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



17249 - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

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

INVESTIGATORS

Name	Institution
Dr. Kate Rowlands (PI) (Contact)	Space Telescope Science Institute
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Dr. Marc Rafelski (CoI)	Space Telescope Science Institute
Dr. Bethan Lesley James (CoI) (ESA Member)	Space Telescope Science Institute - ESA - JWST

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

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

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
7B	(1) WD0308-565	COS/FUV COS/NUV	2	24-May-2023 12:00:46.0	yes
8A	DARK COS/NUV S/C		2	24-May-2023 12:00:47.0	yes
8B			2	24-May-2023 12:00:50.0	yes
09			2	24-May-2023 12:00:52.0	yes
10	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	24-May-2023 12:00:54.0	yes
12	(1) WD0308-565	COS/FUV COS/NUV	2	24-May-2023 12:00:56.0	yes
11	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	24-May-2023 12:00:58.0	yes

42 Total Orbits Used

ABSTRACT

The FUV gratings are the most used modes on COS. They have experienced changes in sensitivity since the instrument was installed. The trends in the time-dependent spectroscopic sensitivity depend on the grating, segment and wavelength. This calibration proposal is to monitor the sensitivity of each FUV grating mode at several cenwave settings on an approximately bi-monthly schedule, and to characterize the observed trends.

OBSERVING DESCRIPTION

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

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Each sequence consists of 6 orbits: a 2 orbit visit (target WD0308-565) that covers G130M/1055, G130M/1222, G130M/1291, G130M/1327/FUVA, G140L/800/FUVA, G140L/1105/FUVA,

G140L/1280,

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

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

Proposal 17249 (STScl Edit Number: 5, Created: Wednesday, May 24, 2023 at 11:00:59 AM Eastern Standard Time) - Overview G160M cenwaves per visit.

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

SNR requirements:

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

- The aim is to 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

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

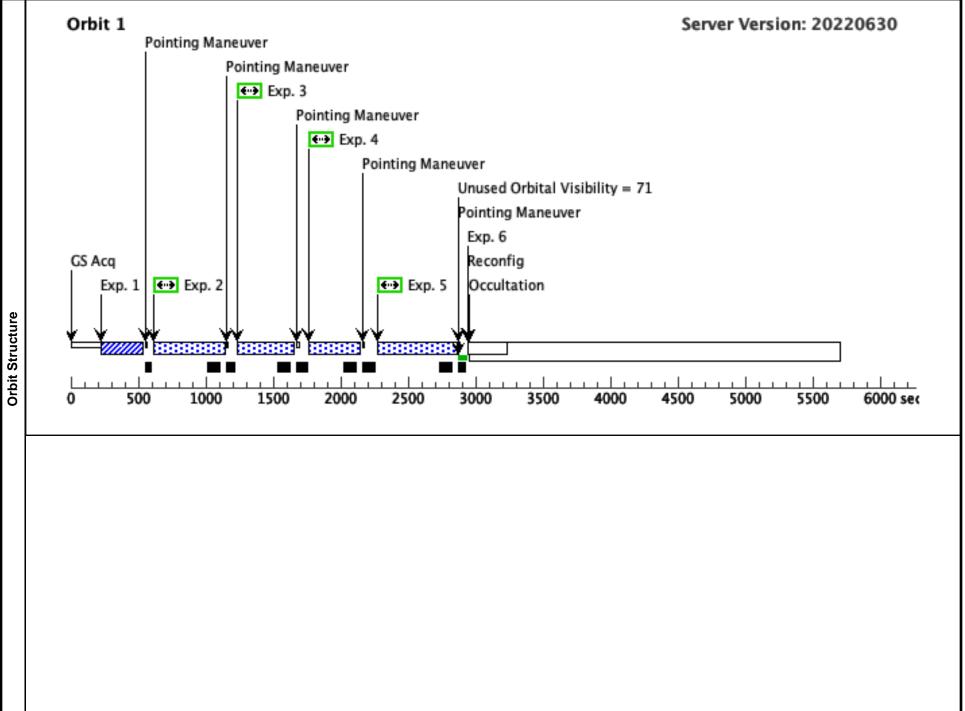
In Cycle 29, an additional NUV ACQ/IMAGE was added at the beginning of the second orbit of the 2 orbit WD0308-565 visits to protect against guide star reaquisition failures, which this particular target is prone to.

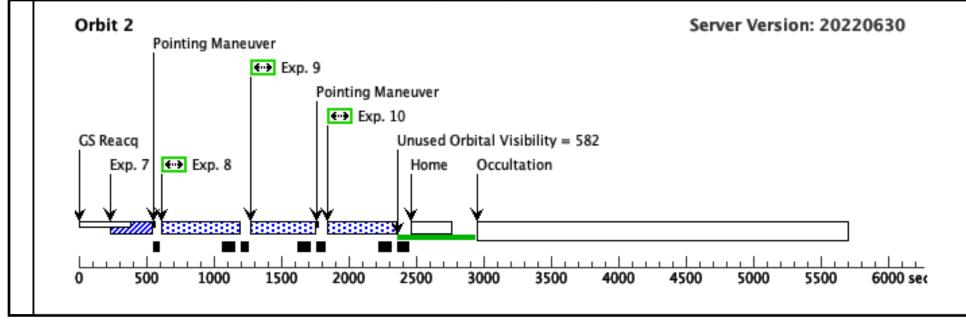
In Cycle 30, the WD0308-565 visit was split into 2x2 orbits to ease scheduling, avoiding 4 orbit visits.

	Proposal 17249, WD0308-DEC	(1A), completed			Wed May 24 16:00:59 GMT 2023					
Visit	Diagnostic Status: Warning									
Ĭ	Scientific Instruments: S/C, COS/FUV, COS/NUV									
	Special Requirements: SCHED 100%; BETWEEN 10-DEC-2022:00:00:00 AND 24-DEC-2022:00:00:00									
Diagnostics	(WD0308-DEC (1A)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.									
	# 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 T		Equinox: J2000	Epoch of Position: 2000							
Fixed		wer from Cycle 25 proposal, checked against SII r, 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
	1	ACQ/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
		(839564)							[==>]	[1]
	Con Cyc	nments: cycle 2 le <u>28 comment</u> :	24 comment: exposure we continue to use	re times not reduced following updated to the same exposure time since difference	ETC calculations, or es do not affect orb	differences 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; EP POS-2:			[==>]	
		0024)				FP-POS=3; SEGMENT=BOTH:				[1]
						LIFETIME-POS=L				[1]
						P2				
	Con	nments: Cycle 2	29 comment: exposu	re time updated following blue modes T	DS and FLUXTAB	l update.				
		C buffer time is buffer time = e:	1377 sec xptime - 110 sec							
	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;				[-]
						SEGMENT=BOTH				
s			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)	
120		1/LP5 (COS.sp.145			1291 A	6; FP-POS=3;			[==>]	
y p		7647)				LIFETIME-POS=L				[1]
Ц						P5;				[1]
						SEGMENT=BOTH				
			uffer time is 323 sec. xptime - 110 sec							1
	5	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				
	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							_
	6		DARK	S/C, DATA, NONE			QASISTATES COS		1 Secs (1 Secs)	
							FUV HVLOW HVL OW		[==>]	[1]
	Con	nments: Work-a	around to efficiently	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]
				re times not reduced following updated			affect orbit requested.			
	Cyci	ie 28 comment.	: we continue to use	the same exposure time since difference	's ao not affect orb	it request.				
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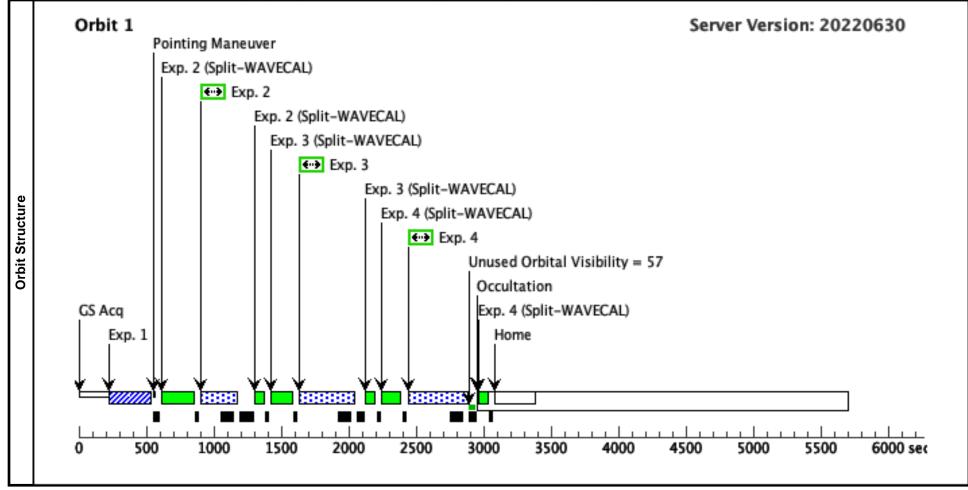
8 G140L/800/ (1) WD0308-565 FUVA/LP3 (COS.sp.145 7778)	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=25 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	<u>367 Secs (367 Secs)</u> [==>]	[2]
<i>Comments: ETC buffer time is 350 sec.</i> <i>Set buffer time = exptime - 110 sec</i>					
9 G140L/1105 (1) WD0308-565 /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)	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]
<i>Comments: ETC buffer time is 324 sec.</i> <i>set buffer time = exptime - 110 sec</i>					





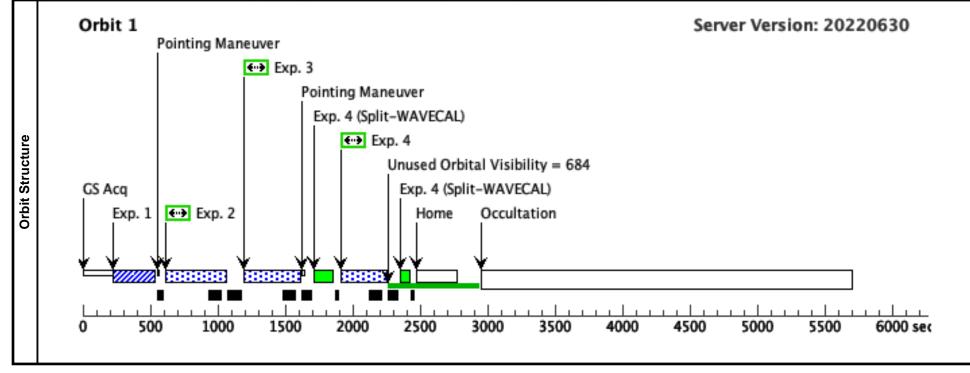
	Proposal 17249, WD0308-DEC	(1B), completed		•	Wed May 24 16:00:59 GMT 2023				
	Diagnostic Status: Warning								
<u>.</u>	Scientific Instruments: COS/FUV, COS/NUV								
/is	Special Requirements: SCHED 1	Special Requirements: SCHED 100%; BETWEEN 10-DEC-2022:00:00:00 AND 24-DEC-2022:00:00:00; GROUP 1B,1C WITHIN 7D							
[Comments: All G160M observation program which needs both segments	ions are with SEGMENT = BOTH. Using "SEGM ents monitored at LP4 and LP6. (FUVA is also ob	ENT=BOTH" instead of "SEGMENT=B" for both oserved for G160M using GD71 in visit 02).	h LP4 and LP6 observations for	the G160M settings to support a Cycle 30 GO				
	1533 & 1577 LP4. Split over visi	its 1B and 1C due to scheduling constraints.							
Diagnostics									
6	# 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				
arg		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr						
Equinox: J2000 Epoch of Position: 2000									
Fixed	Comments: Coordinates carried Proper motions changed to mas/ Category=STAR	over from Cycle 25 proposal, checked against SIM 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 Cyc	nments: cycle 2 le 28 comment:	4 comment: exposure we continue to use th	e times not reduced following updated he same exposure time since difference	ETC calculations, a es do not affect orbi	lifferences not enough to it request.	o affect orbit requeste	ed.		
2		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			223 Secs (223 Secs)	
	3/BOTH/LP 6 (COS.sp.145			1533 A	BUFFER-TIME=11 3;			[==>]	
	7649)				LIFETIME-POS=L P6;				[1]
					SEGMENT=BOTH				
Con Set		uffer time is 502 sec. xptime - 110 sec.							
Con Set 3		(1) WD0308-565	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;	5		[==>]	
	0046)				LIFETIME-POS=L P6;				[1]
					SEGMENT=BOTH				
		uffer time is 755 sec. xptime - 110 sec							
4		(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;	1		[==>]	
	(COS.sp.154 0050)				LIFETIME-POS=L P6;				[1]
1					SEGMENT=BOTH				
		uffer time is 814 sec. xptime - 110 sec							



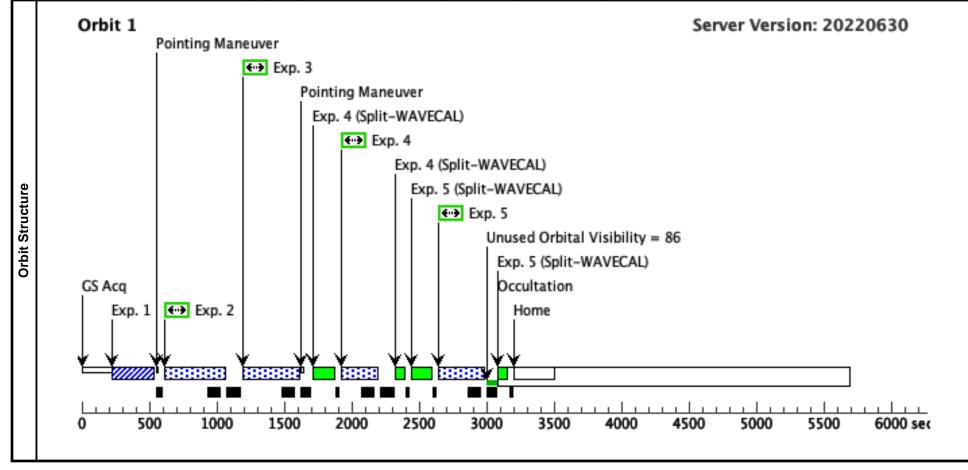
Γ	Proposal 17249 - VVDOC				Wed May 24 16:00:59 GMT 2023				
	Diagnostic Status: Warning								
	Scientific Instruments: COS/FUV	/, COS/NUV							
/is	Special Requirements: SCHED 100%; BETWEEN 10-DEC-2022:00:00:00 AND 24-DEC-2022:00:00:00; GROUP 1C,1B WITHIN 7D								
[omments: All G160M observations are with SEGMENT = BOTH. Using "SEGMENT=BOTH" instead of "SEGMENT=B" for both LP4 and LP6 observations for the G160M settings to support a Cycle 30 GO rogram which needs both segments monitored at LP4 and LP6. (FUVA is also observed for G160M using GD71 in visit 02).							
	1533 & 1577 LP4. Split over visi	ts 1B and 1C due to scheduling constraints.							
Diagnostics	(WD0308-DEC (1C)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.								
	# 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 I		Equinox: J2000	Epoch of Position: 2000						
Fixed .		over from Cycle 25 proposal, checked against SIN yr, 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
1	ACQ/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
	(839564)							[==>]	[1]
Con Cyc	mments: cycle 2 cle 28 comment	4 comment: exposure we continue to use th	times not reduced following updated he same exposure time since difference	ETC calculations, a es do not affect orbi	differences not enough to it request.	o affect orbit requeste	ed.		
2		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			223 Secs (223 Secs)	
	3/BOTH/LP 4 (COS.sp.145			1533 A	BUFFER-TIME=11 3;			[==>]	
	(COB.sp.145 7649)				LIFETIME-POS=L P4;				[1]
					SEGMENT=BOTH				
Con Set		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)	
Con Set 3	7/BOTH/LP 4 (COS.sp.154			1577 A	BUFFER-TIME=18 1;	;		[==>]	
	0036)				LIFETIME-POS=L P4;				[1]
					SEGMENT=BOTH				
		uffer time is 644 sec. xptime - 110 sec							
4	G160M/157	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			291 Secs (291 Secs)	
	7/BOTH/LP 6 (COS.sp.154			1577 A	BUFFER-TIME=18 1;	6		[==>]	
	(COS.sp.154 0036)				LIFETIME-POS=L P6;				[1]
					SEGMENT=BOTH				
		uffer time is 644 sec. xptime - 110 sec							



	Proposal 17249, WD0308-DEC				Wed May 24 16:00:59 GMT 2023						
	Diagnostic Status: Warning	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV										
Visit	Special Requirements: SCHED 8	Special Requirements: SCHED 80%									
>		ons are with SEGMENT = BOTH. Using "SEGM ents monitored at LP4 and LP6. (FUVA is also ob	ENT=BOTH" instead of "SEGMENT=B" for both served for G160M using GD71 in visit 02).	h LP4 and LP6 observations for	the G160M settings to support a Cycle 30 GO						
		ts 1B and 1C due to scheduling constraints. illed visit 1C. 1533 LP6 exposure from visit 1B re	peated here to ensure the fidelity of the LP4-LP6 o	connection.							
Diagnostics	(WD0308-DEC (1D)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.										
	# 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						
١ ð		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr								
a I	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]									

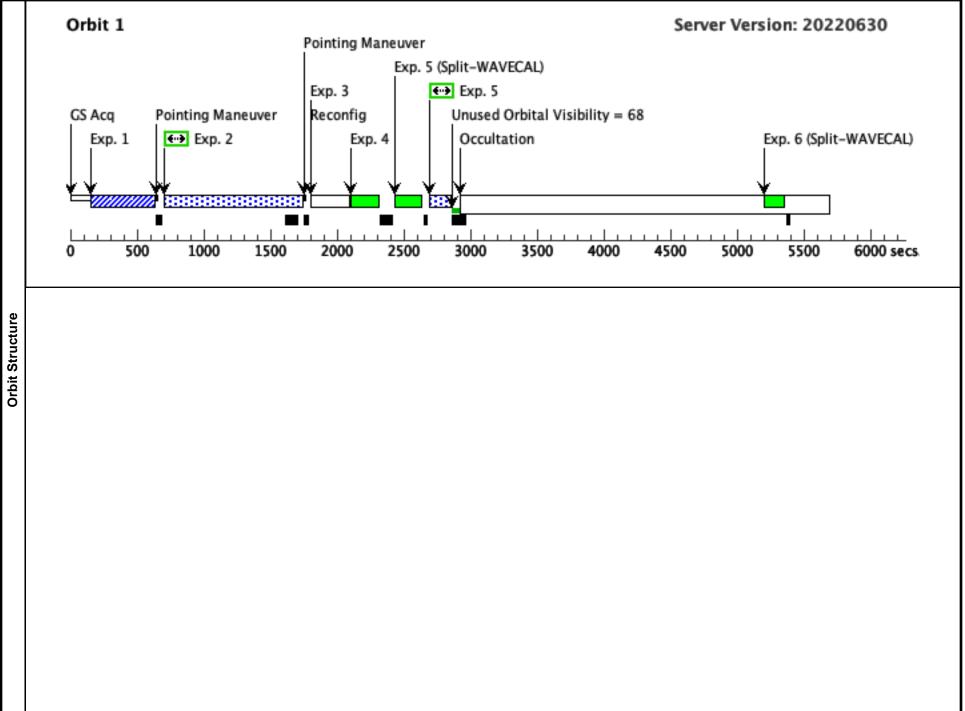
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
	(839564)							[==>]	[1]
Сог Сус	mments: cycle 2 cle 28 comment.	24 comment: exposure : we continue to use t	e times not reduced following updated he same exposure time since difference	ETC calculations, a es do not affect orb	lifferences not enough to it request.	affect orbit requeste	ed.		
2		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			223 Secs (223 Secs)	
	3/BOTH/LP 4 (COS.sp.145			1533 A	BUFFER-TIME=11 3;			[==>]	
	(COS.sp.143 7649)				LIFETIME-POS=L P4;				[1]
					SEGMENT=BOTH				
		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/BOTH/LP 4			1577 A	BUFFER-TIME=18			[==>]	
8	(COS.sp.154				1;				
	0036)				LIFETIME-POS=L P4:				[1]
٤I					SEGMENT=BOTH				
Con Set	mments: ETC bi 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/BOTH/LP 6			1533 A	BUFFER-TIME=11			[==>]	
	(COS.sp.145				3;				
	7649)				LIFETIME-POS=L P6:				[1]
					SEGMENT=BOTH				
		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 (COS.sp.154			1577 A	BUFFER-TIME=18 1;			[==>]	
	0036)				LIFETIME-POS=L P6;				[1]
					SEGMENT=BOTH				
Cor Set	mments: ETC bi	uffer time is 644 sec. xptime - 110 sec							

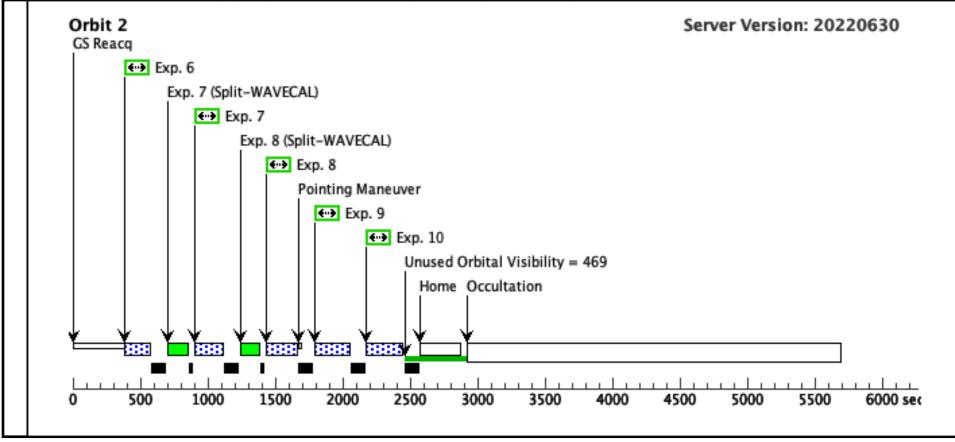


	Proposal 17249 - GD7	(02) completed			Wed May 24 16:00:59 GMT 2023
	Diagnostic Status: Warning	(02); completed			Wed Way 24 10.00.59 GWH 2025
	Scientific Instruments: S/C, C	DS/FUV, COS/NUV			
isit	Special Requirements: SCHEI	D 100%; BETWEEN 10-DEC-2022:00:00:00 AND	24-DEC-2022:00:00:00		
	George Chapman added Expo	avecal to calculate the OSM shifts of the G130M/10 sure 3 ith SEGMENT = A (i.e. segment B is turned off).	96/FUVB observation		
	1533 & 1577 LP4				
Diagnostics	may apply to observations with	Target Coordinates	Targ. Coord. Corrections	Fluxes	e the COS Instrument Handbook for exceptions that Miscellaneous
ŝ		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	V=15.0017 0.01	Reference France. Texts
Tar		Equinox: J2000	Epoch of Position: 2000		
Γσ	Comments: Co-ordinates and				

#	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	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs)	
	(COD.td.05) 574)							[==>]	[1]
Co Cy	mments: Exptin cle 28 comment	ne 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; ED DOS 2:			[==>]	
	(COS.sp.182 0351)				FP-POS=3; SEGMENT=B;				
	0551)				LIFETIME-POS=L				[1]
					P2				
Co	mments: Cycle .	30 comment: ex	posure time updated following FLUXTAB u	pdate.					
Th	IVB only (all ET e FUVB count r t buffer-time = e	ate is 549 cts/se	ne from FUVA). c, so the buffer time is 2.35E6/566 = 4280 s c	ec.					
3	<i></i>	DARK	S/C, DATA, NONE			QASISTATES COS	5	1 Secs (1 Secs)	
						FUV HVLOW HVI OW	_	[==>]	[1]
Co	mments: Work-	around to efficie	ently schedule the SEG-B to SEG-A reconfig	uration Eliminate	s SPSS induced gaps	0			. ,
4	G130M/109	00	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]
e l					LIFETIME-POS=L				
	per 2017 and Ap	ril 2020.	e time has been updated to 160 seconds. Th	is was determined o	P2 after characterizing the a	lecrease by about 12 p	percent in the summ	ed count-rate with time over the period betw	ween 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]
	(000)				LIFETIME-POS=L				[1]
					P6				
Th	mments: FUVA e FUVA count r t buffer-time = e	ate is 9240 cts/s	varnings come from FUVB). 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]
	/001)				LIFETIME-POS=L				[2]
					P6				
Th	omments: FUVA e FUVA count r t buffer-time = e	ate is 6674 cts/s	varnings come from FUVB). ec, so the buffer time is 2.35E6/6674 = 352	sec.					
~		- <i>T</i>							

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/se Set buffer-time = exptime	arnings come from FUVB). ec, 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	ec, 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 we The FUVA count rate is 9240 cts/se Set buffer-time = exptime	arnings come from FUVB). ec, 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 wa The FUVA count rate is 6674 cts/se Set buffer-time = exptime	arnings come from FUVB). ec, so the buffer time is 2.35E6/6674 = 35	2 sec.			1

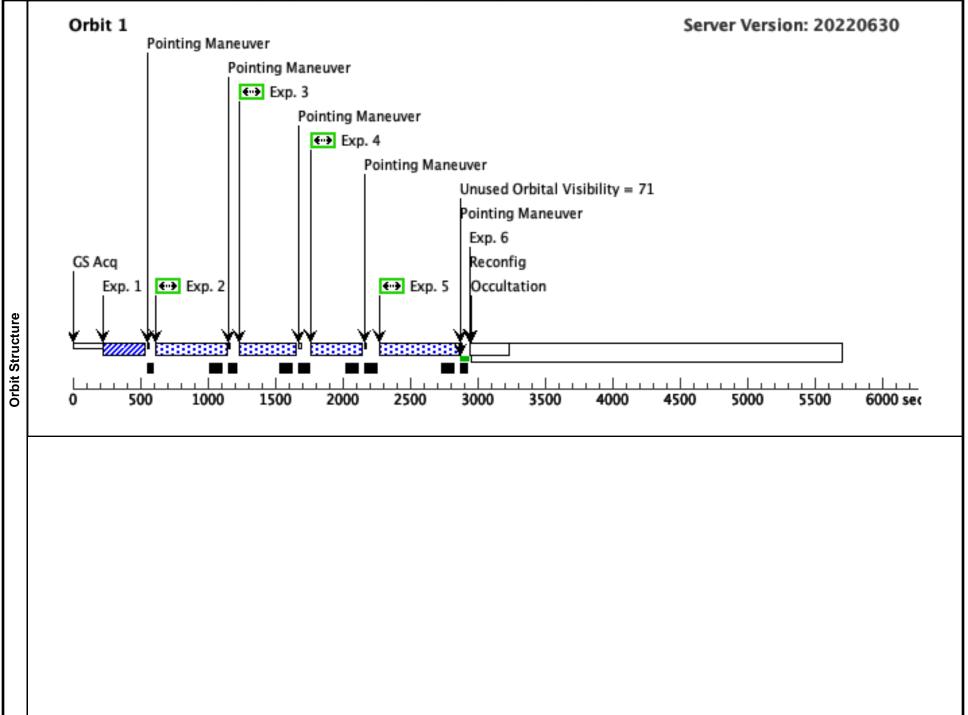


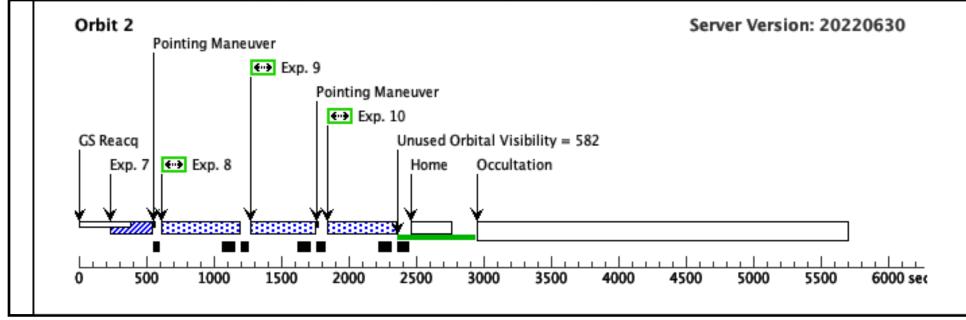


	Proposal 17249, WD0308-FEB				Wed May 24 16:00:59 GMT 2023
isit	Diagnostic Status: Warning				
Ĭ	Scientific Instruments: S/C, COS	/FUV, COS/NUV			
	Special Requirements: SCHED 1	00%; BETWEEN 03-FEB-2023:00:00:00 AND 2	24-FEB-2023:00:00:00		
Diagnostics	(WD0308-FEB (3A)) Warning (F that may apply to observations 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
l g		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr		
Ta		Equinox: J2000	Epoch of Position: 2000		
Fixed	Comments: Coordinates carried of Proper motions changed to mas/y Category=STAR Description=[DB] Extended=NO	over from Cycle 25 proposal, checked against Sli rr, from SIMBAD, also using the GAIA DR2 cata.	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
Ī	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
	Con		A commant exposur	e times not reduced following updated E	ETC calculations	differences not anough to	affect orbit requested		[==>]	[1]
ļ	Com Cycl	ele 28 comment:	: we continue to use the	the same exposure time since difference.	es do not affect orbi	nit request.	affect orbit requesiea.			
	2	G130M/105 5/LP2	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=20 8;			318 Secs (318 Secs)	- <u> </u>
	i	(COS.sp.154 0024)			1055 A	FP-POS=3;			[==>]	
	i	0024)				SEGMENT=BOTH;	,			[1]
	1					LIFETIME-POS=L P2				
	Con	nments: Cycle 2	29 comment: exposur	re time updated following blue modes Th	'DS and FLUXTAB					4
	ETC Set l	C buffer time is buffer time = ex	1377 sec exptime - 110 sec							
	3	G130M/122 2/LP4	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=15 7;			267 Secs (267 Secs)	
	1	(COS.sp.145			1222 A	FP-POS=3;			[==>]	
	1	7646)				LIFETIME-POS=L				[1]
	1					P4; SEGMENT=BOTH				
			uffer time is 392 sec.							
es	Set \underline{k}		(1) WD0208 565	COSTENT THE TAC DEA	G130M	DIFEED TIME_12			226 Bass (226 Bass)	1
Exposures	4	1/LP5	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=12 6;			236 Secs (236 Secs) [==>]	+
öd	1	(COS.sp.145 7647)			12/111	FP-POS=3;				
ы	1					LIFETIME-POS=L P5;				[1]
	1					SEGMENT=BOTH				
		<i>buffer time = ex</i>	uffer time is 323 sec. exptime - 110 sec							
	5	G140L/1280 /LP3	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=26 1;			371 Secs (371 Secs)	
	i	(COS.sp.182 0354)			1280 A	FP-POS=3;			[==>]	
	i	0554)				LIFETIME-POS=L				[1]
	1					P3; SEGMENT=BOTH				
	Con	nments: Cycle.	30 comment: exposur	re time updated following FLUXTAB up	ədate.					
		C buffer time is buffer time = ex	520 sec. exptime - 110 sec							
	6		DARK	S/C, DATA, NONE			QASISTATES COS		1 Secs (1 Secs)	
	1						FUV HVLOW HVL OW		[==>]	[1]
ļ	Com			schedule the reconfiguration to SEG-A.		induced gaps.				
	7	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
	Con		A commont exposur	e times not reduced following updated E	ETC calculations	differences not enough to	affect orbit requested		[==>]	[2]
				the same exposure time since difference.			ајјест огон гедиемен.			

FUV	0L/800/ (1) WD0308-565 /A/LP3 S.sp.145 8)	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]
	s: ETC buffer time is 350 sec. time = exptime - 110 sec			P3		
/FUV	0L/1105 (1) WD0308-565 VA/LP3 S.sp.145 6)	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]
	s: ETC buffer time is 358 sec. time = exptime - 110 sec					
7/FU 5	0M/132 (1) WD0308-565 JVA/LP S.sp.145 7)	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]
	s: ETC buffer time is 324 sec. time = exptime - 110 sec					·

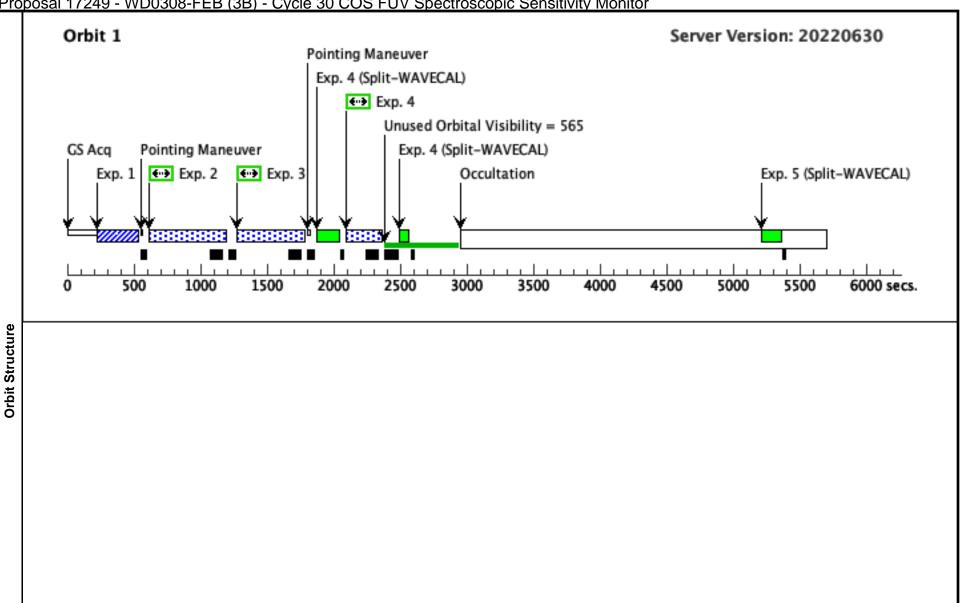


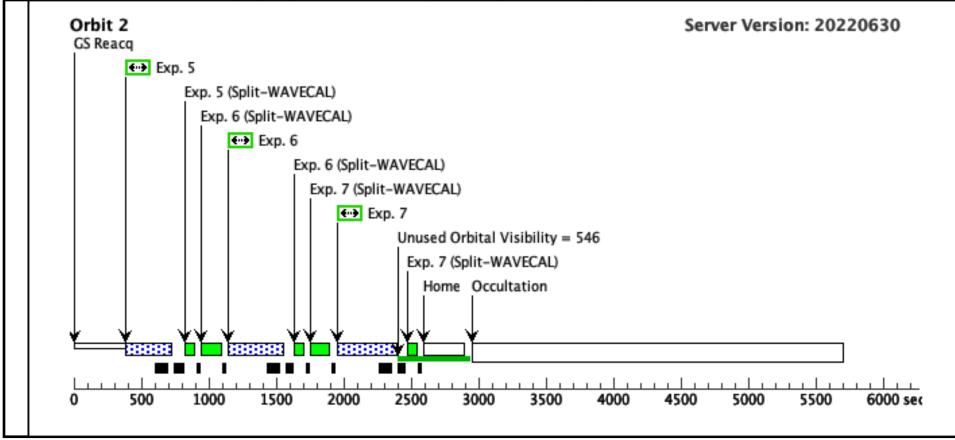


	Proposal 17249, WD0308-FEB	(3B), completed			Wed May 24 16:00:59 GMT 2023					
	Diagnostic Status: Warning									
s;	Scientific Instruments: COS/FU	V, COS/NUV								
lÿ	Special Requirements: SCHED 100%; BETWEEN 03-FEB-2023:00:00:00 AND 24-FEB-2023:00:00:00									
	Comments: All G160M observat	Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).								
	1611 & 1623 LP4									
nostics	(wD0308-FEB (3B)) warning (that may apply to observations v		uired to use all four FP-POS positions when obser	rving at a given COS cenwave.	See the COS Instrument Handbook for exceptions					
Diagn										
	# 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	ACQ/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
	(839564)							[==>]	[1]
Сог Сус	nments: cycle 2 cle 28 comment	24 comment: exposure : 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 t pit request.	o affect orbit request	ed.		
2	G160M/161	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			360 Secs (360 Secs)	
	1/B/LP4 (COS.sp.154 0046)			1611 A	BUFFER-TIME=2 0;	5		[==>]	
	0010)				LIFETIME-POS=L P4;	_			[1]
					SEGMENT=B				
		uffer time is 755 sec. xptime - 110 sec							
3	G160M/162	(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=2	7		[==>]	
	0050)				8; LIFETIME-POS=L				[1]
					P4; SEGMENT=B				
Cor	nments: ETC b	uffer time is 814 sec.			SEGMENT-D				
	$buffer\ time = e$	xptime - 110 sec		C 1 (0) I					<u> </u>
4	3/B/LP6	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3;	1		223 Secs (223 Secs)	
	(COS.sp.145 7649)			1555 A	BUFFER-TIME=1 3;	1		[==>]	
	7049)				LIFETIME-POS=L P6;				[1]
					SEGMENT=B				
		uffer time is 502 sec. xptime - 110 sec.							
5	G160M/157	(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=1	8		[==>]	
	0036)				1; LIFETIME-POS=L				[2]
					P6;	_			[2]
					SEGMENT=B				
Cor Set	nments: ETC b buffer time = e	uffer time is 644 sec. xptime - 110 sec							
6	G160M/161	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			360 Secs (360 Secs)	
1	1/B/LP6 (COS.sp.154			1611 A	BUFFER-TIME=2	5		[==>]	
	0046)				0; LIFETIME-POS=L				[2]
					P6;	<u>.</u>			[2]
					SEGMENT=B				
Con	nments: ETC b	uffer time is 755 sec. xptime - 110 sec							
Set	oujjer time = e	хрите - 110 sec							
1									
1									

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;	388 Secs (388 Secs) [==>]	[2]
			LIFETIME-POS=L P6;		[2]
			SEGMENT=B		
Comments: ETC buffer time is 814 sec. et buffer time = exptime - 110 sec					

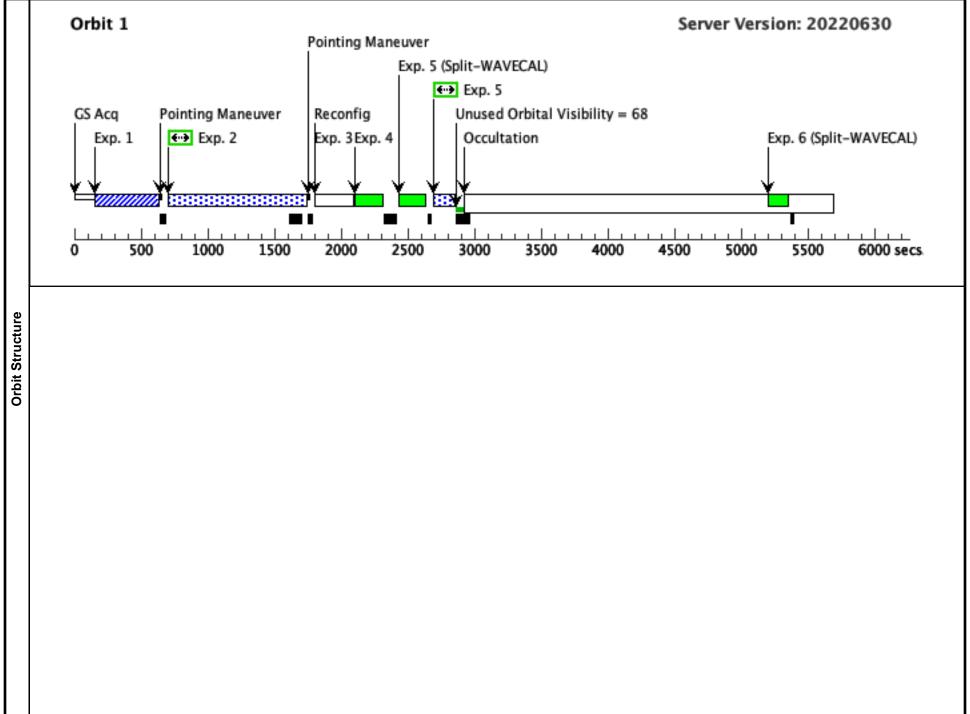


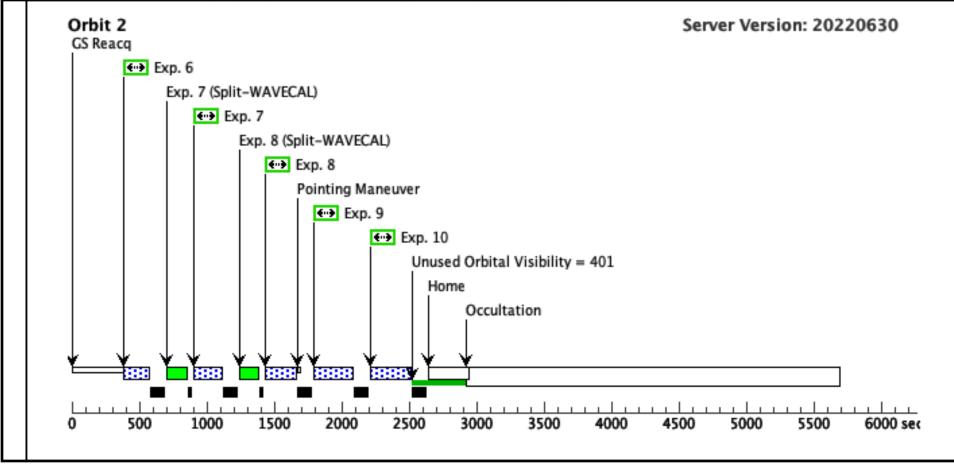


	Proposal 17249, GD71-FEB	(04), failed			Wed May 24 16:00:59 GMT 2023						
	Diagnostic Status: Warning										
	Scientific Instruments: S/C, C	OS/FUV, COS/NUV									
Visit	Special Requirements: SCHE	Special Requirements: SCHED 100%; BETWEEN 10-FEB-2023:00:00:00 AND 24-FEB-2023:00:00:00									
5	Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation										
	George Chapman added Expe	osure 3 with $SEGMENT = A$ (i.e. segment B is turned off).									
		V(n SEGMENT = A(n.e. segment B is further 0)).									
	1611 & 1623 LP4										
Diagnostics	may apply to observations wi	Form): For the best data quality, it is generally require th G130M/1291 or G160M.			the COD mistranion manabook for exceptions that						
	# 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						
Įğ		Dec: +15 53 13.23 (15.88701d)	Proper Motion Dec: -172.944 mas/yr								
ש		Equinox: J2000	Epoch of Position: 2000								
		Equiliox. J2000	Epoch of Fosition. 2000								

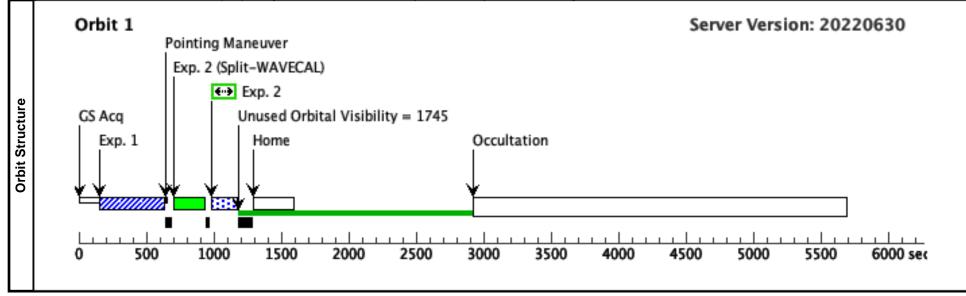
	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IM	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs)	
		(COŠ.ta.839 574)							[==>]	[1]
	Con	nments: See Vis	sit 02 comments.							
	2	G130M/109	(2) GD71	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=71			829 Secs (829 Secs)	
		6/FUVB/LP 2			1096 A	9; FP-POS=3;			[==>]	
		(COS.sp.182 0351)				SEGMENT=B;				[1]
		0001)				LIFETIME-POS=L				[1]
	Con	umanta, Cuala	20 acroments are	osure time updated following FLUXTAB u	ndata	P2				
		2								
	FU The Set i	VB only (all ET FUVB count re buffer-time = e.	C warnings com ate is 549 cts/sec exptime - 110 sec	e from FUVA). , so the buffer time is 2.35E6/566 = 4280 s	sec.					
	3		DARK	S/C, DATA, NONE			QASISTATES COS		1 Secs (1 Secs)	
							FUV HVLOW HVL OW		[==>]	[1]
	Con	nments: Work-a	around to efficien	tly schedule the SEG-B to SEG-A reconfig	uration. Eliminate	es SPSS induced gaps.				
	4	G130M/109	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;			160 Secs (160 Secs)	
		6/FUVA W AVECAL/L			1096 A	SEGMENT=A;			[==>]	
~		P2				FLASH=NO;				[1]
Exposures						LIFETIME-POS=L P2				
ารต	Con	nments: See Vis	sit 02 comments.							
ğ	5	G160M/153		COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=10			106 Secs (106 Secs)	
Ш́		3/FUVA/LP 6			1533 A	6;			[==>]	
		(COS.sp.145				FP-POS=3;				[1]
		7660)				SEGMENT=A; LIFETIME-POS=L				[1]
						P6				
	Con	nments: See Vis	sit 02 comments.							1
	6	G160M/157 7/FUVA/LP	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=13			135 Secs (135 Secs)	
		6			1577 A	5; FP-POS=3;			[==>]	
		(COS.sp.145 7661)				SEGMENT=A;				[2]
		,				LIFETIME-POS=L				
						P6				
	Con		sit 02 comments.		~ ~ ~ ~ ~					1
	7	G160M/161 1/FUVA/LP	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=15 9;			159 Secs (159 Secs)	
		6 (COS.sp.154			1611 A	FP-POS=3;			[==>]	
		(COS.sp.154 0058)				SEGMENT=A;				[2]
						LIFETIME-POS=L P6				
	Con	nments· FI/VA	only (all ETC w	urnings come from FUVB).		10			L	1
	The	FUVA count re	ate is 5172 cts/se	c, so the buffer time is $2.35E6/5172 = 454$	sec.					
	Set	buffer-time = e.	лрите							

8 G160M/162 (2) GD71 3/FUVA/LP 6 (COS.sp.145 7663) Comments: See Visit 02 comments.	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]
9 G160M/161 (2) GD71 1/FUVA/LP 4 (COS.sp.154 0058) Comments: FUVA only (all ETC w.	COS/FUV, TIME-TAG, PSA	G160M 1611 A 4 sec.	BUFFER-TIME=15 9; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	159 Secs (159 Secs) [==>]	[2]
10 G160M/162 (2) GD71 3/FUVA/LP 4 (COS.sp.145 7663) Comments: See Visit 02 comments.	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=17 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	177 Secs (177 Secs) [==>]	[2]





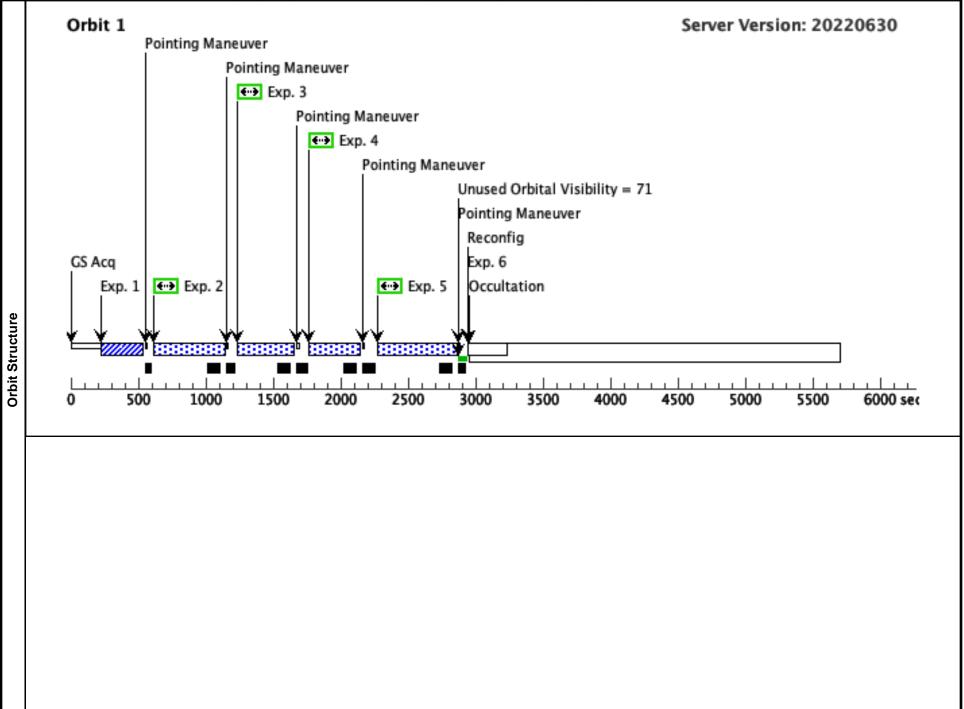
	Proposal 17249, GD71-FEB (54	-FED (34) - Cycle 30 COS I I). completed				01	Wed May 24 16:00:59	9 GMT 2023
	Diagnostic Status: Warning	// ·····F·····						
.±	Scientific Instruments: COS/FUV	/. COS/NUV						
Visit		00%; BETWEEN 10-FEB-2023:00:00:00 AN	ND 24-MAR-2023	00.00.00				
1	Comments: Repeat of failed visit							
	* 00	* *						
		A SEGMENT = A (i.e. segment B is turned off						
Diagnostics	(GD/1-FEB (54)) Warning (Forn may apply to observations with C	n): For the best data quality, it is generally read 130M/1291 or G160M.	quired to use all fou	r FP-POS positions who	en observing at a	given COS cenwave. So	ee the COS Instrument Handbook for except	tions that
	# Name	Target Coordinates	Targ.	Coord. Corrections		Fluxes	Miscellaneous	
ţ	(2) GD71	RA: 05 52 27.6200 (88.1150833d)	Proper	Motion RA: 76.841 ma	s/yr	V=13.06+/-0.01	Reference Frame: ICRS	
ge		Dec: +15 53 13.23 (15.88701d)	Proper	Motion Dec: -172.944	mas/yr			
Targets		Equinox: J2000	Epoch	of Position: 2000				
Fixed		oper motions updated with values from SIMB. linates are in decimal places in seconds of tin						
	# Label Target (ETC Run)	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1 ACQ/IM (2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs)	
	(COŠ.ta.839 574)						[==>]	[1]
l e	Comments: See Visit 02 comment	to						
Exposures	2 G160M/157 (2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=13			135 Secs (135 Secs)	
8	7/FUVA/LP		1577 A	5;			[==>]	
Ш	6 (COS.sp.145		137711	FP-POS=3;			1	
	7661)			SEGMENT=A;				[1]
				LIFETIME-POS=L				
				P6				
	Comments: See Visit 02 comment	ts.						

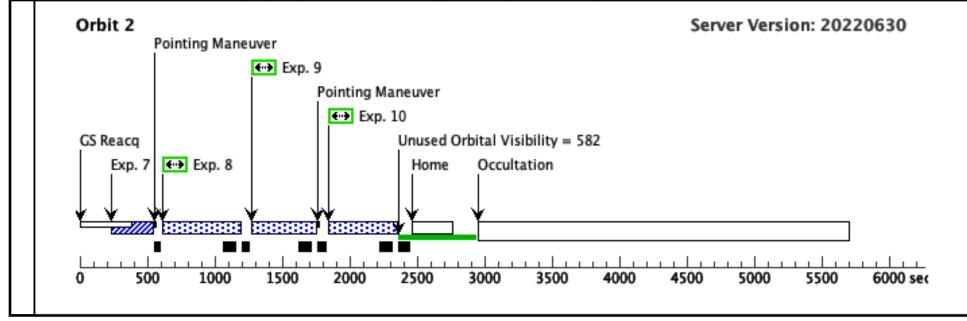


	Proposal 17249, WD0308-APR	(5A), failed			Wed May 24 16:00:59 GMT 2023									
sit	Diagnostic Status: Warning													
Š	Scientific Instruments: S/C, COS/	/FUV, COS/NUV												
	Special Requirements: SCHED 100%; BETWEEN 10-APR-2023:00:00:00 AND 24-APR-2023:00:00:00													
Diagnostics	u ag													
	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous									
ŝts	(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									
rgets		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr											
Ta		Equinox: J2000	Epoch of Position: 2000											
Fixed		wer from Cycle 25 proposal, checked against Sli r, from SIMBAD, also using the GAIA DR2 cata.												

	#	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 Cyc	nments: cycle 2 le 28 comment:	4 comment: exposure we continue to use the	e times not reduced following updated I he same exposure time since difference	ETC calculations, o <u>s do not affect orb</u>	differences 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)				FP-POS=3; SEGMENT=BOTH:				[]]]
						LIFETIME-POS=L				[1]
						P2				
	Con	nments: Cycle 2	29 comment: exposure	e time updated following blue modes T	DS and FLUXTAB	update.				
		C buffer time is buffer time = e.	1377 sec xptime - 110 sec							
	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; ED DOS-2:			[==>]	
		7646)				FP-POS=3; LIFETIME-POS=L				[1]
						P4;				
						SEGMENT=BOTH				
s			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)	
osl		1/LP5 (COS.sp.145			1291 A	6; FP-POS=3;			[==>]	
ă		7647)				LIFETIME-POS=L				[1]
Ц						P5;				[1]
						SEGMENT=BOTH				
			ıffer time is 323 sec. xptime - 110 sec							
	5	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]
						SEGMENT=BOTH				
	Con	nments: Cycle 3	30 comment: exposure	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		1 Secs (1 Secs)	
							FUV HVLOW HVL OW		[==>]	[1]
	Con	nments: Work-a	round to efficiently s	chedule 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 i he same exposure time since difference			affect orbit requested.			

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	<u>367 Secs (367 Secs)</u> [==>]	[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)	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]
Comments: ETC buffer time is 324 sec. set buffer time = exptime - 110 sec					

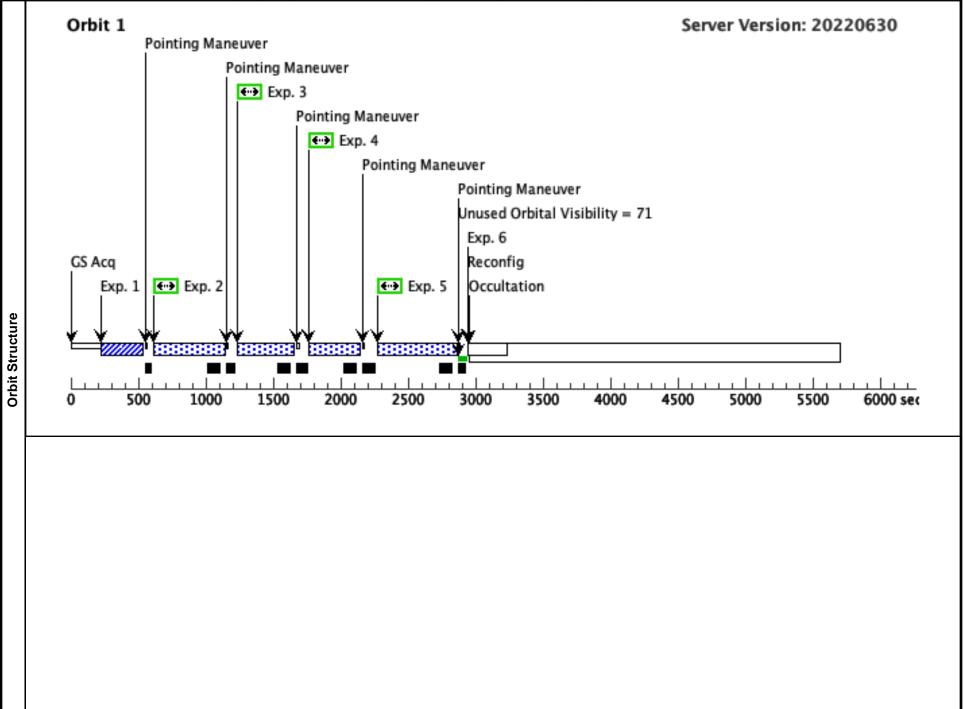


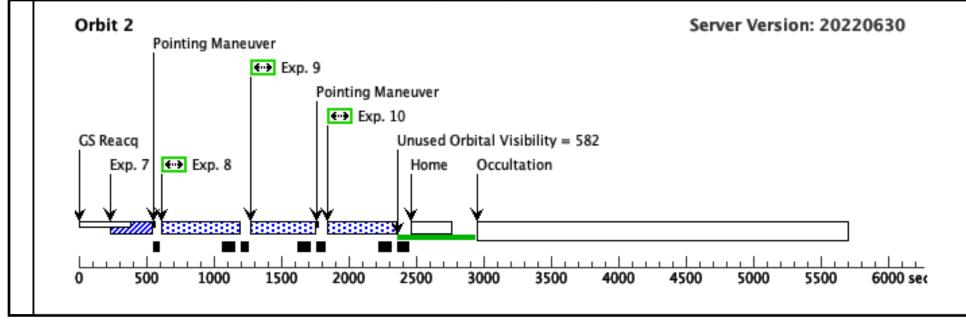


	Proposal 17249, WD0308-APR	(5C), scheduled			Wed May 24 16:01:00 GMT 2023
<u>=</u>	Diagnostic Status: Warning				
/isi	Scientific Instruments: S/C, COS	/FUV, COS/NUV			
1	Special Requirements: SCHED 1	00%			
	Comments: This is a copy of the	failed visit 5A.			
Diagnostics	(WD0308-APR (5C)) Warning (that 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 obser	rving at a given COS cenwave.	See the COS Instrument Handbook for exceptions
	# 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
ğ		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr		
ต		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]
	Com Cyci	iments: cycle 2 le 28 comment.	4 comment: exposure : we continue to use th	e times not reduced following updated I he same exposure time since difference	ETC calculations, a state of the second s	<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 DOG 2:			[==>]	
		0024)				FP-POS=3; SEGMENT=BOTH;				
						LIFETIME-POS=L				[1]
						P2				
	Com	ments: Cycle 2	29 comment: exposure	e time updated following blue modes T	DS and FLUXTAB	update.				
		C buffer time is buffer time = e.	1377 sec xptime - 110 sec							
	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; ED DOS-2:			[==>]	
		7646) ¹				FP-POS=3; LIFETIME-POS=L				[1]
						P4;				[1]
						SEGMENT=BOTH				
			uffer time is 392 sec. xptime - 110 sec							
are:	4		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=12			236 Secs (236 Secs)	-
ost		1/LP5 (COS.sp.145			1291 A	6; FP-POS=3;			[==>]	
Exposures		7647)				LIFETIME-POS=L				[1]
ш						P5;				[1]
						SEGMENT=BOTH				
			uffer time is 323 sec. xptime - 110 sec							
	5	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;				[-]
						SEGMENT=BOTH				
	Com	ments: Cycle 3	30 comment: exposure	e time updated following FLUXTAB up	date.					
		E buffer time is buffer time = e.	520 sec. xptime - 110 sec							
	6		DARK	S/C, DATA, NONE			QASISTATES COS		1 Secs (1 Secs)	_
							FUV HVLOW HVL OW		[==>]	[1]
	Con	ments: Work-a	around to efficiently s	chedule 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]
				times not reduced following updated l			affect orbit requested.			
	Cyci	le 28 comment.	: we continue to use th	he same exposure time since difference	s do 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	<u>367 Secs (367 Secs)</u> [==>]	[2]
Comments: ETC buffer time is 350 set 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 set 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 set set buffer time = exptime - 110 sec	COS/FUV, TIME-TAG, PSA c.	G130M 1327 A	BUFFER-TIME=16 4; FP-POS=3; LIFETIME-POS=L P5; SEGMENT=A	274 Secs (274 Secs) [==>]	[2]

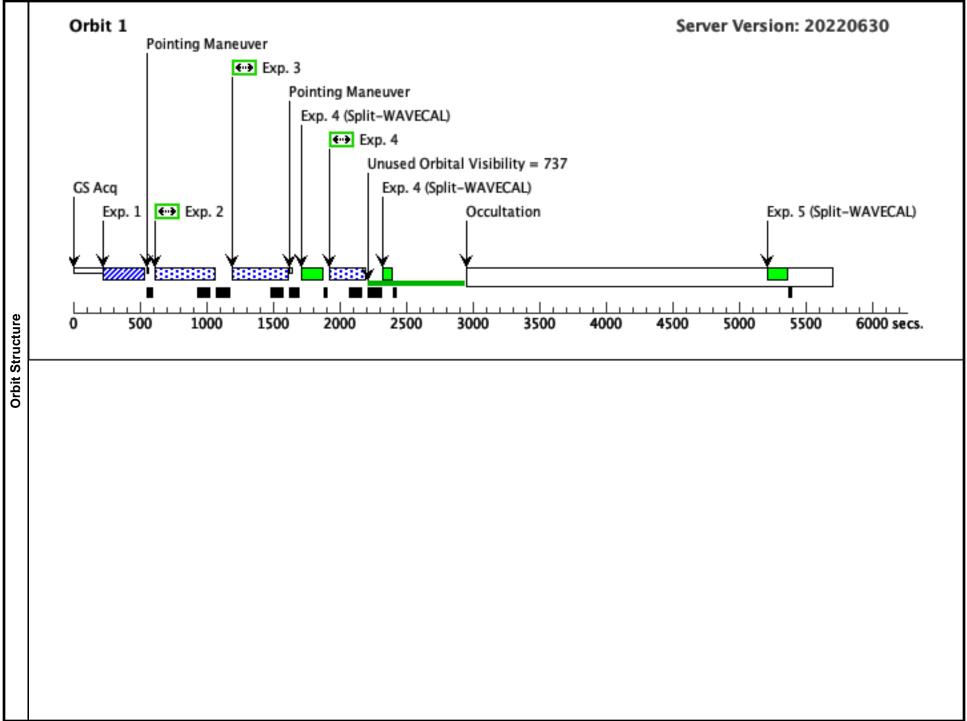


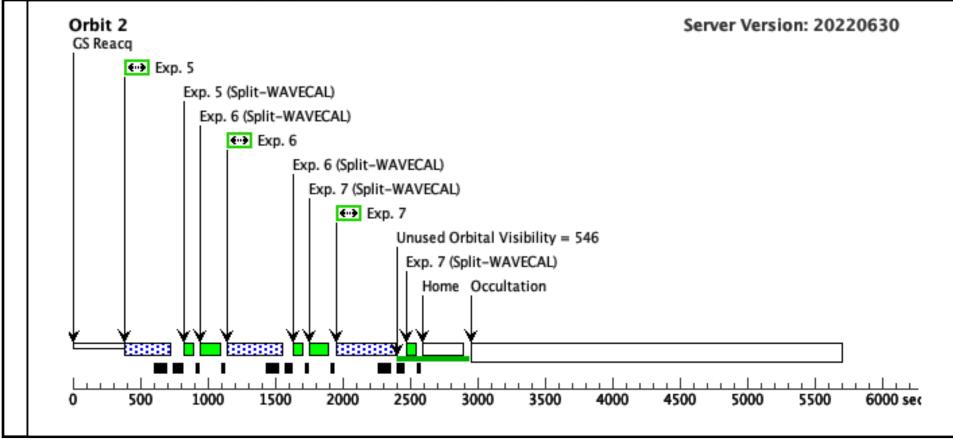


1	Proposal 17249, WD0308-APR	(5B), failed			Wed May 24 16:01:00 GMT 2023						
	Diagnostic Status: Warning				-						
	Scientific Instruments: COS/FU	V, COS/NUV									
/isi	Special Requirements: SCHED	Special Requirements: SCHED 100%; BETWEEN 10-APR-2023:00:00 AND 24-APR-2023:00:00									
[Comments: All G160M observations are with SEGMENT = BOTH. Using "SEGMENT=BOTH" instead of "SEGMENT=B" for both LP4 and LP6 observations for the G160M settings to support a Cycle 30 GO or ogram which needs both segments monitored at LP4 and LP6. (FUVA is also observed for G160M using GD71 in visit 06).									
	533 & 1577 LP4										
Diagnostics	(WD0308-APR (5B)) Warning (that may apply to observations w		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	# Name (1) WD0308-565	Target Coordinates RA: 03 09 47.9200 (47.4496667d)	Targ. Coord. Corrections Proper Motion RA: 149.241 mas/yr	Fluxes V=14.07+/-0.02	Miscellaneous Reference Frame: ICRS						
rgets											
Targets		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 Cyc	nments: cycle 2 le 28 comment	24 comment: exposure : we continue to use th	e times not reduced following updated he same exposure time since differenc	ETC calculations, es do not affect orb	differences not enough to it request.	o affect orbit request	ed.		
2	G160M/153	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			223 Secs (223 Secs)	
	3/BOTH/LP 4 (COS.sp.145			1533 A	BUFFER-TIME=11 3;	l		[==>]	
	(CO3.sp.145 7649)				LIFETIME-POS=L P4; SEGMENT=BOTH				[1]
		uffer time is 502 sec. xptime - 110 sec.							1
3	G160M/157	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			291 Secs (291 Secs)	
	7/BOTH/LP 4			1577 A	BUFFER-TIME=18	3		[==>]	
	4 (COS.sp.154 0036)				1; LIFETIME-POS=L				[1]
	,				P4;				
					SEGMENT=BOTH	Ι			
Con Set i	nments: 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/BOTH/LP 6			1533 A	BUFFER-TIME=11	l		[==>]	
	(COS.sp.145				3;				
	7649)				LIFETIME-POS=L P6;				[1]
					SEGMENT=BOTH				
		uffer time is 502 sec. xptime - 110 sec.							
5	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 1;	3		[==>]	
	(COS.sp.154 0036)				LIFETIME-POS=L				[2]
					P6;				
					SEGMENT=BOTH	l			
		uffer time is 644 sec. xptime - 110 sec							
6	G160M/161	(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	5		[==>]	
	(COS.sp.154				0;				
	0046)				LIFETIME-POS=L P6;				[2]
					SEGMENT=BOTH				
Con	nments: ETC b	uffer time is 755 sec.							
Set i	buffer time = e	xptime - 110 sec							

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

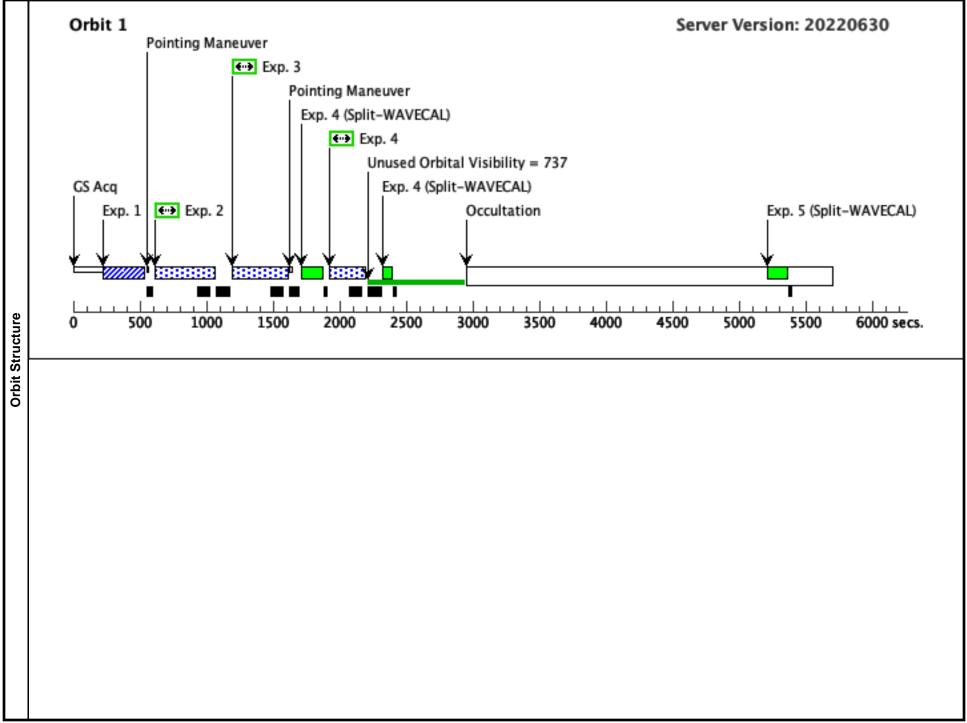


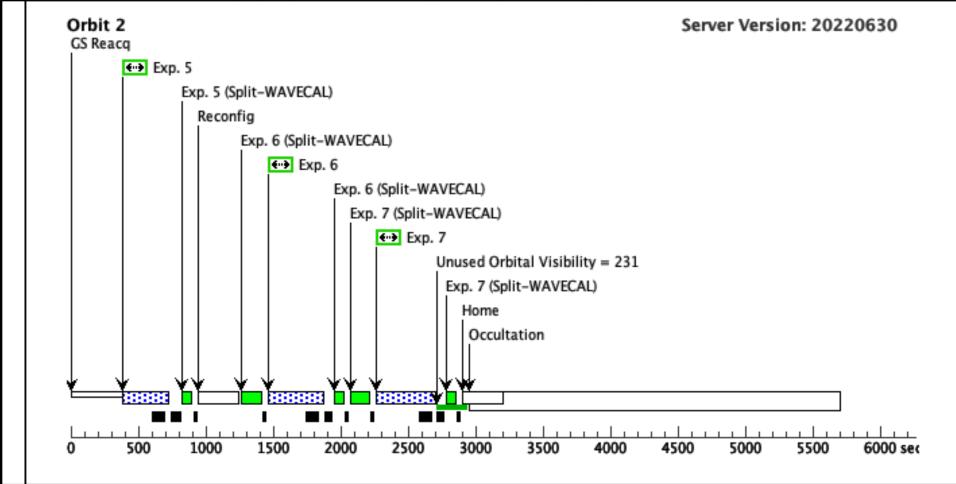


	Proposal 17249, WD0308-APR				Wed May 24 16:01:00 GMT 2023		
	Diagnostic Status: Warning						
	Scientific Instruments: COS/FUV	V, COS/NUV					
	Special Requirements: SCHED 1	00%					
Vis	Comments: This is a reobservation	on of the failed visit 5B.					
			ENT=BOTH" instead of "SEGMENT=B" for both oserved for G160M using GD71 in visit 06). FUVE		the G160M settings to support a Cycle 30 GO FUVA covered with high S/N for WD0803-565 in visit		
Diagnostics	(WD0308-APR (5D)) Warning (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		
arge		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr				
a I		Equinox: J2000	Epoch of Position: 2000				
Fixed	Equilibrit 52000 Exponent 52000 Exponent 52000 Exponent 52000 Exponent 52000 Exponent 52000 Exponent 52000 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]
Con Cyc	nments: cycle 2 le 28 comment	24 comment: exposure : we continue to use t	e times not reduced following updated the same exposure time since difference	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/FUVB/LP 4			1533 A	BUFFER-TIME=1	1		[==>]	
	(COS.sp.145 7649)				LIFETIME-POS=L P4;				[1]
					SEGMENT=B				
Con 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/FUVB/LP 4			1577 A	BUFFER-TIME=18	3		[==>]	
	4 (COS.sp.154 0036)				1; LIFETIME-POS=L				[1]
	0000)				P4;				[-]
					SEGMENT=B				
		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/FUVB/LP 6			1533 A	BUFFER-TIME=1	1		[==>]	
	(COS.sp.145				3;				
	7649)				LIFETIME-POS=L P6;	,			[1]
					SEGMENT=B				
		uffer time is 502 sec. xptime - 110 sec.							
5	G160M/157	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			291 Secs (291 Secs)	
	7/FUVB/LP 6			1577 A	BUFFER-TIME=18	3		[==>]	
	(COS.sp.154				1;				[2]
	0036)				LIFETIME-POS=L P6;				[2]
					SEGMENT=B				
		uffer time is 644 sec. xptime - 110 sec							
6	G160M/161	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			360 Secs (360 Secs)	
	1/BOTH/LP 6			1611 A	BUFFER-TIME=2	5		[==>]	
	(COS.sp.154				0;				
	0046)				LIFETIME-POS=L P6;				[2]
					SEGMENT=BOTH	I			
Con	nments: ETC b	uffer time is 755 sec.						<u>.</u>	
Set	buffer time = e	xptime - 110 sec							

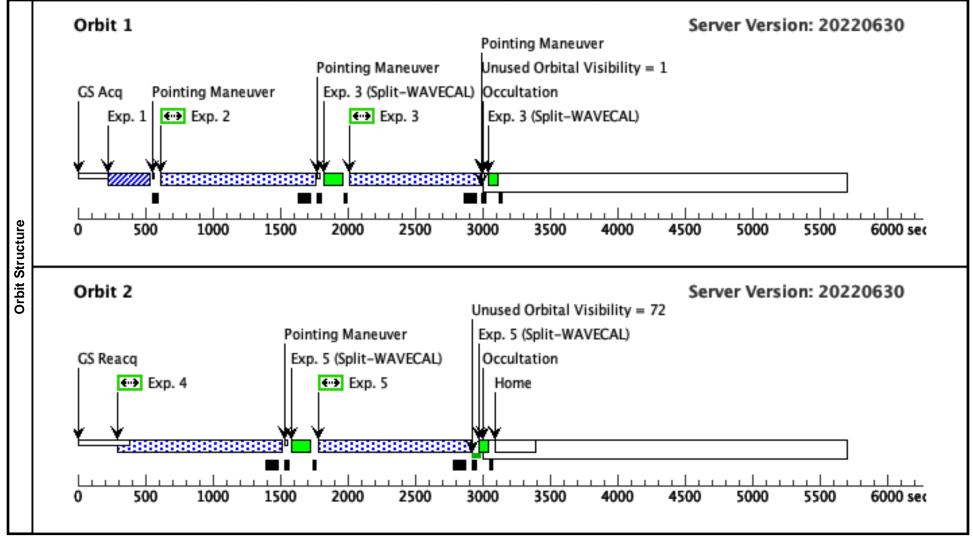
7	G160M/162 (1) WD0308-565 3/BOTH/LP 6 (COS.sp.154 0050)	G160M FP-POS=3; 1623 A BUFFER-TIME=27 8; LIFETIME-POS=L P6;	FP-POS=3;	388 Secs (388 Secs)	
				[==>]	
				[2]	
			SEGMENT=BOTH		
(comments: ETC buffer time is 814 sec. et buffer time = exptime - 110 sec				





	Proposal 17249, WD0308-APR	(56), scheduled			Wed May 24 16:01:00 GMT 2023					
	Diagnostic Status: Warning									
sit	Scientific Instruments: COS/FUV	/, COS/NUV								
ŝ	Special Requirements: SCHED 9	0%								
		Comments: This is a resobservation of the failed visit 06. GD71 is no longer visible so target switched to WD0803-565. G160M/1611 and 1623 FUVA monitoring is covered in visit 5B. G130M/1096 is not observable vithin a reasonable exposure time. G160M/1533 and 1577 are observed for the LP4-LP6 connection visit to achieve S/N=15 at the wavelength of least sensitivity on FUVA. FUVB is switched off to save the detector								
stics	(WD0308-APR (56)) Warning (If that may apply to observations w		uired to use all four FP-POS positions when obser	rving at a given COS cenwave.	See the COS Instrument Handbook for exceptions					
Diagnos										
iagno	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
Diagno	# 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 Diagno		8	8							
Diagno		RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 149.241 mas/yr							

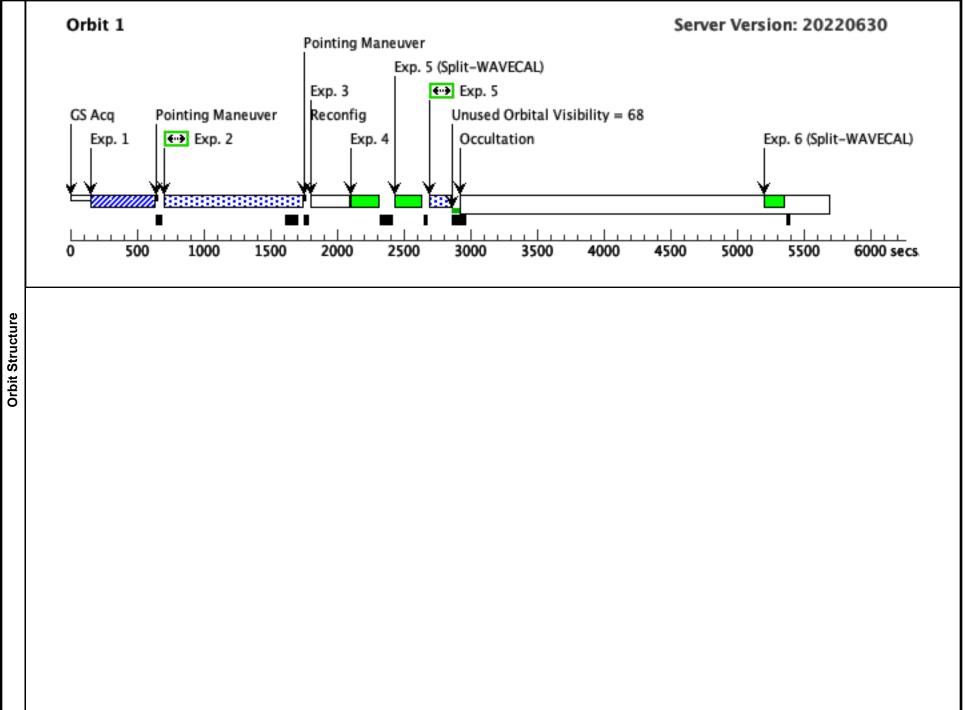
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orb
1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				$\frac{45 \text{ Secs } (45 \text{ Secs})}{I = =>I}$	
Con Cyc	mments: cycle 2 cle 28 comment:	4 comment: exposure we continue to use t	e times not reduced following updated he same exposure time since difference	ETC calculations, a es do not affect orb	differences not enough to it request.	affect orbit requeste	ed.	[==>]	[1]
2		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			920 Secs (920 Secs)	
	3/FUVA/LP 4 (COS.sp.184			1533 A	BUFFER-TIME=81 0;			[==>]	
	4330)				LIFETIME-POS=L P4;				[1
					SEGMENT=A				
		uffer time is 519 sec. xptime - 110 sec.							
3		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			920 Secs (920 Secs)	
	3/FUVA/LP 6			1533 A	BUFFER-TIME=81			[==>]	
	(COS.sp.184 4330)				0; LIFETIME-POS=L P6:				[.
					PO; SEGMENT=A				
Con Set	mments: ETC bi buffer time = e:	uffer time is 519 sec. xptime - 110 sec.			SLOWENT-A				
4		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			1082 Secs (1082 Secs)	
	7/FUVA/LP 4 (COS.sp.184			1577 A	BUFFER-TIME=97 2;			[==>]	
	(CO3.sp.184 4331)				LIFETIME-POS=L P4;				[2
					SEGMENT=A				
		uffer time is 657 sec. xptime - 110 sec							
5		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			1082 Secs (1082 Secs)	
	7/FUVA/LP 6 (COS.sp.184			1577 A	BUFFER-TIME=97 2;			[==>]	
	4331)				LIFETIME-POS=L P6;				[2
					SEGMENT=A				
Cor	mments: ETC bi	uffer time is 657 sec. xptime - 110 sec							

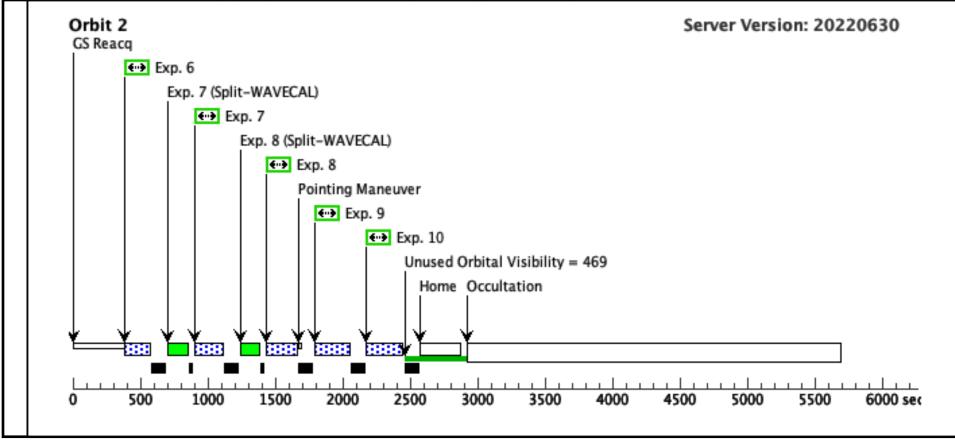


	Proposal 17249, GD71-APR	. (06), failed			Wed May 24 16:01:00 GMT 20			
	Diagnostic Status: Warning							
	Scientific Instruments: S/C, C	OS/FUV, COS/NUV						
isit	Special Requirements: SCHE	D 100%; BETWEEN 10-APR-2023:00:00:00 AND 2	24-APR-2023:00:00:00					
Ĭ	George Chapman added Expo	vavecal to calculate the OSM shifts of the G130M/109 osure 3 with SEGMENT = A (i.e. segment B is turned off).	96/FUVB observation					
	1533 & 1577 LP4							
Diagnostics	(GD71-APR (06)) Warning (1 may apply to observations wi	Form): For the best data quality, it is generally require th G130M/1291 or G160M.	ed to use all four FP-POS positions when observin	ng at a given COS cenwave. See	e the COS Instrument Handbook for exceptions that			
	# 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			
ခြီ		Dec: +15 53 13.23 (15.88701d)	Proper Motion Dec: -172.944 mas/yr					
a T	Equinox: J2000 Epoch of Position: 2000							
ixed	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							

Label Target Config,Mode,Aperture Spectral Els. **Opt. Params.** Special Reqs. Groups Exp. Time (Total)/[Actual Dur.] Orbit (ETC Run) ACQ/IM (2) GD71 COS/NUV, ACQ/IMAGE, BOA MIRRORB 90 Secs (90 Secs) (COS.ta.839 [==>] [1] 574) Comments: See Visit 02 comments. G130M/109 (2) GD71 829 Secs (829 Secs) COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=71 6/FUVB/LP 9; 1096 A [==>] 2 FP-POS=3; (COS.sp.182 <u>0351</u>) SEGMENT=B: [1] LIFETIME-POS=L P2 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* 3 DARK S/C, DATA, NONE 1 Secs (1 Secs) OASISTATES COS FUV HVLOW HVL [==>][1] OW Comments: Work-around to efficiently schedule the SEG-B to SEG-A reconfiguration. Eliminates SPSS induced gaps. G130M/109 WAVE COS/FUV, TIME-TAG, WCA G130M FP-POS=3; 160 Secs (160 Secs) 6/FUVA W 1096 A SEGMENT=A; [==>] AVECAL/L FLASH=NO; P2 [1] Exposures LIFETIME-POS=L P2 Comments: See Visit 02 comments. G160M/153 (2) GD71 COS/FUV, TIME-TAG, PSA G160M BUFFER-TIME=10 106 Secs (106 Secs) 3/FUVA/LP 6; 1533 A l = = > l6 FP-POS=3; (COS.sp.145 7660) SEGMENT=A: [1] LIFETIME-POS=L P6 Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 9240 cts/sec, so the buffer time is 2.35E6/9240 = 254 sec. *Set buffer-time = exptime* 6 G160M/157 (2) GD71 COS/FUV, TIME-TAG, PSA G160M BUFFER-TIME=13 135 Secs (135 Secs) 7/FUVA/LP 5; 1577 A [==>] 6 FP-POS=3; (COS.sp.145 7661) SEGMENT=A; [2] LIFETIME-POS=L P6 Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 6674 cts/sec. so the buffer time is 2.35E6/6674 = 352 sec. *Set buffer-time = exptime*

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/so Set buffer-time = exptime	arnings come from FUVB). ec, 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 w The FUVA count rate is 5095 cts/so Set buffer-time = exptime	carnings come from FUVB). ec, 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/so Set buffer-time = exptime	varnings come from FUVB). ec, 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/so Set buffer-time = exptime	arnings come from FUVB). ec, so the buffer time is 2.35E6/6674 = 35	2 sec.			

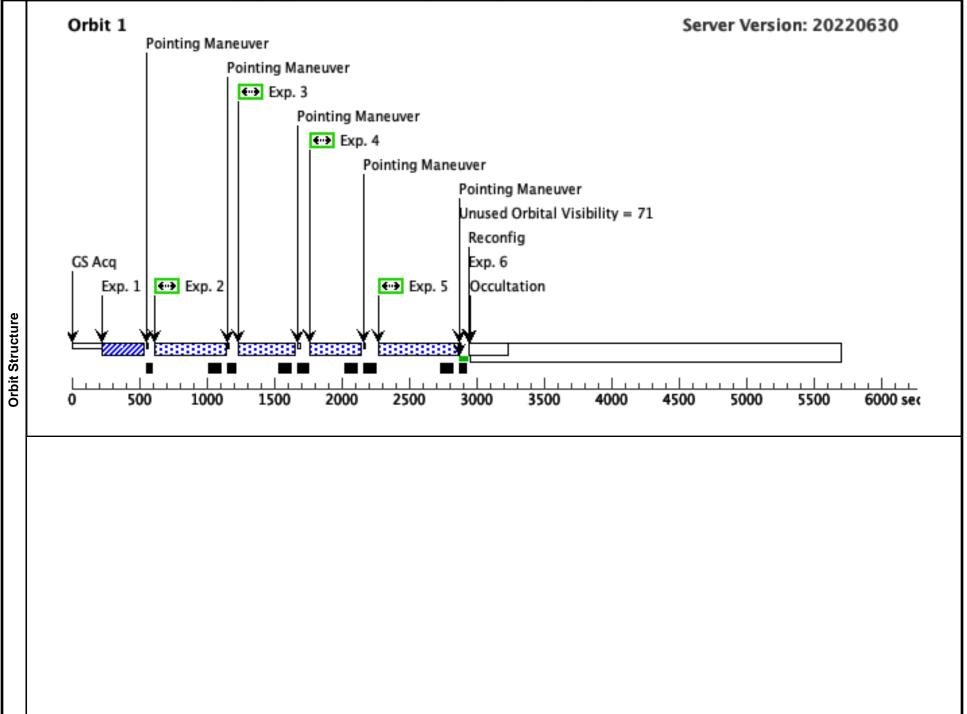


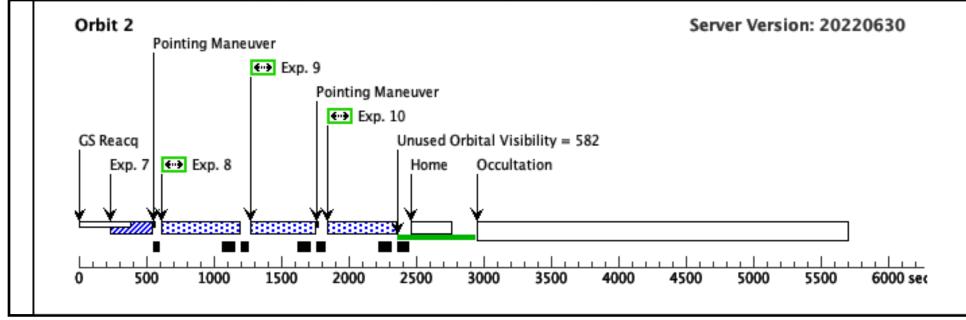


	Proposal 17249, WD0308-JUN				Wed May 24 16:01:00 GMT 2023					
	Diagnostic Status: Warning									
isit	Scientific Instruments: S/C, COS	/FUV, COS/NUV								
>	Special Requirements: SCHED 1	00%; BETWEEN 04-JUN-2023:00:00 AND 3	30-JUN-2023:00:00:00							
		ions are with SEGMENT = B (i.e. segment A is tu e 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-JUN (7A)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.									
	# 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					
۳ ق		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr							
Tai		Equinox: J2000								
Fixed.	Equinox: J2000 Epoch of Position: 2000 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
Ī	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
	Con		A commant exposur	e times not reduced following updated E	ETC calculations	differences not anough to	affect orbit requested		[==>]	[1]
ļ	Com Cycl	ele 28 comment:	: we continue to use the	the same exposure time since difference.	es do not affect orbi	nit request.	affect orbit requesiea.			
	2	G130M/105 5/LP2	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=20 8;			318 Secs (318 Secs)	- <u> </u>
	i	(COS.sp.154 0024)			1055 A	FP-POS=3;			[==>]	
	i	0024)				SEGMENT=BOTH;	,			[1]
	1					LIFETIME-POS=L P2				
	Con	nments: Cycle 2	29 comment: exposur	re time updated following blue modes Th	'DS and FLUXTAB					4
	ETC Set l	C buffer time is buffer time = ex	1377 sec exptime - 110 sec							
	3	G130M/122 2/LP4	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=15 7;			267 Secs (267 Secs)	
	1	(COS.sp.145			1222 A	FP-POS=3;			[==>]	
	1	7646)				LIFETIME-POS=L				[1]
	1					P4; SEGMENT=BOTH				
			uffer time is 392 sec.							
es	Set \underline{k}		(1) WD0208 565	COSTENT THE TAC DEA	G130M	DIFEED TIME_12			226 Bass (226 Bass)	1
Exposures	4	1/LP5	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=12 6;			236 Secs (236 Secs) [==>]	+
öd	1	(COS.sp.145 7647)			12/111	FP-POS=3;				
ы	1					LIFETIME-POS=L P5;				[1]
	1					SEGMENT=BOTH				
		<i>buffer time = ex</i>	uffer time is 323 sec. exptime - 110 sec							
	5	G140L/1280 /LP3	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=26 1;			371 Secs (371 Secs)	
	i	(COS.sp.182 0354)			1280 A	FP-POS=3;			[==>]	
	i	0554)				LIFETIME-POS=L				[1]
	1					P3; SEGMENT=BOTH				
	Con	nments: Cycle.	30 comment: exposur	re time updated following FLUXTAB up	ədate.	DEGINE (1-D C III				
		C buffer time is buffer time = ex	520 sec. exptime - 110 sec							
	6		DARK	S/C, DATA, NONE			QASISTATES COS		1 Secs (1 Secs)	
	1						FUV HVLOW HVL OW		[==>]	[1]
ļ	Com			schedule the reconfiguration to SEG-A.		induced gaps.				
	7	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
	Con		A commont exposur	e times not reduced following updated E	ETC calculations	differences not enough to	affect orbit requested		[==>]	[2]
				the same exposure time since difference.			ајјест огон гедиемен.			

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	367 Secs (367 Secs) [==>]	[2]
Comments: ETC bu Set buffer time = ex	uffer time is 350 sec. xptime - 110 sec			P3		
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]
Set buffer time $= ex$						
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]
Comments: ETC bi set buffer time = ex	uffer time is 324 sec. xptime - 110 sec					·

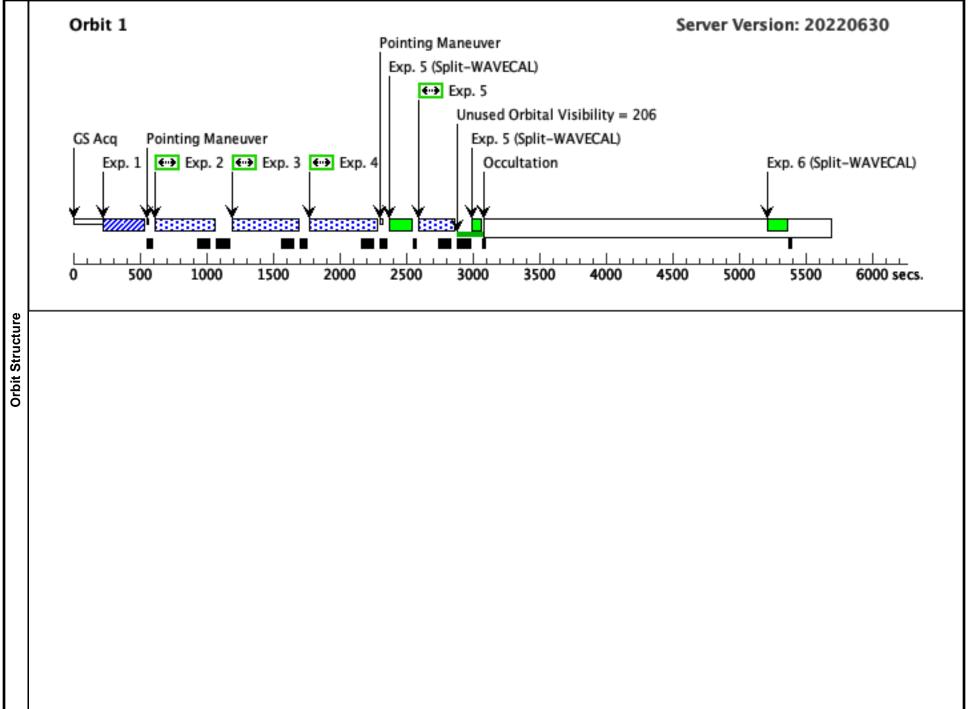


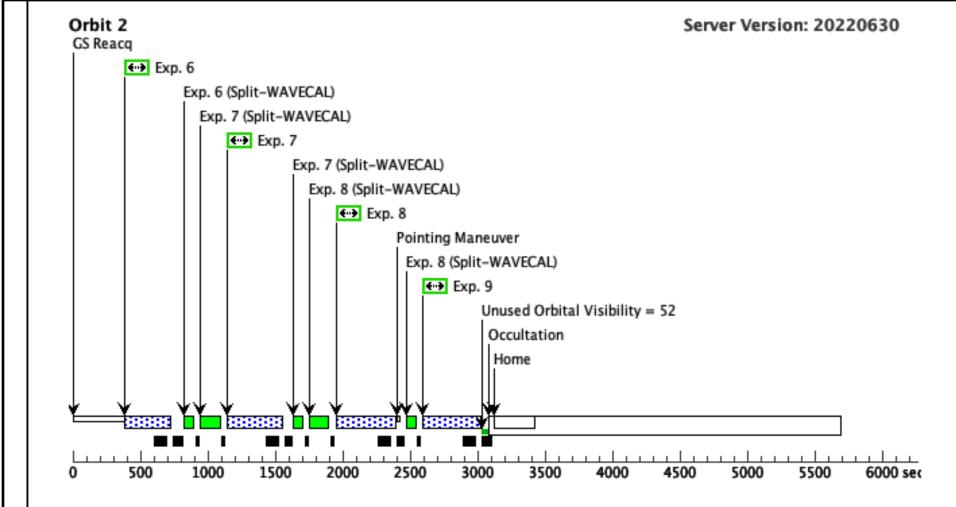


	Proposal 17249, WD0308-JUN	(7B), scheduling	· · · · ·		Wed May 24 16:01:00 GMT 2023					
	Diagnostic Status: Warning									
. <u></u>	Scientific Instruments: COS/FUV, COS/NUV									
Vis	Special Requirements: SCHED 80%; BETWEEN 04-JUN-2023:00:00:00 AND 30-JUN-2023:00:00:00									
		Comments: (All G160M observations are with SEGMENT = B (i.e. segment A is turned off) for all other WD0308-565 visits. Iowever, for the June visit, since GD71 is not available, we use SEGMENT = BOTH to keep track of the segment A response.)								
	1533 & 1577 & 1611 & 1623	533 & 1577 & 1611 & 1623								
Diagnostics										
S	# Name	Target Coordinates P.A. 02 00 47 0200 (47 44066674)	Targ. Coord. Corrections	Fluxes V=14.07+/-0.02	Miscellaneous					
jets	(1) WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 149.241 mas/yr	v=14.0/+/-0.02	Reference Frame: ICRS					
arg		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr							
		Equinox: J2000	Epoch of Position: 2000							
Fixed	Comments: Coordinates carried Proper motions changed to mas/ 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 (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
								[==>]	[1]
Сог Сус	mments: cycle 2 cle 28 comment	24 comment: exposure : we continue to use t	e times not reduced following updated he same exposure time since differenc	ETC calculations, or ses do not affect orb	differences not enough to it request.	o affect orbit request	ed.		
2	G160M/153	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			223 Secs (223 Secs)	
	3/BOTH/LP 4 (COS.sp.145			1533 A	BUFFER-TIME=11 3;	l		[==>]	
	(CO3.sp.145 7649)				LIFETIME-POS=L P4;	,			[1]
					SEGMENT=BOTH	[
Cor Set	mments: ETC b buffer time = e	uffer time is 502 sec. xptime - 110 sec.							
3	G160M/161	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			360 Secs (360 Secs)	
	1/BOTH/LP			1611 A	BUFFER-TIME=25	5		[==>]	
	(COS.sp.154 0046)				0; LIFETIME-POS=L				[1]
					P4;				
					SEGMENT=BOTH	I			
Cor Set	mments: ETC b buffer time = e	uffer time is 755 sec. xptime - 110 sec							
4		(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	7		[==>]	
	(COS.sp.154				8;				
	0050)				LIFETIME-POS=L P4;				[1]
					SEGMENT=BOTH	[
Cor Set	mments: ETC b buffer time = e	uffer time is 814 sec. xptime - 110 sec							
5	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 3;	l		[==>]	
	(COS.sp.145 7649)				LIFETIME-POS=L				[1]
	, (, , , , , , , , , , , , , , , , , ,				P6;				1-1
					SEGMENT=BOTH	[
Cor Set	mments: ETC b buffer time = e	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;				[2]
	0036)				LIFETIME-POS=L P6;				[2]
					SEGMENT=BOTH	I			
Cor	mments: ETC b	uffer time is 644 sec.							
Set	buffer time = e	exptime - 110 sec							
1									
1									
1									

7 G160M/161 (1) WD0308-56	5 COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	360 Secs (360 Secs)	
1/BOTH/LP 6 (COS.sp.154 0046)		1611 A	BUFFER-TIME=25 0; LIFETIME-POS=L	[==>]	[2]
0040)			Рб;		[2]
			SEGMENT=BOTH		
Comments: ETC buffer time is 755 s Set buffer time = exptime - 110 sec	ec.				
8 G160M/162 (1) WD0308-56	5 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 s Set buffer time = exptime - 110 sec	ec.				
9 G160M/157 (1) WD0308-56	5 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 s Set buffer time = exptime - 110 sec	ec.				

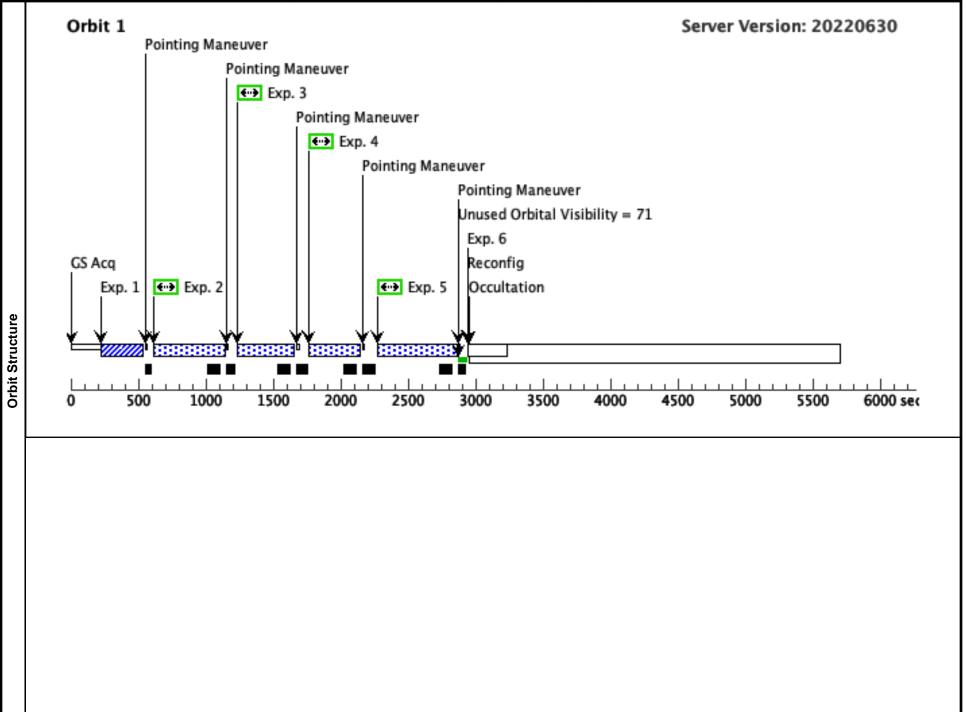


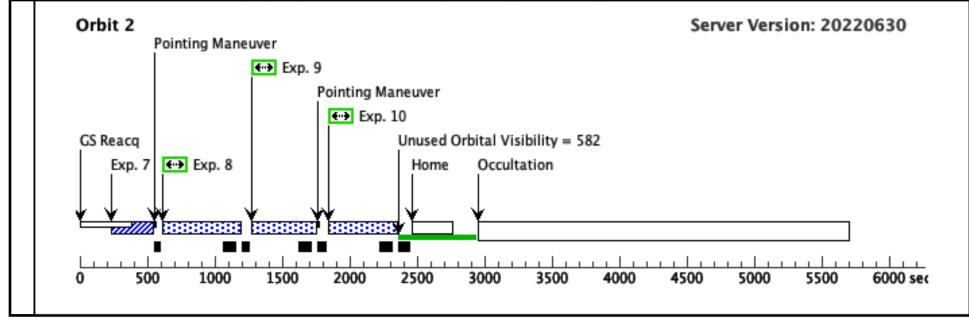


	Proposal 17249, WD0308-AUG				Wed May 24 16:01:00 GMT 2023					
<u>.</u>	Diagnostic Status: Warning									
/isi	Scientific Instruments: S/C, COS/FUV, COS/NUV									
1	Special Requirements: SCHED 1	Special Requirements: SCHED 100%; BETWEEN 07-AUG-2023:00:00:00 AND 21-AUG-2023:00:00:00								
	Comments: All G160M observati	Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).								
Diagnostics	(WD0308-AUG (8A)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.									
	# 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 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 yr, from SIMBAD, also using the GAIA DR2 cata								

(839564) [==: Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested. (Eastern Continue to use the same exposure time since differences do not affect orbit request. 2 G130M/105 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=20 318 5/LP2 1055 A 8; [==: [=: [=: [=: (COS,sp.154 1055 A 8; [=: [=: [=: 0024) SEGMENT=BOTH; LIFETIME-POS=L [=: [=: <i>Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update.</i> ETC buffer time is 1377 sec [=: [=: 3 G130M/122 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=15 [=: 2/LP4 1222 A 7; [=: [=: [=: [=: [=: 3 G130M/122 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=15 [=: [=: 2/LP4 FP-POS=3; LIFETIME-POS=L [=: [=: [=: [=: 3 G130M/122 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M<	8 Secs (318 Secs) =>] [1] 7 Secs (267 Secs)	[==>]
Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested. 2 G130M/105 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=20 318 5/LP2 (COS.sp.154 1055 A 8; [==: (COS) FP-POS=3; SEGMENT=BOTH; IIFETIME-POS=L [==: 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 3 G130M BUFFER-TIME=15 [=: 3 G130M/122 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=15 [=: 2/LP4 (COS s.p.145 7646) IIFETIME-POS=L [=: [=: [=: 260 FP-POS=3; IIFETIME-POS=L [=: [=: [=: [=: 3 G130M/122 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=15 [=: [=: 2/LP4 (COS s.p.145 FP-POS=3; IIFETIME-POS=L [=: [=: [=: 4(GO S.p.145 FP-FOS=1 Edit [=: [=: [=:	8 Secs (318 Secs) =>] [1] 7 Secs (267 Secs)	318 Secs (3
Cycle 28 comment: we continue to use the same exposure time since differences do not affect orbit request. 318 2 G130M/105 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=20 \$\frac{5/LP2}{(COS,sp.154} \$\frac{1055 A}{8}; \$\frac{1055 A}{1055 A}\$ \$\frac{8}{8}; \$\frac{1}{1055 A}\$ \$\frac{1}{1055 A}\$ \$\frac{1055 A}{8}; \$\frac{1}{1055 A}\$ \$\frac{1}{105	=>] [1] 7 Secs (267 Secs)	`
5/LP2 (COS.sp.154 0024) 1055 A 8; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2 [=: 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 [=: 3 G130M/122 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=15 267 (COS.sp.145 7646) [=: 3 G130M/122 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=15 1222 A [=: 2/LP4 (COS.sp.145 7646) COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=15 PP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH [=: Comments: ETC buffer time is 392 sec. SEGMENT=BOTH [=:	=>] [1] 7 Secs (267 Secs)	`
IOSS A FP-POS=3; ISS A IFP-POS=3; O024) SEGMENT=BOTH; IIFETIME-POS=L P2 Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update. IFETC buffer time is 1377 sec IFETC buffer time = exptime - 110 sec 3 G130M/122 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=15 267 2/LP4 (COS.sp.145 1222 A 7; [=: 7646) IFP-POS=L P4; IFETIME-POS=L VALUE SEGMENT=BOTH IFETIME-IS 392 sec. SEGMENT=BOTH	[1] 7 Secs (267 Secs)	[==>]
0024) SEGMENT=BOTH; LIFETIME-POS=L P2 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 3 G130M/122 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M (COS.sp.145 7646) BUFFER-TIME=15 7; EDUFFER-TIME=15 7; Comments: ETC buffer time is 392 sec. Comments: ETC buffer time is 392 sec. SEGMENT=BOTH	7 Secs (267 Secs)	
LIFETIME-POS=L P2 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 3 G130M/122 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=15 2/LP4 (COS.sp.145 7; (COS.sp.145 FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH Comments: ETC buffer time is 392 sec. Set buffer time a - arguing - 110 sec	7 Secs (267 Secs)	
P2 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 3 G130M/122 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=15 2/LP4 (COS.sp.145 7; (COS.sp.145 7; (COS.sp.145 7; 7646) FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH Comments: ETC buffer time is 392 sec. Set buffer time = exptime - 110 sec	· · · · · · · · · · · · · · · · · · ·	
ETC buffer time is 1377 sec Set buffer time = exptime - 110 sec 3 G130M/122 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=15 7; 2/LP4 1222 A (COS.sp.145 FP-POS=3; 7646) LIFETIME-POS=L P4; SEGMENT=BOTH	· · · · · · · · · · · · · · · · · · ·	
Set buffer time = exptime - 110 sec 3 G130M/122 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=15 267 2/LP4 (COS.sp.145 7; 1222 A 7; [== (COS.sp.145 FP-POS=3; LIFETIME-POS=L P4; [== Comments: ETC buffer time is 392 sec. SEGMENT=BOTH SEGMENT=BOTH []	· · · · · · · · · · · · · · · · · · ·	
2/LP4 (COS.sp.145 7646) 1222 A 7; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH Comments: ETC buffer time is 392 sec. Set buffer time = avritime_110 sec	· · · · · · · · · · · · · · · · · · ·	
(COS.sp.145 7646)	->1	267 Secs (2
7646) THE OSES, LIFETIME-POSEL P4; SEGMENT=BOTH	-~1	[==>]
P4; SEGMENT=BOTH	[1]	
Comments: ETC buffer time is 392 sec.	[1]	
Set huffer time $-$ arbtime 110 sec		
2 4 G130M/129 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=12 236		
	6 Secs (236 Secs)	236 Secs (2
1/LP5 1291 A 6; (COS.sp.145 FP-POS=3; []==	=>]	[==>]
7647) 7647) LIFETIME-POS=L	[1]	
ш Р5;	L-J	
SEGMENT=BOTH		
Comments: ETC buffer time is 323 sec. Set buffer time = exptime - 110 sec		
/I D3	1 Secs (371 Secs)	
(COS.sp.182 1280 A FP_POS-3)	=>]	[==>]
0354) LIFETIME-POS=L	[1]	
РЗ;		
SEGMENT=BOTH		
Comments: Cycle 30 comment: exposure time updated following FLUXTAB update.		
ETC buffer time is 520 sec. Set buffer time = exptime - 110 sec		
6 DARK S/C, DATA, NONE QASISTATES COS 1 S FUV HVLOW HVL	Secs (1 Secs)	1 Secs (1 Secs
OW IVLOW IVL	=>] [1]	[==>]
Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.		
7 ACQ/IM (1) WD0308-565 COS/NUV, ACQ/IMAGE, BOA MIRRORA 45. (839564)	Secs (45 Secs)	45 Secs (45
		[==>]
<i>Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i> <i>Cycle 28 comment: we continue to use the same exposure time since differences do not affect orbit request.</i>		[>]
		[[>]

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

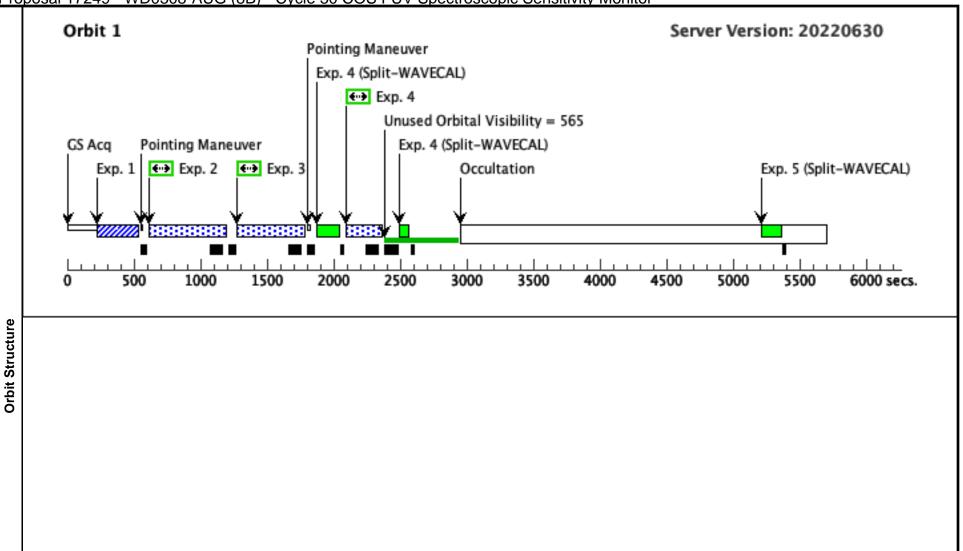


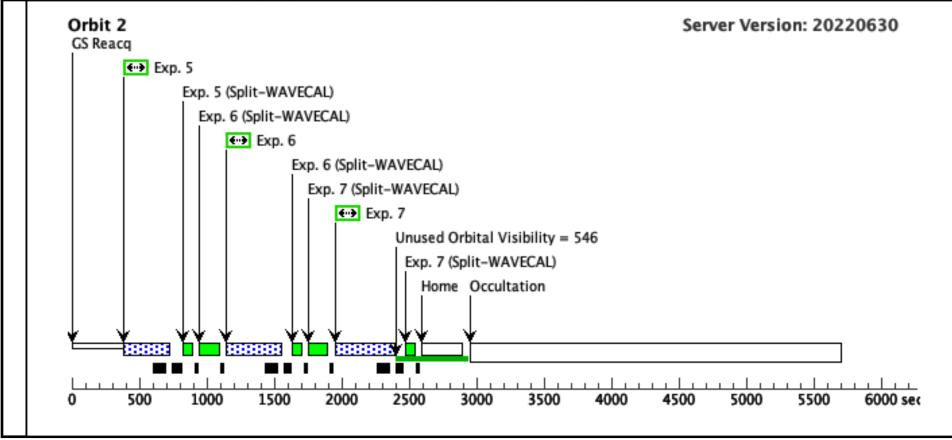


	Proposal 17249, WD0308-AUG	(8B), implementation			Wed May 24 16:01:00 GMT 2023					
	Diagnostic Status: Warning									
sit	Scientific Instruments: COS/FUV	Scientific Instruments: COS/FUV, COS/NUV								
Īŝ	Special Requirements: SCHED 1	00%; BETWEEN 07-AUG-2023:00:00:00 AND	21-AUG-2023:00:00:00							
	Comments: All G160M observati	Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).								
	1611 & 1623 LP4	611 & 1623 I P/								
Diagnostics	that may apply to observations w		quired to use an four FF-POS positions when obse	erving 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					
lge		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr							
Ta I		Equinox: J2000	Epoch of Position: 2000							
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]
Cor Cyc	nments: cycle 2 cle 28 comment	24 comment: exposure : 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;			360 Secs (360 Secs)	
	1/B/LP4 (COS.sp.154 0046)			1611 A	BUFFER-TIME=2: 0;	5		[==>]	
	0010)				LIFETIME-POS=L P4;				[1]
					SEGMENT=B				
Cor Set	nments: 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/B/LP4 (COS.sp.154 0050)			1623 A	BUFFER-TIME=2' 8;	7		[==>]	
	0050)				LIFETIME-POS=L P4;				[1]
					SEGMENT=B				
		uffer time is 814 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=1 3;	1		[==>]	
	7049)				LIFETIME-POS=L P6;	,			[1]
					SEGMENT=B				
		uffer time is 502 sec. xptime - 110 sec.							
5	G160M/157	(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]
					Рб;				
C		· · · · · · · · · · · · · · · · · · ·			SEGMENT=B				
Cor Set	nments: 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/B/LP6 (COS.sp.154			1611 A	BUFFER-TIME=2:	5		[==>]	
	0046)				0; LIFETIME-POS=L				[2]
					P6;				[2]
					SEGMENT=B				
Cor Set	nments: ETC b buffer time = e	uffer time is 755 sec. xptime - 110 sec							

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]
	omments: ETC buffer time is 814 sec. et buffer time = exptime - 110 sec					

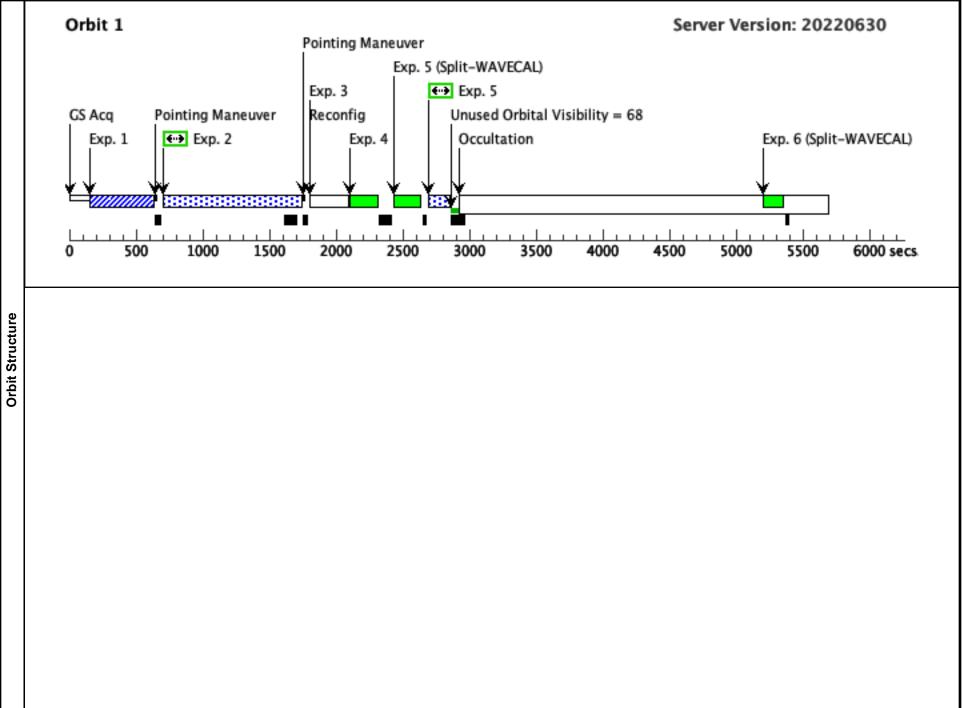




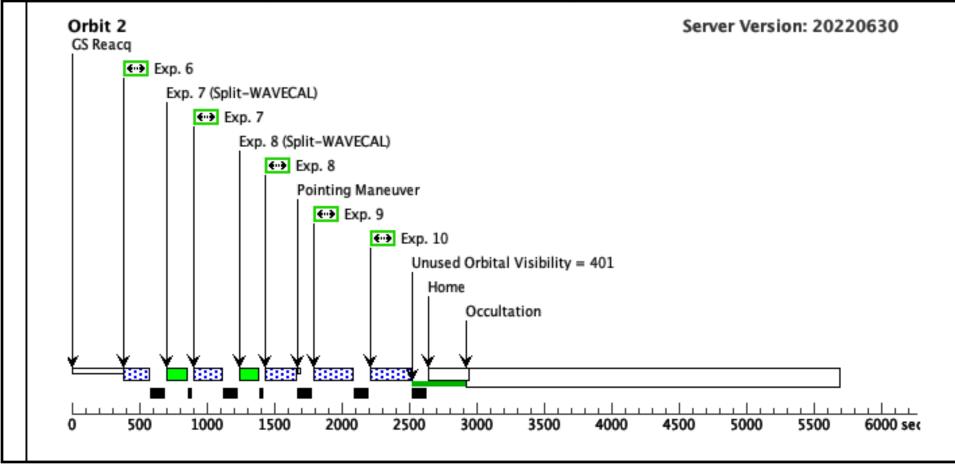
	Proposal 17249, GD71-AUG	(09), implementation			Wed May 24 16:01:00 GMT 2023					
	Diagnostic Status: Warning									
	Scientific Instruments: S/C, C	OS/FUV, COS/NUV								
isit	Special Requirements: SCHED 100%; BETWEEN 16-AUG-2023:00:00:00 AND 29-AUG-2023:00:00:00									
		vavecal to calculate the OSM shifts of the G130M/109	96/FUVB observation							
	All G160M observations are v	eorge Chapman added Exposure 3 Il G160M observations are with SEGMENT = A (i.e. segment B is turned off).								
	1611 & 1623 LP4	611 & 1623 LP4								
Diagnostics										
	# 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					
Įğ		Dec: +15 53 13.23 (15.88701d)	Proper Motion Dec: -172.944 mas/yr							
a I		Equinox: J2000	Epoch of Position: 2000							
Fixed	C Comments: Co-ordinates and proper motions undated with values from SIMBAD, which uses the GAIA DR2 catalog									

#	Lal (E]	bel TC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	AC	CQ/IM	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs)	
	(CC 574	OŠ.ta.839 4)							[==>]	[1]
C	omment	nts: See Vis	tt 02 comments.							
2		30M/109	(2) GD71	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=71			829 Secs (829 Secs)	
	2	FUVB/LP			1096 A	9; ED DOS-2:			[==>]	
	(CC 035	OS.sp.182				FP-POS=3; SEGMENT=B;				[1]
	055	51)				LIFETIME-POS=L				[1]
						P2				
C	ommen	ts: Cycle 3	30 comment: exp	posure time updated following FLUXTAB u	pdate.					
1	he FUV	/B count re	C warnings com ate is 549 cts/sec xptime - 110 sec	c, so the buffer time is $2.35E6/566 = 4280$ s	sec.					
3			DARK	S/C, DATA, NONE			QASISTATES COS		1 Secs (1 Secs)	
							FUV HVLOW HVL OW		[==>]	[1]
C	ommen	ts: Work-a	round to efficie	ntly schedule the SEG-B to SEG-A reconfig	uration. Eliminate	es SPSS induced gaps.				_
4		30M/109	00	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;			160 Secs (160 Secs)	
		FUVA W /ECAL/L			1096 A	SEGMENT=A;			[==>]	
	P2					FLASH=NO;				[1]
S						LIFETIME-POS=L				[1]
Exposures		ta. Cas Via	it 02 comments.			P2				
		60M/153		COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=10			106 Secs (106 Secs)	T
֘׆ <u></u>	3/F	FUVA/LP	(2) 00/1		1533 A	6;			[==>]	1
	6 (CC	OS.sp.145				FP-POS=3;			£ - 5	
	766					SEGMENT=A;				[1]
						LIFETIME-POS=L P6				
C	ommen	ts: FUVA	only (all ETC w	arnings come from FUVB).		10				
		02 comme								
6		60M/157 FUVA/LP	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=13 5;			135 Secs (135 Secs)	
	6				1577 A	5, FP-POS=3;			[==>]	
	(CC 766	OS.sp.145				SEGMENT=A;				[2]
	700	01)				LIFETIME-POS=L				[-]
						P6				
		nts: FUVA 02 comme		arnings come from FUVB).						
7			(2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=15			159 Secs (159 Secs)	
	1/F 6	FUVA/LP			1611 A	9; ED DOS-2:			[==>]	
		OS.sp.154				FP-POS=3;				[2]
	005	58)				SEGMENT=A;				[2]
						LIFETIME-POS=L P6				
C	ommen	ts: FUVA	only (all ETC w	arnings come from FUVB).						
$T \\ S$	he FUV et buffer	/A count ro r-time = ex	ate is 5172 cts/se xptime	ec, so the buffer time is $2.35E6/5172 = 454$	sec.					

1/FUVA/LP 1611 A 9; [==>] 4 FP-POS=3; [==>] (COS.sp.154 SEGMENT=A; LIFETIME-POS=L	25 (177 Secs)	<u>177 Secs (177 Secs)</u> [==>]
1/FUVA/LP 1611 A 9; [==>] 4 FP-POS=3; [==>] (COS.sp.154 SEGMENT=A; LIFETIME-POS=L	or (150 Soco)	150 Saga (150 Saga)
P4	[2	159 Secs (159 Secs) [==>]
Comments: FUVA only (all ETC warnings come from FUVB). The FUVA count rate is 5172 cts/sec, so the buffer time is 2.35E6/5172 = 454 sec. Set buffer-time = exptime		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	(177 Secs)	177 Secs (177 Secs) [==>]



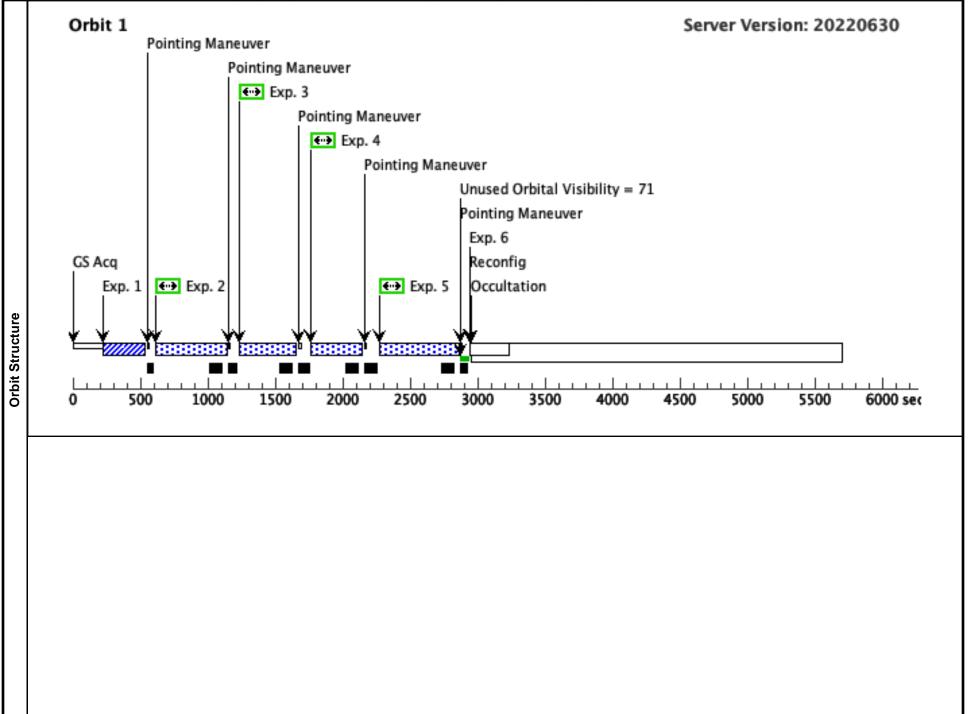
Proposal 17249 - GD71-AUG (09) - Cycle 30 COS FUV Spectroscopic Sensitivity Monitor

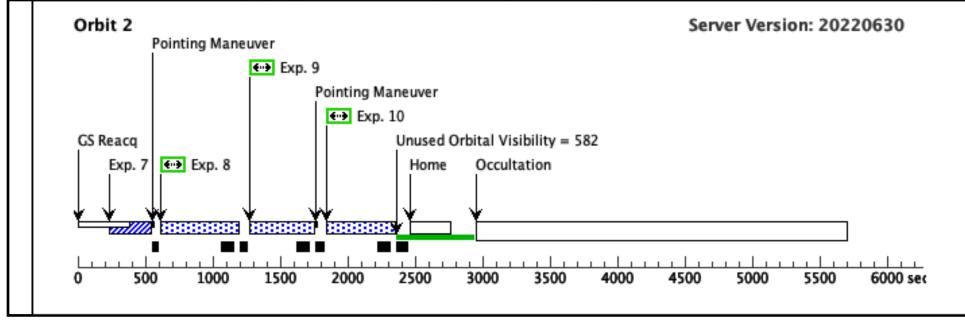


	Proposal 17249, WD0308-OCT				Wed May 24 16:01:00 GMT 2023
isit	Diagnostic Status: Warning				
Ĭ	Scientific Instruments: S/C, COS/	/FUV, COS/NUV			
	Special Requirements: SCHED 1	00%; BETWEEN 06-OCT-2023:00:00:00 AND	26-OCT-2023:00:00:00		
Diagnostics	(WD0308-OCT (10)) Warning (F that may apply to observations wi		uired to use all four FP-POS positions when obser	ving 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
١ ð		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr		
a 1		Equinox: J2000	Epoch of Position: 2000		
Fixed	Comments: Coordinates carried of Proper motions changed to mas/y Category=STAR Description=[DB] Extended=NO	over from Cycle 25 proposal, checked against SII r, from SIMBAD, also using the GAIA DR2 cata	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)	ļ
		(839564)							[==>]	[1]
				e times not reduced following updated I the same exposure time since difference			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; FP-POS=3;			[==>]	
		0024)				SEGMENT=BOTH;				[1]
	$(1) \qquad (1) \qquad (2) $					LIFETIME-POS=L				113
						P2				
	Com	iments: Cycle 2	29 comment: exposure	re time updated following blue modes T	DS and FLUXTAB	update.				
		C buffer time is buffer time = ex	1377 sec xptime - 110 sec					_		
ſ	3	G130M/122	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=15			267 Secs (267 Secs)	
		2/LP4 (COS.sp.145			1222 A	7; ED DOS-2:			[==>]	
		7646)				FP-POS=3; LIFETIME-POS=L				[1]
						P4;				[*]
						SEGMENT=BOTH				
	Com <u>Set l</u>	ıments: ETC bı bu <u>ffer time = e</u> .	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)	
SC		1/LP5 (COS.sp.145			1291 A	6; FP-POS=3;			[==>]	
ğ		7647)				LIFETIME-POS=L				[1]
ш						P5;				
						SEGMENT=BOTH				<u> </u>
			uffer time is 323 sec. xptime - 110 sec							
	5		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=26			371 Secs (371 Secs)	
		/LP3 (COS.sp.182			1280 A	1; FP-POS=3;			[==>]	
		0354)				LIFETIME-POS=L				[1]
						P3;				1-1
						SEGMENT=BOTH				<u> </u>
	Com	iments: Cycle 3	30 comment: exposure	re time updated following FLUXTAB up	odate.					
	ETC <u>Set l</u>	C buffer time is buffer time = ex	520 sec. xptime - 110 sec							
	6		DARK	S/C, DATA, NONE			QASISTATES COS		1 Secs (1 Secs)	<u> </u>
							FUV HVLOW HVL OW		[==>]	[1]
	Com	ıments: Work-c	around 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]
	Com Cycl	iments: cycle 2 le 28 comment:	4 comment: exposure : we continue to use th	e times not reduced following updated 1 the same exposure time since difference	ETC calculations, a s do not affect orbi	lifferences not enough to it request.	affect orbit requested.			

8 G140L/800/ (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	367 Secs (367 Secs) [==>]	[2]
Comments: ETC buffer Set buffer time = exptin				P3		
9 G140L/1105 (1) /FUVA/LP3 (COS.sp.145 7846)	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]
Comments: ETC buffer Set buffer time = exptin	110 sec					
10 G130M/132 (1) 7/FUVA/LP 5 (COS.sp.145 7657)	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]
Comments: ETC buffer set buffer time = exptin						

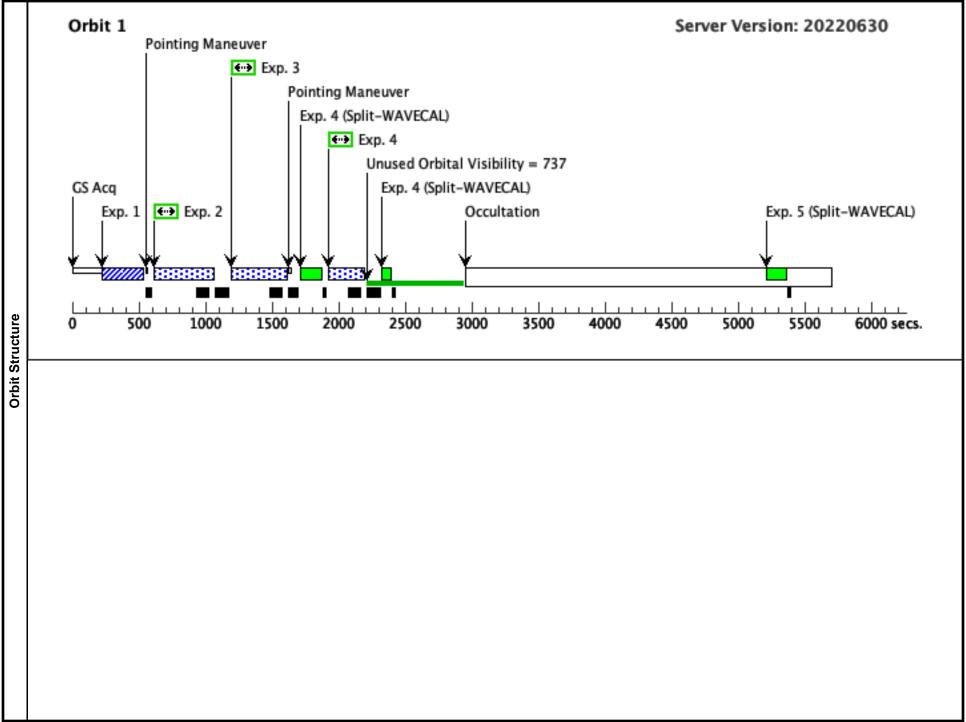


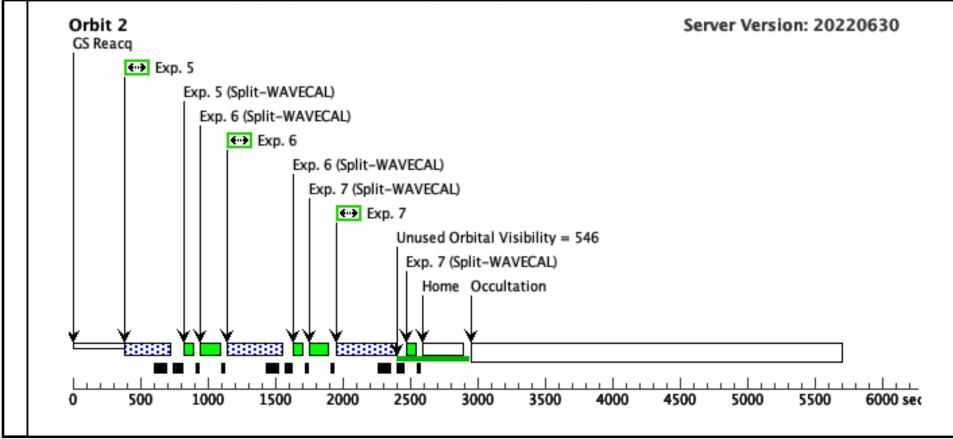


	Proposal 17249, WD0308-OCT				Wed May 24 16:01:00 GMT 2023					
	Diagnostic Status: Warning									
Visit	Scientific Instruments: COS/FUV	Scientific Instruments: COS/FUV, COS/NUV								
	Special Requirements: SCHED 1	00%; BETWEEN 06-OCT-2023:00:00:00 AND	26-OCT-2023:00:00:00							
		ons are with SEGMENT = BOTH. Using "SEGM ents monitored at LP4 and LP6. (FUVA is also ob	ENT=BOTH" instead of "SEGMENT=B" for both oserved for G160M using GD71 in visit 11).	h LP4 and LP6 observations for	the G160M settings to support a Cycle 30 GO					
	1533 & 1577 LP4									
Diagnostics	that may apply to observations w	ith G130M/1291 or G160M.	· · ·		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					
ğ		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr							
Ца		Equinox: J2000	Epoch of Position: 2000							
	Comments: Coordinates carried									

#	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]
Co. Cy	mments: cycle 2 cle 28 comment	24 comment: exposure : we continue to use t	e times not reduced following updated he 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/BOTH/LP 4 (COS.sp.145			1533 A	BUFFER-TIME=11 3;	l		[==>]	
	(eob.sp.145 7649)				LIFETIME-POS=L P4;	,			[1]
					SEGMENT=BOTH	[
		uffer time is 502 sec. xptime - 110 sec.							
3	G160M/157	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			291 Secs (291 Secs)	
	7/BOTH/LP 4			1577 A	BUFFER-TIME=18	3		[==>]	
	(COS.sp.154 0036)				1; LIFETIME-POS=L	,			[1]
					P4;				
Co	mmants: FTC h	uffer time is 644 sec.			SEGMENT=BOTH	l			
	buffer time = e	xptime - 110 sec							-
4	G160M/153 3/BOTH/LP	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			223 Secs (223 Secs)	
	6			1533 A	BUFFER-TIME=11 3;	l		[==>]	
	(COS.sp.145 7649)				LIFETIME-POS=L				[1]
					P6;				
					SEGMENT=BOTH	I			
		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]
	0050)				P6;				[-]
					SEGMENT=BOTH	[
Co. Set	mments: ETC b buffer time = e	uffer time is 644 sec. xptime - 110 sec							
6	G160M/161	(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	5		[==>]	
	(COS.sp.154 0046)				0; LIFETIME-POS=L				[2]
	0040)				P6;	, ,			[2]
					SEGMENT=BOTH	ſ			
Co. Set	mments: ETC b	uffer time is 755 sec. xptime - 110 sec							
Sel	oujjer time – e.	лрини - 110 зес							
1									

1	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					

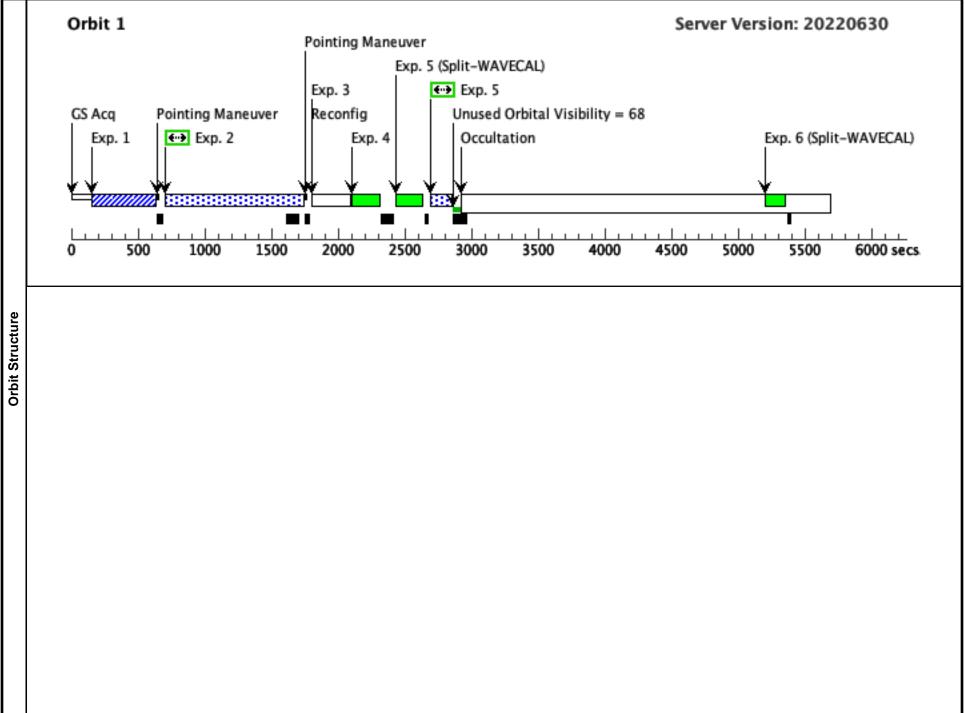




Γ	Proposal 17249 - GD Proposal 17249, GD71-OCT	' (11), implementation			Wed May 24 16:01:00 GMT 2023					
	Diagnostic Status: Warning									
	Scientific Instruments: S/C, C	OS/FUV, COS/NUV								
Visit	Special Requirements: SCHE	D 100%; BETWEEN 06-OCT-2023:00:00:00 AND	19-OCT-2023:00:00:00							
	George Chapman added Expe	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).								
	1533 & 1577 LP4									
Diagnostics			Torg Coord Corrections	Fluvos	Miscellanceus					
ŝ					Reference Frame: ICRS					
l e	(2) 02/1		1 5	1-15.001/ 0.01	Nelefence France. Texts					
ar		Equinox: J2000	Epoch of Position: 2000							
Dec: +15 53 13.23 (15.88701d) Proper Motion Dec: -172.944 mas/yr										

#	Label (ETC R	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IN	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs)	
	(COŠ.ta. 574)	839						[==>]	[1]
C	omments: Se	e Visit 02 comme	nts.						
2		109 (2) GD71	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=71			829 Secs (829 Secs)	
	6/FUVB 2	/LP		1096 A	9; ED DOS-2:			[==>]	
	(COS.sp 0351)	.182			FP-POS=3; SEGMENT=B;				[1]
	0331)				LIFETIME-POS=L				[1]
					P2				
C	omments: Cy	cle 30 comment:	exposure time updated following FLUXTAB u	pdate.					
F T S	UVB only (a he FUVB con et buffer-time	ll ETC warnings o unt rate is 549 cts e = exptime - 110	come from FUVA). /sec, so the buffer time is 2.35E6/566 = 4280 : sec	sec.					
3		DARK	S/C, DATA, NONE			QASISTATES COS		1 Secs (1 Secs)	
						FUV HVLOW HVL OW	,	[==>]	[1]
C	omments: W	ork-around to effi	ciently schedule the SEG-B to SEG-A reconfig	guration. Eliminate	es SPSS induced gaps.				4
4		109 WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;			160 Secs (160 Secs)	
	6/FUVA AVECA			1096 A	SEGMENT=A;			[==>]	
	P2				FLASH=NO;				[1]
res					LIFETIME-POS=L				1-3
ns	ommonts. So	e Visit 02 comme	nte		P2				
Exposures ₅ [∂		153 (2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=10			106 Secs (106 Secs)	
ן ד <u>ר</u>	3/FUVA			1533 A	6;			[==>]	
	6 (COS.sp	.145			FP-POS=3;				
	7660)				SEGMENT=A;				[1]
					LIFETIME-POS=L P6				
	omments: Fl ee Visit 02 co		C warnings come from FUVB).		10				
6		157 (2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=13			135 Secs (135 Secs)	
	7/FUVA 6	/LP		1577 A	5;			[==>]	
	(COS.sp	.145			FP-POS=3;				
	7661)				SEGMENT=A;				[2]
					LIFETIME-POS=L P6				
	omments: Fl ee Visit 02 co		C warnings come from FUVB).						4
7		161 (2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=15			159 Secs (159 Secs)	
	1/FUVA 6			1611 A	9;			[==>]	
	(COS.sp	.154			FP-POS=3;				
	0058)				SEGMENT=A;				[2]
					LIFETIME-POS=L P6				
Τ		int rate is 5172 ci	C warnings come from FUVB). ts/sec, so the buffer time is 2.35E6/5172 = 454	sec.					

	1623 A	7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>]	[2]
arnings come from FUVB).		P6		
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]
arnings come from FUVB).				
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]
	urnings come from FUVB). COS/FUV, TIME-TAG, PSA urnings come from FUVB).	urnings come from FUVB). COS/FUV, TIME-TAG, PSA G160M 1533 A urnings come from FUVB). COS/FUV, TIME-TAG, PSA G160M	1623 A 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P6 urnings come from FUVB). BUFFER-TIME=10 COS/FUV, TIME-TAG, PSA G160M BUFFER-TIME=10 1533 A 6; FP-POS=3; SEGMENT=A; LIFETIME-POS=L urnings come from FUVB). ECOS/FUV, TIME-TAG, PSA G160M SCOS/FUV, TIME-TAG, PSA G160M BUFFER-TIME=13 1577 A 5; FP-POS=3; SEGMENT=A; LIFETIME-POS=L LIFETIME-POS=L LIFETIME-POS=L	$1623 \text{ A} \qquad \begin{array}{c} 7; \\ FP-POS=3; \\ SEGMENT=A; \\ LIFETIME-POS=L \\ P6 \end{array} \qquad $



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

