351)				SEGMENT=B; LIFETIME-POS=L				[1]
						P2				
	Con	nments: Cycle .	30 comment: exposu	re time updated following FLUXTAB up	pdate.					
	The	FUVB count r	C warnings come fr ate is 549 cts/sec, sc xptime - 110 sec	om FUVA). o the buffer time is 2.35E6/566 = 4280 s	ec.					
	3		DARK	S/C, DATA, NONE			QASISTATES COS		1 Secs (1 Secs)	
							FUV HVLOW HVI OW	_	[==>]	[1]
	Con	nments: Work-a	round to efficiently	schedule the SEG-B to SEG-A reconfig	uration. Eliminate	s SPSS induced gaps.				
	4	G130M/109 6/FUVA W	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;			160 Secs (160 Secs)	
		AVECAL/L			1096 A	SEGMENT=A;			[==>]	
res		P2				FLASH=NO; LIFETIME-POS=L				[1]
nsu						P2				
Exposures		nments: Cycle 2 er 2017 and Ap		e has been updated to 160 seconds. Th	is was determined a	after characterizing the a	lecrease by about 12 p	percent in the summ	ed count-rate with time over the period bet	veen Dece
	5	G160M/153 3/FUVA/LP	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=10 6;			106 Secs (106 Secs)	
		6			1533 A	FP-POS=3;			[==>]	
		(COS.sp.145 7660)				SEGMENT=A;				[1]
						LIFETIME-POS=L				
	Cor	nments: FI/VA	only (all FTC warn	ings come from FUVB).		P6				
	The	$FUVA \ count \ route = e$	ate is 9240 cts/sec, s	so the buffer time is $2.35E6/9240 = 254$	sec.					
	6	G160M/157 7/FUVA/LP	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=13 5;			135 Secs (135 Secs)	+
		6 (COS.sp.145			1577 A	FP-POS=3;			[==>]	
		(COS.sp.145 7661)				SEGMENT=A;				[2]
						LIFETIME-POS=L				
	Cor	nments: See Vis	it 02 comments.			P6				1
	201		52 comments.							

7 G160M/161 (2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=15	159 Secs (159 Secs)	
1/FUVA/LP 6 (COS.sp.154 0058)		1611 A	9; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6	[==>]	[2]
Comments: FUVA only (all ETC The FUVA count rate is 5172 cts, Set buffer-time = exptime	warnings come from FUVB). /sec, so the buffer time is 2.35E6/5172 = 45	4 sec.			
8 G160M/162 (2) GD71 3/FUVA/LP 6 (COS.sp.145 7663)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=17 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6	177 Secs (177 Secs) [==>]	[2]
Set buffer-time = exptime	/sec, so the buffer time is 2.35E6/5095 = 46				
9 G160M/153 (2) GD71 3/FUVA/LP 4 (COS.sp.145 7660)	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 6; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	106 Secs (106 Secs) [==>]	[2]
Comments: FUVA only (all ETC The FUVA count rate is 9240 cts, Set buffer-time = exptime	warnings come from FUVB). /sec, so the buffer time is 2.35E6/9240 = 25	4 sec.			
10 G160M/157 (2) GD71 7/FUVA/LP 4 (COS.sp.145 7661)	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=13 5; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	135 Secs (135 Secs) [==>]	[2]
Comments: FUVA only (all ETC The FUVA count rate is 6674 cts, Set buffer-time = exptime	warnings come from FUVB). /sec, so the buffer time is 2.35E6/6674 = 35	2 sec.			1

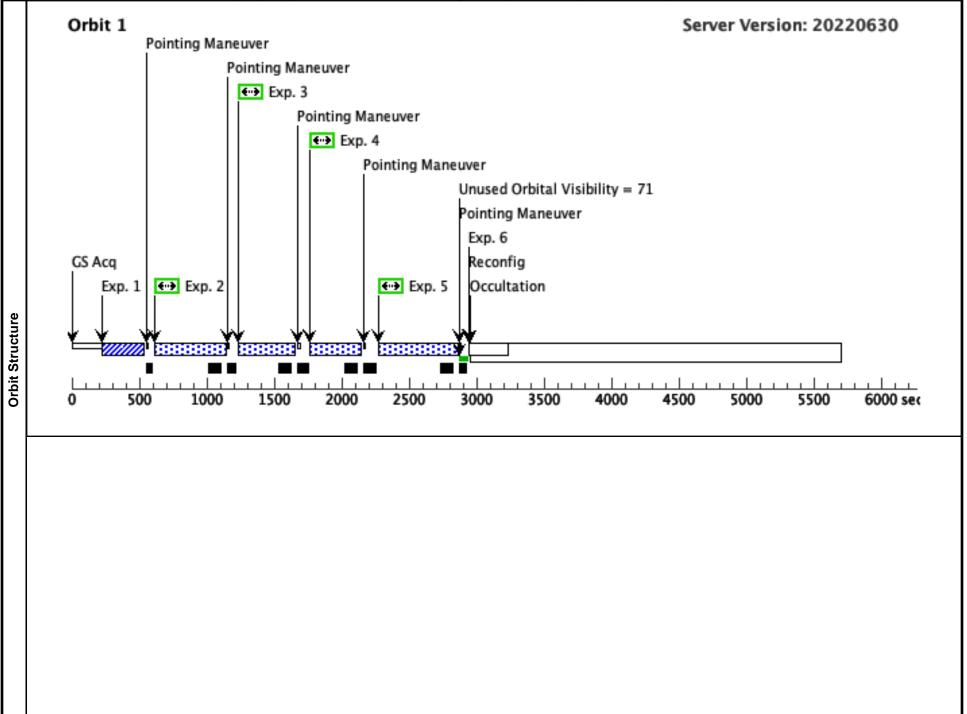


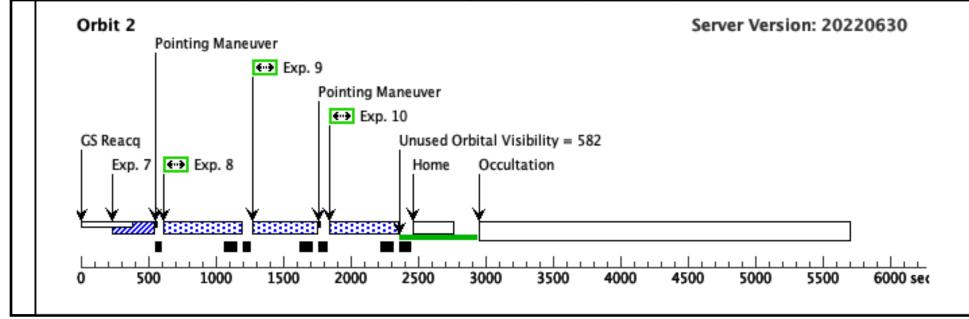


	Proposal 17251, WD0308-C4A	(7A), implementation			Tue Jun 13 17:00:54 GMT 2023						
<u>بن</u>	Diagnostic Status: Warning										
isit	Scientific Instruments: S/C, COS	/FUV, COS/NUV									
>	Special Requirements: SCHED 100%										
		ons are with SEGMENT = B (i.e. segment A is tu c GD71 is not available, we use SEGMENT = BO	rned off) for all other WD0308-565 visits. TH to keep track of the segment A response, and th	he first DARK exposure (exp 00	6 in the other visits) has been removed.						
Diagnostics	(WD0308-C4A (7A)) Warning (I that may apply to observations w	Form): For the best data quality, it is generally rec ith G130M/1291 or G160M.	quired to use all four FP-POS positions when obse	rving at a given COS cenwave.	See the COS Instrument Handbook for exceptions						
	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous						
ets	(1) WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 149.241 mas/yr	V=14.07+/-0.02	Reference Frame: ICRS						
5		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr								
Tar		Equinox: J2000	Epoch of Position: 2000								
Fixed [.]		over from Cycle 25 proposal, checked against SII yr, from SIMBAD, also using the GAIA DR2 catai									

	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
ļ	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
	1								[==>]	[1]
				re times not reduced following updated a the same exposure time since difference			affect orbit requested.			
ļ	2		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=20			318 Secs (318 Secs)	<u> </u>
ļ	1	5/LP2 (COS.sp.154 0024)			1055 A	8; ED DOS-2.			[==>]	'
ļ	1	0024) ¹				FP-POS=3; SEGMENT=BOTH:				
ļ	1					LIFETIME-POS=L	,			[1]
ļ	1					P2				
	Con	nments: Cycle 2	29 comment: exposu	ure time updated following blue modes T	'DS and FLUXTAB	3 update.				
		C buffer time is buffer time = e:	1377 sec xptime - 110 sec							
ļ	3		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=15			267 Secs (267 Secs)	
ļ	1	2/LP4 (COS.sp.145			1222 A	7; FP-POS=3;			[==>]	
ļ	1	7646)				LIFETIME-POS=L				[1]
ļ	1					P4;				1-1
ļ	1					SEGMENT=BOTH				
			uffer time is 392 sec. xptime - 110 sec							
Exposures	4		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=12			236 Secs (236 Secs)	<u> </u>
lso	1	1/LP5 (COS.sp.145			1291 A	6; FP-POS=3;			[==>]	
ğ.	1	7647)				LIFETIME-POS=L				[1]
ш	1					P5;				1-3
ļ	1					SEGMENT=BOTH				
			uffer time is 323 sec. xptime - 110 sec	,						
ļ	5		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=26			371 Secs (371 Secs)	<u> </u>
ļ	1	/LP3 (COS.sp.182			1280 A	1; FP-POS=3;			[==>]	
ļ	1	0354) ¹				LIFETIME-POS=L				[1]
ļ	1					P3;				[+]
ļ	1					SEGMENT=BOTH				
ļ	Con	nments: Cycle 3	30 comment: exposu	ure time updated following FLUXTAB up	odate.					
		C buffer time is buffer time = ez	520 sec. xptime - 110 sec							
ļ	6		DARK	S/C, DATA, NONE			QASISTATES COS		1 Secs (1 Secs)	<u> </u>
ļ	1						FUV HVLOW HVL OW		[==>]	[1]
ļ	Cor	nments: Work-a	around to efficiently	schedule the reconfiguration to SEG-A.	Eliminates SPSS	induced gaps.				•
ļ	7	ACQ/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
ļ	1	(839564)							[==>]	[2]
ļ	Con	nments: cycle 2	4 comment: exposur	re times not reduced following updated	ETC calculations,	differences not enough to	affect orbit requested.			
ļ	Cyci	le 28 comment:	: we continue to use	the same exposure time since difference	's do not affect orb	it request.				
ļ	1									

FUVA/LP3 (COS.sp.145 7778)	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=25 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	367 Secs (367 Secs) [==>]	[2]
Comments: ETC buffer time is 350 sec. Set buffer time = exptime - 110 sec					
9 G140L/1105 (1) WD0308-565 /FUVA/LP3 (COS.sp.145 7846)	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	332 Secs (332 Secs) [==>]	[2]
Comments: ETC buffer time is 358 sec. Set buffer time = exptime - 110 sec					
10 G130M/132 (1) WD0308-565 7/FUVA/LP 5 (COS.sp.145 7657) Comments: ETC buffer time is 324 sec. set buffer time = exptime - 110 sec	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]

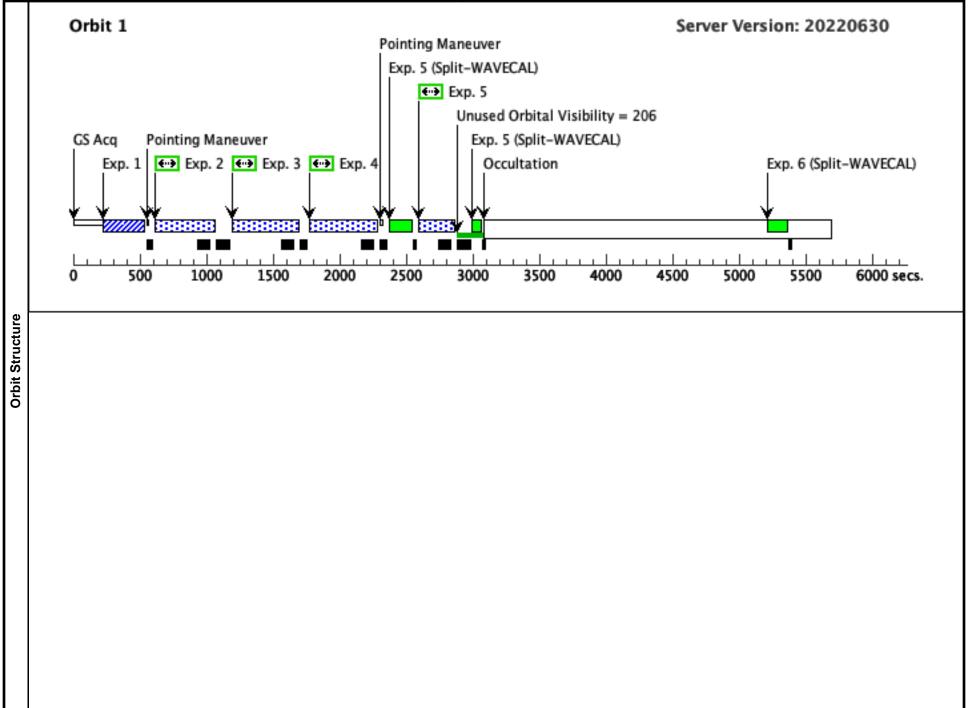


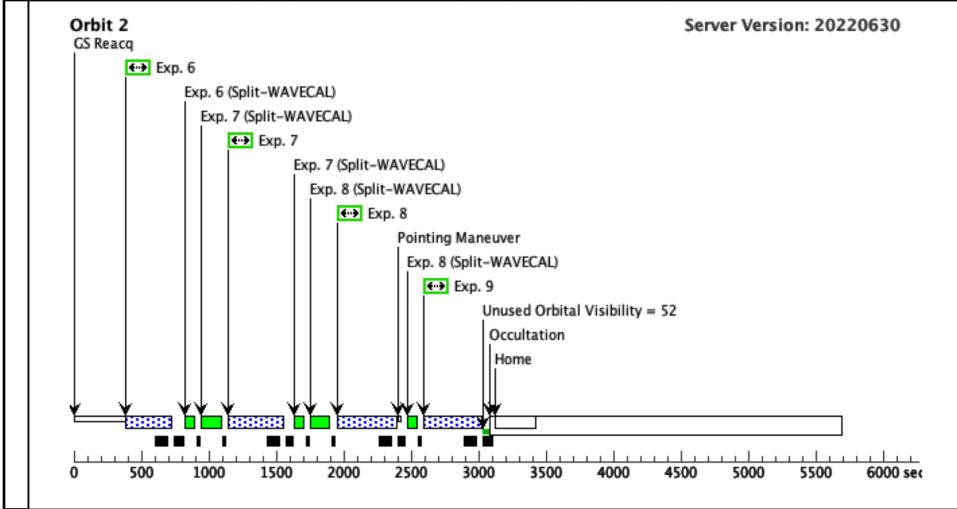


	Proposal 17251, WD0308-C4B	(7B), implementation			Tue Jun 13 17:00:54 GMT 2023						
	Diagnostic Status: Warning										
±.	Scientific Instruments: COS/FUV, COS/NUV										
/is	Special Requirements: SCHED 8	30%									
[omments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off) for all other WD0308-565 visits. owever, 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.									
	1533 & 1577 & 1611 & 1623										
Diagnostics	that may apply to observations w	vith G130M/1291 or G160M.		Fluxes	See the COS Instrument Handbook for exceptions Miscellaneous						
ω		Target Coordinates	Targ. Coord. Corrections								
Jets	(1) WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 149.241 mas/yr	V=14.07+/-0.02	Reference Frame: ICRS						
arg		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr								
		E 12000	Enoch of Position: 2000								
μ		Equinox: J2000	Epoch of Position: 2000								

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
	(839564)							[==>]	[1]
Con Cycl	iments: cycle 2 le 28 comment:	4 comment: exposure we continue to use t	e times not reduced following updated he same exposure time since differenc	ETC calculations, of es do not affect orb	differences not enough to it request.	o affect orbit request	ed.		
2		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			223 Secs (223 Secs)	
	3/BOTH/LP 4			1533 A	BUFFER-TIME=11			[==>]	
	(COS.sp.145				3;				
	7649)				LIFETIME-POS=L P4;				[1]
					SEGMENT=BOTH				
		uffer time is 502 sec. xptime - 110 sec.							
3	00	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			360 Secs (360 Secs)	
	1/BOTH/LP 4	· · ·		1611 A	BUFFER-TIME=25	i		[==>]	
	4 (COS.sp.154				0;				
	0046)				LIFETIME-POS=L P4;				[1]
					SEGMENT=BOTH				
Con	ıments: ETC bı	uffer time is 755 sec.							
Set l	00	xptime - 110 sec							1
4	G160M/162 3/BOTH/LP	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			388 Secs (388 Secs)	
	4			1623 A	BUFFER-TIME=27 8;			[==>]	
	(COS.sp.154 0050)				LIFETIME-POS=L				[1]
					P4;				
~					SEGMENT=BOTH				
		uffer time is 814 sec. xptime - 110 sec							-
5		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			223 Secs (223 Secs)	
	3/BOTH/LP 6			1533 A	BUFFER-TIME=11			[==>]	
	(COS.sp.145 7649)				3; LIFETIME-POS=L				[1]
	7047)				P6;				
					SEGMENT=BOTH				
Con Set 1	nments: ETC bi buffer time = ez	uffer time is 502 sec. xptime - 110 sec.							
6	G160M/157	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			291 Secs (291 Secs)	
	7/BOTH/LP 6			1577 A	BUFFER-TIME=18	3		[==>]	
	(COS.sp.154				1;				
	0036) ¹				LIFETIME-POS=L P6;				[2]
					SEGMENT=BOTH				
Con	iments: ETC bi	uffer time is 644 sec.							
Set l	buffer time = e	xptime - 110 sec							

7 G160M/161 (1) WD0308-5	565 COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	360 Secs (360 Secs)	
1/BOTH/LP 6 (COS.sp.154		1611 A	BUFFER-TIME=25 0;	[==>]	
0046)			LIFETIME-POS=L P6;		[2]
			SEGMENT=BOTH		
Comments: ETC buffer time is 75. Set buffer time = exptime - 110 se					
8 G160M/162 (1) WD0308-5	565 COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	388 Secs (388 Secs)	
3/BOTH/LP 6 (COS.sp.154		1623 A	BUFFER-TIME=27 8;	[==>]	
0050)			LIFETIME-POS=L P6;		[2]
			SEGMENT=BOTH		
Comments: ETC buffer time is 814 Set buffer time = exptime - 110 se					
9 G160M/157 (1) WD0308-5	565 COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	291 Secs (291 Secs)	
7/BOTH/LP 4 (COS.sp.154		1577 A	BUFFER-TIME=18 1;	[==>]	
0036)			LIFETIME-POS=L P4;		[2]
			SEGMENT=BOTH		
Comments: ETC buffer time is 644 Set buffer time = exptime - 110 se					

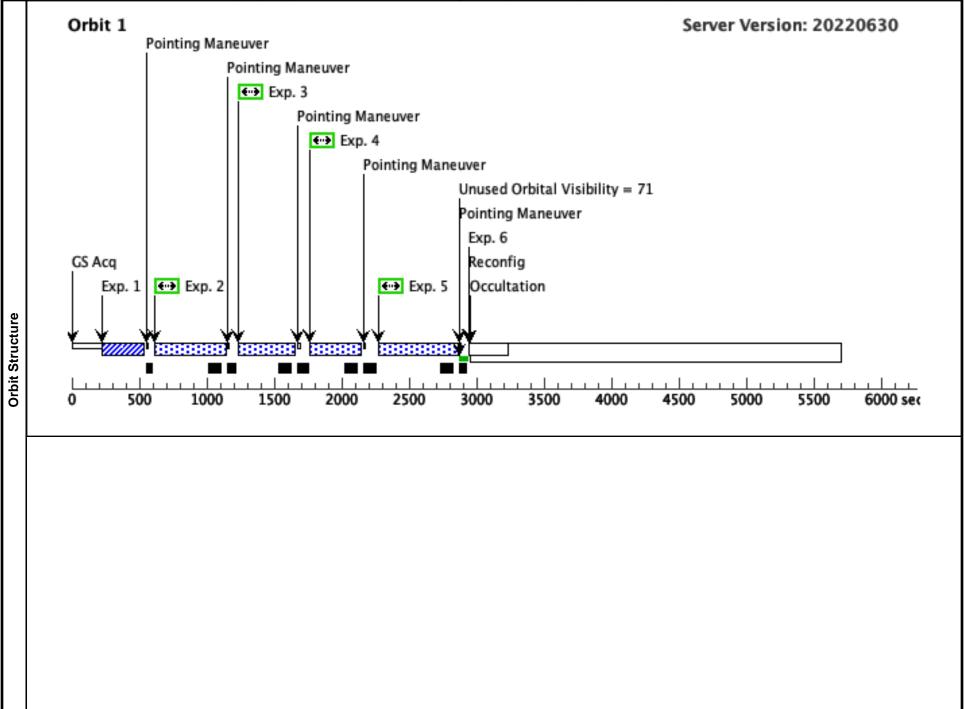


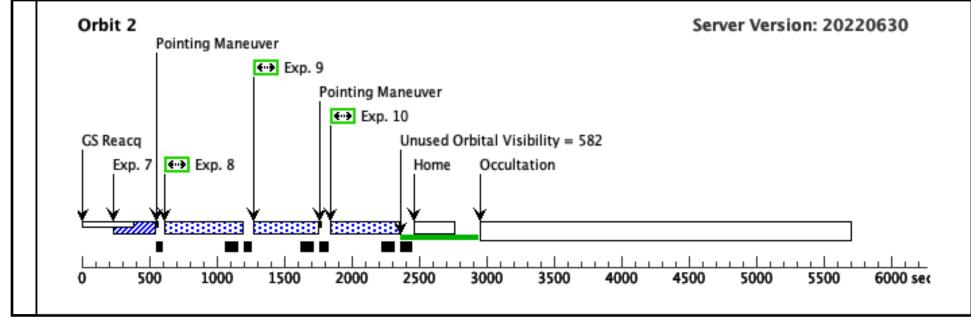


	Proposal 17251, WD0308-C5A	(8A), implementation			Tue Jun 13 17:00:54 GMT 2023				
<u>.</u>	Diagnostic Status: Warning								
/is	Scientific Instruments: S/C, COS	/FUV, COS/NUV							
1	Special Requirements: SCHED 1	00%; BETWEEN 14-JUL-2023:00:00:00 AND 3	1-JUL-2023:00:00:00						
	Comments: All G160M observation	ons are with SEGMENT = B (i.e. segment A is tu	rned off).						
Diagnostics	(WD0308-C5A (8A)) Warning (F that may apply to observations w		uired to use all four FP-POS positions when obse	rving at a given COS cenwave.	See the COS Instrument Handbook for exceptions				
	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
Targets	(1) WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 149.241 mas/yr	V=14.07+/-0.02	Reference Frame: ICRS				
) B		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr						
Tal		Equinox: J2000	Epoch of Position: 2000						
Fixed .		over from Cycle 25 proposal, checked against SII rr, from SIMBAD, also using the GAIA DR2 catal							

Π	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
ļ	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
ļ	1								[==>]	[1]
ļ	Con Cyc	nments: cycle 2 cle 28 comment:	4 comment: exposur : we continue to use	re times not reduced following updated t the same exposure time since difference	ETC calculations, o es do not affect orb	differences not enough to nit request.	affect orbit requested.			
ļ	2		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=20			318 Secs (318 Secs)	<u> </u>
ļ	i i	5/LP2 (COS.sp.154			1055 A	8; ED DOS - 2:			[==>]	'
ļ	i i	(COS.sp.154 0024)				FP-POS=3; SEGMENT=BOTH:				
ļ	1					LIFETIME-POS=L	,			[1]
ļ	1					P2				
	Con	nments: Cycle 2	29 comment: exposu	re time updated following blue modes T	DS and FLUXTAB	3 update.				
		C buffer time is buffer time = e:	1377 sec xptime - 110 sec							
ļ	3		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=15			267 Secs (267 Secs)	
	1	2/LP4 (COS.sp.145			1222 A	7; FP-POS=3;			[==>]	
ļ	1	7646)				LIFETIME-POS=L				[1]
	1					P4;				1-1
ļ	1					SEGMENT=BOTH				
			uffer time is 392 sec. xptime - 110 sec							
Exposures	4		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=12			236 Secs (236 Secs)	<u> </u>
osl	1	1/LP5 (COS.sp.145			1291 A	6; FP-POS=3;			[==>]	
ğ.	1	7647)				LIFETIME-POS=L				[1]
ш	1					P5;				1-3
	1					SEGMENT=BOTH				
			uffer time is 323 sec. xptime - 110 sec							<u> </u>
	5	G140L/1280 /LP3	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=26			371 Secs (371 Secs)	_
	1	(COS.sp.182			1280 A	1; FP-POS=3;			[==>]	
ļ	1	0354)				LIFETIME-POS=L				[1]
ļ	1					P3;				1-3
	1					SEGMENT=BOTH				
ļ	Con	nments: Cycle 3	30 comment: exposu	re time updated following FLUXTAB up	odate.					
		C buffer time is buffer time = e:	520 sec. xptime - 110 sec							
ļ	6		DARK	S/C, DATA, NONE			QASISTATES COS		1 Secs (1 Secs)	<u> </u>
ļ	1						FUV HVLOW HVL OW		[==>]	[1]
ļ	Cor	nments: Work-a	around to efficiently	schedule the reconfiguration to SEG-A.	Eliminates SPSS	induced gaps.				
ļ	7	ACQ/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
ļ	1	(839564)							[==>]	[2]
ļ	Con	nments: cycle 2	4 comment: exposur	re times not reduced following updated	ETC calculations,	differences not enough to	affect orbit requested.			
ļ	Cyc	le 28 comment:	: we continue to use	the same exposure time since difference	's do not affect orv	it request.				
	1									

8 G140L/800/ (1) WD0308-565 FUVA/LP3 (COS.sp.145 7778)	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=25 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	367 Secs (367 Secs) [==>]	[2]
Comments: ETC buffer time is 350 sec. Set buffer time = exptime - 110 sec					
9 G140L/1105 (1) WD0308-565 /FUVA/LP3 (COS.sp.145 7846)	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	332 Secs (332 Secs) [==>]	[2]
Comments: ETC buffer time is 358 sec. Set buffer time = exptime - 110 sec					
10 G130M/132 (1) WD0308-565 7/FUVA/LP 5 (COS.sp.145 7657) Comments: ETC buffer time is 324 sec. set buffer time = exptime - 110 sec	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]

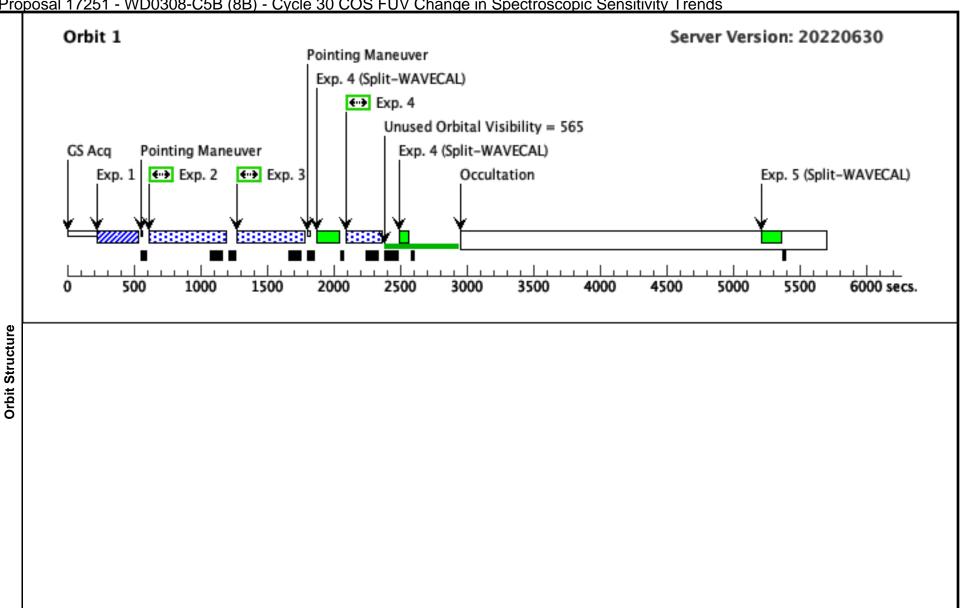


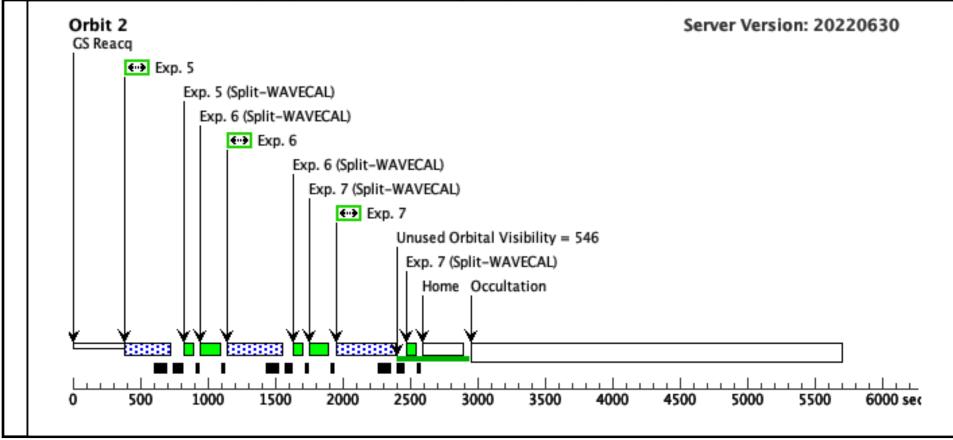


	Proposal 17251, WD0308-C5B	(8B), implementation			Tue Jun 13 17:00:54 GMT 2023					
	Diagnostic Status: Warning									
sit	Scientific Instruments: COS/FUV	Scientific Instruments: COS/FUV, COS/NUV								
Ĭ	Special Requirements: SCHED 1	00%; BETWEEN 14-JUL-2023:00:00:00 AND 3	31-JUL-2023:00:00:00							
	Comments: All G160M observati	ions are with SEGMENT = B (i.e. segment A is tu	rned off).							
	1611 & 1623 LP4									
Diagnostics	(WD0308-C5B (8B)) Warning (I that may apply to observations w		quired to use all four FP-POS positions when obser	rving at a given COS cenwave.	See the COS Instrument Handbook for exceptions					
	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
ets	(1) WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 149.241 mas/yr	V=14.07+/-0.02	Reference Frame: ICRS					
arge		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr							
Tal		Equinox: J2000	Epoch of Position: 2000							
Г <u>.</u>	Comments: Coordinates carried	over from Cycle 25 proposal, checked against SI	MBAD, which uses the GAIA DR2 catalog.							

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit		
1	ACQ/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)			
	(839564)							[==>]	[1]		
Cor Cyc	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		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			360 Secs (360 Secs)			
	1/BOTH/LP 4			1611 A	BUFFER-TIME=25 0;	5		[==>]			
	(COS.sp.154 0046)				LIFETIME-POS=L P4;				[1]		
					SEGMENT=BOTH	[
Cor Set	mments: ETC b buffer time = e	uffer time is 755 sec. xptime - 110 sec									
3		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			388 Secs (388 Secs)			
	3/BOTH/LP 4			1623 A	BUFFER-TIME=27 8;	7		[==>]			
	(COS.sp.154 0050)				o, LIFETIME-POS=L P4;				[1]		
					SEGMENT=BOTH	[
Con Set	mments: ETC b buffer time – e	uffer time is 814 sec. xptime - 110 sec									
4	G160M/153	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			223 Secs (223 Secs)			
	3/BOTH/LP 6			1533 A	BUFFER-TIME=11	l		[==>]			
	(COS.sp.145 7649)				3; LIFETIME-POS=L				[1]		
	7049)				P6;				[1]		
					SEGMENT=BOTH	[
Cor Set	mments: ETC b buffer time = e	uffer time is 502 sec. xptime - 110 sec.									
5		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			291 Secs (291 Secs)			
	7/BOTH/LP 6			1577 A	BUFFER-TIME=18 1:	3		[==>]			
	(COS.sp.154 0036)				LIFETIME-POS=L				[2]		
					P6;				2-3		
					SEGMENT=BOTH	I					
Cor Set	mments: ETC b buffer time = e	uffer time is 644 sec. xptime - 110 sec									
6		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			360 Secs (360 Secs)			
	1/BOTH/LP 6			1611 A	BUFFER-TIME=25 0;	5		[==>]			
	(COS.sp.154 0046)				LIFETIME-POS=L				[2]		
	,				P6;						
_		<i>a i i </i>			SEGMENT=BOTH	I					
Cor Set	mments: ETC b buffer time = e	uffer time is 755 sec. xptime - 110 sec									

2	G160M/162 (1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	388 Secs (388 Secs)	
	3/BOTH/LP 6 (COS.sp.154		1623 A	BUFFER-TIME=27 8;	[==>]	
	0050)			LIFETIME-POS=L P6;		[2]
				SEGMENT=BOTH		
	omments: ETC buffer time is 814 sec. et buffer time = exptime - 110 sec					

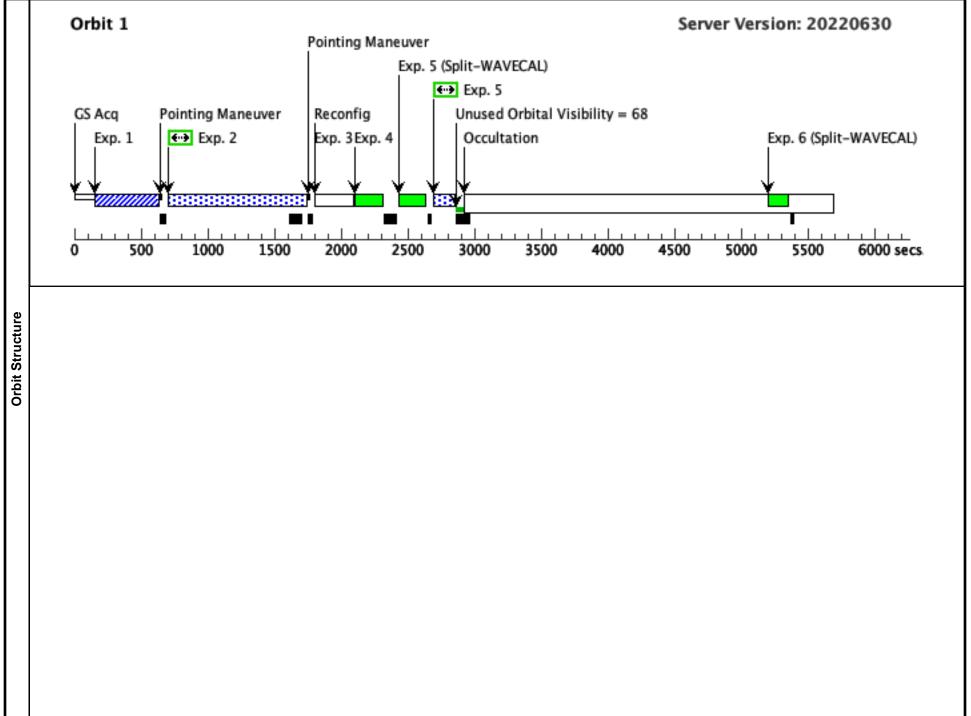


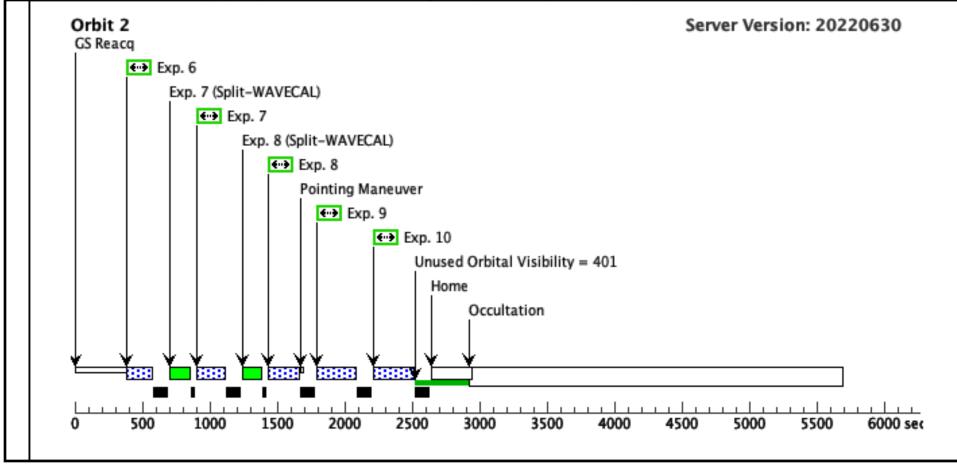


Ė	Proposal 17251, GD71-C4 (0		Change in Opectroscopic Cen		Tue Jun 13 17:00:54 GMT 2023							
	•	· · ·			Tue Juli 15 17:00:54 GWT 2025							
	Diagnostic Status: Warning											
	Scientific Instruments: S/C, COS/FUV, COS/NUV											
s;	Special Requirements: SCHED 100%; BETWEEN 07-SEP-2023:00:00:00 AND 21-SEP-2023:00:00:00											
Ī	Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation											
	George Chapman added Exposure 3 All C160M observations are with SECMENT – Λ (i.e. segment P is turned off)											
	All 0100M observations are v	All G160M observations are with SEGMENT = A (i.e. segment B is turned off).										
	1611 & 1623 LP4											
Diagnostics	apply to observations with G1											
	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
ŝ	(2) GD71	RA: 05 52 27.6200 (88.1150833d)	Proper Motion RA: 76.841 mas/yr	V=13.06+/-0.01	Reference Frame: ICRS							
argets		Dec: +15 53 13.23 (15.88701d)	Proper Motion Dec: -172.944 mas/yr									
Tai		Equinox: J2000	Epoch of Position: 2000									
Fixed		proper motions updated with values from SIMBAD, v ordinates are in decimal places in seconds of time an										

÷	# Label (ETC Ru	Tar 1)	get	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
ſ	1 ACQ/IM (COS.ta.8	(2)	GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs)	
	(COS.ta.8 574)	39							[==>]	[1]
				105.5 sec, using 90 sec leads to S/N of 55 e the same exposure time since difference		it request.				
	2 G130M/1		GD71	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=71			829 Secs (829 Secs)	
	6/FUVB/I 2				1096 A	9; ED DOS-2:			[==>]	
	(COS.sp.1 0351)	82				FP-POS=3; SEGMENT=B;				[1]
	0551)					LIFETIME-POS=L				[1]
						P2				
	Comments: Cyc	le 30 co	mment: expos	sure time updated following FLUXTAB u	pdate.					
	FUVB only (all The FUVB cour Set buffer-time	t rate is	549 cts/sec, s	from FUVA). so the buffer time is 2.35E6/566 = 4280 s	ec.					
	3	DA		S/C, DATA, NONE			QASISTATES CO	S	1 Secs (1 Secs)	
							FUV HVLOW HV	L	[==>]	[1]
	Comments: Wo	·k-aroun	nd to efficientl	y schedule the SEG-B to SEG-A reconfig	uration Fliminate	s SPSS induced gans	0			.,
	4 G130M/1			COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;			160 Secs (160 Secs)	
	6/FUVA AVECAL	V			1096 A	SEGMENT=A;			[==>]	
ŝ	P2	L				FLASH=NO;				[1]
ure						LIFETIME-POS=L				[1]
Exposures	Comments: Cyc nber 2017 and	le 28: th April 20	ne exposure tii 120.	me has been updated to 160 seconds. Th	is was determined a	P2 after characterizing the a	lecrease by about 12	percent in the sumn	ned count-rate with time over the period bet	ween Dece
	5 G160M/1		GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=10			106 Secs (106 Secs)	
	3/FUVA/I 6				1533 A	6; ED DOS-2:			[==>]	
	(COS.sp.1 7660)	45				FP-POS=3; SEGMENT=A;				
	7000)					LIFETIME-POS=L				[1]
						P6				
	Comments: FU The FUVA cour Set buffer-time	t rate is	9240 cts/sec,	nings come from FUVB). so the buffer time is 2.35E6/9240 = 254	sec.					
	6 G160M/1	57 (2)		COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=13			135 Secs (135 Secs)	
	7/FUVA/I 6				1577 A	5; ED DOS 2:			[==>]	
	(COS.sp.1 7661)	45				FP-POS=3; SEGMENT=A;				[2]
	7001)					LIFETIME-POS=L				[2]
						P6				
	Comments: See	Visit 02	comments.							

7 G160M/161 (2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=15	159 Secs (159 Secs)	
1/FUVA/LP 6 (COS.sp.154 0058)		1611 A	9; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6	[==>]	[2]
Comments: FUVA only (all ETC The FUVA count rate is 5172 cts/ Set buffer-time = exptime	warnings come from FUVB). (sec, so the buffer time is 2.35E6/5172 = 45	4 sec.			
8 G160M/162 (2) GD71 3/FUVA/LP 6 (COS.sp.145 7663)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=17 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6	177 Secs (177 Secs) [==>]	[2]
Comments: FUVA only (all ETC The FUVA count rate is 5095 cts/ Set buffer-time = exptime 9 G160M/161 (2) GD71	warnings come from FUVB). (sec, so the buffer time is 2.35E6/5095 = 46 COS/FUV, TIME-TAG, PSA	1 sec. G160M	BUFFER-TIME=15	159 Secs (159 Secs)	
1/FUVA/LP 4 (COS.sp.154	COS/FUV, 11ME-1AO, PSA	1611 A	9; FP-POS=3; SEGMENT=A;	[==>]	
0058)			LIFETIME-POS=L P4		[2]
Comments: FUVA only (all ETC)	warnings come from FUVB). sec, so the buffer time is 2.35E6/5172 = 45	4 sec.			[2]
Comments: FUVA only (all ETC The FUVA count rate is 5172 cts/	warnings come from FUVB). (sec, so the buffer time is 2.35E6/5172 = 45 COS/FUV, TIME-TAG, PSA	4 sec. G160M 1623 A		177 Secs (177 Secs) [==>]	

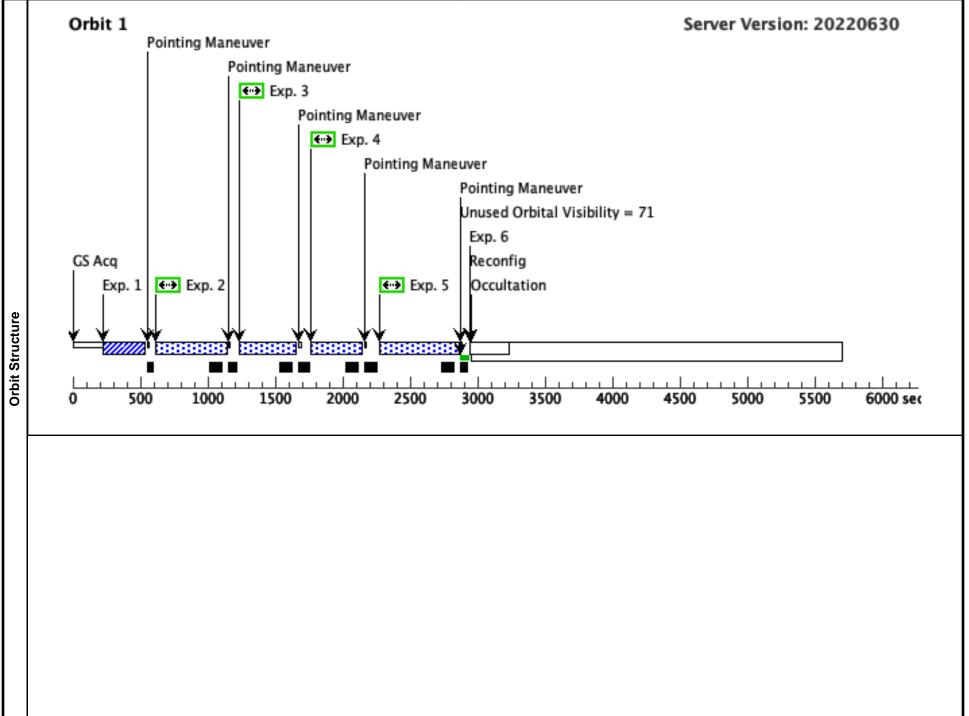


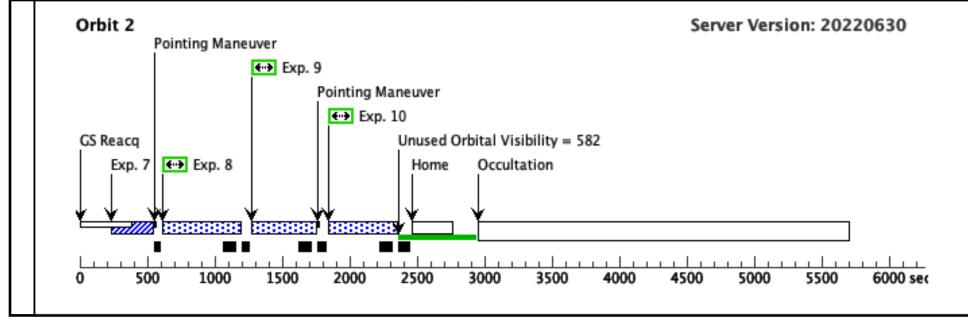


	Proposal 17251, WD0308-C6A	(10), implementation			Tue Jun 13 17:00:54 GMT 2023				
±.	Diagnostic Status: Warning								
/isit	Scientific Instruments: S/C, COS/FUV, COS/NUV								
1	Special Requirements: SCHED 1	00%; BETWEEN 01-SEP-2023:00:00:00 AND 2	21-SEP-2023:00:00:00						
	Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).								
Diagnostics	(WD0308-C6A (10)) Warning (F may apply to observations with C	form): For the best data quality, it is generally req 3130M/1291 or G160M.	uired to use all four FP-POS positions when obser	ving at a given COS cenwave.	See the COS Instrument Handbook for exceptions that				
	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
argets	(1) WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 149.241 mas/yr	V=14.07+/-0.02	Reference Frame: ICRS				
b D		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr						
a l		Equinox: J2000	Epoch of Position: 2000						
Fixed		over from Cycle 25 proposal, checked against SII vr, from SIMBAD, also using the GAIA DR2 catal							

ŧ		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]
(Com Cycle	ments: cycle 2 e 28 comment:	4 comment: exposure we continue to use t	e times not reduced following updated i he same exposure time since difference	ETC calculations, a s do not affect orb	<i>lifferences not enough to it request.</i>	affect orbit requested.			
2			(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=20			318 Secs (318 Secs)	
		5/LP2 (COS.sp.154			1055 A	8; ED DOS-2:			[==>]	
		0024) ¹				FP-POS=3; SEGMENT=BOTH:				[1]
						LIFETIME-POS=L				[1]
						P2				
6	Com	ments: Cycle 2	29 comment: exposur	e time updated following blue modes T	DS and FLUXTAB	update.				
		buffer time is puffer time = e.	1377 sec xptime - 110 sec							
í.			(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=15			267 Secs (267 Secs)	
		2/LP4 (COS.sp.145			1222 A	7; FP-POS=3;			[==>]	
		7646) ¹				FP-POS=3; LIFETIME-POS=L				[1]
						P4;				[*]
						SEGMENT=BOTH				
			uffer time is 392 sec. xptime - 110 sec							
Exposures	4		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=12			236 Secs (236 Secs)	
วรเ		1/LP5 (COS.sp.145			1291 A	6; FP-POS=3;			[==>]	
ğ		7647)				LIFETIME-POS=L				[1]
Ш						P5;				[1]
						SEGMENT=BOTH				
			uffer time is 323 sec. xptime - 110 sec							
:		G140L/1280 /LP3	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=26			371 Secs (371 Secs)	
		(COS.sp.182			1280 A	1; FP-POS=3;			[==>]	
		0354)				LIFETIME-POS=L				[1]
						P3;				1-1
						SEGMENT=BOTH				
(Com	ments: Cycle 3	30 comment: exposur	e time updated following FLUXTAB up	date.					
		buffer time is puffer time = e.	520 sec. xptime - 110 sec							
C	6		DARK	S/C, DATA, NONE			QASISTATES COS		1 Secs (1 Secs)	
							FUV HVLOW HVL OW		[==>]	[1]
ŀ	Com	ments: Work-a	round to efficiently s	chedule the reconfiguration to SEG-A.	Eliminates SPSS	induced gaps.				
ſ	7	ACQ/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
		(839564)							[==>]	[2]
C	Com	ments: cycle 2	4 comment: exposure	e times not reduced following updated I	ETC calculations, a	differences not enough to	affect orbit requested.			
ľ	Jycie	e 28 comment.	we continue to use th	he same exposure time since difference	s ao not affect orbi	it request.				

8 G140L/800/ (1) WD0308-565 FUVA/LP3 (COS.sp.145 7778)		G140L 800 A	BUFFER-TIME=25 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	367 Secs (367 Secs) [==>]	[2]
Comments: ETC buffer time is 350 se Set buffer time = exptime - 110 sec	с.				
9 G140L/1105 (1) WD0308-565 /FUVA/LP3 (COS.sp.145 7846)	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	332 Secs (332 Secs) [==>]	[2]
<i>Comments: ETC buffer time is 358 se</i> <i>Set buffer time = exptime - 110 sec</i>	с.				
10 G130M/132 (1) WD0308-565 7/FUVA/LP 5 (COS.sp.145 7657) Comments: ETC buffer time is 324 se set buffer time = exptime - 110 sec		G130M 1327 A	BUFFER-TIME=16 4; FP-POS=3; LIFETIME-POS=L P5; SEGMENT=A	274 Secs (274 Secs) [==>]	[2]





	Proposal 17251, WD0308-C6B	(11), implementation			Tue Jun 13 17:00:54 GMT 2023						
sit	Diagnostic Status: Warning	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV										
Ī	Special Requirements: SCHED	100%; BETWEEN 01-SEP-2023:00:00:00 AND 2	21-SEP-2023:00:00:00								
	Comments: All G160M observat	ions are with $SEGMENT = B$ (i.e. segment A is tur	rned off).								
	1533 & 1577	533 & 1577									
Diagnostics	may apply to observations with (uired to use all four FP-POS positions when obser	ving at a given COS cenwave. S	See the COS Instrument Handbook for exceptions that						
	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous						
ets	(1) WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 149.241 mas/yr	V=14.07+/-0.02	Reference Frame: ICRS						
arge		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr								
a l		Equinox: J2000	Epoch of Position: 2000								
Fixed .	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										

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
	(839564)							[==>]	[1]
Со Су	mments: cycle 2 cle 28 comment	24 comment: exposur t: we continue to use t	e times not reduced following updated the same exposure time since differenc	ETC calculations, es do not affect orb	differences not enough to it request.	o affect orbit request	ed.		
2		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			223 Secs (223 Secs)	
	3/B/LP4 (COS.sp.145 7649)	i		1533 A	BUFFER-TIME=1 3;	1		[==>]	
	,				LIFETIME-POS=L P4;				[1]
					SEGMENT=B				
Co Set	mments: ETC b buffer time = e	ouffer time is 502 sec. exptime - 110 sec.							
3	G160M/157	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			291 Secs (291 Secs)	
	7/B/LP4 (COS.sp.154	1		1577 A	BUFFER-TIME=18	8		[==>]	
	(CO3.sp.134 0036)	r			1; LIFETIME-POS=L				[1]
					P4;				
Co	mmontes ETC h	uffer time is 644 sec.			SEGMENT=B				
Set	buffer time = e	exptime - 110 sec							
4		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			223 Secs (223 Secs)	
	3/B/LP6 (COS.sp.145 7649)	i		1533 A	BUFFER-TIME=1 3;	1		[==>]	
					LIFETIME-POS=L P6;				[1]
					SEGMENT=B				
Co Set	mments: ETC b buffer time = e	ouffer time is 502 sec. exptime - 110 sec.							
5		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			291 Secs (291 Secs)	
	7/B/LP6 (COS.sp.154	Ļ		1577 A	BUFFER-TIME=18	8		[==>]	
	0036)				1; LIFETIME-POS=L				[2]
					P6;				[4]
					SEGMENT=B				
Co Set	mments: ETC b buffer time = e	ouffer time is 644 sec. exptime - 110 sec							
6	G160M/161	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			360 Secs (360 Secs)	
	1/B/LP6 (COS.sp.154	L		1611 A	BUFFER-TIME=2	5		[==>]	
	0046)				0;				(2)
					LIFETIME-POS=L P6;				[2]
					SEGMENT=B				
Co	mments: ETC b	uffer time is 755 sec.							
Set	buffer time = e	exptime - 110 sec							
1									
501	ouger time – e	лрите - 110 sec							

7	G160M/162 (1) WD0308-565	-565 COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	388 Secs (388 Secs)	
	3/B/LP6 (COS.sp.154 0050)		1623 A	BUFFER-TIME=27 8;	[==>]	
	0000)			LIFETIME-POS=L P6;		[2]
				SEGMENT=B		
	Comments: ETC buffer time is 8 et buffer time = exptime - 110 s					

