



# 16466 - COS FUV LP5 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial Resolution

Cycle: 28, 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	3	12-Mar-2021 09:01:16.0	yes
51	(1) WD0308-565	COS/FUV COS/NUV	3	12-Mar-2021 09:01:18.0	yes
02	(1) WD0308-565	COS/FUV COS/NUV	2	12-Mar-2021 09:01:20.0	yes
52	(1) WD0308-565	COS/FUV COS/NUV	1	12-Mar-2021 09:01:21.0	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>
03	(1) WD0308-565	COS/FUV COS/NUV	2	12-Mar-2021 09:01:21.0	yes
04	(1) WD0308-565	COS/FUV COS/NUV	2	12-Mar-2021 09:01:23.0	yes
05	(1) WD0308-565	COS/FUV COS/NUV	1	12-Mar-2021 09:01:24.0	yes

14 Total Orbits Used

### **ABSTRACT**

Observations of the spectrophotometric white dwarf standard star WD0308-565 will be obtained at all cenwaves that are moving to LP5, and G140L/800, which is moving to LP3. All FP-POS will be used for the observations except for G130M/1291/FUVB, for which only FP-POS=3, 4 will be used in order to comply with the COS2025 rules.

The data will be used to determine the 2D cross-dispersion spectral profiles and traces required to perform two-zone extraction, as well as the sensitivities and flat-fields for accurate flux calibration. Additionally, the data will be used to determine the spatial resolution of the detectors. The main requirement for this program is to achieve S/N of about 50 per resel, which is driven by the requirement for obtaining profiles that are sufficiently accurate that the contours can be located such that the enclosed flux errors are less than 1%. This program ties in with the FUV spectroscopic sensitivity monitoring program at LP4 during which near-contemporaneous observations at the new LPs will be obtained to monitor any rapid evolution in the gain.

### **OBSERVING DESCRIPTION**

Updates for LP5/LP3

LP4: Data were obtained at all cenwaves except the blue modes at S/N ~50/resel

LP5/LP3: We will only need data at LP5 for G130M/1291,1300,1309,1318,1327 and at LP3 for G140L/800 (lower S/N requirement)

LP4: The main target was WD0308-565, but we also needed to observe GD71 to get better data for FUV on G160M

LP5/LP3: We will use WD0308-565 for both LP5 and LP3, and we no longer need to use GD71

LP4: All cenwaves were observed at all four FPPOS

LP5/LP3: We will need to abide by COS2025 rules for G130M at LP5, so G130M/1291/FUVB will be observed only at FPPOS=3 and 4; G140L/800 at LP3 can have all FPPOS

Two ACQ exposures have been specified for each visit to get the target more accurately centered.

For LP4, a special requirement for the Guide Stars, BASE1B3, was added by the PC to each ACQ exposure.

The visits for this program are modeled on those in 14910 for the G130M modes, and in program 15483 for G140L/800. Due to the decrease in sensitivity with time, the exposure times per cenwave need to be longer compared with those in the earlier programs.

Proposal 16466 - LP5 G130M 1291 and 1300 (01) - COS FUV LP5 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial ...

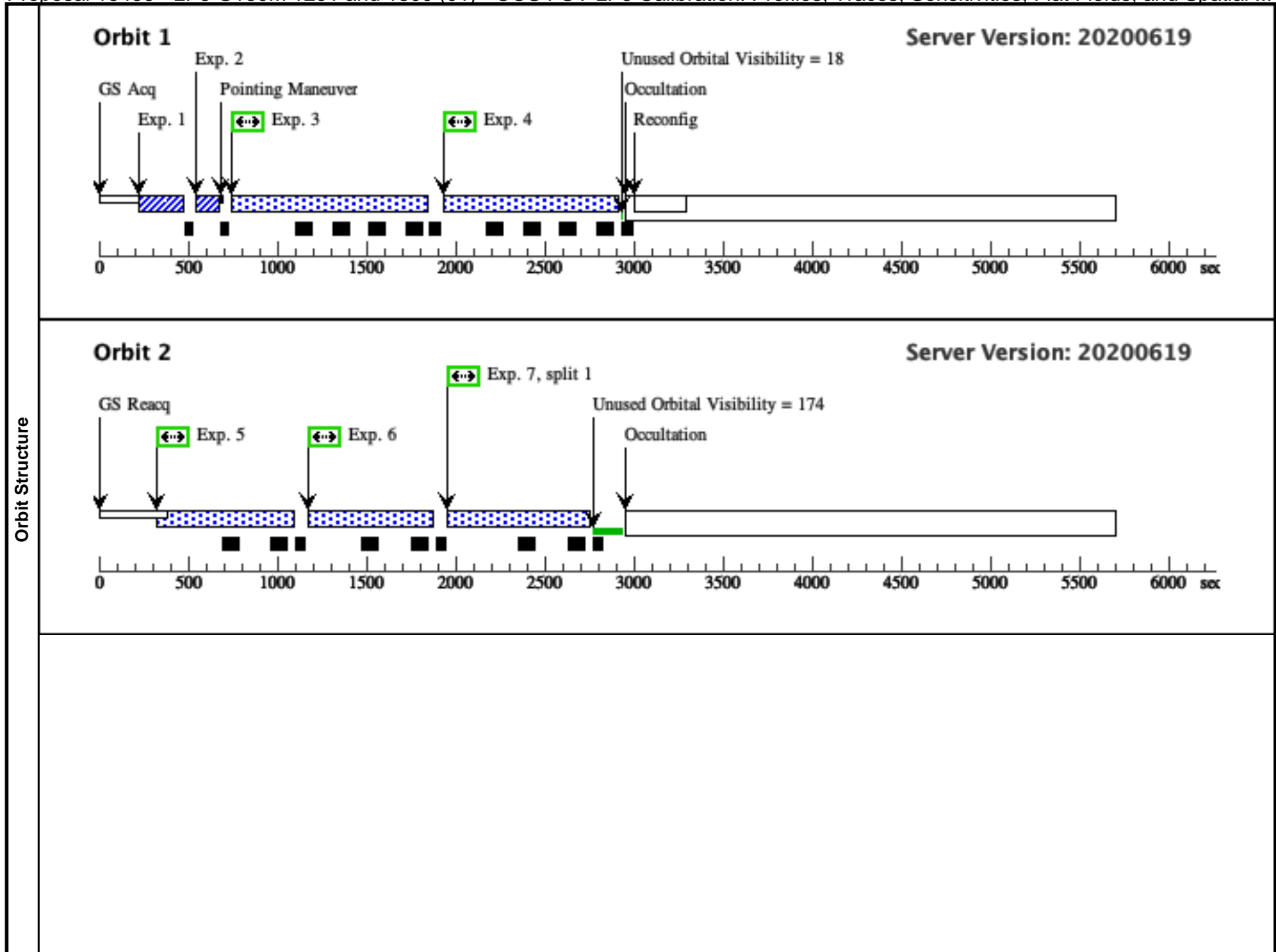
<b>Visit</b>	<p><b>Proposal 16466, LP5 G130M 1291 and 1300 (01), implementation</b> <span style="float: right;">Fri Mar 12 14:01:24 GMT 2021</span></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%</p> <p><i>Comments: Target WD 0308-565</i></p> <p><i>Profiles for G130M/1291 and G130M/1300 set the requirements</i></p> <p><i>Goal is S/N~50/resel over most of the bandpass</i></p>																																			
	<b>Diagnostics</b>	<p>(LP5 G130M 1291 and 1300 (01)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS</p>																																		
<b>Fixed Targets</b>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th data-bbox="136 506 241 539">#</th> <th data-bbox="241 506 472 539">Name</th> <th data-bbox="472 506 892 539">Target Coordinates</th> <th data-bbox="892 506 1249 539">Targ. Coord. Corrections</th> <th data-bbox="1249 506 1564 539">Fluxes</th> <th data-bbox="1564 506 2005 539">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td data-bbox="136 539 241 571">(1)</td> <td data-bbox="241 539 472 571">WD0308-565</td> <td data-bbox="472 539 892 571">RA: 03 09 47.9178 (47.4496575d)</td> <td data-bbox="892 539 1249 571">Proper Motion RA: 149.241 mas/yr</td> <td data-bbox="1249 539 1564 571">V=14.14+/-0.02</td> <td data-bbox="1564 539 2005 571">Reference Frame: ICRS</td> </tr> <tr> <td></td> <td></td> <td data-bbox="472 571 892 604">Dec: -56 23 49.41 (-56.39706d)</td> <td data-bbox="892 571 1249 604">Proper Motion Dec: 66.919 mas/yr</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td data-bbox="472 604 892 636">Equinox: J2000</td> <td data-bbox="892 604 1249 636">Epoch of Position: 2000</td> <td></td> <td></td> </tr> <tr> <td colspan="6" data-bbox="136 636 2005 750"> <p><i>Comments: Coordinates and proper motions from SIMBAD, using GAIA DR2 catalog.</i></p> <p><i>V magnitude from SIMBAD, based on UCAC4.</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[DB]</i></p> <p><i>Extended=NO</i></p> </td> </tr> </tbody> </table>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	WD0308-565	RA: 03 09 47.9178 (47.4496575d)	Proper Motion RA: 149.241 mas/yr	V=14.14+/-0.02	Reference Frame: ICRS			Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr					Equinox: J2000	Epoch of Position: 2000			<p><i>Comments: Coordinates and proper motions from SIMBAD, using GAIA DR2 catalog.</i></p> <p><i>V magnitude from SIMBAD, based on UCAC4.</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[DB]</i></p> <p><i>Extended=NO</i></p>				
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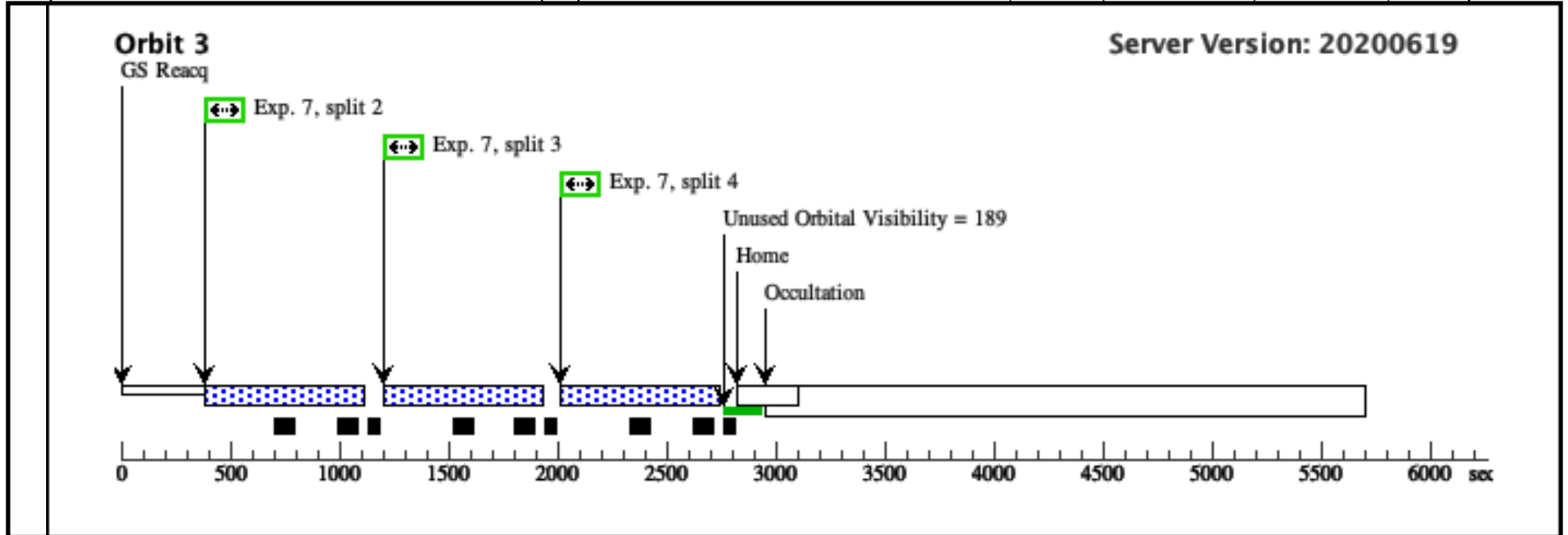
Proposal 16466 - LP5 G130M 1291 and 1300 (01) - COS FUV LP5 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial ...

#	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.146 8946)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			11 Secs (11 Secs) [==>]	[1]	
	<i>Comments: S/N = 30 reached in 10.5 seconds using NUV ACQ/IM Mirror A/BOA</i>									
	2	ACQ/IM (COS.ta.146 8946)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			11 Secs (11 Secs) [==>]	[1]	
	<i>Comments: S/N = 30 reached in 10.5 seconds using NUV ACQ/IM Mirror A/BOA</i>									
	3	G130M/129 1 - FPPOS= 3 Seg=BOT H (COS.sp.147 2462)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P5; BUFFER-TIME=20 5; SEGMENT=BOTH			930 Secs (930 Secs) [==>]	[1]
	<i>Comments: Exposure time motivated by FUVB requirements; S/N ~ 43 at 1140A, and &gt;50 beyond 1160A. ETC reported Buffer Time is 323 s; BUFFER-TIME = (930 - 110) / 4 = 205 s.</i>									
4	G130M/129 1 - FPPOS= 4 Seg=BOT H (COS.sp.147 2462)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P5; BUFFER-TIME=20 5; SEGMENT=BOTH			930 Secs (930 Secs) [==>]	[1]	
<i>Comments: Exposure time motivated by FUVB requirements; S/N ~ 43 at 1140A, and &gt;50 beyond 1160A. ETC reported Buffer Time is 323 s; BUFFER-TIME = (900 - 110) / 4 = 205 s.</i>										
5	G130M/129 1 - FPPOS= 1 Seg=A (COS.sp.147 2400)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; LIFETIME-POS=L P5; BUFFER-TIME=27 0; SEGMENT=A			650 Secs (650 Secs) [==>]	[2]	
<i>Comments: S/N = 50 at 1430A. ETC reported Buffer Time is 323 s. This is for both segments, and will be longer (&gt; 700 sec) for Segment A only. BUFFER-TIME = (650 - 110) / 2 = 270 s.</i>										
6	G130M/129 1 - FPPOS= 2 Seg=A (COS.sp.147 2400)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; LIFETIME-POS=L P5; BUFFER-TIME=27 0; SEGMENT=A			650 Secs (650 Secs) [==>]	[2]	
<i>Comments: S/N = 50 at 1430A. ETC reported Buffer Time is 323 s. This is for both segments, and will be longer (&gt; 700 sec) for Segment A only. BUFFER-TIME = (650 - 110) / 2 = 270 s.</i>										

Proposal 16466 - LP5 G130M 1291 and 1300 (01) - COS FUV LP5 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial ...

7	G130M/130 (1) WD0308-565 0 - FPPOS= ALL Seg=A (COS.sp.147 2404)	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=ALL; BUFFER-TIME=28 4; LIFETIME-POS=L P5; SEGMENT=A	679 Secs (2716 Secs)	
					[==>(Split 1)]	[2]
					[==>(Split 2)]	
					[==>(Split 3)]	[3]
<p>Comments: S/N = 50 at 1440A.</p> <p>ETC reported Buffer Time is 323 s. This is for both segments, and will be longer (&gt; 800 sec) for Segment A only.</p> <p><math>BUFFER-TIME = (679 - 110) / 2 = 284</math> s.</p>						







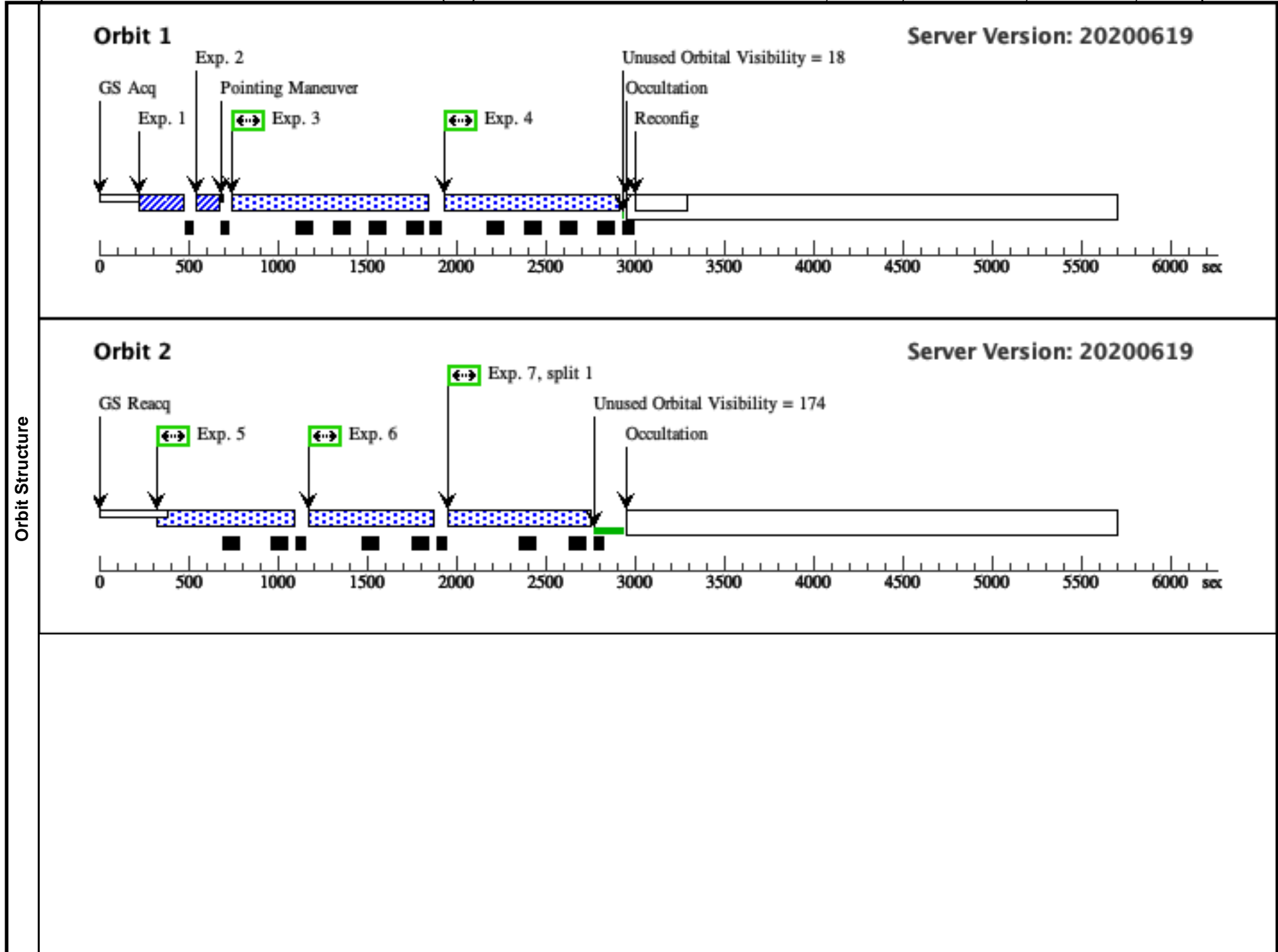
<b>Visit</b>	<p><b>Proposal 16466, LP5 G130M 1291 and 1300 (51)</b> <span style="float: right;">Fri Mar 12 14:01:24 GMT 2021</span></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%</p> <p><i>Comments: Target WD 0308-565</i></p> <p><i>Profiles for G130M/1291 and G130M/1300 set the requirements</i></p> <p><i>Goal is S/N~50/resel over most of the bandpass</i></p> <p><i>Copy of visit 01 to remove it from the link set with visit 02 - 05.</i></p>																
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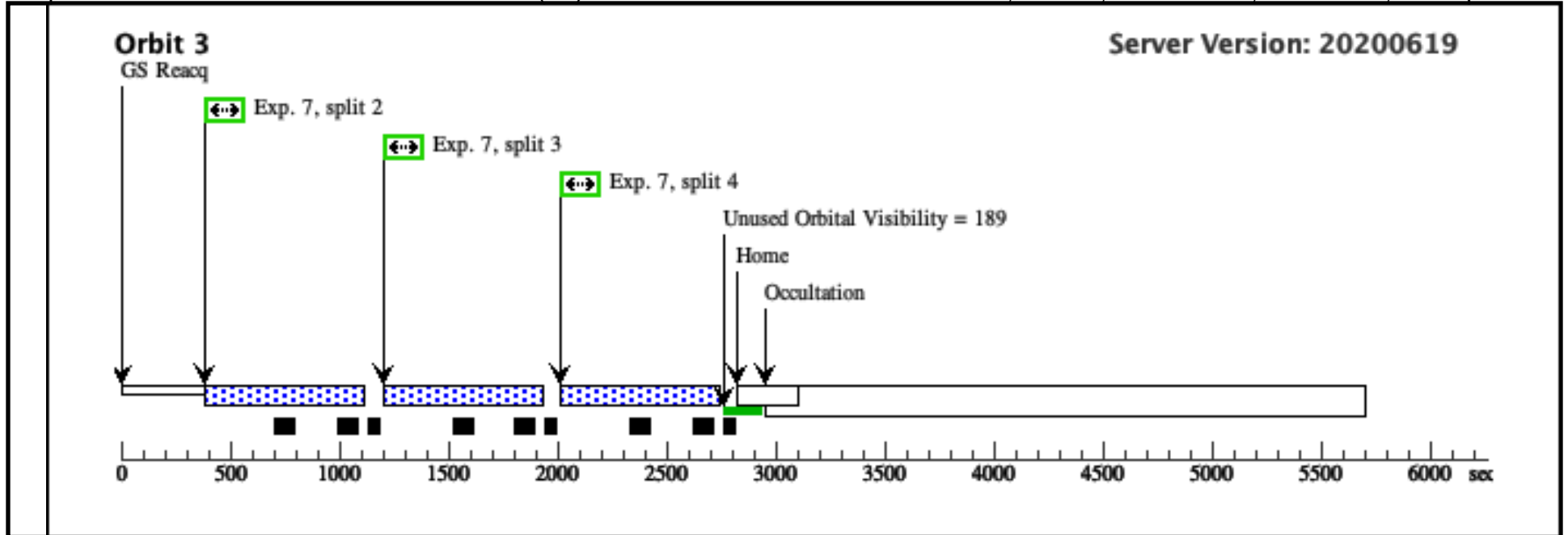
Proposal 16466 - LP5 G130M 1291 and 1300 (51) - COS FUV LP5 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial ...

#	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.146 8946)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			11 Secs (11 Secs) [==>]	[1]	
	<i>Comments: S/N = 30 reached in 10.5 seconds using NUV ACQ/IM Mirror A/BOA</i>									
	2	ACQ/IM (COS.ta.146 8946)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			11 Secs (11 Secs) [==>]	[1]	
	<i>Comments: S/N = 30 reached in 10.5 seconds using NUV ACQ/IM Mirror A/BOA</i>									
	3	G130M/129 1 - FPPOS= 3 Seg=BOT H (COS.sp.147 2462)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P5; BUFFER-TIME=20 5; SEGMENT=BOTH			930 Secs (930 Secs) [==>]	[1]
	<i>Comments: Exposure time motivated by FUVB requirements; S/N ~ 43 at 1140A, and &gt;50 beyond 1160A. ETC reported Buffer Time is 323 s; BUFFER-TIME = (930 - 110) / 4 = 205 s.</i>									
4	G130M/129 1 - FPPOS= 4 Seg=BOT H (COS.sp.147 2462)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P5; BUFFER-TIME=20 5; SEGMENT=BOTH			930 Secs (930 Secs) [==>]	[1]	
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5	G130M/129 1 - FPPOS= 1 Seg=A (COS.sp.147 2400)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; LIFETIME-POS=L P5; BUFFER-TIME=27 0; SEGMENT=A			650 Secs (650 Secs) [==>]	[2]	
<i>Comments: S/N = 50 at 1430A. ETC reported Buffer Time is 323 s. This is for both segments, and will be longer (&gt; 700 sec) for Segment A only. BUFFER-TIME = (650 - 110) / 2 = 270 s.</i>										
6	G130M/129 1 - FPPOS= 2 Seg=A (COS.sp.147 2400)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; LIFETIME-POS=L P5; BUFFER-TIME=27 0; SEGMENT=A			650 Secs (650 Secs) [==>]	[2]	
<i>Comments: S/N = 50 at 1430A. ETC reported Buffer Time is 323 s. This is for both segments, and will be longer (&gt; 700 sec) for Segment A only. BUFFER-TIME = (650 - 110) / 2 = 270 s.</i>										

Proposal 16466 - LP5 G130M 1291 and 1300 (51) - COS FUV LP5 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial ...

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					[==>(Split 1)]	[2]
					[==>(Split 2)]	
					[==>(Split 3)]	[3]
<p>Comments: S/N = 50 at 1440A.</p> <p>ETC reported Buffer Time is 323 s. This is for both segments, and will be longer (&gt; 800 sec) for Segment A only.</p> <p>BUFFER-TIME = (679 - 110) / 2 = 284 s.</p>					[==>(Split 4)]	

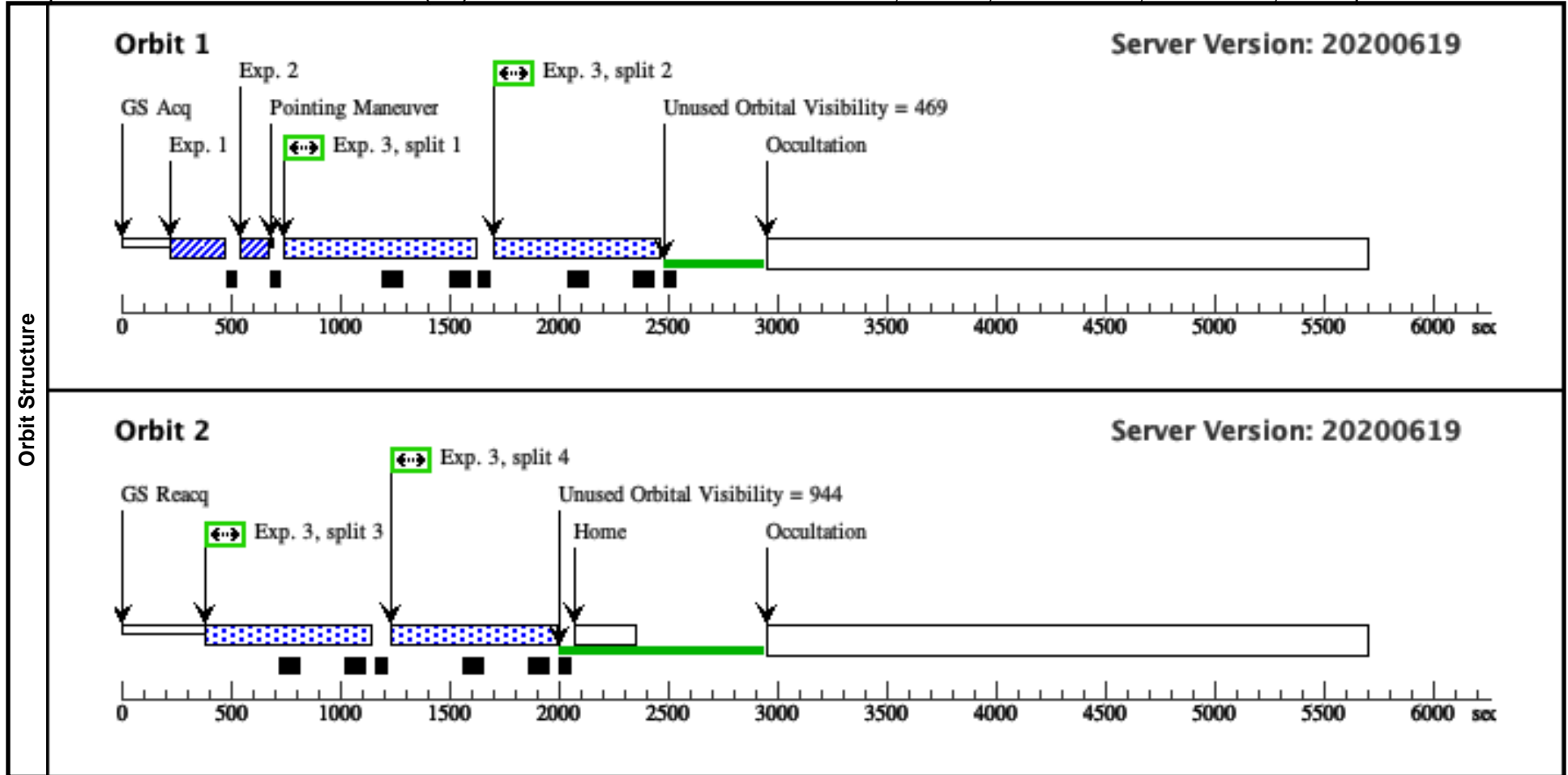




Proposal 16466 - LP5 G130M 1309 (02) - COS FUV LP5 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial Resolution

Fri Mar 12 14:01:24 GMT 2021

<b>Visit</b>	<p><b>Proposal 16466, LP5 G130M 1309 (02), failed</b></p> <p><b>Diagnostic Status: No Diagnostics</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; GROUP 02,01,03,04 WITHIN 7D</p> <p>Comments: Target WD 0308-565</p> <p>Profiles for G130M/1309 set the requirements</p> <p>Goal is S/N~50/resel over most of the bandpass</p>																																																																																																			
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Proposal 16466 - LP5 G130M 1309 (52) - COS FUV LP5 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial Resolution

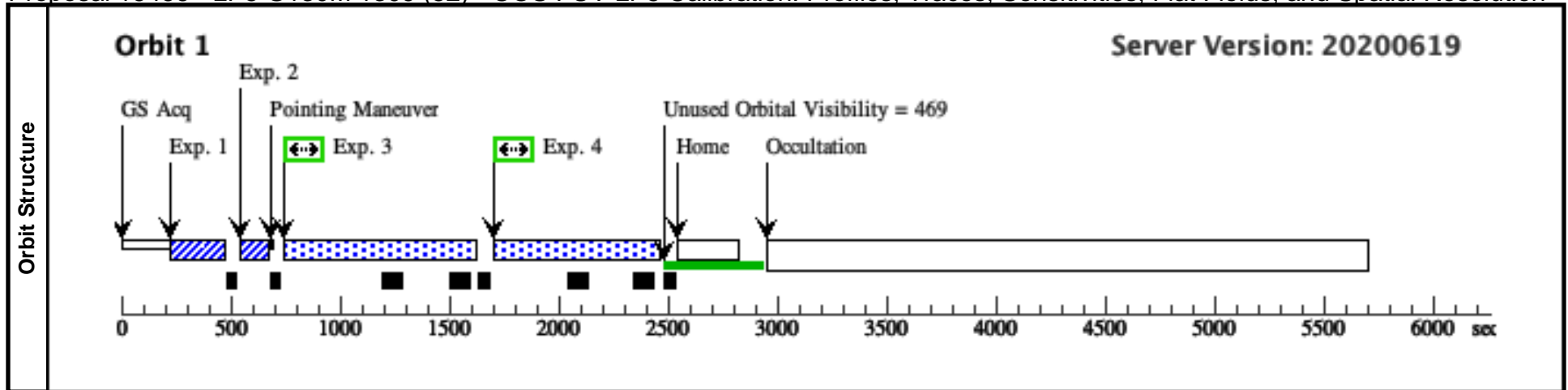
Fri Mar 12 14:01:25 GMT 2021

<b>Visit</b>	<b>Proposal 16466, LP5 G130M 1309 (52), scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100% Comments: Target WD 0308-565  Profiles for G130M/1309 set the requirements  Goal is S/N~50/resel over most of the bandpass  Repeat visit for failed 2nd orbit during visit 02; FP-POS=ALL replaced by separate FP-POS=3 and 4 exposures.				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	WD0308-565	RA: 03 09 47.9178 (47.4496575d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000	V=14.14+/-0.02	Reference Frame: ICRS
Comments: Coordinates and proper motions from SIMBAD, using GAIA DR2 catalog. V magnitude from SIMBAD, based on UCAC4. Category=STAR Description=[DB] Extended=NO						

<b>Exposures</b>	#	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.146 8946)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				11 Secs (11 Secs) [==>]
Comments: S/N = 30 reached in 10.5 seconds using NUV ACQ/IM Mirror A/BOA										
2		ACQ/IM (COS.ta.146 8946)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				11 Secs (11 Secs) [==>]	[1]
Comments: S/N = 30 reached in 10.5 seconds using NUV ACQ/IM Mirror A/BOA										
	3	G130M/130 9 - FPPOS= 3 Seg=A (COS.sp.147 2406)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=3; BUFFER-TIME=29 9; LIFETIME-POS=L P5; SEGMENT=A			708 Secs (708 Secs) [==>]	[1]
	Comments: S/N = 50 at 1447A.									
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	4	G130M/130 9 - FPPOS= 4 Seg=A (COS.sp.147 2406)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=4; BUFFER-TIME=29 9; LIFETIME-POS=L P5; SEGMENT=A			708 Secs (708 Secs) [==>]	[1]
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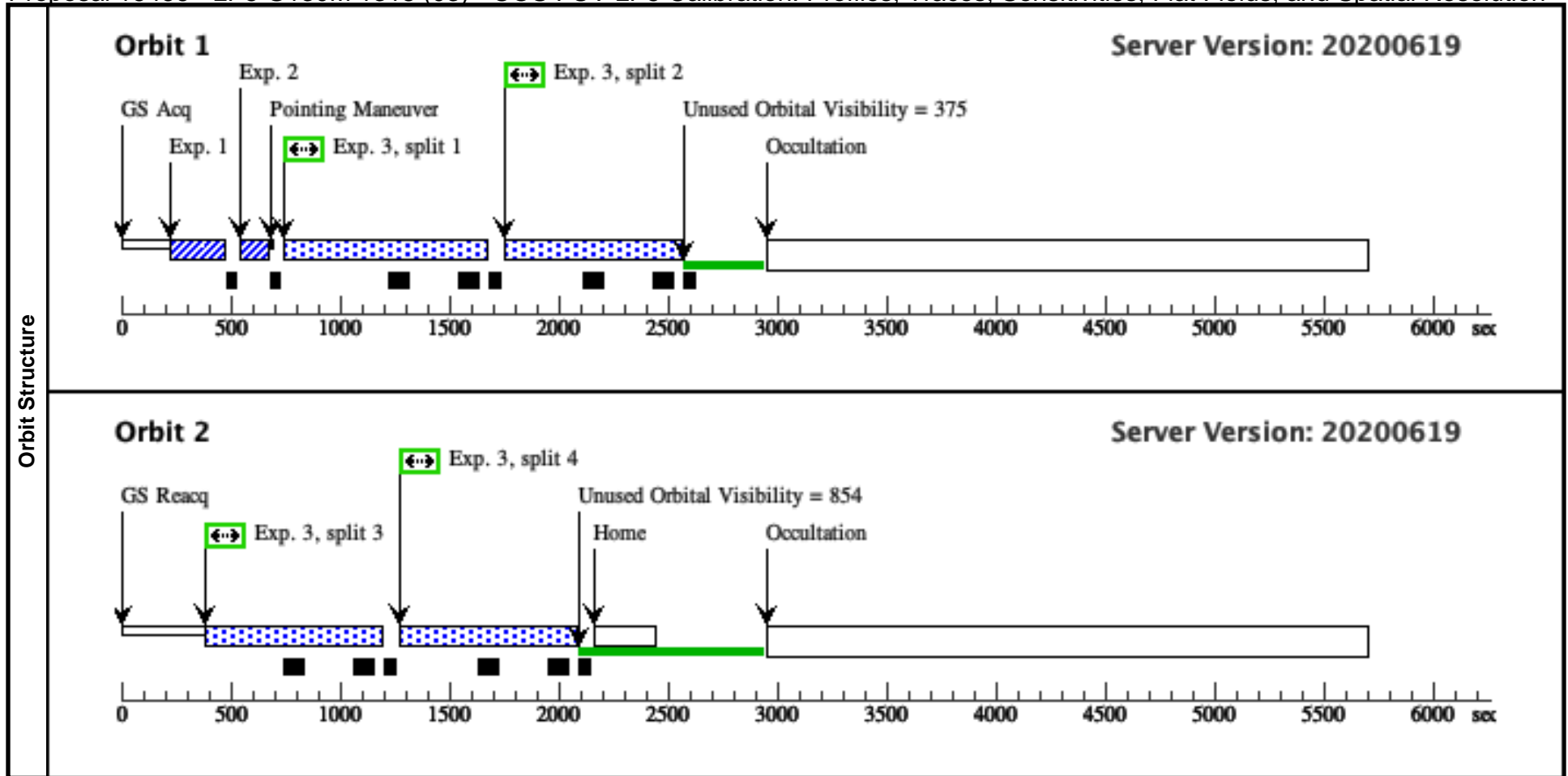




Proposal 16466 - LP5 G130M 1318 (03) - COS FUV LP5 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial Resolution

Fri Mar 12 14:01:25 GMT 2021

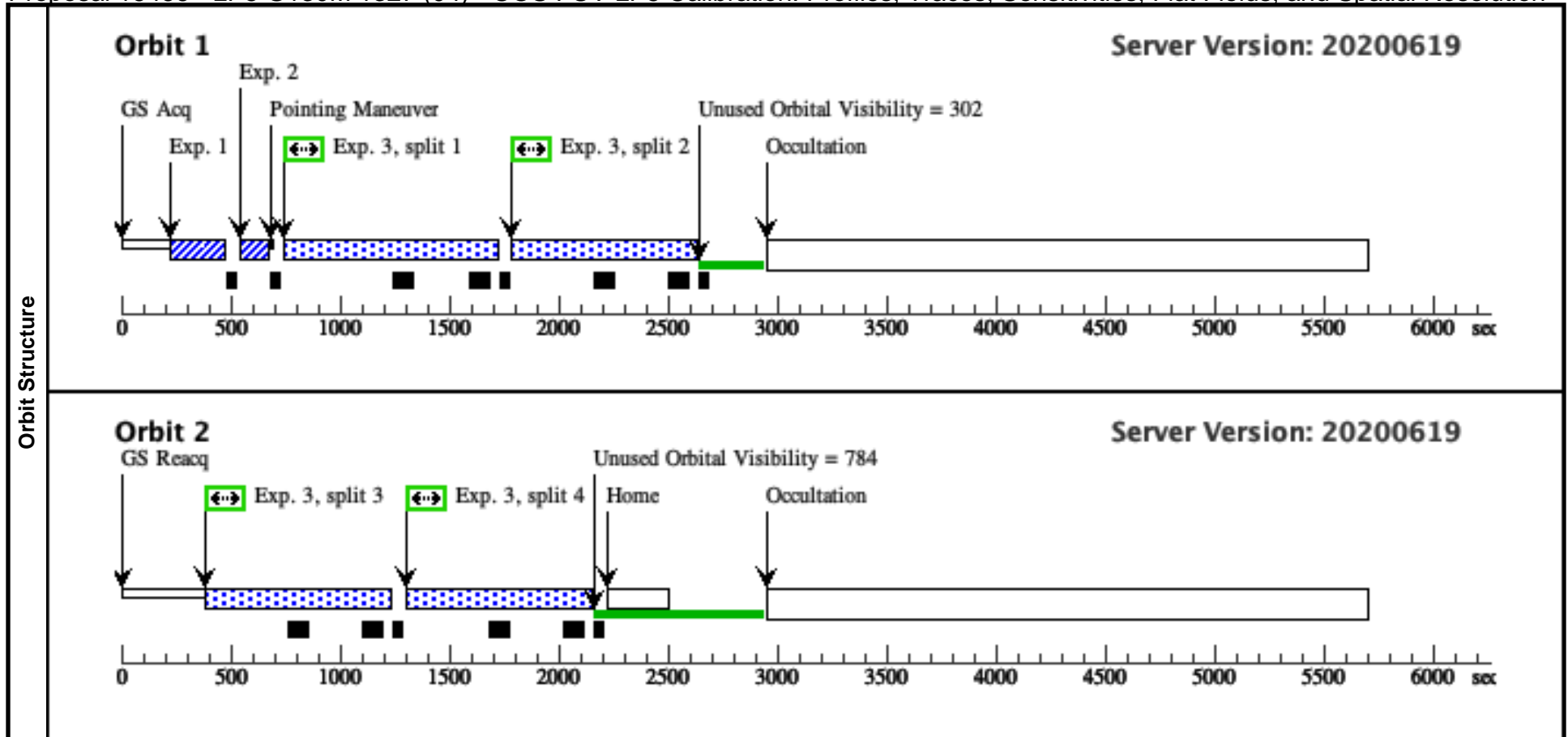
<b>Visit</b>	<p><b>Proposal 16466, LP5 G130M 1318 (03), completed</b></p> <p><b>Diagnostic Status: No Diagnostics</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; GROUP 03,01,02,04 WITHIN 7D</p> <p>Comments: Target WD 0308-565</p> <p>Profiles for G130M/1318 set the requirements</p> <p>Goal is S/N~50/resel over most of the bandpass</p>																																																																																																			
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Proposal 16466 - LP5 G130M 1327 (04) - COS FUV LP5 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial Resolution

Fri Mar 12 14:01:25 GMT 2021

<b>Visit</b>	<p><b>Proposal 16466, LP5 G130M 1327 (04), completed</b></p> <p><b>Diagnostic Status: No Diagnostics</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; GROUP 04,01,02,03 WITHIN 7D</p> <p>Comments: Target WD 0308-565</p> <p>Profiles for G130M/1327 set the requirements</p> <p>Goal is S/N~50/resel over most of the bandpass</p>																																																																																																			
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Proposal 16466 - LP3 G140L 800 (05) - COS FUV LP5 Calibration: Profiles, Traces, Sensitivities, Flat Fields, and Spatial Resolution

Fri Mar 12 14:01:25 GMT 2021

<b>Visit</b>	<p><b>Proposal 16466, LP3 G140L 800 (05), completed</b></p> <p><b>Diagnostic Status: No Diagnostics</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 50%</p> <p>Comments: Target WD 0308-565</p> <p>Profiles for G140L/800 set the requirements</p> <p>Goal is S/N~10/resel in the short-wavelength region (915-1050A)</p> <p>Schedulability has been set to 50 to ensure that orbit is long enough for getting the total time on target</p>																										
	<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 47.9178 (47.4496575d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000</td> <td>Proper Motion RA: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000</td> <td>V=14.14+/-0.02</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"> <p>Comments: Coordinates and proper motions from SIMBAD, using GAIA DR2 catalog. V magnitude from SIMBAD, based on UCAC4. Category=STAR Description=[DB] Extended=NO</p> </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	WD0308-565	RA: 03 09 47.9178 (47.4496575d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000	V=14.14+/-0.02	Reference Frame: ICRS	<p>Comments: Coordinates and proper motions from SIMBAD, using GAIA DR2 catalog. V magnitude from SIMBAD, based on UCAC4. Category=STAR Description=[DB] Extended=NO</p>				
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<b>Fixed Targets</b>																											
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>																	
	1	ACQ/IM (COS.ta.146 8946)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				11 Secs (11 Secs) [==>]	[1]																	
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3	G140L/800 - FPPOS=AL L Seg=A (COS.sp.147 2412)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=ALL; LIFETIME-POS=L P3; SEGMENT=A; BUFFER-TIME=170				450 Secs (1800 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]																	
<p>Comments: At the shorter wavelength end, getting an S/N~50 is not possible, given the low throughput. While implementing cenwave 800 for the first time (at LP4), the S/N requirement was modified. It was shown that with adequate smoothing/binning, an S/N ~ 5 to 10 per resel in the short wavelength region would yield sufficiently reliable profiles and flux calibration. This was implemented in program 15483, in which the exposure time was 1450 seconds. Using that as a baseline, the current exposure time has been chosen to account for the decline in sensitivity, and to obtain an S/N ~ 10 in the short wavelength region. An S/N of &gt;50 is achieved over most of the bandpass.</p> <p>ETC reported Buffer Time is 350s; BUFFER-TIME = (450 - 110) / 2 = 170 s.</p>																											

