

13520 - COS FUV Spectroscopic Sensitivity Monitoring

Cycle: 21, Proposal Category: CAL/COS

(Calibration)

(Availability Mode: RESTRICTED)

INVESTIGATORS

Name	Institution	E-Mail
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VISITS

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
21	(6) GD71 DARK WAVE	COS/FUV COS/NUV S/C	1	27-Aug-2014 21:02:22.0	yes
23	(6) GD71 DARK WAVE	COS/FUV COS/NUV S/C	1	27-Aug-2014 21:02:23.0	yes
25	(6) GD71 DARK WAVE	COS/FUV COS/NUV S/C	1	27-Aug-2014 21:02:25.0	yes
29	(6) GD71 DARK WAVE	COS/FUV COS/NUV S/C	1	27-Aug-2014 21:02:26.0	yes

Proposal 13520 (STScI Edit Number: 5, Created: Wednesday, August 27, 2014 8:02:48 PM EST) - Overview

	Targets used in Visit	Configurations used in Visit		Last Orbit Planner Run	OP Current with Visit?
99	(6) GD71 WAVE	COS/FUV	1	27-Aug-2014 21:02:27.0	yes
31	(6) GD71 DARK WAVE	COS/FUV S/C	1	27-Aug-2014 21:02:29.0	yes
02	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	27-Aug-2014 21:02:30.0	yes
04	(1) WD0308-565 DARK COS/FUV COS/NUV S/C		2	27-Aug-2014 21:02:33.0	yes
06	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	27-Aug-2014 21:02:35.0	yes
08	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	27-Aug-2014 21:02:38.0	yes
10	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	27-Aug-2014 21:02:40.0	yes
12	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	27-Aug-2014 21:02:42.0	yes
01	(1) WD0308-565	COS/FUV COS/NUV	1	27-Aug-2014 21:02:43.0	yes
03	(1) WD0308-565	COS/FUV COS/NUV	1	27-Aug-2014 21:02:44.0	yes
05	(1) WD0308-565	COS/FUV COS/NUV	1	27-Aug-2014 21:02:45.0	yes

Proposal 13520 (STScI Edit Number: 5, Created: Wednesday, August 27, 2014 8:02:48 PM EST) - Overview

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used		OP Current with Visit?
07	(1) WD0308-565	COS/FUV COS/NUV	1	27-Aug-2014 21:02:46.0	yes
09	(1) WD0308-565	COS/FUV COS/NUV	1	27-Aug-2014 21:02:46.0	yes
11	(1) WD0308-565	COS/FUV COS/NUV	1	27-Aug-2014 21:02:47.0	yes

24 Total Orbits Used

ABSTRACT

To track the time dependent sensitivity as a function of wavelength we will obtain exposures in all FUV gratings every month. There will be 2 types of monitoring sequences which will occur on alternating months. The complete monitoring sequence will use 3 orbits in 2 visits (except May - July when GD71 is unavailable). The 1 orbit visit will cover the G130M/1096/FUVB, G160M/1577/FUVA, and G160M/1623/FUVA modes. The 2 orbit visit will cover G130M/1222, G130M/1291, G130M/1327, G130M/1055/FUVA, G160M/1577/FUVB, G160M/1623/FUVB, G140L/1105, G140L/1230 modes. These comprise the reddest and bluest central wavelengths of each grating with additional coverage of the G130M blue modes. The reduced monitoring sequence in alternating months will use a 1 orbit visit to monitor the complete wavelength range of the standard modes using one central wavelength per grating. The modes covered are G130M/1291, G160M/1623, and G140L/1230. This reduced monitoring scheme, relative to C20, is put in place in C21 given that the slopes of the TDS seen to have stabilized at ~0%. Should any drastic changes occur, the contingency orbits will be activated.

OBSERVING DESCRIPTION

Track the time dependence of sensitivity as a function of wavelength. Obtain exposures in all FUV gratings every month. Every month there will be 2 visits totaling 3 orbits (except May-July when GD71 is unavailable). The 1 orbit visit will cover the G130M/1096/FUVB, G160M/1577/FUVA, and G160M/1623/FUVA central wavelengths. The 2 orbit visit will cover G130M/1222, G130M/1291, G130M/1327, G160M/1577/FUVB, G160M/1623/FUVB, G140L/1105/FUVA, and G140L/1230 central wavelengths. These comprise the reddest and bluest central wavelengths of each grating with additional coverage of the new G130M blue modes.

Proposal 13520 -	- GD71 (21) -	COS FUV	Spectroscopic	Sensitivity Monitoring
1 1000301 13320	- 001 1 (21)			

Proposal 13520, GD71 (21), completed Thu Aug 28 01:02:49 GMT 2014

Diagnostic Status: Warning

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

Special Requirements: SCHED 100%; BETWEEN 23-DEC-2013:00:00:00 AND 29-DEC-2013:00:00:00

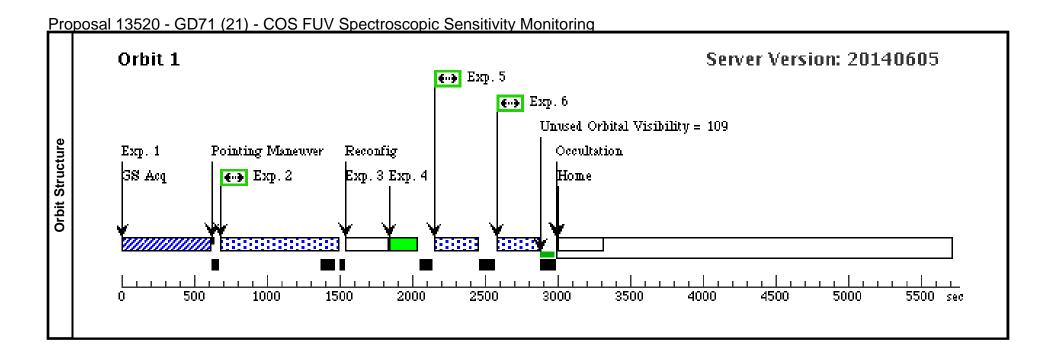
Comments: Modified to include a GO wavecal (exposure 4) to calculate the OSM shifts of the G130M/1096/FUVB observation George Chapman added Exposure 3

Diagnostics (GD71 (21)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

ts	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
g	(6)	GD71	RA: 05 52 27.6100 (88.1150417d)	Proper Motion RA: 85 mas/yr	V=13.06+/-0.01	Reference Frame: ICRS
<u>a</u> ∐			Dec: +15 53 13.80 (15.88717d)	Proper Motion Dec: -174 mas/yr		
٦			Equinox: J2000	Epoch of Position: 2000		
×	Comment	s: Use sma RA, DEC amd P.	M as in proposal 12392 by Bohlin et al.			
ΙŒ						

Proposal 13520 - GD71 (21) - COS FUV Spectroscopic Sensitivity Monitoring

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM	(6) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs)	
	(404797)							[==>]	[1]
	omments: Exptim sing 90 sec leads		105.5 sec which leads to visibility overru	n. COS.ta.404797					
2	G130M/109	(6) GD71	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=50			600 Secs (600 Secs)	
	6/FUVB (COS.sp.418			1096 A	0;			[==>]	
	698)				FP-POS=3;				[1]
					SEGMENT=B				
		time = 2.35e6/656 xptime - 100 sec =	b = 3582 sec. = 500 to maximize time on target (see Cy	20 IHB section 5.4.	1)				
3	M	DARK	S/C, DATA, NONE		,	QASISTATES COS		1 Secs (1 Secs)	
						FUV HVLOW HVL OW		[==>]	[1]
	omments: Work-	around to efficient	tly schedule the SEG-B to SEG-A reconfig	uration Fliminate	s SPSS induced gans	OW			
4	G130M/109		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3:			140 Secs (140 Secs)	
<u>.</u> .	6/FUVA W	W11VE	COS/10 V, TIME 1716, West	1096 A	SEGMENT=A;			[==>]	
	AVECAL			10,011	FLASH=NO				[1]
5	G160M/157	(6) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=10			102 Secs (102 Secs)	
	7/FUVA (COS.sp.413			1577 A	2;			[==>]	
	980)				FP-POS=3;				[1]
					SEGMENT=A				
2.	35e6 is the numb	er of events that e	2.35e6/8770 = 268 sec, which is larger to each buffer can record /A, per ETC calculation above	han exp time, so set	buffer time to exptime.				
6	G160M/162	(6) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=15			154 Secs (154 Secs)	
	3/FUVA (COS.sp.413			1623 A	4;			[==>]	
	984)				FP-POS=3;				[1]
					SEGMENT=A				
	omments: Buffer here 7635 is cts/s	time is 345 sec=2.	.35e6/7635						
			e - $100 < 80$ which is the minimum exptin	10					



Proposal 13520 -	- GD71 (23) -	- COS FUV	Spectroscopic	Sensitivity Monitoring
1 1000301 13320	· OD1 (23) ·			

Proposal 13520, GD71 (23), completed Thu Aug 28 01:02:49 GMT 2014

Diagnostic Status: Warning

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

Special Requirements: SCHED 100%; BETWEEN 17-FEB-2014:00:00:00 AND 23-FEB-2014:00:00:00

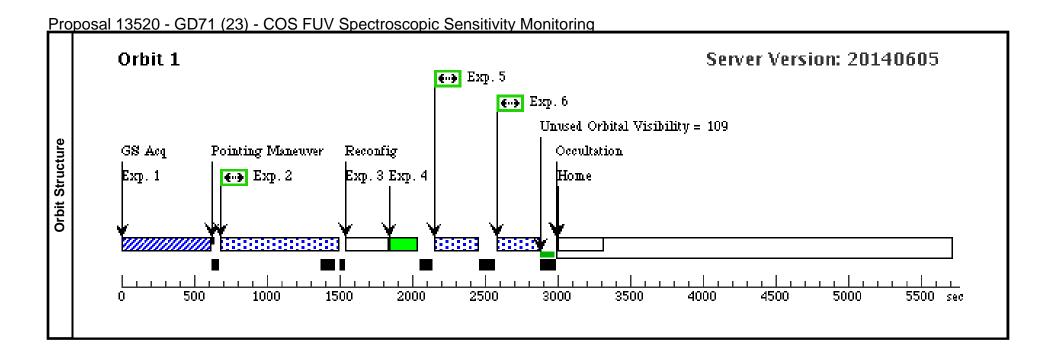
Comments: Modified to include a GO wavecal (exposure 4) to calculate the OSM shifts of the G130M/1096/FUVB observation George Chapman added Exposure 3

(GD71 (23)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

ts	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	
g	(6)	GD71	RA: 05 52 27.6100 (88.1150417d)	Proper Motion RA: 85 mas/yr	V=13.06+/-0.01	Reference Frame: ICRS	
٦ď			Dec: +15 53 13.80 (15.88717d)	Proper Motion Dec: -174 mas/yr			
ا ق			Equinox: J2000	Epoch of Position: 2000			
×	Comme	ents: Use sma RA, DE	C amd PM as in proposal 12392 by Bohlin et al.				

Proposal 13520 - GD71 (23) - COS FUV Spectroscopic Sensitivity Monitoring

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM	(6) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs)	
	(404797)							[==>]	[1]
	mments: Exptin ing 90 sec leads		105.5 sec which leads to visibility overru	n. COS.ta.404797					
2	G130M/109	(6) GD71	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=50			600 Secs (600 Secs)	
	6/FUVB (COS.sp.418			1096 A	0;			[==>]	
	698)				FP-POS=3;				[1]
					SEGMENT=B				
		time = 2.35e6/656 xptime - 100 sec =	5 = 3582 sec. = 500 to maximize time on target (see Cy	20 IHB section 5.4.	1)				
3		DARK	S/C, DATA, NONE			QASISTATES CO		1 Secs (1 Secs)	
						FUV HVLOW HV OW	L	[==>]	[1]
Co	mmants: Work-	around to officient	ly schedule the SEG-B to SEG-A reconfig	nuration Fliminate	s SPSS induced gams	011			
4	G130M/109		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;			140 Secs (140 Secs)	
7	6/FUVA W	WILLE	COS/10 V, TIME 171G, WEST	1096 A	SEGMENT=A;			[==>]	
	AVECAL			107071	FLASH=NO			1>1	[1]
5	G160M/157	(6) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=10			102 Secs (102 Secs)	
	7/FUVA	. ,		1577 A	2;			[==>]	
	(COS.sp.413 980)			10,,11	FP-POS=3;				[1]
	, , , ,				SEGMENT=A				
2.3	35e6 is the numb	er of events that e	2.35e6/8770 = 268 sec, which is larger t ach buffer can record 'A, per ETC calculation above	han exp time, so set	buffer time to exptime.				
6	G160M/162		COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=15			154 Secs (154 Secs)	
	3/FUVA (COS.sp.413			1623 A	4;			[==>]	
	984)				FP-POS=3;				[1]
l					SEGMENT=A				
	. D .cc	245 2	25 (7/25						
Co	mments: Buffer ere 7635 is cts/s	time is 345 sec=2.	.33e0//033						



Proposal 13520.	- GD71 (25) -	COS FUV	Spectroscopic	Sensitivity Monitoring
1 1000301 13320	· OD1 (23) ·		Opeciioscopic	

Proposal 13520, GD71 (25), completed Thu Aug 28 01:02:49 GMT 2014

Diagnostic Status: Warning

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

Special Requirements: SCHED 100%; BETWEEN 21-APR-2014:00:00:00 AND 27-APR-2014:00:00:00

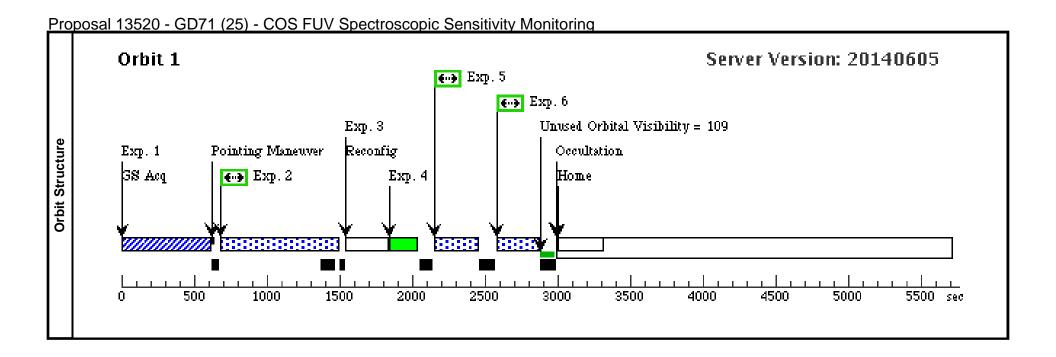
Comments: Modified to include a GO wavecal (exposure 4) to calculate the OSM shifts of the G130M/1096/FUVB observation George Chapman added Exposure 3

(GD71 (25)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

ts	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
l g	(6)	GD71	RA: 05 52 27.6100 (88.1150417d)	Proper Motion RA: 85 mas/yr	V=13.06+/-0.01	Reference Frame: ICRS
ıق			Dec: +15 53 13.80 (15.88717d)	Proper Motion Dec: -174 mas/yr		
٦			Equinox: J2000	Epoch of Position: 2000		
×	Comment	s: Use sma RA, DEC amd P	PM as in proposal 12392 by Bohlin et al.			
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Proposal 13520 - GD71 (25) - COS FUV Spectroscopic Sensitivity Monitoring

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM	(6) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs)	
	(404797)							[==>]	[1]
	omments: Exptim sing 90 sec leads		105.5 sec which leads to visibility overru	n. COS.ta.404797					
2	G130M/109	(6) GD71	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=50			600 Secs (600 Secs)	
	6/FUVB (COS.sp.418			1096 A	0;			I = => J	
	698)				FP-POS=3;				[1]
_					SEGMENT=B				
		time = 2.35e6/656 xptime - 100 sec =	o = 3582 sec. = 500 to maximize time on target (see Cy	20 IHB section 5.4.	1)				
3	MM.	DARK	S/C, DATA, NONE		,	QASISTATES COS		1 Secs (1 Secs)	
						FUV HVLOW HVL OW		[==>]	[1]
	'ammants: Wark a	around to officient	ly schedule the SEG-B to SEG-A reconfig	uration Eliminate	s SPSS induced gans	OW			1-3
4	G130M/109		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3:			140 Secs (140 Secs)	
- -	6/FUVA W	WAVL	COS/1 C V, TIME-TAG, WCA	1096 A	SEGMENT=A;			[==>]	
	AVECAL			107071	FLASH=NO			1>1	[1]
5	G160M/157	(6) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=10			102 Secs (102 Secs)	
	7/FUVA		., .,	1577 A	2;			[==>]	
	(COS.sp.413 980)				FP-POS=3;				[1]
	,				SEGMENT=A				
2.	.35e6 is the numb	er of events that ed	2.35e6/8770 = 268 sec, which is larger t ach buffer can record 'A, per ETC calculation above	han exp time, so set	buffer time to exptime.				
6	G160M/162	(6) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=15			154 Secs (154 Secs)	
	3/FUVA (COS.sp.413			1623 A	4;			[==>]	
	984)				FP-POS=3;				[1]
					SEGMENT=A				
	omments: Buffer i here 7635 is cts/s	time is 345 sec=2.	35e6/7635						
			e - 100 < 80 which is the minimum exptin						



Proposal 13520 -	GD71 (29)	- COS FUV	Spectroscopic S	ensitivity Monitoring
1 1000301 13320 -	0011(23)			

Proposal 13520, GD71 (29), withdrawn Thu Aug 28 01:02:49 GMT 2014

Diagnostic Status: Warning

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

Special Requirements: SCHED 100%; BETWEEN 18-AUG-2014:00:00:00 AND 24-AUG-2014:00:00:00

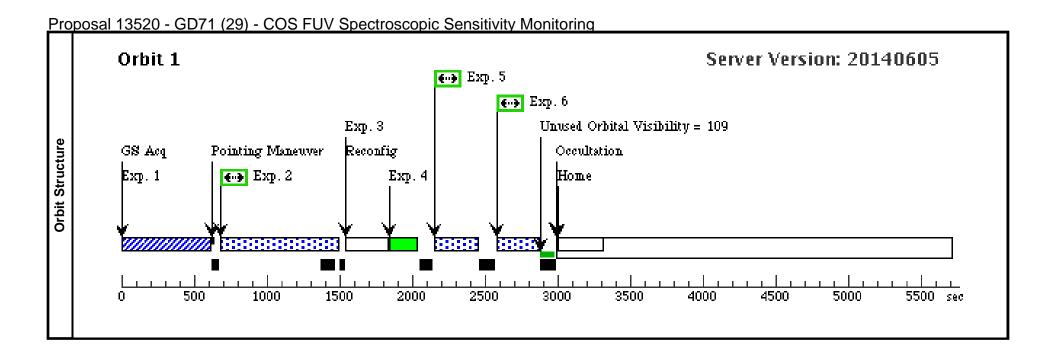
Comments: Modified to include a GO wavecal (exposure 4) to calculate the OSM shifts of the G130M/1096/FUVB observation George Chapman added Exposure 3

(GD71 (29)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

ts	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
g	(6)	GD71	RA: 05 52 27.6100 (88.1150417d)	Proper Motion RA: 85 mas/yr	V=13.06+/-0.01	Reference Frame: ICRS			
٦ď			Dec: +15 53 13.80 (15.88717d)	Proper Motion Dec: -174 mas/yr					
٦̈́			Equinox: J2000	Epoch of Position: 2000					
l ×	Comments: Use sma RA, DEC amd PM as in proposal 12392 by Bohlin et al.								
证									

Proposal 13520 - GD71 (29) - COS FUV Spectroscopic Sensitivity Monitoring

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM	(6) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs)	
	(404797)							[==>]	[1]
	omments: Exptim sing 90 sec leads		105.5 sec which leads to visibility overrun	n. COS.ta.404797					
2	G130M/109	(6) GD71	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=50			600 Secs (600 Secs)	
	6/FUVB (COS.sp.418			1096 A	0;			[==>]	
	698)				FP-POS=3;				[1]
	-				SEGMENT=B				
		time = 2.35e6/656 xptime - 100 sec =	6 = 3582 sec. = 500 to maximize time on target (see Cy	20 IHB section 5.4.	1)				
3		DARK	S/C, DATA, NONE			QASISTATES COS		1 Secs (1 Secs)	
,						FUV HVLOW HVL OW		[==>]	[1]
4	omments: Work-a	around to efficient	tly 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			1096 A	SEGMENT=A;			[==>]	
İ	AVECAL				FLASH=NO				[1]
5	G160M/157	(6) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=10			102 Secs (102 Secs)	
	7/FUVA (COS.sp.413			1577 A	2;			[==>]	
	980)				FP-POS=3;				[1]
					SEGMENT=A				
2.	35e6 is the numb	er of events that e	: 2.35e6/8770 = 268 sec, which is larger ti each buffer can record VA, per ETC calculation above	han exp time, so set	buffer time to exptime.				
6	G160M/162	(6) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=15			154 Secs (154 Secs)	
	3/FUVA (COS.sp.413			1623 A	4;			[==>]	
	984)				FP-POS=3;				[1]
					SEGMENT=A				
	omments: Buffer : here 7635 is cts/s	time is 345 sec=2	2.35e6/7635						
			ne - 100 < 80 which is the minimum exptin	пе					



Proposal 13520, GD71-DISP.ACQ (99), completed Thu Aug 28 01:02:49 GMT 2014

Diagnostic Status: Warning

Scientific Instruments: COS/FUV

Special Requirements: SCHED 100%; BETWEEN 18-AUG-2014:00:00:00 AND 24-AUG-2014:00:00:00

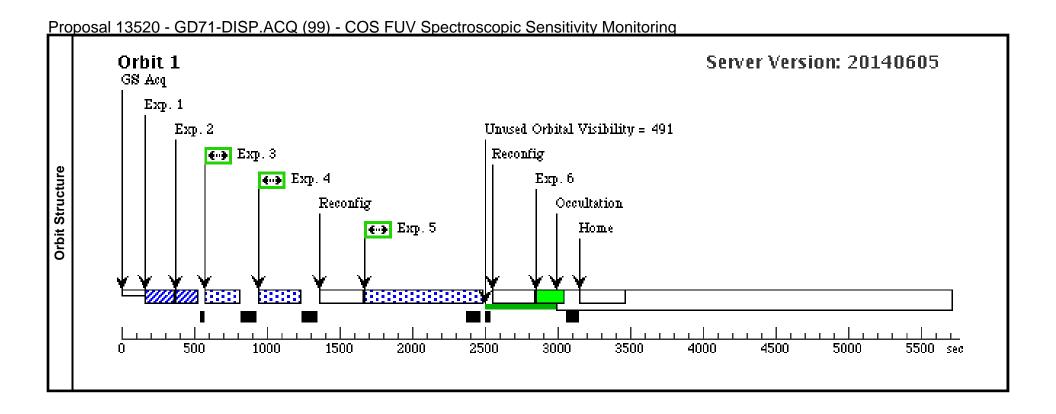
Comments: Modified to include a GO wavecal (exposure 6) to calculate the OSM shifts of the G130M/1096/FUVB observation

Jul 28 2014: Modified acquisition strategy (from MIRRORB to dispersed ACQ) following issue with MIRRORB ACQ; reshuffling the exposure orders (G160M, then G130M) to fit within 1 orbit -- hsana@stsi.edu

ics	(GD71-DISP.ACQ (99)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.								
ost	(ACQ/IM (99.001)) Warning (Form): SEGMENT=A is atypical for FUV ACQ/PEAKXD. See full description for details.								
ğ									
Dia									
ets	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
ge	(6) GD71	RA: 05 52 27.6100 (88.1150417d)	Proper Motion RA: 85 mas/yr	V=13.06+/-0.01	Reference Frame: ICRS				
ā		Dec: +15 53 13.80 (15.88717d)	Proper Motion Dec: -174 mas/yr						
٦		Equinox: J2000	Epoch of Position: 2000						
<u>×</u> .	Comments: Use sma RA, DEC	amd PM as in proposal 12392 by Bohlin et al.							
4									

Proposal 13520 - GD71-DISP.ACQ (99) - COS FUV Spectroscopic Sensitivity Monitoring

# Labe (ETC	el Target C Run)	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1 ACQ		COS/FUV, ACQ/PEAKXD, PSA	G160M	SEGMENT=A			0.3 Secs (0.3 Secs)	
(COS 924)	Š.sa.626		1623 A				[==>]	[1]
	: Exptime for S/N of 60 is 10 sec leads to S/N of 55	25.5 sec which leads to visibility overru	n. COS.ta.404797					
	14: modified ACQ strategy fo ired for Requested SNR in S							
2 ACQ		COS/FUV, ACQ/PEAKD, PSA	G160M	NUM-POS=5;			0.2 Secs (0.2 Secs)	
(COS 923)	S.sa.626		1623 A	STEP-SIZE=0.9;			[==>]	
723)				CENTER=FLUX-W T-FLR;				[1]
				SEGMENT=A				
	: Exptime for S/N of 60 is 10 sec leads to S/N of 55	25.5 sec which leads to visibility overrun	n. COS.ta.404797					
	0M/157 (6) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=10			102 Secs (102 Secs)	
7/FU	IVA S.sp.413		1577 A	2;			[==>]	
980)				FP-POS=3;				[1]
				SEGMENT=A				
2.35e6 is t	: Buffer-time for FUVA is 2 he number of events that eac ec is the count rate in FUVA,	35e6/8770 = 268 sec, which is larger th h buffer can record . per ETC calculation above	han exp time, so set	buffer time to exptime.				
4 G160	0M/162 (6) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=15			154 Secs (154 Secs)	
3/FU	IVA S.sp.413		1623 A	4;			[==>]	
984)				FP-POS=3; SEGMENT=A				[1]
Comments	: Buffer time is 345 sec=2.33	5,6/7635		SEGMENT-A				
where 763	5 is cts/sec in FUVA	100 < 80 which is the minimum exptin						
Cat buillan		COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=50			600 Secs (600 Secs)	
	0M/109 (6) GD71			0;			[==>]	
5 G130 6/FU	VB	008/10 1, 11112 1110, 1811	1096 A					
5 G130 6/FU (COS	IVB S.sp.418	000,101,11112 1110,12.1	1096 A	FP-POS=3;			11	[1]
5 G130 6/FU	IVB S.sp.418	00070 1, 122 110, 101	1096 A	FP-POS=3; SEGMENT=B			[>]	[1]
5 G130 6/FU (COS 698)	IVB S.sp.418 :: Buffer time = 2.35e6/656 =			SEGMENT=B			[/]	[1]
5 G136 6/FU (COS 698) Comments Set buffer- 6 G136	IVB S.sp.418 :: Buffer time = 2.35e6/656 = time = exptime - 100 sec = 5 DM/109 WAVE	= 3582 sec.		SEGMENT=B			140 Secs (140 Secs)	[1]
5 G136 6/FU (CO: 698) Comments Set buffer- 6 G136 6/FU	IVB S.sp.418 :: Buffer time = 2.35e6/656 = time = exptime - 100 sec = 5	= 3582 sec. 100 to maximize time on target (see Cy	20 IHB section 5.4.	SEGMENT=B				[1]



Proposal 13520.	- GD71 (31) .	- COS FUV	Spectroscopic	Sensitivity Monitoring
1 1000301 13320	- OD1 (31)			

Proposal 13520, GD71 (31), implementation Thu Aug 28 01:02:49 GMT 2014

Diagnostic Status: Warning Visit

Diagnostics

Scientific Instruments: S/C, COS/FUV

Special Requirements: SCHED 100%; BETWEEN 22-SEP-2014:00:00:00 AND 28-SEP-2014:00:00:00

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

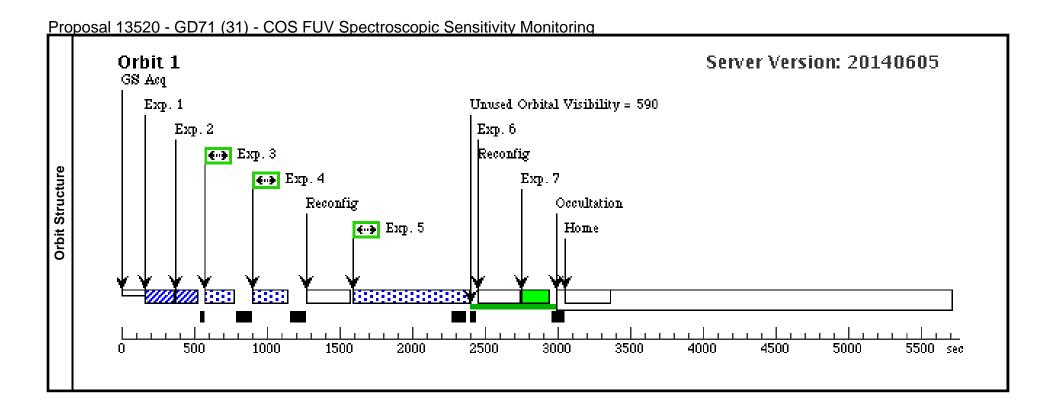
(GD71 (31)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

(ACQ/IM (31.001)) Warning (Form): SEGMENT=A is atypical for FUV ACQ/PEAKXD. See full description for details.

ts	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
g	(6)	GD71	RA: 05 52 27.6100 (88.1150417d)	Proper Motion RA: 85 mas/yr	V=13.06+/-0.01	Reference Frame: ICRS			
ā			Dec: +15 53 13.80 (15.88717d)	Proper Motion Dec: -174 mas/yr					
۱۶			Equinox: J2000	Epoch of Position: 2000					
×	Comments: Use sma RA, DEC amd PM as in proposal 12392 by Bohlin et al.								
证									

Proposal 13520 - GD71 (31) - COS FUV Spectroscopic Sensitivity Monitoring

#	Label Target (ETC Run)	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (6) GD71 (COS.sa.626 924)	COS/FUV, ACQ/PEAKXD, PSA	G160M 1623 A	SEGMENT=A			0.3 Secs (0.3 Secs) [==>]	[1]
Con Usir	~ = -/	105.5 sec which leads to visibility overrur	n. COS.ta.404797					
JUL Tim	28 2014: modified ACQ strategy e Required for Requested SNR in	for visits 29 and 31 Segment A only: 0.2617						
2	ACQ/IM (6) GD71 (COS.sa.626 923)	COS/FUV, ACQ/PEAKD, PSA	G160M 1623 A	NUM-POS=5; STEP-SIZE=0.9; CENTER=FLUX-W T-FLR;			0.2 Secs (0.2 Secs) $I = > J$	[1]
Con	nments: Exptime for S/N of 60 is 1	105.5 sec which leads to visibility overrur	1. COS ta 404797	SEGMENT=A				
Usir 3	ng 90 sec leads to S/N of 55 G160M/162 (6) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=15			154 Secs (154 Secs)	
5	(COS.sp.413 984)	COS/TOV, TIME INO, TOX	1623 A	4; FP-POS=3; SEGMENT=A			[==>]	[1]
whe	nments: Buffer time is 345 sec=2 re 7635 is cts/sec in FUVA buffer-time = exptime b/c exptime	35e6/7635 - 100 < 80 which is the minimum exptim	ne					
4	G160M/157 (6) GD71 7/FUVA (COS.sp.413 980)	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=10 2; FP-POS=3; SEGMENT=A			102 Secs (102 Secs) $I = > J$	[1]
2.35	nments: Buffer-time for FUVA is 2 e6 is the number of events that ec 0 cts/sec is the count rate in FUV		aan exp time, so set	buffer time to exptime.				
5	G130M/109 (6) GD71 6/FUVB (COS.sp.418 698)	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=50 0; FP-POS=3; SEGMENT=B			600 Secs (600 Secs) [==>]	[1]
	nments: Buffer time = 2.35e6/656 buffer-time = exptime - 100 sec =	= 3582 sec. 500 to maximize time on target (see Cy 2	20 IHR section 5.4.					
6	DARK	S/C, DATA, NONE	20 IIID section 3. 1.		QASISTATES CO FUV HVLOW HV OW		$\frac{1 \text{ Secs } (1 \text{ Secs})}{I = => J}$	[1]
Con		y schedule the SEG-B to SEG-A reconfig		<u> </u>				1
7	G130M/109 WAVE 6/FUVA W	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;			140 Secs (140 Secs)	



Proposal 13520, WD0308 - complete (02), completed Thu Aug 28 01:02:49 GMT 2014 Diagnostic Status: Warning

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

Special Requirements: SCHED 100%; BETWEEN 23-DEC-2013:00:00:00 AND 29-DEC-2013:00:00:00

Comments: George Chapman added Exposure 9

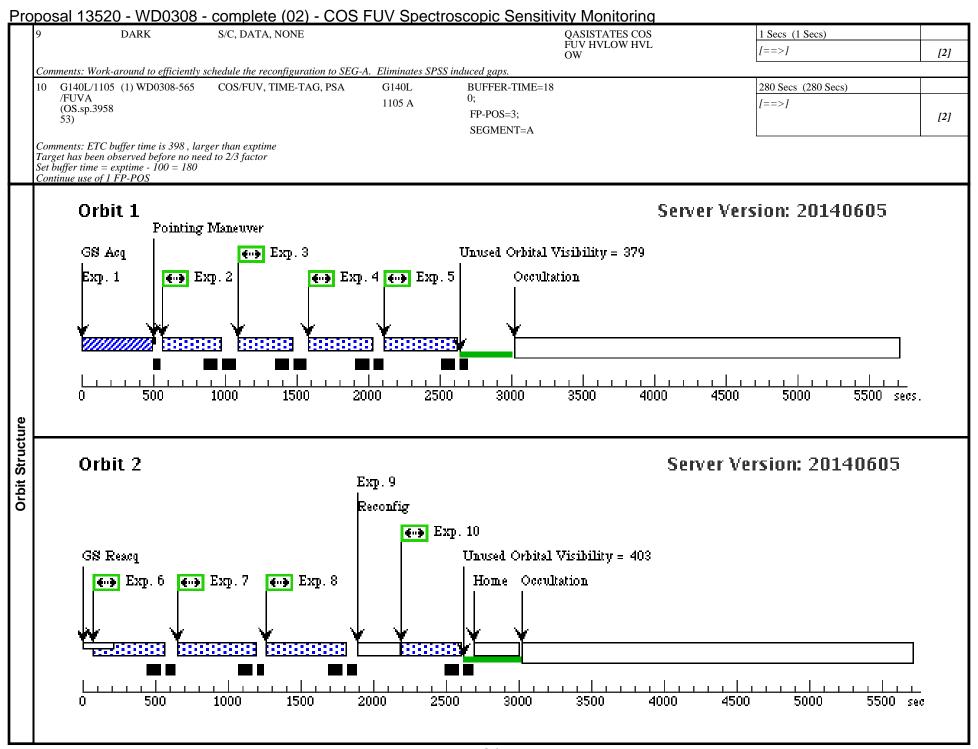
Diagnostics (WD0308 - complete (02)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

ts	#
rge	(1)
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ts	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	
ge	(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	
Tai			Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 0.0643 arcsec/yr			
g			Equinox: J2000	Epoch of Position: 2000			
Fixe	Comments: Coordinates from Charle's proposal						

Proposal 13520 - WD0308 - complete (02) - COS FUV Spectroscopic Sensitivity Monitoring

#	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)	
	(396029)							[==>]	[1]
2	G130M/122	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=1 6;	2		226 Secs (226 Secs)	
	(COS.sp.395 840)			1222 A	FP-POS=3			[==>]	[1]
bufj	nments: Buffer er-time = expti atinue use of 1 l	me - 100 sec to maxi	3 * ETC buffer time is 2/3*455 which mize time on target = 126	is larger than exptin	me. Set				
			eterson to confirm that there are no iss	ues using the 1222	central wavelength pri	or to Cycle 20			
3	G130M/129	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=1	4		244 Secs (244 Secs)	
	1 (COS.sp.395 841)			1291 A	4; FP-POS=3			[==>]	[1]
Sino		irger than exptime us	Target has been observed before and see buffer time = exptime -100 sec to ma						
4		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=2	1		312 Secs (312 Secs)	
	7 (COS.sp.395 843)			1327 A	2; FP-POS=3			[==>]	[1]
Sin	ce buffer time lo tinue use of 1 I G130M/105	irger than exptime u	Target has been observed before and see buffer time = exptime -100 sec to me COS/FUV, TIME-TAG, PSA	aximize time on targ	BUFFER-TIME=2	3		334 Secs (334 Secs)	
	5/FUVA (OS.sp.5241 17)			1055 A	4; FP-POS=3; SEGMENT=BOT	Н		[==>]	[1]
Tar Set	get has been ob	uffer time is larger th served before no nee xptime - 100 = 224 FP-POS							
6	G160M/157	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			290 Secs (290 Secs)	
	7 (395846)			1577 A	BUFFER-TIME=1	9		[==>]	[2]
Tar	get has been ob	uffer time is 632, larg served before no nee xptime - 100 = 190	ger than exptime ed to 2/3 factor						
7		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			400 Secs (400 Secs)	
	3 (395848)			1623 A	BUFFER-TIME=3	0		[==>]	[2]
Tar	get has been ob	ıffer time is 794, larş served before no nee xptime - 100 = 300	ger than exptime ed to 2/3 factor						
8		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=1	8		280 Secs (280 Secs)	
	(COS.sp.395 854)			1280 A	0; FP-POS=3			[==>]	[2]
Tar Set	get has been ob	uffer time is 479, larg sserved before no nee xptime - 100 = 180 FP-POS							



Thu Aug 28 01:02:50 GMT 2014 Proposal 13520, WD0308 - complete (04), completed

Diagnostic Status: Warning

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

Special Requirements: SCHED 100%; BETWEEN 17-FEB-2014:00:00:00 AND 23-FEB-2014:00:00:00

Comments: George Chapman added Exposure 9

(WD0308 - complete (04)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

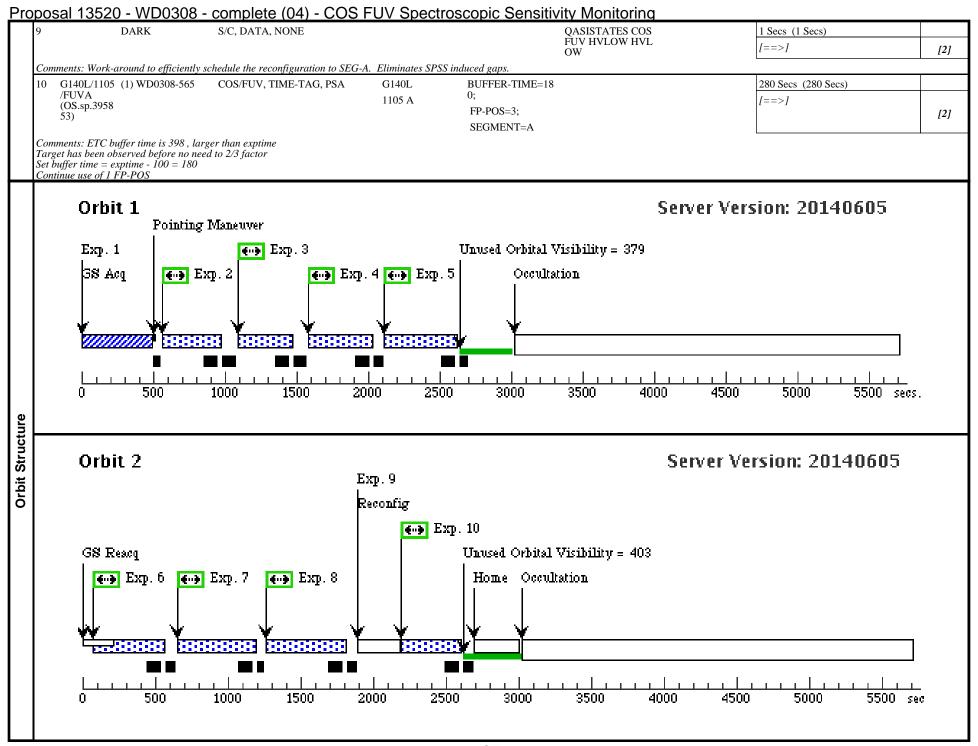
Diagnostics	(WD0308	8 - complete (04)) Warni	ing (Form): For
ts	#	Name	Target (
[argets	(1)	WD0308-565	RA: 03 0
필			Dec: -56
ixed Taı			Dec: -56 Equinox:

#	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		

25

Proposal 13520 - WD0308 - complete (04) - COS FUV Spectroscopic Sensitivity Monitoring

30M/122 (1) 30M/122 (1) 30M/122 (1) 30M/122 (1) 30M/122 (1) 30M/129 (1) 30M/129 (1) 30M/129 (1) 30M/132 (1) 30M/13	calculated as 2/3 100 sec to maxim. OS lty and Karla Pete WD0308-565 time is 330 sec. To than exptime use OS WD0308-565	COS/NUV, ACQ/IMAGE, BOA * ETC buffer time is 2/3*455 which ize time on target = 126 erson to confirm that there are no iss COS/FUV, TIME-TAG, PSA arget has been observed before and buffer time = exptime -100 sec to ma	sues using the 1222 G130M 1291 A so no need for 2/3 s.	central wavelength prior BUFFER-TIME=14 4; FP-POS=3 afety margin.	r to Cycle 20		45 Secs (45 Secs) [==>] 226 Secs (226 Secs) [==>] 244 Secs (244 Secs) [==>]	[1]
OS.sp.395	calculated as 2/3 100 sec to maxim. OS lty and Karla Pete WD0308-565 time is 330 sec. To than exptime use OS WD0308-565	* ETC buffer time is 2/3*455 which ize time on target = 126 erson to confirm that there are no iss COS/FUV, TIME-TAG, PSA arget has been observed before and buffer time = exptime -100 sec to me	1222 A is larger than exptingues using the 1222 G130M 1291 A so no need for 2/3 so aximize time on targ	6; FP-POS=3 me. Set central wavelength prior BUFFER-TIME=14 4; FP-POS=3 afety margin. get = 144 BUFFER-TIME=21	r to Cycle 20		226 Secs (226 Secs) [==>] 244 Secs (244 Secs)	[1]
OS.sp.395 OS.sp.395 OS.sp.395 or use of 1 FP-Pod with Alan Wed 30M/129 (1) OS.sp.395 1) outs: ETC buffer ffer time larger outs of 1 FP-Pod 30M/132 (1) OS.sp.395 OS.sp.395 OS.sp.395 OS.sp.395 OS.sp.395	calculated as 2/3 100 sec to maxim. OS lty and Karla Pete WD0308-565 time is 330 sec. To than exptime use OS WD0308-565	* ETC buffer time is 2/3*455 which ize time on target = 126 erson to confirm that there are no iss COS/FUV, TIME-TAG, PSA arget has been observed before and buffer time = exptime -100 sec to me	1222 A is larger than exptingues using the 1222 G130M 1291 A so no need for 2/3 so aximize time on targ	6; FP-POS=3 me. Set central wavelength prior BUFFER-TIME=14 4; FP-POS=3 afety margin. get = 144 BUFFER-TIME=21	r to Cycle 20		[==>] 244 Secs (244 Secs)	
ats: Buffer time the exptime - e use of 1 FP-Pi d with Alan Wei 30M/129 (1) OS.sp.395 1) this: ETC buffer ffer time larger the use of 1 FP-Pi 30M/132 (1) OS.sp.395 3) this: ETC buffer ffer time larger	100 sec to maximum OS lty and Karla Pete WD0308-565 time is 330 sec. To than exptime use OS WD0308-565	ize time on target = 126 erson to confirm that there are no iss COS/FUV, TIME-TAG, PSA arget has been observed before and buffer time = exptime -100 sec to ma	is larger than exptingues using the 1222 G130M 1291 A so no need for 2/3 so aximize time on targ	me. Set central wavelength prior BUFFER-TIME=14 4; FP-POS=3 afety margin. get = 144 BUFFER-TIME=21	r to Cycle 20		244 Secs (244 Secs)	
me = exptime - e use of 1 FP-Pi d with Alan Wei 30M/129 (1) OS.sp.395 1) ats: ETC buffer ffer time larger e use of 1 FP-Pi 30M/132 (1) OS.sp.395 3) ats: ETC buffer ffer time larger	100 sec to maximum OS lty and Karla Pete WD0308-565 time is 330 sec. To than exptime use OS WD0308-565	ize time on target = 126 erson to confirm that there are no iss COS/FUV, TIME-TAG, PSA arget has been observed before and buffer time = exptime -100 sec to ma	G130M 1291 A so no need for 2/3 s. aximize time on targ	central wavelength prior BUFFER-TIME=14 4; FP-POS=3 afety margin. get = 144 BUFFER-TIME=21	r to Cycle 20			[1]
d with Alan We. 30M/129 (1) OS.sp.395 1) uts: ETC buffer ffer time larger e use of 1 FP-P. 30M/132 (1) OS.sp.395 3) uts: ETC buffer ffer time larger	time is 330 sec. To than exptime use OS WD0308-565 time is 330 sec. To than exptime use OS WD0308-565	COS/FUV, TIME-TAG, PSA arget has been observed before and buffer time = exptime -100 sec to me	G130M 1291 A so no need for 2/3 s. aximize time on targ G130M	BUFFER-TIME=14 4; FP-POS=3 afety margin. get = 144 BUFFER-TIME=21	r to Cycle 20			[1]
30M/129 (1) OS.sp.395 (1) uts: ETC buffer ffer time larger e use of 1 FP-P 30M/132 (1) OS.sp.395 (3) uts: ETC buffer ffer time larger	time is 330 sec. To than exptime use OS WD0308-565 time is 330 sec. To	COS/FUV, TIME-TAG, PSA arget has been observed before and buffer time = exptime -100 sec to me	G130M 1291 A so no need for 2/3 s. aximize time on targ G130M	BUFFER-TIME=14 4; FP-POS=3 afety margin. get = 144 BUFFER-TIME=21				[1]
ts: ETC buffer ffer time larger e use of I FP-P 30M/132 (1) OS.sp.395 3) tts: ETC buffer ffer time larger	than exptime use OS WD0308-565 time is 330 sec. To	buffer time = exptime -100 sec to ma	so no need for 2/3 s aximize time on targ G130M	FP-POS=3 afety margin. get = 144 BUFFER-TIME=21			[==>]	[1]
ffer time larger e use of I FP-P 30M/132 (1) OS.sp.395 3) uts: ETC buffer ffer time larger	than exptime use OS WD0308-565 time is 330 sec. To	buffer time = exptime -100 sec to ma	G130M	BUFFER-TIME=21				
OS.sp.395 3) ats: ETC buffer ffer time larger	time is 330 sec. To	COS/FUV, TIME-TAG, PSA						
3) ats: ETC buffer ffer time larger			1327 A	7)•			312 Secs (312 Secs)	
ffer time lärger				FP-POS=3			[==>]	[1]
	os	buffer time = exptime -100 sec to ma	aximize time on targ	get = 212			2019 (019	
30M/105 (1) ' FUVA	WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=23 4;			334 Secs (334 Secs)	
S.sp.5241			1055 A	FP-POS=3; SEGMENT=BOTH			[==>]	[1]
				220.12.11				
60M/157 (1)		COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			290 Secs (290 Secs)	
95846)			1577 A	BUFFER-TIME=19)		[==>]	[2]
as been observe	ed before no need	r than exptime to 2/3 factor		v				
60M/162 (1)	WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			400 Secs (400 Secs)	
95848)			1623 A	BUFFER-TIME=30)		[==>]	[2]
nts: ETC buffer as been observe r time = exptim	time is 794, large ed before no need 1e - 100 = 300	r than exptime to 2/3 factor						
	WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=18			280 Secs (280 Secs)	
OS.sp.395 4)			1280 A				[==>]	[2]
	ed before no need 1e - 100 = 180			-				
6005	s: ETC buffer s been observ time = exptin 60M/162 (1) 5848) s: ETC buffer s been observ time = exptin 40L/1230 (1) S.sp.395) s: ETC buffer s been observ time = exptin	s: ETC buffer time is 632, large s been observed before no need time = exptime - 100 = 190 (0M/162 (1) WD0308-565 (848) s: ETC buffer time is 794, large s been observed before no need time = exptime - 100 = 300 (0L/1230 (1) WD0308-565 (8.sp.395)	s: ETC buffer time is 632, larger than exptime s been observed before no need to 2/3 factor time = exptime - 100 = 190 60M/162 (1) WD0308-565 COS/FUV, TIME-TAG, PSA 5848) s: ETC buffer time is 794, larger than exptime s been observed before no need to 2/3 factor time = exptime - 100 = 300 60L/1230 (1) WD0308-565 COS/FUV, TIME-TAG, PSA 6S.sp.395 6s: ETC buffer time is 479, larger than exptime s been observed before no need to 2/3 factor time = exptime - 100 = 180	s: ETC buffer time is 632, larger than exptime s been observed before no need to 2/3 factor time = exptime - 100 = 190 60M/162 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G160M 6848) s: ETC buffer time is 794, larger than exptime s been observed before no need to 2/3 factor time = exptime - 100 = 300 10L/1230 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G140L 1S.sp.395 s: ETC buffer time is 479, larger than exptime s been observed before no need to 2/3 factor time = exptime - 100 = 180	s: ETC buffer time is 632, larger than exptime s been observed before no need to 2/3 factor time = exptime - 100 = 190 ioM/162 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G160M FP-POS=3; 6848) s: ETC buffer time is 794, larger than exptime s been observed before no need to 2/3 factor time = exptime - 100 = 300 ioL/1230 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G140L S.S.S.P.395 is: ETC buffer time is 479, larger than exptime s been observed before no need to 2/3 factor time = exptime - 100 = 180	s: ETC buffer time is 632, larger than exptime s been observed before no need to 2/3 factor time = exptime - 100 = 190 ioM/162 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G160M FP-POS=3; 1623 A BUFFER-TIME=30 0 is: ETC buffer time is 794, larger than exptime s been observed before no need to 2/3 factor time = exptime - 100 = 300 ioL/1230 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G140L BUFFER-TIME=18 O; FP-POS=3 is: ETC buffer time is 479, larger than exptime s been observed before no need to 2/3 factor time = exptime - 100 = 180	s: ETC buffer time is 632, larger than exptime so been observed before no need to 2/3 factor time = exptime - 100 = 190 50M/162 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G160M FP-POS=3; 5848) 585 ETC buffer time is 794, larger than exptime so been observed before no need to 2/3 factor time = exptime - 100 = 300 50L/1230 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G140L BUFFER-TIME=18 O; 58 SETC buffer time is 479, larger than exptime so been observed before no need to 2/3 factor time = exptime - 100 = 180	s: ETC buffer time is 632, larger than exptime s been observed before no need to 2/3 factor time = exptime - 100 = 190 100M/162 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G160M FP-POS=3; 1623 A BUFFER-TIME=30 1624 BUFFER-TIME=18 1625 BUFFER-TIME=18 1626 SCS (280 Secs) 1627 BUFFER-TIME=18 1628 SCS (280 Secs) 1628 A BUFFER-TIME=18 1629 BUFFER-TIME=18 1620 BUFFER-TIM



Thu Aug 28 01:02:50 GMT 2014 Proposal 13520, WD0308 - complete (06), completed Diagnostic Status: Warning

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

Special Requirements: SCHED 100%; BETWEEN 21-APR-2014:00:00:00 AND 27-APR-2014:00:00:00

Comments: George Chapman added Exposure 9

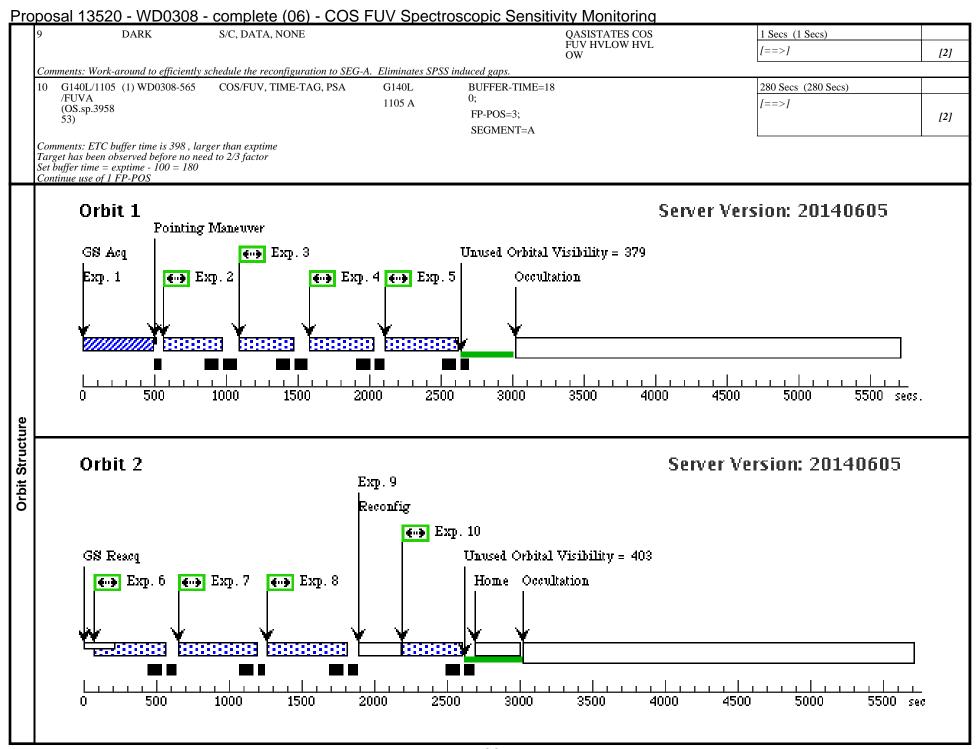
Diagnostics (WD0308 - complete (06)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

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ts	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
ge	(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
<u>a</u>			Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 0.0643 arcsec/yr		
ত			Equinox: J2000	Epoch of Position: 2000		
Comments: Coordinates from Charle's proposal						

Proposal 13520 - WD0308 - complete (06) - COS FUV Spectroscopic Sensitivity Monitoring

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (396029)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	
_		(1) W/D0200 565	COCKETTY TIME TAC DOA	C120M	DUEEED TIME 1			[==>]	[1]
2	G130M/122 2	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=1 6;	2		226 Secs (226 Secs) [==>]	
	(COS.sp.395 840)			1222 A	FP-POS=3			[==>]	[1]
			3 * ETC buffer time is 2/3*455 which mize time on target = 126	is larger than exptii	me. Set				
Co I c	ntinue use of 1 I hecked with Alai	P-POS Welty and Karla Pe	eterson to confirm that there are no iss	ues using the 1222	central wavelength pri	or to Cycle 20			
3		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=1	~		244 Secs (244 Secs)	
	1 (COS.sp.395 841)			1291 A	4; FP-POS=3			[==>]	[1]
Sir	mments: ETC bi	uffer time is 330 sec. Trger than exptime us TP-POS			ļ				
4	G130M/132	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=2	1		312 Secs (312 Secs)	
	7 (COS.sp.395 843)			1327 A	2; FP-POS=3			[==>]	[1]
Sir	mments: ETC bi ce buffer time lo ntinue use of 1 l	rger 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 targ	rafety margin. get = 212				
5 S		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=2	3		334 Secs (334 Secs)	
Exposures 5	5/FUVA (OS.sp.5241 17)			1055 A	4; FP-POS=3; SEGMENT=BOT	Н		[==>]	[1]
Ta Se	rget has been ob	offer time is larger th served before no nee optime - 100 = 224 FP-POS							
6		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			290 Secs (290 Secs)	
	7 (395846)			1577 A	BUFFER-TIME=1	9		[==>]	[2]
Ta	rget has been ob	uffer time is 632, larg served before no nee aptime - 100 = 190	ger than exptime ed to 2/3 factor		v				
7		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			400 Secs (400 Secs)	
	3 (395848)			1623 A	BUFFER-TIME=3	30		[==>]	[2]
Ta	rget has been ob	uffer time is 794, larg served before no nee optime - 100 = 300	ger than exptime nd to 2/3 factor						<u>, </u>
8		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=1	8		280 Secs (280 Secs)	
	(COS.sp.395 854)			1280 A	0; FP-POS=3			[==>]	[2]
Ta Sei	rget has been ob	offer time is 479, larg served before no nee eptime - 100 = 180 FP-POS							



Proposal 13520, WD0308 - complete (08), completed
Diagnostic Status: Warning

Thu Aug 28 01:02:50 GMT 2014

Di:

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

Special Requirements: SCHED 100%; BETWEEN 23-JUN-2014:00:00:00 AND 30-JUN-2014:00:00:00

Comments: George Chapman added Exposure 9

(WD0308 - complete (08)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

ts	#	Name	Target C
ge	(1)	WD0308-565	RA: 03 0
a			Dec: -56
٦			Equinox:
×	Comme	ents: Coordinates from Cl	harle's proposal
证			

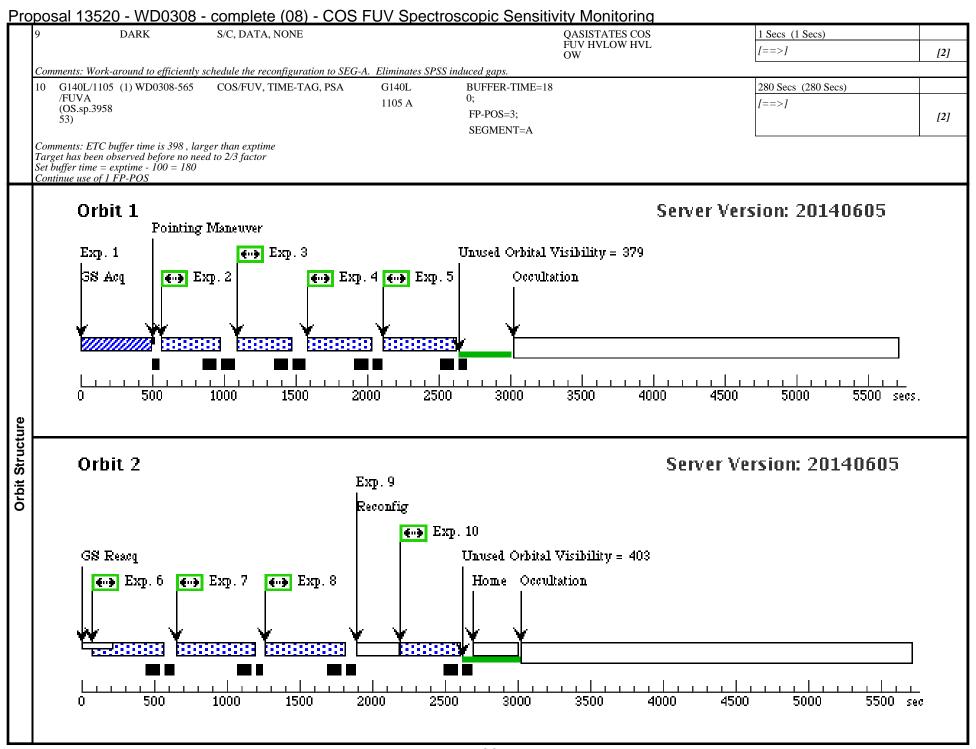
Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 0.018141 sec of time/yr	V=14.07+/-0.02	Reference Frame: ICRS

Dec: -56 23 49.41 (-56.39706d) Proper Motion Dec: 0.0643 arcsec/yr

Equinox: J2000 Epoch of Position: 2000

Proposal 13520 - WD0308 - complete (08) - COS FUV Spectroscopic Sensitivity Monitoring

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (396029)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs)	<i></i>
2		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=1	2		[==>] 226 Secs (226 Secs)	[1]
ا ا	2	(1) WD0300 303	COS/10 V, TIME 1710, 1571	1222 A	6;	<u>~</u>		[==>]	
	(COS.sp.395 840)			1222 11	FP-POS=3			[J	[1]
			3 * ETC buffer time is 2/3*455 which mize time on target = 126	is larger than exptir	ne. Set				
	ntinue use of 1 I hecked with Ala		eterson to confirm that there are no iss	sues using the 1222	central wavelength pri	or to Cycle 20			
3		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=1			244 Secs (244 Secs)	
	1 (COS.sp.395 841)			1291 A	4; FP-POS=3			[==>]	[1]
Sir		rger than exptime us	Target has been observed before and see buffer time = exptime -100 sec to m						
4	G130M/132	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=2	1		312 Secs (312 Secs)	
	(COS.sp.395 843)			1327 A	2; FP-POS=3			[==>]	[1]
Sir	nce buffer time lo ontinue use of 1 1	rger than exptime us	Target has been observed before and see buffer time = exptime -100 sec to ma			3		334 Secs (334 Secs)	
ğ	5/FUVA	(1) 11 20300 303	COB/I C V, IIME IIIG, IBII	1055 A	4;	3		[==>]	
Ä	(OS.sp.5241 17)			1000 11	FP-POS=3; SEGMENT=BOT	Н		[>]	[1]
Ta Se	rget has been ob	offer time is larger th served before no nee optime - 100 = 224 FP-POS							•
6		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			290 Secs (290 Secs)	
	7 (395846)			1577 A	BUFFER-TIME=	19		[==>]	[2]
Ta	rget has been ob	uffer time is 632, larg served before no nee optime - 100 = 190	ger than exptime d to 2/3 factor		Ü				
7		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			400 Secs (400 Secs)	
	3 (395848)			1623 A	BUFFER-TIME=	30		[==>]	[2]
Co Ta Sei	omments: ETC bo rget has been ob t buffer time = e.	uffer time is 794, larg served before no nee optime - 100 = 300	ger than exptime d to 2/3 factor						
8		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=1	8		280 Secs (280 Secs)	
	(COS.sp.395 854)			1280 A	0; FP-POS=3			[==>]	[2]
Ta Sei	rget has been ob	offer time is 479, larg served before no nee optime - 100 = 180 FP-POS							•



Proposal 13520, WD0308 - complete (10), completed
Diagnostic Status: Warning

Thu Aug 28 01:02:50 GMT 2014

Di

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

Special Requirements: SCHED 100%; BETWEEN 18-AUG-2014:00:00:00 AND 24-AUG-2014:00:00:00

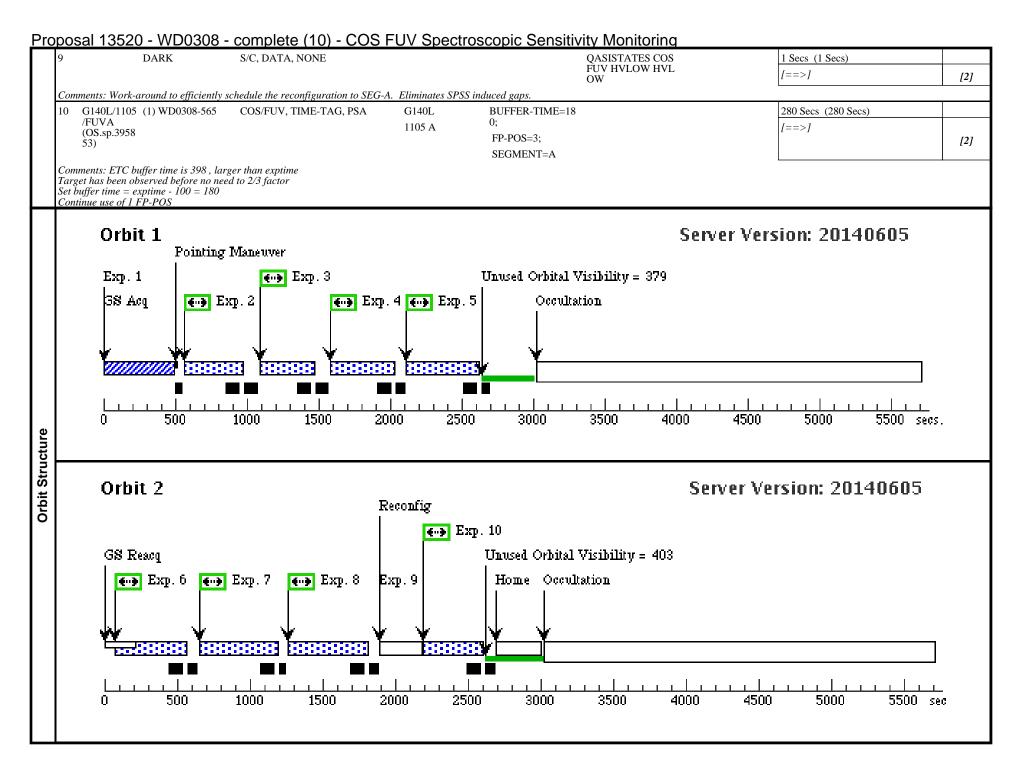
Comments: George Chapman added Exposure 9

(WD0308 - complete (10)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

ı	_						
I	ts	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
ı	Эб.	(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
ı	Tai			Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 0.0643 arcsec/yr		
ı	g			Equinox: J2000	Epoch of Position: 2000		
Comments: Coordinates from Charle's proposal							
ı	Ī						

Proposal 13520 - WD0308 - complete (10) - COS FUV Spectroscopic Sensitivity Monitoring

2 (COS.sp.395 840) mments: Buffer i	(1) WD0308-565 (1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA					1
G130M/122 2 (COS.sp.395 840) mments: Buffer	(1) WD0308-565						45 Secs (45 Secs)	F17
2 (COS.sp.395 840) mments: Buffer i	(1) 1120300 303	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=12)		[==>] 226 Secs (226 Secs)	[1]
840) mments: Buffer i		COD/1 C 1, 11ML-1AG, 15A	1222 A	6;	-		[==>]	
				FP-POS=3			,	[1]
,		3 * ETC buffer time is 2/3*455 which mize time on target = 126	is larger than exptin	me. Set				
		eterson to confirm that there are no is:	sues using the 1222	central wavelength pric	or to Cycle 20			
		COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=14			244 Secs (244 Secs)	
1 (COS.sp.395 841)			1291 A	4; FP-POS=3			[==>]	[1]
ce buffer time la	rger than exptime us							
G130M/132	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M		1		312 Secs (312 Secs)	
7 (COS.sp.395 843)			1327 A	2; FP-POS=3			[==>]	[1]
ntinue use of 1 I G130M/105	TP-POS	se buffer time = exptime -100 sec to m COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=2:	3		334 Secs (334 Secs)	
(OS.sp.5241 17)			1055 A	FP-POS=3;	Н		[==>]	[1]
rget has been ob buffer time = ex	served before no nee ptime - 100 = 224							
G160M/157	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			290 Secs (290 Secs)	
7 (395846)			1577 A	BUFFER-TIME=1	9		[==>]	[2]
rget has been ob	served before no nee	ger than exptime ed to 2/3 factor		-				
	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			400 Secs (400 Secs)	
3 (395848)			1623 A	BUFFER-TIME=3	0		[==>]	[2]
mments: ETC bi rget has been ob buffer time = ex	uffer time is 794, larg served before no nee optime - 100 = 300	ger than exptime ed to 2/3 factor		-				·
	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L		3		280 Secs (280 Secs)	
(COS.sp.395 854)			1280 A	0; FP-POS=3			[==>]	[2]
rget has been ob buffer time = ex	served before no nee ptime - 100 = 180							•
	necked with Alan G130M/129 1 (COS.sp.395 841) mments: ETC bu ce buffer time la ntinue use of 1 F G130M/132 7 (COS.sp.395 843) mments: ETC bu ce buffer time la ntinue use of 1 F G130M/105 5/FUVA (OS.sp.5241 17) mments: ETC bu reget has been ob buffer time = ex ntinue use of 1 F G160M/157 7 (395846) mments: ETC bu reget has been ob buffer time = ex G160M/162 3 (395848) mments: ETC bu reget has been ob buffer time = ex G140L/1230 (COS.sp.395 854) mments: ETC bu reget has been ob buffer time = ex G140L/1230 (COS.sp.395 854)	G130M/129 (1) WD0308-565 1 (COS.sp.395 841) mments: ETC buffer time is 330 sec. ce buffer time larger than exptime us ntinue use of 1 FP-POS G130M/132 (1) WD0308-565 7 (COS.sp.395 843) mments: ETC buffer time is 330 sec. ce buffer time larger than exptime us ntinue use of 1 FP-POS G130M/105 (1) WD0308-565 5/FUVA (OS.sp.5241 17) mments: ETC buffer time is larger th reget has been observed before no nee buffer time = exptime - 100 = 224 ntinue use of 1 FP-POS G160M/157 (1) WD0308-565 7 (395846) mments: ETC buffer time is 632, larger thas been observed before no nee buffer time = exptime - 100 = 190 G160M/162 (1) WD0308-565 3 (395848) mments: ETC buffer time is 794, larger thas been observed before no nee buffer time = exptime - 100 = 300 G140L/1230 (1) WD0308-565 (COS.sp.395 854) mments: ETC buffer time is 479, larger thas ETC buffer time is 479, larger time is time is 47	G130M/129 (1) WD0308-565 COS/FUV, TIME-TAG, PSA (COS.sp.395 841) mments: ETC buffer time is 330 sec. Target has been observed before and ce buffer time larger than exptime use buffer time = exptime -100 sec to m minue use of 1 FP-POS G130M/132 (1) WD0308-565 COS/FUV, TIME-TAG, PSA 7 (COS.sp.395 843) mments: ETC buffer time is 330 sec. Target has been observed before and ce buffer time larger than exptime use buffer time = exptime -100 sec to m minue use of 1 FP-POS G130M/105 (1) WD0308-565 COS/FUV, TIME-TAG, PSA 5/FUVA (OS.sp.5241 17) mments: ETC buffer time is larger than exptime get has been observed before no need to 2/3 factor buffer time = exptime - 100 = 224 minue use of 1 FP-POS G160M/157 (1) WD0308-565 COS/FUV, TIME-TAG, PSA 7 (395846) mments: ETC buffer time is 632, larger than exptime get has been observed before no need to 2/3 factor buffer time = exptime - 100 = 190 G160M/162 (1) WD0308-565 COS/FUV, TIME-TAG, PSA 3 (395848) mments: ETC buffer time is 794, larger than exptime get has been observed before no need to 2/3 factor buffer time = exptime - 100 = 300 G140L/1230 (1) WD0308-565 COS/FUV, TIME-TAG, PSA (COS.sp.395 854) mments: ETC buffer time is 794, larger than exptime get has been observed before no need to 2/3 factor buffer time = exptime - 100 = 300 G140L/1230 (1) WD0308-565 COS/FUV, TIME-TAG, PSA (COS.sp.395 854)	G130M/129 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M 1 (COS.sp.395 G150M) 1291 A (COS.sp.395 G150M) 1327 A (COS.sp.395 G130M/132 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M 1327 A (COS.sp.395 G150M) 1328 A (COS.sp.395 G150M)	GI30M/129 (1) WD0308-565 COS/FUV, TIME-TAG, PSA GI30M BUFFER-TIME=1-1 (COS.sp. 395 Hand Peterson to confirm that there are no issues using the 1222 central wavelength price (COS.sp. 395 GI30M/129 (1) WD0308-565 COS/FUV, TIME-TAG, PSA GI30M BUFFER-TIME=1-1 (COS.sp. 395 Hand Proposed	G130M/129 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=14 1 (COS.sp.395 FP-POS=3 S41) G130M/129 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=14 1 (COS.sp.395 FP-POS=3 S41) G130M/129 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=14 (COS.sp.395 S41) G130M/132 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=21 (COS.sp.395 S43) G130M/132 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=21 (COS.sp.395 S43) G130M/103 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=21 (COS.sp.395 S43) G130M/103 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=21 (COS.sp.395 S43) G130M/105 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=23 (COS.sp.395 S43) G130M/105 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=23 (COS.sp.395 S43) G130M/105 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=23 (COS.sp.395 S43) G130M/105 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G160M FP-POS=3; SEGMENT=BOTH (COS.sp.395 S44) G130M/105 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G160M FP-POS=3; G160M/157 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G160M FP-POS=3; G160M/167 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G160M FP-POS=3; G160M/162 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G140L BUFFER-TIME=18 (COS.sp.395 S43) G140U-1230 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G140L BUFFER-TIME=18 (COS.sp.395 S44) G140U-1230 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G140L BUFFER-TIME=18 (COS.sp.395 S44) G140U-1230 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G140L BUFFER-TIME=18 (COS.sp.395 S44) G140U-1230 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G140L BUFFER-TIME=18 (COS.sp.395 S44) G140U-1230 (1) WD0308-565 COS/FUV, TIME-TAG,	sucked with Alan Welty and Karda Peterson to confirm that there are no issues using the 1222 central wavelength prior to Cycle 20 [G130M/129 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=14 [COS sp.395 FP-POS=3 MINIMUME use of J EP-POS [G150M/132 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=21 [COS sp.395 FP-POS=3 [G150M/132 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=21 [COS sp.395 FP-POS=3 [G150M/132 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=21 [COS sp.395 FP-POS=3 [G150M/132 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=21 [COS sp.395 FP-POS=3 [G150M/137 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=23 [G150M/137 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G160M FP-POS=3; [G160M/157 (1) WD0308-565 COS/FUV, TIME-TAG, PSA G160M FP-POS=3; [G160M/162 (1) WD0308-565 COS/FUV	



Proposal 13520, WD0308 - complete (12), implementation

Thu Aug 28 01:02:50 GMT 2014

Diagnostic Status: Warning

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

Special Requirements: SCHED 100%; BETWEEN 22-SEP-2014:00:00:00 AND 28-SEP-2014:00:00:00

Comments: George Chapman added Exposure 9

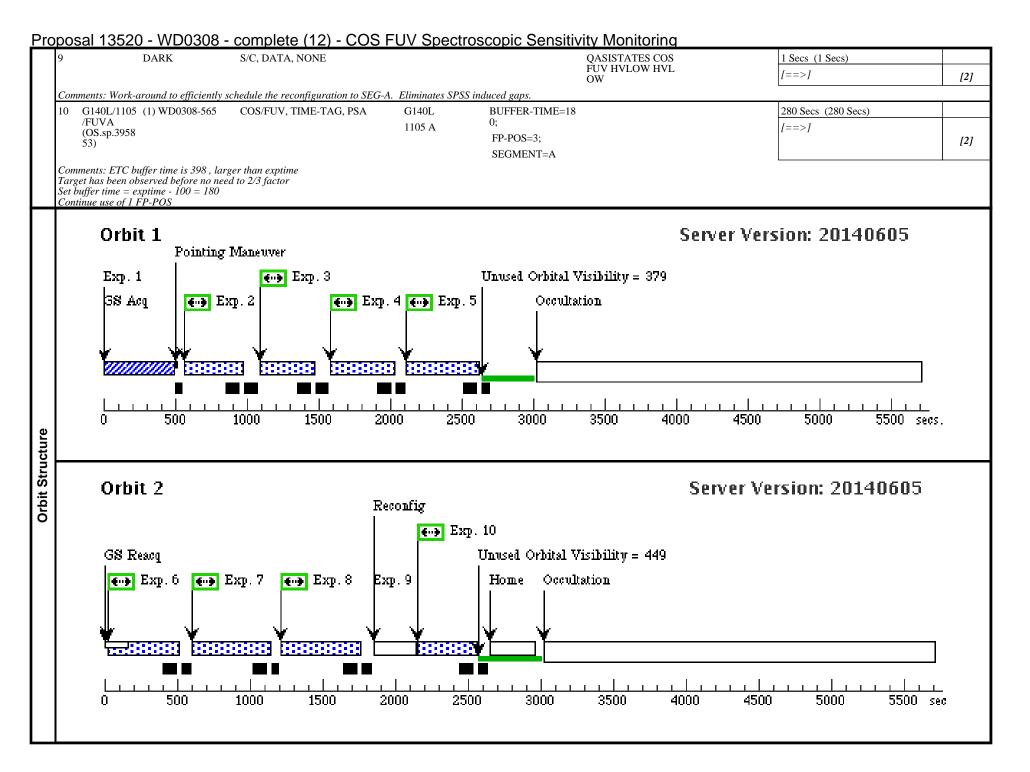
(WD0308 - complete (12)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

ts	#
Farget	(1)
. pəx	Cor

	# Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
8	(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
3		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 0.0643 arcsec/yr		
5		Equinox: J2000	Epoch of Position: 2000		
7	Comments: Coordinates from Charle	s proposal			

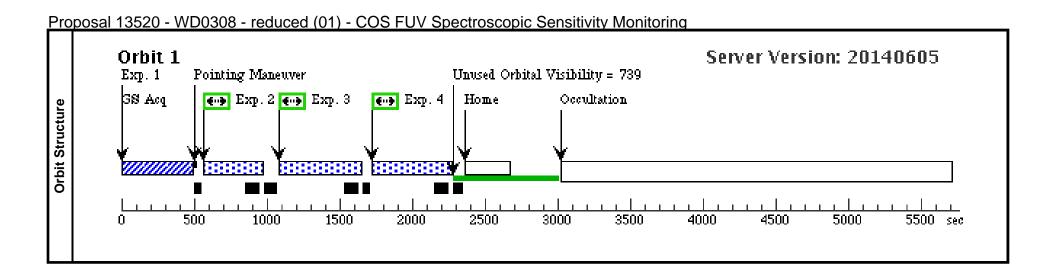
Proposal 13520 - WD0308 - complete (12) - COS FUV Spectroscopic Sensitivity Monitoring

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (396029)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA		GS ACQ SCENARI O SINGLE		45 Secs (45 Secs)	
_		(1) WD0200 565	COC/EIN TIME TAC DOA	C120M	DUEEED TIME 12	O DIL TOLLE		[==>]	[1]
2	G130M/122 2	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=12 6;			226 Secs (226 Secs)	
	(COS.sp.395 840)			1222 A	FP-POS=3			[==>]	[1]
bи	ffer-time = expti	me - 100 sec to maxii	3 * ETC buffer time is 2/3*455 which mize time on target = 126	is larger than exptii	ne. Set				
Co I c	ntinue use of 1 I hecked with Alai	P-POS 1 Welty and Karla Pe	eterson to confirm that there are no is:	sues using the 1222	central wavelength prio	to Cycle 20			
3		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=14	•		244 Secs (244 Secs)	
	1 (COS.sp.395 841)			1291 A	4; FP-POS=3			[==>]	[1]
Sir		rger than exptime us	Target has been observed before and se buffer time = exptime -100 sec to m						
4	G130M/132	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=21			312 Secs (312 Secs)	
	7 (COS.sp.395 843)			1327 A	2; FP-POS=3			[==>]	[1]
တ္သ	ntinue use of 1 I		se buffer time = exptime -100 sec to m COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=23 4; FP-POS=3;			334 Secs (334 Secs) [==>]	[1]
Co Ta Sei	mments: ETC bi rget has been ob	uffer time is larger th served before no nee optime - 100 = 224 PP-POS			SEGMENT=BOTH				
6	G160M/157	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			290 Secs (290 Secs)	
	(395846)			1577 A	BUFFER-TIME=19 0	•		[==>]	[2]
Ta	rget has been ob	iffer time is 632, larg served before no nee optime - 100 = 190	er than exptime d to 2/3 factor						
7		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			400 Secs (400 Secs)	
	3 (395848)			1623 A	BUFFER-TIME=30	1		[==>]	[2]
Co Ta Sei	mments: ETC bi rget has been ob buffer time = es	uffer time is 794, larg served before no nee optime - 100 = 300	ger than exptime d to 2/3 factor		-				<u>'</u>
8		(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=18			280 Secs (280 Secs)	
	(COS.sp.395 854)			1280 A	0; FP-POS=3			[==>]	[2]
Ta Sei	rget has been ob	offer time is 479, larg served before no nee optime - 100 = 180 FP-POS							•

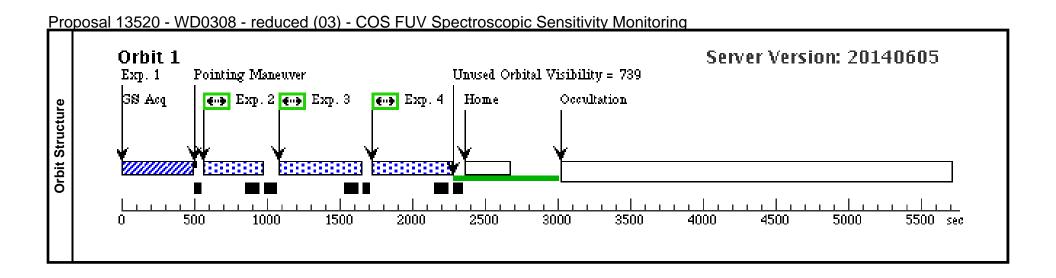


Pro	pposal 13520 - WD0308	- reduced (01) - COS F	UV Spectros	scopic Sensitivi	tv Monitor	ina		
	Proposal 13520, WD0308 - reduced					•	Thu Aug 28 01:02:50	GMT 2014
Visit	Diagnostic Status: Warning	· · · · · ·						
ΙŜ	Scientific Instruments: COS/NUV, CO	OS/FUV						
	Special Requirements: SCHED 100%;	BETWEEN 18-NOV-2013:00:00:00 A	AND 24-NOV-2013	:00:00:00				
Diagnostics	(WD0308 - reduced (01)) Warning (Fo	orm): For the best data quality, it is stro	ngly recommended	that all four FP-POS pos	itions be used wh	nen observing at a give	n COS CENWAVE setting.	
ts	# Name	Target Coordinates	Targ.	Coord. Corrections		Fluxes	Miscellaneous	
Targets	(1) WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper	Motion RA: 0.018141 se	ec of time/yr	V=14.07+/-0.02	Reference Frame: ICRS	
<u>a</u>		Dec: -56 23 49.41 (-56.39706d)	Proper	Motion Dec: 0.0643 arc	sec/yr			
		Equinox: J2000	Epoch	of Position: 2000				
Fixed	Comments: Coordinates from Charle's	s proposal						
	# Label Target (ETC Run)	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
ı	1 ACQ/IM (1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA		GS ACQ SCEN	NARI	45 Secs (45 Secs)	
ı	(396029)				O BASE1B3		[==>]	[1]
ı	2 G130M/129 (1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=14			244 Secs (244 Secs)	
	1 (COS.sp.395 841)		1291 A	4; FP-POS=3			[==>]	[1]
res	Comments: ETC buffer time is 330 sec Since buffer time larger than exptime t Continue use of 1 FP-POS	. 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. get = 144				•
l s	3 G160M/162 (1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			400 Secs (400 Secs)	
Exposures	3 (395848)		1623 A	BUFFER-TIME=30 0			[==>]	[1]
"	Comments: ETC buffer time is 794, lar Target has been observed before no ne Set buffer time = exptime - 100 = 300	rger than exptime eed to 2/3 factor						
1	4 G140L/1230 (1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=18			280 Secs (280 Secs)	
	(COS.sp.395 854)		1280 A	0;			I ==> J	[1]
1	35 1)			FP-POS=3				[+]

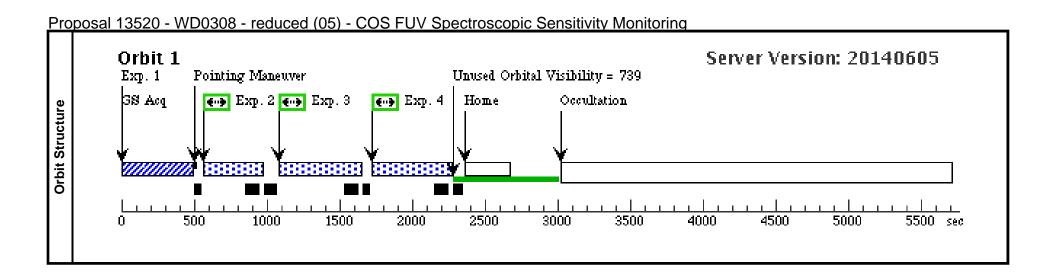
40



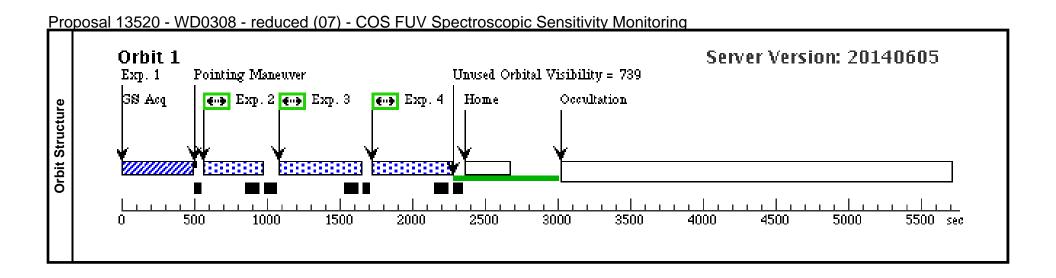
	ogo	sal 13520 - WD0308	3 - reduced (03) - COS F	UV Spectros	scopic Sensitivi	ity Monito	ring		
	Pro	posal 13520, WD0308 - reduced	d (03), completed					Thu Aug 28 01:02:50	GMT 2014
Visit	Dia	gnostic Status: Warning							
	Scie	entific Instruments: COS/NUV, C	COS/FUV						
	Spe	cial Requirements: SCHED 100%	6; BETWEEN 20-JAN-2014:00:00:00 A	ND 26-JAN-2014:0	00:00:00				
Diagnostics	(WI	D0308 - reduced (03)) Warning (I	Form): For the best data quality, it is stro	ngly recommended	that all four FP-POS pos	itions be used w	hen observing at a giver	n COS CENWAVE setting.	
ts	#	Name	Target Coordinates	Targ.	Coord. Corrections		Fluxes	Miscellaneous	
Targets	(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper	r Motion RA: 0.018141 s	ec of time/yr	V=14.07+/-0.02	Reference Frame: ICRS	
<u>a</u>			Dec: -56 23 49.41 (-56.39706d)	Proper	r Motion Dec: 0.0643 arc	:sec/yr			
۵ ا			Equinox: J2000	Epoch	of Position: 2000				
Fixed	Con	nments: Coordinates from Charle	e's proposal						
	#	Label Target (ETC Run)	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)	
		(396029)						[==>]	[1]
	2	G130M/129 (1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=14			244 Secs (244 Secs)	
		1 (COS.sp.395 841)		1291 A	4; FP-POS=3			[==>]	[1]
res	Sinc	nments: ETC buffer time is 330 se ce buffer time larger than exptime ntinue use of 1 FP-POS	ec. Target has been observed before and e use buffer time = exptime -100 sec to m	so no need for 2/3 s aximize time on tar	safety margin. get = 144				
ns.	3	G160M/162 (1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			400 Secs (400 Secs)	
Exposure		3 (395848)		1623 A	BUFFER-TIME=30	,		[==>]	[1]
	Con	nments: ETC buffer time is 794, le get has been observed before no t	need to 2/3 factor						
	Set	buffer time = $exptime - 100 = 300$	<u> </u>						
	Set 4	G140L/1230 (1) WD0308-565		G140L	BUFFER-TIME=18			280 Secs (280 Secs)	
	Set 4	- W		G140L 1280 A	BUFFER-TIME=18 0; FP-POS=3			280 Secs (280 Secs) [==>]	[1]



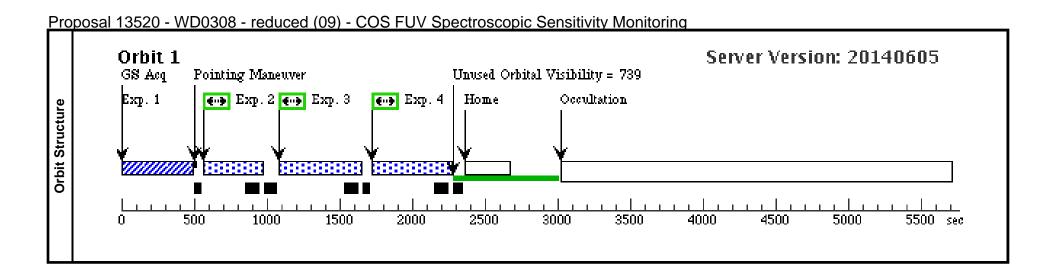
	Proposal 13520, WD0308 - reduced	l (05), completed				Thu Aug 28 01:02:50	GMT 2014
Visit	Diagnostic Status: Warning						
>	Scientific Instruments: COS/NUV, C						
		5; BETWEEN 17-MAR-2014:00:00:00					
Diagnostics	(WD0308 - reduced (05)) Warning (F	Form): For the best data quality, it is stro	ngiy recommended	that all four FP-POS positions be used	i when observing at a given	n COS CENWAVE setting.	
ts	# 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+/-0.02	Reference Frame: ICRS	
ā		Dec: -56 23 49.41 (-56.39706d)	Proper	Motion Dec: 0.0643 arcsec/yr			
g		Equinox: J2000	Epoch	of Position: 2000			
Fixed	Comments: Coordinates from Charle	's proposal					
	# Label Target (ETC Run)	Config,Mode,Aperture	Spectral Els.	Opt. Params. Special Re	qs. Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1 ACQ/IM (1) WD0308-565	COS/NUV, ACO/IMAGE, BOA	MIRRORA			45 Secs (45 Secs)	
	(396029) (1) WD0308-303					[==>]	[1]
			G130M	BUFFER-TIME=14		[==>] 244 Secs (244 Secs)	[1]
	(396029)		G130M 1291 A	BUFFER-TIME=14 4; FP-POS=3			[1]
res	(396029) 2 G130M/129 (1) WD0308-565 1 (COS.sp.395 841) Comments: ETC buffer time is 330 se		1291 A so no need for 2/3 so	4; FP-POS=3 afety margin.		244 Secs (244 Secs)	
sures	(396029) 2 G130M/129 (1) WD0308-565 1 (COS.sp.395 841) Comments: ETC buffer time is 330 se	COS/FUV, TIME-TAG, PSA c. Target has been observed before and use buffer time = exptime -100 sec to m	1291 A so no need for 2/3 so	4; FP-POS=3 afety margin.		244 Secs (244 Secs)	
Exposures	(396029) 2 G130M/129 (1) WD0308-565 1 (COS.sp.395 841) Comments: ETC buffer time is 330 se	COS/FUV, TIME-TAG, PSA c. Target has been observed before and use buffer time = exptime -100 sec to m	1291 A so no need for 2/3 so aximize time on targ	4; FP-POS=3 afety margin. set = 144		244 Secs (244 Secs) [==>]	
Exposures	(396029) 2 G130M/129 (1) WD0308-565 1 (COS.sp.395 841) Comments: ETC buffer time is 330 se	COS/FUV, TIME-TAG, PSA ec. Target has been observed before and cuse buffer time = exptime -100 sec to m COS/FUV, TIME-TAG, PSA arger than exptime need to 2/3 factor	1291 A so no need for 2/3 so aximize time on targ	4; FP-POS=3 afety margin. set = 144 FP-POS=3; BUFFER-TIME=30		244 Secs (244 Secs) [==>] 400 Secs (400 Secs)	[1]
Exposures	(396029) 2 G130M/129 (1) WD0308-565 1 (COS.sp.395 841) Comments: ETC buffer time is 330 se Since buffer time larger than exptime Continue use of 1 FP-POS 3 G160M/162 (1) WD0308-565 3 (395848) Comments: ETC buffer time is 794, la Target has been observed before no n Set buffer time = exptime - 100 = 300 4 G140L/1230 (1) WD0308-565	COS/FUV, TIME-TAG, PSA ac. Target has been observed before and the use buffer time = exptime -100 sec to m COS/FUV, TIME-TAG, PSA arger than exptime the the the the the the the the the th	1291 A so no need for 2/3 so aximize time on targ	4; FP-POS=3 afety margin. ret = 144 FP-POS=3; BUFFER-TIME=30 0		244 Secs (244 Secs) [==>] 400 Secs (400 Secs)	[1]
Exposures	(396029) 2 G130M/129 (1) WD0308-565 1 (COS.sp.395 841) Comments: ETC buffer time is 330 se Since buffer time larger than exptime Continue use of 1 FP-POS 3 G160M/162 (1) WD0308-565 3 (395848) Comments: ETC buffer time is 794, la Target has been observed before no not Set buffer time = exptime - 100 = 300	COS/FUV, TIME-TAG, PSA ac. Target has been observed before and the use buffer time = exptime -100 sec to m COS/FUV, TIME-TAG, PSA arger than exptime the the the the the the the the the th	so no need for 2/3 so aximize time on targ G160M 1623 A	4; FP-POS=3 afety margin. ret = 144 FP-POS=3; BUFFER-TIME=30 0		244 Secs (244 Secs) [==>] 400 Secs (400 Secs) [==>]	[1]



	Proposal 13520, WD0308 - reduced	l (07), completed				Thu Aug 28 01:02:50	GMT 2014
Visit	Diagnostic Status: Warning						
>	Scientific Instruments: COS/NUV, C						
		6; BETWEEN 19-MAY-2014:00:00:00					
Diagnostics	(WD0308 - reduced (07)) Warning (F	Form): For the best data quality, it is stro	ngiy recommended	that all four FP-POS positions be used	i when observing at a giver	n COS CENWAVE setting.	
ts	# 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+/-0.02	Reference Frame: ICRS	
ā		Dec: -56 23 49.41 (-56.39706d)	Proper	Motion Dec: 0.0643 arcsec/yr			
g		Equinox: J2000	Epoch	of Position: 2000			
Fixed	Comments: Coordinates from Charle	's proposal					
	# Label Target (ETC Run)	Config,Mode,Aperture	Spectral Els.	Opt. Params. Special Re	qs. Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		COS/NUV, ACO/IMAGE, BOA	MIRRORA			45 Secs (45 Secs)	
	1 ACQ/IM (1) WD0308-565	COB/TIC V, TICQ/IIIITOE, BOTT					_
	1 ACQ/IM (1) WD0308-565 (396029)	COS/IVO V, MCQ/IVIII CE, BOM				[==>]	[1]
			G130M	BUFFER-TIME=14		[==>] 244 Secs (244 Secs)	[1]
	(396029)		G130M 1291 A	BUFFER-TIME=14 4; FP-POS=3			[1]
res	(396029) 2 G130M/129 (1) WD0308-565 1 (COS.sp.395 841) Comments: ETC buffer time is 330 se		1291 A so no need for 2/3 s	4; FP-POS=3 afety margin.		244 Secs (244 Secs)	
sures	(396029) 2 G130M/129 (1) WD0308-565 1 (COS.sp.395 841) Comments: ETC buffer time is 330 se Since buffer time larger than exptime	COS/FUV, TIME-TAG, PSA ec. Target has been observed before and use buffer time = exptime -100 sec to m	1291 A so no need for 2/3 s	4; FP-POS=3 afety margin.		244 Secs (244 Secs)	
Exposures	(396029) 2 G130M/129 (1) WD0308-565 1 (COS.sp.395 841) Comments: ETC buffer time is 330 se Since buffer time larger than exptime Continue use of 1 FP-POS	COS/FUV, TIME-TAG, PSA ec. Target has been observed before and use buffer time = exptime -100 sec to m	1291 A so no need for 2/3 s aximize time on targ	4; FP-POS=3 afety margin. set = 144		244 Secs (244 Secs) [==>]	
Exposures	(396029) 2 G130M/129 (1) WD0308-565 1 (COS.sp.395 841) Comments: ETC buffer time is 330 se Since buffer time larger than exptime Continue use of 1 FP-POS 3 G160M/162 (1) WD0308-565 3	cc. Target has been observed before and use buffer time = exptime -100 sec to m COS/FUV, TIME-TAG, PSA arger than exptime	1291 A so no need for 2/3 s aximize time on tars G160M	4; FP-POS=3 afety margin. set = 144 FP-POS=3; BUFFER-TIME=30		244 Secs (244 Secs) [==>] 400 Secs (400 Secs)	[1]
Exposures	(396029) 2 G130M/129 (1) WD0308-565 1 (COS.sp.395 841) Comments: ETC buffer time is 330 se Since buffer time larger than exptime Continue use of 1 FP-POS 3 G160M/162 (1) WD0308-565 3 (395848) Comments: ETC buffer time is 794, le Target has been observed before no r Set buffer time = exptime - 100 = 300 4 G140L/1230 (1) WD0308-565	cc. Target has been observed before and use buffer time = exptime -100 sec to m COS/FUV, TIME-TAG, PSA arger than exptime need to 2/3 factor	1291 A so no need for 2/3 s aximize time on tars G160M	4; FP-POS=3 afety margin. ret = 144 FP-POS=3; BUFFER-TIME=30 0		244 Secs (244 Secs) [==>] 400 Secs (400 Secs)	[1]
Exposures	(396029) 2 G130M/129 (1) WD0308-565 1 (COS.sp.395 841) Comments: ETC buffer time is 330 se Since buffer time larger than exptime Continue use of 1 FP-POS 3 G160M/162 (1) WD0308-565 3 (395848) Comments: ETC buffer time is 794, la Target has been observed before no n Set buffer time = exptime - 100 = 300	cc. Target has been observed before and use buffer time = exptime -100 sec to m COS/FUV, TIME-TAG, PSA arger than exptime need to 2/3 factor	so no need for 2/3 s aximize time on targ G160M 1623 A	4; FP-POS=3 afety margin. set = 144 FP-POS=3; BUFFER-TIME=30 0		244 Secs (244 Secs) [==>] 400 Secs (400 Secs) [==>]	[1]



Pro	oposal 13520 - WD0308	B - reduced (09) - COS F	UV Spectros	sconic Sensitivit	v Monitou	ina		
<u> </u>	Proposal 13520, WD0308 - reduced		O V Opcolio	Scopio Ocholivii	<u>y ivioriitor</u>	ing	Thu Aug 28 01:02:50	GMT 2014
يدا	Diagnostic Status: Warning	(07), completed					Thu Aug 20 01.02.30	GW11 2014
Visit	Scientific Instruments: COS/NUV, C	OS/FLIV						
[· ·	s; BETWEEN 21-JUL-2014:00:00:00 A	NID 27-II II -2014:0	0.00.00				
Diagnostics		Form): For the best data quality, it is stro			ions be used w	nen observing at a give	n COS CENWAVE setting.	
Ś	# Name	Target Coordinates	Targ.	Coord. Corrections		Fluxes	Miscellaneous	
Targets	(1) WD0308-565	RA: 03 09 47.9200 (47.4496667d)		: Motion RA: 0.018141 se		V=14.07+/-0.02	Reference Frame: ICRS	
ar.	(-)	Dec: -56 23 49.41 (-56.39706d)		Motion Dec: 0.0643 arcs	,	, , , , , , , , , , , , , , , , ,		
		Equinox: J2000		of Position: 2000	, 5-			
Fixed	Comments: Coordinates from Charle	's proposal						
	# Label Target (ETC Run)	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)	
	(396029)						[==>]	[1]
	2 G130M/129 (1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=14			244 Secs (244 Secs)	
	1 (COS.sp.395 841)		1291 A	4; FP-POS=3			[==>]	[1]
res	Since buffer time larger than exptime	cc. Target has been observed before and use buffer time = exptime -100 sec to m	so no need for 2/3 s aximize time on tarş	afety margin. get = 144				
l su	3 G160M/162 (1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M	FP-POS=3;			400 Secs (400 Secs)	
Exposure	3 (395848)		1623 A	BUFFER-TIME=30			[==>]	[1]
"	Comments: ETC buffer time is 794, le Target has been observed before no r Set buffer time = exptime - 100 = 300	need to 2/3 factor						
	4 G140L/1230 (1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=18			280 Secs (280 Secs)	
	(COS.sp.395 854)		1280 A	0; FP-POS=3			[==>]	[1]



	Proposal 13520, WD0308 - reduced	l (11), implementation					Thu Aug 28 01:02:50	GMT 2014
Visit	Diagnostic Status: Warning							
>	Scientific Instruments: COS/NUV, C							
		6; BETWEEN 20-OCT-2014:00:00:00 A					GOO OF WALLEY	
Diagnostics	(WD0308 - reduced (11)) Warming (1	Form): For the best data quality, it is stro	ngry recommended	tnat all four FP-POS pos	itions be used wr	ien observing at a giver	n COS CENWAVE setting.	
ts	# Name	Target Coordinates	Targ.	Coord. Corrections		Fluxes	Miscellaneous	
Targets	(1) WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper	Motion RA: 0.018141 s	ec of time/yr	V=14.07+/-0.02	Reference Frame: ICRS	
ā		Dec: -56 23 49.41 (-56.39706d)	Proper	Motion Dec: 0.0643 arc	sec/yr			
Ъ		Equinox: J2000	Epoch	of Position: 2000				
Fixed	Comments: Coordinates from Charle	s's proposal						
	# Label Target (ETC Run)	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		GS ACQ SCE	NARI	45 Secs (45 Secs)	
					O SINGLE			
	(396029)				OSINGLE		[==>]	[1]
		COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=14			[==>] 244 Secs (244 Secs)	[1]
	(396029)	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=14 4; FP-POS=3				[1]
res	(396029) 2 G130M/129 (1) WD0308-565 1 (COS.sp.395 841) Comments: ETC buffer time is 330 se	COS/FUV, TIME-TAG, PSA ec. Target has been observed before and e use buffer time = exptime -100 sec to m	1291 A so no need for 2/3 s	4; FP-POS=3 afety margin.			244 Secs (244 Secs)	
sures	(396029) 2 G130M/129 (1) WD0308-565 1 (COS.sp.395 841) Comments: ETC buffer time is 330 se	ec. Target has been observed before and e use buffer time = exptime -100 sec to m	1291 A so no need for 2/3 s	4; FP-POS=3 afety margin.			244 Secs (244 Secs)	
Exposures	(396029) 2 G130M/129 (1) WD0308-565 1 (COS.sp.395 841) Comments: ETC buffer time is 330 se	ec. Target has been observed before and e use buffer time = exptime -100 sec to m	1291 A so no need for 2/3 s aximize time on targ	4; FP-POS=3 afety margin. get = 144			244 Secs (244 Secs) [==>]	
Exposures	(396029) 2 G130M/129 (1) WD0308-565 1 (COS.sp.395 841) Comments: ETC buffer time is 330 se	ec. Target has been observed before and e use buffer time = exptime -100 sec to m COS/FUV, TIME-TAG, PSA arger than exptime need to 2/3 factor	1291 A so no need for 2/3 s aximize time on targ	4; FP-POS=3 afety margin. get = 144 FP-POS=3; BUFFER-TIME=30			244 Secs (244 Secs) [==>] 400 Secs (400 Secs)	[1]
Exposures	(396029) 2 G130M/129 (1) WD0308-565 1 (COS.sp.395 841) Comments: ETC buffer time is 330 ss Since buffer time larger than exptime Continue use of 1 FP-POS 3 G160M/162 (1) WD0308-565 3 (395848) Comments: ETC buffer time is 794, larget has been observed before no set buffer time = exptime - 100 = 300 4 G140L/1230 (1) WD0308-565	ec. Target has been observed before and e use buffer time = exptime -100 sec to m COS/FUV, TIME-TAG, PSA arger than exptime need to 2/3 factor	1291 A so no need for 2/3 s aximize time on targ	4; FP-POS=3 afety margin. get = 144 FP-POS=3; BUFFER-TIME=30 0)		244 Secs (244 Secs) [==>] 400 Secs (400 Secs)	[1]
Exposures	(396029) 2 G130M/129 (1) WD0308-565 1 (COS.sp.395 841) Comments: ETC buffer time is 330 sc Since buffer time larger than exptime Continue use of 1 FP-POS 3 G160M/162 (1) WD0308-565 3 (395848) Comments: ETC buffer time is 794, larget has been observed before no in Set buffer time = exptime - 100 = 300	ec. Target has been observed before and e use buffer time = exptime -100 sec to m COS/FUV, TIME-TAG, PSA arger than exptime need to 2/3 factor	so no need for 2/3 s aximize time on targ G160M 1623 A	4; FP-POS=3 afety margin. get = 144 FP-POS=3; BUFFER-TIME=30 0)		244 Secs (244 Secs) [==>] 400 Secs (400 Secs) [==>]	[1]

Comments: ETC buffer time is 479, 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

