



13932 - Third COS FUV Lifetime Position: Cross-Dispersion Profiles, Flux, and Flat-Field Calibration (LCAL3)

Cycle: 22, Proposal Category: CAL/COS

(Availability Mode: RESTRICTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) WD0308-565	COS/FUV COS/NUV	4	09-Sep-2014 21:28:18.0	yes
02	(1) WD0308-565	COS/FUV COS/NUV	2	09-Sep-2014 21:28:21.0	yes
03	(1) WD0308-565	COS/FUV COS/NUV	5	09-Sep-2014 21:28:25.0	yes
04	(1) WD0308-565	COS/FUV COS/NUV	4	09-Sep-2014 21:28:30.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
05	(2) GD71	COS/FUV COS/NUV	4	09-Sep-2014 21:28:34.0	yes

19 Total Orbits Used

ABSTRACT

Obtain observations of spectrophotometric white dwarf standard stars at all cenwaves (excepting G130M/1055 and G130M/1096) and FP-POS to determine flux calibrations to $S/N > 30$ and concurrently, the 1-D L- and P-flat templates, and 2-D cross-dispersion profiles required for improved extraction, at LP3. Tie in spectroscopic sensitivity monitoring at LP3 with that at LP2, in case rapid evolution of gain at LP3 is discovered.

The main requirements for this program are driven either by the requirements for the flat fielding of pixel-to-pixel variations (p-flats), which require a $S/N \sim 50/\text{resel}$, or through the requirements for high S/N 2-D spectral profiles which are calculated by scaling FCAL3 (12806) profiles and requiring that profile contours can be located such that flux errors are less than 1-2%. WD 0308-565 is the primary target for this program due to its status as a flux standard and TDS target. GD 71 is used to more efficiently calibrate Segment A in the G160M modes. Since the flux of the WD is well known, we select an 85% factor for the buffer time. This worked well in LOP2 (13618).

OBSERVING DESCRIPTION

LCAL3 is a near copy of the FCAL3 (12806) program for the third lifetime position with two important differences: There is no TDS transfer observations due to the fact that the current TDS targets are retained, and longer exposure times for G130M/1222, G140L/1280,1105, and G160M/1577,1589,1600,1611,1623. These longer exposure times are primarily driven by the requirements for high quality 2-D profiles for 2 zone extraction, as well as a slightly fainter G160M target compared to FCAL3, WD 0308-565.

All visits go to LP3 via the selection of the Lifetime Position=ALTERNATE optional parameter.

HV values used for the alternate position are the default set up for LP3: 167(FUVA)/163(FUVB) for all modes except G130M/1222, which uses a slightly higher set of 171 (FUVA)/167 (FUVB).

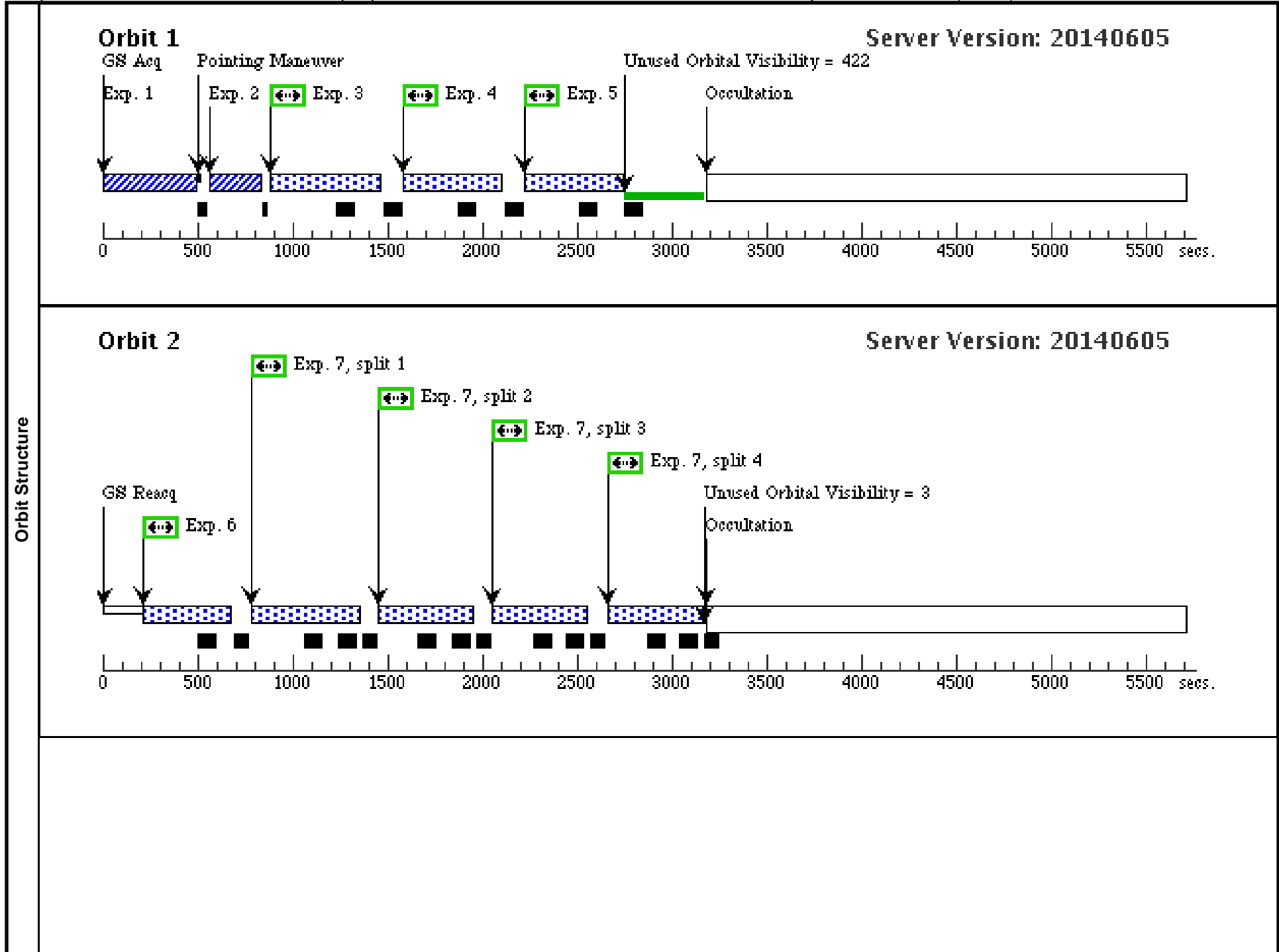
Proposal 13932 - WD0308-G130M (01) - Third COS FUV Lifetime Position: Cross-Dispersion Profiles, Flux, and Flat-Field Calibration ...

Wed Sep 10 01:28:36 GMT 2014

Visit	<p>Proposal 13932, WD0308-G130M (01), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/NUV, COS/FUV</p> <p>Special Requirements: VISIBILITY INTERVAL 53 M</p> <p><i>Comments: p-flats/profiles for G130M/ 1222, 1291, 1300, 1327 Target WD 0308-565</i></p> <p><i>Goal is S/N~50/resel over majority of bandpass</i></p>					
	<p>(WD0308-G130M (01)) Warning (Form): COS ACQ/PEAKD exposure should be preceded by an ACQ/PEAKXD exposure in the Visit.</p>					
Diagnosics						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS
<p><i>Comments: Coordinates from Charle's proposal</i></p>						

Proposal 13932 - WD0308-G130M (01) - Third COS FUV Lifetime Position: Cross-Dispersion Profiles, Flux, and Flat-Field Calibration ...

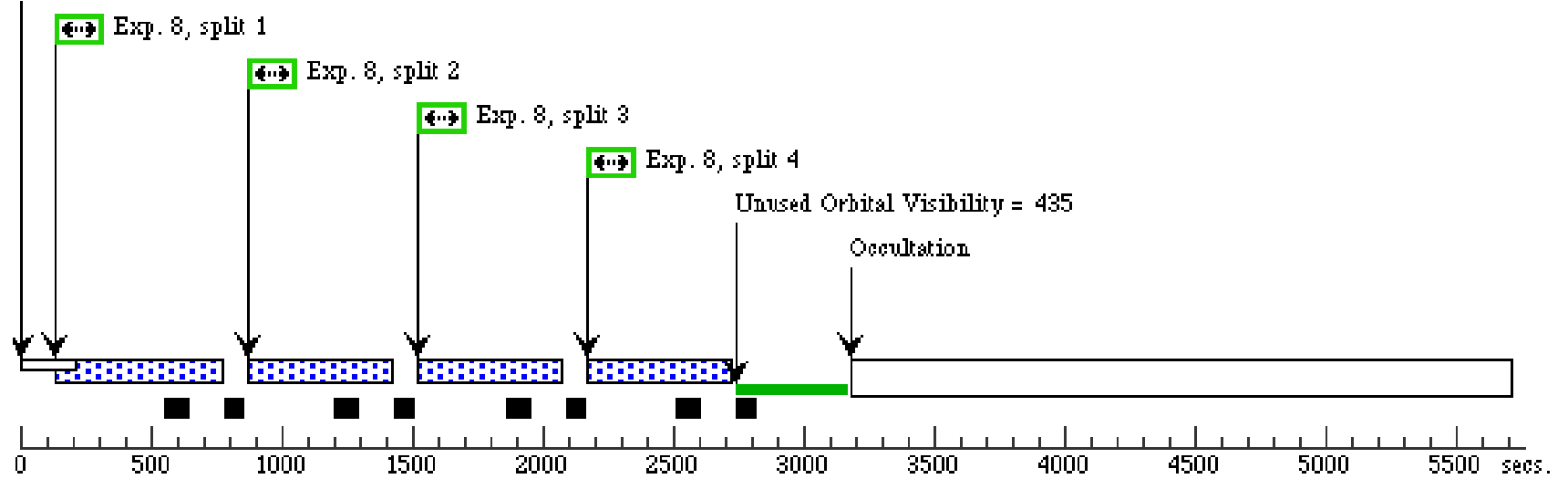
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IM (COS.ta.629 404)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA		GS ACQ SCENARI O BASE1B3		45 Secs (45 Secs) [==>]	[1]
	2	PEAKD Che ck (COS.ta.632 015)	(1) WD0308-565	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	CENTER=DEF; STEP-SIZE=0.9; NUM-POS=5; LIFETIME-POS=A LTERNATE			0.3 Secs (0.3 Secs) [==>]	[1]
	3	G130M/129 1 (COS.sp.629 395)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=24 8; LIFETIME-POS=A LTERNATE			465 Secs (465 Secs) [==>]	[1]
	4	G130M/129 1 (COS.sp.629 395)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=24 8; LIFETIME-POS=A LTERNATE			465 Secs (465 Secs) [==>]	[1]
	5	G130M/129 1 (COS.sp.629 395)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=24 8; LIFETIME-POS=A LTERNATE			465 Secs (465 Secs) [==>]	[1]
	6	G130M/129 1 (COS.sp.629 395)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=24 8; LIFETIME-POS=A LTERNATE			410 Secs (410 Secs) [==>]	[2]
	7	G130M/130 0 (COS.sp.629 397)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=ALL; BUFFER-TIME=17 5; LIFETIME-POS=A LTERNATE			449 Secs (1796 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[2]
	8	G130M/122 2 (COS.sp.614 220)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=ALL; BUFFER-TIME=30 0; LIFETIME-POS=A LTERNATE			500 Secs (2000 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[3]
9	G130M/132 7 (396018)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=ALL; BUFFER-TIME=24 8; LIFETIME-POS=A LTERNATE			500 Secs (2000 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[4]	

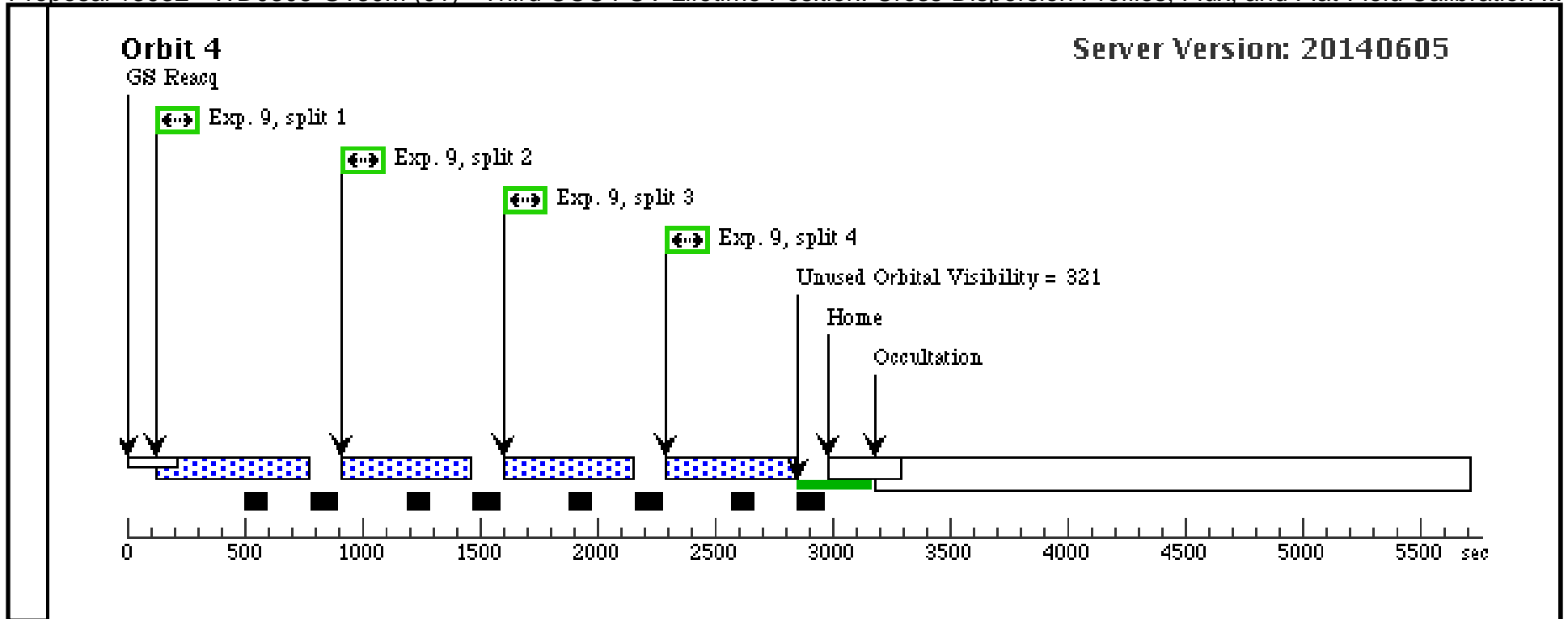


Orbit 3

Server Version: 20140605

GS Reacq





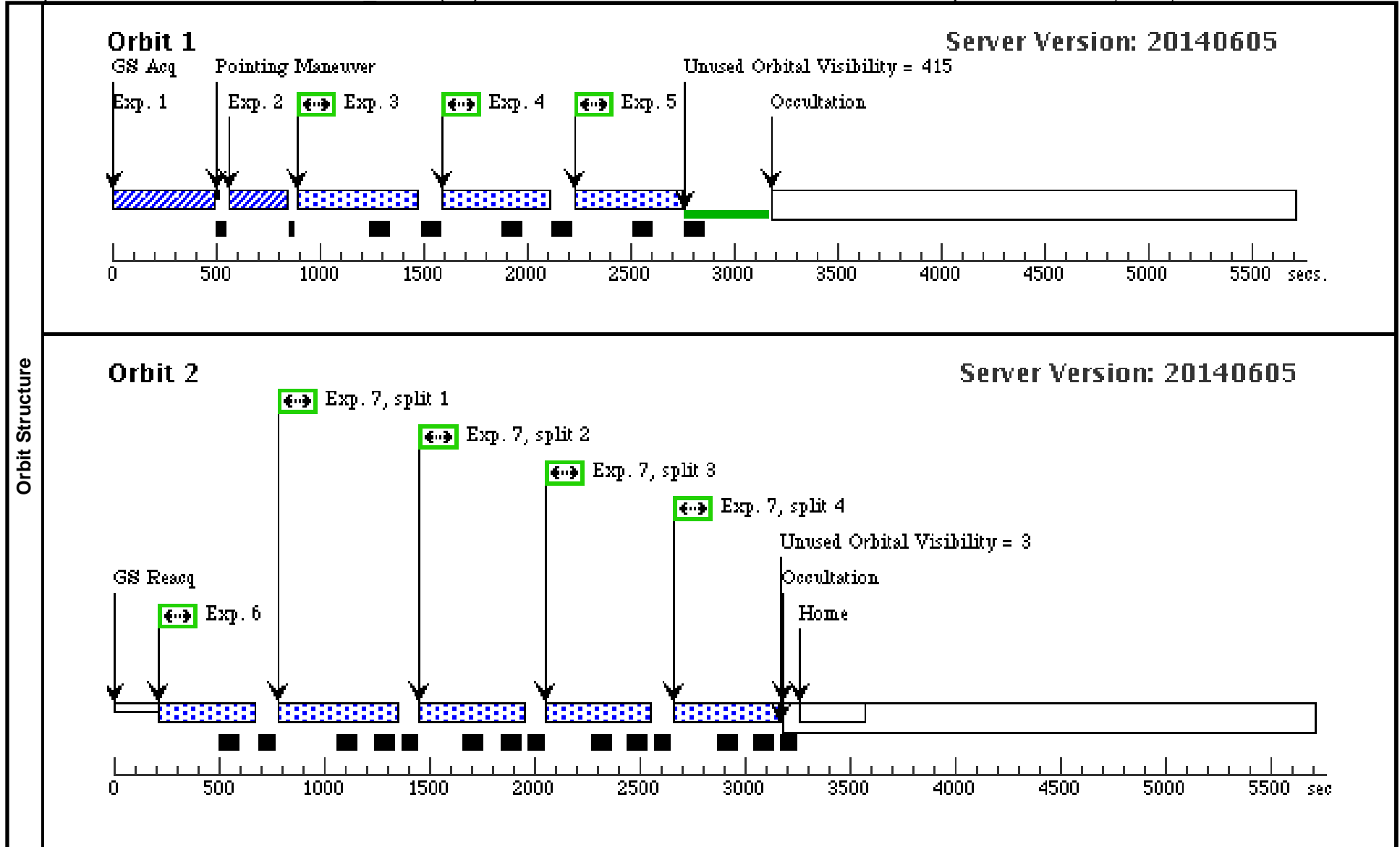
Proposal 13932 - WD0308-G130M Part2 (02) - Third COS FUV Lifetime Position: Cross-Dispersion Profiles, Flux, and Flat-Field Calib...

Wed Sep 10 01:28:36 GMT 2014

Visit	<p>Proposal 13932, WD0308-G130M_Part2 (02), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/NUV, COS/FUV</p> <p>Special Requirements: VISIBILITY INTERVAL 53 M</p> <p>Comments: Continuation of Visit 1</p> <p><i>p-flats/profiles for G130M/ 1309, 1318 Target WD 0308-565</i></p> <p><i>Goal is S/N~50/resel over majority of bandpass</i></p>																	
	<p>(WD0308-G130M_Part2 (02)) Warning (Form): COS ACQ/PEAKD exposure should be preceded by an ACQ/PEAKXD exposure in the Visit.</p>																	
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>WD0308-565</td> <td>RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000</td> <td>Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000</td> <td>V=14.07+/-0.02</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p>Comments: Coordinates from Charle's proposal</p>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS													

Proposal 13932 - WD0308-G130M Part2 (02) - Third COS FUV Lifetime Position: Cross-Dispersion Profiles, Flux, and Flat-Field Calib...

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	ACQ/IM (COS.ta.629 404)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA		GS ACQ SCENARI O BASE1B3	45 Secs (45 Secs) [==>]	[1]
	2	PEAKD Che ck (COS.ta.632 016)	(1) WD0308-565	COS/FUV, ACQ/PEAKD, PSA	G130M 1309 A	CENTER=DEF; STEP-SIZE=0.9; NUM-POS=5; LIFETIME-POS=A LTERNATE		0.3 Secs (0.3 Secs) [==>]	[1]
	3	G130M/130 9 (COS.sp.629 398)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=1; BUFFER-TIME=24 8; LIFETIME-POS=A LTERNATE		465 Secs (465 Secs) [==>]	[1]
	4	G130M/130 9 (COS.sp.629 398)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=2; BUFFER-TIME=24 8; LIFETIME-POS=A LTERNATE		465 Secs (465 Secs) [==>]	[1]
	5	G130M/130 9 (COS.sp.629 398)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=3; BUFFER-TIME=24 8; LIFETIME-POS=A LTERNATE		465 Secs (465 Secs) [==>]	[1]
	6	G130M/130 9 (COS.sp.629 398)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=4; BUFFER-TIME=24 8; LIFETIME-POS=A LTERNATE		410 Secs (410 Secs) [==>]	[2]
	7	G130M/131 8 (COS.sp.629 401)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1318 A	FP-POS=ALL; BUFFER-TIME=17 5; LIFETIME-POS=A LTERNATE		449 Secs (1796 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[2]



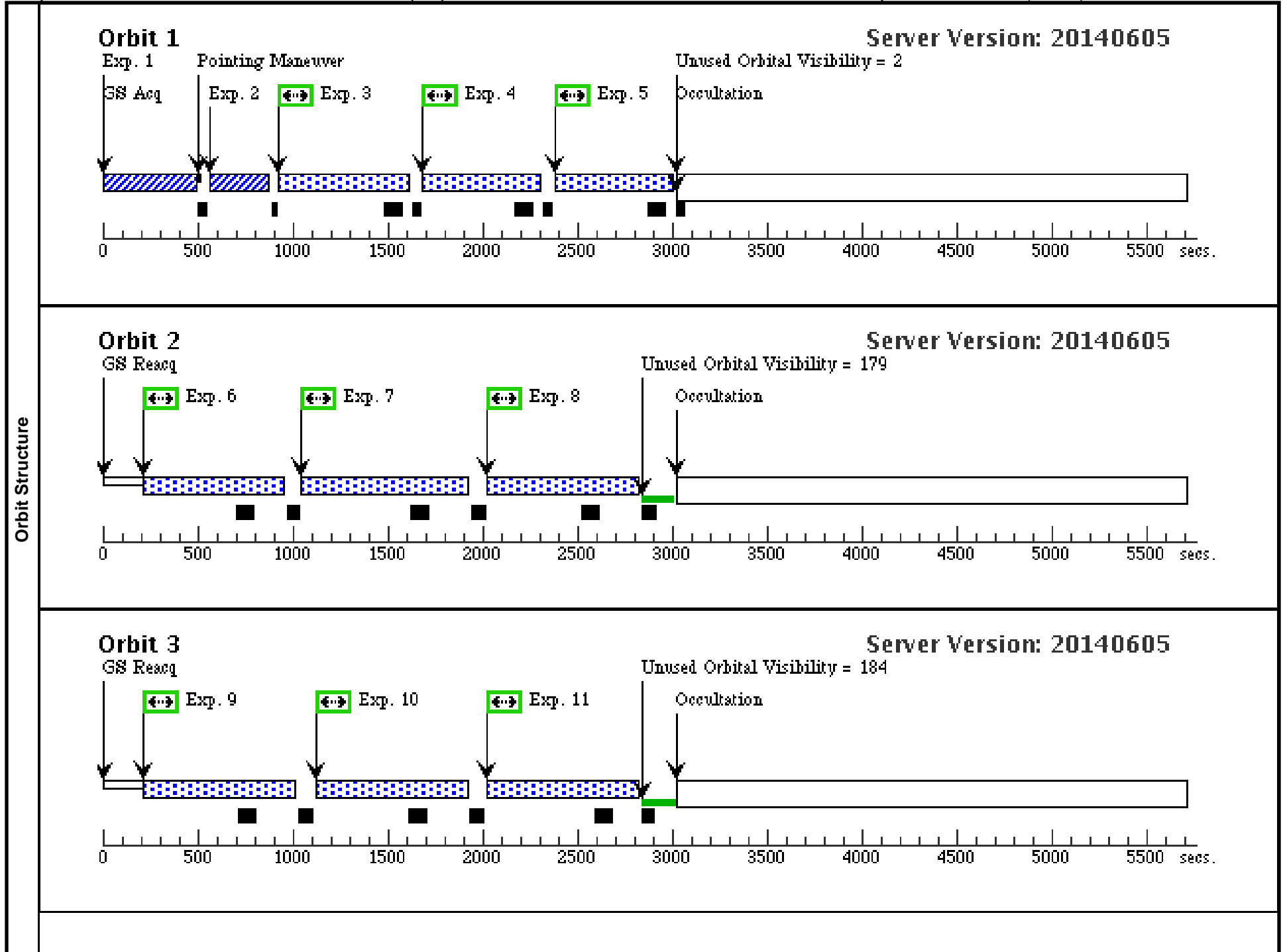
Visit	<p>Proposal 13932, WD0308-G160M/G140L (03), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/NUV, COS/FUV</p> <p>Special Requirements: SCHED 100%</p> <p><i>Comments: p-flats/profiles for G160M/1577,1589,1600; G140L/1105 Target WD 0308-565</i></p> <p><i>Goal is S/N~50/resel over majority of bandpass.</i></p>					
	<p>(WD0308-G160M/G140L (03)) Warning (Form): COS ACQ/PEAKD exposure should be preceded by an ACQ/PEAKXD exposure in the Visit.</p>					
Diagnosics						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS
<p><i>Comments: Coordinates from Charle's proposal</i></p>						

Proposal 13932 - WD0308-G160M/G140L (03) - Third COS FUV Lifetime Position: Cross-Dispersion Profiles, Flux, and Flat-Field Cali...

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	ACQ/IM (COS.ta.629 404)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA		GS ACQ SCENARI O BASE1B3	45 Secs (45 Secs) [==>]	[1]
	2	PEAKD Che ck (COS.ta.632 019)	(1) WD0308-565	COS/FUV, ACQ/PEAKD, PSA	G160M 1577 A	CENTER=DEF; STEP-SIZE=0.9; NUM-POS=5; LIFETIME-POS=A LTERNATE		0.4 Secs (0.4 Secs) [==>]	[1]
	3	G160M/157 7 (COS.sp.629 417)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=1; BUFFER-TIME=45 0; LIFETIME-POS=A LTERNATE		571 Secs (571 Secs) [==>]	[1]
	4	G160M/157 7 (COS.sp.629 417)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=2; BUFFER-TIME=45 0; LIFETIME-POS=A LTERNATE		571 Secs (571 Secs) [==>]	[1]
	5	G160M/157 7 (COS.sp.629 417)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=45 0; LIFETIME-POS=A LTERNATE		571 Secs (571 Secs) [==>]	[1]
	6	G160M/157 7 (COS.sp.629 417)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=45 0; LIFETIME-POS=A LTERNATE		687 Secs (687 Secs) [==>]	[2]
	7	G160M/160 0 (COS.sp.629 419)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=1; BUFFER-TIME=46 0; LIFETIME-POS=A LTERNATE		750 Secs (750 Secs) [==>]	[2]
	8	G160M/160 0 (COS.sp.629 419)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=2; BUFFER-TIME=46 0; LIFETIME-POS=A LTERNATE		750 Secs (750 Secs) [==>]	[2]
	9	G160M/160 0 (COS.sp.629 419)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=46 0; LIFETIME-POS=A LTERNATE		750 Secs (750 Secs) [==>]	[3]
	10	G160M/160 0 (COS.sp.629 419)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; BUFFER-TIME=46 0; LIFETIME-POS=A LTERNATE		750 Secs (750 Secs) [==>]	[3]

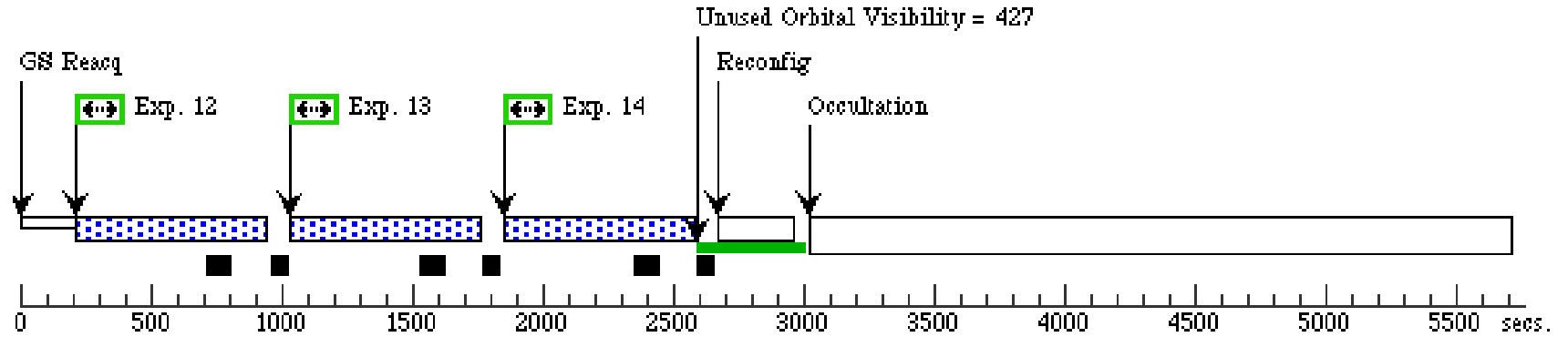
Proposal 13932 - WD0308-G160M/G140L (03) - Third COS FUV Lifetime Position: Cross-Dispersion Profiles, Flux, and Flat-Field Cali...

11	G160M/158 9 (COS.sp.629 418)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=1; BUFFER-TIME=46 0; LIFETIME-POS=A LTERNATE	675 Secs (675 Secs)	[3]
						[==>]	
12	G160M/158 9 (COS.sp.629 418)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=2; BUFFER-TIME=46 0; LIFETIME-POS=A LTERNATE	675 Secs (675 Secs)	[4]
						[==>]	
13	G160M/158 9 (COS.sp.629 418)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=46 0; LIFETIME-POS=A LTERNATE	675 Secs (675 Secs)	[4]
						[==>]	
14	G160M/158 9 (COS.sp.629 418)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=46 0; LIFETIME-POS=A LTERNATE	675 Secs (675 Secs)	[4]
						[==>]	
15	G140L/1105 (COS.sp.629 421)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	FP-POS=ALL; BUFFER-TIME=20 0; LIFETIME-POS=A LTERNATE	540 Secs (2160 Secs)	[5]
						[==>(Split 1)]	
						[==>(Split 2)]	
						[==>(Split 3)]	
						[==>(Split 4)]	



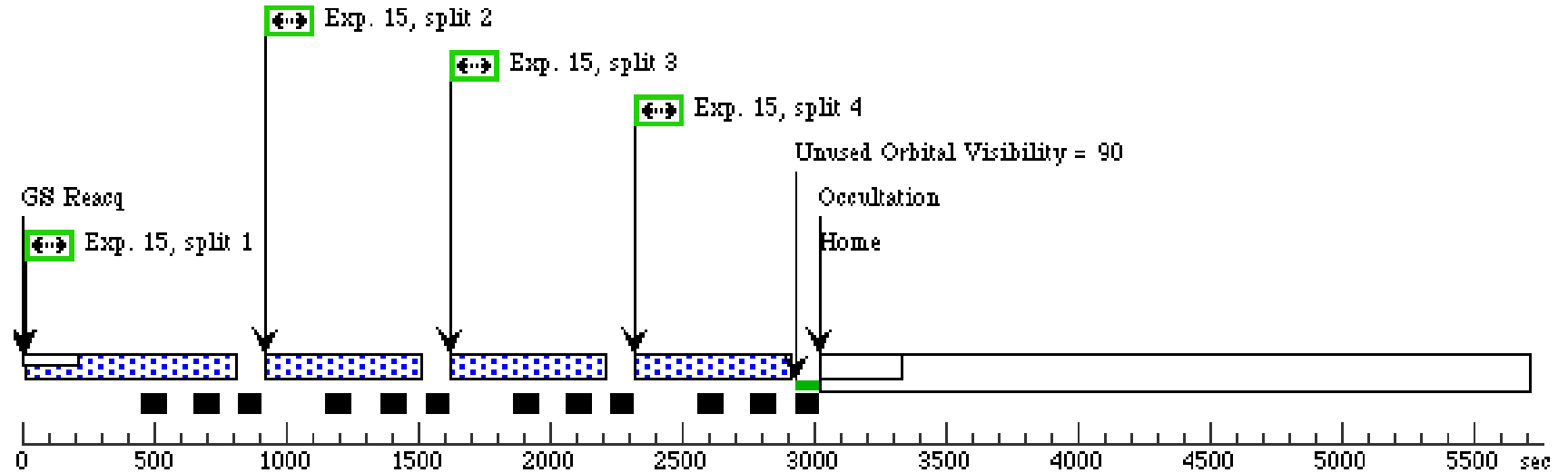
Orbit 4

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Orbit 5

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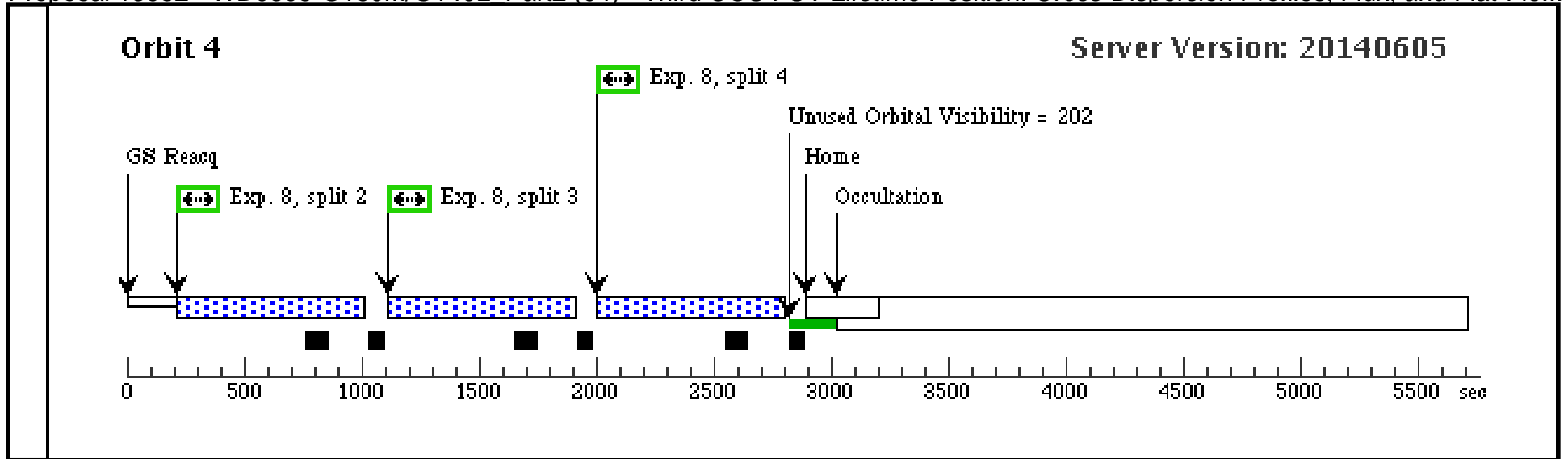
Proposal 13932 - WD0308-G160M/G140L Part2 (04) - Third COS FUV Lifetime Position: Cross-Dispersion Profiles, Flux, and Flat-Fie...

Visit	<p>Proposal 13932, WD0308-G160M/G140L_Part2 (04), implementation Wed Sep 10 01:28:37 GMT 2014</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/NUV, COS/FUV</p> <p>Special Requirements: SCHED 100%</p> <p><i>Comments: Continuation of Visit 4</i></p> <p><i>p-flats/profiles for G140L/1280; G160M/1611,1623 Target WD 0308-565</i></p> <p><i>Goal is S/N~50/resel over majority of bandpass.</i></p>																	
	<p>(WD0308-G160M/G140L_Part2 (04)) Warning (Form): COS ACQ/PEAKD exposure should be preceded by an ACQ/PEAKXD exposure in the Visit.</p>																	
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Proposal 13932 - WD0308-G160M/G140L Part2 (04) - Third COS FUV Lifetime Position: Cross-Dispersion Profiles, Flux, and Flat-Fie...

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IM (396032)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA		GS ACQ SCENARI O BASE1B3		35 Secs (35 Secs) [==>]	[1]
	2	PEAKD Che ck (COS.ta.632 022)	(1) WD0308-565	COS/FUV, ACQ/PEAKD, PSA	G140L 1280 A	CENTER=DEF; STEP-SIZE=0.9; NUM-POS=5; LIFETIME-POS=A LTERNATE			0.7 Secs (0.7 Secs) [==>]	[1]
	3	G140L/1280 (COS.sp.614 221)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	FP-POS=1; BUFFER-TIME=32 0; LIFETIME-POS=A LTERNATE			565 Secs (565 Secs) [==>]	[1]
	4	G140L/1280 (COS.sp.614 221)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	FP-POS=2; BUFFER-TIME=32 0; LIFETIME-POS=A LTERNATE			565 Secs (565 Secs) [==>]	[1]
	5	G140L/1280 (COS.sp.614 221)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	FP-POS=3; BUFFER-TIME=32 0; LIFETIME-POS=A LTERNATE			565 Secs (565 Secs) [==>]	[1]
	6	G140L/1280 (COS.sp.614 221)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	FP-POS=4; BUFFER-TIME=32 0; LIFETIME-POS=A LTERNATE			689 Secs (689 Secs) [==>]	[2]
	7	G160M/162 3 (396037)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=ALL; BUFFER-TIME=51 0; LIFETIME-POS=A LTERNATE			750 Secs (3000 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[2] [3]
	8	G160M/161 1 (COS.sp.629 424)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=ALL; BUFFER-TIME=51 0; LIFETIME-POS=A LTERNATE			750 Secs (3000 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[3] [4]



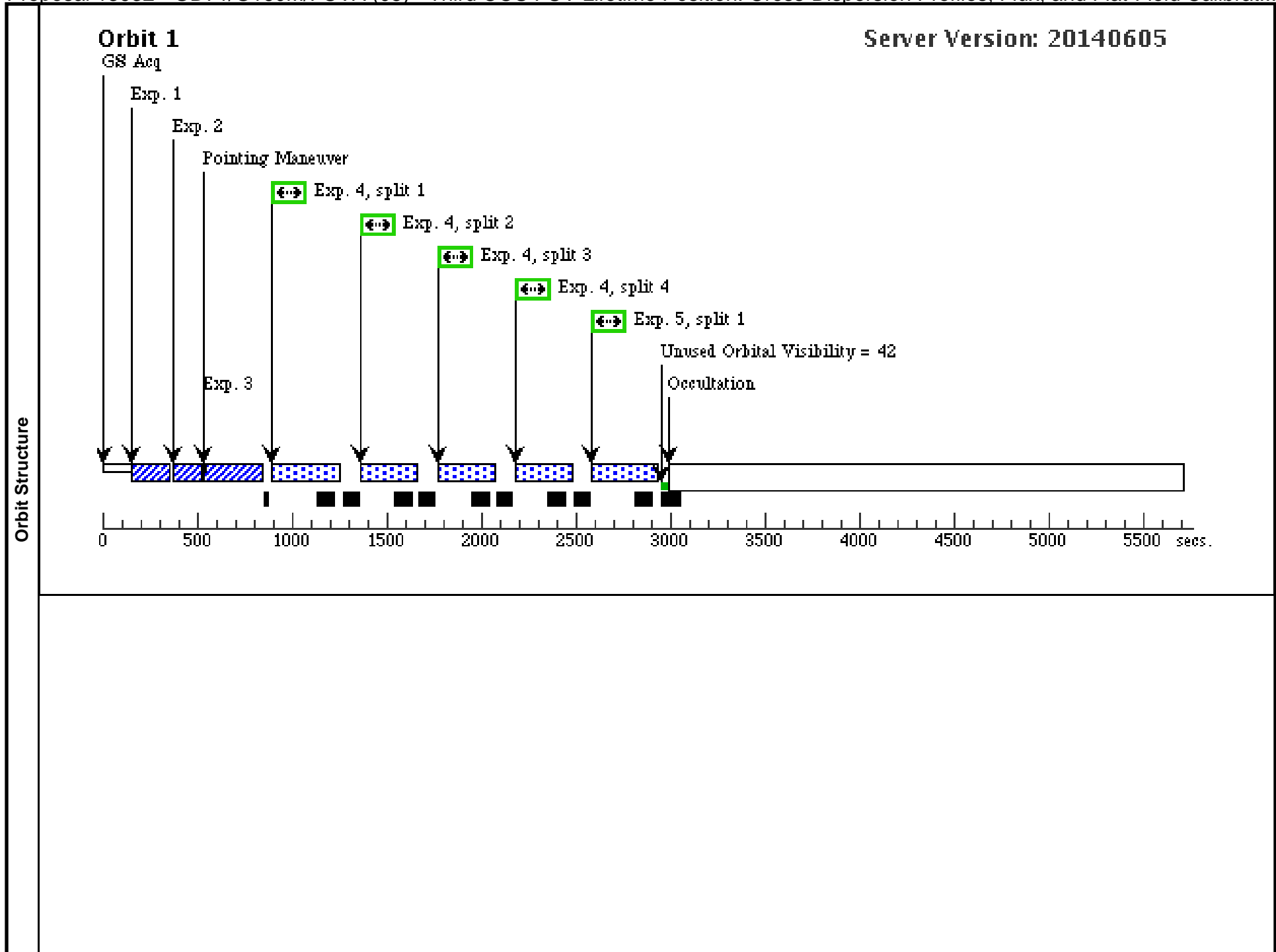


Proposal 13932 - GD71/G160M/FUVA (05) - Third COS FUV Lifetime Position: Cross-Dispersion Profiles, Flux, and Flat-Field Calibrat...

Visit	Proposal 13932, GD71/G160M/FUVA (05), implementation Wed Sep 10 01:28:37 GMT 2014 Diagnostic Status: No Diagnostics Scientific Instruments: COS/NUV, COS/FUV Special Requirements: SCHED 100% <i>Comments: P-flat/profile observations for G160M FUVA, in G160M/1577,1589,1600,1611,1623 with Segment B off. Target GD 71</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(2)		GD71	RA: 05 52 27.6100 (88.1150417d) Dec: +15 53 13.80 (15.88717d) Equinox: J2000	Proper Motion RA: 85 mas/yr Proper Motion Dec: -174 mas/yr Epoch of Position: 2000	V=13.06+/-0.01	Reference Frame: ICRS
<i>Comments: Use sma RA, DEC and PM as in proposal 12392 by Bohlin et al.</i>						

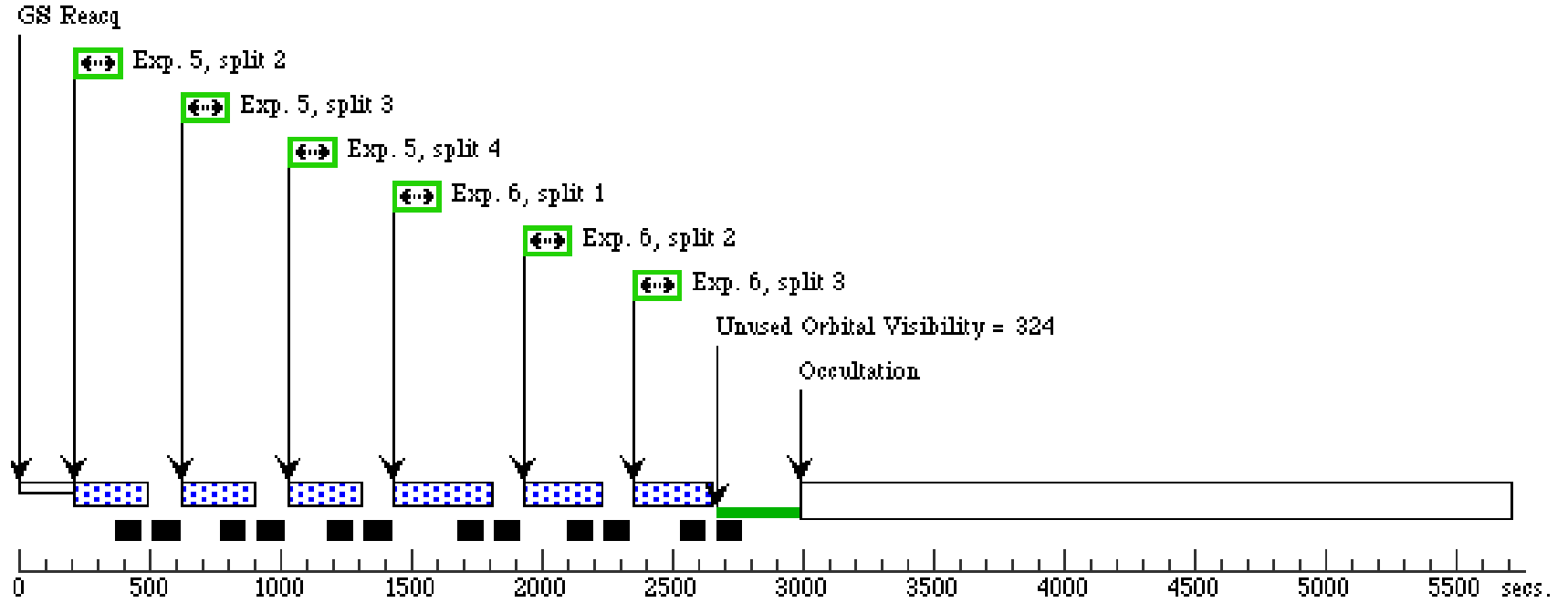
Proposal 13932 - GD71/G160M/FUVA (05) - Third COS FUV Lifetime Position: Cross-Dispersion Profiles, Flux, and Flat-Field Calibrat...

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/PEAK XD (COS.sa.632 046)	(2) GD71	COS/NUV, ACQ/PEAKXD, PSA	G185M 1850 A	STRIPE=MEDIUM			0.4 Secs (0.4 Secs) [==>]	[1]
	2	ACQ/PEAK D (COS.ta.629 425)	(2) GD71	COS/NUV, ACQ/PEAKD, PSA	G185M 1850 A	CENTER=DEF; STEP-SIZE=0.9; NUM-POS=5			0.4 Secs (0.4 Secs) [==>]	[1]
	3	PEAKD Che ck (COS.ta.632 023)	(2) GD71	COS/FUV, ACQ/PEAKD, PSA	G160M 1577 A	CENTER=DEF; STEP-SIZE=0.9; NUM-POS=5; SEGMENT=A; LIFETIME-POS=A LTERNATE			0.2 Secs (0.2 Secs) [==>]	[1]
	4	G160M/157 7 (COS.sp.629 447)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1577 A	SEGMENT=A; FP-POS=ALL; BUFFER-TIME=140; LIFETIME-POS=A LTERNATE			245 Secs (980 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]
	5	G160M/158 9 (COS.sp.629 450)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1589 A	SEGMENT=A; FP-POS=ALL; BUFFER-TIME=115; LIFETIME-POS=A LTERNATE			225 Secs (900 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1] [2]
	6	G160M/160 0 (COS.sp.629 448)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1600 A	SEGMENT=A; FP-POS=ALL; BUFFER-TIME=140; LIFETIME-POS=A LTERNATE			250 Secs (1000 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[2] [3]
	7	G160M/162 3 (COS.sp.629 449)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1623 A	SEGMENT=A; FP-POS=ALL; BUFFER-TIME=240; LIFETIME-POS=A LTERNATE			350 Secs (1400 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[3]
	8	G160M/161 1 (COS.sp.629 451)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1611 A	SEGMENT=A; FP-POS=ALL; BUFFER-TIME=190; LIFETIME-POS=A LTERNATE			300 Secs (1200 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[4]



Orbit 2

Server Version: 20140605



Orbit 3

Server Version: 20140605

