

15773 - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

Cycle: 27, Proposal Category: CAL/COS (Availability Mode: RESTRICTED)

INVESTIGATORS

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VISITS

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
01	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	14-Aug-2020 13:00:37.0	yes
02	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	14-Aug-2020 13:00:39.0	yes
03	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	14-Aug-2020 13:00:41.0	yes
53	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	14-Aug-2020 13:00:43.0	yes

Proposal 15773 (STScI Edit Number: 6, Created: Friday, August 14, 2020 at 12:01:01 PM Eastern Standard Time) - Overview

	Targets used in Visit	Configurations used in Visit		sed Last Orbit Planner Run	OP Current with Visit?
04	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	14-Aug-2020 13:00:45.0	yes
54	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	14-Aug-2020 13:00:46.0	yes
05	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	14-Aug-2020 13:00:48.0	yes
06	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	14-Aug-2020 13:00:49.0	yes
07	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	14-Aug-2020 13:00:51.0	yes
57	(1) WD0308-565	COS/FUV COS/NUV	1	14-Aug-2020 13:00:53.0	yes
08	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	14-Aug-2020 13:00:54.0	yes
58	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	14-Aug-2020 13:00:56.0	yes
09	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	14-Aug-2020 13:00:57.0	yes
10	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	14-Aug-2020 13:00:59.0	yes

Proposal 15773 (STScI Edit Number: 6, Created: Friday, August 14, 2020 at 12:01:01 PM Eastern Standard Time) - Overview

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
11	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	14-Aug-2020 13:01:01.0	yes

36 Total Orbits Used

ABSTRACT

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

OBSERVING DESCRIPTION

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

Each sequence consists of 5 orbits: a 3 orbit visit (target WD0308-565) that covers

G130M/1055/FUVA,

G130M/1222,

G130M/1291,

G130M/1327/FUVA,

G160M/1533/FUVB

G160M/1577/FUVB,

G160M/1623/FUVB,

G140L/800/FUVA

G140L/1105/FUVA,

G140L/1280,

and a 2 orbit visit (target GD71) that covers

G130M/1096/FUVB,

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G160M/1533/FUVA,

G160M/1577/FUVA,

G160M/1623/FUVA.

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

SNR requirements:

- SNR of 15 per resel at wavelength of least sensitivity for the standard modes, SNR of 25 per resel at wavelength of most sensitivity for the blue modes. For the blue modes, this will ensure S/N > 15 for I > 1030 ang for I > 1030 and I > 1030
- TDS calibration better than 2% for standard modes and 10% for blue modes

Time constraints:

- Complete monitoring sequence should occur every 2 months starting in December 2018.
- GD71 is unschedulable May-July 2018, and therefore that sequence will consist of only one visit.

The exposure times and organization of visits follows the scheme used in Cycle 26, from February 2019 onward. As in Cycle 26, for all but one set of the WD0308-565 observations using G160M, the specifications now are SEGMENT=B (i.e. segment A is turned off). The one exception is the June sequence (visit 07) for which the specifications are SEGMENT=BOTH for these modes, because GD71 is not available during this period.

May 22, 2020 Update: Visit 07 has been updated to include Spectroscopic Acquisition exposures at the beginning of the visit as part of the on-orbit hybrid gyro mode test being conducted by GSFC. The remaining exposures are unchanged.

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	1	Proposal 15773, WD0308-DEC (01	1), completed			Fri Aug 14 17:01:01 GMT 2020				
.≝										
/is										
1-	Special Requirements: SCHED 100%; BETWEEN 26-DEC-2019:00:00:00 AND 08-JAN-2020:00:00									
	Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).									
۱,,	#	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
gets	((1) WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 0.018141 sec of time/yr	V=14.07+/-0.02	Reference Frame: ICRS				
2	1		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 0.0643 arcsec/yr						
I⊢			Equinox: J2000	Epoch of Position: 2000						
l b		Comments: Coordinates carried ove	er from Cycle 25 proposal							
lĕ		Category=STAR Description=[DB]								
Ľ		Extended=NO								

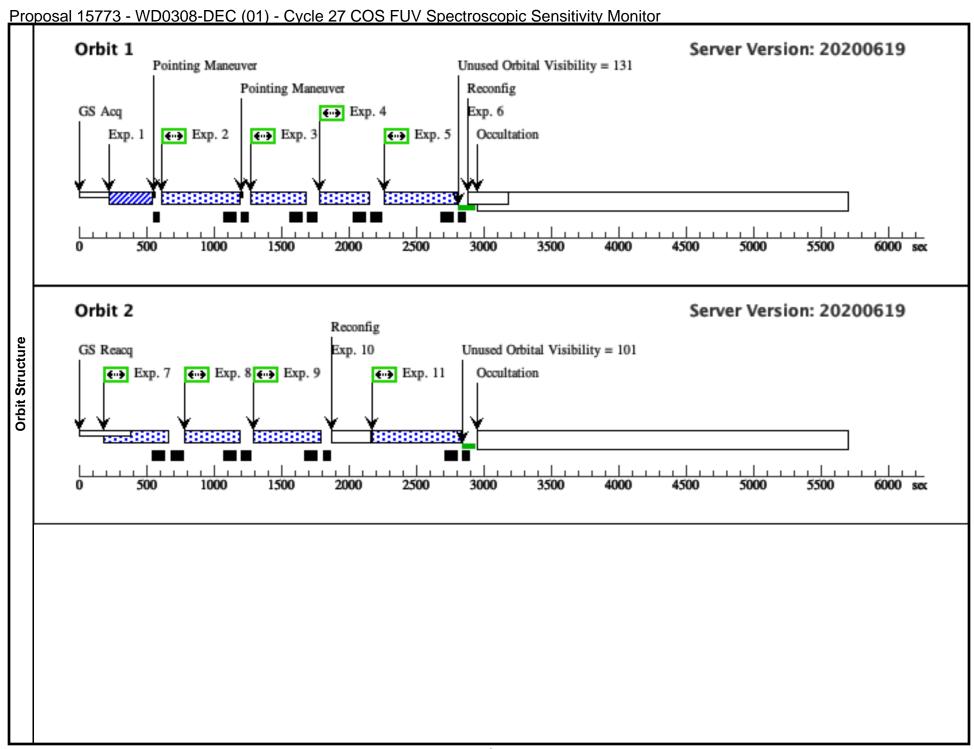
Proposal 15773 - WD0308-DEC (01) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

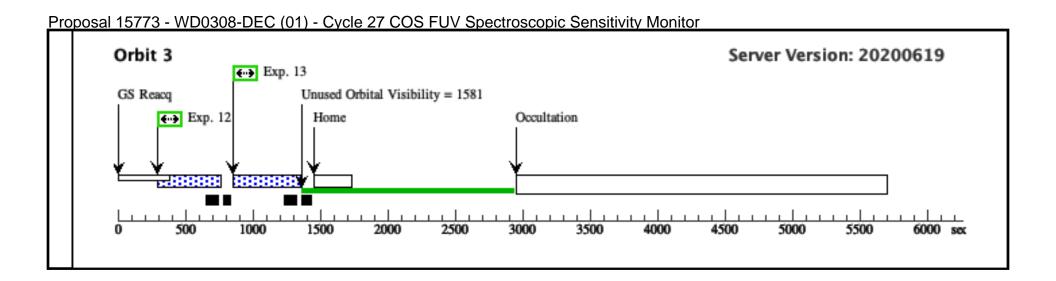
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
	(839564)							[==>]	[1]
Con			e times not reduced following updated			affect orbit requeste	ed.		
2	G130M/105 5/LP2	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=26 3;			363 Secs (363 Secs)	
	(COS.sp.130			1055 A	FP-POS=3;			[==>]	
	2752)				SEGMENT=BOTH;				[1]
					LIFETIME-POS=L P2				123
Targ Set l	nments: ETC b get has been ob buffer time = e tinue use of 1		nan exptime (1482) ed to 2/3 factor						
3	G130M/122	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=15			254 Secs (254 Secs)	
	2 (COS.sp.130			1222 A	4;			[==>]	
	2754)				FP-POS=3;				
					LIFETIME-POS=L P4;				[1]
					SEGMENT=BOTH				
Comments: ETC buffer time is 395 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 126 Continue use of 1 FP-POS									
4	G130M/129	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=13			233 Secs (233 Secs)	
	(COS.sp.131	COS.sp.131	1291 A	3; FP-POS=3;			[==>]		
	1908)				LIFETIME-POS=L				[1]
					P4;				[-]
					SEGMENT=BOTH				
Sinc	nments: ETC b ce buffer time le tinue use of 1	irger than exptime us	Target has been observed before and se buffer time = exptime -100 sec to m	so no need for 2/3 s aximize time on tarş	afety margin. get = 144				
5	G140L/1280	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=22			328 Secs (328 Secs)	
	(COS.sp.102 1719)			1280 A	8;			[==>]	
	,				FP-POS=3; LIFETIME-POS=L				F11
					P4;				[1]
					SEGMENT=BOTH				
Targ Set l	get has been ol	uffer time is 451, larg served before no nee xptime - 100 = 180 FP-POS	ger than exptime ed to 2/3 factor						
6		DARK	S/C, DATA, NONE			QASISTATES CO	os	1 Secs (1 Secs)	
						FUV HVLOW HV OW	L	[==>]	[1]
Com	nments: Work-e	around to efficiently :	schedule the reconfiguration to SEG-A	. Eliminates SPSS	induced gaps.				

G100M/133 (1)	WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	222 Secs (222 Secs)	
3/B			1533 A	BUFFER-TIME=12	[==>]	
(COS.sp.131 1897)				2;		
				LIFETIME-POS=L P4;		Į.
				SEGMENT=B		
Comments: ETC buffer Target has been observ Set buffer time = exptin	ved before no nee	er than exptime d to 2/3 factor				,
Continue use of 1 FP-F	POS					
G160M/157 (1)		COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	273 Secs (273 Secs)	
7/B (COS.sp.131			1577 A	BUFFER-TIME=17	[==>]	
1899)				3;		
				LIFETIME-POS=L P4;		
				SEGMENT=B		
Comments: ETC buffer	r time is 599, larg	er than exptime				
Farget has been observ Set buffer time = exptin	ved before no nee	d to 2/3 factor				
Continue use of 1 FP-F					T	<u> </u>
G160M/162 (1) 3/B	WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	369 Secs (369 Secs)	
(COS.sp.131			1623 A	BUFFER-TIME=26 9;	[==>]	
1901)				LIFETIME-POS=L		
				P4;		'
				SEGMENT=B		
Comments: ETC buffer Target has been observ Set buffer time = exptin Continue use of 1 FP-F	r time is 799, larg ved before no nee me - 100 = 300 POS	er than exptime d to 2/3 factor		SEGMENT=B		
Target has been observ Set buffer time = exptin Continue use of 1 FP-F	r time is 799, larg ved before no nee me - 100 = 300 POS ARK	er than exptime d to 2/3 factor S/C, DATA, NONE		QASISTATES COS	1 Secs (1 Secs)	
Target has been observ Set buffer time = exptin Continue use of 1 FP-F	ved before no nee me - 100 = 300 POS	d to 2/3 factor		QASISTATES COS FUV HVLOW HVL	1 Secs (1 Secs) [==>]	
Farget has been observiet buffer time = exptin Continue use of 1 FP-F 0 DA	ved before no nee me - 100 = 300 POS ARK	d to 2/3 factor S/C, DATA, NONE	A Fliminates SPS	QASISTATES COS FUV HVLOW HVL OW		
Farget has been observiet buffer time = exptir Continue use of 1 FP-F O DA	ved before no nee me - 100 = 300 POS ARK and to efficiently s	d to 2/3 factor S/C, DATA, NONE chedule the reconfiguration to SEG-		QASISTATES COS FUV HVLOW HVL OW SS induced gaps.	[==>]	
Comments: Work-arou. 1 G140L/800/ (1) FUVA	ved before no nee me - 100 = 300 POS ARK and to efficiently s	d to 2/3 factor S/C, DATA, NONE	A. Eliminates SPS G140L 800 A	QASISTATES COS FUV HVLOW HVL OW	[==>] 363 Secs (363 Secs)	
Comments: Work-arou. 1 G140L/800/ (1) FUVA	ved before no nee me - 100 = 300 POS ARK and to efficiently s	d to 2/3 factor S/C, DATA, NONE chedule the reconfiguration to SEG-	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26	[==>]	
Carget has been observiet buffer time = exptir Continue use of 1 FP-F O DA Comments: Work-arou 1 G140L/800/ (1)	ved before no nee me - 100 = 300 POS ARK and to efficiently s	d to 2/3 factor S/C, DATA, NONE chedule the reconfiguration to SEG-	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A;	[==>] 363 Secs (363 Secs)	
Comments: Work-arou. 1 G140L/800/ (1) FUVA	ved before no nee me - 100 = 300 POS ARK and to efficiently s	d to 2/3 factor S/C, DATA, NONE chedule the reconfiguration to SEG-	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Comments: Work-arou G140L/800/ (1) FUVA (COS.sp.130 2815)	wed before no neeme - 100 = 300 POS ARK and to efficiently s WD0308-565	d to 2/3 factor S/C, DATA, NONE <u>chedule the reconfiguration to SEG-</u> COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A;	[==>] 363 Secs (363 Secs)	
Comments: ETC buffer farget has been observed to the service of 1 FP-F or DA Comments: Work-arou. 1 G140L/800/ (1) FUVA (COS.sp.130 2815)	ved before no neeme - 100 = 300 POS ARK and to efficiently s WD0308-565 r time is 362, larged before no neeme	s/C, DATA, NONE s/C, DATA, NONE chedule the reconfiguration to SEG- COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Comments: ETC buffer time that buffer time = expting the series of 1 FP-F or the series of 1 FUVA (COS.sp.130 2815)	wed before no neeme - 100 = 300 POS ARK and to efficiently s WD0308-565 r time is 362, larged before no neeme - 100 = 263	s/C, DATA, NONE s/C, DATA, NONE chedule the reconfiguration to SEG- COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Comments: ETC buffer farget has been observed to the service of 1 FP-F or DA Comments: Work-arou. 1 G140L/800/ (1) FUVA (COS.sp.130 2815)	wed before no neeme - 100 = 300 POS ARK and to efficiently s WD0308-565 r time is 362, larged before no neeme - 100 = 263	s/C, DATA, NONE s/C, DATA, NONE chedule the reconfiguration to SEG- COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Comments: ETC buffer time that buffer time = expting the series of 1 FP-F or the series of 1 FUVA (COS.sp.130 2815)	wed before no neeme - 100 = 300 POS ARK and to efficiently s WD0308-565 r time is 362, larged before no neeme - 100 = 263	s/C, DATA, NONE s/C, DATA, NONE chedule the reconfiguration to SEG- COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Comments: ETC buffer time that buffer time = expting the series of 1 FP-F or the series of 1 FUVA (COS.sp.130 2815)	wed before no neeme - 100 = 300 POS ARK and to efficiently s WD0308-565 r time is 362, larged before no neeme - 100 = 263	s/C, DATA, NONE s/C, DATA, NONE chedule the reconfiguration to SEG- COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Comments: ETC buffer time that buffer time = expting the series of 1 FP-F or the series of 1 FUVA (COS.sp.130 2815)	wed before no neeme - 100 = 300 POS ARK and to efficiently s WD0308-565 r time is 362, larged before no neeme - 100 = 263	s/C, DATA, NONE s/C, DATA, NONE chedule the reconfiguration to SEG- COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Comments: ETC buffer time that buffer time = expting the series of 1 FP-F or the series of 1 FUVA (COS.sp.130 2815)	wed before no neeme - 100 = 300 POS ARK and to efficiently s WD0308-565 r time is 362, larged before no neeme - 100 = 263	s/C, DATA, NONE s/C, DATA, NONE chedule the reconfiguration to SEG- COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	

Proposal 15773 - WD0308-DEC (01) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

12 G140L/1105 (1) WD0308-565 COS/FUV, TIME-TAG, PS//FUVA (COS.sp.102 1720)	A G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	327 Secs (327 Secs) [==>]	[3]
Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS 13 G130M/132 (1) WD0308-565 COS/FUV, TIME-TAG, PS/	A G130M	BUFFER-TIME=17	278 Secs (278 Secs)	
7/FUVA (COS.sp.102 1693)	1327 A	8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	[==>]	[3]





Proposal 15773 - GD71-DEC (02) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

Proposal 15773, GD71-DEC (02), completed Fri Aug 14 17:01:02 GMT 2020

Diagnostic Status: No Diagnostics

Scientific Instruments: S/C, COS/FUV, COS/NUV

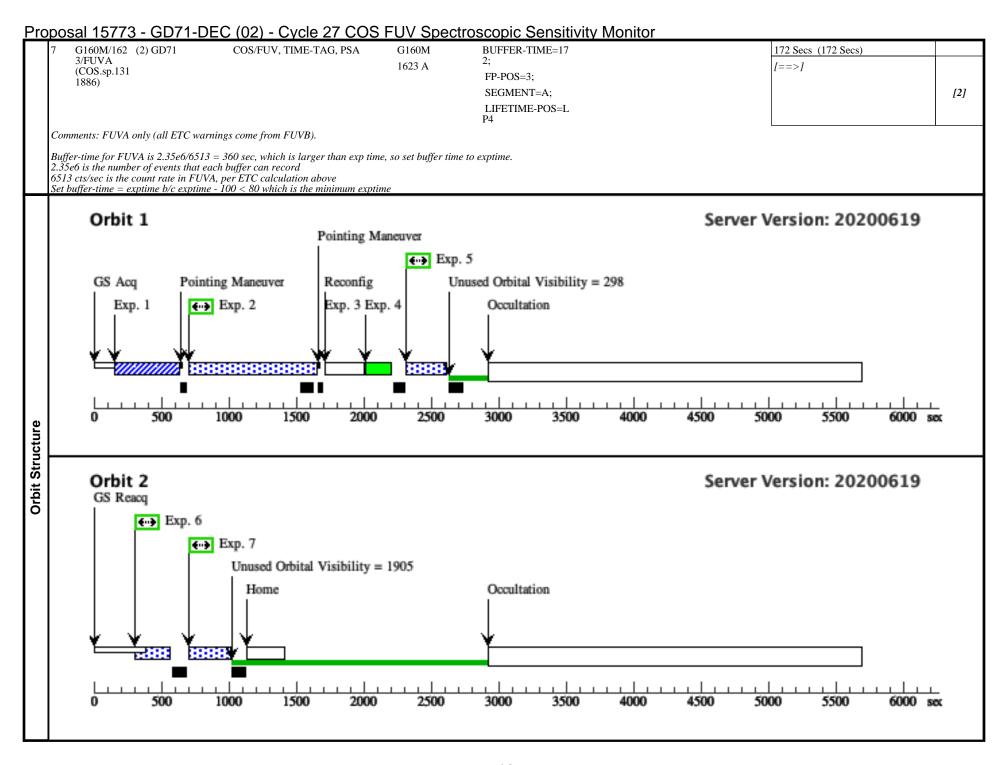
Special Requirements: SCHED 100%; BETWEEN 26-DEC-2019:00:00:00 AND 08-JAN-2020:00:00:00

Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation
George Chapman added Exposure 3
Optimized the exposure time for the G130M/1096 setting to increase its SNR (exp time = 744 s) while remaining within the allocated time.

	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
ış	(2)	GD71	RA: 05 52 27.6100 (88.1150417d)	Proper Motion RA: 85 mas/yr	V=13.06+/-0.01	Reference Frame: ICRS
rget			Dec: +15 53 13.80 (15.88717d)	Proper Motion Dec: -174 mas/yr		
⊒l			Equinox: J2000	Epoch of Position: 2000		
Fixed		over from Cycle 25 pt =STAR ion=[DA]	C amd PM as in proposal 12392 by Bohlin et al. roposal.			

Proposal 15773 - GD71-DEC (02) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IM	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs)	
		(COS.ta.839 574)							I = => J	[1]
	Con	nments: Exptim	e for S/N of 60 is 1	05.5 sec, using 90 sec leads to S/N of 55						
	2	G130M/109	(2) GD71	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=64			744 Secs (744 Secs)	
		6/FUVB/LP 2			1096 A	4; FP-POS=3;			[==>]	
		(COS.sp.839 576)				SEGMENT=B;				[1]
		5,0)				LIFETIME-POS=L				[-]
						P2				
	Con Set i	nments: FUVB buffer-time = e	only (all ETC warr xptime - 100 sec =	nings come from FUVA). 644 to maximize time on target.						
ľ	3	sugger rime e.	DARK	S/C, DATA, NONE			QASISTATES CO	S	1 Secs (1 Secs)	
							FUV HVLOW HVI OW	L	[==>]	[1]
	Con	nments: Work-a	around to efficiently	y schedule the SEG-B to SEG-A reconfig	puration. Eliminate.	s SPSS induced gaps.	011			
ı	4	G130M/109		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;			140 Secs (140 Secs)	
		6/FUVA W AVECAL/L			1096 A	SEGMENT=A;			[==>]	
		P2				FLASH=NO;				[1]
						LIFETIME-POS=L				[1]
,	5	G160M/153	(2) CD71	COS/FUV, TIME-TAG, PSA	G160M	P2 BUFFER-TIME=10			103 Secs (103 Secs)	
<u>re</u>	3	3/FUVA	(2) GD/1	COS/FUV, TIME-TAG, FSA	1533 A	3;			[==>]	
Exposures		(COS.sp.131 1884)			1333 11	FP-POS=3;			11	
ğΙ		,				SEGMENT=A;				[1]
Ш́						LIFETIME-POS=L P4				
	Con	nments: FUVA	only (all ETC warr	nings come from FUVB).		17				
	2.35 651.	5e6 is the numb 3 cts/sec is the	er of events that ea count rate in FUVA	= 360 sec, which is larger than exp time ch buffer can record A, per ETC calculation above - 100 < 80 which is the minimum exptin		to exptime.				
ľ	6	G160M/157		COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=13			132 Secs (132 Secs)	
		7/FUVA (COS.sp.131			1577 A	2;			[==>]	
		1885)				FP-POS=3;				507
						SEGMENT=A;				[2]
						LIFETIME-POS=L P4				
	Con	nments: FUVA	only (all ETC warr	nings come from FUVB).						
	2.35 651.	5e6 is the numb 3 cts/sec is the	er of events that ea count rate in FUVA	= 360 sec, which is larger than exp time ch buffer can record A, per ETC calculation above - 100 < 80 which is the minimum exptin		to exptime.				



Proposal 15773 - WD0308-FEB (03) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

0 0	<i>"</i>			Fri Aug 14 17:01:02 GMT 2020									
0 0	S												
	Diagnostic Status: No Diagnostics												
Scientific Instruments: S/C, COS/FUV, COS/NUV													
Special Requirements: SCHED 100%; BETWEEN 18-FEB-2020:00:00 AND 27-FEB-2020:00:00													
Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).													
Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous									
1) WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 0.018141 sec of time/yr	V=14.07+/-0.02	Reference Frame: ICRS									
	Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 0.0643 arcsec/yr											
	Equinox: J2000	Epoch of Position: 2000											
	ver from Cycle 25 proposal												
Category=STAR													
1	Name WD0308-565 Omments: Coordinates carried ov	Name Target Coordinates	Name Target Coordinates Target Coordinates Target Coordinates Target Coordinates Name Target Coordinates Target Coordinates Target Coordinates Name Target Coordinates Target Coordinates Target Coordinates Coo	Name Target Coordinates Targ. Coord. Corrections Fluxes) WD0308-565 RA: 03 09 47.9200 (47.4496667d) Proper Motion RA: 0.018141 sec of time/yr V=14.07+/-0.02 Dec: -56 23 49.41 (-56.39706d) Proper Motion Dec: 0.0643 arcsec/yr Equinox: J2000 Epoch of Position: 2000									

Proposal 15773 - WD0308-FEB (03) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
	(839564)							[==>]	[1]
Con			re times not reduced following updated		**	affect orbit requeste	d.		1
2	G130M/105 5/LP2	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=26 3;			363 Secs (363 Secs)	
	(COS.sp.130)		1055 A	FP-POS=3;			[==>]	
	2752)				SEGMENT=BOTH				[1]
					LIFETIME-POS=L P2	•			[2]
Targ Set	nments: ETC b get has been of buffer time = e ttinue use of 1		han exptime (1482) ed to 2/3 factor						
3		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=15			254 Secs (254 Secs)	
	2 (COS.sp.130)		1222 A	4;			[==>]	
	2754)				FP-POS=3;				(11
					LIFETIME-POS=L P4;				[1]
					SEGMENT=BOTH				
Sinc	ce buffer time l tinue use of 1	arger than exptime u	Target has been observed before and use buffer time = exptime -100 sec to m COS/FUV, TIME-TAG, PSA					233 Secs (233 Secs)	
4	1		CO3/10 V, 11WE-1AG, 13A	1291 A	3;			[==>]	
	(COS.sp.131 1908)			127171	FP-POS=3;			1>1	
	,				LIFETIME-POS=L				[1]
					P4; SEGMENT=BOTH				
Sinc	nments: ETC b ce buffer time l ttinue use of I	arger than exptime u	Target has been observed before and use buffer time = exptime -100 sec to m	so no need for 2/3 s aximize time on targ	afety margin.				
5		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=22			328 Secs (328 Secs)	
	(COS.sp.102 1719)			1280 A	8;			[==>]	
	,				FP-POS=3; LIFETIME-POS=L				[11
					P4;				[1]
					SEGMENT=BOTH				
Tar _z Set	get has been o	ouffer time is 451, lar bserved before no ne exptime - 100 = 180 FP-POS	ger than exptime ed to 2/3 factor						
6		DARK	S/C, DATA, NONE			QASISTATES CO	s	1 Secs (1 Secs)	
						FUV HVLOW HV OW	L	[==>]	[1]
Con	nments: Work-	around to efficiently	schedule the reconfiguration to SEG-A	a. Eliminates SPSS	induced gaps.				•

) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;		222 Secs (222 Secs)	
		1533 A	BUFFER-TIME=12		[==>]	
			2;			
			LIFETIME-POS=L P4;			Į.
			<i>'</i>			
er time is 487, larg rved before no nee ime - 100	er than exptime ed to 2/3 factor					
-POS						
) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;		273 Secs (273 Secs)	
		1577 A			[==>]	
			3;			
			<i>'</i>			
er time is 599, larg	ger than exptime					
rved before no nee ime - 100	d to 2/3 factor					
-POS					Table 10 10 10 10 10 10 10 10 10 10 10 10 10	
) WD0308-565	COS/FUV, TIME-TAG, PSA					
		1623 A			[==>]	
			,			
			P4;			'
			SEGMENT=B			
er time is 799, larg rved before no nee time - 100 = 300	er than exptime ed to 2/3 factor					
				OASISTATES COS	1 Secs (1 Secs)	
AKK	S/C, DATA, NONE			FUV HVLOW HVL		
				OW	1>1	1
					262 5 (262 5)	
1) WD0308-565	COS/FUV, TIME-TAG, PSA				` '	
		800 A	FP-POS=3;		[==>]	
			SEGMENT=A;			
			LIFETIME-POS=L			
er time is 362, larg			P4			
	er time is 599, largred before no nee ime - 100 POS) WD0308-565 er time is 599, largred before no nee ime - 100 POS) WD0308-565 er time is 799, largred before no nee ime - 100 = 300 POS ARK	POS ONE OF THE POS ONE OF TH	ryed before no need to 2/3 factor ime - 100 POS) WD0308-565 COS/FUV, TIME-TAG, PSA G160M 1577 A Per time is 599, larger than exptime ryed before no need to 2/3 factor ime - 100 POS) WD0308-565 COS/FUV, TIME-TAG, PSA G160M 1623 A Per time is 799, larger than exptime ryed before no need to 2/3 factor ime - 100 = 300 POS ARK S/C, DATA, NONE und to efficiently schedule the reconfiguration to SEG-A. Eliminates SP:	SEGMENT=B ret time is 487, larger than exptime eved before no need to 2/3 factor ime - 100 POS) WD0308-565 COS/FUV, TIME-TAG, PSA G160M FP-POS=3; LIFETIME-POS=L P4; SEGMENT=B ret time is 599, larger than exptime eved before no need to 2/3 factor ime - 100 POS) WD0308-565 COS/FUV, TIME-TAG, PSA G160M FP-POS=3; LIFETIME-POS=L P4; SEGMENT=B ret time is 799, larger than exptime eved before no need to 2/3 factor ime - 100 = 300 POS ARK S/C, DATA, NONE set time is 799, larger than exptime eved before no need to 2/3 factor ime - 100 = 300 POS ARK S/C, DATA, NONE set time is 799, larger than exptime eved before no need to 2/3 factor ime - 100 = 300 POS ARK S/C, DATA, NONE set time is 799, larger than exptime eved before no need to 2/3 factor ime - 100 = 300 POS ARK S/C, DATA, NONE set time is 799, larger than exptime eved before no need to 2/3 factor ime - 100 = 300 POS ARK S/C, DATA, NONE set time is 799, larger than exptime eved before no need to 2/3 factor ime - 100 = 300 POS ARK S/C, DATA, NONE set time is 799, larger than exptime eved before no need to 2/3 factor ime - 100 = 300 POS ARK S/C, DATA, NONE set time is 799, larger than exptime eved before no need to 2/3 factor ime - 100 = 300 POS ARK S/C, DATA, NONE set time is 799, larger than exptime eved before no need to 2/3 factor ime - 100 = 300 POS ARK S/C, DATA, NONE set time is 799, larger than exptime eved before no need to 2/3 factor ime - 100 = 300 POS ARK S/C, DATA, NONE	SEGMENT=B SEGMENT=B	SEGMENT

8;

P4;

BUFFER-TIME=17

FP-POS=3; LIFETIME-POS=L 278 Secs (278 Secs)

[3]

[==>]

SEGMENT=A

Comments: ETC buffer time is 320 sec. Target has been observed before and so no need for 2/3 safety margin.

Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 212

G130M

1327 A

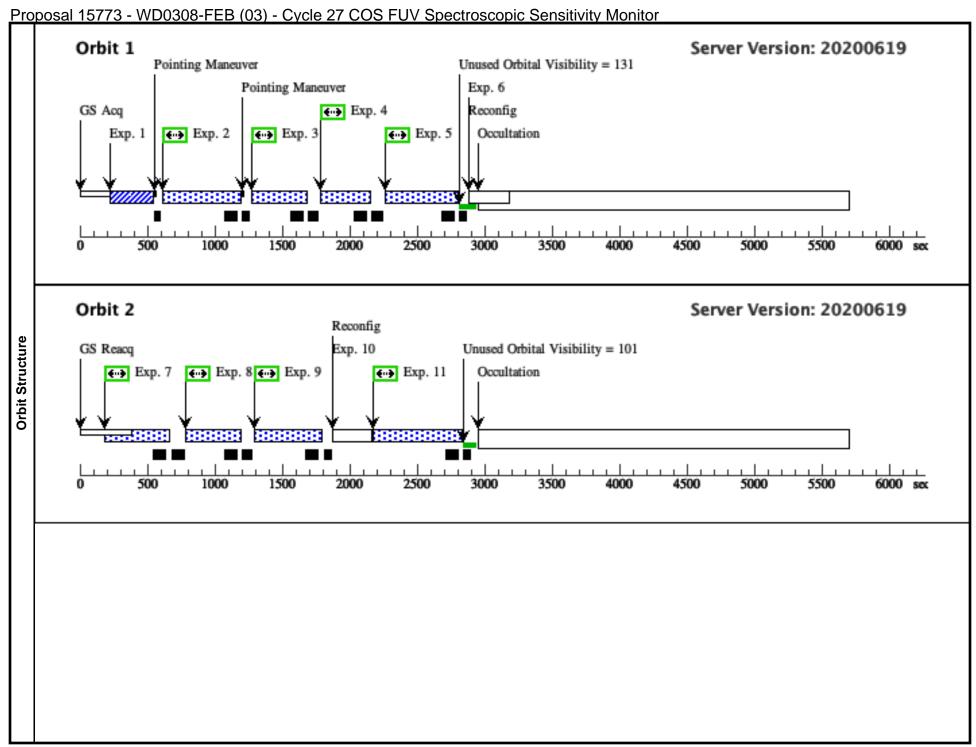
COS/FUV, TIME-TAG, PSA

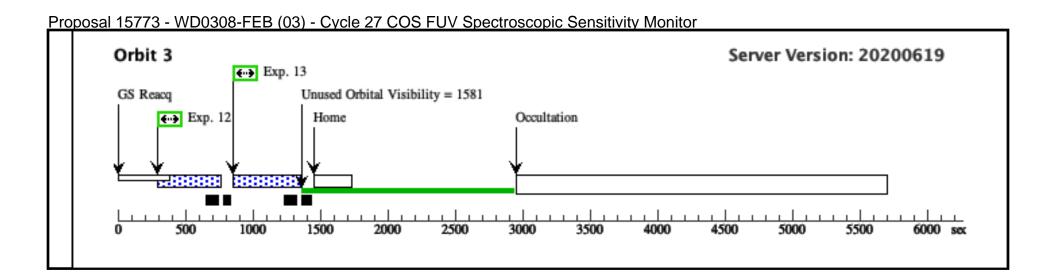
13 G130M/132 (1) WD0308-565

7/FUVA

(COS.sp.102 1693)

Continue use of 1 FP-POS





Proposal 15773 - WD0308-FEB (53) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

<u> </u>	<u> </u>	000 1 LD (00) Oyolc 21 000	rov specifoscopic sensitivity ivi	Officol	
	Proposal 15773, WD0308-FEB	3 (53), completed			Fri Aug 14 17:01:02 GMT 2020
.≝	Diagnostic Status: No Diagnos	itics			
/is	Scientific Instruments: S/C, CO	S/FUV, COS/NUV			
1	Special Requirements: SCHED	100%			
	Comments: All G160M observat	tions are with $SEGMENT = B$ (i.e. segment A is two	rned off).		
۱,	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
gets	(1) WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 0.018141 sec of time/yr	V=14.07+/-0.02	Reference Frame: ICRS
E		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 0.0643 arcsec/yr		
⊨		Equinox: J2000	Epoch of Position: 2000		
e l	Comments: Coordinates carried	l over from Cycle 25 proposal			
ΙĚ	Category=STAR Description=[DB]				
Ľ	Extended=NO				

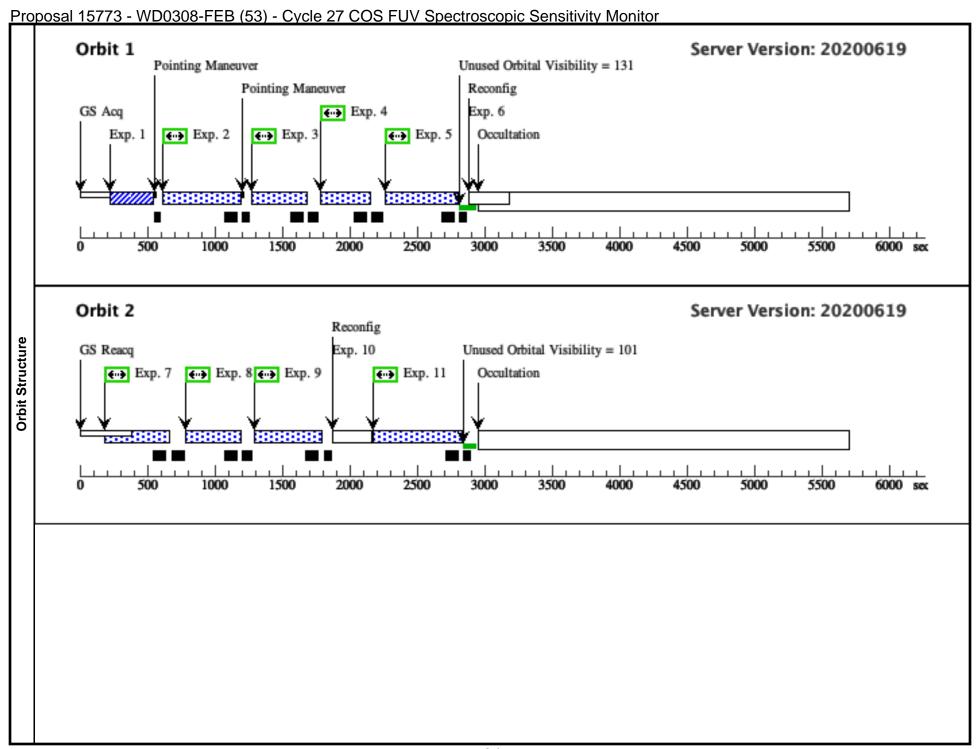
Proposal 15773 - WD0308-FEB (53) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

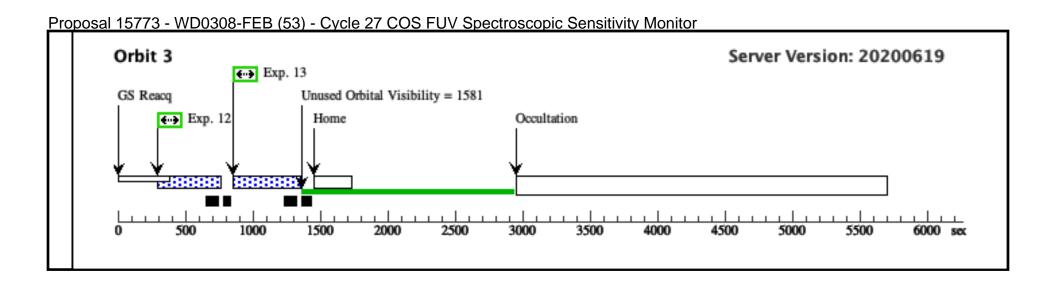
Commen Commen Commen Commen Continue Cotton Commen Cotton Cott	39564) nts: cycle 2- 130M/105 LP2 COS.sp.130 552) nts: ETC but has been obser time = exe of 1 F 130M/122 COS.sp.130 554)	(1) WD0308-565 Iffer time is larger the served before no need prime 100	COS/NUV, ACQ/IMAGE, BOA times not reduced following updated COS/FUV, TIME-TAG, PSA an exptime (1482) d to 2/3 factor COS/FUV, TIME-TAG, PSA	G130M 1055 A	differences not enough to BUFFER-TIME=26 3; FP-POS=3; SEGMENT=BOTH: LIFETIME-POS=L P2 BUFFER-TIME=15		d.	45 Secs (45 Secs) [==>] 363 Secs (363 Secs) [==>]	[1]
Commen Commen Commen Continue GCC COMMEN CONTINUE COMMEN COMME	nts: cycle 24 130M/105 LP2 COS.sp.130 (52) nts: ETC but has been obser time = exterm of 1 F 130M/122 COS.sp.130 (54)	(1) WD0308-565 Iffer time is larger the served before no need to the control of	COS/FUV, TIME-TAG, PSA an exptime (1482) d to 2/3 factor	G130M 1055 A	BUFFER-TIME=26 3; FP-POS=3; SEGMENT=BOTH: LIFETIME-POS=L P2		d.	363 Secs (363 Secs)	
2 G1 5/I (CC 27: Commen Target h Set buffe Continue 3 G1 2 (CC 27: Commen Since bu Continue	130M/105 LP2 COS.sp.130 (52) Ints: ETC but has been obser time = extern use of 1 F 130M/122 COS.sp.130 (54)	(1) WD0308-565 Iffer time is larger the served before no need to the control of	COS/FUV, TIME-TAG, PSA an exptime (1482) d to 2/3 factor	G130M 1055 A	BUFFER-TIME=26 3; FP-POS=3; SEGMENT=BOTH: LIFETIME-POS=L P2		d.	` '	[1]
Commen 2 Commen Since but Continue	LP2 COS.sp.130 (52) Ints: ETC but has been obser time = exter use of 1 F 130M/122 COS.sp.130 (54) Ints: ETC but has been observed by the series of 1 F 130M/122 COS.sp.130	iffer time is larger the served before no need ptime - 100 P-POS	an exptime (1482) d to 2/3 factor	1055 A G130M	3; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2	;		` '	[1]
Commen Since but Continue	nts: ETC but has been obser time = extense of 1 F 130M/122 COS.sp.130 onts: ETC but has been sold the second of 1 F 130M/122 cos.sp.130	served before no need optime - 100 P-POS	d to 2/3 factor	G130M	FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2	;		[==>]	[1]
Commen Target h Set buffe Continue 3 G1 2 (CC 27:	nts: ETC but has been obser time = exe use of 1 F 130M/122 COS.sp.130 54) nts: ETC bu	served before no need optime - 100 P-POS	d to 2/3 factor		SEGMENT=BOTH LIFETIME-POS=L P2	;			[1]
Target h Set buffe Continue Gottinue Gottinue Correct Commen Since bu Continue	thas been observations been time = experime = experime = experiments of 1 F 130M/122 COS.sp.130 TOS.sp.130 TOS.sp.130	served before no need optime - 100 P-POS	d to 2/3 factor		LIFETIME-POS=L P2	,			
Target h Set buffe Continue Gottinue Gottinue Correct Commen Since bu Continue	thas been observations been time = experime = experime = experiments of 1 F 130M/122 COS.sp.130 TOS.sp.130 TOS.sp.130	served before no need optime - 100 P-POS	d to 2/3 factor		RIJEEED TIME_15				
2 (CO 27: Commen Since bu Continue	COS.sp.130 (54) nts: ETC bu	(1) WD0308-565	COS/FUV, TIME-TAG, PSA		RUFFED TIME_15				
27: Commen Since bu Continue	(54) nts: ETC bu							254 Secs (254 Secs)	
27: Commen Since bu Continue	(54) nts: ETC bu		2 (COS.sp.130 2754)	1222 A	4;			[==>]	
Since bu Continue	nts: ETC bu				FP-POS=3;				[11
Since bu Continue	nts: ETC bu				LIFETIME-POS=L P4;				[1]
Since bu Continue	nts: ETC bu				SEGMENT=BOTH				
4 G1	e use of 1 F	rger than exptime us P-POS	Target has been observed before and e buffer time = exptime -100 sec to m	aximize time on tar	get = 126				
		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=13 3;			233 Secs (233 Secs)	+
(C)	OS.sp.131			1291 A	FP-POS=3;			[==>]	
150	700)				LIFETIME-POS=L				[1]
					P4;				
C	ETCI	m : 222	T	16 2/2	SEGMENT=BOTH				
Commen Since bu Continue	nts: ETC bu uffer time la se use of 1 F	gjer time is 322 sec. rger than exptime us P-POS	Target has been observed before and e buffer time = exptime -100 sec to m	so no neea for 2/3 s aximize time on tar	get = 144				
5 G1	140L/1280	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=22			328 Secs (328 Secs)	
17	OS.sp.102 (19)			1280 A	8; FP-POS=3;			[==>]	
					LIFETIME-POS=L				[1]
					P4;				[1]
					SEGMENT=BOTH				
Target h Set buffe	has been ob	affer time is 451, larg served before no need optime - 100 = 180 P-POS							
6		DARK	S/C, DATA, NONE			QASISTATES CO	S	1 Secs (1 Secs)	
						FUV HVLOW HV OW	L	[==>]	[1]
Commen	nts: Work-a	round to efficiently s	chedule the reconfiguration to SEG-A	A. Eliminates SPSS	induced gaps.	J.,,		L	

	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	222 Secs (222 Secs)	
3/B	1		1533 A	BUFFER-TIME=12	[==>]	
(COS.sp.131 1897)	1			2;		
				LIFETIME-POS=L P4;		[
				SEGMENT=B		
Comments: ETC l Target has been o Set buffer time = 0	buffer time is 487, larg bserved before no nee exptime - 100	ger than exptime ed to 2/3 factor				
Continue use of 1	FP-POS					
	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	273 Secs (273 Secs)	
7/B (COS.sp.131	1		1577 A	BUFFER-TIME=17	[==>]	
1899)	I			3;		
				LIFETIME-POS=L P4;		1
				SEGMENT=B		
Comments: ETC l	buffer time is 599, larg	ger than exptime				
Target has been o Set buffer time = 6	bserved before no nee	ed to 2/3 factor				
Continue use of 1						
G160M/162 3/B	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	369 Secs (369 Secs)	
(COS.sp.131 1901)	1		1623 A	BUFFER-TIME=26 9;	[==>]	
				LIFETIME-POS=L		
				P4;		'
				SEGMENT=B		
Comments: ETC l Target has been o Set buffer time = 0 Continue use of 1	buffer time is 799, larş bserved before no nec exptime - 100 = 300 FP-POS	ger than exptime ed to 2/3 factor		SEGMENT=B		
Comments: ETC l Carget has been o Set buffer time = o Continue use of 1	buffer time is 799, larg bserved before no nee exptime - 100 = 300 FP-POS DARK	ger than exptime ed to 2/3 factor S/C, DATA, NONE		QASISTATES COS	1 Secs (1 Secs)	
Target has been o Set buffer time = 6 Continue use of 1	bserved before no nee exptime - 100 = 300 FP-POS	ed to 2/3 factor		QASISTATES COS FUV HVLOW HVL	1 Secs (1 Secs) [==>]	
Target has been o Set buffer time = 6 Continue use of 1	bserved before no nee exptime - 100 = 300 FP-POS DARK	ed to 2/3 factor S/C, DATA, NONE	A Eliminatos SP	QASISTATES COS FUV HVLOW HVL OW		
Target has been o Set buffer time = o Continue use of 1 10 Comments: Work	bserved before no nee exptime - 100 = 300 FP-POS DARK -around to efficiently	ed to 2/3 factor S/C, DATA, NONE schedule the reconfiguration to SEG-		QASISTATES COS FUV HVLOW HVL OW SS induced gaps.	[==>]	
Target has been of Set buffer time = 6 Continue use of 1 10 Comments: Work-11 G140L/800/FUVA	observed before no necessprime - 100 = 300 FP-POS DARK -around to efficiently (1) WD0308-565	ed to 2/3 factor S/C, DATA, NONE	G140L	QASISTATES COS FUV HVLOW HVL OW	[==>] 363 Secs (363 Secs)	
Target has been of Set buffer time = 6 Continue use of 1 10 Comments: Work-11 G140L/800/FUVA	observed before no necessprime - 100 = 300 FP-POS DARK -around to efficiently (1) WD0308-565	ed to 2/3 factor S/C, DATA, NONE schedule the reconfiguration to SEG-		QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26	[==>]	
Carget has been of Set buffer time = 6 Continue use of 1 10 Comments: Work-11 G140L/800/	observed before no necessprime - 100 = 300 FP-POS DARK -around to efficiently (1) WD0308-565	ed to 2/3 factor S/C, DATA, NONE schedule the reconfiguration to SEG-	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3;	[==>] 363 Secs (363 Secs)	
Target has been of Set buffer time = 6 Continue use of 1 10 Comments: Work-11 G140L/800/FUVA	observed before no necessprime - 100 = 300 FP-POS DARK -around to efficiently (1) WD0308-565	ed to 2/3 factor S/C, DATA, NONE schedule the reconfiguration to SEG-	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Comments: Work- 11 G140L/800/ FUVA (COS.sp.136 2815)	observed before no necestrime - 100 = 300 FP-POS DARK -around to efficiently (1) WD0308-565	s/C, DATA, NONE S/C, DATA, NONE schedule the reconfiguration to SEG- COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A;	[==>] 363 Secs (363 Secs)	
Comments: Work- 11 G140L/800/ FUVA (COS.sp.130 2815) Comments: ETC Larget has been of	bserved before no necesptime - 100 = 300 FP-POS DARK -around to efficiently (1) WD0308-565 Duffer time is 362, largebserved before no necesptime - 100 =	schedule the reconfiguration to SEG-COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Comments: Work- GCOS.sp.136 COmments: ETC l Comments: ETC l Comments: ETC l Comments: been of	bserved before no nee exptime - 100 = 300 FP-POS DARK -around to efficiently (1) WD0308-565 buffer time is 362, largebserved before no nee exptime - 100 = 263	schedule the reconfiguration to SEG-COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Comments: Work- 11 G140L/800/ FUVA (COS.sp.130 2815) Comments: ETC Larget has been of	bserved before no nee exptime - 100 = 300 FP-POS DARK -around to efficiently (1) WD0308-565 buffer time is 362, largebserved before no nee exptime - 100 = 263	schedule the reconfiguration to SEG-COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Comments: Work- GCOS.sp.136 COmments: ETC l Comments: ETC l Comments: ETC l Comments: been of	bserved before no nee exptime - 100 = 300 FP-POS DARK -around to efficiently (1) WD0308-565 buffer time is 362, largebserved before no nee exptime - 100 = 263	schedule the reconfiguration to SEG-COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Comments: Work- GCOS.sp.136 COmments: ETC l Grayet has been of Set buffer time = 6 Continue use of 1 Comments: Work- L1 G140L/800/ FUVA (COS.sp.136 2815)	bserved before no nee exptime - 100 = 300 FP-POS DARK -around to efficiently (1) WD0308-565 buffer time is 362, largebserved before no nee exptime - 100 = 263	schedule the reconfiguration to SEG-COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Comments: Work- GCOS.sp.136 COmments: ETC l Grayet has been of Set buffer time = 6 Continue use of 1 Comments: Work- L1 G140L/800/ FUVA (COS.sp.136 2815)	bserved before no nee exptime - 100 = 300 FP-POS DARK -around to efficiently (1) WD0308-565 buffer time is 362, largebserved before no nee exptime - 100 = 263	schedule the reconfiguration to SEG-COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Comments: Work- GCOS.sp.136 COmments: ETC l Grayet has been of Set buffer time = 6 Continue use of 1 Comments: Work- L1 G140L/800/ FUVA (COS.sp.136 2815)	bserved before no nee exptime - 100 = 300 FP-POS DARK -around to efficiently (1) WD0308-565 buffer time is 362, largebserved before no nee exptime - 100 = 263	schedule the reconfiguration to SEG-COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	

Proposal 15773 - WD0308-FEB (53) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

/I (0	G140L/1105 (1) WD0308-565 FUVA COS.sp.102 1720)	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	327 Secs (327 Secs) [==>] [32]
	ents: ETC buffer time is 362, larg				
Set buf Contin	t has been observed before no need ffer time = exptime - 100 = 180 tue use of 1 FP-POS		G12014		270 g (270 g)
Set buf Contin	ffer time = $exptime - 100 = 180$	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3;	278 Secs (278 Secs) [==>]





Fri Aug 14 17:01:02 GMT 2020 Proposal 15773, GD71-FEB (04), failed

Diagnostic Status: No Diagnostics

Scientific Instruments: S/C, COS/FUV, COS/NUV

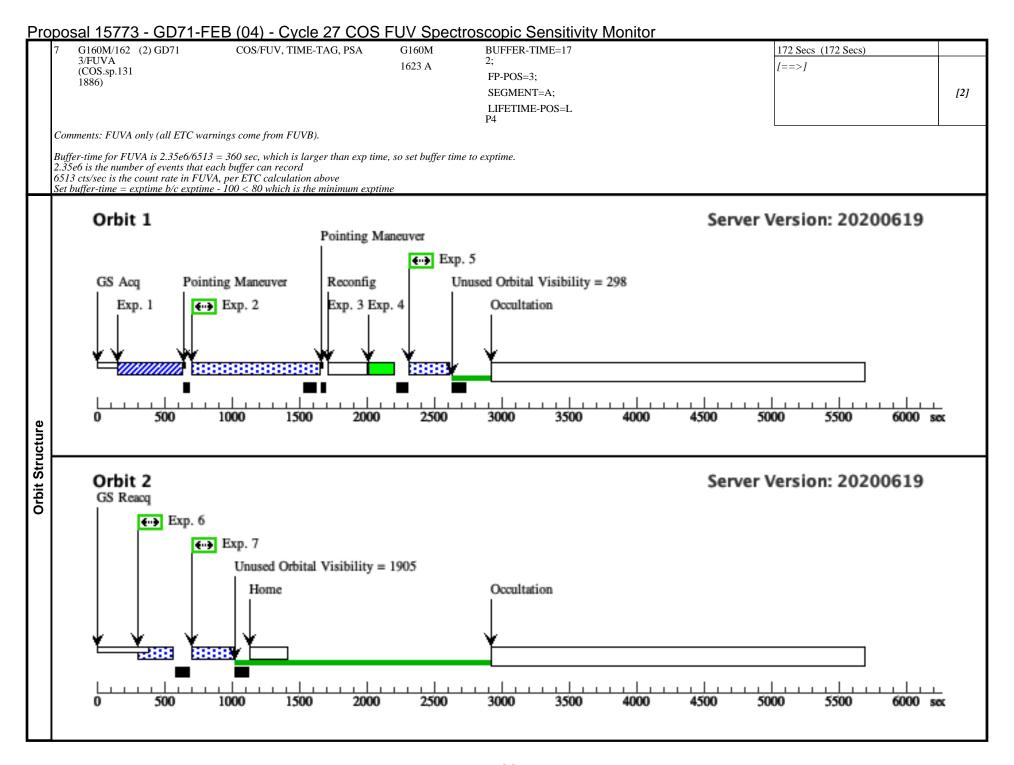
Special Requirements: SCHED 100%; BETWEEN 18-FEB-2020:00:00:00 AND 27-FEB-2020:00:00:00

Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation
George Chapman added Exposure 3
Optimized the exposure time for the G130M/1096 setting to increase its SNR (exp time = 744 s) while remaining within the allocated time.

	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
gets	(2)	GD71	RA: 05 52 27.6100 (88.1150417d)	Proper Motion RA: 85 mas/yr	V=13.06+/-0.01	Reference Frame: ICRS
Įğ			Dec: +15 53 13.80 (15.88717d)	Proper Motion Dec: -174 mas/yr		
<u>a</u> l			Equinox: J2000	Epoch of Position: 2000		
×i	Comments. Carried ov Category= Description Extended=	er from Cycle 25 proposal. STAR n=[DA]	1 as in proposal 12392 by Bohlin et al.			

Proposal 15773 - GD71-FEB (04) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.839	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs)	
	(COS.ta.839 574)							[==>]	[1]
Co	omments: Exptim	e for S/N of 60	is 105.5 sec, using 90 sec leads to S/N of 55	•					
2	G130M/109 6/FUVB/LP	(2) GD71	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=64 4;			744 Secs (744 Secs)	
	2			1096 A	FP-POS=3;			[==>]	
	(COS.sp.839 576)				SEGMENT=B;				[1]
	,				LIFETIME-POS=L				
			warnings come from FUVA).		P2				
3	t buffer-time = e.	xptime - 100 se DARK	ec = 644 to maximize time on target. S/C, DATA, NONE			QASISTATES CO	<u> </u>	1 Secs (1 Secs)	
						FUV HVLOW HVI OW	L	[==>]	[1]
Co	omments: Work-a	around to effici	iently schedule the SEG-B to SEG-A reconfig	uration. Eliminate	s SPSS induced gaps.				-
4	G130M/109	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;			140 Secs (140 Secs)	
	6/FUVA W AVECAL/L			1096 A	SEGMENT=A;			[==>]	
	P2				FLASH=NO;				[1]
					LIFETIME-POS=L P2				
2 5	G160M/153	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=10			103 Secs (103 Secs)	
5	3/FUVA (COS.sp.131			1533 A	3;			[==>]	
3	1884)				FP-POS=3; SEGMENT=A;				[1]
					LIFETIME-POS=L				[1]
					P4				
			warnings come from FUVB).						
65	13 cts/sec is the	count rate in F	5513 = 360 sec, which is larger than exp time at each buffer can record FUVA, per ETC calculation above time - 100 < 80 which is the minimum exptin		to exptime.				
6	G160M/157		COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=13			132 Secs (132 Secs)	
	7/FUVA (COS.sp.131			1577 A	2;			[==>]	
	1885)				FP-POS=3; SEGMENT=A;				[2]
					LIFETIME-POS=L				[2]
Co	omments: FUVA	only (all ETC	warnings come from FUVB).		P4				
Ru	ıffer-time for FII	VA is 2 3506/6	5513 = 360 sec, which is larger than exp time	so set huffer time	to exntime				
2.3 65	35e6 is the numb 13 cts/sec is the	er of events the count rate in F	515 – 300 set, which is larger than exp lime at each buffer can record TUVA, per ETC calculation above time - 100 < 80 which is the minimum exptin		ю схрите.				
		и оле слр	200 Coo miles is the millionian explin						



Proposal 15773 - GD71-FEB (54) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

Proposal 15773, GD71-FEB (54), completed Fri Aug 14 17:01:02 GMT 2020

Diagnostic Status: No Diagnostics

Scientific Instruments: S/C, COS/FUV, COS/NUV

Special Requirements: SCHED 100%

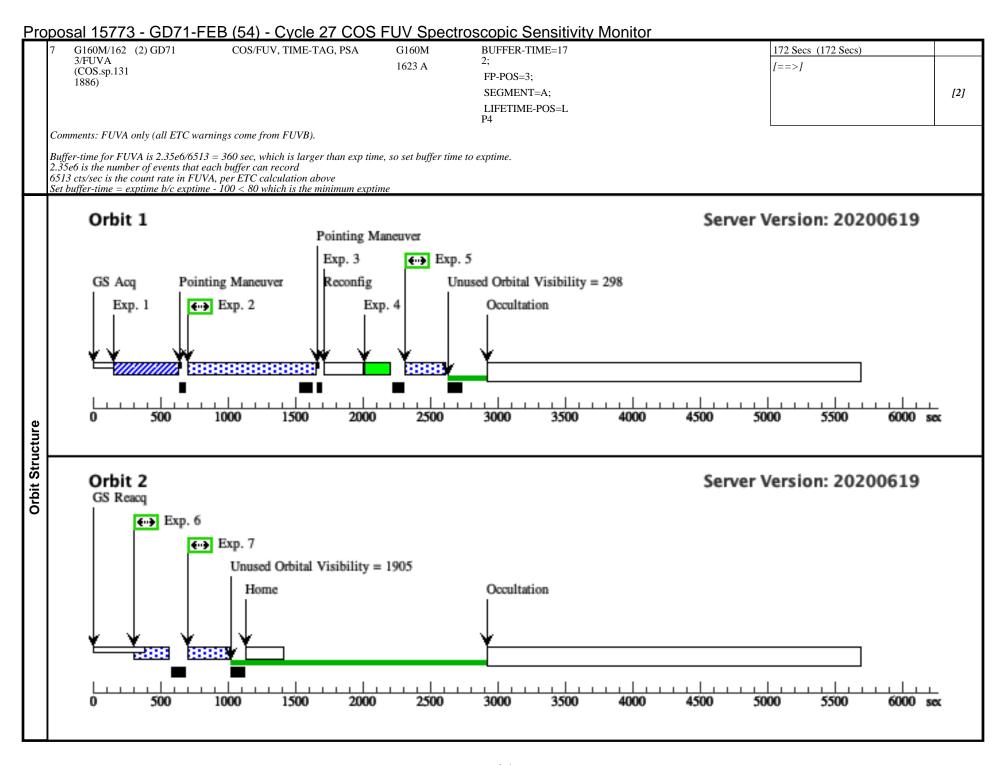
Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation George Chapman added Exposure 3

Optimized the exposure time for the G130M/1096 setting to increase its SNR (exp time = 744 s) while remaining within the allocated time.

	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
ets	(2)	GD71	RA: 05 52 27.6100 (88.1150417d)	Proper Motion RA: 85 mas/yr	V=13.06+/-0.01	Reference Frame: ICRS
ğ			Dec: +15 53 13.80 (15.88717d)	Proper Motion Dec: -174 mas/yr		
<u>a</u> [Equinox: J2000	Epoch of Position: 2000		
		ver from Cycle 25 proposal. STAR n=[DA]	M as in proposal 12392 by Bohlin et al.			

Proposal 15773 - GD71-FEB (54) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs)	
	(COS.ta.839 574)							[==>]	[1]
Com	ments: Exptim	e for S/N of 60 i	is 105.5 sec, using 90 sec leads to S/N of 55	5.					
2	G130M/109	(2) GD71	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=64			744 Secs (744 Secs)	
	6/FUVB/LP 2			1096 A	4; FP-POS=3;			[==>]	
	(COS.sp.839 576)				SEGMENT=B:				[1]
	370)				LIFETIME-POS=L				[1]
					P2				
Com Set l	nments: FUVB buffer-time = e	only (all ETC w	varnings come from FUVA). $c = 644$ to maximize time on target.						
3	rujjer time – c	DARK	S/C, DATA, NONE			QASISTATES CO	S	1 Secs (1 Secs)	
						FUV HVLOW HV OW		[==>]	[1]
Con	ments: Work-a	around to efficie	ntly schedule the SEG-B to SEG-A reconfig	puration Fliminate	s SPSS induced gans	OW			2-3
4	G130M/109		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;			140 Secs (140 Secs)	
	6/FUVA W		2,	1096 A	SEGMENT=A;			[==>1	
	AVECAL/L P2				FLASH=NO;				[1]
					LIFETIME-POS=L				[1]
_	C1 (0) 1/152	(A) CD71	COSTELLY TRACE TACK DOA	C160M	P2			102.5 (102.5)	+
5	G160M/153 3/FUVA	(2) GD/1	COS/FUV, TIME-TAG, PSA	FUV, TIME-TAG, PSA G160M BUFFER-TIME=10 1533 A 3;		103 Secs (103 Secs)			
	(COS.sp.131 1884)			1355 A	FP-POS=3;			[==>]	
	1004)			SEGMENT=A;				[1]	
					LIFETIME-POS=L				
Com	monta EIWA	only (all ETC w	varnings come from FUVB).		P4				1
		•							
Buff 2.35	er-time for FU e6 is the numb	VA is 2.35e6/65 er of events that	i 13 = 360 sec, which is larger than exp time t each buffer can record	e, so set buffer time	to exptime.				
6513	3 cts/sec is the	count rate in FU	UVA, per ETC calculation above ime - 100 < 80 which is the minimum exptin						
5ei t	G160M/157		COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=13			132 Secs (132 Secs)	
	7/FUVA	(2) 00/1	COS/10 V, TRVIL 1710, 15/1	1577 A	2;			[==>]	
	(COS.sp.131 1885)			10,7,11	FP-POS=3;				
	,				SEGMENT=A;				[2]
					LIFETIME-POS=L P4				
Con	ments: FIWA	only (all FTC w	varnings come from FUVB).		17			L	1
		•		1 60					
2.35	er-time for FU e6 is the numb	VA is 2.35e6/65 er of events that	i 13 = 360 sec, which is larger than exp time t each buffer can record	e, so set buffer time	to exptime.				
6513	3 cts/sec is the	count rate in FU	UVA, per ETC calculation above ime - 100 < 80 which is the minimum exptin						
Sei t	oujjer-ume = e	хрите в/с ехри	me - 100 < 80 wnich is the minimum explin	ne					



Proposal 15773 - WD0308-APR (05) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

	Proposal 15773, WD0308-APR (TO V Spootrooppie Seriekivity IV		Fri Aug 14 17:01:02 GMT 2020		
.=.	Diagnostic Status: No Diagnostic	es					
/is	Scientific Instruments: S/C, COS/F						
_	Special Requirements: SCHED 100%; BETWEEN 10-APR-2020:00:00 AND 23-APR-2020:00:00						
	Comments: All G160M observation	ns are with $SEGMENT = B$ (i.e. segment A is tur	rned off).				
၂ တ	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous		
e l	(1) WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 0.018141 sec of time/yr	V=14.07+/-0.02	Reference Frame: ICRS		
arg		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 0.0643 arcsec/yr				
⊨		Equinox: J2000	Epoch of Position: 2000				
eq	Comments: Coordinates carried or	ver from Cycle 25 proposal					
lĕ	Category=STAR Description=[DB]						
ت	Extended=NO						

Proposal 15773 - WD0308-APR (05) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbi
1	ACQ/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
	(839564)							[==>]	[1]
Cor	nments: cycle 2	4 comment: exposure	e times not reduced following updated		**	affect orbit requeste	d.		
2	G130M/105 5/LP2	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=26 3;			363 Secs (363 Secs)	
	(COS.sp.130			1055 A	FP-POS=3;			[==>]	
	2752)				SEGMENT=BOTH	•			[1]
					LIFETIME-POS=L	,			[1]
Con	nments: ETC bi	uffer time is larger th	an exptime (1482)		P2				
Set	get has been ob buffer time = e: ıtinue use of 1 1	served before no nee xptime - 100 FP-POS	ed to 2/3 factor						
3	G130M/122	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=15			254 Secs (254 Secs)	
	2 (COS.sp.130			1222 A	4;			I = = > J	
	2754)				FP-POS=3;				
					LIFETIME-POS=L P4;				[1]
					SEGMENT=BOTH				
Con	nments: ETC bi	uffer time is 395 sec.	Target has been observed before and	so no need for 2/3 s	safety margin.				
Sino Cor	tinue use of 1 I	FP-POS	se buffer time = exptime -100 sec to m	aximize time on tar	get = 126				
4	G130M/129	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=13 3;			233 Secs (233 Secs)	
	(COS.sp.131			1291 A	FP-POS=3;			[==>]	
	1908)				LIFETIME-POS=L				[1]
					P4;				1-1
					SEGMENT=BOTH				
Sino	nments: ETC bi ce buffer time la itinue use of 1 l	arger than exptime us	Target has been observed before and se buffer time = exptime -100 sec to m	so no need for 2/3 s aximize time on tar	safety margin. get = 144				
5	G140L/1280	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=22			328 Secs (328 Secs)	
	(COS.sp.102 1719)			1280 A	8;			[==>]	
	1/17)				FP-POS=3;				
					LIFETIME-POS=L P4;				[1]
					SEGMENT=BOTH				
Con	get has been ob	uffer time is 451, larg sserved before no nee xptime - 100 = 180	ger than exptime ed to 2/3 factor		2-2				1
Set	vajjer ume – e. viinue use of 1 l	FP-POS							
Set		DARK	S/C, DATA, NONE			QASISTATES CO		1 Secs (1 Secs)	
Set						FUV HVLOW HV	L		
Set Cor						OW		[==>]	[1]

G1001V1/133 (1)) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	222 Secs (222 Secs)	
3/B			1533 A	BUFFER-TIME=12	[==>]	
(COS.sp.131 1897)				2;		
				LIFETIME-POS=L P4;		Į.
				SEGMENT=B		
Comments: ETC buffer Farget has been obser Set buffer time = expti	ved before no nee	ger than exptime d to 2/3 factor				,
Continue use of 1 FP-1	POS					
8 G160M/157 (1) WD0308-565 7/B (COS.sp.131 1899)	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	273 Secs (273 Secs)		
			1577 A	BUFFER-TIME=17	[==>]	
				3;		
				LIFETIME-POS=L P4;		
				SEGMENT=B		
Comments: ETC buffer	r time is 599, larg	ger than exptime				I
Farget has been obser Set buffer time = expti	ved before no nee	d to 2/3 factor				
Continue use of 1 FP-1						
G160M/162 (1) 3/B) WD0308-565	00308-565 COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	369 Secs (369 Secs)	
(COS.sp.131 1901)			1623 A	BUFFER-TIME=26 9;	[==>]	
				LIFETIME-POS=L		
				P4;		'
				SEGMENT=B		
Comments: ETC buffe Target has been obser Set buffer time = expti Continue use of 1 FP-1	r time is 799, larg wed before no nee ime - 100 = 300 POS	ger than exptime d to 2/3 factor		SEGMENT=B		
Target has been obser Set buffer time = expti Continue use of 1 FP-1	r time is 799, larg ved before no nee me - 100 = 300 POS ARK	eer than exptime d to 2/3 factor S/C, DATA, NONE		QASISTATES COS	1 Secs (1 Secs)	
Target has been obser Set buffer time = expti Continue use of 1 FP-1	ved before no nee me - 100 = 300 POS	d to 2/3 factor		QASISTATES COS FUV HVLOW HVL	1 Secs (1 Secs) [==>]	
Farget has been obser Set buffer time = expti. Continue use of 1 FP-1 0 DA	ved before no nee me - 100 = 300 POS ARK	d to 2/3 factor S/C, DATA, NONE	A Fliminates SPS	QASISTATES COS FUV HVLOW HVL OW		
Farget has been obser For buffer time = expti. Continue use of 1 FP-1 Delle Comments: Work-arou	ved before no nee me - 100 = 300 POS ARK und to efficiently s	d to 2/3 factor S/C, DATA, NONE schedule the reconfiguration to SEG-		QASISTATES COS FUV HVLOW HVL OW SS induced gaps.	[==>]	
Farget has been observer to buffer time = expti. Continue use of 1 FP-1 Comments: Work-arou 11 G140L/800/ (1) FUVA	ved before no nee me - 100 = 300 POS ARK und to efficiently s	d to 2/3 factor S/C, DATA, NONE	A. Eliminates SPS G140L 800 A	QASISTATES COS FUV HVLOW HVL OW	[==>] 363 Secs (363 Secs)	
Farget has been observer to buffer time = expti. Continue use of 1 FP-1 Comments: Work-arou 11 G140L/800/ (1) FUVA	ved before no nee me - 100 = 300 POS ARK und to efficiently s	d to 2/3 factor S/C, DATA, NONE schedule the reconfiguration to SEG-	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26	[==>]	
Farget has been obser For buffer time = expti. Continue use of 1 FP-1 Delle Comments: Work-arou G140L/800/ (1)	ved before no nee me - 100 = 300 POS ARK und to efficiently s	d to 2/3 factor S/C, DATA, NONE schedule the reconfiguration to SEG-	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3;	[==>] 363 Secs (363 Secs)	
Farget has been observer to buffer time = expti. Continue use of 1 FP-1 Comments: Work-arou 11 G140L/800/ (1) FUVA	ved before no nee me - 100 = 300 POS ARK und to efficiently s	d to 2/3 factor S/C, DATA, NONE schedule the reconfiguration to SEG-	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Farget has been observer to buffer time = expti. Continue use of 1 FP-1 Comments: Work-arou G140L/800/ (1) FUVA (COS.sp.130 2815)	wed before no nee me - 100 = 300 POS ARK und to efficiently s) WD0308-565	schedule the reconfiguration to SEG-COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A;	[==>] 363 Secs (363 Secs)	
Farget has been obser For buffer time = expti. Continue use of 1 FP-1 Comments: Work-arou. Gl40L/800/ (1) FUVA (COS.sp.130 2815) Comments: ETC buffer Farget has been obser	wed before no nee me - 100 = 300 POS ARK and to efficiently s) WD0308-565 r time is 362, larg wed before no nee	schedule the reconfiguration to SEG-COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Farget has been observer to buffer time = expti. Continue use of 1 FP-1 Comments: Work-arou. Gl40L/800/ (1) FUVA (COS.sp.130 2815) Comments: ETC buffer. Farget has been observer to buffer time = expti.	ved before no nee me - 100 = 300 POS ARK und to efficiently s) WD0308-565 r time is 362, larg ved before no nee me - 100 = 263	schedule the reconfiguration to SEG-COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Farget has been obser For buffer time = expti. Continue use of 1 FP-1 Comments: Work-arou. Gl40L/800/ (1) FUVA (COS.sp.130 2815) Comments: ETC buffer Farget has been obser	ved before no nee me - 100 = 300 POS ARK und to efficiently s) WD0308-565 r time is 362, larg ved before no nee me - 100 = 263	schedule the reconfiguration to SEG-COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Farget has been observer to buffer time = expti. Continue use of 1 FP-1 Comments: Work-arou. Gl40L/800/ (1) FUVA (COS.sp.130 2815) Comments: ETC buffer. Farget has been observer to buffer time = expti.	ved before no nee me - 100 = 300 POS ARK und to efficiently s) WD0308-565 r time is 362, larg ved before no nee me - 100 = 263	schedule the reconfiguration to SEG-COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Farget has been observer to buffer time = expti. Continue use of 1 FP-1 Comments: Work-arou. Gl40L/800/ (1) FUVA (COS.sp.130 2815) Comments: ETC buffer. Farget has been observer to buffer time = expti.	ved before no nee me - 100 = 300 POS ARK und to efficiently s) WD0308-565 r time is 362, larg ved before no nee me - 100 = 263	schedule the reconfiguration to SEG-COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Farget has been observer to buffer time = expti. Continue use of 1 FP-1 Comments: Work-arou. Gl40L/800/ (1) FUVA (COS.sp.130 2815) Comments: ETC buffer. Farget has been observer to buffer time = expti.	ved before no nee me - 100 = 300 POS ARK und to efficiently s) WD0308-565 r time is 362, larg ved before no nee me - 100 = 263	schedule the reconfiguration to SEG-COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Farget has been observer to buffer time = expti. Continue use of 1 FP-1 Comments: Work-arou. Gl40L/800/ (1) FUVA (COS.sp.130 2815) Comments: ETC buffer. Farget has been observer to buffer time = expti.	ved before no nee me - 100 = 300 POS ARK und to efficiently s) WD0308-565 r time is 362, larg ved before no nee me - 100 = 263	schedule the reconfiguration to SEG-COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	

Proposal 15773 - WD0308-APR (05) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor G140L/1105 (1) WD0308-565 /FUVA (COS.sp.102 1720) BUFFER-TIME=22 COS/FUV, TIME-TAG, PSA G140L 327 Secs (327 Secs) 7; 1105 A [==>] FP-POS=3; SEGMENT=A; [3] LIFETIME-POS=L Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS 13 G130M/132 (1) WD0308-565

8;

BUFFER-TIME=17

FP-POS=3; LIFETIME-POS=L 278 Secs (278 Secs)

[3]

[==>]

P4; SEGMENT=A Comments: ETC buffer time is 320 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 212

G130M

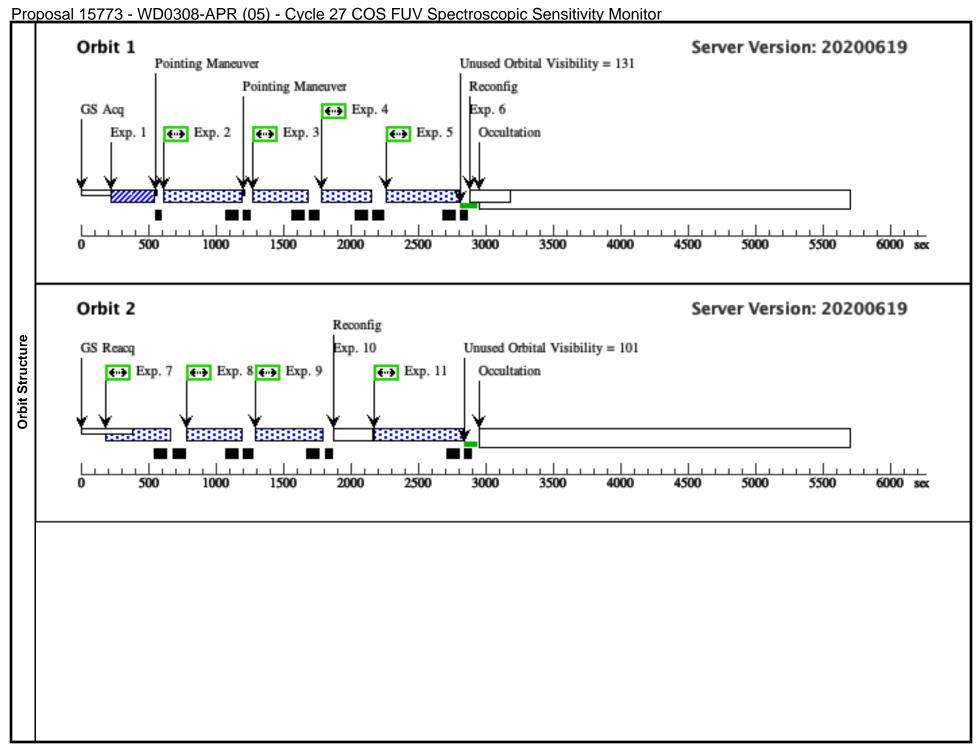
1327 A

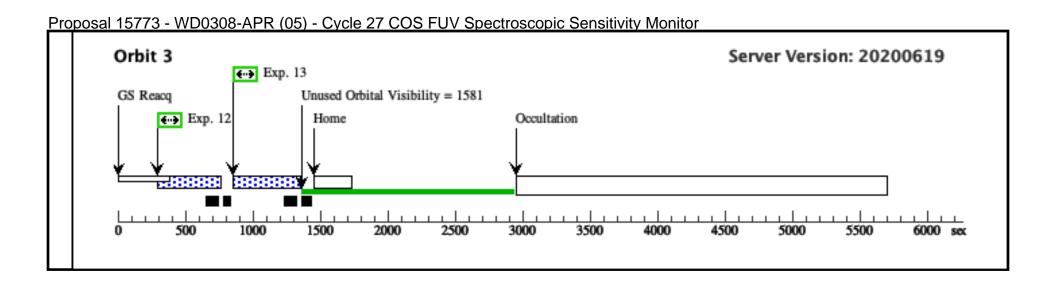
COS/FUV, TIME-TAG, PSA

7/FUVA

(COS.sp.102 1693)

Continue use of 1 FP-POS





Fri Aug 14 17:01:02 GMT 2020 Proposal 15773, GD71-APR (06), completed

Diagnostic Status: No Diagnostics

Scientific Instruments: S/C, COS/FUV, COS/NUV

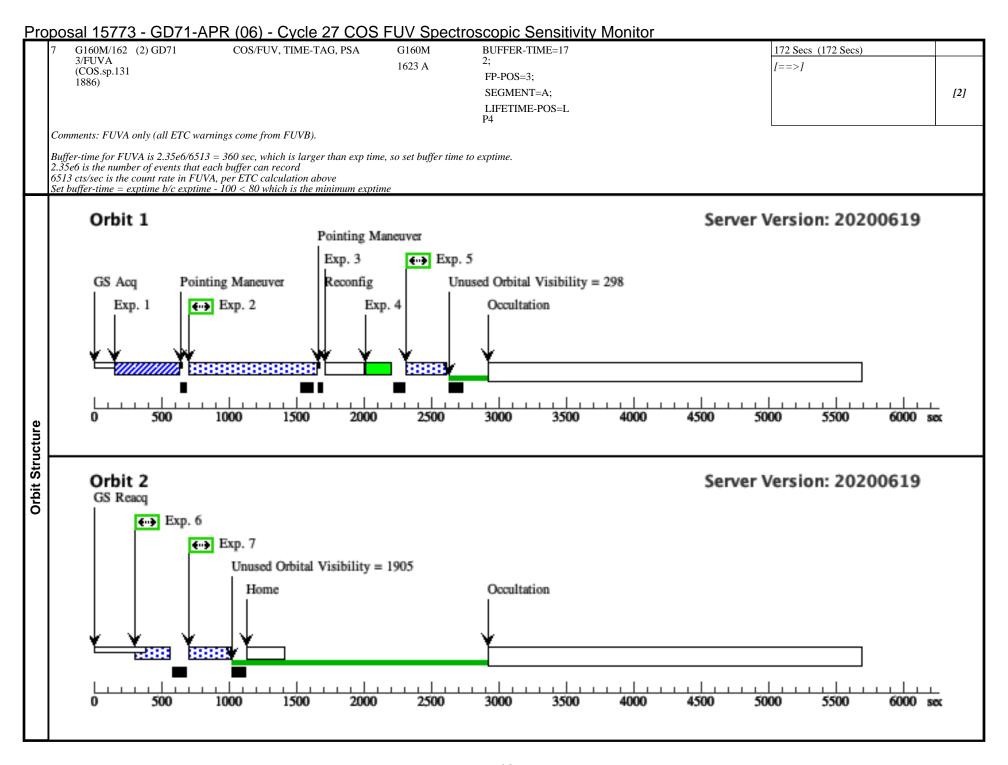
Special Requirements: SCHED 100%; BETWEEN 10-APR-2020:00:00:00 AND 23-APR-2020:00:00:00

Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation
George Chapman added Exposure 3
Optimized the exposure time for the G130M/1096 setting to increase its SNR (exp time = 744 s) while remaining within the allocated time.

	Оринидеи	i ine exposure time j	of the 0130M/1090 setting to increase its SIVIN (exp	time = 7 11 b) white remaining within the attocar	ea iiiie.		
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	
gets	(2)	GD71	RA: 05 52 27.6100 (88.1150417d)	Proper Motion RA: 85 mas/yr	V=13.06+/-0.01	Reference Frame: ICRS	
۱ğ			Dec: +15 53 13.80 (15.88717d)	Proper Motion Dec: -174 mas/yr			
⊒ I			Equinox: J2000	Epoch of Position: 2000			
xed	Carried o	ver from Cycle 25 p	C amd PM as in proposal 12392 by Bohlin et al. roposal.				
Ē	Category: Description						

Proposal 15773 - GD71-APR (06) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs)	
	(COS.ta.839 574)							[==>]	[1]
Co	omments: Exptim	e for S/N of 60 is	105.5 sec, using 90 sec leads to S/N of 55						
2	G130M/109 6/FUVB/LP	(2) GD71	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=64 4;			744 Secs (744 Secs)	
	2			1096 A	FP-POS=3;			I==>J	
	(COS.sp.839 576)				SEGMENT=B;				[1]
					LIFETIME-POS=L				
Co	mm anta: EIIVD	only (all ETC war	nings come from FUVA).		P2				
Sei	t buffer-time = e	xptime - 100 sec =	644 to maximize time on target.						
3		DARK	S/C, DATA, NONE			QASISTATES CO FUV HVLOW HV		1 Secs (1 Secs)	
						OW OW	L	[==>]	[1]
Co	omments: Work-a	around to efficienti	ly schedule the SEG-B to SEG-A reconfig	uration. Eliminate:	s SPSS induced gaps.				
4	G130M/109 6/FUVA W	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;			140 Secs (140 Secs)	
	AVECAL/L			1096 A	SEGMENT=A;			[==>]	
	P2				FLASH=NO; LIFETIME-POS=L				[1]
					P2				
g 5	G160M/153	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=10			103 Secs (103 Secs)	
	3/FUVA (COS.sp.131 1884)			1533 A	3; FP-POS=3;			[==>]	
ő	1884)				SEGMENT=A:				[1]
<u> </u>				LIFETIME-POS=					
					P4				
			nings come from FUVB).						
2.3	35e6 is the numb	er of events that ed	S = 360 sec, which is larger than exp time ach buffer can record	, so set buffer time	to exptime.				
65 Sei	13 cts/sec is the t buffer-time = e	count rate in FUV xptime b/c exptime	A, per ETC calculation above e - 100 < 80 which is the minimum exptin	ie					
6	G160M/157		COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=13			132 Secs (132 Secs)	
	7/FUVA (COS.sp.131		22.1	1577 A	2;			[==>]	
	1885)				FP-POS=3; SEGMENT=A;				[2]
					LIFETIME-POS=L				[2]
Co	omments: FI/VA	only (all ETC war	nings come from FUVB).		P4				
			0 ,	as ast buffer times	40. augstina				
2.3 65	35e6 is the numb 13 cts/sec is the	er of events that ed count rate in FUV	8 = 360 sec, which is larger than exp time ach buffer can record 1A, per ETC calculation above 12 - 100 < 80 which is the minimum exptin		ю ехрите.				
	55	1 · · · · · · · · · · · · · · · · · · ·							



Proposal 15773 - WD0308-JUN (07) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

Proposal 15773, WD0308-JUN (07), failed Fri Aug 14 17:01:02 GMT 2020

Diagnostic Status: No Diagnostics

Scientific Instruments: S/C, COS/FUV, COS/NUV

Special Requirements: SCHED 100%; BETWEEN 05-JUN-2020:00:00:00 AND 18-JUN-2020:00:00:00

Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off) for all other WD0308-565 visits. However, for the June visit, since GD71 is not available, we use SEGMENT = BOTH to keep track of the segment A response.

S	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 0.018141 sec of time/yr	V=14.07+/-0.02	Reference Frame: ICRS
			Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 0.0643 arcsec/yr		
] <u>°</u>			Equinox: J2000	Epoch of Position: 2000		
ed		ments: Coordinates carried ov	ver from Cycle 25 proposal			
		egory=STAR eription=[DB]				
		nded=NO				

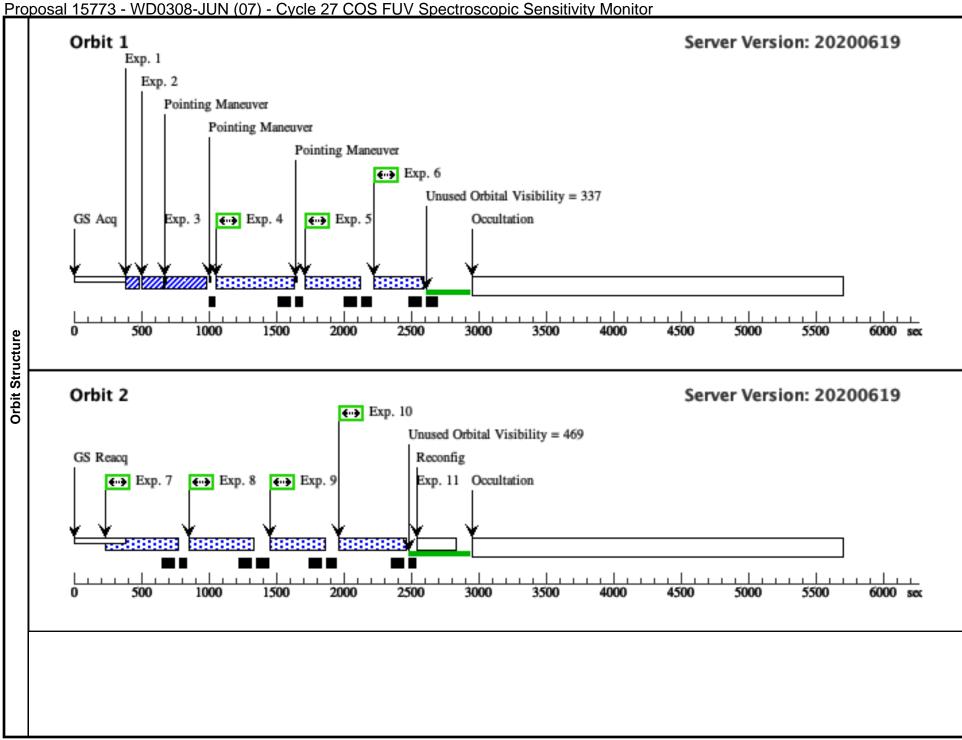
Proposal 15773 - WD0308-JUN (07) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

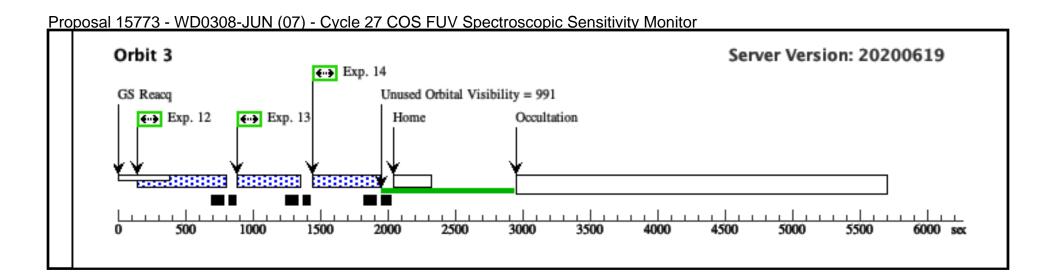
/PEAKXD COS.sa.144 089) (ybrid-AC y/PEAKD COS.sa.144 089) CQ/IM 4339564)	(1) WD0308-565 (1) WD0308-565 (1) WD0308-565 (1) WD0308-565 (1) WD0308-565	COS/FUV, ACQ/PEAKXD, PSA COS/FUV, ACQ/PEAKD, PSA COS/NUV, ACQ/IMAGE, BOA e times not reduced following updated according to the control of	G130M 1291 A G130M 1291 A MIRRORA ETC calculations, G130M 1055 A	NUM-POS=3; STEP-SIZE=1.3; CENTER=FLUX-W T; LIFETIME-POS=L P4 NUM-POS=5; STEP-SIZE=0.9; CENTER=FLUX-W T-FLR; LIFETIME-POS=L P4 differences not enough to BUFFER-TIME=26 3; FP-POS=3;	,	ed.	1 Secs (1 Secs) $I = > J$ 1 Secs (1 Secs) $I = > J$ 45 Secs (45 Secs) $I = > J$ 363 Secs (363 Secs)	[1]
COS.sa.144 (089) (ybrid-AC (yPEAKD COS.sa.144 (089) (CQ/IM (339564) (ents: cycle 24 (130M/105 (LP2 COS.sp.130	(1) WD0308-565 t comment: exposure	COS/NUV, ACQ/IMAGE, BOA e times not reduced following updated	G130M 1291 A MIRRORA ETC calculations, G130M	CENTER=FLUX-W T; LIFETIME-POS=L P4 NUM-POS=5; STEP-SIZE=0.9; CENTER=FLUX-W T-FLR; LIFETIME-POS=L P4 differences not enough to BUFFER-TIME=26 3;	,	ed.	1 Secs (1 Secs) $I = > J$ 45 Secs (45 Secs) $I = > J$ 363 Secs (363 Secs)	[1]
(ybrid-AC //PEAKD COS.sa.144 089) CQ/IM 839564) ents: cycle 24 (130M/105 /LP2 COS.sp.130	(1) WD0308-565 t comment: exposure	COS/NUV, ACQ/IMAGE, BOA e times not reduced following updated	MIRRORA ETC calculations, G130M	T; LIFETIME-POS=L P4 NUM-POS=5; STEP-SIZE=0.9; CENTER=FLUX-W T-FLR; LIFETIME-POS=L P4 differences not enough to BUFFER-TIME=26 3;	,	ed.	[==>] 45 Secs (45 Secs) [==>] 363 Secs (363 Secs)	[1]
/PEAKD COS.sa.144 089) .CQ/IM 839564) ents: cycle 24 2130M/105 /LP2 COS.sp.130	(1) WD0308-565 t comment: exposure	COS/NUV, ACQ/IMAGE, BOA e times not reduced following updated	MIRRORA ETC calculations, G130M	LIFETIME-POS=L P4 NUM-POS=5; STEP-SIZE=0.9; CENTER=FLUX-W T-FLR; LIFETIME-POS=L P4 differences not enough to BUFFER-TIME=26 3;		ed.	[==>] 45 Secs (45 Secs) [==>] 363 Secs (363 Secs)	[1]
/PEAKD COS.sa.144 089) .CQ/IM 839564) ents: cycle 24 2130M/105 /LP2 COS.sp.130	(1) WD0308-565 t comment: exposure	COS/NUV, ACQ/IMAGE, BOA e times not reduced following updated	MIRRORA ETC calculations, G130M	P4 NUM-POS=5; STEP-SIZE=0.9; CENTER=FLUX-W T-FLR; LIFETIME-POS=L P4 differences not enough to BUFFER-TIME=26 3;		ed.	[==>] 45 Secs (45 Secs) [==>] 363 Secs (363 Secs)	
/PEAKD COS.sa.144 089) .CQ/IM 839564) ents: cycle 24 2130M/105 /LP2 COS.sp.130	(1) WD0308-565 t comment: exposure	COS/NUV, ACQ/IMAGE, BOA e times not reduced following updated	MIRRORA ETC calculations, G130M	STEP-SIZE=0.9; CENTER=FLUX-W T-FLR; LIFETIME-POS=L P4 differences not enough to BUFFER-TIME=26 3;		ed.	[==>] 45 Secs (45 Secs) [==>] 363 Secs (363 Secs)	
CQ/IM 339564) ents: cycle 24 130M/105 /LP2 COS.sp.130	comment: exposure	e times not reduced following updated .	MIRRORA ETC calculations, G130M	CENTER=FLUX-W T-FLR; LIFETIME-POS=L P4 differences not enough to BUFFER-TIME=26 3;		ed.	45 Secs (45 Secs) [==>] 363 Secs (363 Secs)	
CQ/IM 339564) ents: cycle 24 130M/105 /LP2 COS.sp.130	comment: exposure	e times not reduced following updated .	ETC calculations,	T-FLR; LIFETIME-POS=L P4 differences not enough to BUFFER-TIME=26 3;		ed.	[==>] 363 Secs (363 Secs)	
339564) 2008: cycle 24 3130M/105 7LP2 COS.sp.130	comment: exposure	e times not reduced following updated .	ETC calculations,	LIFETIME-POS=L P4 differences not enough to BUFFER-TIME=26 3;	affect orbit request	ed.	[==>] 363 Secs (363 Secs)	
339564) 2008: cycle 24 3130M/105 7LP2 COS.sp.130	comment: exposure	e times not reduced following updated .	ETC calculations,	P4 differences not enough to BUFFER-TIME=26 3;	affect orbit request	ed.	[==>] 363 Secs (363 Secs)	[1]
339564) 2008: cycle 24 3130M/105 7LP2 COS.sp.130	comment: exposure	e times not reduced following updated .	ETC calculations,	BUFFER-TIME=26 3;	affect orbit request	ed.	[==>] 363 Secs (363 Secs)	[1]
ents: cycle 24 130M/105 /LP2 COS.sp.130			G130M	BUFFER-TIME=26 3;	affect orbit request	ed.	363 Secs (363 Secs)	[1]
130M/105 /LP2 COS.sp.130			G130M	BUFFER-TIME=26 3;	affect orbit request	ed.	` '	
/LP2 COS.sp.130	(1) WD0308-565	COS/FUV, TIME-TAG, PSA		3;			` '	
COS.sp.130			1055 A					
752)				FP-POS=3;			[==>]	
				GEGLIENE DOEL				677
				SEGMENT=BOTH:				[1]
				LIFETIME-POS=L P2				
fer time = ex ue use of 1 F	ptime - 100 P-POS		C120M	DIJECED TIME_15			254 Saga (254 Saga)	
130M/122	(1) WD0308-565	COS/FUV, TIME-TAG, PSA		4;			` '	+
COS.sp.130			1222 A	FP-POS=3;			[==>]	
134)				LIFETIME-POS=L				[1]
				*				
ents: ETC buj uffer time lar ue use of 1 F.	ffer time is 395 sec. rger than exptime us P-POS	Target has been observed before and s se buffer time = exptime -100 sec to ma	so no need for 2/3 s aximize time on tar	safety margin. get = 126				
130M/129	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=13			233 Secs (233 Secs)	
COS.sp.131			1291 A				[==>]	
908)				· · · · · · · · · · · · · · · · · · ·				677
								[1]
				<i>'</i>				
uffer time lai	rger than exptime us	Target has been observed before and s se buffer time = exptime -100 sec to ma	so no need for 2/3 s aximize time on tar	safety margin.				
ue use of 1 F.	P-POS							
fe <u>uu</u> 11 C.7:	r time = exe use of 1 F 30M/122 OS.sp.130 ots: ETC but ffer time late use of 1 F 30M/129 OS.sp.131 OS.sp.131	r time = exptime - 100 e use of 1 FP-POS 30M/122 (1) WD0308-565 OS.sp.130 54) ats: ETC buffer time is 395 sec. ffer time larger than exptime use use of 1 FP-POS 30M/129 (1) WD0308-565 OS.sp.131 OS.sp.131	use of 1 FP-POS 30M/122 (1) WD0308-565 COS/FUV, TIME-TAG, PSA OS.sp.130 ats: ETC buffer time is 395 sec. Target has been observed before and iffer time larger than exptime use buffer time = exptime -100 sec to me use of 1 FP-POS 30M/129 (1) WD0308-565 COS/FUV, TIME-TAG, PSA OS.sp.131 ots: ETC buffer time is 322 sec. Target has been observed before and iffer time larger than exptime use buffer time = exptime -100 sec to me	rtime = exptime - 100 e use of 1 FP-POS 30M/122 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M OS.sp.130 ats: ETC buffer time is 395 sec. Target has been observed before and so no need for 2/3 s ffer time larger than exptime use buffer time = exptime -100 sec to maximize time on tar e use of 1 FP-POS 30M/129 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M OS.sp.131 OS.sp.131 ats: ETC buffer time is 322 sec. Target has been observed before and so no need for 2/3 s ffer time larger than exptime use buffer time = exptime -100 sec to maximize time on tar	retime = exptime - 100 e use of 1 FP-POS 30M/122 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M 1222 A OS.sp.130 54) BUFFER-TIME=15 4; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH ats: ETC buffer time is 395 sec. Target has been observed before and so no need for 2/3 safety margin. ffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 126 e use of 1 FP-POS 30M/129 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=13 3; OS.sp.131 OS.sp	re time = exptime - 100 e use of 1 FP-POS 30M/122 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=15 OS.sp.130 FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH ats: ETC buffer time is 395 sec. Target has been observed before and so no need for 2/3 safety margin. ffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 126 e use of 1 FP-POS 30M/129 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=13 3; OS.sp.131 FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH ats: ETC buffer time is 322 sec. Target has been observed before and so no need for 2/3 safety margin. ffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 144	re tine = exprime - 100 e use of 1 FP-POS 30M/122 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=15 OS.sp.130 54) FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH ats: ETC buffer time is 395 sec. Target has been observed before and so no need for 2/3 safety margin. ffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 126 e use of 1 FP-POS 30M/129 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=13 OS.sp.131 OS	re time = exptime - 100 e euse of J FP-POS 30M/122 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=15 OS.sp.130 St4) 1222 A FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH 1330M/129 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=13 30M/129 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=13 30M/129 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=13 OS.sp.131 OS.sp.131 OS.sp.131 OS.sp.141 1291 A FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH 1291 A FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH

/ CITOL/	1280 (1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=22		328 Secs (328 Secs)	
(COS.sp 1719)	p.102		1280 A	8;		[==>]	
1/19)				FP-POS=3;			
				LIFETIME-POS=L P4;			Į.
				· · · · · · · · · · · · · · · · · · ·			
C	TC 1 (C .: 451.1	a .		SEGMENT=BOTH			
Target has be Set buffer tim	TC buffer time is 451, largen observed before no new een observed before no new e = exptime - 100 = 180 of 1 FP-POS	zer tnan exptime 2d to 2/3 factor					
	/153 (1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;		222 Secs (222 Secs)	
3/B (COS.sp 1897)	p.131		1533 A	BUFFER-TIME=12 2;		[==>]	
1097)				LIFETIME-POS=L P4;			1
				SEGMENT=BOTH			
Comments: E Target has be Set buffer tim	TC buffer time is 487, largen observed before no nee e = exptime - 100	zer than exptime 2d to 2/3 factor					
Continue use	of 1 FP-POS						
	/157 (1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;		273 Secs (273 Secs)	
7/B (COS.sr	o.131		1577 A	BUFFER-TIME=17		[==>]	
(COS.sr 1899)				3;			
				LIFETIME-POS=L P4;			1
				SEGMENT=BOTH			
Target has be	TC buffer time is 599, largen observed before no new een observed before no new e = exptime - 100 of 1 FP-POS	ed to 2/3 factor					
	/162 (1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;		369 Secs (369 Secs)	
3/B	121	,	1623 A	BUFFER-TIME=26		f==>1	
(COS.sp 1901)	0.131			9;			
,				LIFETIME-POS=L			1
				P4;			
				SEGMENT=BOTH			
	TC buffer time is 799, largen observed before no nec	zer than exptime 2d to 2/3 factor					
Comments: E Target has be Set buffer tim Continue use	e = exptime - 100 = 300 of 1 FP-POS			OACICE	ATES COS	1 Secs (1 Secs)	
Target has be Set buffer tim	e = exptime - 100 = 300 of 1 FP-POS DARK	S/C, DATA, NONE					
Target has be Set buffer tim Continue use	of 1 FP-POS	S/C, DATA, NONE		FUV HV	LOW HVL	I = => J	1
Target has be Set buffer tim Continue use 11	of 1 FP-POS DARK		A Eliminatos CDG	FUV HV OW	LOW HVL	[==>]	
Target has be Set buffer tim Continue use 11	of 1 FP-POS DARK	S/C, DATA, NONE schedule the reconfiguration to SEG-	A. Eliminates SPS	FUV HV OW	LOW HVL	[==>]	l
Target has be Set buffer tim Continue use 11	of 1 FP-POS DARK		A. Eliminates SPS	FUV HV OW	LOW HVL	[==>]	I
Target has be Set buffer tim Continue use 11	of 1 FP-POS DARK		A. Eliminates SPS	FUV HV OW	LOW HVL	[==>]	L
Target has be Set buffer tim Continue use 11	of 1 FP-POS DARK		A. Eliminates SPS	FUV HV OW	LOW HVL	[==>]	l
Target has be Set buffer tim Continue use 11	of 1 FP-POS DARK		A. Eliminates SPS	FUV HV OW	LOW HVL	[==>]	1

Proposal 15773 - WD0308-JUN (07) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

S/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=26	363 Secs (363 Secs)	
	800 A	3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	[==>]	[3]
a exptime 3 factor				•
S/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	327 Secs (327 Secs) [==>]	[3]
a exptime 3 factor				·
S/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	278 Secs (278 Secs) [==>]	[3]
	exptime 3 factor 8/FUV, TIME-TAG, PSA exptime 3 factor	exptime 3 factor WFUV, TIME-TAG, PSA G140L 1105 A exptime 3 factor GFUV, TIME-TAG, PSA G130M	800 A Septime Septime	800 A FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4 SFUV, TIME-TAG, PSA G140L BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4 SEGMENT=A; LIFETIME-POS=L FP-POS=3; SEGMENT=A; LIFETIME-POS=L SEGMENT=A; L

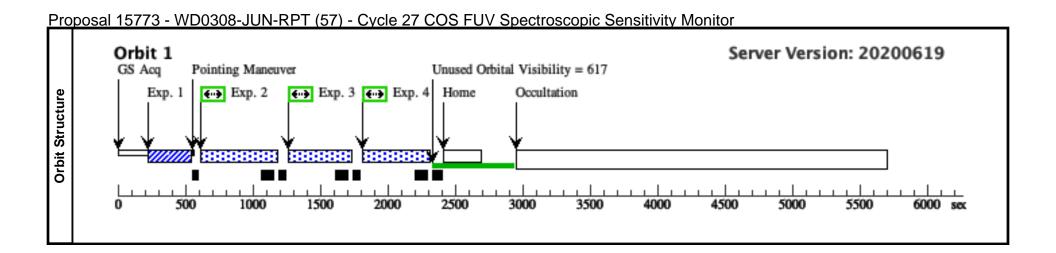




Proposal 15773 - WD0308-JUN-RPT (57) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor Proposal 15773, WD0308-JUN-RPT (57), completed Fri Aug 14 17:01:02 GMT 2020 **Diagnostic Status: No Diagnostics** Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100% Comments: This is a repeat of the last three exposures of the WD0308-565 sequence, which failed in visit 07. The between requirement has been removed, with the understanding that this will be scheduled as soon as possible. (All G160M observations are with SEGMENT = B (i.e. segment A is turned off) for all other WD0308-565 visits. However, for the June visit, since GD71 is not available, we use SEGMENT = BOTH to keep track of the segment A response.) Name **Target Coordinates** Targ. Coord. Corrections Fluxes Miscellaneous Targets (1) WD0308-565 RA: 03 09 47.9200 (47.4496667d) Proper Motion RA: 0.018141 sec of time/yr V=14.07+/-0.02Reference Frame: ICRS Dec: -56 23 49.41 (-56.39706d) Proper Motion Dec: 0.0643 arcsec/yr Equinox: J2000 Epoch of Position: 2000 Comments: Coordinates carried over from Cycle 25 proposal Category=STAR Description=[DB] Extended=NO Label Orbit **Target** Config, Mode, Aperture Spectral Els. Opt. Params. Special Regs. Groups Exp. Time (Total)/[Actual Dur.] (ETC Run) ACO/IM (1) WD0308-565 COS/NUV, ACO/IMAGE, BOA MIRRORA 45 Secs (45 Secs) (839564)[==>][1] Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested. G140L/800/ (1) WD0308-565 COS/FUV, TIME-TAG, PSA G140L BUFFER-TIME=26 363 Secs (363 Secs) FUVA 800 A I = = > 1(COS.sp.130 FP-POS=3; 2815) SEGMENT=A; [1] LIFETIME-POS=L Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 263Continue use of 1 FP-POS Exposure G140L/1105 (1) WD0308-565 COS/FUV. TIME-TAG. PSA G140L BUFFER-TIME=22 327 Secs (327 Secs) /FUVA 1105 A I = = > 1(COS.sp.102 FP-POS=3; 1720) SEGMENT=A; [1] LIFETIME-POS=L P4 Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180Continue use of 1 FP-POS G130M/132 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=17 278 Secs (278 Secs) 7/FUVA 1327 A [==>1 (COS.sp.102 FP-POS=3; 1693) LIFETIME-POS=L [1] P4;

Comments: ETC buffer time is 320 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 212 Continue use of 1 FP-POS

SEGMENT=A



Proposal 15773 - WD0308-AUG (08) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

<u> </u>		003ai 10770 VVD00	00 1100 (00) Oyolc 21 000	ruv specifoscopic serisitivity iv	IOTIILOI					
ı		Proposal 15773, WD0308-AUG	(08), failed			Fri Aug 14 17:01:02 GMT 2020				
<u>.</u> ±		Diagnostic Status: No Diagnostic	cs							
į	2	Scientific Instruments: S/C, COS/								
_		Special Requirements: SCHED 100%; BETWEEN 04-AUG-2020:00:00 AND 17-AUG-2020:00:00								
L		Comments: All G160M observatio	ons are with $SEGMENT = B$ (i.e. segment A is tur	rned off).						
Ι,,	,	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
of the factor of	5	(1) WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 0.018141 sec of time/yr	V=14.07+/-0.02	Reference Frame: ICRS				
5	"		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 0.0643 arcsec/yr						
۱Ë	-		Equinox: J2000	Epoch of Position: 2000						
7	3	Comments: Coordinates carried o	over from Cycle 25 proposal							
╽╬		Category=STAR								
Ľ		Description=[DB] Extended=NO								

Proposal 15773 - WD0308-AUG (08) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

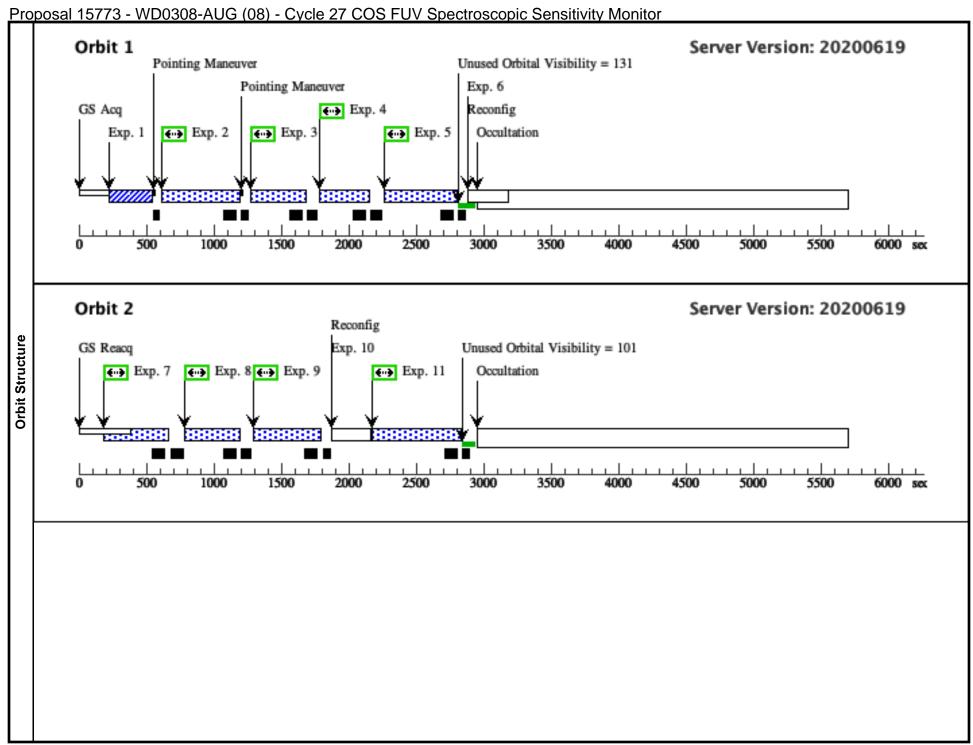
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit		
1	ACQ/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)			
	(839564)							[==>]	[1]		
Co.			te times not reduced following updated		**	affect orbit requeste	ed		1		
2	G130M/105 5/LP2	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=26 3;			363 Secs (363 Secs)			
	(COS.sp.130	l		1055 A	FP-POS=3;			[==>]			
	2132)	2752)			SEGMENT=BOTH	;			[1]		
					LIFETIME-POS=L P2						
Tai Set	mments: ETC b rget has been of buffer time = e ntinue use of 1	uffer time is larger th bserved before no neo xptime - 100 FP-POS	nan exptime (1482) ed to 2/3 factor								
3	G130M/122	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=15			254 Secs (254 Secs)			
	(COS.sp.130	1		1222 A	4;			[==>]			
	2754)				FP-POS=3; LIFETIME-POS=L				[1]		
					P4;				[1]		
					SEGMENT=BOTH						
	ntinue use of 1	FP-POS (1) WD0308-565	se buffer time = exptime -100 sec to m COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=13 3;			233 Secs (233 Secs) [==>]			
	1908)				FP-POS=3; LIFETIME-POS=L P4;				[1]		
					SEGMENT=BOTH						
Sin	SEGMENT=BOTH Comments: ETC buffer time is 322 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 144 Continue use of 1 FP-POS										
5	G140L/1280 (COS.sp.102	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=22 8;			328 Secs (328 Secs)			
	1719)			1280 A	FP-POS=3;			I==>J			
					LIFETIME-POS=L P4;				[1]		
					SEGMENT=BOTH						
Tai Set	rget has been of	uffer time is 451, larg bserved before no neo xptime - 100 = 180 FP-POS	ger than exptime ed to 2/3 factor								
6		DARK	S/C, DATA, NONE			QASISTATES CO	os —	1 Secs (1 Secs)			
						FUV HVLOW HV OW	L	[==>]	[1]		
Co	mments: Work-	around to efficiently	schedule the reconfiguration to SEG-A	. Eliminates SPSS	induced gaps.						

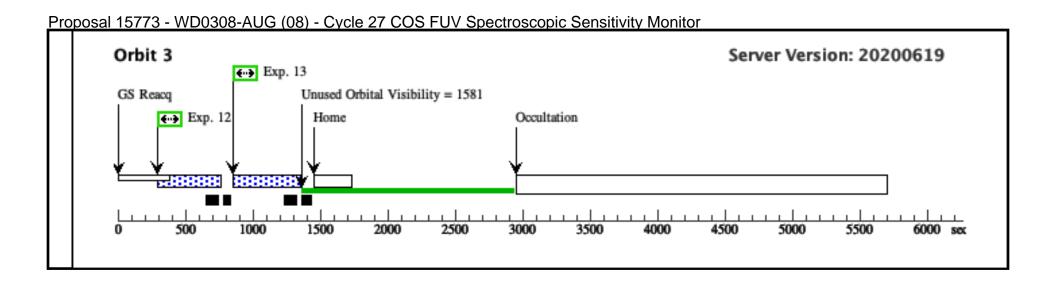
	53 (1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	222 Secs (222 Secs)	
3/B	121		1533 A	BUFFER-TIME=12	[==>]	
(COS.sp. 1897)	131			2;		
				LIFETIME-POS=L P4;		l l
				SEGMENT=B		
Target has been	C buffer time is 487, lar n observed before no ned = exptime - 100	ger than exptime ed to 2/3 factor				
Continue use o	f 1 FP-POS					
	57 (1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	273 Secs (273 Secs)	
7/B (COS.sp.	131		1577 A	BUFFER-TIME=17	[==>]	
1899)	131			3;		
				LIFETIME-POS=L P4;		
				SEGMENT=B		
Comments: ET	C buffer time is 599, lar	ger than exptime				Į
Target has been	n observed before no ned = exptime - 100	ed to 2/3 factor				
Continue use o						
	G160M/162 (1) WD0308-565 3/B	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	369 Secs (369 Secs)	
(COS.sp.	131		1623 A	BUFFER-TIME=26 9;	[==>]	
1901))			, LIFETIME-POS=L		
				P4;		
				SEGMENT=B		
Comments: ET Target has beer Set buffer time Continue use o	C buffer time is 799, lar n observed before no ned = exptime - 100 = 300 f 1 FP-POS	ger than exptime ed to 2/3 factor		SEGMENT=B		
Comments: ET Target has beet Set buffer time Continue use o	C buffer time is 799, lar n observed before no ne = exptime - 100 = 300 f 1 FP-POS DARK	ger than exptime ed to 2/3 factor S/C, DATA, NONE		QASISTATES COS	1 Secs (1 Secs)	
Target has beei Set buffer time Continue use o	n observed before no ned = exptime - 100 = 300 f 1 FP-POS	ed to 2/3 factor		QASISTATES COS FUV HVLOW HVL	1 Secs (1 Secs) [==>]	
Target has beer Set buffer time Continue use o	n observed before no ned = exptime - 100 = 300 f 1 FP-POS DARK	ed to 2/3 factor S/C, DATA, NONE	A Fliminates SP	QASISTATES COS FUV HVLOW HVL OW		
Target has been Set buffer time Continue use of 10 Comments: Wo	n observed before no ned = exptime - 100 = 300 f 1 FP-POS DARK rk-around to efficiently	ed to 2/3 factor S/C, DATA, NONE schedule the reconfiguration to SEG-		QASISTATES COS FUV HVLOW HVL OW SS induced gaps.	[==>]	
Farget has been set buffer time Continue use of the Comments: Wo Gl40L/86 FUVA	n observed before no need a captime - 100 = 300 f 1 FP-POS DARK ork-around to efficiently DO/ (1) WD0308-565	ed to 2/3 factor S/C, DATA, NONE	G140L	QASISTATES COS FUV HVLOW HVL OW	[==>] 363 Secs (363 Secs)	
Farget has been set buffer time Continue use of the Comments: Wo Gl40L/86 FUVA	n observed before no need a captime - 100 = 300 f 1 FP-POS DARK ork-around to efficiently DO/ (1) WD0308-565	ed to 2/3 factor S/C, DATA, NONE schedule the reconfiguration to SEG-		QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26	[==>]	
Target has been Set buffer time Continue use of 10 Comments: Wo	n observed before no need a captime - 100 = 300 f 1 FP-POS DARK ork-around to efficiently DO/ (1) WD0308-565	ed to 2/3 factor S/C, DATA, NONE schedule the reconfiguration to SEG-	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A;	[==>] 363 Secs (363 Secs)	
Farget has been set buffer time Continue use of the Comments: Wo Gl40L/86 FUVA	n observed before no need a captime - 100 = 300 f 1 FP-POS DARK ork-around to efficiently DO/ (1) WD0308-565	ed to 2/3 factor S/C, DATA, NONE schedule the reconfiguration to SEG-	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Comments: Wo G140L8(COS.sp. 2815)	n observed before no nee = exptime - 100 = 300 f 1 FP-POS DARK ork-around to efficiently 00/ (1) WD0308-565	ed to 2/3 factor S/C, DATA, NONE schedule the reconfiguration to SEG- COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A;	[==>] 363 Secs (363 Secs)	
Target has been Set buffer time Continue use of 10 Comments: Wo 11 G140L/80 FUVA (COS.sp. 2815) Comments: ETTarget has been	n observed before no nee = exptime - 100 = 300 f 1 FP-POS DARK ork-around to efficiently 00/ (1) WD0308-565 130 C buffer time is 362, largen observed before no nee	ed to 2/3 factor S/C, DATA, NONE schedule the reconfiguration to SEG- COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Target has been Set buffer time Continue use of 10 Comments: Wo 11 G140L/86 FUVA (COS.sp. 2815) Comments: ETT Carget has been Set buffer time	n observed before no nee = exptime - 100 = 300 f 1 FP-POS DARK ork-around to efficiently 00/ (1) WD0308-565 130 C buffer time is 362, lar, n observed before no nee = exptime - 100 = 263	ed to 2/3 factor S/C, DATA, NONE schedule the reconfiguration to SEG- COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Target has been Set buffer time Continue use of 10 Comments: Wo 11 G140L/80 FUVA (COS.sp. 2815) Comments: ETTarget has been	n observed before no nee = exptime - 100 = 300 f 1 FP-POS DARK ork-around to efficiently 00/ (1) WD0308-565 130 C buffer time is 362, lar, n observed before no nee = exptime - 100 = 263	ed to 2/3 factor S/C, DATA, NONE schedule the reconfiguration to SEG- COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Target has been Set buffer time Continue use of 10 Comments: Wo 11 G140L/86 FUVA (COS.sp. 2815) Comments: ETT Carget has been Set buffer time	n observed before no nee = exptime - 100 = 300 f 1 FP-POS DARK ork-around to efficiently 00/ (1) WD0308-565 130 C buffer time is 362, lar, n observed before no nee = exptime - 100 = 263	ed to 2/3 factor S/C, DATA, NONE schedule the reconfiguration to SEG- COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Target has been Set buffer time Continue use of 10 Comments: Wo 11 G140L/86 FUVA (COS.sp. 2815) Comments: ETT Carget has been Set buffer time	n observed before no nee = exptime - 100 = 300 f 1 FP-POS DARK ork-around to efficiently 00/ (1) WD0308-565 130 C buffer time is 362, lar, n observed before no nee = exptime - 100 = 263	ed to 2/3 factor S/C, DATA, NONE schedule the reconfiguration to SEG- COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Target has been Set buffer time Continue use of 10 Comments: Wo 11 G140L/86 FUVA (COS.sp. 2815) Comments: ETT Carget has been Set buffer time	n observed before no nee = exptime - 100 = 300 f 1 FP-POS DARK ork-around to efficiently 00/ (1) WD0308-565 130 C buffer time is 362, lar, n observed before no nee = exptime - 100 = 263	ed to 2/3 factor S/C, DATA, NONE schedule the reconfiguration to SEG- COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	
Target has been Set buffer time Continue use of 10 Comments: Wo 11 G140L/86 FUVA (COS.sp. 2815) Comments: ETT Carget has been Set buffer time	n observed before no nee = exptime - 100 = 300 f 1 FP-POS DARK ork-around to efficiently 00/ (1) WD0308-565 130 C buffer time is 362, lar, n observed before no nee = exptime - 100 = 263	ed to 2/3 factor S/C, DATA, NONE schedule the reconfiguration to SEG- COS/FUV, TIME-TAG, PSA	G140L	QASISTATES COS FUV HVLOW HVL OW SS induced gaps. BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L	[==>] 363 Secs (363 Secs)	

Proposal 15773 - WD0308-AUG (08) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor G140L/1105 (1) WD0308-565 /FUVA (COS.sp.102 1720) BUFFER-TIME=22 COS/FUV, TIME-TAG, PSA G140L 327 Secs (327 Secs) 7; 1105 A [==>] FP-POS=3; SEGMENT=A; [3] LIFETIME-POS=L Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS 13 G130M/132 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=17 278 Secs (278 Secs) 7/FUVA 8; 1327 A [==>] (COS.sp.102 1693) FP-POS=3; LIFETIME-POS=L [3] P4; SEGMENT=A Comments: ETC buffer time is 320 sec. Target has been observed before and so no need for 2/3 safety margin.

Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 212

Continue use of 1 FP-POS





Proposal 15773 - WD0308-AUG (58) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

Proposal 15773, WD0308-AUG (58), implementation Fri Aug 14 17:01:02 GMT 2020

Diagnostic Status: No Diagnostics

Scientific Instruments: S/C, COS/FUV, COS/NUV

Special Requirements: SCHED 100%; BETWEEN 31-AUG-2020:00:00:00 AND 07-SEP-2020:00:00:00

Comments: This is a partial repeat of visit 08, in which all exposures after the first orbit failed. All G160M observations are with SEGMENT = B (i.e. segment A is turned off).

Γ	,	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
Į	306	(1) WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 0.018141 sec of time/yr	V=14.07+/-0.02	Reference Frame: ICRS
1 2	= I		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 0.0643 arcsec/yr		
"	-		Equinox: J2000	Epoch of Position: 2000		
7		Comments: Coordinates carried over Category=STAR	r from Cycle 25 proposal			
	-	Description=[DB] Extended=NO				

Proposal 15773 - WD0308-AUG (58) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

1	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			e times not reduced following updated			affect orbit requested	<u>'. </u>		
2	G160M/153 3/B	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			222 Secs (222 Secs)	
	(COS.sp.131 1897)			1533 A	BUFFER-TIME=12 2;			[==>]	
	1897)				LIFETIME-POS=L P4;				[1]
					SEGMENT=B				
Targ Set b	get has been ob buffer time = e.	•	ger than exptime ed to 2/3 factor						
Con	tinue use of 1 l	FP-POS (1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			273 Secs (273 Secs)	
J	7/B	(1) WD0308-303	COS/TOV, TIME-TAG, TSA	1577 A	BUFFER-TIME=17			[==>]	
	(COS.sp.131 1899)				3; LIFETIME-POS=L				[1]
					P4; SEGMENT=B				
Con	ıments: ETC b	uffer time is 599, larg	ger than exptime						
Targ Set l	get has been ob buffer time = e.	pserved before no nee xptime - 100	ed to 2/3 factor						
Con	tinue use of 1 I	FP-POS							
4		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			369 Secs (369 Secs)	
	3/B (COS.sp.131 1901)			1623 A	BUFFER-TIME=26 9;	i		[==>]	
	1901)				LIFETIME-POS=L P4;				[1]
					SEGMENT=B				
Con	ıments: ETC bi	uffer time is 799, larg	ger than exptime						
Set E	get has been ol buffer time = e. tinue use of 1 1	pserved before no nee xptime - 100 = 300 EP-POS	ed to 2/3 factor						
5	intile lise of 1 1	DARK	S/C, DATA, NONE			QASISTATES COS		1 Secs (1 Secs)	
						FUV HVLOW HVI OW	_	[==>]	[1]
Com	ments: Work-a	around to efficiently s	schedule the reconfiguration to SEG-A	. Eliminates SPSS	induced gans.	0,11			
COM.		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=26			363 Secs (363 Secs)	
6	FUVA	` '	, -, -, -, -	800 A	3;			[==>]	
6	(COS on 120				FP-POS=3;				
6	(COS.sp.130 2815)				SEGMENT=A;				[2]
6	(COS.sp.130								[2]
6	(COS.sp.130				LIFETIME-POS=L				[2]
6 Com Targ Set I	(COS.sp.130 2815) aments: ETC bigget has been ob	uffer time is 362, larg sserved before no nee xntime - 100 = 263	ger than exptime ed to 2/3 factor						
6 Com Targ Set I	(COS.sp.130 2815) mments: ETC by get has been ob	uffer time is 362, larg sserved before no nee xntime - 100 = 263	ger than exptime ed to 2/3 factor		LIFETIME-POS=L				[2]

Proposal 15773 - WD0308-AUG (58) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor G140L/1105 (1) WD0308-565 BUFFER-TIME=22 327 Secs (327 Secs) COS/FUV, TIME-TAG, PSA G140L /FUVA 7: 1105 A *[==>1* (COS.sp.102 1720) FP-POS=3; SEGMENT=A: [2] LIFETIME-POS=L Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180Continue use of 1 FP-POS G130M/132 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=17 278 Secs (278 Secs) 7/FUVA 8; 1327 A f = = > 1(COS.sp.102 FP-POS=3; 1693) LIFETIME-POS=L [2] P4: SEGMENT=A Comments: ETC buffer time is 320 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 212 Continue use of 1 FP-POS Orbit 1 Server Version: 20200619 Pointing Maneuver Unused Orbital Visibility = 744 € Exp. 3 GS Acq Exp. 5 ←→ Exp. 2 Occultation Exp. 1 € → Exp. 4 Reconfig **Orbit Structure** 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec Orbit 2 Server Version: 20200619 GS Reacq Unused Orbital Visibility = 991 €-- Exp. 7 €-- Exp. 8 Home Occultation € Exp. 6 ____ 2500 500 1000 1500 2000 3000 3500 4000 4500 5000 5500 6000 sec

Proposal 15773 - GD71-AUG (09) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

Proposal 15773, GD71-AUG (09), scheduled Fri Aug 14 17:01:02 GMT 2020

Diagnostic Status: No Diagnostics

Scientific Instruments: S/C, COS/FUV, COS/NUV

Special Requirements: SCHED 100%; BETWEEN 15-AUG-2020:00:00:00 AND 29-AUG-2020:00:00:00

Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation
George Chapman added Exposure 3
Optimized the exposure time for the G130M/1096 setting to increase its SNR (exp time = 744 s) while remaining within the allocated time.

Opin	підви інв вхрозите пінв з	of the 0130M/1090 setting to increase its sink (exp	ime = 744 s) white remaining within the allocal	ea ume.	
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
gets (2)	GD71	RA: 05 52 27.6100 (88.1150417d)	Proper Motion RA: 85 mas/yr	V=13.06+/-0.01	Reference Frame: ICRS
g		Dec: +15 53 13.80 (15.88717d)	Proper Motion Dec: -174 mas/yr		
<u> </u> <u>a</u>		Equinox: J2000	Epoch of Position: 2000		
		C amd PM as in proposal 12392 by Bohlin et al.			
	ied over from Cycle 25 p gory=STAR	roposal.			
	ription=[DA]				
Exter	nded=NO				

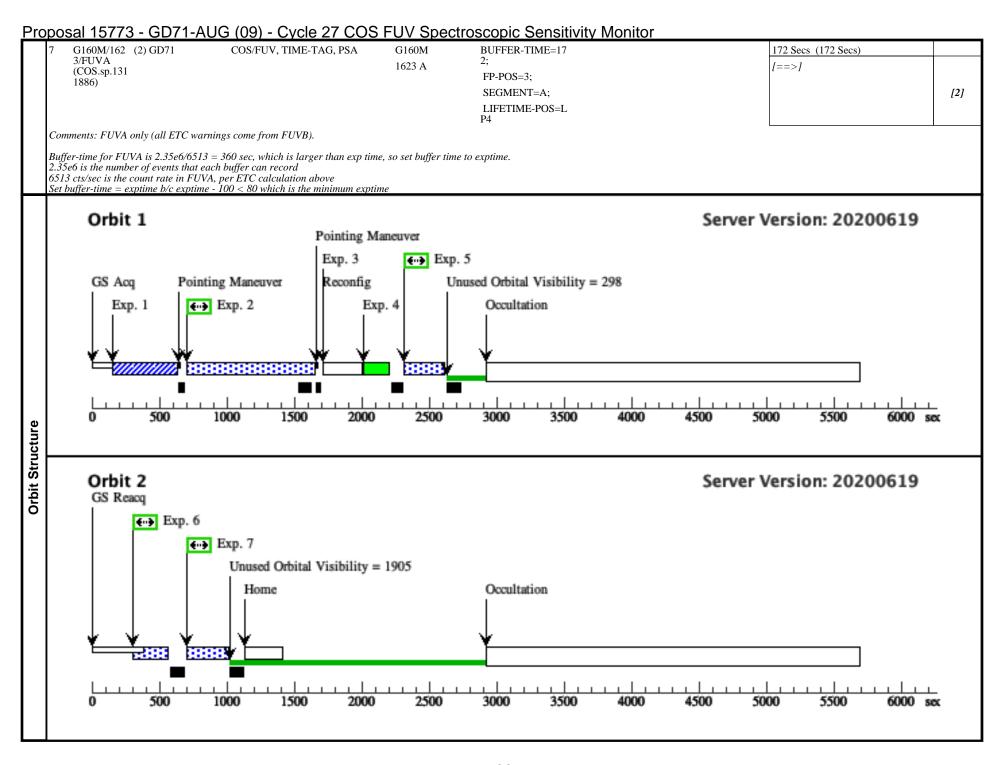
Proposal 15773 - GD71-AUG (09) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

Label (ETC Run)

Target Config, Mode, Aperture Spectral Els. Opt. Params. Special Reqs.

| 1 ACQ/IM (2) GD71 COS/NUV, ACQ/IMAGE, BOA MIRRORB

#	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) I = > 1	[1]
C	574)	o for S/N of 60	is 105.5 sec, using 90 sec leads to S/N of 55.					1/	[1]
2	G130M/109 6/FUVB/LP 2 (COS.sp.839 576)	(2) GD71	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=64 4; FP-POS=3; SEGMENT=B;			744 Secs (744 Secs) [==>]	[1]
			warnings come from FUVA). c = 644 to maximize time on target.		LIFETIME-POS=L P2				
3		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVI		1 Secs (1 Secs)	
						OW OW	_	[==>]	[1]
Ca	omments: Work-	around to effici	ently schedule the SEG-B to SEG-A reconfigu	ration. Eliminate	es SPSS induced gaps.				
4	G130M/109	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;			140 Secs (140 Secs)	
	6/FUVA W AVECAL/L			1096 A	SEGMENT=A;			[==>]	
	P2				FLASH=NO; LIFETIME-POS=L P2				[1]
<u>م</u> 5	G160M/153	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=10			103 Secs (103 Secs)	
ב ב	3/FUVA (COS.sp.131			1533 A	3;			[==>]	
S	1884)				FP-POS=3;				677
					SEGMENT=A; LIFETIME-POS=L P4				[1]
			warnings come from FUVB). $513 = 360$ sec, which is larger than exp time,	so set huffer time					
2.3 65	35e6 is the numb 13 cts/sec is the	er of events tha count rate in F	tt each buffer can record UVA, per ETC calculation above ime - 100 < 80 which is the minimum exptime		io capilino.				
6	G160M/157	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=13			132 Secs (132 Secs)	
	7/FUVA (COS.sp.131			1577 A	2; ED DOS-2.			I==>J	
	1885)				FP-POS=3; SEGMENT=A;				[2]
					LIFETIME-POS=L P4				[2]
Co	omments: FUVA	only (all ETC v	warnings come from FUVB).						
Bu 2.3 65	uffer-time for FU 35e6 is the numb 13 cts/sec is the	VA is 2.35e6/6. er of events that count rate in F	513 = 360 sec, which is larger than exp time, tt each buffer can record UVA, per ETC calculation above ime - 100 < 80 which is the minimum exptime	•	to exptime.				
- 1									



Proposal 15773 - WD0308-OCT (10) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

<u> </u>	1000 WD00	00 001 (10) Oyolc 21 000	I OV Specificacopic definitivity iv	ioriitoi							
	Proposal 15773, WD0308-OCT (10), scheduling Fri Aug 14 17:01:03 GMT 2020										
.±	Diagnostic Status: No Diagnosti										
/is	Scientific Instruments: S/C, COS/	Scientific Instruments: S/C, COS/FUV, COS/NUV									
Special Requirements: SCHED 100%; BETWEEN 06-OCT-2020:00:00 AND 19-OCT-2020:00:00											
	Comments: All G160M observations are with SEGMENT = B (i.e. segment A is turned off).										
۱,,	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous						
ets	(1) WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 0.018141 sec of time/yr	V=14.07+/-0.02	Reference Frame: ICRS						
arg	Dec: -56 23 49.41 (-56.39706d) Proper Motion Dec: 0.0643 arcsec/vr										
⊢	Equinox: J2000 Epoch of Position: 2000										
eq	Comments: Coordinates carried over from Cycle 25 proposal										
I.≚	Category=STAR Description=[DB]										
L	Extended=NO										

Proposal 15773 - WD0308-OCT (10) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

1	(ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbi
1	ACQ/IM	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
	(839564)							[==>]	[1]
Con	nments: cycle 2	4 comment: exposure	e times not reduced following updated	l ETC calculations,	differences not enough to	affect orbit request	ed.		
2		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=26			363 Secs (363 Secs)	
	5/LP2 (COS.sp.130			1055 A	3;			I = = > J	
	2752)				FP-POS=3;				
					SEGMENT=BOTH				[1]
					LIFETIME-POS=L P2				
Targ Set l	nments: ETC bi get has been ob buffer time = ex itinue use of 1 I	uffer time is larger th sserved before no nee xptime - 100 FP-POS	nan exptime (1482) ed to 2/3 factor						•
3		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=15			254 Secs (254 Secs)	
	2 (COS.sp.130			1222 A	4;			[==>]	
	2754)				FP-POS=3;				
					LIFETIME-POS=L P4;				[1]
					SEGMENT=BOTH				
Con	nments: ETC hi	uffer time is 395 sec	Target has been observed before and	so no need for 2/3 s					-1
Sinc	ce buffer time la	arger than exptime us	se buffer time = $exptime -100$ sec to n	naximize time on tar	get = 126				
Con	tinue use of 1 I								
Con 4		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=13			233 Secs (233 Secs)	
Con 4	G130M/129 1 (COS.sp.131		COS/FUV, TIME-TAG, PSA	G130M 1291 A	3;			233 Secs (233 Secs) [==>]	
Con 4	G130M/129		COS/FUV, TIME-TAG, PSA		3; FP-POS=3;			` '	П
Con 4	G130M/129 1 (COS.sp.131		COS/FUV, TIME-TAG, PSA		3;			` '	[1]
Con 4	G130M/129 1 (COS.sp.131		COS/FUV, TIME-TAG, PSA		3; FP-POS=3; LIFETIME-POS=L			` '	[1]
Com Com Since	G130M/129 1 (COS.sp.131 1908)	(1) WD0308-565 uffer time is 322 sec. urger than exptime us	COS/FUV, TIME-TAG, PSA Target has been observed before and se buffer time = exptime -100 sec to n	1291 A	3; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			` '	[1]
Con Con Sinc	G130M/129 1 (COS.sp.131 1908) nnments: ETC bi ce buffer time le atinue use of 1 I	(1) WD0308-565 uffer time is 322 sec. urger than exptime us FP-POS (1) WD0308-565	Target has been observed before and	1291 A	3; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH safety margin. get = 144 BUFFER-TIME=22			` '	[1]
Com Since Con	G130M/129 1 (COS.sp.131 1908) nnments: ETC bi ce buffer time le atinue use of 1 I G140L/1280 (COS.sp.102	(1) WD0308-565 uffer time is 322 sec. urger than exptime us FP-POS (1) WD0308-565	Target has been observed before and se buffer time = exptime -100 sec to n	1291 A so no need for 2/3 s naximize time on tar	3; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH safety margin. get = 144 BUFFER-TIME=22 8;			[==>]	[1]
Com Since Com	G130M/129 1 (COS.sp.131 1908) nnments: ETC bi ce buffer time le atinue use of 1 I	(1) WD0308-565 uffer time is 322 sec. urger than exptime us FP-POS (1) WD0308-565	Target has been observed before and se buffer time = exptime -100 sec to n	1291 A so no need for 2/3 s naximize time on tar	3; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH safety margin. get = 144 BUFFER-TIME=22 8; FP-POS=3;			[==>] 328 Secs (328 Secs)	
Con Sinc Con	G130M/129 1 (COS.sp.131 1908) nnments: ETC bi ce buffer time le atinue use of 1 I G140L/1280 (COS.sp.102	(1) WD0308-565 uffer time is 322 sec. urger than exptime us FP-POS (1) WD0308-565	Target has been observed before and se buffer time = exptime -100 sec to n	1291 A so no need for 2/3 s naximize time on tar	3; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH safety margin. get = 144 BUFFER-TIME=22 8; FP-POS=3; LIFETIME-POS=L			[==>] 328 Secs (328 Secs)	
Con Sinc Con	G130M/129 1 (COS.sp.131 1908) nnments: ETC bi ce buffer time le atinue use of 1 I G140L/1280 (COS.sp.102	(1) WD0308-565 uffer time is 322 sec. urger than exptime us FP-POS (1) WD0308-565	Target has been observed before and se buffer time = exptime -100 sec to n	1291 A so no need for 2/3 s naximize time on tar	3; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH safety margin. get = 144 BUFFER-TIME=22 8; FP-POS=3; LIFETIME-POS=L P4;			[==>] 328 Secs (328 Secs)	
Com Sinc Con 5	G130M/129 1 (COS.sp.131 1908) numents: ETC bit the buffer time leatinue use of 1 I G140L/1280 (COS.sp.102 1719) numents: ETC bit the buffer time = e.	(1) WD0308-565 uffer time is 322 sec. urger than exptime us FP-POS (1) WD0308-565 uffer time is 451, large served before no neg xptime - 100 = 180	Target has been observed before and se buffer time = exptime -100 sec to n COS/FUV, TIME-TAG, PSA	1291 A so no need for 2/3 s naximize time on tar	3; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH safety margin. get = 144 BUFFER-TIME=22 8; FP-POS=3; LIFETIME-POS=L			[==>] 328 Secs (328 Secs)	
Com Sinc Com Targ Set l	G130M/129 1 (COS.sp.131 1908) mments: ETC bit the least of 1 I G140L/1280 (COS.sp.102 1719) mments: ETC bit the least of 1 I minute use	(1) WD0308-565 uffer time is 322 sec. urger than exptime us FP-POS (1) WD0308-565 uffer time is 451, larg sserved before no nee xptime - 100 = 180 FP-POS	Target has been observed before and se buffer time = exptime -100 sec to n COS/FUV, TIME-TAG, PSA ger than exptime ed to 2/3 factor	1291 A so no need for 2/3 s naximize time on tar	3; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH safety margin. get = 144 BUFFER-TIME=22 8; FP-POS=3; LIFETIME-POS=L P4;			[==>] 328 Secs (328 Secs) [==>]	
Com Since Con 5 Com Targ	G130M/129 1 (COS.sp.131 1908) numents: ETC bit the buffer time leatinue use of 1 I G140L/1280 (COS.sp.102 1719) numents: ETC bit the buffer time = e.	(1) WD0308-565 uffer time is 322 sec. urger than exptime us FP-POS (1) WD0308-565 uffer time is 451, large served before no neg xptime - 100 = 180	Target has been observed before and se buffer time = exptime -100 sec to n COS/FUV, TIME-TAG, PSA	1291 A so no need for 2/3 s naximize time on tar	3; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH safety margin. get = 144 BUFFER-TIME=22 8; FP-POS=3; LIFETIME-POS=L P4;			[==>] 328 Secs (328 Secs)	[1]

(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;	·	222 Secs (222 Secs)	
` ,		1533 A	BUFFER-TIME=12		[==>]	
			2;			
						[
			,			
fer time is 487, larg erved before no nee otime - 100	ger than exptime ed to 2/3 factor					1
P-POS						
(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;		273 Secs (273 Secs)	
		1577 A	BUFFER-TIME=17		[==>]	
			3;			
			,			
fer time is 599, larg	ger than exptime					
erved before no nee otime - 100	ed to 2/3 factor					
P-POS						Т
(1) WD0308-565	COS/FUV, TIME-TAG, PSA				-	
		1623 A			[==>]	
			*			
			P4;			'
			SEGMENT=B			
fer time is 799, larg erved before no nee otime - 100 = 300	ger than exptime ed to 2/3 factor					
				OASISTATES COS	1 Sacs (1 Sacs)	
DAKK	5/C, DATA, NONE			FUV HVLOW HVL		
				OW	[>]	
					252 7 (252 7	
(1) WD0308-565	COS/FUV, TIME-TAG, PSA				` '	
		800 A			I==>J	
			SEGMENT=A;			
			LIFETIME-POS=L			
	fer time is 599, largerved before no need time - 100 P-POS 1) WD0308-565 fer time is 599, largerved before no need time - 100 P-POS 1) WD0308-565 fer time is 799, largerved before no need time - 100 = 300 P-POS DARK	1) WD0308-565 COS/FUV, TIME-TAG, PSA fer time is 599, larger than exptime erved before no need to 2/3 factor time - 100 2-POS 1) WD0308-565 COS/FUV, TIME-TAG, PSA fer time is 799, larger than exptime erved before no need to 2/3 factor time - 100 = 300 2-POS DARK S/C, DATA, NONE	fer time is 487, larger than exptime exved before no need to 2/3 factor stime - 100 P-POS 1) WD0308-565 COS/FUV, TIME-TAG, PSA G160M 1577 A fer time is 599, larger than exptime exved before no need to 2/3 factor stime - 100 P-POS 1) WD0308-565 COS/FUV, TIME-TAG, PSA G160M 1623 A fer time is 799, larger than exptime exved before no need to 2/3 factor stime - 100 = 300 P-POS DARK S/C, DATA, NONE	2; LIFETIME-POS=L P4; SEGMENT=B fer time is 487, larger than exptime erved before no need to 2/3 factor 1) WD0308-565 COS/FUV, TIME-TAG, PSA G160M FP-POS=3; LIFETIME-POS=L P4; SEGMENT=B fer time is 599, larger than exptime erved before no need to 2/3 factor 1) WD0308-565 COS/FUV, TIME-TAG, PSA G160M FP-POS=3; LIFETIME-POS=L P4; SEGMENT=B fer time is 599, larger than exptime erved before no need to 2/3 factor 1) WD0308-565 COS/FUV, TIME-TAG, PSA G160M FP-POS=3; LIFETIME-POS=L P4; SEGMENT=B fer time is 799, larger than exptime erved before no need to 2/3 factor time - 100 = 300 P-POS DARK S/C, DATA, NONE Ound to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps. 1) WD0308-565 COS/FUV, TIME-TAG, PSA G140L BUFFER-TIME=26	2; LIFETIME-POS=L P4; SEGMENT=B For time is 487, larger than exptime erved before no need to 2/3 factor time - 100 2-POS 1) WD0308-565 COS/FUV, TIME-TAG, PSA G160M FP-POS=3; LIFETIME-POS=L P4; SEGMENT=B For time is 599, larger than exptime erved before no need to 2/3 factor time - 100 2-POS 1) WD0308-565 COS/FUV, TIME-TAG, PSA G160M FP-POS=3; LIFETIME-POS=L P4; SEGMENT=B For time is 599, larger than exptime erved before no need to 2/3 factor time - 100 2-POS 1) WD0308-565 COS/FUV, TIME-TAG, PSA G160M FP-POS=3; LIFETIME-POS=L P4; SEGMENT=B For time is 799, larger than exptime erved before no need to 2/3 factor time - 100 = 300 2-POS DARK S/C, DATA, NONE QASISTATES COS FUV HVLOW HVL ownd to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps. 1) WD0308-565 COS/FUV, TIME-TAG, PSA G140L BUFFER-TIME=26 800 A 3;	2

Proposal 15773 - WD0308-OCT (10) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor G140L/1105 (1) WD0308-565 /FUVA (COS.sp.102 1720) BUFFER-TIME=22 COS/FUV, TIME-TAG, PSA G140L 327 Secs (327 Secs) 7; 1105 A [==>] FP-POS=3; SEGMENT=A; [3] LIFETIME-POS=L Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS

8;

BUFFER-TIME=17

FP-POS=3;

278 Secs (278 Secs)

[3]

[==>]

(COS.sp.102 1693) LIFETIME-POS=L P4; SEGMENT=A Comments: ETC buffer time is 320 sec. Target has been observed before and so no need for 2/3 safety margin.

G130M

1327 A

13 G130M/132 (1) WD0308-565

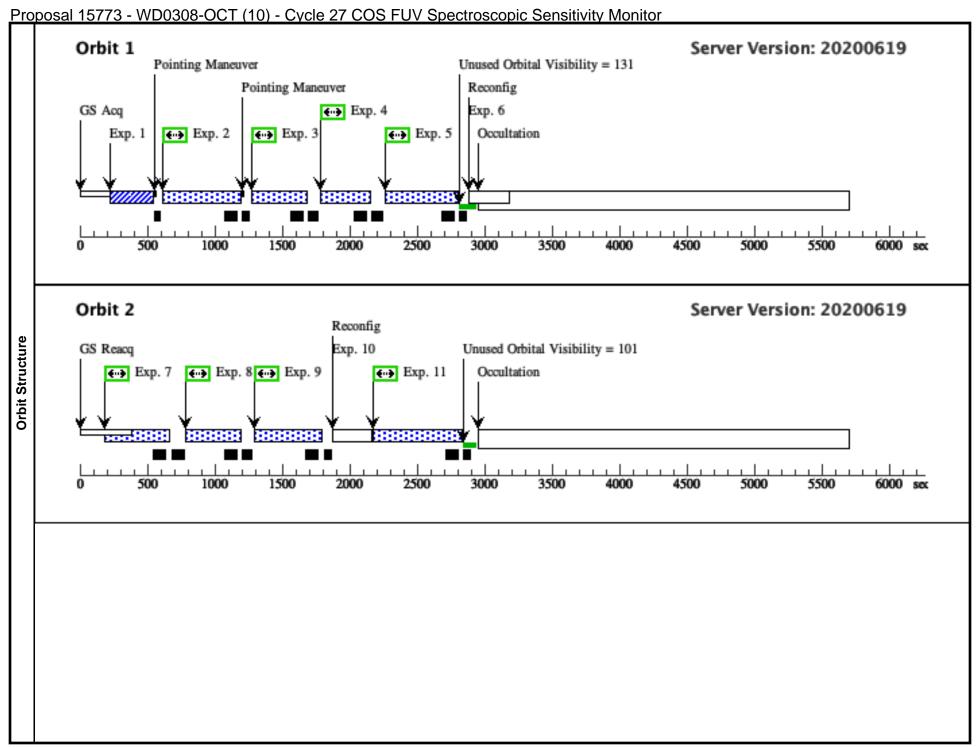
7/FUVA

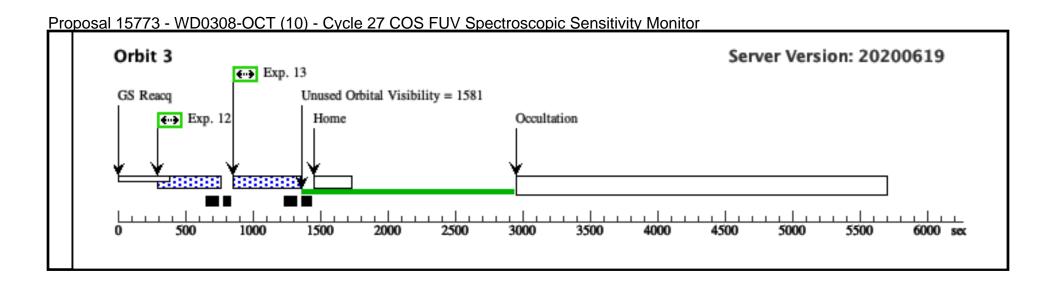
Continue use of 1 FP-POS

COS/FUV, TIME-TAG, PSA

Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 212

64





Proposal 15773 - GD71-OCT (11) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

Proposal 15773, GD71-OCT (11), scheduling Fri Aug 14 17:01:03 GMT 2020

Diagnostic Status: No Diagnostics

Scientific Instruments: S/C, COS/FUV, COS/NUV

Special Requirements: SCHED 100%; BETWEEN 16-OCT-2020:00:00:00 AND 29-OCT-2020:00:00:00

Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation
George Chapman added Exposure 3
Optimized the exposure time for the G130M/1096 setting to increase its SNR (exp time = 744 s) while remaining within the allocated time.

	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
ts	(2) GD71	RA: 05 52 27.6100 (88.1150417d)	Proper Motion RA: 85 mas/yr	V=13.06+/-0.01	Reference Frame: ICRS
rget		Dec: +15 53 13.80 (15.88717d)	Proper Motion Dec: -174 mas/yr		
<u>a</u>		Equinox: J2000	Epoch of Position: 2000		
1 8	Comments: Use sma RA, DEC Carried over from Cycle 25 p Category=STAR Description=[DA] Extended=NO	C amd PM as in proposal 12392 by Bohlin et al. roposal.			

Proposal 15773 - GD71-OCT (11) - Cycle 27 COS FUV Spectroscopic Sensitivity Monitor

,	C Run)		Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
)/IM	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs)	
574)	S.ta.839							[==>]	[1]
omments.	: Exptime	e for S/N of 60 is 10	05.5 sec, using 90 sec leads to S/N of 55	•					
		(2) GD71	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=64			744 Secs (744 Secs)	
2	JVB/LP			1096 A	4; FP-POS=3;			[==>]	
(COS 576)	S.sp.839				SEGMENT=B;				[1]
370)					LIFETIME-POS=L				LIJ
					P2				
omments. et buffer-i	s: FUVB o time = ex	only (all ETC warns optime - 100 sec = 0	ings come from FUVA). 644 to maximize time on target.						
		DARK	S/C, DATA, NONE					1 Secs (1 Secs)	
						OW OW	L	[==>]	[1]
omments.	s: Work-a	round to efficiently	schedule the SEG-B to SEG-A reconfig	uration. Eliminates	s SPSS induced gaps.				·
		WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;			140 Secs (140 Secs)	
				1096 A	SEGMENT=A;			[==>]	
P2					FLASH=NO;				[1]
					LIFETIME-POS=L				
G160	0M/153	(2) GD71	COS/FUV_TIME-TAG_PSA	G160M				103 Secs (103 Secs)	
3/FU	3/FUVA		COS/10 V, TIME-1AG, 15A		3;			` ′	
					FP-POS=3;				
,				SEGMENT=A;				[1]	
					LIFETIME-POS=L P4				
omments.	s: FUVA o	only (all ETC warn	ings come from FUVB).						
.35e6 is tl 513 cts/se	he numbe ec is the c	er of events that eac count rate in FUVA	ch buffer can record , per ETC calculation above		to exptime.				
		(2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=13			132 Secs (132 Secs)	
7/FU (COS	JVA S.sp.131			1577 A				[==>]	
1885	5)								[2]
					LIFETIME-POS=L				[2]
omments.	s: FUVA o	only (all ETC warn	ings come from FUVB).						1
.35e6 is tl 513 cts/se	he numbe ec is the c	er of events that eac count rate in FUVA	ch buffer can record , per ETC calculation above		to exptime.				
	G16 G16 G17 G18 G18 G18 G18 G17 G16	omments: Work-a G130M/109 6/FUVA W AVECAL/L P2 G160M/153 3/FUVA (COS.sp.131 1884) omments: FUVA offer-time for FUVA (COS.sp.131 1885) omments: FUVA offer-time = ex G160M/157 7/FUVA (COS.sp.131 1885)	DARK DARK	G130M/109 WAVE COS/FUV, TIME-TAG, WCA 6/FUVA W AVECAL/L P2 G160M/153 (2) GD71 COS/FUV, TIME-TAG, PSA 3/FUVA (COS.sp.131 1884) comments: FUVA only (all ETC warnings come from FUVB). comments: the number of events that each buffer can record 13 cts/sec is the count rate in FUVA, per ETC calculation above t buffer-time = exptime b/c exptime - 100 < 80 which is the minimum exptime G160M/157 (2) GD71 COS/FUV, TIME-TAG, PSA 7/FUVA (COS.sp.131 1885) comments: FUVA only (all ETC warnings come from FUVB). comments: FUVA only (all ETC warnings come from FUVB). comments: FUVA only (all ETC warnings come from FUVB). comments: FUVA only (all ETC warnings come from FUVB).	DARK S/C, DATA, NONE DARK S/C, DATA, NONE	mments: FUVB only (all ETC warnings come from FUVA). 1 buffer-time = exptime - 100 sec = 644 to maximize time on target. DARK S/C, DATA, NONE Mark	mments: FUVB only (all ETC warnings come from FUVA). t buffer-time = exptime - 100 sec = 644 to maximize time on target. DARK S/C, DATA, NONE QASISTATES CO FUV HVLOW HV omments: 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 PP-POS=3; GFUVA W AVECAL/L P2 FLASH=NO; LIFETIME-POS=L P2 G160M/153 (2) GD71 COS/FUV, TIME-TAG, PSA G160M BUFFER-TIME=10 3:FUVA (COS.sp.131 1884) FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4 mmments: FUVA only (all ETC warnings come from FUVB). differ-time for FUVA is 2.35e6/6513 = 360 sec, which is larger than exp time, so set buffer time to exptime. G160M/157 (2) GD71 COS/FUV, TIME-TAG, PSA G160M BUFFER-TIME=13 12 cts/sec is the count rate in FUVA, per ETC calculation above buffer-time exptime by exptime in FUVB (COS.sp.131 1885) G160M/157 (2) GD71 COS/FUV, TIME-TAG, PSA G160M BUFFER-TIME=13 7/FUVA (COS.sp.131 1885) G160M/157 (2) GD71 COS/FUV, TIME-TAG, PSA G160M BUFFER-TIME=13 1577 A 2; 1578 BUFFER-TIME=13 1577 A 2; 1578 BUFFER-TIME=13 1577 A 2; 1577	mments: FUVB only (all ETC warnings come from FUVA). thuffer-time = exptime - 100 sec = 644 to maximize time on target. DARK S.C, DATA, NONE QASISTATES COS FUV HVLOW HVL OW HV	P2

