



## 17884 - Verification of Target Placement for COS at LP7 and 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) WD0947+857	COS/FUV COS/NUV	2	31-Dec-2024 12:00:18.0	yes
02	(2) WD1337+705	COS/FUV COS/NUV	2	31-Dec-2024 12:00:24.0	yes
51	(1) WD0947+857	COS/FUV COS/NUV	2	31-Dec-2024 12:00:28.0	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>
52	(2) WD1337+705	COS/FUV COS/NUV	2	31-Dec-2024 12:00:33.0	yes

8 Total Orbits Used

## ABSTRACT

This proposal will determine the exact spacecraft pointing offsets and the aperture offsets needed for the 7th and the 10th COS FUV lifetime positions (LP7 and LP10). The data from this program will be used to make minor adjustments to the Science Instrument Aperture File (SIAF) in order to center the target in the LP7 and LP10 apertures, as well as allow for a check of the target acquisition centering algorithm for these lifetime positions. The observations to determine the LP7 and LP10 offsets will be obtained with G130M/1291 and G160M/1600, respectively.

## OBSERVING DESCRIPTION

This program will place a G130M/1291/FP-POS=3 spectrum of WD0947+857 at the new 7th lifetime position (LP7; approximately +8.3" relative to LP1) and take a series of exposures while moving the target across the PSA aperture in both the dispersion and cross-dispersion direction (using POS TARG offsets; see below). This program will also place a G160M/1600/FP-POS=3 spectrum of WD1337+705 at the new 10th lifetime position (LP10; approximately -3.7" relative to LP1) and, following the same strategy as with the G130M observations, obtain a series of exposures. The data, for each of these lifetime positions, will be used to: (1) verify that the spectrum falls at the desired location on the detector; (2) measure the throughput as a function of target position; (3) refine the V2/V3 SIAF values; and (4) check ACQ centering algorithms for NUMPOS = 3 and 5.

For G130M (LP7) as well as G160M (LP10) observations, and for both the dispersion and the cross-dispersion directions, we adopt a pattern of POS TARG offsets in arcsec relative to the target center of:

-1.30 -1.10 -0.86 -0.65 -0.48 -0.29 -0.14 0.00 +0.14 +0.29 +0.48 +0.65 +0.86 +1.10 +1.30

Assuming 21 steps/arcsec, this is equivalent to aperture shifts of approximately:

-27 -23 -18 -14 -10 -6 -3 0 +3 +6 +10 +14 +18 +23 +27

The +/-1.30 and +/-0.65 arcsec POS TARG offset positions will be used as a check for the ACQ centering algorithm, for both NUMPOS = 3 (with STEP\_SIZE = 1.30) and NUMPOS = 5 (with STEP\_SIZE = 0.65).

Proposal 17884 (STScI Edit Number: 1, Created: Tuesday, December 31, 2024, 12:00:34PM Eastern Standard Time) - Overview

The dispersion and cross-dispersion scans are each in their own Non-Interruptible Sequence in order to ensure that all the steps of each scan are completed back-to-back. This also ensures that, if there is the need for a re-acquisition due to an interrupt, the zeropoint will stay the same.

The G160M observation structure in this program is similar to that in Program 16849 which used G160M/1600 observations of the same target (WD1337+705) to verify target placement for LP6. The POS TARG offset positions described above match that program as well. The G130M observation specifications in this program are similar to those in Program 16430 which used G130M/1291 observations of the same target (WD0947+857) to verify target placement for LP5.

The G130M science exposures in this program use the Optional Parameter LIFETIME-POS=LP7 in order to use the best-guess target pointing, aperture position, focus, and detector high voltage values for LP7. Offsets will be made relative to the nominal target pointing position. Likewise, the G160M science exposures in this program use the Optional Parameter LIFETIME-POS=LP8 (placeholder for LP10).

The SIAF to be used for the G130M and G160M observations includes the following LP7 and LP8 (LP10) 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
LFBOA10	230.1067	-240.1313
LFPSA10	230.1067	-240.1313
LAPTFBOAF10	220.7325	-249.5055
LAPTFPSAF10	239.4809	-230.7571

The FSW patchable constant table pcmech\_ApMXDispPosition should use the following positions:

LP7:

```
{ -49, 126 }, /* PSA_LP7 */  
{ -98, -153 }, /* BOA_LP7 */  
{ -98, -153 }, /* FCA_LP7 */  
{ 32, 126 }, /* WCA_LP7 */
```

LP8 (LP10):

```
{ 206, 126 }, /* PSA_LP8 */  
{ -73, -153 }, /* BOA_LP8 */  
{ -73, -153 }, /* FCA_LP8 */  
{ 206, 126 } /* WCA_LP8 */
```

The HV values to be used with G130M/1291 should be: LP7 FUVA/FUVB = 163/163

The HV values to be used with G160M/1600 should be: LP8 (LP10) FUVA/FUVB = 178/175

Wavecalcs are turned off for all observations in this program (WAVECAL=NO, FLASH=NO). This is needed to avoid the light leak above 5.5" for the LP7 (G130M) observations and to reduce overheads (increased observing efficiency) for the LP10 (G160M) observations. Wavelength calibration is not required to achieve the goal of this program.

Analysis of the data from this program will provide the values needed to update the HST pointing in the SIAF. These values are needed before executing the LP7 and LP10 calibration programs. The pointing will be located to within 0.05 arcseconds in the dispersion and cross-dispersion directions.

We would like this program to execute as soon as feasible.

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

- (1) Please turn off calibration for all the COS/FUV exposures. These 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.

For request (1) qexposure.control\_id is modified. For request (2) qeassociation records are deleted. Contact G. Chapman/M. Reinhart for further information about this process.

Proposal 17884 - Visit 01 - WD0947+857 - G130M(LP7) (01) - Verification of Target Placement for COS at LP7 and LP10

Tue Dec 31 17:00:34 GMT 2024

<b>Visit</b>	<p><b>Proposal 17884, Visit 01 - WD0947+857 - G130M(LP7) (01), failed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 01-NOV-2024:00:00:00 AND 28-FEB-2025:00:00:00</p> <p><i>Comments: We adopt a pattern of POS TARG offsets in arcsec relative to the target center of:</i>                  -1.30 -1.10 -0.86 -0.65 -0.48 -0.29 -0.14 0.00 +0.14 +0.29 +0.48 +0.65 +0.86 +1.10 +1.30</p> <p><i>Assuming 21 steps/arcsec, this is equivalent to aperture shifts of approximately:</i>                  -27 -23 -18 -14 -10 -6 -3 0 +3 +6 +10 +14 +18 +23 +27</p> <p><i>The +/-1.30 and +/-0.65 arcsec POS TARG offset positions will be used as a check for the ACQ centering algorithm, for both NUMPOS = 3 (with STEP_SIZE = 1.30) and NUMPOS = 5 (with STEP_SIZE = 0.65).</i></p> <p><i>The dispersion and cross-dispersion scans are each in their own Non-Interruptible Sequence in order to ensure that all the steps of each scan are completed back-to-back. This also ensures that, if there is the need for a re-acquisition due to an interrupt, the zeropoint will stay the same.</i></p>						
	<b>Diagnostics</b>	(Visit 01 - WD0947+857 - G130M(LP7) (01)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 01 - WD0947+857 - G130M(LP7) (01)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 01 - WD0947+857 - G130M(LP7) (01)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 01 - WD0947+857 - G130M(LP7) (01)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 01 - WD0947+857 - G130M(LP7) (01)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 01 - WD0947+857 - G130M(LP7) (01)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 01 - WD0947+857 - G130M(LP7) (01)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 01 - WD0947+857 - G130M(LP7) (01)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT					
<b>Fixed Targets</b>		<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
		(1)	WD0947+857	RA: 09 57 54.2971 (149.4762379d)	Proper Motion RA: -28.200 mas/yr	V=15.72+/-0.08	Reference Frame: ICRS
			Alt Name1: RXJ0957.8+8529	Dec: +85 29 40.88 (85.49469d) Equinox: J2000	Proper Motion Dec: -27.159 mas/yr Parallax: 0.0063314" Epoch of Position: 2000	B = 15.46 +/- 0.08; R = 16.11 +/- 0.11; G = 15.724552 +/- 0.002 842; J = 16.54 +/- 0.15; H = 16.1 5 +/- 0.26	
			<p><i>Comments:</i>                  Category=EXT-STAR                  Description=[DA]                  Extended=NO</p>				

Proposal 17884 - Visit 01 - WD0947+857 - G130M(LP7) (01) - Verification of Target Placement for COS at LP7 and 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 - BOA Mirror A (COS.ta.1938931)	(1) WD0947+857	COS/NUV, ACQ/IMAGE, BOA	MIRRORA		Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	22 Secs (22 Secs) [==>]	[1]	
	<i>Comments: S/N ~ 30 is reached in 22 seconds using BOA MIRROR A ACQ/IMAGE</i>									
	2	G130M/129 1 exposure at nominal aperture position (COS.sp.1938925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=236; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[1]
	<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
	3	G130M/129 1 exposure at (0, -1.30) (COS.sp.1938925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=236; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,-1.30	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[1]
	<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
4	G130M/129 1 exposure at (0, -1.1) (COS.sp.1938925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=236; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,-1.10	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[1]	
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>										
5	G130M/129 1 exposure at (0, -0.86) (COS.sp.1938925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=236; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,-0.86	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[1]	
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>										
6	G130M/129 1 exposure at (0, -0.65) (COS.sp.1938925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=236; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,-0.65	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[1]	
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>										

Proposal 17884 - Visit 01 - WD0947+857 - G130M(LP7) (01) - Verification of Target Placement for COS at LP7 and LP10

7	G130M/129 1 exposure at (0, -0.48) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,-0.48	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
8	G130M/129 1 exposure at (0, -0.29) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,-0.29	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
9	G130M/129 1 exposure at (0, -0.14) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,-0.14	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
10	G130M/129 1 exposure at nominal aperture position (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
11	G130M/129 1 exposure at (0, 0.14) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0.14	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
12	G130M/129 1 exposure at (0, 0.29) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0.29	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									

Proposal 17884 - Visit 01 - WD0947+857 - G130M(LP7) (01) - Verification of Target Placement for COS at LP7 and LP10

13	G130M/129 1 exposure at (0, 0.48) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0.48	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
14	G130M/129 1 exposure at (0, 0.65) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0.65	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
15	G130M/129 1 exposure at (0, 0.86) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0.86	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
16	G130M/129 1 exposure at (0, 1.1) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,1.1	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
17	G130M/129 1 exposure at (0, 1.30) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,1.30	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
18	G130M/129 1 exposure at nominal aperture position (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									

Proposal 17884 - Visit 01 - WD0947+857 - G130M(LP7) (01) - Verification of Target Placement for COS at LP7 and LP10

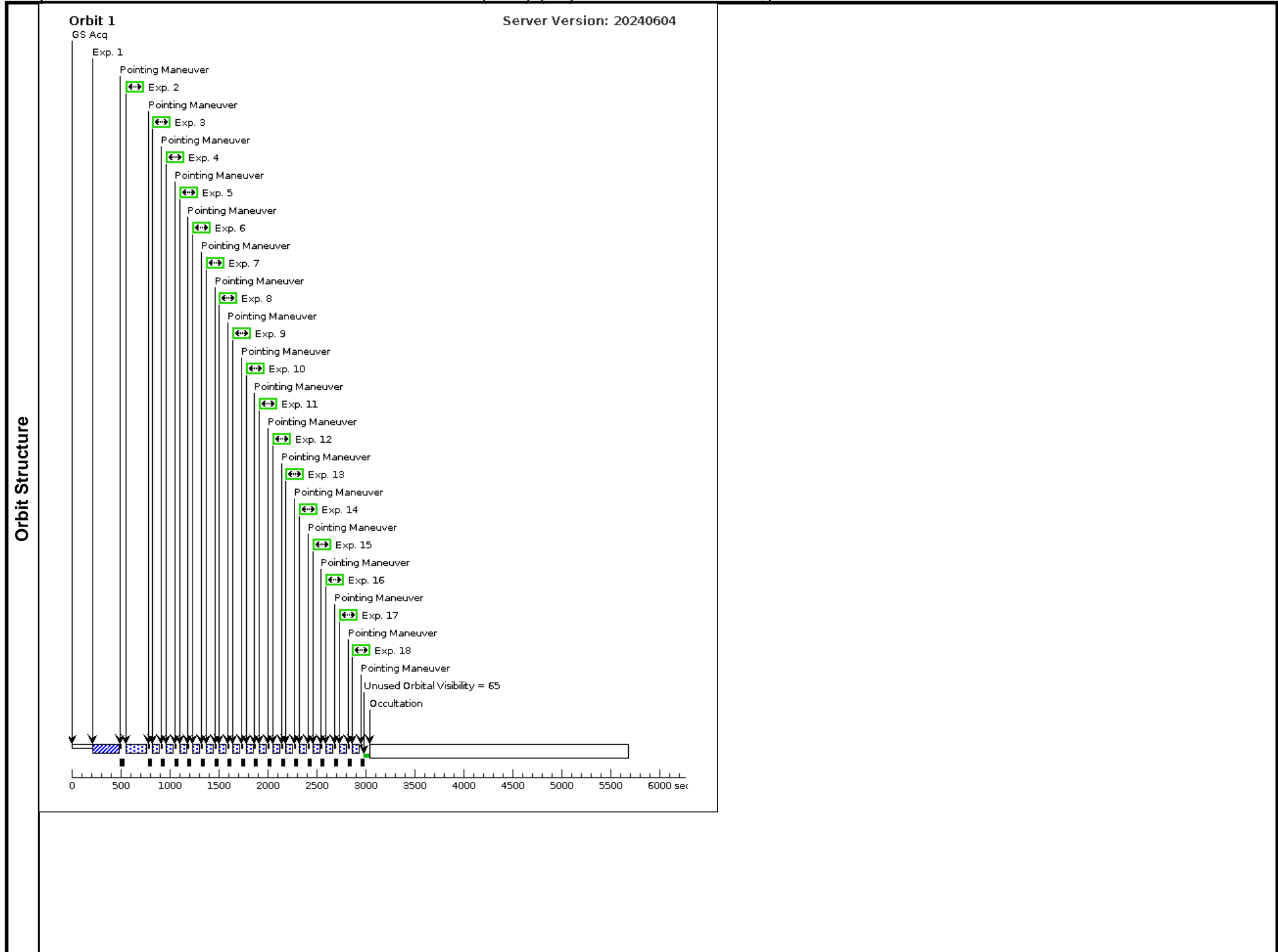
19	ACQ/IMAG E - BOA Mirror A (COS.ta.1938931)	(1) WD0947+857	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			Sequence 19-36 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	22 Secs (22 Secs) [==>]	[2]
<i>Comments: S/N ~ 30 is reached in 22 seconds using BOA MIRROR A ACQ/IMAGE</i>									
20	G130M/129 1 exposure at nominal aperture position (COS.sp.1938925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0	Sequence 19-36 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
21	G130M/129 1 exposure at (-1.30, 0) (COS.sp.1938925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG -1.30,0	Sequence 19-36 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
22	G130M/129 1 exposure at (-1.1, 0) (COS.sp.1938925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG -1.10,0	Sequence 19-36 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
23	G130M/129 1 exposure at (-0.86, 0) (COS.sp.1938925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG -0.86,0	Sequence 19-36 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
24	G130M/129 1 exposure at (-0.65, 0) (COS.sp.1938925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG -0.65,0	Sequence 19-36 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									

Proposal 17884 - Visit 01 - WD0947+857 - G130M(LP7) (01) - Verification of Target Placement for COS at LP7 and LP10

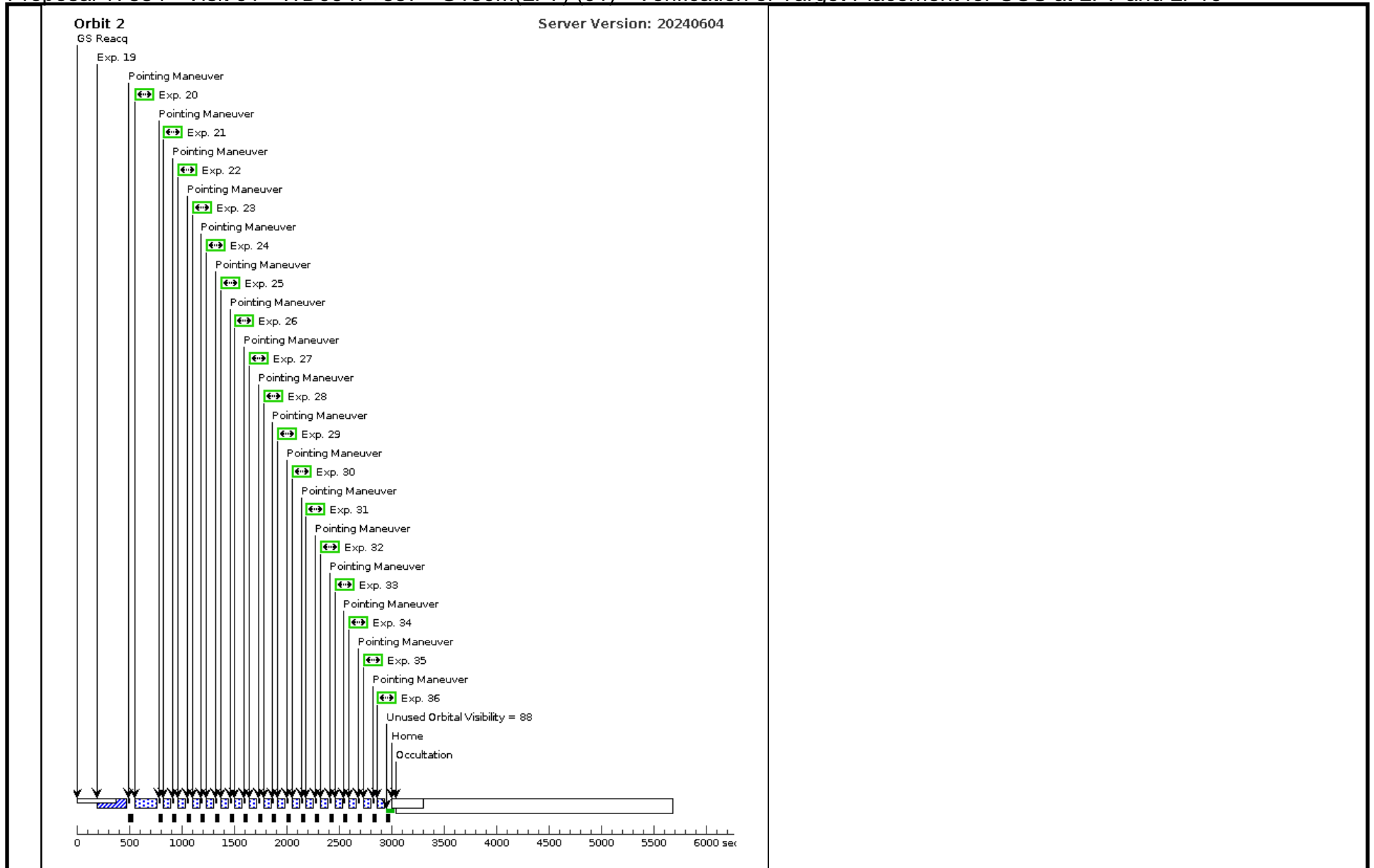
25	G130M/129 1 exposure at (-0.48, 0) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG -0.48,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
26	G130M/129 1 exposure at (-0.29, 0) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG -0.29,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
27	G130M/129 1 exposure at (-0.14, 0) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG -0.14,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
28	G130M/129 1 exposure at nominal aperture position (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
29	G130M/129 1 exposure at (0.14, 0) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0.14,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
30	G130M/129 1 exposure at (0.29, 0) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0.29,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									

Proposal 17884 - Visit 01 - WD0947+857 - G130M(LP7) (01) - Verification of Target Placement for COS at LP7 and LP10

31	G130M/129 1 exposure at (0.48, 0) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0.48,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
32	G130M/129 1 exposure at (0.65, 0) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0.65,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
33	G130M/129 1 exposure at (0.86, 0) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0.86,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
34	G130M/129 1 exposure at (1.1, 0) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 1.1,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
35	G130M/129 1 exposure at (1.30, 0) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 1.30,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
36	G130M/129 1 exposure at nominal aperture position (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (01)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									



Proposal 17884 - Visit 01 - WD0947+857 - G130M(LP7) (01) - Verification of Target Placement for COS at LP7 and LP10



Proposal 17884 - Visit 02 - WD1337+705 - G160M(LP10) (02) - Verification of Target Placement for COS at LP7 and LP10

Tue Dec 31 17:00:35 GMT 2024

<b>Visit</b>	<p><b>Proposal 17884, Visit 02 - WD1337+705 - G160M(LP10) (02), failed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 01-NOV-2024:00:00:00 AND 28-FEB-2025:00:00:00</p> <p><i>Comments: We adopt a pattern of POS TARG offsets in arcsec relative to the target center of:</i>                  -1.30 -1.10 -0.86 -0.65 -0.48 -0.29 -0.14 0.00 +0.14 +0.29 +0.48 +0.65 +0.86 +1.10 +1.30</p> <p><i>Assuming 21 steps/arcsec, this is equivalent to aperture shifts of approximately:</i>                  -27 -23 -18 -14 -10 -6 -3 0 +3 +6 +10 +14 +18 +23 +27</p> <p><i>The +/-1.30 and +/-0.65 arcsec POS TARG offset positions will be used as a check for the ACQ centering algorithm, for both NUMPOS = 3 (with STEP_SIZE = 1.30) and NUMPOS = 5 (with STEP_SIZE = 0.65).</i></p> <p><i>The dispersion and cross-dispersion scans are each in their own Non-Interruptible Sequence in order to ensure that all the steps of each scan are completed back-to-back. This also ensures that, if there is the need for a re-acquisition due to an interrupt, the zeropoint will stay the same.</i></p>					
	<p>(Visit 02 - WD1337+705 - G160M(LP10) (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.</p> <p>(Visit 02 - WD1337+705 - G160M(LP10) (02)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE</p> <p>(Visit 02 - WD1337+705 - G160M(LP10) (02)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE</p> <p>(Visit 02 - WD1337+705 - G160M(LP10) (02)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE</p> <p>(Visit 02 - WD1337+705 - G160M(LP10) (02)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE</p> <p>(Visit 02 - WD1337+705 - G160M(LP10) (02)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT</p> <p>(Visit 02 - WD1337+705 - G160M(LP10) (02)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT</p> <p>(Visit 02 - WD1337+705 - G160M(LP10) (02)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT</p> <p>(Visit 02 - WD1337+705 - G160M(LP10) (02)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT</p>					
<b>Diagnosics</b>						
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(2)	WD1337+705 Alt Name1: LAWD-52	RA: 13 38 50.4781 (204.7103254d) Dec: +70 17 7.64 (70.28546d) Equinox: J2000	Proper Motion RA: -402.093 mas/yr Proper Motion Dec: -24.608 mas/yr Parallax: 0.0377083" Epoch of Position: 2000 Redshift: 0.000087	V=12.6+/-0.01 U = 11.807; B = 12.54 +/- 0.01; R = 13.01 +/- 0.05; G = 12.7910 +/- 0.0004; I = 12.979; J = 13.24 8 +/- 0.024; H = 13.357 +/- 0.02 7; K = 13.451 +/- 0.035	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Values then updated to those found at SIMBAD from ICRS/GAIA2 (<a href="http://simbad.u-strasbg.fr/simbad/sim-basic?Ident=WD1337%2B705&amp;submit=SIMBAD+search">http://simbad.u-strasbg.fr/simbad/sim-basic?Ident=WD1337%2B705&amp;submit=SIMBAD+search</a>)</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[DA]</i></p> <p><i>Extended=NO</i></p>						

Proposal 17884 - Visit 02 - WD1337+705 - G160M(LP10) (02) - Verification of Target Placement for COS at LP7 and LP10

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IMAG E - BOA Mirror A (COS.ta.1938992)	(2) WD1337+705	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (02)	3 Secs (3 Secs) [==>]	[1]
<i>Comments: S/N = 30 is reached in 2.86 seconds using BOA MIRROR A ACQ/IMAGE</i>									
2	G160M/1600 exposure at nominal aperture position (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (02)	21 Secs (21 Secs) [==>]	[1]
<i>Comments: t_exp = 21.0 gives a S/N = 4.55 per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</i>									
3	G160M/1600 exposure at (0, -1.3) (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,-1.3	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (02)	21 Secs (21 Secs) [==>]	[1]
<i>Comments: t_exp = 21.0 gives a S/N = 4.55 per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</i>									
4	G160M/1600 exposure at (0, -1.1) (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,-1.10	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (02)	21 Secs (21 Secs) [==>]	[1]
<i>Comments: t_exp = 21.0 gives a S/N = 4.55 per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</i>									
5	G160M/1600 exposure at (0, -0.86) (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,-0.86	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (02)	21 Secs (21 Secs) [==>]	[1]
<i>Comments: t_exp = 21.0 gives a S/N = 4.55 per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</i>									

Exposures

Proposal 17884 - Visit 02 - WD1337+705 - G160M(LP10) (02) - Verification of Target Placement for COS at LP7 and LP10

6	G160M/160 0 exposure a t (0, -0.65) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,-0.65	Sequence 1-18 Non-I nt in Visit 02 - WD1 337+705 - G160M(L P10) (02)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
7	G160M/160 0 exposure a t (0, -0.48) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,-0.48	Sequence 1-18 Non-I nt in Visit 02 - WD1 337+705 - G160M(L P10) (02)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
8	G160M/160 0 exposure a t (0, -0.29) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,-0.29	Sequence 1-18 Non-I nt in Visit 02 - WD1 337+705 - G160M(L P10) (02)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
9	G160M/160 0 exposure a t (0, -0.14) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,-0.14	Sequence 1-18 Non-I nt in Visit 02 - WD1 337+705 - G160M(L P10) (02)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
10	G160M/160 0 exposure a t nominal ap erture positi on (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0	Sequence 1-18 Non-I nt in Visit 02 - WD1 337+705 - G160M(L P10) (02)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									

Proposal 17884 - Visit 02 - WD1337+705 - G160M(LP10) (02) - Verification of Target Placement for COS at LP7 and LP10

11	G160M/160 0 exposure at (0, 0.14) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0.14	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (02)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
12	G160M/160 0 exposure at (0, 0.29) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0.29	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (02)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
13	G160M/160 0 exposure at (0, 0.48) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0.48	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (02)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
14	G160M/160 0 exposure at (0, 0.65) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0.65	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (02)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
15	G160M/160 0 exposure at (0, 0.86) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0.86	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (02)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									

Proposal 17884 - Visit 02 - WD1337+705 - G160M(LP10) (02) - Verification of Target Placement for COS at LP7 and LP10

16	G160M/1600 exposure at (0, 1.1) (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,1.1	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (02)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
17	G160M/1600 exposure at (0, 1.3) (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,1.3	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (02)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
18	G160M/1600 exposure at nominal aperture position (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (02)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
19	ACQ/IMAGE Error A (COS.ta.1938992)	(2) WD1337+705	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			Sequence 19-36 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (02)	3 Secs (3 Secs) [==>]	[2]
<p>Comments: <math>S/N = 30</math> is reached in 2.86 seconds using BOA MIRROR A ACQ/IMAGE</p>									
20	G160M/1600 exposure at nominal aperture position (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0	Sequence 19-36 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (02)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
21	G160M/1600 exposure at (-1.3, 0) (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG -1.3,0	Sequence 19-36 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (02)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									

Proposal 17884 - Visit 02 - WD1337+705 - G160M(LP10) (02) - Verification of Target Placement for COS at LP7 and LP10

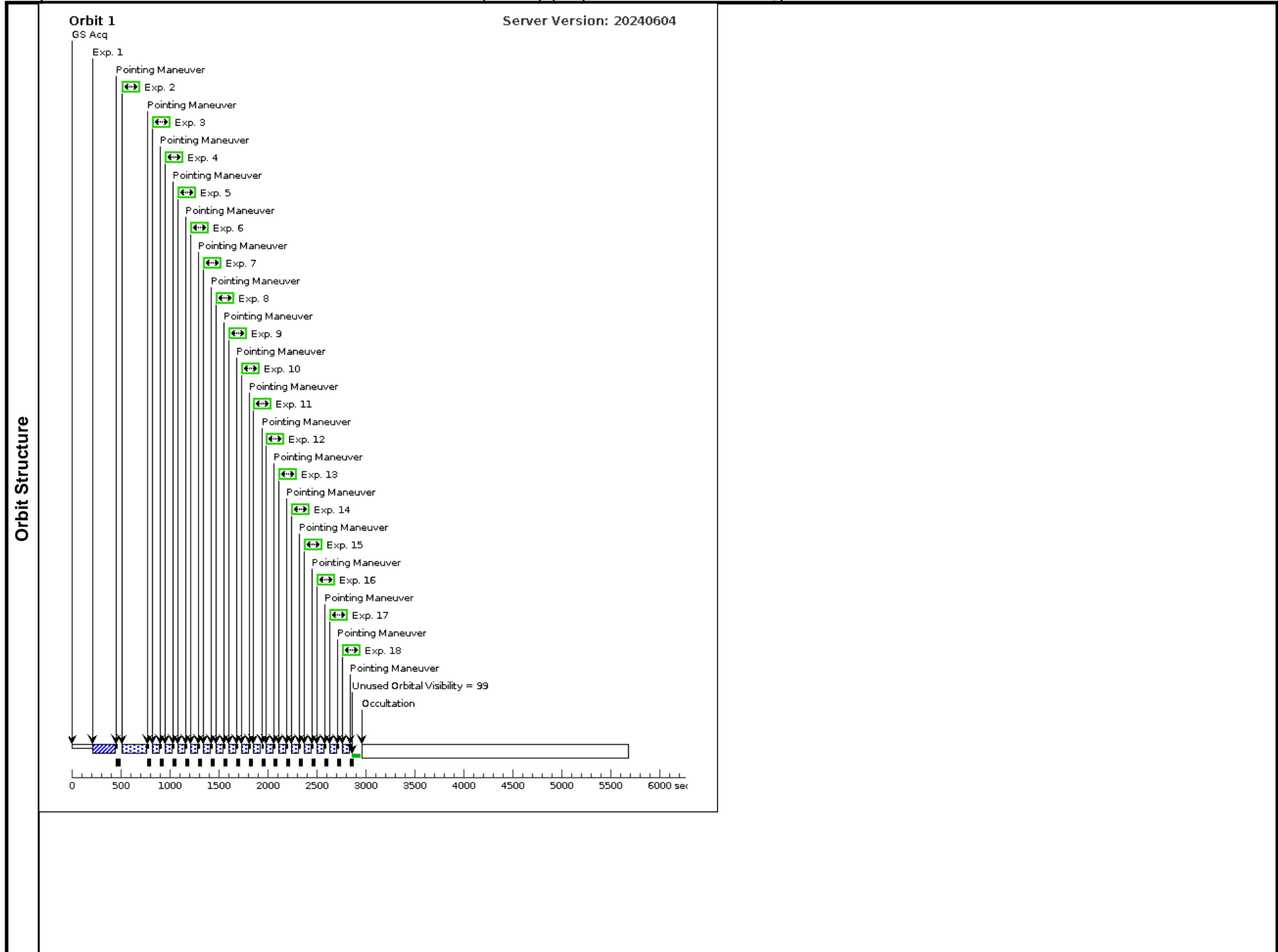
22	G160M/160 0 exposure a t (-1.1, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG -1.10,0	Sequence 19-36 Non -Int in Visit 02 - WD 1337+705 - G160M( LP10) (02)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
23	G160M/160 0 exposure a t (-0.86, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG -0.86,0	Sequence 19-36 Non -Int in Visit 02 - WD 1337+705 - G160M( LP10) (02)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
24	G160M/160 0 exposure a t (-0.65, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG -0.65,0	Sequence 19-36 Non -Int in Visit 02 - WD 1337+705 - G160M( LP10) (02)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
25	G160M/160 0 exposure a t (-0.48, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG -0.48,0	Sequence 19-36 Non -Int in Visit 02 - WD 1337+705 - G160M( LP10) (02)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
26	G160M/160 0 exposure a t (-0.29, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG -0.29,0	Sequence 19-36 Non -Int in Visit 02 - WD 1337+705 - G160M( LP10) (02)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									

Proposal 17884 - Visit 02 - WD1337+705 - G160M(LP10) (02) - Verification of Target Placement for COS at LP7 and LP10

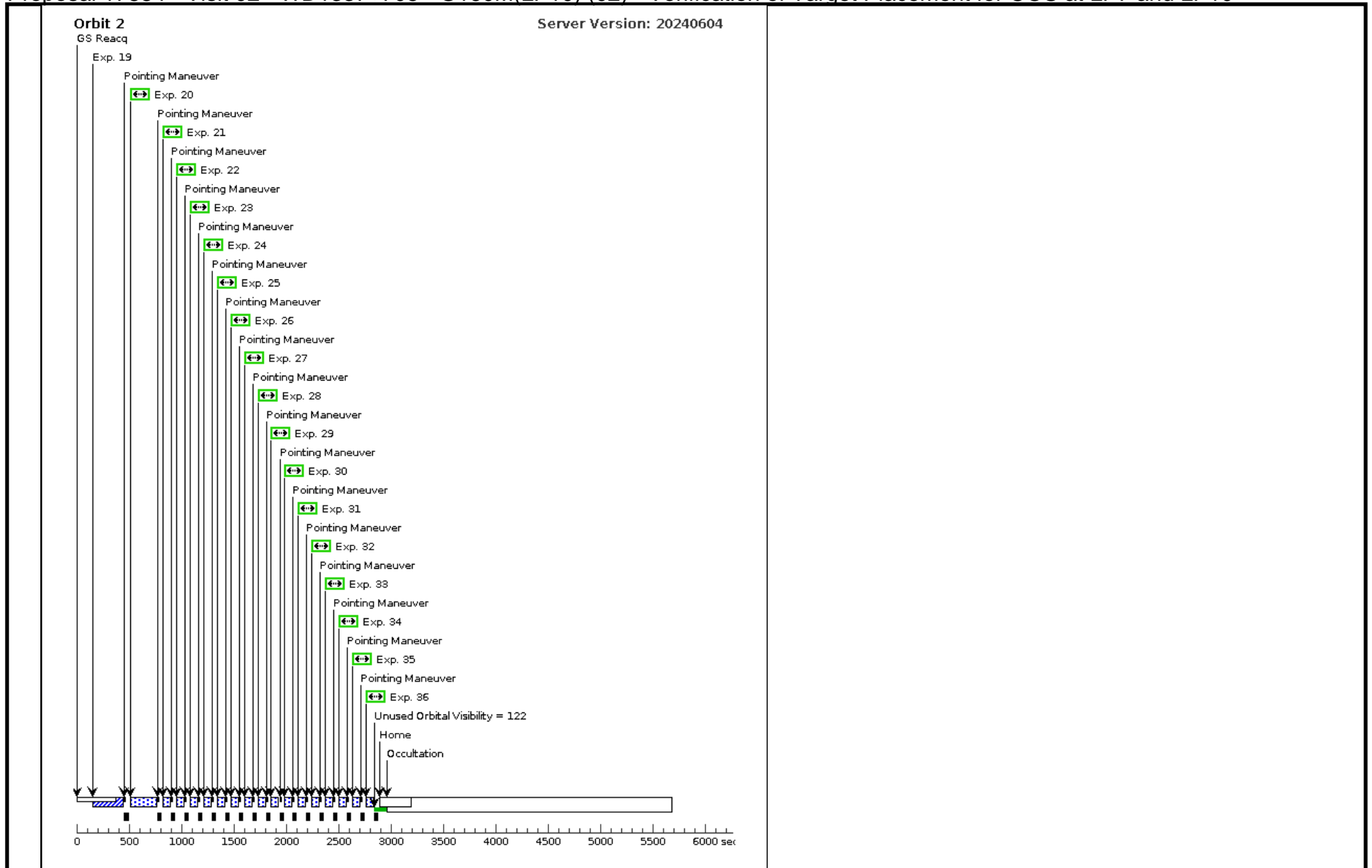
27	G160M/160 0 exposure a t (-0.14, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG -0.14,0	Sequence 19-36 Non -Int in Visit 02 - WD 1337+705 - G160M( LP10) (02)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
28	G160M/160 0 exposure a t nominal ap erture positi on (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0	Sequence 19-36 Non -Int in Visit 02 - WD 1337+705 - G160M( LP10) (02)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
29	G160M/160 0 exposure a t (0.14, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0.14,0	Sequence 19-36 Non -Int in Visit 02 - WD 1337+705 - G160M( LP10) (02)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
30	G160M/160 0 exposure a t (0.29, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0.29,0	Sequence 19-36 Non -Int in Visit 02 - WD 1337+705 - G160M( LP10) (02)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
31	G160M/160 0 exposure a t (0.48, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0.48,0	Sequence 19-36 Non -Int in Visit 02 - WD 1337+705 - G160M( LP10) (02)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									

Proposal 17884 - Visit 02 - WD1337+705 - G160M(LP10) (02) - Verification of Target Placement for COS at LP7 and LP10

32	G160M/160 0 exposure at (0.65, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0.65,0	Sequence 19-36 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (02)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
33	G160M/160 0 exposure at (0.86, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0.86,0	Sequence 19-36 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (02)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
34	G160M/160 0 exposure at (1.1, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 1.1,0	Sequence 19-36 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (02)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
35	G160M/160 0 exposure at (1.3, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 1.3,0	Sequence 19-36 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (02)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
36	G160M/160 0 exposure at nominal aperture position (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0	Sequence 19-36 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (02)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									



Proposal 17884 - Visit 02 - WD1337+705 - G160M(LP10) (02) - Verification of Target Placement for COS at LP7 and LP10



Proposal 17884 - Visit 01 - WD0947+857 - G130M(LP7) (51) - Verification of Target Placement for COS at LP7 and LP10

Tue Dec 31 17:00:35 GMT 2024

<b>Visit</b>	<p><b>Proposal 17884, Visit 01 - WD0947+857 - G130M(LP7) (51)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 01-NOV-2024:00:00:00 AND 28-FEB-2025:00:00:00</p> <p><i>Comments: We adopt a pattern of POS TARG offsets in arcsec relative to the target center of:</i>                  -1.30 -1.10 -0.86 -0.65 -0.48 -0.29 -0.14 0.00 +0.14 +0.29 +0.48 +0.65 +0.86 +1.10 +1.30</p> <p><i>Assuming 21 steps/arcsec, this is equivalent to aperture shifts of approximately:</i>                  -27 -23 -18 -14 -10 -6 -3 0 +3 +6 +10 +14 +18 +23 +27</p> <p><i>The +/-1.30 and +/-0.65 arcsec POS TARG offset positions will be used as a check for the ACQ centering algorithm, for both NUMPOS = 3 (with STEP_SIZE = 1.30) and NUMPOS = 5 (with STEP_SIZE = 0.65).</i></p> <p><i>The dispersion and cross-dispersion scans are each in their own Non-Interruptible Sequence in order to ensure that all the steps of each scan are completed back-to-back. This also ensures that, if there is the need for a re-acquisition due to an interrupt, the zeropoint will stay the same.</i></p> <p><i>HOPR repeat of visit 01.</i></p>						
	<b>Diagnostics</b>	(Visit 01 - WD0947+857 - G130M(LP7) (51)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 01 - WD0947+857 - G130M(LP7) (51)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 01 - WD0947+857 - G130M(LP7) (51)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 01 - WD0947+857 - G130M(LP7) (51)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 01 - WD0947+857 - G130M(LP7) (51)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 01 - WD0947+857 - G130M(LP7) (51)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 01 - WD0947+857 - G130M(LP7) (51)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 01 - WD0947+857 - G130M(LP7) (51)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT					
<b>Fixed Targets</b>		<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
		(1)	WD0947+857	RA: 09 57 54.2971 (149.4762379d)	Proper Motion RA: -28.200 mas/yr	V=15.72+/-0.08	Reference Frame: ICRS
			Alt Name1:	Dec: +85 29 40.88 (85.49469d)	Proper Motion Dec: -27.159 mas/yr	B = 15.46 +/- 0.08; R = 16.11 +/-	
			RXJ0957.8+8529	Equinox: J2000	Parallax: 0.0063314"	- 0.11; G = 15.724552 +/- 0.002	
					Epoch of Position: 2000	842; J = 16.54 +/- 0.15; H = 16.1	
						5 +/- 0.26	
	<p><i>Comments:</i>                  Category=EXT-STAR                  Description=[DA]                  Extended=NO</p>						

Proposal 17884 - Visit 01 - WD0947+857 - G130M(LP7) (51) - Verification of Target Placement for COS at LP7 and 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 - BOA Mirror A (COS.ta.1938931)	(1) WD0947+857	COS/NUV, ACQ/IMAGE, BOA	MIRRORA		Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	22 Secs (22 Secs) [==>]	[1]	
	<i>Comments: S/N ~ 30 is reached in 22 seconds using BOA MIRROR A ACQ/IMAGE</i>									
	2	G130M/129 1 exposure at nominal aperture position (COS.sp.1938925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=236; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[1]
	<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
	3	G130M/129 1 exposure at (0, -1.30) (COS.sp.1938925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=236; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,-1.30	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[1]
	<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
4	G130M/129 1 exposure at (0, -1.1) (COS.sp.1938925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=236; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,-1.10	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[1]	
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>										
5	G130M/129 1 exposure at (0, -0.86) (COS.sp.1938925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=236; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,-0.86	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[1]	
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>										
6	G130M/129 1 exposure at (0, -0.65) (COS.sp.1938925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=236; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,-0.65	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[1]	
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>										

Proposal 17884 - Visit 01 - WD0947+857 - G130M(LP7) (51) - Verification of Target Placement for COS at LP7 and LP10

7	G130M/129 1 exposure at (0, -0.48) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,-0.48	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
8	G130M/129 1 exposure at (0, -0.29) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,-0.29	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
9	G130M/129 1 exposure at (0, -0.14) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,-0.14	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
10	G130M/129 1 exposure at nominal aperture position (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
11	G130M/129 1 exposure at (0, 0.14) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0.14	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
12	G130M/129 1 exposure at (0, 0.29) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0.29	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									

Proposal 17884 - Visit 01 - WD0947+857 - G130M(LP7) (51) - Verification of Target Placement for COS at LP7 and LP10

13	G130M/129 1 exposure at (0, 0.48) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0.48	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
14	G130M/129 1 exposure at (0, 0.65) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0.65	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
15	G130M/129 1 exposure at (0, 0.86) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0.86	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
16	G130M/129 1 exposure at (0, 1.1) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,1.1	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
17	G130M/129 1 exposure at (0, 1.30) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,1.30	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
18	G130M/129 1 exposure at nominal aperture position (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0	Sequence 1-18 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[1]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									

Proposal 17884 - Visit 01 - WD0947+857 - G130M(LP7) (51) - Verification of Target Placement for COS at LP7 and LP10

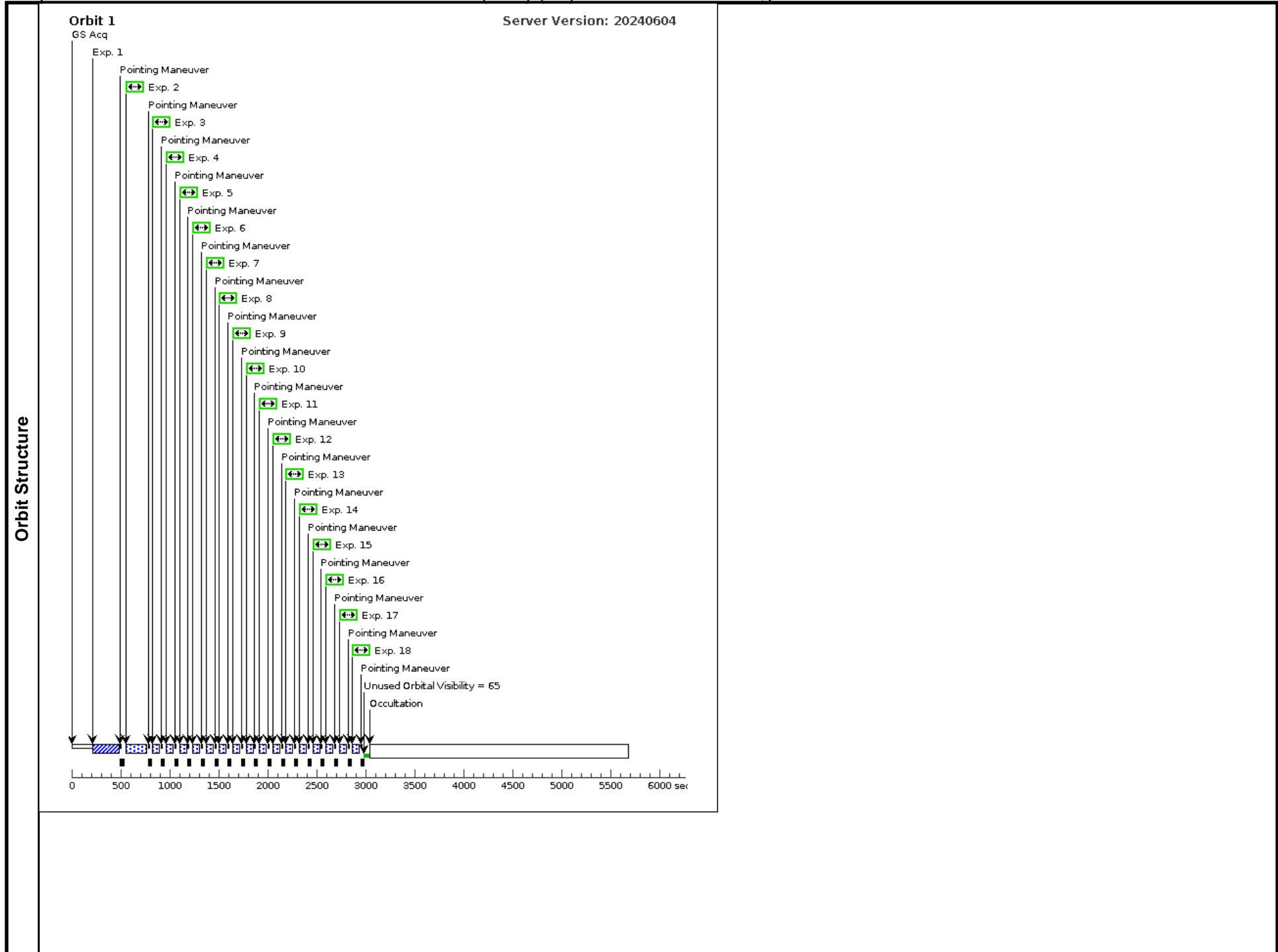
19	ACQ/IMAG E - BOA Mirror A (COS.ta.1938931)	(1) WD0947+857	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			Sequence 19-36 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	22 Secs (22 Secs) [==>]	[2]
<i>Comments: S/N ~ 30 is reached in 22 seconds using BOA MIRROR A ACQ/IMAGE</i>									
20	G130M/129 1 exposure at nominal aperture position (COS.sp.1938925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0	Sequence 19-36 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
21	G130M/129 1 exposure at (-1.30, 0) (COS.sp.1938925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG -1.30,0	Sequence 19-36 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
22	G130M/129 1 exposure at (-1.1, 0) (COS.sp.1938925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG -1.10,0	Sequence 19-36 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
23	G130M/129 1 exposure at (-0.86, 0) (COS.sp.1938925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG -0.86,0	Sequence 19-36 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
24	G130M/129 1 exposure at (-0.65, 0) (COS.sp.1938925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG -0.65,0	Sequence 19-36 Non-Int in Visit 01 - WD0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									

Proposal 17884 - Visit 01 - WD0947+857 - G130M(LP7) (51) - Verification of Target Placement for COS at LP7 and LP10

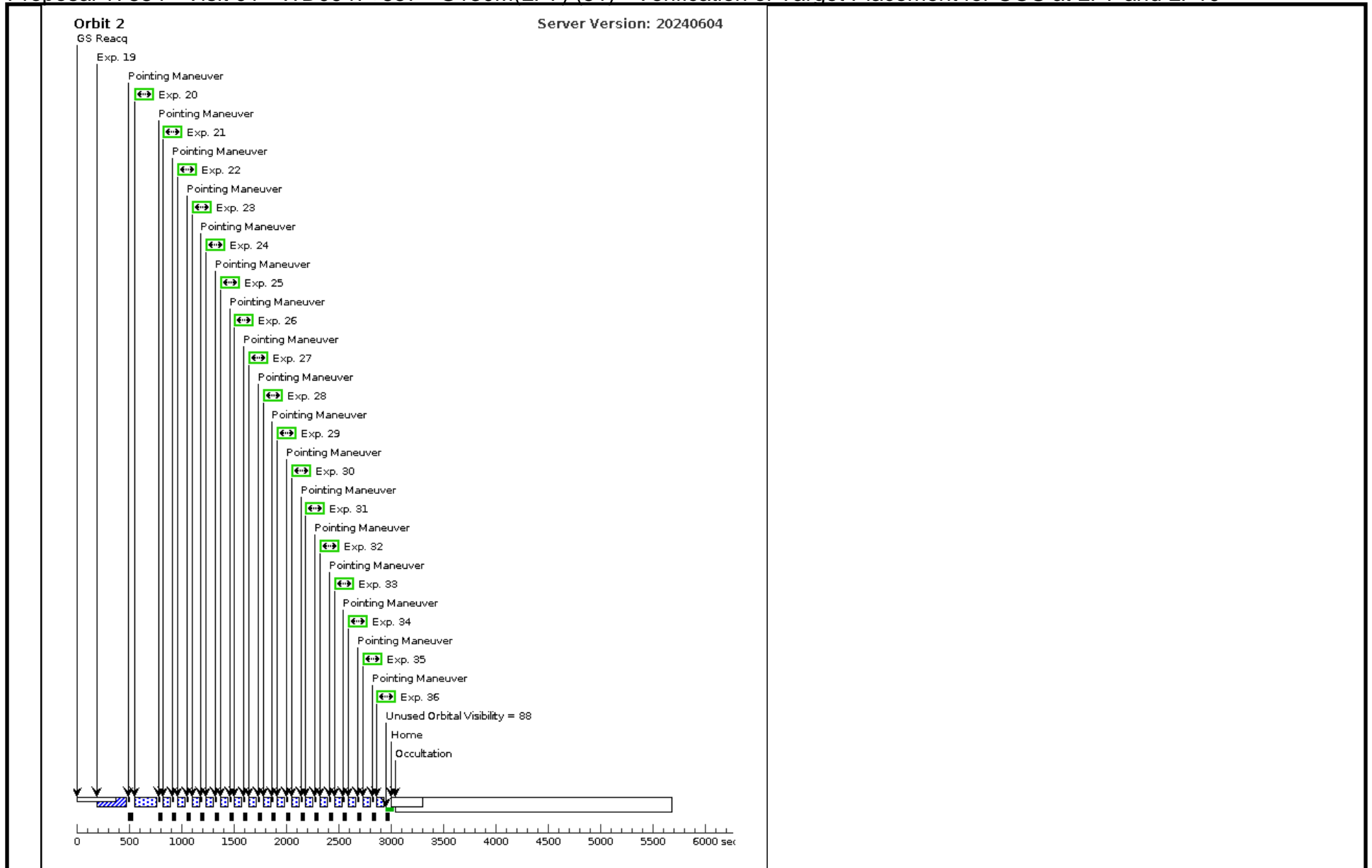
25	G130M/129 1 exposure at (-0.48, 0) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG -0.48,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
26	G130M/129 1 exposure at (-0.29, 0) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG -0.29,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
27	G130M/129 1 exposure at (-0.14, 0) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG -0.14,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
28	G130M/129 1 exposure at nominal aperture position (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
29	G130M/129 1 exposure at (0.14, 0) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0.14,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
30	G130M/129 1 exposure at (0.29, 0) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0.29,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									

Proposal 17884 - Visit 01 - WD0947+857 - G130M(LP7) (51) - Verification of Target Placement for COS at LP7 and LP10

31	G130M/129 1 exposure at (0.48, 0) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0.48,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
32	G130M/129 1 exposure at (0.65, 0) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0.65,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
33	G130M/129 1 exposure at (0.86, 0) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0.86,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
34	G130M/129 1 exposure at (1.1, 0) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 1.1,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
35	G130M/129 1 exposure at (1.30, 0) (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 1.30,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									
36	G130M/129 1 exposure at nominal aperture position (COS.sp.193 8925)	(1) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 6; FP-POS=3; LIFETIME-POS=L P7; FLASH=NO; WAVECAL=NO	POS TARG 0,0	Sequence 19-36 Non-Int in Visit 01 - WD 0947+857 - G130M(LP7) (51)	28 Secs (28 Secs) [==>]	[2]
<i>Comments: S/N of ~5.9 per resel in 28 seconds.</i>									



Proposal 17884 - Visit 01 - WD0947+857 - G130M(LP7) (51) - Verification of Target Placement for COS at LP7 and LP10



Proposal 17884 - Visit 02 - WD1337+705 - G160M(LP10) (52) - Verification of Target Placement for COS at LP7 and LP10

Tue Dec 31 17:00:35 GMT 2024

<b>Visit</b>	<p><b>Proposal 17884, Visit 02 - WD1337+705 - G160M(LP10) (52)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 01-NOV-2024:00:00:00 AND 28-FEB-2025:00:00:00</p> <p><i>Comments: We adopt a pattern of POS TARG offsets in arcsec relative to the target center of:</i>                  -1.30 -1.10 -0.86 -0.65 -0.48 -0.29 -0.14 0.00 +0.14 +0.29 +0.48 +0.65 +0.86 +1.10 +1.30</p> <p><i>Assuming 21 steps/arcsec, this is equivalent to aperture shifts of approximately:</i>                  -27 -23 -18 -14 -10 -6 -3 0 +3 +6 +10 +14 +18 +23 +27</p> <p><i>The +/-1.30 and +/-0.65 arcsec POS TARG offset positions will be used as a check for the ACQ centering algorithm, for both NUMPOS = 3 (with STEP_SIZE = 1.30) and NUMPOS = 5 (with STEP_SIZE = 0.65).</i></p> <p><i>The dispersion and cross-dispersion scans are each in their own Non-Interruptible Sequence in order to ensure that all the steps of each scan are completed back-to-back. This also ensures that, if there is the need for a re-acquisition due to an interrupt, the zeropoint will stay the same.</i></p> <p><i>HOPR repeat of visit 2.</i></p>																																															
	<p>(Visit 02 - WD1337+705 - G160M(LP10) (52)) 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> <p>(Visit 02 - WD1337+705 - G160M(LP10) (52)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE</p> <p>(Visit 02 - WD1337+705 - G160M(LP10) (52)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE</p> <p>(Visit 02 - WD1337+705 - G160M(LP10) (52)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE</p> <p>(Visit 02 - WD1337+705 - G160M(LP10) (52)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE</p> <p>(Visit 02 - WD1337+705 - G160M(LP10) (52)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT</p> <p>(Visit 02 - WD1337+705 - G160M(LP10) (52)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT</p> <p>(Visit 02 - WD1337+705 - G160M(LP10) (52)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT</p> <p>(Visit 02 - WD1337+705 - G160M(LP10) (52)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT</p>																																															
<b>Fixed Targets</b>	<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>WD1337+705</td> <td>RA: 13 38 50.4781 (204.7103254d)</td> <td>Proper Motion RA: -402.093 mas/yr</td> <td>V=12.6+/-0.01</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: LAWD-52</td> <td>Dec: +70 17 7.64 (70.28546d)</td> <td>Proper Motion Dec: -24.608 mas/yr</td> <td>U = 11.807; B = 12.54 +/- 0.01;</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Equinox: J2000</td> <td>Parallax: 0.0377083"</td> <td>R = 13.01 +/- 0.05; G = 12.7910</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 2000</td> <td>+/- 0.0004; I = 12.979; J = 13.24</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Redshift: 0.000087</td> <td>8 +/- 0.024; H = 13.357 +/- 0.02</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>7; K = 13.451 +/- 0.035</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>  <i>Values then updated to those found at SIMBAD from ICRS/GAIA2 (<a href="http://simbad.u-strasbg.fr/simbad/sim-basic?Ident=WD1337%2B705&amp;submit=SIMBAD+search">http://simbad.u-strasbg.fr/simbad/sim-basic?Ident=WD1337%2B705&amp;submit=SIMBAD+search</a>)</i>  <i>Category=STAR</i>  <i>Description=[DA]</i>  <i>Extended=NO</i></p>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	WD1337+705	RA: 13 38 50.4781 (204.7103254d)	Proper Motion RA: -402.093 mas/yr	V=12.6+/-0.01	Reference Frame: ICRS		Alt Name1: LAWD-52	Dec: +70 17 7.64 (70.28546d)	Proper Motion Dec: -24.608 mas/yr	U = 11.807; B = 12.54 +/- 0.01;				Equinox: J2000	Parallax: 0.0377083"	R = 13.01 +/- 0.05; G = 12.7910					Epoch of Position: 2000	+/- 0.0004; I = 12.979; J = 13.24					Redshift: 0.000087	8 +/- 0.024; H = 13.357 +/- 0.02						7; K = 13.451 +/- 0.035	
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Proposal 17884 - Visit 02 - WD1337+705 - G160M(LP10) (52) - Verification of Target Placement for COS at LP7 and 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 - BOA Mirror A (COS.ta.1938992)	(2) WD1337+705	COS/NUV, ACQ/IMAGE, BOA	MIRRORA		Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	3 Secs (3 Secs) [==>]	[1]	
	<i>Comments: S/N = 30 is reached in 2.86 seconds using BOA MIRROR A ACQ/IMAGE</i>									
	2	G160M/1600 exposure at nominal aperture position (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[1]
	<i>Comments: t_exp = 21.0 gives a S/N = 4.55 per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</i>									
	3	G160M/1600 exposure at (0, -1.3) (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,-1.3	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[1]
<i>Comments: t_exp = 21.0 gives a S/N = 4.55 per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</i>										
4	G160M/1600 exposure at (0, -1.1) (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,-1.10	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[1]	
<i>Comments: t_exp = 21.0 gives a S/N = 4.55 per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</i>										
5	G160M/1600 exposure at (0, -0.86) (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,-0.86	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[1]	
<i>Comments: t_exp = 21.0 gives a S/N = 4.55 per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</i>										

Proposal 17884 - Visit 02 - WD1337+705 - G160M(LP10) (52) - Verification of Target Placement for COS at LP7 and LP10

6	G160M/160 0 exposure at (0, -0.65) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,-0.65	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
7	G160M/160 0 exposure at (0, -0.48) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,-0.48	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
8	G160M/160 0 exposure at (0, -0.29) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,-0.29	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
9	G160M/160 0 exposure at (0, -0.14) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,-0.14	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
10	G160M/160 0 exposure at nominal aperture position (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									

Proposal 17884 - Visit 02 - WD1337+705 - G160M(LP10) (52) - Verification of Target Placement for COS at LP7 and LP10

11	G160M/160 0 exposure at (0, 0.14) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0.14	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
12	G160M/160 0 exposure at (0, 0.29) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0.29	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
13	G160M/160 0 exposure at (0, 0.48) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0.48	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
14	G160M/160 0 exposure at (0, 0.65) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0.65	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
15	G160M/160 0 exposure at (0, 0.86) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0.86	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									

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16	G160M/1600 exposure at (0, 1.1) (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,1.1	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
17	G160M/1600 exposure at (0, 1.3) (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,1.3	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
18	G160M/1600 exposure at nominal aperture position (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0	Sequence 1-18 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[1]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
19	ACQ/IMAGE - BOA Mirror A (COS.ta.1938992)	(2) WD1337+705	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			Sequence 19-36 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	3 Secs (3 Secs) [==>]	[2]
<p>Comments: <math>S/N = 30</math> is reached in 2.86 seconds using BOA MIRROR A ACQ/IMAGE</p>									
20	G160M/1600 exposure at nominal aperture position (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0	Sequence 19-36 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
21	G160M/1600 exposure at (-1.3, 0) (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG -1.3,0	Sequence 19-36 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									

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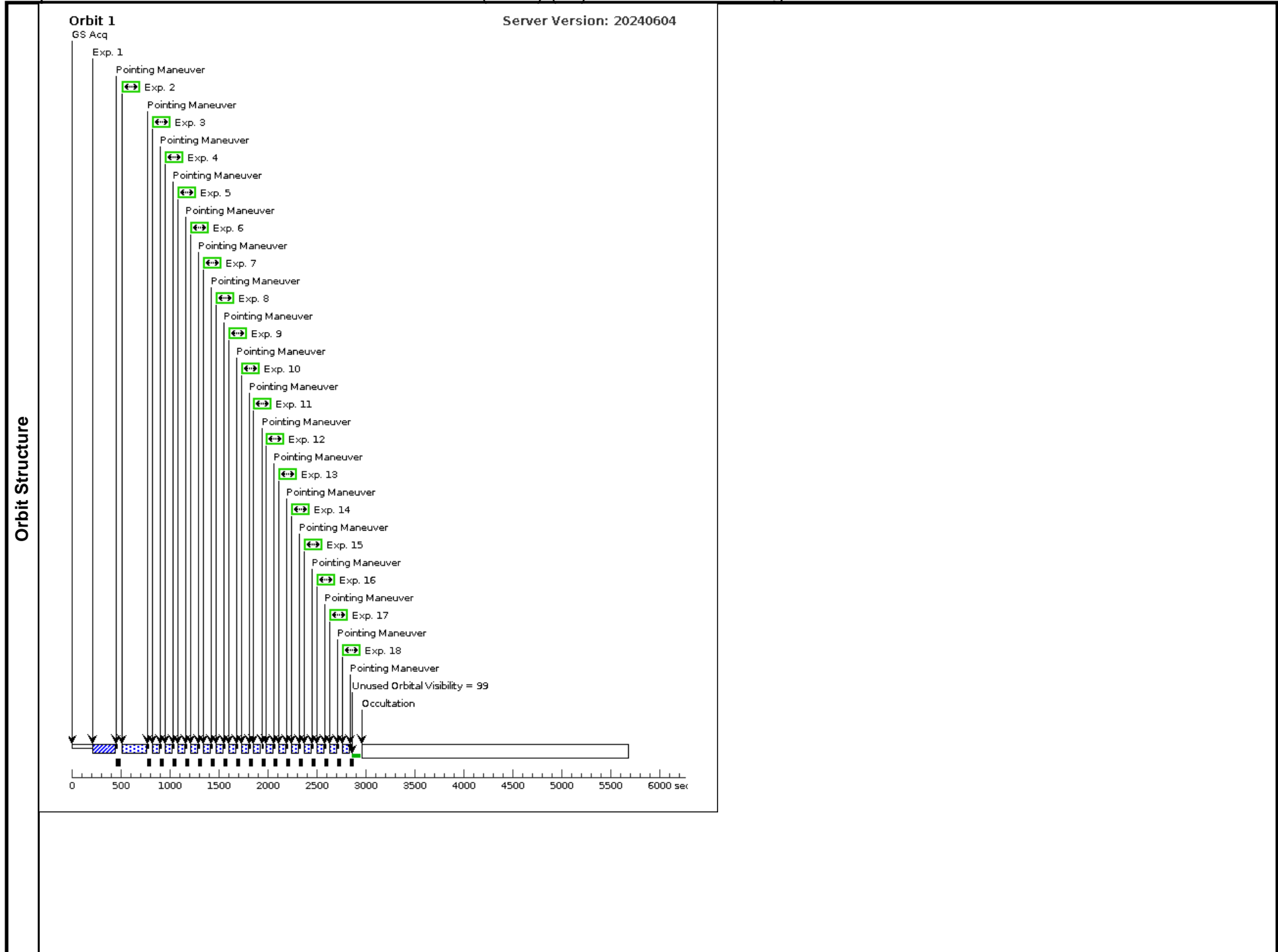
22	G160M/160 0 exposure a t (-1.1, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG -1.10,0	Sequence 19-36 Non -Int in Visit 02 - WD 1337+705 - G160M( LP10) (52)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
23	G160M/160 0 exposure a t (-0.86, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG -0.86,0	Sequence 19-36 Non -Int in Visit 02 - WD 1337+705 - G160M( LP10) (52)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
24	G160M/160 0 exposure a t (-0.65, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG -0.65,0	Sequence 19-36 Non -Int in Visit 02 - WD 1337+705 - G160M( LP10) (52)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
25	G160M/160 0 exposure a t (-0.48, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG -0.48,0	Sequence 19-36 Non -Int in Visit 02 - WD 1337+705 - G160M( LP10) (52)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
26	G160M/160 0 exposure a t (-0.29, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG -0.29,0	Sequence 19-36 Non -Int in Visit 02 - WD 1337+705 - G160M( LP10) (52)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									

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27	G160M/160 0 exposure at (-0.14, 0) (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG -0.14,0	Sequence 19-36 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
28	G160M/160 0 exposure at nominal aperture position (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0	Sequence 19-36 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
29	G160M/160 0 exposure at (0.14, 0) (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0.14,0	Sequence 19-36 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
30	G160M/160 0 exposure at (0.29, 0) (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0.29,0	Sequence 19-36 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
31	G160M/160 0 exposure at (0.48, 0) (COS.sp.1938994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=125; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0.48,0	Sequence 19-36 Non-Int in Visit 02 - WD1337+705 - G160M(LP10) (52)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									

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32	G160M/160 0 exposure a t (0.65, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0.65,0	Sequence 19-36 Non -Int in Visit 02 - WD 1337+705 - G160M( LP10) (52)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
33	G160M/160 0 exposure a t (0.86, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0.86,0	Sequence 19-36 Non -Int in Visit 02 - WD 1337+705 - G160M( LP10) (52)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
34	G160M/160 0 exposure a t (1.1, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 1.1,0	Sequence 19-36 Non -Int in Visit 02 - WD 1337+705 - G160M( LP10) (52)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
35	G160M/160 0 exposure a t (1.3, 0) (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 1.3,0	Sequence 19-36 Non -Int in Visit 02 - WD 1337+705 - G160M( LP10) (52)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									
36	G160M/160 0 exposure a t nominal ap erture positi on (COS.sp.193 8994)	(2) WD1337+705	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 5; FP-POS=3; LIFETIME-POS=L P8; WAVECAL=NO; FLASH=NO	POS TARG 0,0	Sequence 19-36 Non -Int in Visit 02 - WD 1337+705 - G160M( LP10) (52)	21 Secs (21 Secs) [==>]	[2]
<p>Comments: <math>t_{exp} = 21.0</math> gives a <math>S/N = 4.55</math> per resel using G160M/1600 at 1666 A (any longer and we exceed the orbital visibility allowance)</p>									



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