



17885 - FUV Focus Sweep Enabling Program at LP7/LP10

Cycle: 32, 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) FEIGE-48 NONE	COS COS/FUV COS/NUV	4	01-Jul-2025 14:00:19.0	yes
02	(1) FEIGE-48 NONE	COS COS/FUV COS/NUV	4	01-Jul-2025 14:00:24.0	yes

Proposal 17885 (STScI Edit Number: 0, Created: Tuesday, July 1, 2025, 1:00:35PM Eastern Standard Time) - Overview

<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) FEIGE-48 NONE	COS COS/FUV COS/NUV	2	01-Jul-2025 14:00:27.0	yes
04	(2) AG+81-266 NONE	COS COS/FUV COS/NUV	3	01-Jul-2025 14:00:30.0	yes
05	(1) FEIGE-48 NONE	COS COS/FUV COS/NUV	4	01-Jul-2025 14:00:32.0	yes
06	(3) CD-22-9142 NONE	COS COS/FUV COS/NUV	3	01-Jul-2025 14:00:35.0	yes

20 Total Orbits Used

ABSTRACT

This enabling program performs a focus sweep for the G130M/1222, G130M/1291, G130M/1055, and G130M/1096 settings at Lifetime Position 7 (LP7) at +8.3" on the FUV detector and the G160M cenwaves at Lifetime Position 10 (LP10) at -3.7" on the FUV detector. The focus sweep will determine the optimal focus values to ensure the sharpest spectral resolution and minimal absorption line widths. This will be accomplished by scanning at focus step increments from -1000 to +1000 relative to the predicted best focuses for the G130M/1222 and G130M/1291 FUV settings, from -800 to +1000 for the G130M/1291 FUVB setting, from -300 to +1400 for the G130M/1096 setting, from -1000 to +1000 for the G160M/1600 FUV setting, and from -800 to +800 for the G160M/1600 FUVB setting. This strategy is based off of several earlier programs (PIDs 13635, 14527, 15451, 16431, 16491, 16850), which all executed successfully. We will adjust the focus in steps of 200, with finer, 100-step increments between relative focus steps of -200 and +200.

This program uses Feige 48 for G130M/1222, G130M/1291, G130M/1055, G130M/1096, and G160M Segment B, and AG+81-266 for G160M Segment A. These sdB stars are visible with HST during the required observational window. This program also includes a backup target, CD-22-9142, for G160M/1600 Segment A. The exposure times at each step are defined to provide spectra with S/N ~ 30 in the faintest portion of each spectrum.

OBSERVING DESCRIPTION

The program will execute a focus sweep at G130M/1222 (Visit 01), G130M/1291 (Visit 02), G130M/1096 (Visit 03) to determine the best focus values at LP7, and at G160M/1600 (Visit 04 and Visit 05) to determine the best focus values at LP10.

Within this program, we will be using LP8 in place of LP10.

All visits only use FP-POS=3.

Visits 01 and 02 of Feige 48 are designed as follows:

1. Perform two ACQ/IMAGEs with MIRROR A to acquire target Feige 48 and to counter potential gyro issues.
2. Initial exposure at relative focus offset set to 0, allowing for set up of the correct instrument mode for the focus sweep.
3. Move the focus to -1000 steps from the preliminary absolute focus values of -1400 absolute focus steps for G130M/1222 (Visit 01) and -500 absolute focus steps for G130M/1291 (Visit 02).
4. Take a spectrum with a minimum S/N ~ 30 using FUV A only.
5. Sweep over focus values of -1000 to +1000, in increments of 200 steps with finer, 100 step increments between [-200,+200].
6. With focus at $f = +1000$, take a spectrum with a minimum S/N ~30 using FUV B only.
7. Sweep over focus values of +1000 to -1000 (+1000 to -800 for G130M/1291), in increments of 200 steps with finer, 100 step increments between [-200,+200].
8. Re-set the absolute focus offset to 0.

Visit 03 of Feige 48 is designed as follows:

1. Perform two ACQ/IMAGEs with MIRROR A to acquire target Feige 48 and to counter potential gyro issues.
2. Initial exposure at relative focus offset set to 0, allowing for set up of the correct instrument mode for the focus sweep.
3. Move the focus to -300 steps from the preliminary absolute focus value of -2500 absolute focus steps for G130M/1096 (Visit 03).
4. Take a spectrum with a minimum S/N ~ 30.
5. Sweep over focus values of -300 to +1400, in increments of 200 steps with finer, 100 step increments between [-300,+400].

6. Re-set the absolute focus offset to 0.

Visit 04 of AG+81-266, as well as Visit 06 of CD-22-9142, are designed as follows:

NOTE: Visit 06 of CD-22-9142 is a backup target, and is on hold unless the observation window for AG+81-266 passes

1. Perform two ACQ/IMAGEs with MIRROR B to acquire target AG+81-266 and to counter potential gyro issues.
2. Initial exposure at relative focus offset set to 0, allowing for set up of the correct instrument mode for the focus sweep.
3. Move the focus to -1000 steps from the preliminary absolute focus value of +100 absolute focus steps for G160M/1600 (Visit 04)
4. Take a spectrum with a minimum S/N ~ 30 using FUV A only.
5. Sweep over focus values of -1000 to +1000, in increments of 200 steps with finer, 100 step increments between [-200,+200].
6. Re-set the absolute focus offset to 0.

Visit 05 of Feige 48 is designed as follows:

1. Perform two ACQ/IMAGEs with MIRROR A to acquire target Feige 48 and to counter potential gyro issues.
2. Initial exposure at relative focus offset set to 0, allowing for set up of the correct instrument mode for the focus sweep.
3. Move the focus to -800 steps from the preliminary absolute focus value of +100 absolute focus steps fo G160M/1600 (Visit 05).
4. Take a spectrum with a minimum S/N ~ 30 using FUV B only.
5. Sweep over focus values of -800 to +800, in increments of 200 steps with finer, 100 step increments between [-200,+200].
6. Re-set the absolute focus offset to 0.

NOTE ON OBSERVATIONS TAKEN USING INDIVIDUAL SEGMENTS: As visible in the ETC calculations, the global count rate exceeds the acceptable counts/s value. Exceeding this value results in a loss of data. To counter this, we only use one segment at a time (and for G160M/1600, different targets) , such that global rates are below the threshold.

The soft stops for the OSM focus mechanism are at -2900 and +2505 absolute focus steps. There is no risk of running into the soft stops.

The SIAF to be used includes the following positions:

AP	V2	V3
LFBOA7	230.9137	-239.2749
LFPSA7	238.5920	-231.6460
LAPTFBOAF7	229.2178	-241.0202
LAPTFPSAF7	240.2879	-229.9007
LFBOA8	230.1067	-240.1313
LFPSA8	230.1067	-240.1313
LAPTFBOAF8	220.7325	-249.5055
LAPTFPSAF8	239.4809	-230.7571

The FSW patchable constant table "pcmech_ApMXDispPosition" should use the following positions:

```
{ -49, 126 }, /* PSA_LP7 */  
{ -98, -153 }, /* BOA_LP7 */  
{ -98, -153 }, /* FCA_LP7 */  
{ 32, 126 }, /* WCA_LP7 */  
  
{ 206, 126 }, /* PSA_LP8 */  
{ -73, -153 }, /* BOA_LP8 */  
{ -73, -153 }, /* FCA_LP8 */  
{ 206, 126 } /* WCA_LP8 */
```

The HV values should be:

LP7 FUVA/FUVB = 163/163

LP10 FUVA/FUVB = 178/175

Proposal 17885 (STScI Edit Number: 0, Created: Tuesday, July 1, 2025, 1:00:35PM Eastern Standard Time) - Overview

Wavecalcs are turned off for observations at LP7 to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)

----SPECIAL REQUESTS:-----

(1) Please turn off calibration for the COS/FUV exposures. This data should not be used for scientific purposes due to non-finalized pointing and focus values.

(2) Please disassociate all exposures. All data that is not calibrated must be disassociated to make it into the archive.

SQL is used to meet the above requests. In (1), qexposure.control_id is modified. In (2), qeassociation records are deleted. Contact G. Chapman/M. Reinhart for further information about this process.mm

Proposal 17885 - G130M/1222 Feige 48 LP7 (01) - FUV Focus Sweep Enabling Program at LP7/LP10

Visit	<p>Proposal 17885, G130M/1222 Feige 48 LP7 (01), completed Tue Jul 01 18:00:35 GMT 2025 Diagnostic Status: Warning Scientific Instruments: COS, COS/FUV, COS/NUV Special Requirements: SCHED 100%</p>												
	Diagnostics	<p>(G130M/1222 Feige 48 LP7 (01)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave.</p>											
Fixed Targets		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">#</th> <th style="width: 15%;">Name</th> <th style="width: 25%;">Target Coordinates</th> <th style="width: 25%;">Targ. Coord. Corrections</th> <th style="width: 10%;">Fluxes</th> <th style="width: 20%;">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>FEIGE-48</td> <td>RA: 11 47 14.4421 (176.8101754d) Dec: +61 15 31.68 (61.25880d) Equinox: J2000</td> <td>Proper Motion RA: -0.0035937440813851103 sec of time/yr Proper Motion Dec: -0.007394999965981697 arcsec/yr Epoch of Position: 2015.5</td> <td>V=13.28</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	FEIGE-48	RA: 11 47 14.4421 (176.8101754d) Dec: +61 15 31.68 (61.25880d) Equinox: J2000	Proper Motion RA: -0.0035937440813851103 sec of time/yr Proper Motion Dec: -0.007394999965981697 arcsec/yr Epoch of Position: 2015.5	V=13.28
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(1)	FEIGE-48	RA: 11 47 14.4421 (176.8101754d) Dec: +61 15 31.68 (61.25880d) Equinox: J2000	Proper Motion RA: -0.0035937440813851103 sec of time/yr Proper Motion Dec: -0.007394999965981697 arcsec/yr Epoch of Position: 2015.5	V=13.28	Reference Frame: ICRS								
<p><i>Comments: This object was generated by the target selector and retrieved from the SIMBAD database.</i> Category=EXT-STAR Description=[SDB] Extended=NO</p>													

Proposal 17885 - G130M/1222 Feige 48 LP7 (01) - FUV Focus Sweep Enabling Program at LP7/LP10

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IMAG E (COS.ta.193 7057)	(1) FEIGE-48	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			4 Secs (4 Secs) [==>]	[1]	
	<i>Comments: S/N = 30</i>									
	2	ACQ/IMAG E (COS.ta.193 7057)	(1) FEIGE-48	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			4 Secs (4 Secs) [==>]	[1]	
	<i>Comments: S/N = 30</i>									
	3	Initialize G130M/1222 at nominal aperture and focus position (COS.sp.193 9775)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=103; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A			0.1 Secs (0.1 Secs) [==>]	[1]
	4	Move to -1000	NONE	COS, ALIGN/OSM		FOCUS=-1000			0 Secs (0 Secs) [==>]	[1]
	5	g130m_1222_segA_f-1000 (COS.sp.193 9775)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=103; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A			177 Secs (177 Secs) [==>]	[1]
	<i>Comments: This exposure time gives S/N=30 at 1349A. Wavecalcs are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</i>									
6	Move to -800	NONE	COS, ALIGN/OSM		FOCUS=-800			0 Secs (0 Secs) [==>]	[1]	
7	g130m_1222_segA_f-800 (COS.sp.193 9775)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=103; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A			177 Secs (177 Secs) [==>]	[1]	
<i>Comments: This exposure time gives S/N=30 at 1349A. Wavecalcs are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</i>										
8	Move to -600	NONE	COS, ALIGN/OSM		FOCUS=-600			0 Secs (0 Secs) [==>]	[1]	

Proposal 17885 - G130M/1222 Feige 48 LP7 (01) - FUV Focus Sweep Enabling Program at LP7/LP10

9	g130m_122 2_segA_f-6 00 (COS.sp.193 9775)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=10 3; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	177 Secs (177 Secs) [==>]	[1]
<p>Comments: This exposure time gives S/N=30 at 1349A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>							
10	Move to -40 0	NONE	COS, ALIGN/OSM		FOCUS=-400	0 Secs (0 Secs) [==>]	[1]
11	g130m_122 2_segA_f-4 00 (COS.sp.193 9775)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=10 3; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	177 Secs (177 Secs) [==>]	[1]
<p>Comments: This exposure time gives S/N=30 at 1349A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>							
12	Move to -20 0	NONE	COS, ALIGN/OSM		FOCUS=-200	0 Secs (0 Secs) [==>]	[1]
13	g130m_122 2_segA_f-2 00 (COS.sp.193 9775)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=10 3; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	177 Secs (177 Secs) [==>]	[1]
<p>Comments: This exposure time gives S/N=30 at 1349A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>							
14	Move to -10 0	NONE	COS, ALIGN/OSM		FOCUS=-100	0 Secs (0 Secs) [==>]	[1]
15	g130m_122 2_segA_f-1 00 (COS.sp.193 9775)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=10 3; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	177 Secs (177 Secs) [==>]	[2]
<p>Comments: This exposure time gives S/N=30 at 1349A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>							

Proposal 17885 - G130M/1222 Feige 48 LP7 (01) - FUV Focus Sweep Enabling Program at LP7/LP10

16	Move to 0	NONE	COS, ALIGN/OSM		FOCUS=0	0 Secs (0 Secs)	
						[==>]	[2]
17	g130m_122 2_segA_f0 (COS.sp.193 9775)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=10 3; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	177 Secs (177 Secs)	[2]
						[==>]	
<p><i>Comments: This exposure time gives S/N=30 at 1349A.</i></p> <p><i>Wavecalcs are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</i></p>							
18	Move to +10 0	NONE	COS, ALIGN/OSM		FOCUS=+100	0 Secs (0 Secs)	
						[==>]	[2]
19	g130m_122 2_segA_f+1 00 (COS.sp.193 9775)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=10 3; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	177 Secs (177 Secs)	[2]
						[==>]	
<p><i>Comments: This exposure time gives S/N=30 at 1349A.</i></p> <p><i>Wavecalcs are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</i></p>							
20	Move to +20 0	NONE	COS, ALIGN/OSM		FOCUS=+200	0 Secs (0 Secs)	
						[==>]	[2]
21	g130m_122 2_segA_f+2 00 (COS.sp.193 9775)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=10 3; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	177 Secs (177 Secs)	[2]
						[==>]	
<p><i>Comments: This exposure time gives S/N=30 at 1349A.</i></p> <p><i>Wavecalcs are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</i></p>							
22	Move to +40 0	NONE	COS, ALIGN/OSM		FOCUS=+400	0 Secs (0 Secs)	
						[==>]	[2]

Proposal 17885 - G130M/1222 Feige 48 LP7 (01) - FUV Focus Sweep Enabling Program at LP7/LP10

23	g130m_122 2_segA_f+4 00 (COS.sp.193 9775)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=10 3; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	POS TARG 0.0,0.0	177 Secs (177 Secs) [==>]	[2]
<p>Comments: This exposure time gives S/N=30 at 1349A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</p>								
24	Move to +60 0	NONE	COS, ALIGN/OSM		FOCUS=+600		0 Secs (0 Secs) [==>]	[2]
25	g130m_122 2_segA_f+6 00 (COS.sp.193 9775)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=10 3; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	POS TARG 0.0,0.0	177 Secs (177 Secs) [==>]	[2]
<p>Comments: This exposure time gives S/N=30 at 1349A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</p>								
26	Move to +80 0	NONE	COS, ALIGN/OSM		FOCUS=+800		0 Secs (0 Secs) [==>]	[2]
27	g130m_122 2_segA_f+8 00 (COS.sp.193 9775)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=10 3; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	POS TARG 0.0,0.0	177 Secs (177 Secs) [==>]	[3]
<p>Comments: This exposure time gives S/N=30 at 1349A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</p>								
28	Move to +10 00	NONE	COS, ALIGN/OSM		FOCUS=+1000		0 Secs (0 Secs) [==>]	[3]
29	g130m_122 2_segA_f+1 000 (COS.sp.193 9775)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=10 3; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	POS TARG 0.0,0.0	177 Secs (177 Secs) [==>]	[3]
<p>Comments: This exposure time gives S/N=30 at 1349A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</p>								

Proposal 17885 - G130M/1222 Feige 48 LP7 (01) - FUV Focus Sweep Enabling Program at LP7/LP10

30	g130m_122 2_segB_f+1 000 (COS.sp.193 9768)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=22 4; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	POS TARG 0.0,0.0	130 Secs (130 Secs) [==>]	[3]
<p>Comments: This exposure time gives S/N=30 at 1160A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>								
31	Move to +80 0	NONE	COS, ALIGN/OSM		FOCUS=+800		0 Secs (0 Secs) [==>]	[3]
32	g130m_122 2_segB_f+8 00 (COS.sp.193 9768)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=22 4; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	POS TARG 0.0,0.0	130 Secs (130 Secs) [==>]	[3]
<p>Comments: This exposure time gives S/N=30 at 1160A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>								
33	Move to +60 0	NONE	COS, ALIGN/OSM		FOCUS=+600		0 Secs (0 Secs) [==>]	[3]
34	g130m_122 2_segB_f+6 00 (COS.sp.193 9768)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=22 4; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	POS TARG 0.0,0.0	130 Secs (130 Secs) [==>]	[3]
<p>Comments: This exposure time gives S/N=30 at 1160A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>								
35	Move to +40 0	NONE	COS, ALIGN/OSM		FOCUS=+400		0 Secs (0 Secs) [==>]	[3]
36	g130m_122 2_segB_f+4 00 (COS.sp.193 9768)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=22 4; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	POS TARG 0.0,0.0	130 Secs (130 Secs) [==>]	[3]
<p>Comments: This exposure time gives S/N=30 at 1160A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>								

Proposal 17885 - G130M/1222 Feige 48 LP7 (01) - FUV Focus Sweep Enabling Program at LP7/LP10

37	Move to +20 0	NONE	COS, ALIGN/OSM		FOCUS=+200	0 Secs (0 Secs)	
						[==>]	[3]
38	g130m_122 2_segB_f+2 00 (COS.sp.193 9768)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=22 4; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	130 Secs (130 Secs)	[3]
<p><i>Comments: This exposure time gives S/N=30 at 1160A.</i></p> <p><i>Wavecals are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</i></p>							
39	Move to +10 0	NONE	COS, ALIGN/OSM		FOCUS=+100	0 Secs (0 Secs)	
						[==>]	[3]
40	g130m_122 2_segB_f+1 00 (COS.sp.193 9768)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=22 4; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	130 Secs (130 Secs)	[4]
<p><i>Comments: This exposure time gives S/N=30 at 1160A.</i></p> <p><i>Wavecals are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</i></p>							
41	Move to 0	NONE	COS, ALIGN/OSM		FOCUS=0	0 Secs (0 Secs)	
						[==>]	[4]
42	g130m_122 2_segB0 (COS.sp.193 9768)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=22 4; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	130 Secs (130 Secs)	[4]
<p><i>Comments: This exposure time gives S/N=30 at 1160A.</i></p> <p><i>Wavecals are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</i></p>							
43	Move to -10 0	NONE	COS, ALIGN/OSM		FOCUS=-100	0 Secs (0 Secs)	
						[==>]	[4]

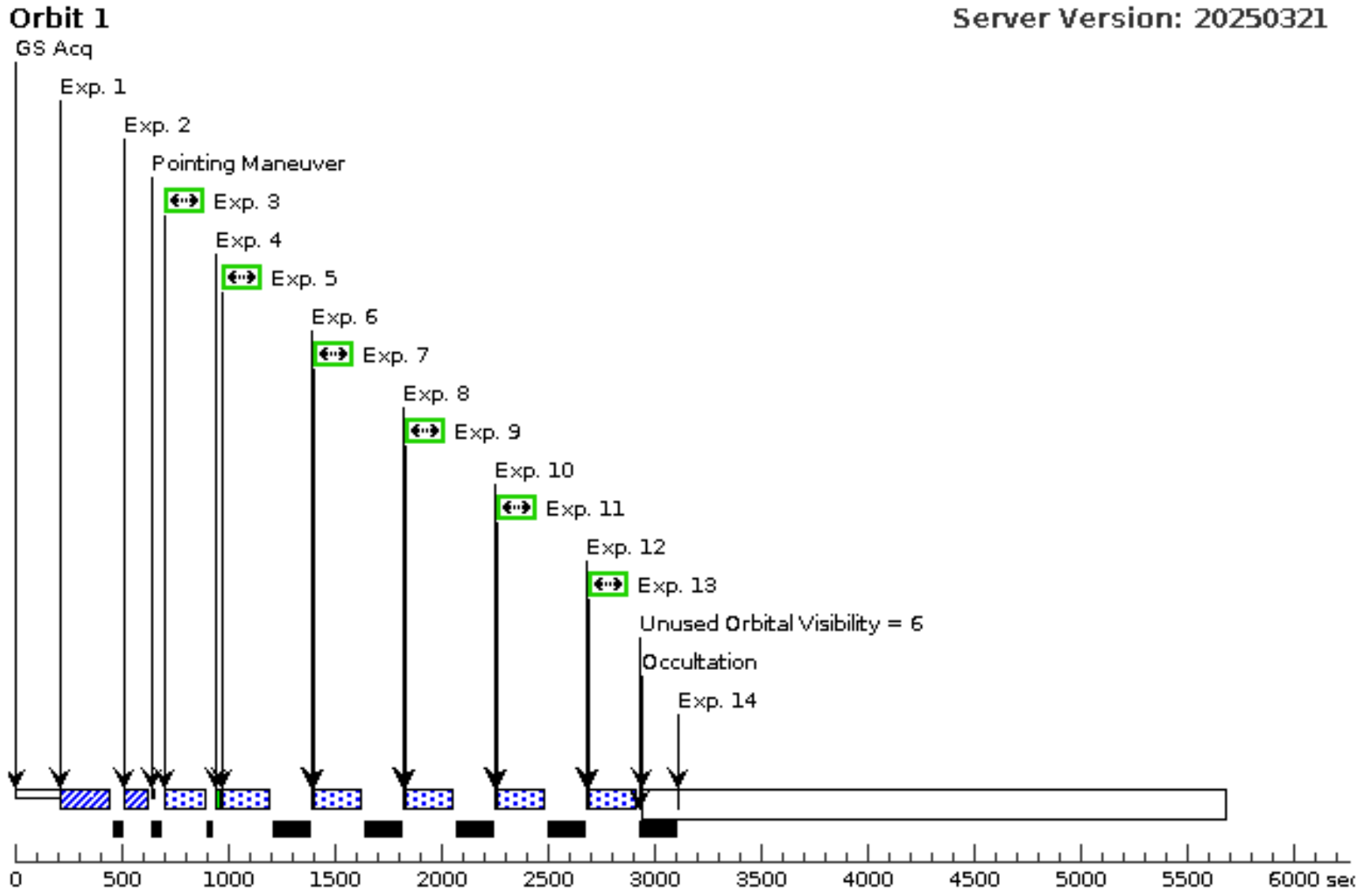
Proposal 17885 - G130M/1222 Feige 48 LP7 (01) - FUV Focus Sweep Enabling Program at LP7/LP10

44	g130m_122 2_segB_f-10 0 (COS.sp.193 9768)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=22 4; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	POS TARG 0.0,0.0	130 Secs (130 Secs) [==>]	[4]
<p>Comments: This exposure time gives S/N=30 at 1160A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>								
45	Move to -20 0	NONE	COS, ALIGN/OSM		FOCUS=-200		0 Secs (0 Secs) [==>]	[4]
46	g130m_122 2_segB_f-20 0 (COS.sp.193 9768)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=22 4; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	POS TARG 0.0,0.0	130 Secs (130 Secs) [==>]	[4]
<p>Comments: This exposure time gives S/N=30 at 1160A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>								
47	Move to -40 0	NONE	COS, ALIGN/OSM		FOCUS=-400		0 Secs (0 Secs) [==>]	[4]
48	g130m_122 2_segB_f-40 0 (COS.sp.193 9768)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=22 4; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	POS TARG 0.0,0.0	130 Secs (130 Secs) [==>]	[4]
<p>Comments: This exposure time gives S/N=30 at 1160A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>								
49	Move to -60 0	NONE	COS, ALIGN/OSM		FOCUS=-600		0 Secs (0 Secs) [==>]	[4]
50	g130m_122 2_segB_f-60 0 (COS.sp.193 9768)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=22 4; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	POS TARG 0.0,0.0	130 Secs (130 Secs) [==>]	[4]
<p>Comments: This exposure time gives S/N=30 at 1160A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>								

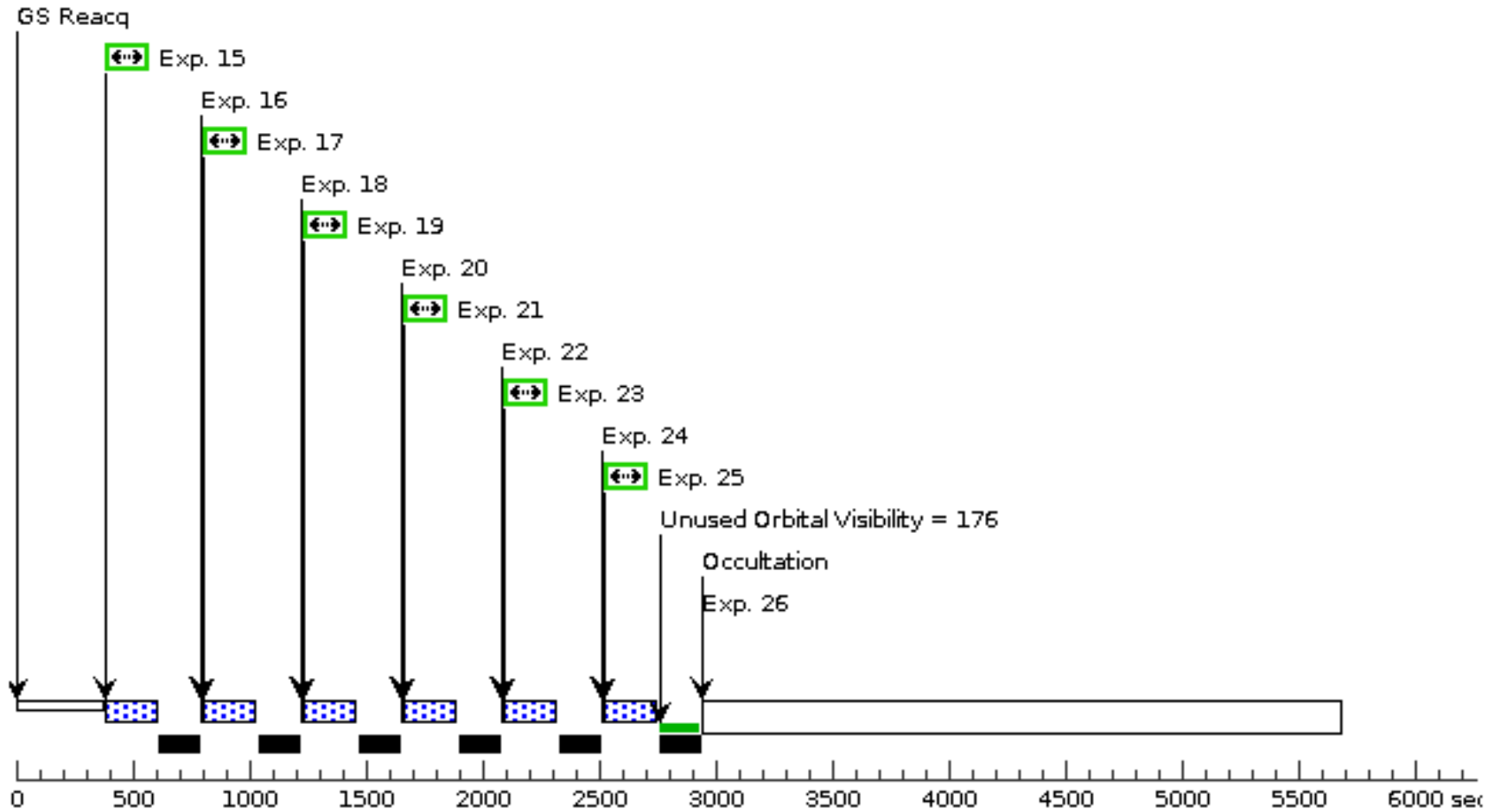
Proposal 17885 - G130M/1222 Feige 48 LP7 (01) - FUV Focus Sweep Enabling Program at LP7/LP10

51	Move to -80 0	NONE	COS, ALIGN/OSM		FOCUS=-800		0 Secs (0 Secs)	
							[==>]	[4]
52	g130m_122 2_segB_f-80 0 (COS.sp.193 9768)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=22 4; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	POS TARG 0.0,0.0	130 Secs (130 Secs)	[4]
<p><i>Comments: This exposure time gives S/N=30 at 1160A.</i></p> <p><i>Wavecals are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</i></p>								
53	Move to -10 00	NONE	COS, ALIGN/OSM		FOCUS=-1000		0 Secs (0 Secs)	
							[==>]	[4]
54	g130m_122 2_segB_f-10 00 (COS.sp.193 9768)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=22 4; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	POS TARG 0.0,0.0	130 Secs (130 Secs)	[4]
<p><i>Comments: This exposure time gives S/N=30 at 1160A.</i></p> <p><i>Wavecals are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</i></p>								
55	Move to 0	NONE	COS, ALIGN/OSM		FOCUS=0		0 Secs (0 Secs)	
							[==>]	[4]

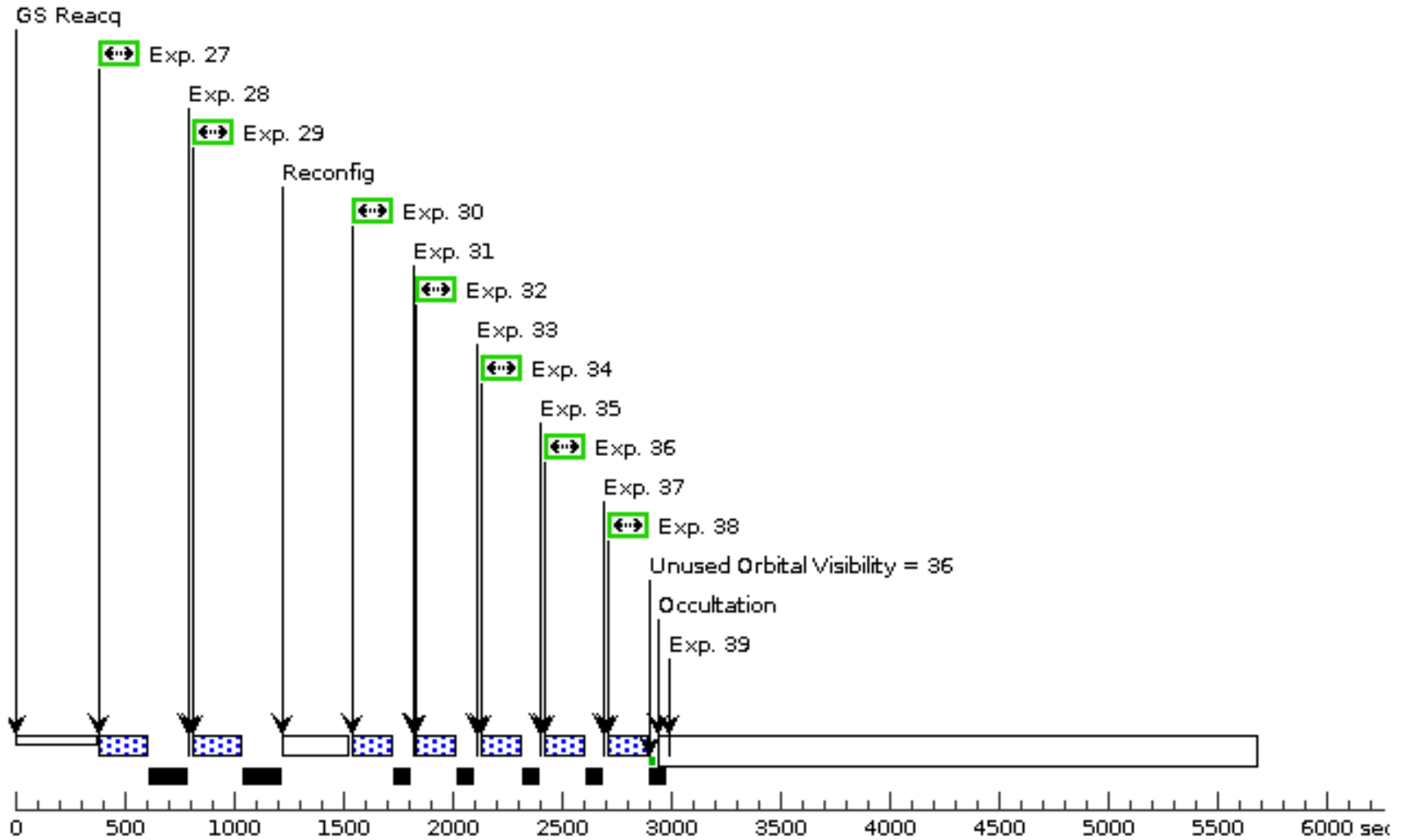
Orbit Structure

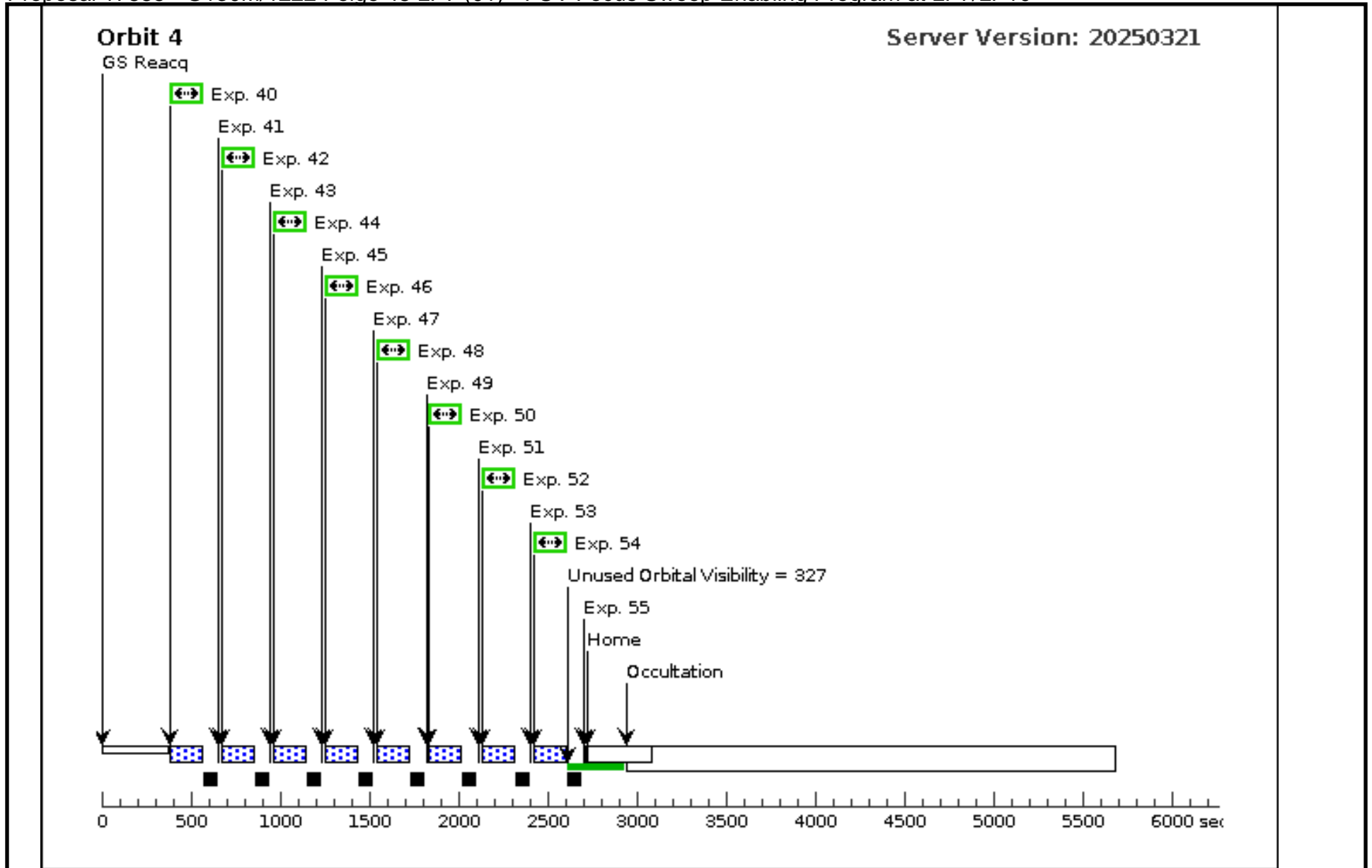


Orbit 2



Orbit 3





Proposal 17885 - G130M/1291 Feige 48 LP7 (02) - FUV Focus Sweep Enabling Program at LP7/LP10

Visit	Proposal 17885, G130M/1291 Feige 48 LP7 (02), completed Tue Jul 01 18:00:36 GMT 2025 Diagnostic Status: Warning Scientific Instruments: COS, COS/FUV, COS/NUV Special Requirements: SCHED 100%													
	Diagnostics	(G130M/1291 Feige 48 LP7 (02)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave.												
Fixed Targets		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">#</th> <th style="width: 20%;">Name</th> <th style="width: 25%;">Target Coordinates</th> <th style="width: 25%;">Targ. Coord. Corrections</th> <th style="width: 15%;">Fluxes</th> <th style="width: 10%;">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>FEIGE-48</td> <td>RA: 11 47 14.4421 (176.8101754d) Dec: +61 15 31.68 (61.25880d) Equinox: J2000</td> <td>Proper Motion RA: -0.0035937440813851103 sec of time/yr Proper Motion Dec: -0.007394999965981697 arcsec/yr Epoch of Position: 2015.5</td> <td>V=13.28</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	FEIGE-48	RA: 11 47 14.4421 (176.8101754d) Dec: +61 15 31.68 (61.25880d) Equinox: J2000	Proper Motion RA: -0.0035937440813851103 sec of time/yr Proper Motion Dec: -0.007394999965981697 arcsec/yr Epoch of Position: 2015.5	V=13.28	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous								
(1)	FEIGE-48	RA: 11 47 14.4421 (176.8101754d) Dec: +61 15 31.68 (61.25880d) Equinox: J2000	Proper Motion RA: -0.0035937440813851103 sec of time/yr Proper Motion Dec: -0.007394999965981697 arcsec/yr Epoch of Position: 2015.5	V=13.28	Reference Frame: ICRS									

Proposal 17885 - G130M/1291 Feige 48 LP7 (02) - FUV Focus Sweep Enabling Program at LP7/LP10

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IMAG E (COS.ta.193 7057)	(1) FEIGE-48	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			4 Secs (4 Secs) [==>]	[1]	
	<i>Comments: S/N = 30</i>									
	2	ACQ/IMAG E (COS.ta.193 7057)	(1) FEIGE-48	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			4 Secs (4 Secs) [==>]	[1]	
	<i>Comments: S/N = 30</i>									
	3	Initialize G130M/1291 at nominal aperture and focus position (COS.sp.193 9671)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=150; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A			0.1 Secs (0.1 Secs) [==>]	[1]
	4	Move to -1000	NONE	COS, ALIGN/OSM		FOCUS=-1000			0 Secs (0 Secs) [==>]	[1]
	5	g130m_1291_segA_f-1000 (COS.sp.193 9671)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=150; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A			250 Secs (250 Secs) [==>]	[1]
	<i>Comments: This exposure time gives S/N=30 at 1350A. Wavecalcs are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</i>									
6	Move to -800	NONE	COS, ALIGN/OSM		FOCUS=-800			0 Secs (0 Secs) [==>]	[1]	
7	g130m_1291_segA_f-800 (COS.sp.193 9671)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=150; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A			250 Secs (250 Secs) [==>]	[1]	
<i>Comments: This exposure time gives S/N=30 at 1350A. Wavecalcs are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</i>										
8	Move to -600	NONE	COS, ALIGN/OSM		FOCUS=-600			0 Secs (0 Secs) [==>]	[1]	

Proposal 17885 - G130M/1291 Feige 48 LP7 (02) - FUV Focus Sweep Enabling Program at LP7/LP10

9	g130m_129 1_segA_f-6 00 (COS.sp.193 9671)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=15 0; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	250 Secs (250 Secs) [==>]	[1]
<p>Comments: This exposure time gives S/N=30 at 1350A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>							
10	Move to -40 0	NONE	COS, ALIGN/OSM		FOCUS=-400	0 Secs (0 Secs) [==>]	[1]
11	g130m_129 1_segA_f-4 00 (COS.sp.193 9671)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=15 0; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	250 Secs (250 Secs) [==>]	[1]
<p>Comments: This exposure time gives S/N=30 at 1350A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>							
12	Move to -20 0	NONE	COS, ALIGN/OSM		FOCUS=-200	0 Secs (0 Secs) [==>]	[1]
13	g130m_129 1_segA_f-2 00 (COS.sp.193 9671)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=15 0; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	250 Secs (250 Secs) [==>]	[1]
<p>Comments: This exposure time gives S/N=30 at 1350A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>							
14	Move to -10 0	NONE	COS, ALIGN/OSM		FOCUS=-100	0 Secs (0 Secs) [==>]	[1]
15	g130m_129 1_segA_f-1 00 (COS.sp.193 9671)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=15 0; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	250 Secs (250 Secs) [==>]	[2]
<p>Comments: This exposure time gives S/N=30 at 1350A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>							

Proposal 17885 - G130M/1291 Feige 48 LP7 (02) - FUV Focus Sweep Enabling Program at LP7/LP10

16	Move to 0	NONE	COS, ALIGN/OSM		FOCUS=0	0 Secs (0 Secs)	
						[==>]	[2]
17	g130m_129 1_segA_f0 (COS.sp.193 9671)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=15 0; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	250 Secs (250 Secs)	[2]
						[==>]	
<p><i>Comments: This exposure time gives S/N=30 at 1350A.</i></p> <p><i>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</i></p>							
18	Move to +10 0	NONE	COS, ALIGN/OSM		FOCUS=+100	0 Secs (0 Secs)	
						[==>]	[2]
19	g130m_129 1_segA_f+1 00 (COS.sp.193 9671)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=15 0; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	250 Secs (250 Secs)	[2]
						[==>]	
<p><i>Comments: This exposure time gives S/N=30 at 1350A.</i></p> <p><i>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</i></p>							
20	Move to +20 0	NONE	COS, ALIGN/OSM		FOCUS=+200	0 Secs (0 Secs)	
						[==>]	[2]
21	g130m_129 1_segA_f+2 00 (COS.sp.193 9671)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=15 0; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	250 Secs (250 Secs)	[2]
						[==>]	
<p><i>Comments: This exposure time gives S/N=30 at 1350A.</i></p> <p><i>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</i></p>							
22	Move to +40 0	NONE	COS, ALIGN/OSM		FOCUS=+400	0 Secs (0 Secs)	
						[==>]	[2]

Proposal 17885 - G130M/1291 Feige 48 LP7 (02) - FUV Focus Sweep Enabling Program at LP7/LP10

23	g130m_129 l_segA_f+4 00 (COS.sp.193 9671)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=15 0; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	POS TARG 0.0,0.0	250 Secs (250 Secs) [==>]	[2]
<p>Comments: This exposure time gives S/N=30 at 1350A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>								
24	Move to +60 0	NONE	COS, ALIGN/OSM		FOCUS=+600		0 Secs (0 Secs) [==>]	[2]
25	g130m_129 l_segA_f+6 00 (COS.sp.193 9671)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=15 0; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	POS TARG 0.0,0.0	250 Secs (250 Secs) [==>]	[2]
<p>Comments: This exposure time gives S/N=30 at 1350A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>								
26	Move to +80 0	NONE	COS, ALIGN/OSM		FOCUS=+800		0 Secs (0 Secs) [==>]	[2]
27	g130m_129 l_segA_f+8 00 (COS.sp.193 9671)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=15 0; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	POS TARG 0.0,0.0	250 Secs (250 Secs) [==>]	[3]
<p>Comments: This exposure time gives S/N=30 at 1350A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>								
28	Move to +10 00	NONE	COS, ALIGN/OSM		FOCUS=+1000		0 Secs (0 Secs) [==>]	[3]
29	g130m_129 l_segA_f+1 000 (COS.sp.193 9671)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=15 0; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=A	POS TARG 0.0,0.0	250 Secs (250 Secs) [==>]	[3]
<p>Comments: This exposure time gives S/N=30 at 1350A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>								

Proposal 17885 - G130M/1291 Feige 48 LP7 (02) - FUV Focus Sweep Enabling Program at LP7/LP10

30	g130m_129 l_segB_f+1 000 (COS.sp.193 9677)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 2; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	POS TARG 0.0,0.0	120 Secs (120 Secs) [==>]	[3]
<p>Comments: This exposure time gives S/N=30 at 1210A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>								
31	Move to +80 0	NONE	COS, ALIGN/OSM		FOCUS=+800		0 Secs (0 Secs) [==>]	[3]
32	g130m_129 l_segB_f+8 00 (COS.sp.193 9677)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 2; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	POS TARG 0.0,0.0	120 Secs (120 Secs) [==>]	[3]
<p>Comments: This exposure time gives S/N=30 at 1210A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>								
33	Move to +60 0	NONE	COS, ALIGN/OSM		FOCUS=+600		0 Secs (0 Secs) [==>]	[3]
34	g130m_129 l_segB_f+6 00 (COS.sp.193 9677)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 2; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	POS TARG 0.0,0.0	120 Secs (120 Secs) [==>]	[3]
<p>Comments: This exposure time gives S/N=30 at 1210A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>								
35	Move to +40 0	NONE	COS, ALIGN/OSM		FOCUS=+400		0 Secs (0 Secs) [==>]	[3]
36	g130m_129 l_segB_f+4 00 (COS.sp.193 9677)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 2; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	POS TARG 0.0,0.0	120 Secs (120 Secs) [==>]	[3]
<p>Comments: This exposure time gives S/N=30 at 1210A.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>								

Proposal 17885 - G130M/1291 Feige 48 LP7 (02) - FUV Focus Sweep Enabling Program at LP7/LP10

37	Move to +20 0	NONE	COS, ALIGN/OSM		FOCUS=+200	0 Secs (0 Secs)	
						[==>]	[3]
38	g130m_129 1_segB_f+2 00 (COS.sp.193 9677)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 2; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	120 Secs (120 Secs)	[4]
<p><i>Comments: This exposure time gives S/N=30 at 1210A.</i></p> <p><i>Wavecals are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</i></p>							
39	Move to +10 0	NONE	COS, ALIGN/OSM		FOCUS=+100	0 Secs (0 Secs)	
						[==>]	[4]
40	g130m_129 1_segB_f+1 00 (COS.sp.193 9677)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 2; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	120 Secs (120 Secs)	[4]
<p><i>Comments: This exposure time gives S/N=30 at 1210A.</i></p> <p><i>Wavecals are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</i></p>							
41	Move to 0	NONE	COS, ALIGN/OSM		FOCUS=0	0 Secs (0 Secs)	
						[==>]	[4]
42	g130m_129 1_segB0 (COS.sp.193 9677)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 2; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	120 Secs (120 Secs)	[4]
<p><i>Comments: This exposure time gives S/N=30 at 1210A.</i></p> <p><i>Wavecals are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</i></p>							
43	Move to -10 0	NONE	COS, ALIGN/OSM		FOCUS=-100	0 Secs (0 Secs)	
						[==>]	[4]

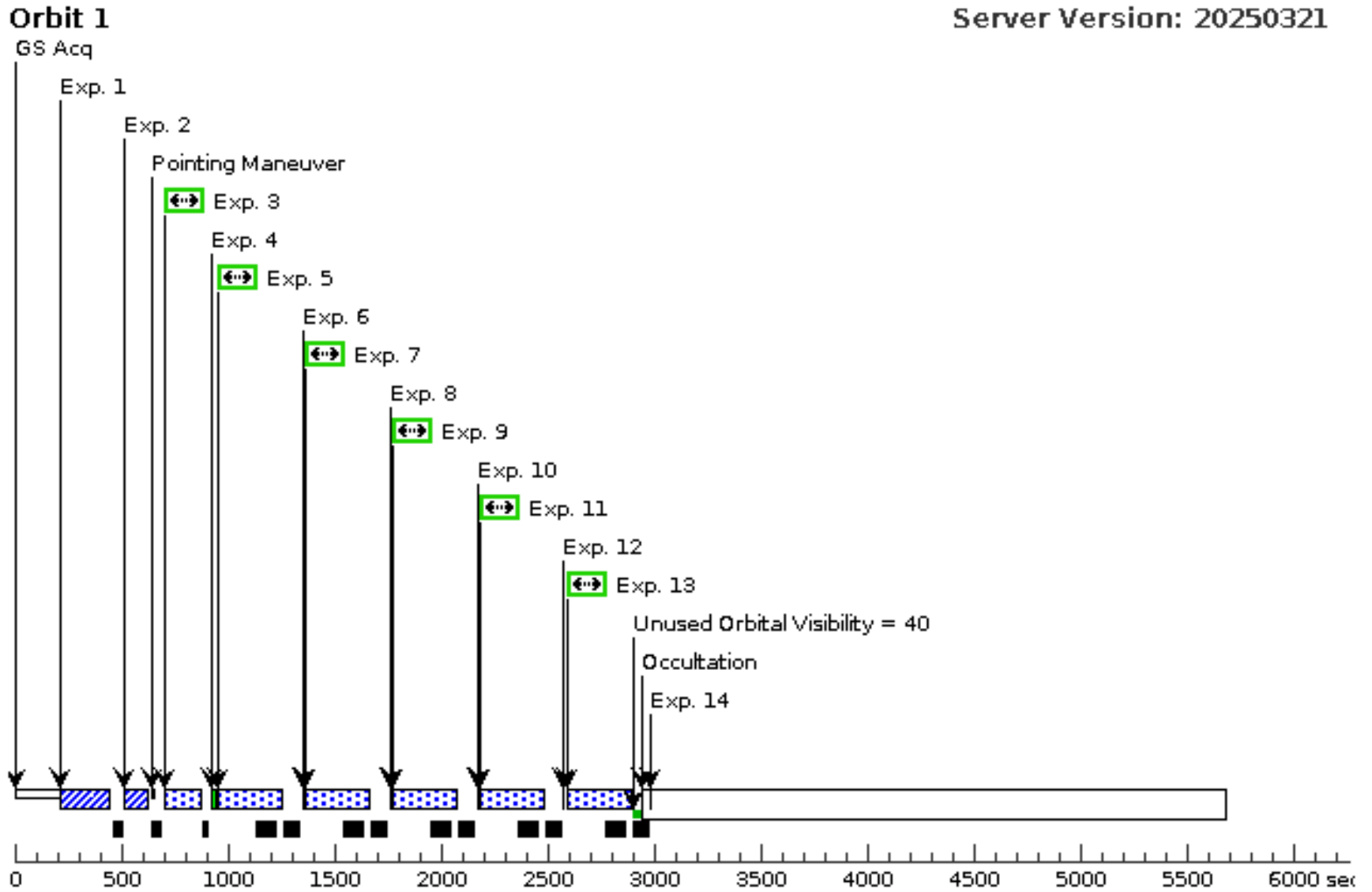
Proposal 17885 - G130M/1291 Feige 48 LP7 (02) - FUV Focus Sweep Enabling Program at LP7/LP10

44	g130m_129 1_segB_f-10 0 (COS.sp.193 9677)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 2; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	POS TARG 0.0,0.0	120 Secs (120 Secs) [==>]	[4]
<p><i>Comments: This exposure time gives S/N=30 at 1210A.</i></p> <p><i>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</i></p>								
45	Move to -20 0	NONE	COS, ALIGN/OSM		FOCUS=-200		0 Secs (0 Secs) [==>]	[4]
46	g130m_129 1_segB_f-20 0 (COS.sp.193 9677)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 2; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	POS TARG 0.0,0.0	120 Secs (120 Secs) [==>]	[4]
<p><i>Comments: This exposure time gives S/N=30 at 1210A.</i></p> <p><i>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</i></p>								
47	Move to -40 0	NONE	COS, ALIGN/OSM		FOCUS=-400		0 Secs (0 Secs) [==>]	[4]
48	g130m_129 1_segB_f-40 0 (COS.sp.193 9677)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 2; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	POS TARG 0.0,0.0	120 Secs (120 Secs) [==>]	[4]
<p><i>Comments: This exposure time gives S/N=30 at 1210A.</i></p> <p><i>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</i></p>								
49	Move to -60 0	NONE	COS, ALIGN/OSM		FOCUS=-600		0 Secs (0 Secs) [==>]	[4]
50	g130m_129 1_segB_f-60 0 (COS.sp.193 9677)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 2; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	POS TARG 0.0,0.0	120 Secs (120 Secs) [==>]	[4]
<p><i>Comments: This exposure time gives S/N=30 at 1210A.</i></p> <p><i>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</i></p>								

Proposal 17885 - G130M/1291 Feige 48 LP7 (02) - FUV Focus Sweep Enabling Program at LP7/LP10

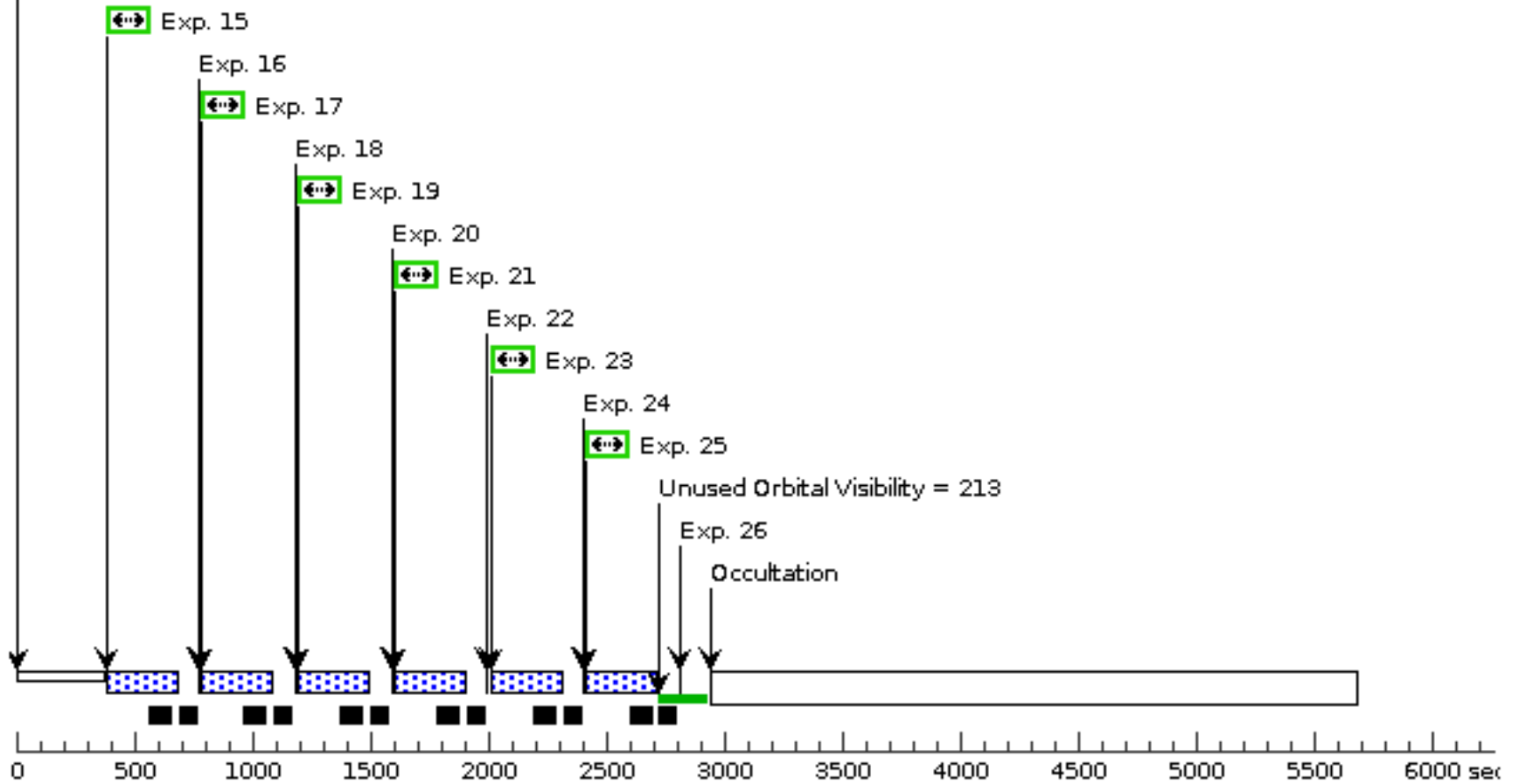
51	Move to -80 0	NONE	COS, ALIGN/OSM		FOCUS=-800	0 Secs (0 Secs)	
						[==>]	[4]
52	g130m_129 1_segB_f-80 0 (COS.sp.193 9677)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 2; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7; SEGMENT=B	120 Secs (120 Secs)	
						[==>]	[4]
<p><i>Comments: This exposure time gives S/N=30 at 1210A.</i></p> <p><i>Wavecals are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</i></p>							
53	Move to 0	NONE	COS, ALIGN/OSM		FOCUS=0	0 Secs (0 Secs)	
						[==>]	[4]

Orbit Structure

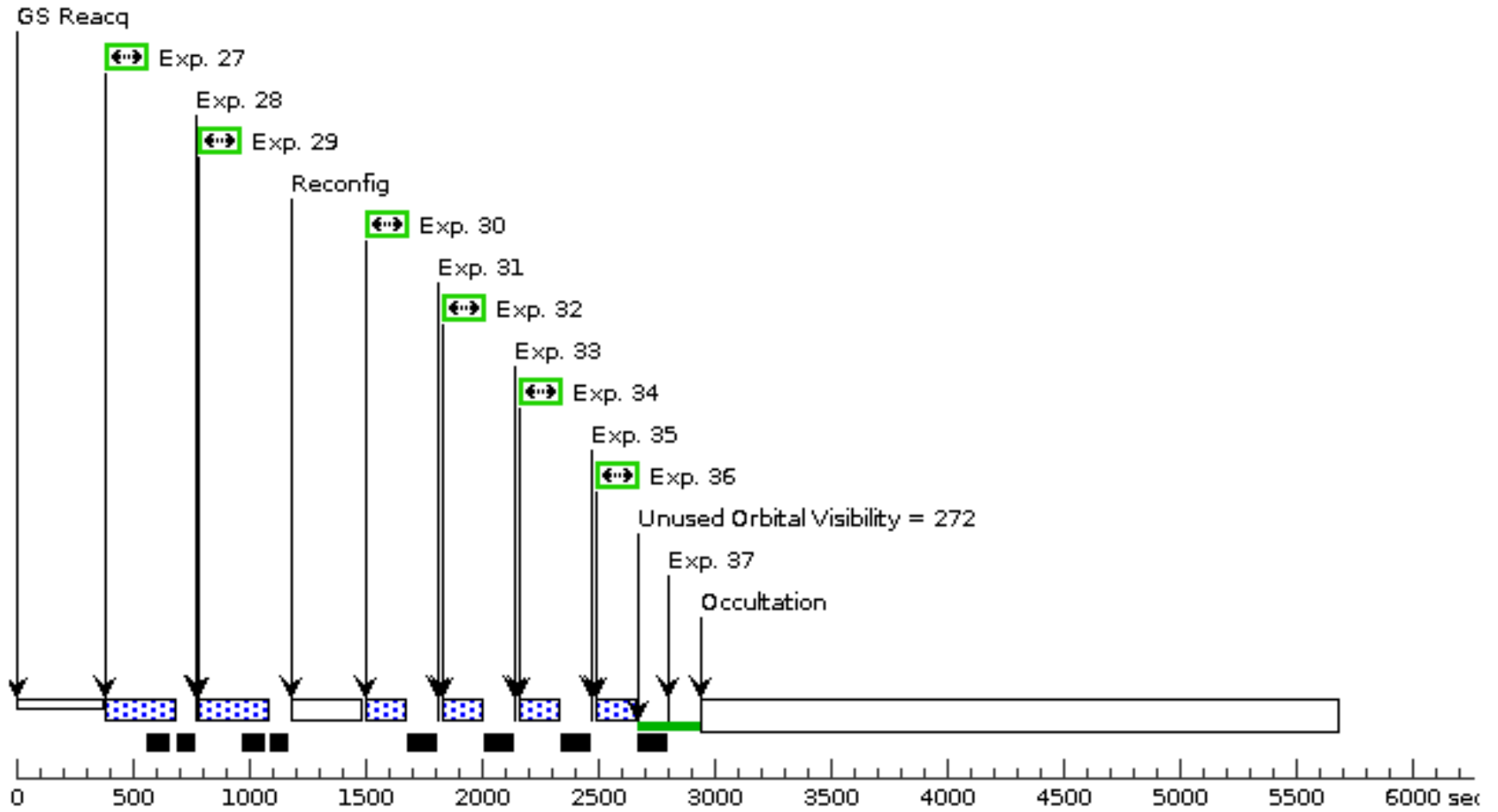


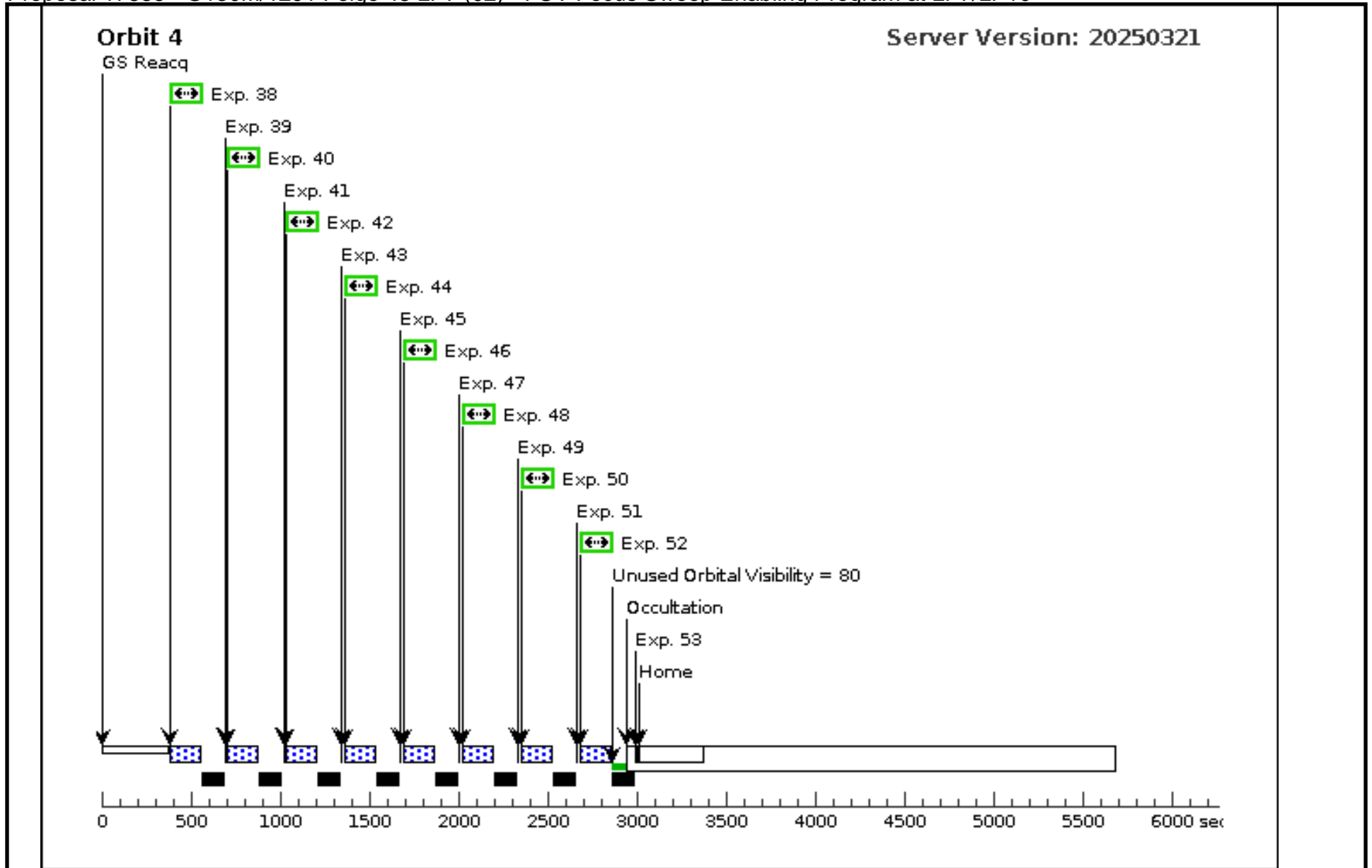
Orbit 2

GS Reacq



Orbit 3





Proposal 17885 - G130M/1096 Feige 48 LP7 (03) - FUV Focus Sweep Enabling Program at LP7/LP10

Visit	<p>Proposal 17885, G130M/1096 Feige 48 LP7 (03), completed Tue Jul 01 18:00:36 GMT 2025</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%</p>																	
	Diagnostics	<p>(G130M/1096 Feige 48 LP7 (03)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave.</p>																
Fixed Targets		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">#</th> <th style="width: 20%;">Name</th> <th style="width: 25%;">Target Coordinates</th> <th style="width: 25%;">Targ. Coord. Corrections</th> <th style="width: 10%;">Fluxes</th> <th style="width: 15%;">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>FEIGE-48</td> <td>RA: 11 47 14.4421 (176.8101754d) Dec: +61 15 31.68 (61.25880d) Equinox: J2000</td> <td>Proper Motion RA: -0.0035937440813851103 sec of time/yr Proper Motion Dec: -0.007394999965981697 arcsec/yr Epoch of Position: 2015.5</td> <td>V=13.28</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	FEIGE-48	RA: 11 47 14.4421 (176.8101754d) Dec: +61 15 31.68 (61.25880d) Equinox: J2000	Proper Motion RA: -0.0035937440813851103 sec of time/yr Proper Motion Dec: -0.007394999965981697 arcsec/yr Epoch of Position: 2015.5	V=13.28	Reference Frame: ICRS	<p><i>Comments: This object was generated by the target selector and retrieved from the SIMBAD database.</i></p> <p><i>Category=EXT-STAR</i></p> <p><i>Description=[SDB]</i></p> <p><i>Extended=NO</i></p>			
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(1)	FEIGE-48	RA: 11 47 14.4421 (176.8101754d) Dec: +61 15 31.68 (61.25880d) Equinox: J2000	Proper Motion RA: -0.0035937440813851103 sec of time/yr Proper Motion Dec: -0.007394999965981697 arcsec/yr Epoch of Position: 2015.5	V=13.28	Reference Frame: ICRS													

Proposal 17885 - G130M/1096 Feige 48 LP7 (03) - FUV Focus Sweep Enabling Program at LP7/LP10

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IMAG E (COS.ta.193 7057)	(1) FEIGE-48	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			4 Secs (4 Secs) [==>]	[1]	
	<i>Comments: S/N = 30</i>									
	2	ACQ/IMAG E (COS.ta.193 7057)	(1) FEIGE-48	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			4 Secs (4 Secs) [==>]	[1]	
	<i>Comments: S/N = 30</i>									
	3	Initialize G130M/1096 at nominal aperture and focus position (COS.sp.194 0339)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1096 A	FP-POS=3; BUFFER-TIME=178; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7			0.1 Secs (0.1 Secs) [==>]	[1]
	4	Move to -300	NONE	COS, ALIGN/OSM		FOCUS=-300			0 Secs (0 Secs) [==>]	[1]
	5	g130m_1096_f-300 (COS.sp.194 0339)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1096 A	FP-POS=3; BUFFER-TIME=178; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7			139 Secs (139 Secs) [==>]	[1]
	<i>Comments: This exposure time gives S/N=30 at 1140 A. We use a spectrum of AV75 that has been scaled up to the flux level of Feige 48 due to lack of coverage in the input spectrum that we have for Feige 48. At this wavelength region, the SEDs are expected to similar.</i>									
<i>Wavecals are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</i>										
6	Move to -200	NONE	COS, ALIGN/OSM		FOCUS=-200			0 Secs (0 Secs) [==>]	[1]	
7	g130m_1096_f-200 (COS.sp.194 0339)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1096 A	FP-POS=3; BUFFER-TIME=178; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7			139 Secs (139 Secs) [==>]	[1]	
<i>Comments: This exposure time gives S/N=30 at 1140 A. We use a spectrum of AV75 that has been scaled up to the flux level of Feige 48 due to lack of coverage in the input spectrum that we have for Feige 48. At this wavelength region, the SEDs are expected to similar.</i>										
<i>Wavecals are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</i>										
8	Move to -100	NONE	COS, ALIGN/OSM		FOCUS=-100			0 Secs (0 Secs) [==>]	[1]	

Proposal 17885 - G130M/1096 Feige 48 LP7 (03) - FUV Focus Sweep Enabling Program at LP7/LP10

9	g130m_109 6_f-100 (COS.sp.194 0339)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1096 A	FP-POS=3; BUFFER-TIME=17 8; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7	139 Secs (139 Secs) [==>]	[1]
<p>Comments: This exposure time gives S/N=30 at 1140 A. We use a spectrum of AV75 that has been scaled up to the flux level of Feige 48 due to lack of coverage in the input spectrum that we have for Feige 48. At this wavelength region, the SEDs are expected to similar.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>							
10	Move to 0	NONE	COS, ALIGN/OSM		FOCUS=0	0 Secs (0 Secs) [==>]	[1]
11	g130m_109 6_f0 (COS.sp.194 0339)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1096 A	FP-POS=3; BUFFER-TIME=17 8; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7	139 Secs (139 Secs) [==>]	[1]
<p>Comments: This exposure time gives S/N=30 at 1140 A. We use a spectrum of AV75 that has been scaled up to the flux level of Feige 48 due to lack of coverage in the input spectrum that we have for Feige 48. At this wavelength region, the SEDs are expected to similar.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>							
12	Move to +10 0	NONE	COS, ALIGN/OSM		FOCUS=+100	0 Secs (0 Secs) [==>]	[1]
13	g130m_109 6_f+100 (COS.sp.194 0339)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1096 A	FP-POS=3; BUFFER-TIME=17 8; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7	139 Secs (139 Secs) [==>]	[1]
<p>Comments: This exposure time gives S/N=30 at 1140 A. We use a spectrum of AV75 that has been scaled up to the flux level of Feige 48 due to lack of coverage in the input spectrum that we have for Feige 48. At this wavelength region, the SEDs are expected to similar.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>							
14	Move to +20 0	NONE	COS, ALIGN/OSM		FOCUS=+200	0 Secs (0 Secs) [==>]	[1]

Proposal 17885 - G130M/1096 Feige 48 LP7 (03) - FUV Focus Sweep Enabling Program at LP7/LP10

15	g130m_109_6_f+200 (COS.sp.194 0339)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1096 A	FP-POS=3; BUFFER-TIME=17 8; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7	139 Secs (139 Secs) [==>]	[1]
<p>Comments: This exposure time gives S/N=30 at 1140 A. We use a spectrum of AV75 that has been scaled up to the flux level of Feige 48 due to lack of coverage in the input spectrum that we have for Feige 48. At this wavelength region, the SEDs are expected to be similar.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>							
16	Move to +30 0	NONE	COS, ALIGN/OSM		FOCUS=+300	0 Secs (0 Secs) [==>]	[1]
17	g130m_109_6_f+300 (COS.sp.194 0339)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1096 A	FP-POS=3; BUFFER-TIME=17 8; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7	139 Secs (139 Secs) [==>]	[2]
<p>Comments: This exposure time gives S/N=30 at 1140 A. We use a spectrum of AV75 that has been scaled up to the flux level of Feige 48 due to lack of coverage in the input spectrum that we have for Feige 48. At this wavelength region, the SEDs are expected to be similar.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>							
18	Move to +40 0	NONE	COS, ALIGN/OSM		FOCUS=+400	0 Secs (0 Secs) [==>]	[2]
19	g130m_109_6_f+400 (COS.sp.194 0339)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1096 A	FP-POS=3; POS TARG 0.0,0.0 BUFFER-TIME=17 8; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7	139 Secs (139 Secs) [==>]	[2]
<p>Comments: This exposure time gives S/N=30 at 1140 A. We use a spectrum of AV75 that has been scaled up to the flux level of Feige 48 due to lack of coverage in the input spectrum that we have for Feige 48. At this wavelength region, the SEDs are expected to be similar.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>							
20	Move to +50 0	NONE	COS, ALIGN/OSM		FOCUS=+500	0 Secs (0 Secs) [==>]	[2]
21	g130m_109_6_f+500 (COS.sp.194 0339)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1096 A	FP-POS=3; BUFFER-TIME=17 8; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7	139 Secs (139 Secs) [==>]	[2]
<p>Comments: This exposure time gives S/N=30 at 1140 A. We use a spectrum of AV75 that has been scaled up to the flux level of Feige 48 due to lack of coverage in the input spectrum that we have for Feige 48. At this wavelength region, the SEDs are expected to be similar.</p> <p>Wavecalcs are turned off to mitigate light-leak issues above +5.5"/(i.e. WAVECAL=NO, FLASH=NO)</p>							

Proposal 17885 - G130M/1096 Feige 48 LP7 (03) - FUV Focus Sweep Enabling Program at LP7/LP10

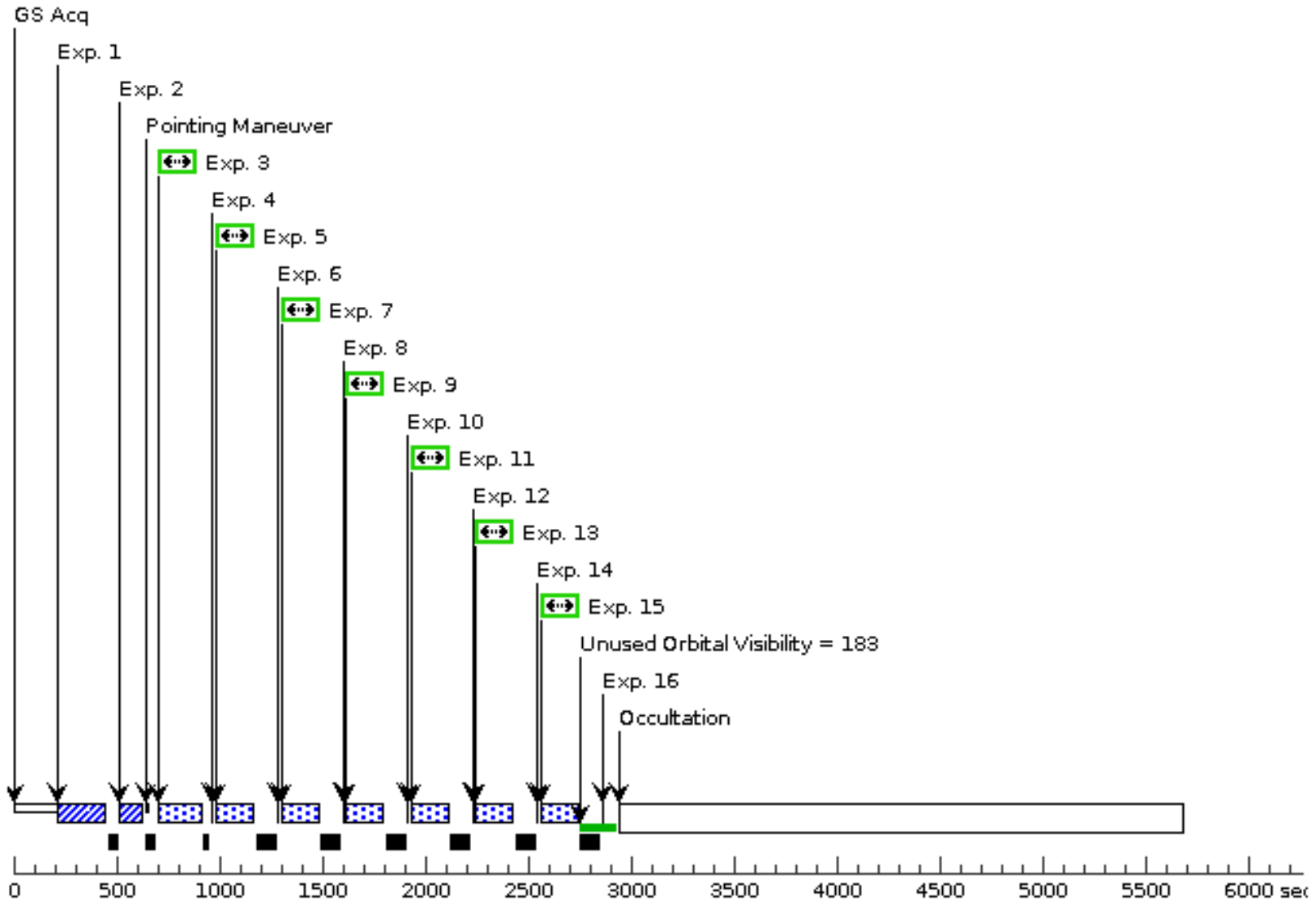
22	Move to +60 0	NONE	COS, ALIGN/OSM		FOCUS=+600		0 Secs (0 Secs)	
							[==>]	[2]
23	g130m_109 6_f+600 (COS.sp.194 0339)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1096 A	FP-POS=3; BUFFER-TIME=17 8; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7	POS TARG 0.0,0.0	139 Secs (139 Secs)	[2]
							[==>]	
<p>Comments: This exposure time gives S/N=30 at 1140 A. We use a spectrum of AV75 that has been scaled up to the flux level of Feige 48 due to lack of coverage in the input spectrum that we have for Feige 48. At this wavelength region, the SEDs are expected to similar.</p> <p>Wavecals are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</p>								
24	Move to +80 0	NONE	COS, ALIGN/OSM		FOCUS=+800		0 Secs (0 Secs)	
							[==>]	[2]
25	g130m_109 6_f+800 (COS.sp.194 0339)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1096 A	FP-POS=3; BUFFER-TIME=17 8; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7	POS TARG 0.0,0.0	139 Secs (139 Secs)	[2]
							[==>]	
<p>Comments: This exposure time gives S/N=30 at 1140 A. We use a spectrum of AV75 that has been scaled up to the flux level of Feige 48 due to lack of coverage in the input spectrum that we have for Feige 48. At this wavelength region, the SEDs are expected to similar.</p> <p>Wavecals are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</p>								
26	Move to +10 00	NONE	COS, ALIGN/OSM		FOCUS=+1000		0 Secs (0 Secs)	
							[==>]	[2]
27	g130m_109 6_f+1000 (COS.sp.194 0339)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1096 A	FP-POS=3; BUFFER-TIME=17 8; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7	POS TARG 0.0,0.0	139 Secs (139 Secs)	[2]
							[==>]	
<p>Comments: This exposure time gives S/N=30 at 1140 A. We use a spectrum of AV75 that has been scaled up to the flux level of Feige 48 due to lack of coverage in the input spectrum that we have for Feige 48. At this wavelength region, the SEDs are expected to similar.</p> <p>Wavecals are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</p>								
28	Move to +12 00	NONE	COS, ALIGN/OSM		FOCUS=+1200		0 Secs (0 Secs)	
							[==>]	[2]

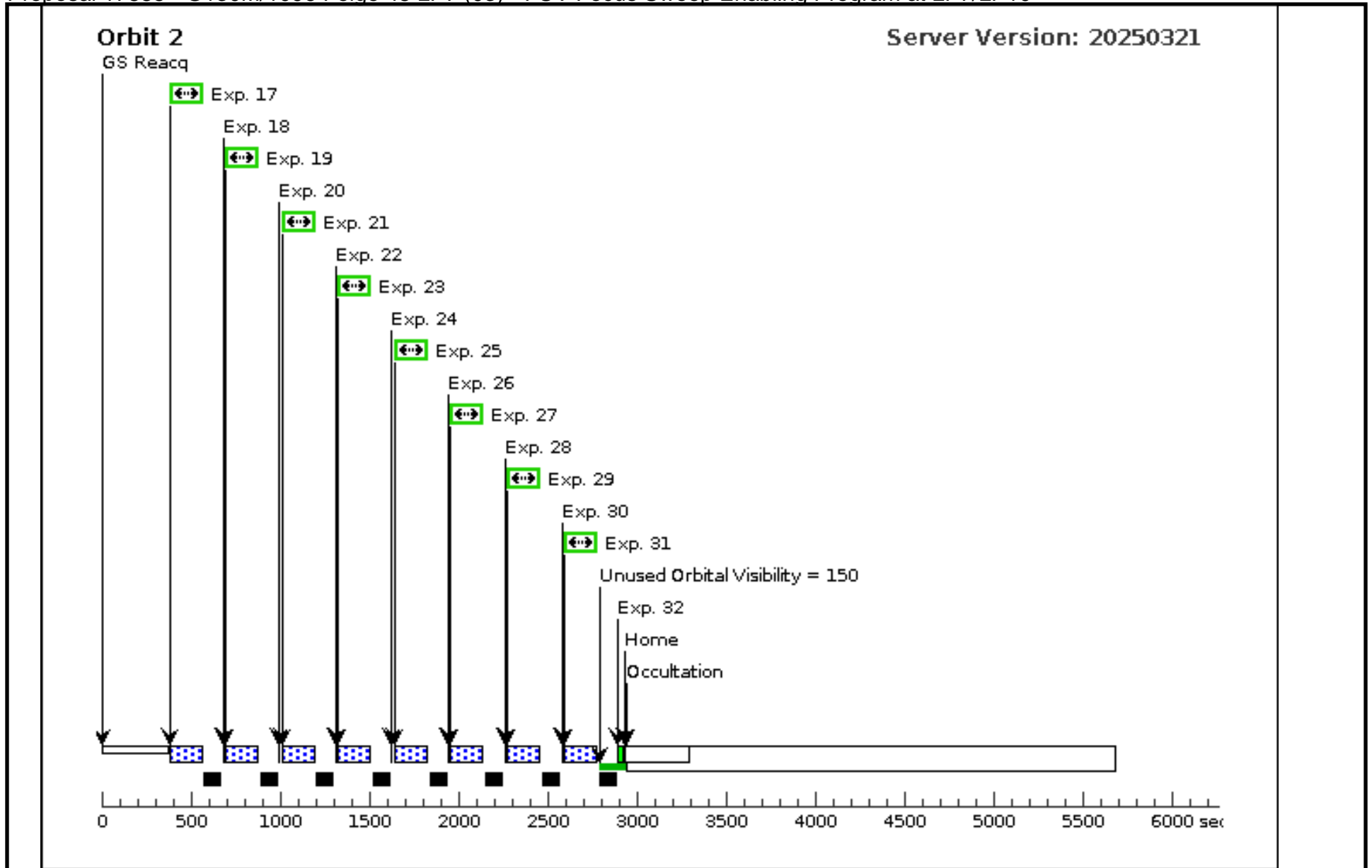
Proposal 17885 - G130M/1096 Feige 48 LP7 (03) - FUV Focus Sweep Enabling Program at LP7/LP10

29	g130m_109 6_f+1200 (COS.sp.194 0339)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1096 A	FP-POS=3; BUFFER-TIME=17 8; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7	POS TARG 0.0,0.0	139 Secs (139 Secs)	[==>]	[2]
<p><i>Comments: This exposure time gives S/N=30 at 1140 A. We use a spectrum of AV75 that has been scaled up to the flux level of Feige 48 due to lack of coverage in the input spectrum that we have for Feige 48. At this wavelength region, the SEDs are expected to similar.</i></p> <p><i>Wavecalcs are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</i></p>									
30	Move to +14 00	NONE	COS, ALIGN/OSM		FOCUS=+1400		0 Secs (0 Secs)	[==>]	[2]
31	g130m_109 6_f+1400 (COS.sp.194 0339)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G130M 1096 A	FP-POS=3; BUFFER-TIME=17 8; WAVECAL=NO; FLASH=NO; LIFETIME-POS=L P7	POS TARG 0.0,0.0	139 Secs (139 Secs)	[==>]	[2]
<p><i>Comments: This exposure time gives S/N=30 at 1140 A. We use a spectrum of AV75 that has been scaled up to the flux level of Feige 48 due to lack of coverage in the input spectrum that we have for Feige 48. At this wavelength region, the SEDs are expected to similar.</i></p> <p><i>Wavecalcs are turned off to mitigate light-leak issues above +5.5" (i.e. WAVECAL=NO, FLASH=NO)</i></p>									
32	Move to 0	NONE	COS, ALIGN/OSM		FOCUS=0		0 Secs (0 Secs)	[==>]	[2]

Orbit Structure

Orbit 1





Proposal 17885 - G160M/1600 AG+81-266 Segment A LP10 (04) - FUV Focus Sweep Enabling Program at LP7/LP10

Visit	Proposal 17885, G160M/1600 AG+81-266 Segment A LP10 (04), completed Tue Jul 01 18:00:36 GMT 2025 Diagnostic Status: Warning Scientific Instruments: COS, COS/FUV, COS/NUV Special Requirements: SCHED 100%																
	Diagnosics (G160M/1600 AG+81-266 Segment A LP10 (04)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave.																
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>(2)</td> <td>AG+81-266</td> <td>RA: 09 21 19.1766 (140.3299025d) Dec: +81 43 27.63 (81.72434d) Equinox: J2000</td> <td>Proper Motion RA: -11.248 mas/yr Proper Motion Dec: -51.2789999024521 mas/yr Parallax: 0.0033975" Epoch of Position: 2000</td> <td>V=11.95</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	AG+81-266	RA: 09 21 19.1766 (140.3299025d) Dec: +81 43 27.63 (81.72434d) Equinox: J2000	Proper Motion RA: -11.248 mas/yr Proper Motion Dec: -51.2789999024521 mas/yr Parallax: 0.0033975" Epoch of Position: 2000	V=11.95	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(2)	AG+81-266	RA: 09 21 19.1766 (140.3299025d) Dec: +81 43 27.63 (81.72434d) Equinox: J2000	Proper Motion RA: -11.248 mas/yr Proper Motion Dec: -51.2789999024521 mas/yr Parallax: 0.0033975" Epoch of Position: 2000	V=11.95	Reference Frame: ICRS												
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=STAR</i> <i>Description=[SDB]</i> <i>Extended=NO</i></p>																	

Proposal 17885 - G160M/1600 AG+81-266 Segment A LP10 (04) - FUV Focus Sweep Enabling Program at LP7/LP10

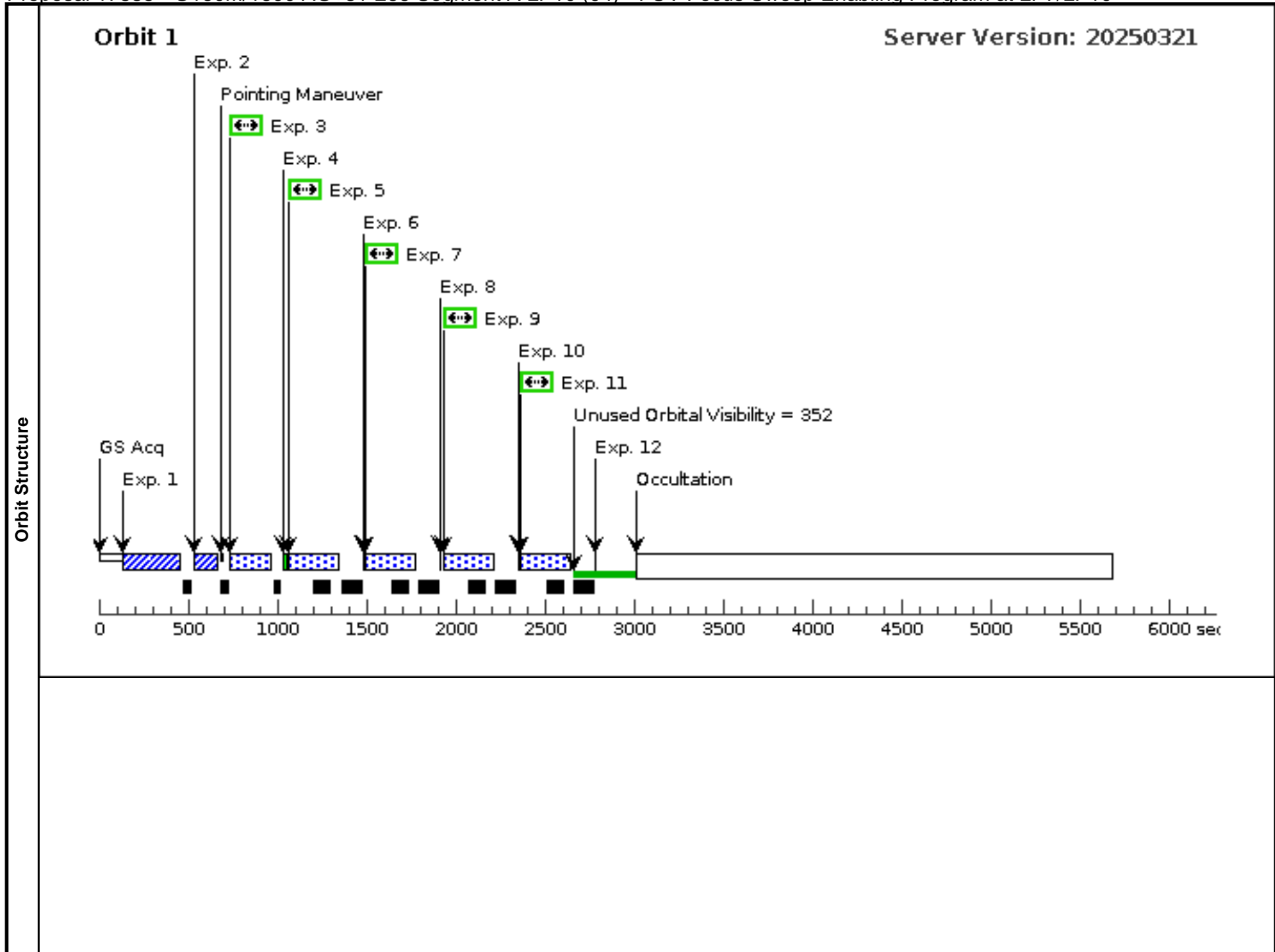
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IMAG E (COS.ta.194 4726)	(2) AG+81-266	COS/NUV, ACQ/IMAGE, BOA	MIRRORB			12 Secs (12 Secs) [==>]	[1]	
	<i>Comments: S/N = 30</i>									
	2	ACQ/IMAG E (COS.ta.194 4726)	(2) AG+81-266	COS/NUV, ACQ/IMAGE, BOA	MIRRORB			12 Secs (12 Secs) [==>]	[1]	
	<i>Comments: S/N = 30</i>									
	3	Initialize G160M/1600 at nominal aperture and focus position (COS.sp.194 4728)	(2) AG+81-266	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=112; LIFETIME-POS=L P8; SEGMENT=A			14 Secs (14 Secs) [==>]	[1]
	4	Move to -1000	NONE	COS, ALIGN/OSM		FOCUS=-1000			0 Secs (0 Secs) [==>]	[1]
	5	g160m_1600_segA_f-1000 (COS.sp.194 4728)	(2) AG+81-266	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=112; LIFETIME-POS=L P8; SEGMENT=A			233 Secs (233 Secs) [==>]	[1]
	<i>Comments: This exposure time gives S/N=30 at 1745A.</i>									
	6	Move to -800	NONE	COS, ALIGN/OSM		FOCUS=-800			0 Secs (0 Secs) [==>]	[1]
	7	g160m_1600_segA_f-800 (COS.sp.194 4728)	(2) AG+81-266	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=112; LIFETIME-POS=L P8; SEGMENT=A			233 Secs (233 Secs) [==>]	[1]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>										
8	Move to -600	NONE	COS, ALIGN/OSM		FOCUS=-600			0 Secs (0 Secs) [==>]	[1]	
9	g160m_1600_segA_f-600 (COS.sp.194 4728)	(2) AG+81-266	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=112; LIFETIME-POS=L P8; SEGMENT=A	POS TARG 0.0,0.0		233 Secs (233 Secs) [==>]	[1]	
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>										
10	Move to -400	NONE	COS, ALIGN/OSM		FOCUS=-400			0 Secs (0 Secs) [==>]	[1]	

Proposal 17885 - G160M/1600 AG+81-266 Segment A LP10 (04) - FUV Focus Sweep Enabling Program at LP7/LP10

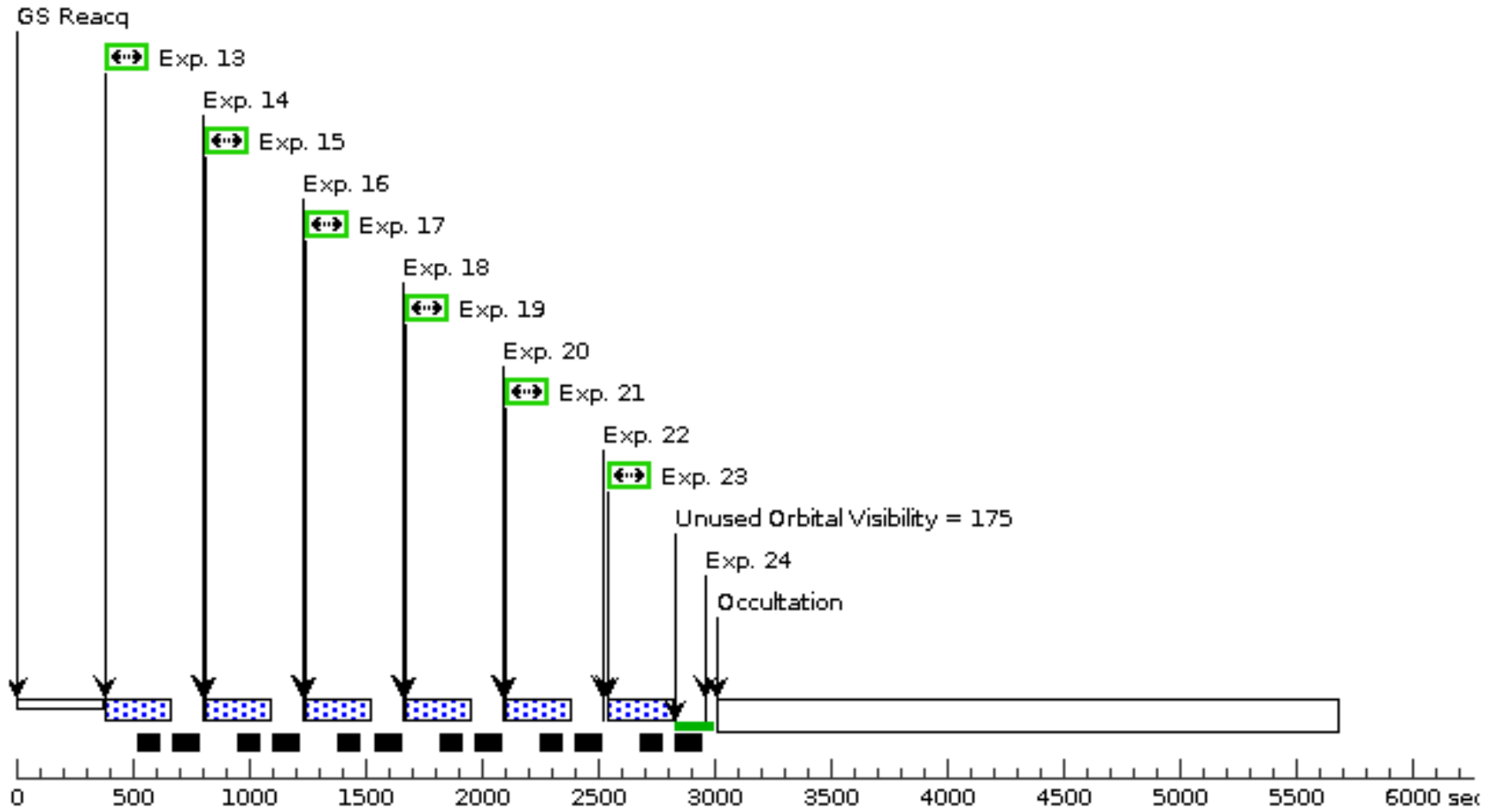
11	g160m_160_0_segA_f-400 (COS.sp.1944728)	(2) AG+81-266	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=112; LIFETIME-POS=L P8; SEGMENT=A	POS TARG 0.0,0.0	233 Secs (233 Secs) [==>]	[1]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>								
12	Move to -20 0	NONE	COS, ALIGN/OSM		FOCUS=-200		0 Secs (0 Secs) [==>]	[1]
13	g160m_160_0_segA_f-200 (COS.sp.1944728)	(2) AG+81-266	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=112; LIFETIME-POS=L P8; SEGMENT=A	POS TARG 0.0,0.0	233 Secs (233 Secs) [==>]	[2]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>								
14	Move to -10 0	NONE	COS, ALIGN/OSM		FOCUS=-100		0 Secs (0 Secs) [==>]	[2]
15	g160m_160_0_segA_f-100 (COS.sp.1944728)	(2) AG+81-266	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=112; LIFETIME-POS=L P8; SEGMENT=A	POS TARG 0.0,0.0	233 Secs (233 Secs) [==>]	[2]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>								
16	Move to 0 0	NONE	COS, ALIGN/OSM		FOCUS=0		0 Secs (0 Secs) [==>]	[2]
17	g160m_160_0_segA_f0 (COS.sp.1944728)	(2) AG+81-266	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=112; LIFETIME-POS=L P8; SEGMENT=A	POS TARG 0.0,0.0	233 Secs (233 Secs) [==>]	[2]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>								
18	Move to +10 0	NONE	COS, ALIGN/OSM		FOCUS=+100		0 Secs (0 Secs) [==>]	[2]
19	g160m_160_0_segA_f+100 (COS.sp.1944728)	(2) AG+81-266	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=112; LIFETIME-POS=L P8; SEGMENT=A	POS TARG 0.0,0.0	233 Secs (233 Secs) [==>]	[2]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>								
20	Move to +20 0	NONE	COS, ALIGN/OSM		FOCUS=+200		0 Secs (0 Secs) [==>]	[2]

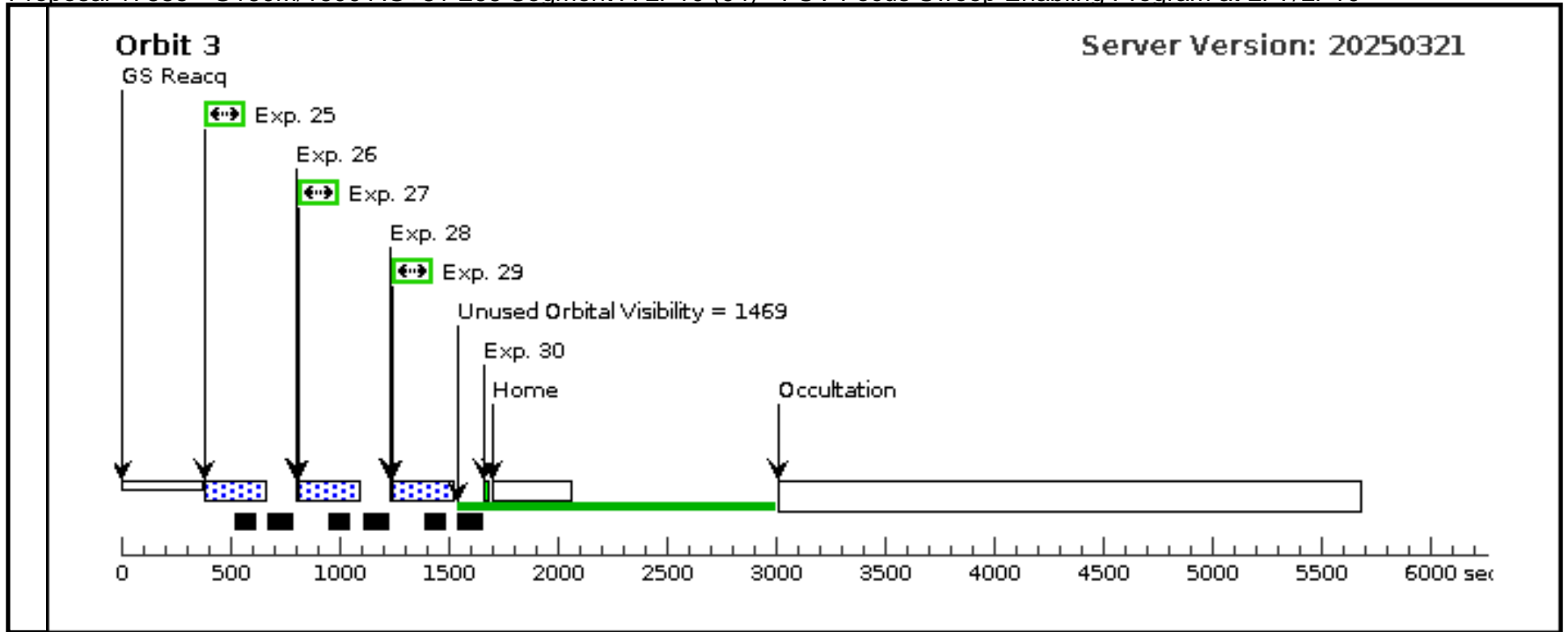
Proposal 17885 - G160M/1600 AG+81-266 Segment A LP10 (04) - FUV Focus Sweep Enabling Program at LP7/LP10

21	g160m_160_0_segA_f+200 (COS.sp.194 4728)	(2) AG+81-266	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=112; LIFETIME-POS=L P8; SEGMENT=A	233 Secs (233 Secs) [==>]	[2]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>							
22	Move to +40 0	NONE	COS, ALIGN/OSM		FOCUS=+400	0 Secs (0 Secs) [==>]	[2]
23	g160m_160_0_segA_f+400 (COS.sp.194 4728)	(2) AG+81-266	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=112; LIFETIME-POS=L P8; SEGMENT=A	233 Secs (233 Secs) [==>]	[2]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>							
24	Move to +60 0	NONE	COS, ALIGN/OSM		FOCUS=+600	0 Secs (0 Secs) [==>]	[2]
25	g160m_160_0_segA_f+600 (COS.sp.194 4728)	(2) AG+81-266	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; POS TARG 0.0,0.0 BUFFER-TIME=112; LIFETIME-POS=L P8; SEGMENT=A	233 Secs (233 Secs) [==>]	[3]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>							
26	Move to +80 0	NONE	COS, ALIGN/OSM		FOCUS=+800	0 Secs (0 Secs) [==>]	[3]
27	g160m_160_0_segA_f+800 (COS.sp.194 4728)	(2) AG+81-266	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; POS TARG 0.0,0.0 BUFFER-TIME=112; LIFETIME-POS=L P8; SEGMENT=A	233 Secs (233 Secs) [==>]	[3]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>							
28	Move to +10 00	NONE	COS, ALIGN/OSM		FOCUS=+1000	0 Secs (0 Secs) [==>]	[3]
29	g160m_160_000_segA_f+1000 (COS.sp.194 4728)	(2) AG+81-266	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; POS TARG 0.0,0.0 BUFFER-TIME=112; LIFETIME-POS=L P8; SEGMENT=A	233 Secs (233 Secs) [==>]	[3]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>							
30	Move to +0 0	NONE	COS, ALIGN/OSM		FOCUS=+0	0 Secs (0 Secs) [==>]	[3]



Orbit 2





Proposal 17885 - G160M/1600 Feige 48 Segment B LP10 (05) - FUV Focus Sweep Enabling Program at LP7/LP10

Visit	Proposal 17885, G160M/1600 Feige 48 Segment B LP10 (05), completed Tue Jul 01 18:00:36 GMT 2025 Diagnostic Status: Warning Scientific Instruments: COS, COS/FUV, COS/NUV Special Requirements: SCHED 100%																
	(G160M/1600 Feige 48 Segment B LP10 (05)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave.																
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>FEIGE-48</td> <td>RA: 11 47 14.4421 (176.8101754d) Dec: +61 15 31.68 (61.25880d) Equinox: J2000</td> <td>Proper Motion RA: -0.0035937440813851103 sec of time/yr Proper Motion Dec: -0.007394999965981697 arcsec/yr Epoch of Position: 2015.5</td> <td>V=13.28</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	FEIGE-48	RA: 11 47 14.4421 (176.8101754d) Dec: +61 15 31.68 (61.25880d) Equinox: J2000	Proper Motion RA: -0.0035937440813851103 sec of time/yr Proper Motion Dec: -0.007394999965981697 arcsec/yr Epoch of Position: 2015.5	V=13.28	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(1)	FEIGE-48	RA: 11 47 14.4421 (176.8101754d) Dec: +61 15 31.68 (61.25880d) Equinox: J2000	Proper Motion RA: -0.0035937440813851103 sec of time/yr Proper Motion Dec: -0.007394999965981697 arcsec/yr Epoch of Position: 2015.5	V=13.28	Reference Frame: ICRS												
Comments: This object was generated by the target selector and retrieved from the SIMBAD database. Category=EXT-STAR Description=[SDB] Extended=NO																	

Proposal 17885 - G160M/1600 Feige 48 Segment B LP10 (05) - FUV Focus Sweep Enabling Program at LP7/LP10

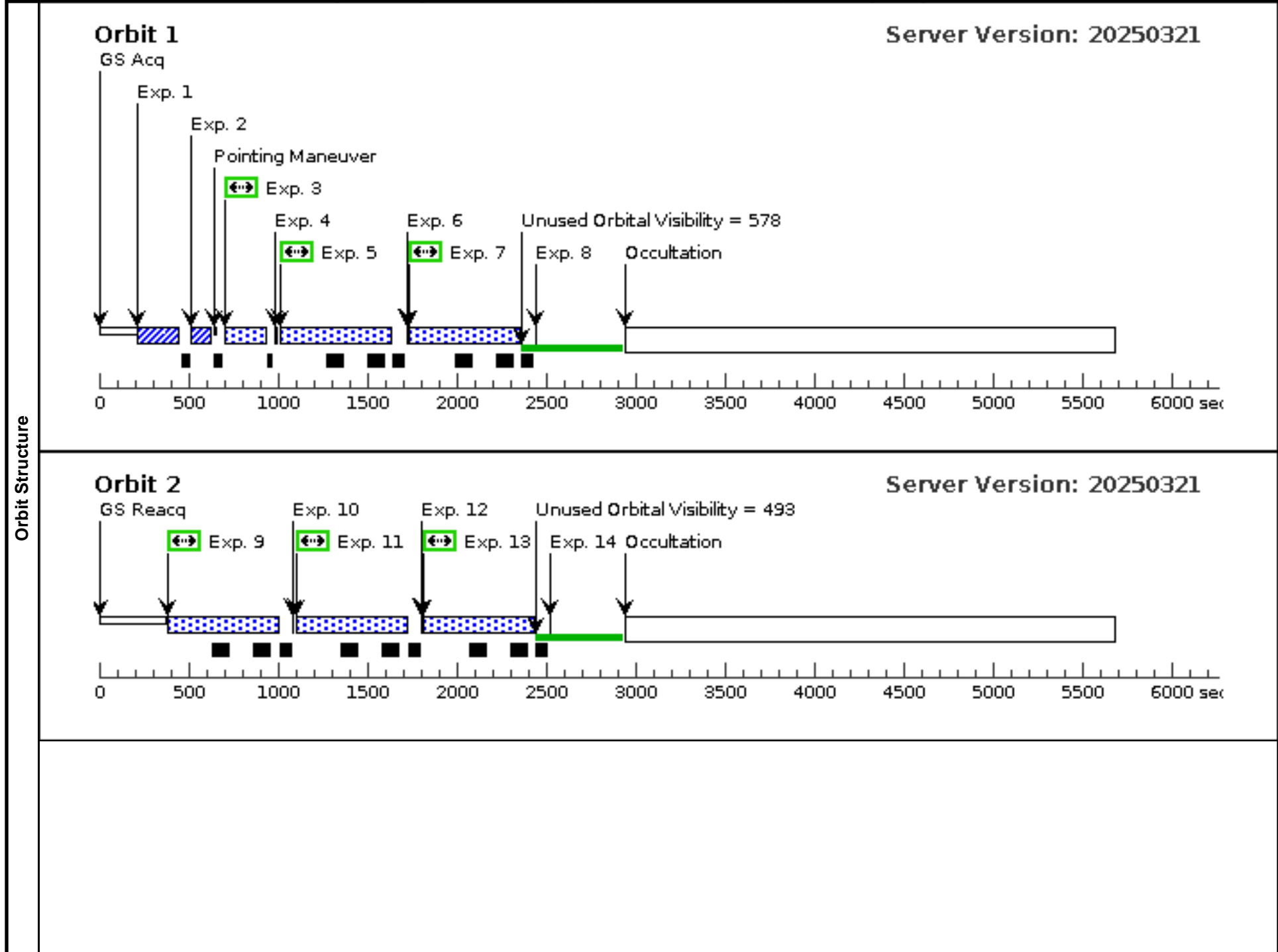
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IMAG E (COS.ta.193 7057)	(1) FEIGE-48	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			4 Secs (4 Secs) [==>]	[1]	
	<i>Comments: S/N = 30</i>									
	2	ACQ/IMAG E (COS.ta.193 7057)	(1) FEIGE-48	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			4 Secs (4 Secs) [==>]	[1]	
	<i>Comments: S/N = 30</i>									
	3	Initialize G160M/1600 at nominal aperture and focus position (COS.sp.194 0291)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=226; LIFETIME-POS=L P8; SEGMENT=B			14 Secs (14 Secs) [==>]	[1]
	4	Move to -800	NONE	COS, ALIGN/OSM		FOCUS=-800			0 Secs (0 Secs) [==>]	[1]
	5	g160m_1600_segB_f-800 (COS.sp.194 0291)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=226; LIFETIME-POS=L P8; SEGMENT=B			567 Secs (567 Secs) [==>]	[1]
	<i>Comments: This exposure time gives S/N=30 at 1770 A.</i>									
	6	Move to -600	NONE	COS, ALIGN/OSM		FOCUS=-600			0 Secs (0 Secs) [==>]	[1]
	7	g160m_1600_segB_f-600 (COS.sp.194 0291)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=226; LIFETIME-POS=L P8; SEGMENT=B			567 Secs (567 Secs) [==>]	[1]
<i>Comments: This exposure time gives S/N=30 at 1770 A.</i>										
8	Move to -400	NONE	COS, ALIGN/OSM		FOCUS=-400			0 Secs (0 Secs) [==>]	[1]	
9	g160m_1600_segB_f-400 (COS.sp.194 0291)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=226; LIFETIME-POS=L P8; SEGMENT=B			567 Secs (567 Secs) [==>]	[2]	
<i>Comments: This exposure time gives S/N=30 at 1770 A.</i>										
10	Move to -200	NONE	COS, ALIGN/OSM		FOCUS=-200			0 Secs (0 Secs) [==>]	[2]	

Proposal 17885 - G160M/1600 Feige 48 Segment B LP10 (05) - FUV Focus Sweep Enabling Program at LP7/LP10

11	g160m_160_0_segB_f-20 (1) FEIGE-48 (COS.sp.194 0291)	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=22 6; LIFETIME-POS=L P8; SEGMENT=B	567 Secs (567 Secs) [==>]	[2]
<i>Comments: This exposure time gives S/N=30 at 1770 A.</i>						
12	Move to -10 0	NONE	COS, ALIGN/OSM	FOCUS=-100	0 Secs (0 Secs) [==>]	[2]
13	g160m_160_0_segB_f-10 (1) FEIGE-48 (COS.sp.194 0291)	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=22 6; LIFETIME-POS=L P8; SEGMENT=B	567 Secs (567 Secs) [==>]	[2]
<i>Comments: This exposure time gives S/N=30 at 1770 A.</i>						
14	Move to 0	NONE	COS, ALIGN/OSM	FOCUS=0	0 Secs (0 Secs) [==>]	[2]
15	g160m_160_0_segB_f0 (1) FEIGE-48 (COS.sp.194 0291)	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=22 6; LIFETIME-POS=L P8; SEGMENT=B	567 Secs (567 Secs) [==>]	[3]
<i>Comments: This exposure time gives S/N=30 at 1770 A.</i>						
16	Move to +10 0	NONE	COS, ALIGN/OSM	FOCUS=+100	0 Secs (0 Secs) [==>]	[3]
17	g160m_160_0_segB_f+1 (1) FEIGE-48 (COS.sp.194 0291)	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=22 6; LIFETIME-POS=L P8; SEGMENT=B	567 Secs (567 Secs) [==>]	[3]
<i>Comments: This exposure time gives S/N=30 at 1770 A.</i>						
18	Move to +20 0	NONE	COS, ALIGN/OSM	FOCUS=+200	0 Secs (0 Secs) [==>]	[3]
19	g160m_160_0_segB_f+2 (1) FEIGE-48 (COS.sp.194 0291)	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=22 6; LIFETIME-POS=L P8; SEGMENT=B	567 Secs (567 Secs) [==>]	[3]
<i>Comments: This exposure time gives S/N=30 at 1770 A.</i>						
20	Move to +40 0	NONE	COS, ALIGN/OSM	FOCUS=+400	0 Secs (0 Secs) [==>]	[3]

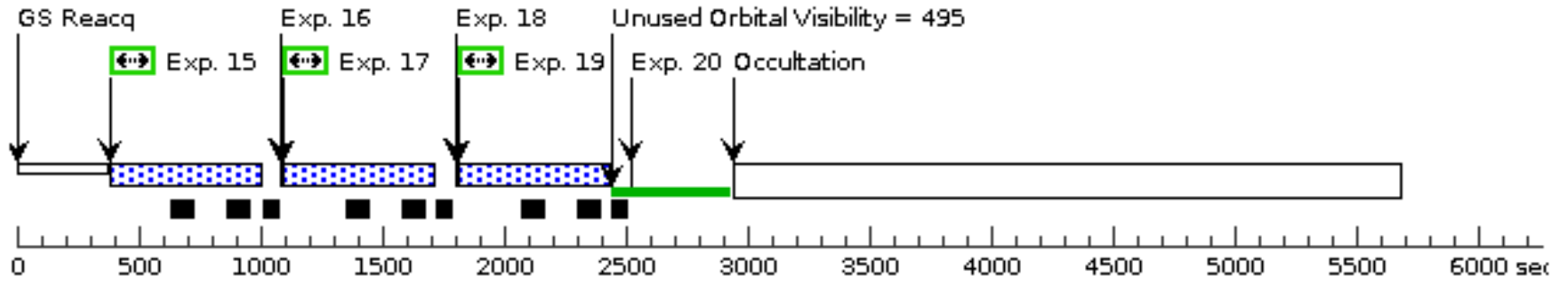
Proposal 17885 - G160M/1600 Feige 48 Segment B LP10 (05) - FUV Focus Sweep Enabling Program at LP7/LP10

21	g160m_160 0_segB_f+4 00 (COS.sp.194 0291)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=22 6; LIFETIME-POS=L P8; SEGMENT=B	POS TARG 0.0,0.0	567 Secs (567 Secs) [==>]	[4]
<i>Comments: This exposure time gives S/N=30 at 1770 A.</i>								
22	Move to +60 0	NONE	COS, ALIGN/OSM		FOCUS=+600		0 Secs (0 Secs) [==>]	[4]
23	g160m_160 0_segB_f+6 00 (COS.sp.194 0291)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=22 6; LIFETIME-POS=L P8; SEGMENT=B	POS TARG 0.0,0.0	567 Secs (567 Secs) [==>]	[4]
<i>Comments: This exposure time gives S/N=30 at 1770 A.</i>								
24	Move to +80 0	NONE	COS, ALIGN/OSM		FOCUS=+800		0 Secs (0 Secs) [==>]	[4]
25	g160m_160 0_segB_f+8 00 (COS.sp.194 0291)	(1) FEIGE-48	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=22 6; LIFETIME-POS=L P8; SEGMENT=B	POS TARG 0.0,0.0	567 Secs (567 Secs) [==>]	[4]
<i>Comments: This exposure time gives S/N=30 at 1770 A.</i>								
26	Move to 0	NONE	COS, ALIGN/OSM		FOCUS=0		0 Secs (0 Secs) [==>]	[4]



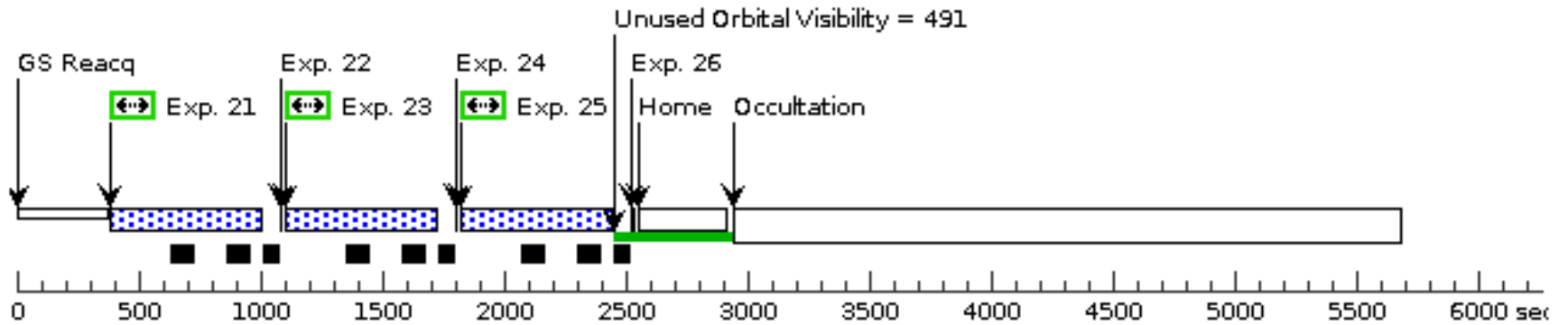
Orbit 3

Server Version: 20250321



Orbit 4

Server Version: 20250321



Proposal 17885 - G160M/1600 CD-22-9142 Segment A LP10 Backup Visit (06) - FUV Focus Sweep Enabling Program at LP7/LP10

Visit	Proposal 17885, G160M/1600 CD-22-9142 Segment A LP10 Backup Visit (06), withdrawn Tue Jul 01 18:00:36 GMT 2025 Diagnostic Status: Warning Scientific Instruments: COS, COS/FUV, COS/NUV Special Requirements: SCHED 100%																
	Diagnosics (G160M/1600 CD-22-9142 Segment A LP10 Backup Visit (06)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave.																
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>(3)</td> <td>CD-22-9142</td> <td>RA: 11 50 38.8492 (177.6618717d) Dec: -23 20 34.60 (-23.34294d) Equinox: J2000</td> <td>Proper Motion RA: 3.498999999999997 mas/yr Proper Motion Dec: -3.580000065994682 mas/yr Parallax: 0.0033981" Epoch of Position: 2000</td> <td>V=11.79</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(3)	CD-22-9142	RA: 11 50 38.8492 (177.6618717d) Dec: -23 20 34.60 (-23.34294d) Equinox: J2000	Proper Motion RA: 3.498999999999997 mas/yr Proper Motion Dec: -3.580000065994682 mas/yr Parallax: 0.0033981" Epoch of Position: 2000	V=11.79	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(3)	CD-22-9142	RA: 11 50 38.8492 (177.6618717d) Dec: -23 20 34.60 (-23.34294d) Equinox: J2000	Proper Motion RA: 3.498999999999997 mas/yr Proper Motion Dec: -3.580000065994682 mas/yr Parallax: 0.0033981" Epoch of Position: 2000	V=11.79	Reference Frame: ICRS												
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p>Category=STAR Description=[SDB] Extended=NO</p>																	

Proposal 17885 - G160M/1600 CD-22-9142 Segment A LP10 Backup Visit (06) - FUV Focus Sweep Enabling Program at LP7/LP10

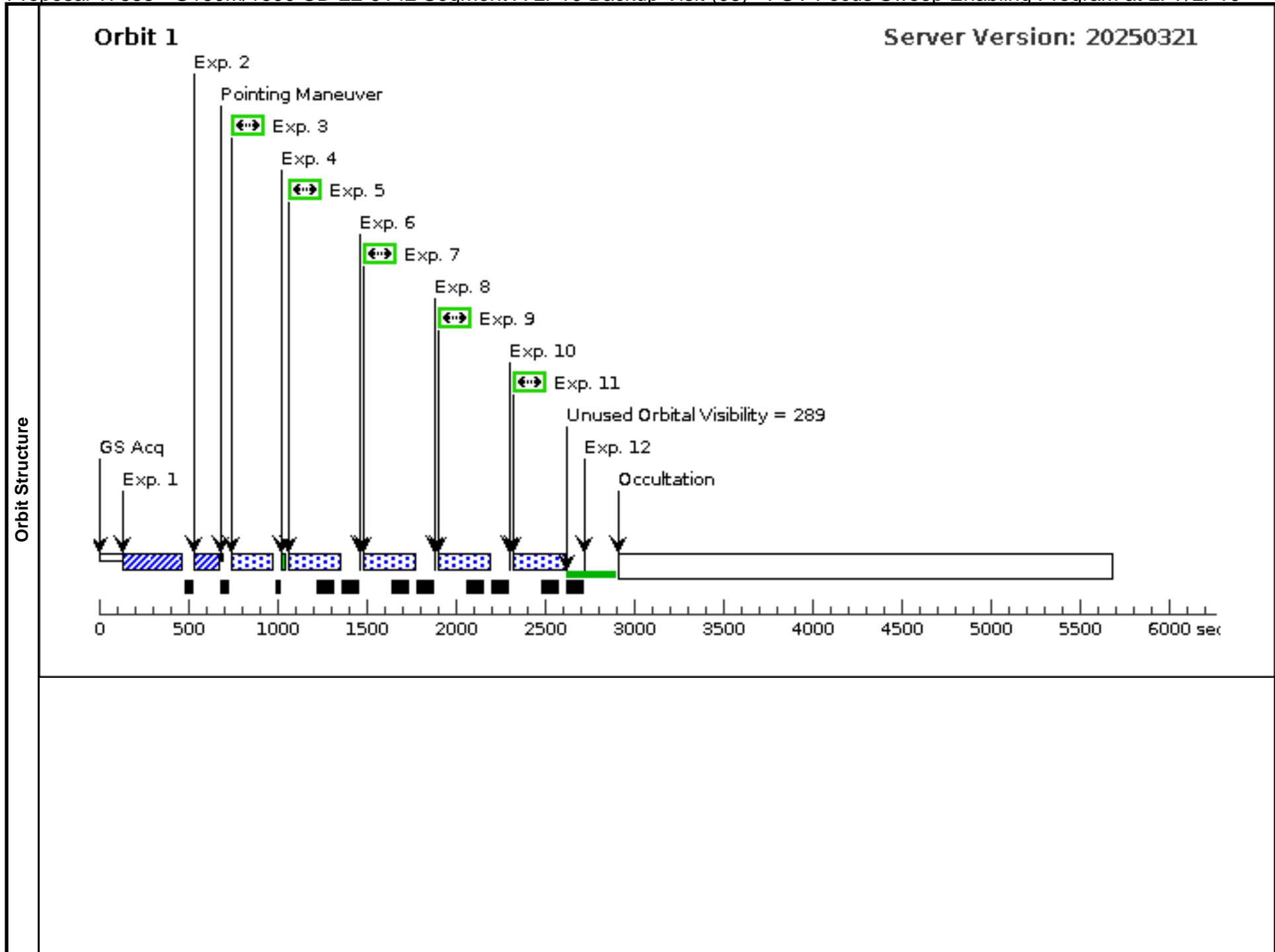
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IMAG E (COS.ta.194 4727)	(3) CD-22-9142	COS/NUV, ACQ/IMAGE, BOA	MIRRORB			14 Secs (14 Secs) [==>]	[1]	
	<i>Comments: S/N = 30</i>									
	2	ACQ/IMAG E (COS.ta.194 4727)	(3) CD-22-9142	COS/NUV, ACQ/IMAGE, BOA	MIRRORB			14 Secs (14 Secs) [==>]	[1]	
	<i>Comments: S/N = 30</i>									
	3	Initialize G160M/1600 at nominal aperture and focus position (COS.sp.194 4729)	(3) CD-22-9142	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=132; LIFETIME-POS=L P8; SEGMENT=A			14 Secs (14 Secs) [==>]	[1]
	4	Move to -1000	NONE	COS, ALIGN/OSM		FOCUS=-1000			0 Secs (0 Secs) [==>]	[1]
	5	g160m_1600_segA_f-1000 (COS.sp.194 4729)	(3) CD-22-9142	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=132; LIFETIME-POS=L P8; SEGMENT=A			238 Secs (238 Secs) [==>]	[1]
	<i>Comments: This exposure time gives S/N=30 at 1745A.</i>									
	6	Move to -800	NONE	COS, ALIGN/OSM		FOCUS=-800			0 Secs (0 Secs) [==>]	[1]
	7	g160m_1600_segA_f-800 (COS.sp.194 4729)	(3) CD-22-9142	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=132; LIFETIME-POS=L P8; SEGMENT=A			238 Secs (238 Secs) [==>]	[1]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>										
8	Move to -600	NONE	COS, ALIGN/OSM		FOCUS=-600			0 Secs (0 Secs) [==>]	[1]	
9	g160m_1600_segA_f-600 (COS.sp.194 4729)	(3) CD-22-9142	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=132; LIFETIME-POS=L P8; SEGMENT=A	POS TARG 0.0,0.0		238 Secs (238 Secs) [==>]	[1]	
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>										
10	Move to -400	NONE	COS, ALIGN/OSM		FOCUS=-400			0 Secs (0 Secs) [==>]	[1]	

Proposal 17885 - G160M/1600 CD-22-9142 Segment A LP10 Backup Visit (06) - FUV Focus Sweep Enabling Program at LP7/LP10

11	g160m_160_0_segA_f-400 (COS.sp.1944729)	(3) CD-22-9142	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=132; LIFETIME-POS=L P8; SEGMENT=A	POS TARG 0.0,0.0	238 Secs (238 Secs) [==>]	[1]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>								
12	Move to -20 0	NONE	COS, ALIGN/OSM		FOCUS=-200		0 Secs (0 Secs) [==>]	[1]
13	g160m_160_0_segA_f-200 (COS.sp.1944729)	(3) CD-22-9142	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=132; LIFETIME-POS=L P8; SEGMENT=A	POS TARG 0.0,0.0	238 Secs (238 Secs) [==>]	[2]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>								
14	Move to -10 0	NONE	COS, ALIGN/OSM		FOCUS=-100		0 Secs (0 Secs) [==>]	[2]
15	g160m_160_0_segA_f-100 (COS.sp.1944729)	(3) CD-22-9142	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=132; LIFETIME-POS=L P8; SEGMENT=A	POS TARG 0.0,0.0	238 Secs (238 Secs) [==>]	[2]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>								
16	Move to 0 0	NONE	COS, ALIGN/OSM		FOCUS=0		0 Secs (0 Secs) [==>]	[2]
17	g160m_160_0_segA_f0 (COS.sp.1944729)	(3) CD-22-9142	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=132; LIFETIME-POS=L P8; SEGMENT=A	POS TARG 0.0,0.0	238 Secs (238 Secs) [==>]	[2]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>								
18	Move to +10 0	NONE	COS, ALIGN/OSM		FOCUS=+100		0 Secs (0 Secs) [==>]	[2]
19	g160m_160_0_segA_f+100 (COS.sp.1944729)	(3) CD-22-9142	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=132; LIFETIME-POS=L P8; SEGMENT=A	POS TARG 0.0,0.0	238 Secs (238 Secs) [==>]	[2]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>								
20	Move to +20 0	NONE	COS, ALIGN/OSM		FOCUS=+200		0 Secs (0 Secs) [==>]	[2]

Proposal 17885 - G160M/1600 CD-22-9142 Segment A LP10 Backup Visit (06) - FUV Focus Sweep Enabling Program at LP7/LP10

21	g160m_160 0_segA_f+2 00 (COS.sp.194 4729)	(3) CD-22-9142	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=13 2; LIFETIME-POS=L P8; SEGMENT=A	238 Secs (238 Secs) [==>]	[2]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>							
22	Move to +40 0	NONE	COS, ALIGN/OSM		FOCUS=+400	0 Secs (0 Secs) [==>]	[2]
23	g160m_160 0_segA_f+4 00 (COS.sp.194 4729)	(3) CD-22-9142	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=13 2; LIFETIME-POS=L P8; SEGMENT=A	238 Secs (238 Secs) [==>]	[2]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>							
24	Move to +60 0	NONE	COS, ALIGN/OSM		FOCUS=+600	0 Secs (0 Secs) [==>]	[2]
25	g160m_160 0_segA_f+6 00 (COS.sp.194 4729)	(3) CD-22-9142	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; POS TARG 0.0,0.0 BUFFER-TIME=13 2; LIFETIME-POS=L P8; SEGMENT=A	238 Secs (238 Secs) [==>]	[3]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>							
26	Move to +80 0	NONE	COS, ALIGN/OSM		FOCUS=+800	0 Secs (0 Secs) [==>]	[3]
27	g160m_160 0_segA_f+8 00 (COS.sp.194 4729)	(3) CD-22-9142	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; POS TARG 0.0,0.0 BUFFER-TIME=13 2; LIFETIME-POS=L P8; SEGMENT=A	238 Secs (238 Secs) [==>]	[3]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>							
28	Move to +10 00	NONE	COS, ALIGN/OSM		FOCUS=+1000	0 Secs (0 Secs) [==>]	[3]
29	g160m_160 0_segA_f+1 000 (COS.sp.194 4729)	(3) CD-22-9142	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; POS TARG 0.0,0.0 BUFFER-TIME=13 2; LIFETIME-POS=L P8; SEGMENT=A	238 Secs (238 Secs) [==>]	[3]
<i>Comments: This exposure time gives S/N=30 at 1745A.</i>							
30	Move to +0	NONE	COS, ALIGN/OSM		FOCUS=+0	0 Secs (0 Secs) [==>]	[3]



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