18204 - Cycle 33 COS FUV Change in Spectroscopic Sensitivity Trends

Cycle: 33, Proposal Category: CAL/COS

(Availability Mode: RESTRICTED)

INVESTIGATORS

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VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
1A	(1) WD0308-565	COS/FUV COS/NUV	1	25-Sep-2025 07:00:15.0	yes
1B	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	1	25-Sep-2025 07:00:16.0	yes
1C	(1) WD0308-565	COS/FUV COS/NUV	1	25-Sep-2025 07:00:17.0	yes
1D	(2) WD1057+719 WAVE	COS/FUV COS/NUV	1	25-Sep-2025 07:00:17.0	yes
1E	(2) WD1057+719	COS/FUV COS/NUV	1	25-Sep-2025 07:00:18.0	yes
1F	(2) WD1057+719	COS/FUV COS/NUV	1	25-Sep-2025 07:00:18.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
1G	(2) WD1057+719	COS/FUV COS/NUV	1	25-Sep-2025 07:00:19.0	yes
1H	(2) WD1057+719	COS/FUV COS/NUV	1	25-Sep-2025 07:00:19.0	yes
1I	(2) WD1057+719 WAVE	COS/FUV COS/NUV	1	25-Sep-2025 07:00:20.0	yes
2A	(1) WD0308-565	COS/FUV COS/NUV	1	25-Sep-2025 07:00:21.0	yes
2B	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	1	25-Sep-2025 07:00:21.0	yes
2C	(1) WD0308-565	COS/FUV COS/NUV	1	25-Sep-2025 07:00:22.0	yes
2D	(2) WD1057+719 WAVE	COS/FUV COS/NUV	1	25-Sep-2025 07:00:23.0	yes
2E	(2) WD1057+719	COS/FUV COS/NUV	1	25-Sep-2025 07:00:23.0	yes
2F	(2) WD1057+719	COS/FUV COS/NUV	1	25-Sep-2025 07:00:24.0	yes
2G	(2) WD1057+719	COS/FUV COS/NUV	1	25-Sep-2025 07:00:24.0	yes
2H	(2) WD1057+719	COS/FUV COS/NUV	1	25-Sep-2025 07:00:25.0	yes
2I	(2) WD1057+719 WAVE	COS/FUV COS/NUV	1	25-Sep-2025 07:00:25.0	yes
3A	(1) WD0308-565	COS/FUV COS/NUV	1	25-Sep-2025 07:00:26.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
3B	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	1	25-Sep-2025 07:00:26.0	yes
3C	(1) WD0308-565	COS/FUV COS/NUV	1	25-Sep-2025 07:00:27.0	yes
4A	(1) WD0308-565	COS/FUV COS/NUV	1	25-Sep-2025 07:00:28.0	yes
4B	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	1	25-Sep-2025 07:00:28.0	yes
4C	(1) WD0308-565	COS/FUV COS/NUV	1	25-Sep-2025 07:00:29.0	yes
4D	(2) WD1057+719 WAVE	COS/FUV COS/NUV	1	25-Sep-2025 07:00:30.0	yes
4E	(2) WD1057+719	COS/FUV COS/NUV	1	25-Sep-2025 07:00:30.0	yes
4F	(2) WD1057+719	COS/FUV COS/NUV	1	25-Sep-2025 07:00:30.0	yes

27 Total Orbits Used

ABSTRACT

The FUV gratings are the most used modes on COS. They have experienced changes in sensitivity since the instrument was installed. The trends in the time-dependent spectroscopic sensitivity depend on the grating, segment, and wavelength. Each cycle a calibration proposal to monitor the sensitivity of each FUV grating mode at several cenwave settings is implemented. The monitor runs on an approximate schedule of one set of visits every two months. This program is contingency program that will be triggered in the case that the sensitivity of any grating/mode is found to be rapidly decreasing and therefore requiring a higher cadence of observations.

OBSERVING DESCRIPTION

The description below is from program 18199, the main COS FUV Spectroscopic Sensitivity Monitor for Cycle 33, adjusted to reflect the RGM. This is a contingency program, and the exposure sequence in each visit are identical to those in the main program.

As part of the standard monitoring sequence the standard stars, WD0308-565 and WD1057+719, will be observed every two months (except for June, during which time WD1057+719 is unavailable).

Each sequence consists of 9 individual orbits: 3 1-orbit visits (target WD0308-545) that covers
G130M/1055,
G130M/1291
G130M/1222,
G140L/1280,
G140L/800/FUVA,
G130M/1327/FUVA,
G140L/1105/FUVA,

a 6 1-orbit visits (target WD1057+719) that covers
G130M/1096/FUVB,
G160M/1533,
G160M/1577,
G160M/1623.

These comprise the shortest and longest central wavelengths of the normal modes with each grating. Additionally, G130M/1055, and 1096 (the blue modes) and G130M/1222 are included. Also included is G160M/1577, which used to be the shortest cenwave before the introduction of G160M/1533 in Cycle 26. The G130M 1291 observations will be done at LP7, G130M 1327 observations will be done at LP5, G140L observations will be done at LP3, G130M/1222 observations will be done at LP7, G160M observations will be done at LP10, and G130M/1055 and G130M/1096 will be done at LP7.

In Cycle 29, G160M/1611 was added in order to monitor this highly used but untracked cenwave and to investigate the detector position vs wavelength dependence of the TDS.

In Cycle 30, LP4-LP6 connection exposures for G160M/1533, 1577, 1611 and 1623 were added to check sensitivity changes between LPs, two G160M cenwaves per visit.

In Cycle 31, HST went into reduced gyro mode which makes the original second target GD71 unscheduable for a majority of the year until late August. Because of this, GD71 has been replaced with WD1057+719 and will do all G160M observations with SEGMENT=BOTH. This will increase the observation time roughly by 10% in total, as stated in TIR2018-01.

In Cycle 32, G160M/1611 exposures have been removed due to lack of connection visits between GD71 and WD0308-565 to WD1057+719. The LP4-LP6 connection exposures for G160M were also removed. Due to RGM, WD0308-565 is unscheduable in December and February and so the visits have been exchanged with November and Janurary.

In Cycle 33, LP6-LP10, LP2-LP7, and LP5-LP7 connection exposures for G160M/1533/1577/1623, G130M/1055/1096, and G130M/1291 were added to check sensitivity changes between LPs.

SNR requirements:
- The general requirement is for an SNR of 15 per resel at the wavelength of least sensitivity for the standard modes, and SNR of 15 per resel beyond some minimum wavelength for the G130M/1055 and c1222. The G140L/800 and 1280 and G130M/1096 modes have slightly different criteria, to provide SNR of >~5 per resel at wavelengths below ~1080 Ang.
- The aim is to obtain TDS calibration better than 2% for standard modes and 5% for blue modes.

ETC calculations:
- The ETC calculations use CALSPEC standard model versions wd0308_565_mod_007.fits and wd1057_719_mod_009.fits against which the TDS model slopes are referenced.
- The ETC calculations are specified by requiring SNR of 15 at specific wavelengths, except for the following:
G130M/1096 SNR of 7 per resel at 1030 Ang (only FUVB is used)

G140L/800 SNR of 6 per resel at 1045 Ang (only FUVA is used)
G140L/1280 SNR of 12 per resel at 1090 Ang (lies on FUVB)

- For the G130M/1055 and c1222, the wavelengths specified for SNR of 15 are:
1120 Ang for c1055 (lies on FUVA)
1130 Ang for c1222 (lies on FUVB)

Time constraints:
- Complete monitoring sequence should occur every 2 months starting in November 2025.
- WD1057-565 is unscheduable in June, and therefore that sequence will consist of three 1-orbit visits.

The organization of the WD0308-565 G140L and G130M visits follows a similar scheme used in Cycle 32 except broken up into individual 1-orbit visits. Due to reduced gyro mode and switching out the target GD71 with WD1057+719, the organization of all the WD1057+719 visits follows the scheme suggested in TIR2018-01. All exposure times have been updated to reflect the most recent updates to the FLUXTAB.

In Cycle 29, an additional NUV ACQ/IMAGE was added at the beginning of the second orbit of the 2 orbit WD0308-565 visits to protect against guide star reaquisition failures, which this particular target is prone to.

In Cycle 30, the WD0308-565 visit was split into 2x2 orbits to ease scheduling, avoiding 4 orbit visits.

In Cycle 33, all visits have been converted to 1-orbit visits to mitigate FGS2 failure.

Visit

Proposal 18204, WD0308-MAR (1A) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 01-MAR-2026:00:00:00 AND 29-MAR-2026:00:00:00

Diagnostics

(WD0308-MAR (1A)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS

Comments: Coordinates carried over from Cycle 25 proposal, checked against SIMBAD, which uses the GAIA DR2 catalog.
Proper motions changed to mas/yr, from SIMBAD, also using the GAIA DR2 catalog.
Category=STAR
Description=[DB]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925399)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs) *[==>]*	***[1]***
2	G130M/1055/LP7 (COS.sp.2072417)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=236; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP7			346 Secs (346 Secs) *[==>]*	***[1]***
3	G130M/1291/LP7 (COS.sp.2072419)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=216; FP-POS=3; LIFETIME-POS=LP7; SEGMENT=BOTH			326 Secs (326 Secs) *[==>]*	***[1]***
4	G130M/1222/LP7 (COS.sp.2072422)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=187; FP-POS=3; LIFETIME-POS=LP7; SEGMENT=BOTH			297 Secs (297 Secs) *[==>]*	***[1]***

Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update.

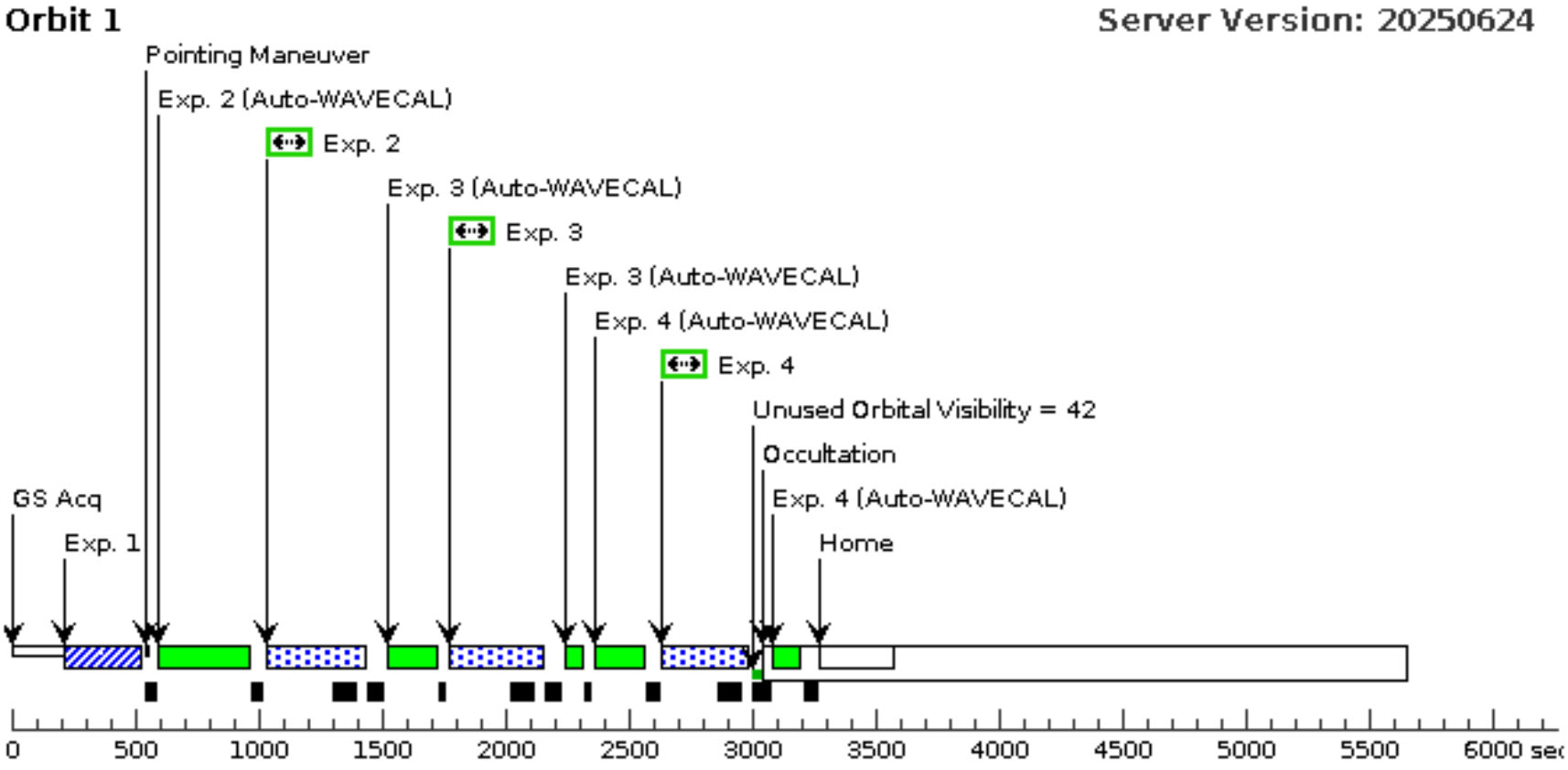
Cycle 32 comment: exposure time updated following blue modes TDS and FLUXTAB update.

ETC buffer time is 1,432 sec
Set buffer time = exptime - 110 sec

Comments: ETC buffer time is 404 sec.
Set buffer time = exptime - 110 sec

Comments: ETC buffer time is 456 sec.
Set buffer time = exptime - 110 sec

Orbit Structure



Visit

Proposal 18204, WD0308-MAR (1B) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

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

Special Requirements: BETWEEN 01-MAR-2026:00:00:00 AND 31-MAR-2026:00:00:00; SEQ 1A,1B WITHIN 7 D

Diagnostics

(WD0308-MAR (1B)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

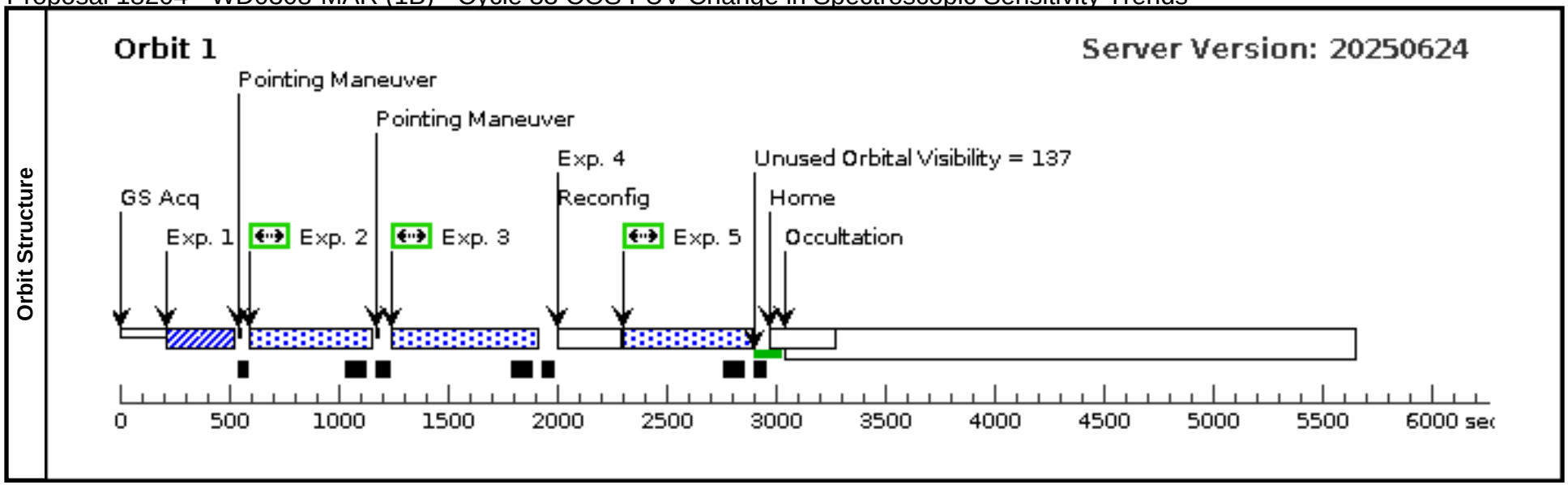
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 149.241 mas/yr	V=14.07+/-0.02	Reference Frame: ICRS
		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr		
		Equinox: J2000	Epoch of Position: 2000		

Comments: Coordinates carried over from Cycle 25 proposal, checked against SIMBAD, which uses the GAIA DR2 catalog.
Proper motions changed to mas/yr, from SIMBAD, also using the GAIA DR2 catalog.
Category=STAR
Description=[DB]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925399)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs) *[==>]*	*[1]*
	Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested. *Cycle 28 comment: we continue to use the same exposure time since differences do not affect orbit request.*								
2	G130M/1055/LP2 (COS.sp.2072417)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=236; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP2			346 Secs (346 Secs) *[==>]*	*[1]*
	Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update. --- *Cycle 32 comment: exposure time updated following blue modes TDS and FLUXTAB update.* *ETC buffer time is 1,432 sec* *Set buffer time = exptime - 110 sec*								
3	G140L/1280/LP3 (COS.sp.2072425)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=305; FP-POS=3; LIFETIME-POS=LP3; SEGMENT=BOTH			415 Secs (415 Secs) *[==>]*	*[1]*
	Comments: ETC buffer time is 680 sec. *Set buffer time = exptime - 110 sec*								
4		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVLOW		1 Secs (1 Secs) *[==>]*	*[1]*
	Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.								
5	G140L/800/FUVA/LP3 (COS.sp.2072426)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=328; FP-POS=3; SEGMENT=A; LIFETIME-POS=LP3			438 Secs (438 Secs) *[==>]*	*[1]*
	Comments: ETC buffer time is 480 sec. *Set buffer time = exptime - 110 sec*								


Orbit Structure
Orbit 1
Server Version: 20250624
Pointing Maneuver
Pointing Maneuver
Exp. 4
Unused Orbital Visibility = 137
GS Acq
Reconfig
Home
Exp. 1
Exp. 2
Exp. 3
Exp. 5
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 18204, WD0308-MAR (1C) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 01-MAR-2026:00:00:00 AND 31-MAR-2026:00:00:00; SEQ 1A,1C WITHIN 7 D

Diagnostics

(WD0308-MAR (1C)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

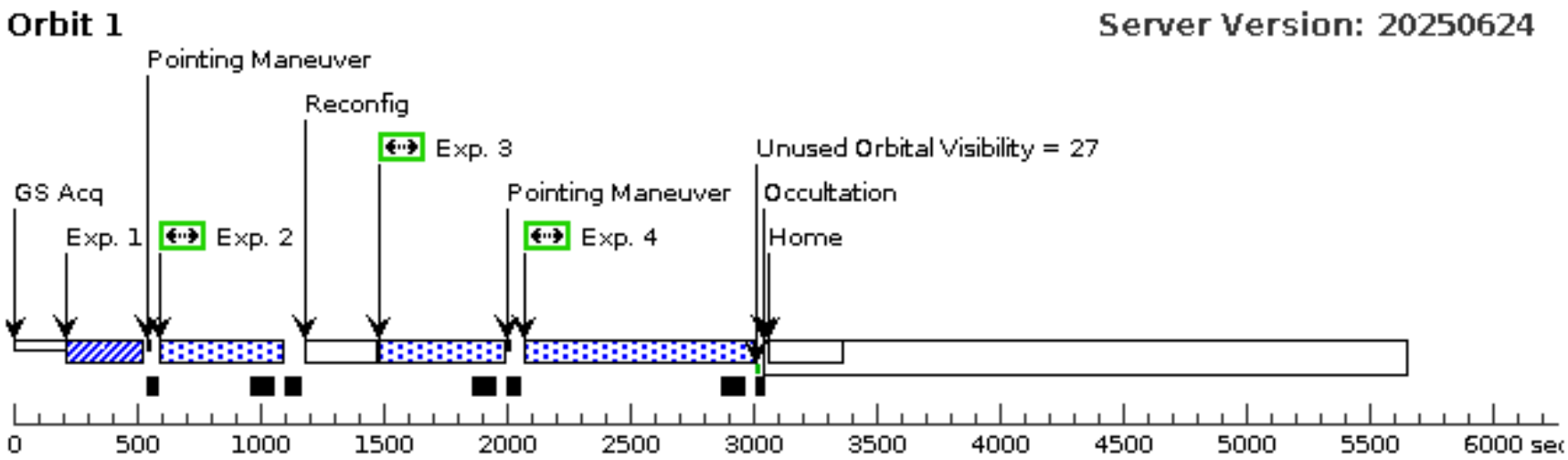
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS

Comments: Coordinates carried over from Cycle 25 proposal, checked against SIMBAD, which uses the GAIA DR2 catalog.
Proper motions changed to mas/yr, from SIMBAD, also using the GAIA DR2 catalog.
Category=STAR
Description=[DB]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925399)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs) *[==>]*	***[1]***
	Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested. *Cycle 28 comment: we continue to use the same exposure time since differences do not affect orbit request.*								
2	G130M/1291/LP5 (COS.sp.2072419)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=216; FP-POS=3; LIFETIME-POS=LP5; SEGMENT=BOTH			326 Secs (326 Secs) *[==>]*	***[1]***
	Comments: ETC buffer time is 404 sec. *Set buffer time = exptime - 110 sec*								
3	G130M/1327/FUVA/LP5 (COS.sp.2072427)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=264; FP-POS=3; LIFETIME-POS=LP5; SEGMENT=A			374 Secs (374 Secs) *[==>]*	***[1]***
	Comments: ETC buffer time is 379 sec. *set buffer time = exptime - 110 sec*								
4	G140L/1105/FUVA/LP3 (COS.sp.2072429)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=573; FP-POS=3; SEGMENT=A; LIFETIME-POS=LP3			683 Secs (683 Secs) *[==>]*	***[1]***
	Comments: ETC buffer time is 508 sec. *Set buffer time = exptime - 110 sec*								

Orbit Structure



Visit

Proposal 18204, WD1057-MAR (1D) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 01-MAR-2026:00:00:00 AND 31-MAR-2026:00:00:00

Diagnostics

(WD1057-MAR (1D)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	WD1057+719	RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000	Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000.0	V=14.68	Reference Frame: ICRS

Comments: HST FASTEX standard
PM, coords from USNOB

GSC2 coords are 11:00:34.25, 71:38:02.97, 1997.19 epoch
Category=STAR
Description=[DA]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925424)	(2) WD1057+719	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				30 Secs (30 Secs) *[==>]*	 ***[1]***

Comments: Exptime for S/N of 55 is 27 seconds.

In cycle 32, we replaced GD71 with WD1057+719 due to HST going into reduced gyro mode. The original exptime for S/N of 55 for GD71 was 90 seconds, so we use 30 seconds to achieve the same S/N as before.

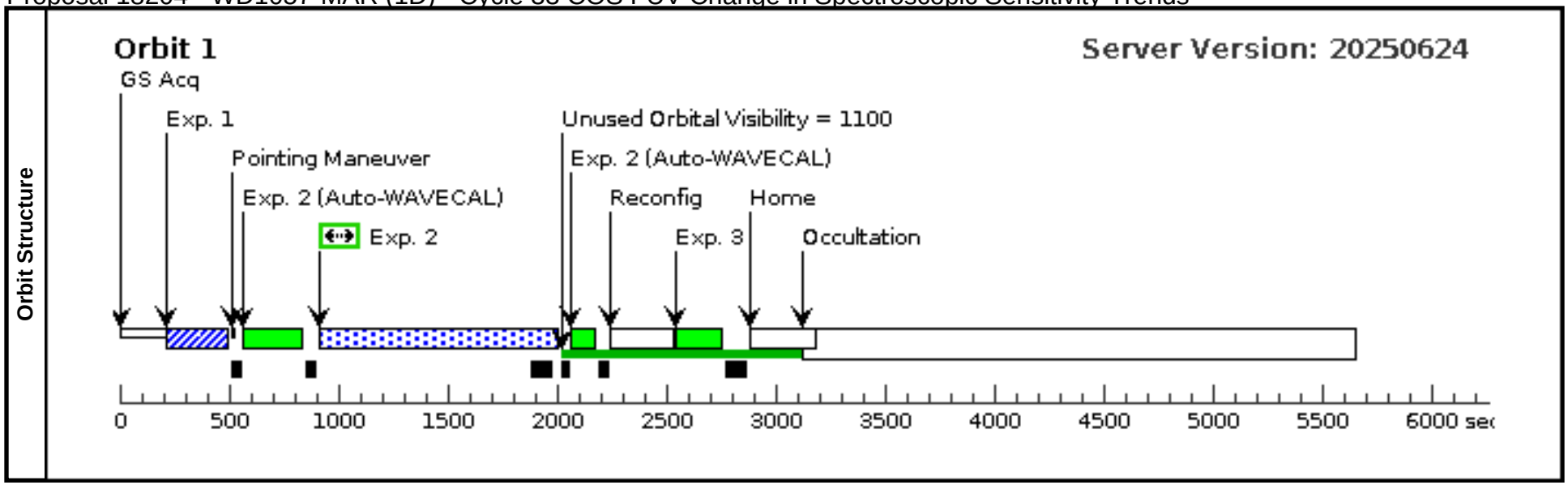
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
2	G130M/1096/FUVB/LP7 (COS.sp.2021980)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=932; FP-POS=3; SEGMENT=B; LIFETIME-POS=LP7			1042 Secs (1042 Secs) *[==>]*	 ***[1]***

Comments: In Cycle 32, Hubble went reduced gyro mode and making GD71 unscheduable. Due to this, GD71 has been replaced with WD1057+719. WD1057+719 is dimmer than GD71 and allows the ability to observe with both segments which will reduce time used in visits. A draw back will be increased exposure time. In the TIR 2018-01, the team advises that an S/N of ~7 at 1030.00 will achieve comparable TDS data quality to the previous GD71 observations.

FUVB only (all ETC warnings come from FUVA).
The FUVB count rate is 231 cts/sec, so the buffer time is 10,202 sec.
Set buffer-time = exptime - 110 sec

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
3	G130M/1096/FUVA WAVECAL/LP7	WAVE	COS/FUV, TIME-TAG, WCA	G130M 1096 A	FP-POS=3; SEGMENT=A; FLASH=NO; LIFETIME-POS=LP7			160 Secs (160 Secs) *[==>]*	 ***[1]***

Comments: Cycle 28: the exposure time has been updated to 160 seconds. This was determined after characterizing the decrease by about 12 percent in the summed count-rate with time over the period between December 2017 and April 2020.


Orbit Structure
Orbit 1
Server Version: 20250624
GS Acq
Exp. 1
Pointing Maneuver
Exp. 2 (Auto-WAVECAL)
Exp. 2
Unused Orbital Visibility = 1100
Exp. 2 (Auto-WAVECAL)
Reconfig
Home
Exp. 3
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 18204, WD1057-MAR (1E) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 01-MAR-2026:00:00:00 AND 31-MAR-2026:00:00:00

Diagnostics

(WD1057-MAR (1E)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	WD1057+719	RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000	Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000.0	V=14.68	Reference Frame: ICRS

Comments: HST FASTEX standard
PM, coords from USNOB

GSC2 coords are 11:00:34.25, 71:38:02.97, 1997.19 epoch
Category=STAR
Description=[DA]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925424)	(2) WD1057+719	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				30 Secs (30 Secs) *[==>]*	*[1]*

Comments: Exptime for S/N of 55 is 27 seconds.

In cycle 32, we replaced GD71 with WD1057+719 due to HST going into reduced gyro mode. The original exptime for S/N of 55 for GD71 was 90 seconds, so we use 30 seconds to achieve the same S/N as before.

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
2	G160M/1623/LP10 (COS.sp.2021981)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=357; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP10			1290 Secs (1290 Secs) *[==>]*	*[1]*

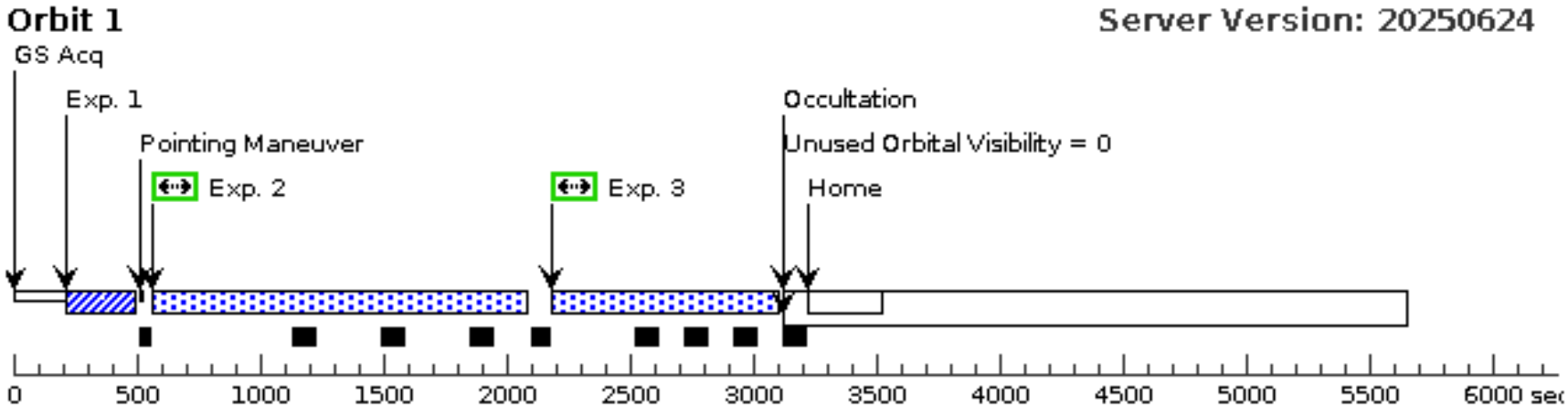
Comments: ETC Buffer fill time 536 seconds
*Set buffer-time = 536 * (2/3)*

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
3	G160M/1533/LP10 (COS.sp.2021985)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=200; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP10			769 Secs (769 Secs) *[==>]*	*[1]*

Comments: In Cycle 32, Hubble went reduced gyro mode and making GD71 unscheduable. Due to this, GD71 has been replaced with WD1057+719. WD1057+719 is dimmer than GD71 and allows the ability to obse rve with both segments which will reduce time used in visits.

ETC buffer-time = 300
Set buffer-time = 300(2/3)*

Orbit Structure



Visit

Proposal 18204, WD1057-MAR (1F) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 01-MAR-2026:00:00:00 AND 31-MAR-2026:00:00:00; SEQ 1E,1F WITHIN 7 D

Diagnostics

(WD1057-MAR (1F)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	WD1057+719	RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000	Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000.0	V=14.68	Reference Frame: ICRS

Comments: HST FASTEX standard
PM, coords from USNOB

GSC2 coords are 11:00:34.25, 71:38:02.97, 1997.19 epoch
Category=STAR
Description=[DA]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925424)	(2) WD1057+719	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				30 Secs (30 Secs) *[==>]*	*[1]*

Comments: Exptime for S/N of 55 is 27 seconds.

In cycle 32, we replaced GD71 with WD1057+719 due to HST going into reduced gyro mode. The original exptime for S/N of 55 for GD71 was 90 seconds, so we use 30 seconds to achieve the same S/N as before.

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
2	G160M/1577/LP10 (COS.sp.2021984)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=262; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP10			1015 Secs (1015 Secs) *[==>]*	*[1]*

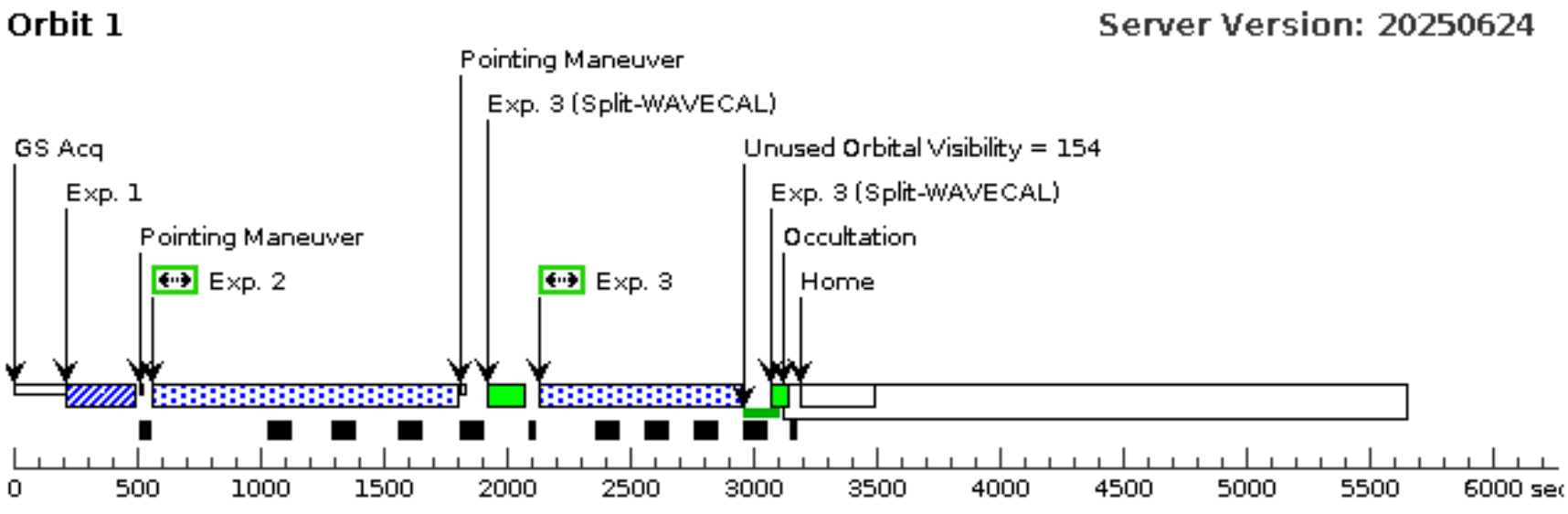
Comments: ETC Buffer fill time 394 seconds
*Set buffer-time = 394 * (2/3)*

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
3	G160M/1533/LP6 (COS.sp.2021985)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=200; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP6			771 Secs (771 Secs) *[==>]*	*[1]*

Comments: In Cycle 32, Hubble went reduced gyro mode and making GD71 unscheduable. Due to this, GD71 has been replaced with WD1057+719. WD1057+719 is dimmer than GD71 and allows the ability to obse rve with both segments which will reduce time used in visits.

ETC buffer-time = 300
Set buffer-time = 300(2/3)*

Orbit Structure



Visit

Proposal 18204, WD1057-MAR (1G) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 01-MAR-2026:00:00:00 AND 31-MAR-2026:00:00:00; SEQ 1E,1G WITHIN 7 D

Diagnostics

(WD1057-MAR (1G)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	WD1057+719	RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000	Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000.0	V=14.68	Reference Frame: ICRS

Comments: HST FASTEX standard
PM, coords from USNOB

GSC2 coords are 11:00:34.25, 71:38:02.97, 1997.19 epoch
Category=STAR
Description=[DA]
Extended=NO

Exposures

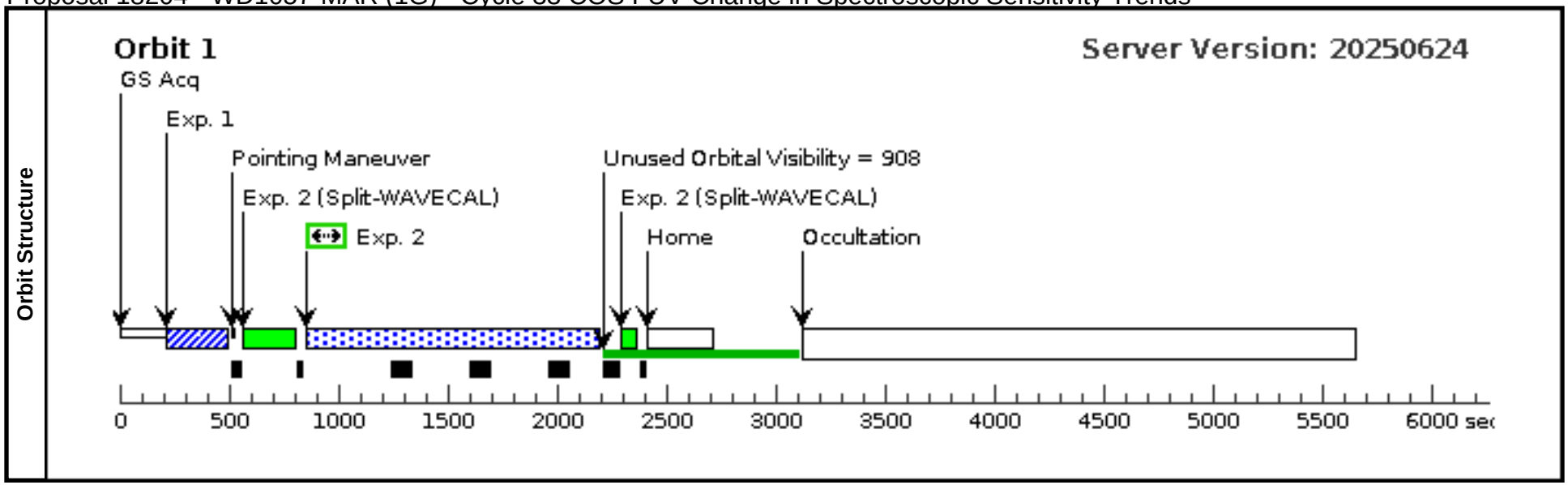
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925424)	(2) WD1057+719	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				30 Secs (30 Secs) *[==>]*	*[1]*

Comments: Exptime for S/N of 55 is 27 seconds.

In cycle 32, we replaced GD71 with WD1057+719 due to HST going into reduced gyro mode. The original exptime for S/N of 55 for GD71 was 90 seconds, so we use 30 seconds to achieve the same S/N as before.

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
2	G160M/1623/LP6 (COS.sp.2021981)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=357; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP6			1292 Secs (1292 Secs) *[==>]*	*[1]*

Comments: ETC Buffer fill time 536 seconds
*Set buffer-time = 536 * (2/3)*


Orbit Structure
Orbit 1
Server Version: 20250624
GS Acq
Exp. 1
Pointing Maneuver
Exp. 2 (Split-WAVECAL)
Exp. 2
Unused Orbital Visibility = 908
Exp. 2 (Split-WAVECAL)
Home
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 18204, WD1057-MAR (1H) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 01-MAR-2026:00:00:00 AND 31-MAR-2026:00:00:00; SEQ 1F,1H WITHIN 7 D

Diagnostics

(WD1057-MAR (1H)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	WD1057+719	RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000	Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000.0	V=14.68	Reference Frame: ICRS

Comments: HST FASTEX standard
PM, coords from USNOB

GSC2 coords are 11:00:34.25, 71:38:02.97, 1997.19 epoch
Category=STAR
Description=[DA]
Extended=NO

Exposures

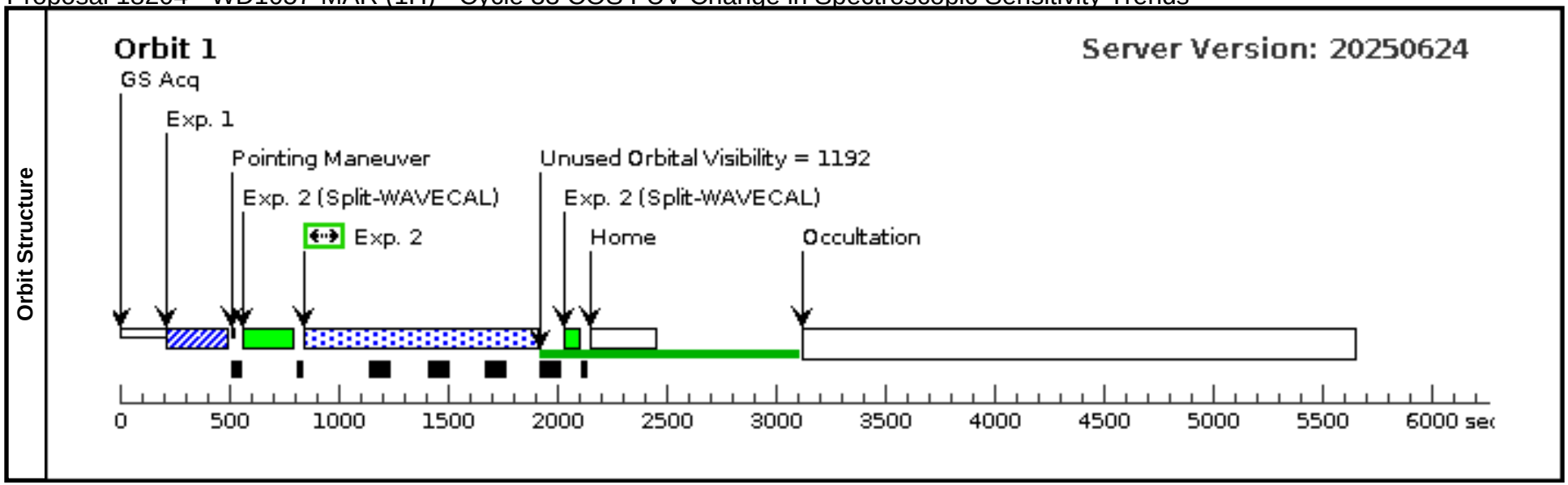
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925424)	(2) WD1057+719	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				30 Secs (30 Secs) *[==>]*	*[1]*

Comments: Exptime for S/N of 55 is 27 seconds.

In cycle 32, we replaced GD71 with WD1057+719 due to HST going into reduced gyro mode. The original exptime for S/N of 55 for GD71 was 90 seconds, so we use 30 seconds to achieve the same S/N as before.

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
2	G160M/1577/LP6 (COS.sp.2021984)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=262; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP6			1015 Secs (1015 Secs) *[==>]*	*[1]*

Comments: ETC Buffer fill time 394 seconds
*Set buffer-time = 394 * (2/3)*


Orbit Structure
Orbit 1
Server Version: 20250624
GS Acq
Exp. 1
Pointing Maneuver
Exp. 2 (Split-WAVECAL)
Exp. 2
Unused Orbital Visibility = 1192
Exp. 2 (Split-WAVECAL)
Home
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 18204, WD1057-MAR (1I) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 01-MAR-2026:00:00:00 AND 31-MAR-2026:00:00:00; SEQ 1D,1I WITHIN 7 D

Diagnostics

(WD1057-MAR (1I)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	WD1057+719	RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000	Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000.0	V=14.68	Reference Frame: ICRS

Comments: HST FASTEX standard
PM, coords from USNOB

GSC2 coords are 11:00:34.25, 71:38:02.97, 1997.19 epoch
Category=STAR
Description=[DA]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925424)	(2) WD1057+719	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				30 Secs (30 Secs) *[==>]*	*[1]*

Comments: Exptime for S/N of 55 is 27 seconds.

In cycle 32, we replaced GD71 with WD1057+719 due to HST going into reduced gyro mode. The original exptime for S/N of 55 for GD71 was 90 seconds, so we use 30 seconds to achieve the same S/N as before.

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
2	G130M/1096/FUVB/LP2 (COS.sp.2021980)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=932; FP-POS=3; SEGMENT=B; LIFETIME-POS=LP2			1042 Secs (1042 Secs) *[==>]*	*[1]*

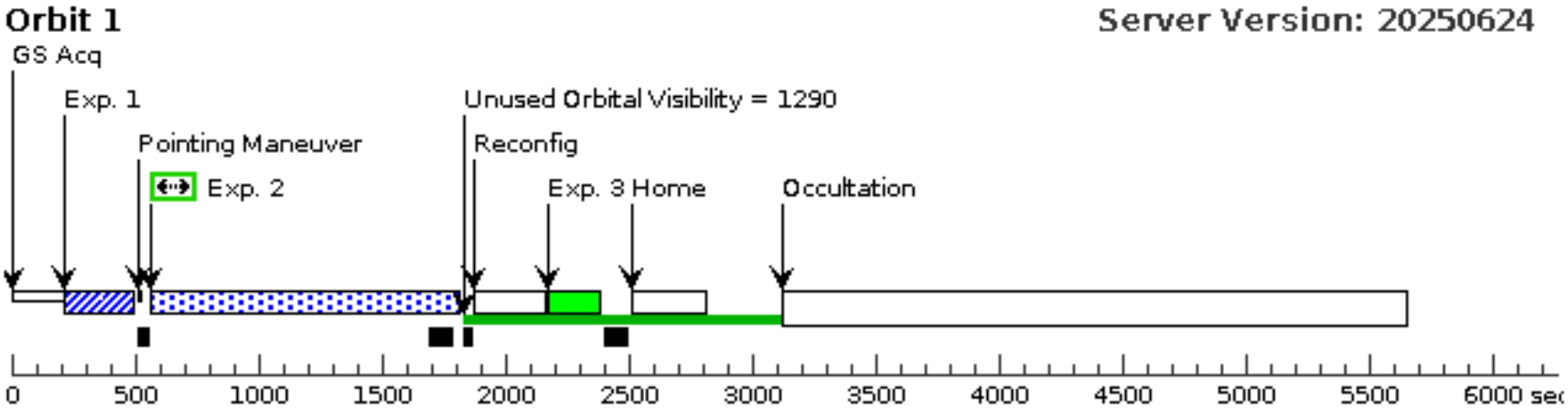
Comments: In Cycle 32, Hubble went reduced gyro mode and making GD71 unscheduable. Due to this, GD71 has been replaced with WD1057+719. WD1057+719 is dimmer than GD71 and allows the ability to observe with both segments which will reduce time used in visits. A draw back will be increased exposure time. In the TIR 2018-01, the team advises that an S/N of ~7 at 1030.00 will achieve comparable TDS data quality to the previous GD71 observations.

FUVB only (all ETC warnings come from FUVA).
The FUVB count rate is 231 cts/sec, so the buffer time is 10,202 sec.
Set buffer-time = exptime - 110 sec

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
3	G130M/1096/FUVA WAVECAL/LP2	WAVE	COS/FUV, TIME-TAG, WCA	G130M 1096 A	FP-POS=3; SEGMENT=A; FLASH=NO; LIFETIME-POS=LP2			160 Secs (160 Secs) *[==>]*	*[1]*

Comments: Cycle 28: the exposure time has been updated to 160 seconds. This was determined after characterizing the decrease by about 12 percent in the summed count-rate with time over the period between December 2017 and April 2020.

Orbit Structure



Visit

Proposal 18204, WD0308-MAY (2A) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 03-MAY-2026:00:00:00 AND 31-MAY-2026:00:00:00

Diagnostics

(WD0308-MAY (2A)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS

Comments: Coordinates carried over from Cycle 25 proposal, checked against SIMBAD, which uses the GAIA DR2 catalog.
Proper motions changed to mas/yr, from SIMBAD, also using the GAIA DR2 catalog.
Category=STAR
Description=[DB]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925399)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs) *[==>]*	 ***[1]***
2	G130M/1055/LP7 (COS.sp.2072417)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=236; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP7			346 Secs (346 Secs) *[==>]*	 ***[1]***
3	G130M/1291/LP7 (COS.sp.2072419)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=216; FP-POS=3; LIFETIME-POS=LP7; SEGMENT=BOTH			326 Secs (326 Secs) *[==>]*	 ***[1]***
4	G130M/1222/LP7 (COS.sp.2072422)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=187; FP-POS=3; LIFETIME-POS=LP7; SEGMENT=BOTH			297 Secs (297 Secs) *[==>]*	 ***[1]***

Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update.

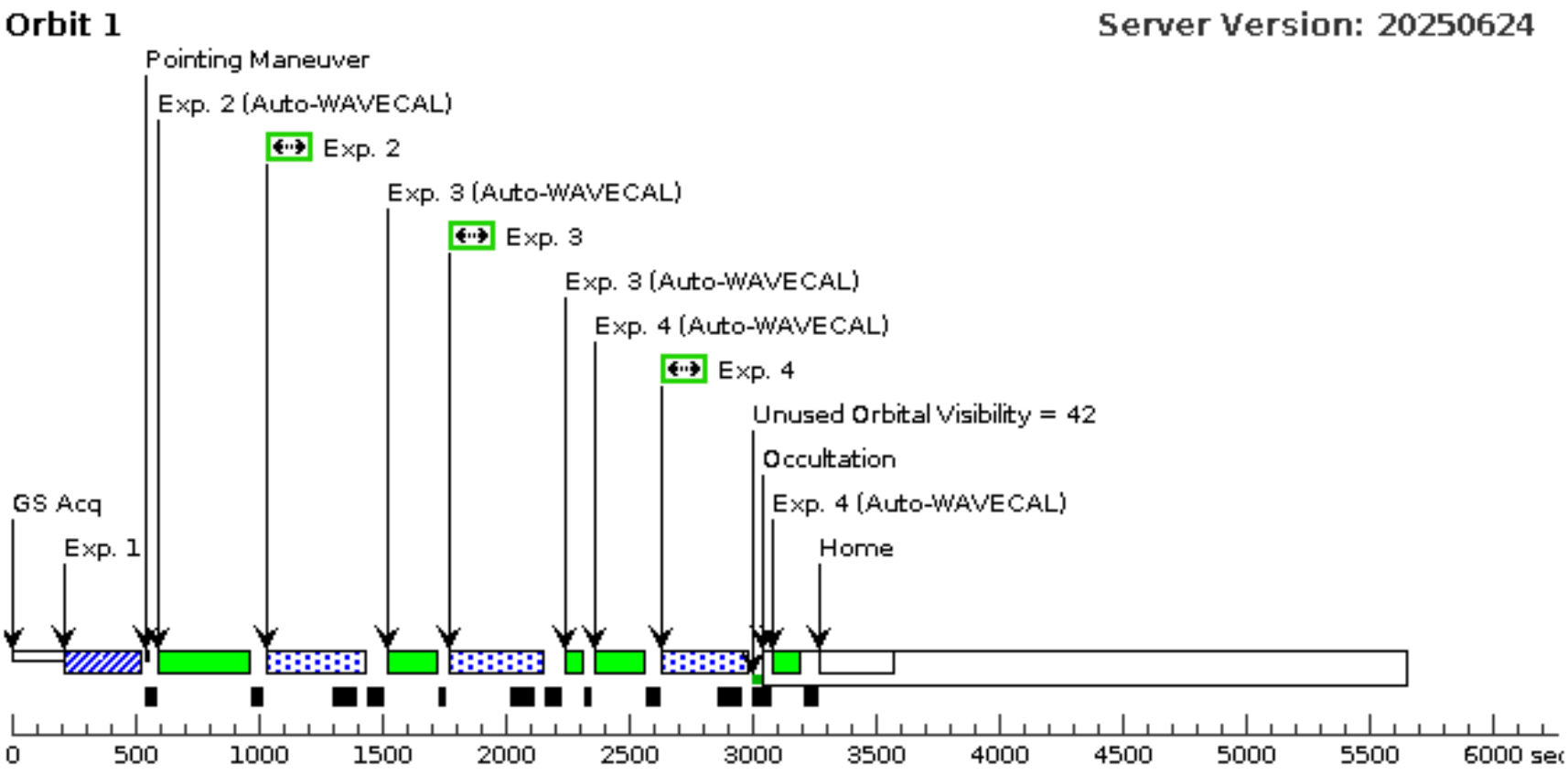
Cycle 32 comment: exposure time updated following blue modes TDS and FLUXTAB update.

ETC buffer time is 1,432 sec
Set buffer time = exptime - 110 sec

Comments: ETC buffer time is 404 sec.
Set buffer time = exptime - 110 sec

Comments: ETC buffer time is 456 sec.
Set buffer time = exptime - 110 sec

Orbit Structure



Visit

Proposal 18204, WD0308-MAY (2B) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

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

Special Requirements: BETWEEN 03-MAY-2026:00:00:00 AND 31-MAY-2026:00:00:00; SEQ 2A,2B WITHIN 7 D

Diagnostics

(WD0308-MAY (2B)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

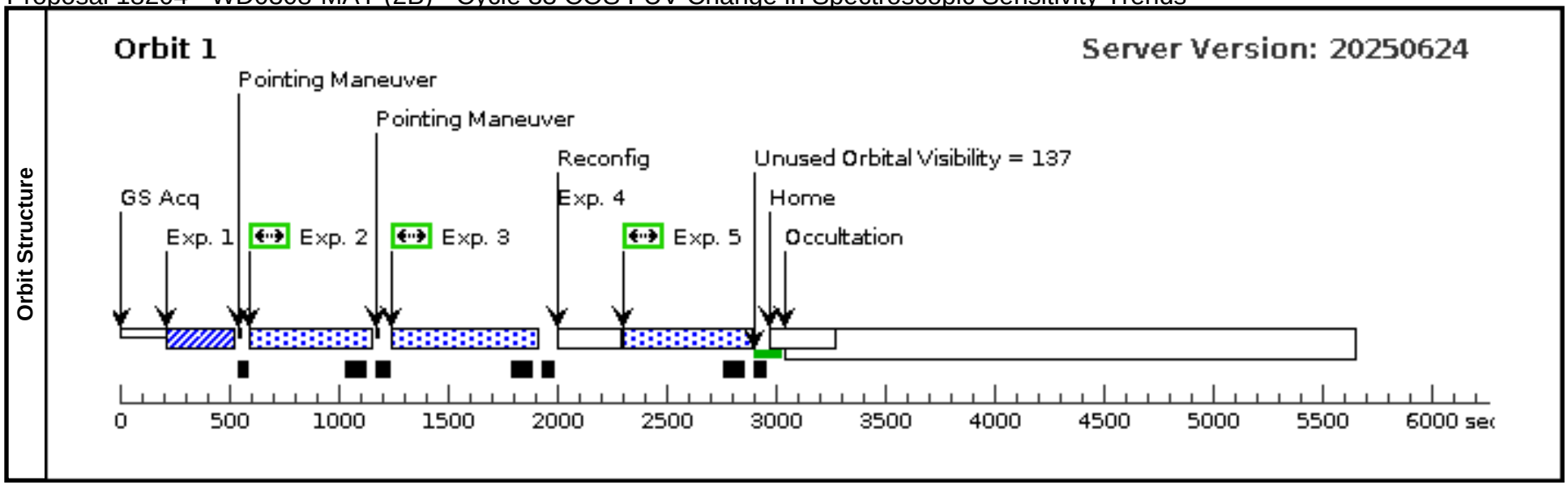
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 149.241 mas/yr	V=14.07+/-0.02	Reference Frame: ICRS
		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr		
		Equinox: J2000	Epoch of Position: 2000		

Comments: Coordinates carried over from Cycle 25 proposal, checked against SIMBAD, which uses the GAIA DR2 catalog.
Proper motions changed to mas/yr, from SIMBAD, also using the GAIA DR2 catalog.
Category=STAR
Description=[DB]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925399)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs) *[==>]*	***[1]***
Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested. *Cycle 28 comment: we continue to use the same exposure time since differences do not affect orbit request.*									
2	G130M/1055/LP2 (COS.sp.2072417)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=236; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP2			346 Secs (346 Secs) *[==>]*	***[1]***
Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update. --- *Cycle 32 comment: exposure time updated following blue modes TDS and FLUXTAB update.* *ETC buffer time is 1,432 sec* *Set buffer time = exptime - 110 sec*									
3	G140L/1280/LP3 (COS.sp.2072425)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=305; FP-POS=3; LIFETIME-POS=LP3; SEGMENT=BOTH			415 Secs (415 Secs) *[==>]*	***[1]***
Comments: ETC buffer time is 680 sec. *Set buffer time = exptime - 110 sec*									
4		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVLOW		1 Secs (1 Secs) *[==>]*	***[1]***
Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.									
5	G140L/800/FUVA/LP3 (COS.sp.2072426)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=328; FP-POS=3; SEGMENT=A; LIFETIME-POS=LP3			438 Secs (438 Secs) *[==>]*	***[1]***
Comments: ETC buffer time is 480 sec. *Set buffer time = exptime - 110 sec*									


Orbit Structure
Orbit 1
Server Version: 20250624
Pointing Maneuver
Pointing Maneuver
Reconfig
Unused Orbital Visibility = 137
GS Acq
Exp. 4
Home
Exp. 1
Exp. 2
Exp. 3
Exp. 5
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 18204, WD0308-MAY (2C) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 03-MAY-2026:00:00:00 AND 31-MAY-2026:00:00:00; SEQ 2A,2C WITHIN 7 D

Diagnostics

(WD0308-MAY (2C)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

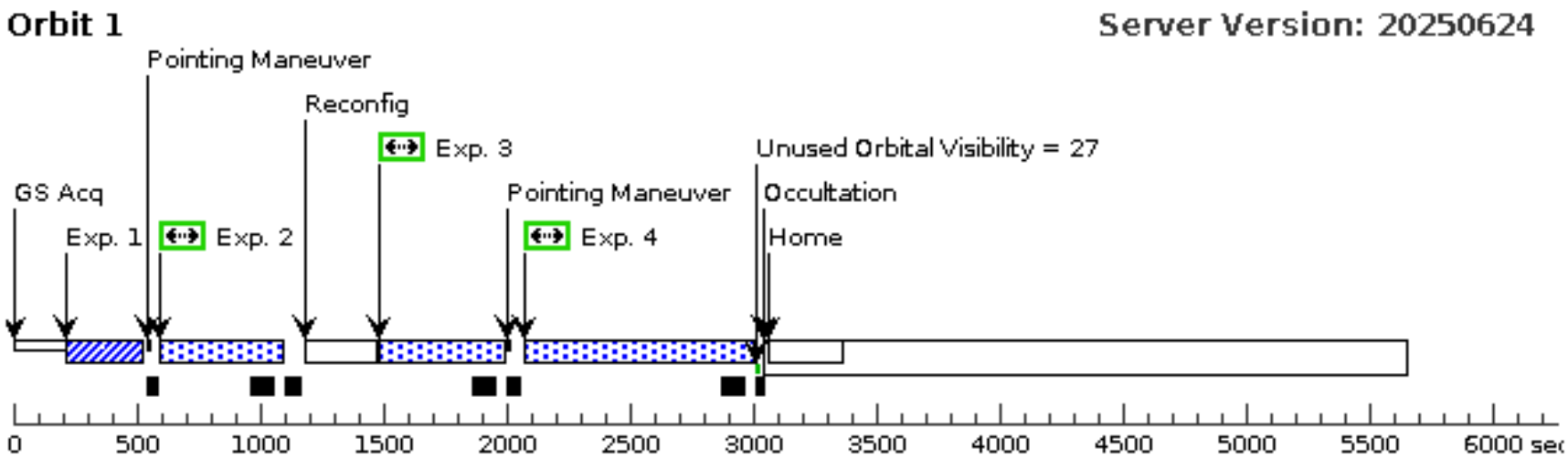
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS

Comments: Coordinates carried over from Cycle 25 proposal, checked against SIMBAD, which uses the GAIA DR2 catalog.
Proper motions changed to mas/yr, from SIMBAD, also using the GAIA DR2 catalog.
Category=STAR
Description=[DB]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925399)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs) *[==>]*	***[1]***
	Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested. *Cycle 28 comment: we continue to use the same exposure time since differences do not affect orbit request.*								
2	G130M/1291/LP5 (COS.sp.2072419)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=216; FP-POS=3; LIFETIME-POS=LP5; SEGMENT=BOTH			326 Secs (326 Secs) *[==>]*	***[1]***
	Comments: ETC buffer time is 404 sec. *Set buffer time = exptime - 110 sec*								
3	G130M/1327/FUVA/LP5 (COS.sp.2072427)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=264; FP-POS=3; LIFETIME-POS=LP5; SEGMENT=A			374 Secs (374 Secs) *[==>]*	***[1]***
	Comments: ETC buffer time is 379 sec. *set buffer time = exptime - 110 sec*								
4	G140L/1105/FUVA/LP3 (COS.sp.2072429)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=573; FP-POS=3; SEGMENT=A; LIFETIME-POS=LP3			683 Secs (683 Secs) *[==>]*	***[1]***
	Comments: ETC buffer time is 508 sec. *Set buffer time = exptime - 110 sec*								

Orbit Structure



Visit

Proposal 18204, WD1057-MAY (2D) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 03-MAY-2026:00:00:00 AND 31-MAY-2026:00:00:00

Diagnostics

(WD1057-MAY (2D)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	WD1057+719	RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000	Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000.0	V=14.68	Reference Frame: ICRS

Comments: HST FASTEX standard
PM, coords from USNOB

GSC2 coords are 11:00:34.25, 71:38:02.97, 1997.19 epoch
Category=STAR
Description=[DA]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925424)	(2) WD1057+719	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				30 Secs (30 Secs) *[==>]*	*[1]*

Comments: Exptime for S/N of 55 is 27 seconds.

In cycle 32, we replaced GD71 with WD1057+719 due to HST going into reduced gyro mode. The original exptime for S/N of 55 for GD71 was 90 seconds, so we use 30 seconds to achieve the same S/N as before.

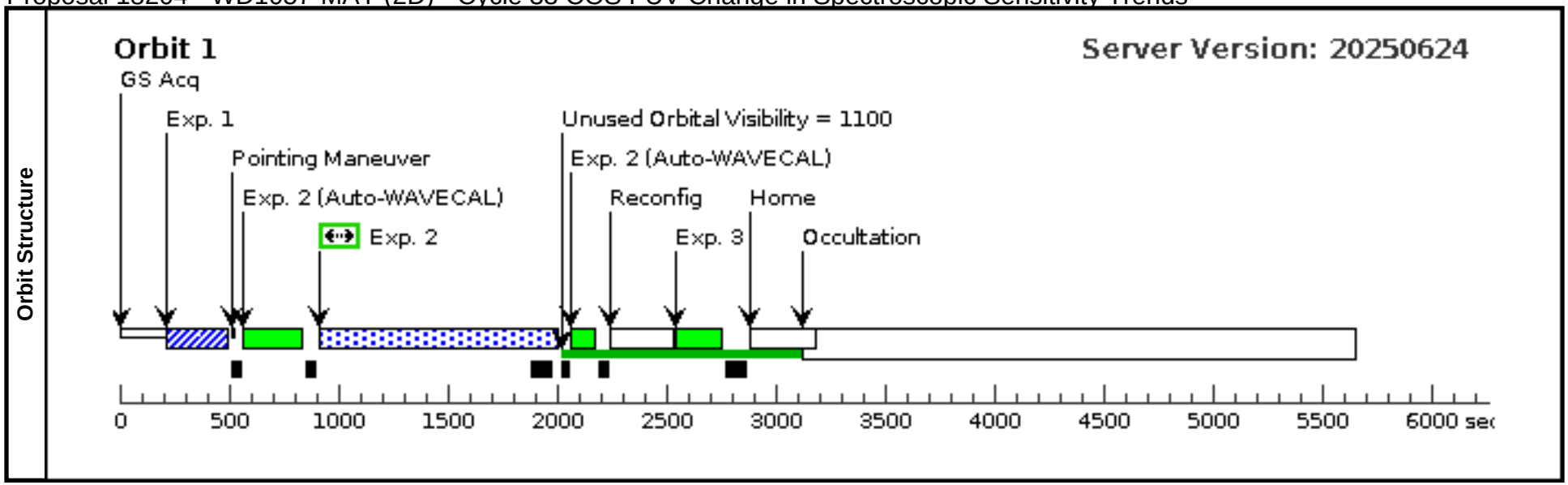
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
2	G130M/1096/FUVB/LP7 (COS.sp.2021980)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=932; FP-POS=3; SEGMENT=B; LIFETIME-POS=LP7			1042 Secs (1042 Secs) *[==>]*	*[1]*

Comments: In Cycle 32, Hubble went reduced gyro mode and making GD71 unscheduable. Due to this, GD71 has been replaced with WD1057+719. WD1057+719 is dimmer than GD71 and allows the ability to obse rve with both segments which will reduce time used in visits. A draw back will be increased exposure time. In the TIR 2018-01, the team advises that an S/N of ~7 at 1030.00 will achieve comparable TDS data quality t o the previous GD71 observations.

FUVB only (all ETC warnings come from FUVA).
The FUVB count rate is 231 cts/sec, so the buffer time is 10,202 sec.
Set buffer-time = exptime - 110 sec

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
3	G130M/1096/FUVA WAVECAL/LP7	WAVE	COS/FUV, TIME-TAG, WCA	G130M 1096 A	FP-POS=3; SEGMENT=A; FLASH=NO; LIFETIME-POS=LP7			160 Secs (160 Secs) *[==>]*	*[1]*

Comments: Cycle 28: the exposure time has been updated to 160 seconds. This was determined after characterizing the decrease by about 12 percent in the summed count-rate with time over the period between Dece mber 2017 and April 2020.


Orbit Structure
Orbit 1
Server Version: 20250624
GS Acq
Exp. 1
Pointing Maneuver
Exp. 2 (Auto-WAVECAL)
Exp. 2
Unused Orbital Visibility = 1100
Exp. 2 (Auto-WAVECAL)
Reconfig
Home
Exp. 3
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 18204, WD1057-MAY (2E) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 03-MAY-2026:00:00:00 AND 31-MAY-2026:00:00:00

Diagnostics

(WD1057-MAY (2E)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	WD1057+719	RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000	Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000.0	V=14.68	Reference Frame: ICRS

Comments: HST FASTEX standard
PM, coords from USNOB

GSC2 coords are 11:00:34.25, 71:38:02.97, 1997.19 epoch
Category=STAR
Description=[DA]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925424)	(2) WD1057+719	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				30 Secs (30 Secs) *[==>]*	 ***[1]***

Comments: Exptime for S/N of 55 is 27 seconds.

In cycle 32, we replaced GD71 with WD1057+719 due to HST going into reduced gyro mode. The original exptime for S/N of 55 for GD71 was 90 seconds, so we use 30 seconds to achieve the same S/N as before.

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
2	G160M/1623/LP10 (COS.sp.2021981)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=357; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP10			1290 Secs (1290 Secs) *[==>]*	 ***[1]***

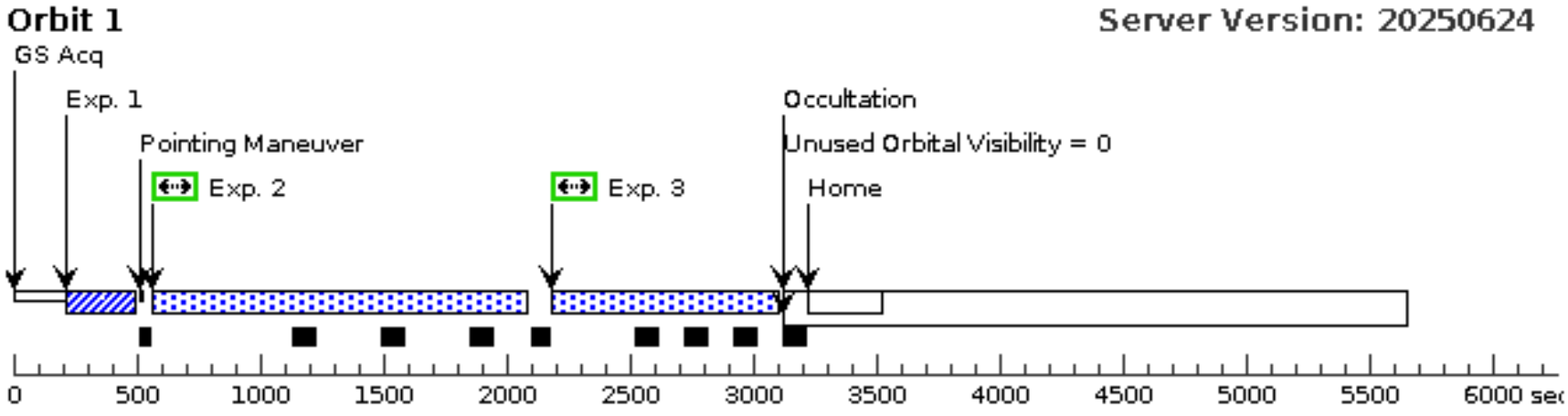
Comments: ETC Buffer fill time 536 seconds
*Set buffer-time = 536 * (2/3)*

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
3	G160M/1533/LP10 (COS.sp.2021985)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=200; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP10			769 Secs (769 Secs) *[==>]*	 ***[1]***

Comments: In Cycle 32, Hubble went reduced gyro mode and making GD71 unscheduable. Due to this, GD71 has been replaced with WD1057+719. WD1057+719 is dimmer than GD71 and allows the ability to obse rve with both segments which will reduce time used in visits.

ETC buffer-time = 300
Set buffer-time = 300(2/3)*

Orbit Structure



Visit

Proposal 18204, WD1057-MAY (2F) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 03-MAY-2026:00:00:00 AND 31-MAY-2026:00:00:00; SEQ 2E,2F WITHIN 7 D

Diagnostics

(WD1057-MAY (2F)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	WD1057+719	RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000	Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000.0	V=14.68	Reference Frame: ICRS

Comments: HST FASTEX standard
PM, coords from USNOB

GSC2 coords are 11:00:34.25, 71:38:02.97, 1997.19 epoch
Category=STAR
Description=[DA]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925424)	(2) WD1057+719	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				30 Secs (30 Secs) *[==>]*	*[1]*

Comments: Exptime for S/N of 55 is 27 seconds.

In cycle 32, we replaced GD71 with WD1057+719 due to HST going into reduced gyro mode. The original exptime for S/N of 55 for GD71 was 90 seconds, so we use 30 seconds to achieve the same S/N as before.

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
2	G160M/1577/LP10 (COS.sp.2021984)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=262; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP10			1015 Secs (1015 Secs) *[==>]*	*[1]*

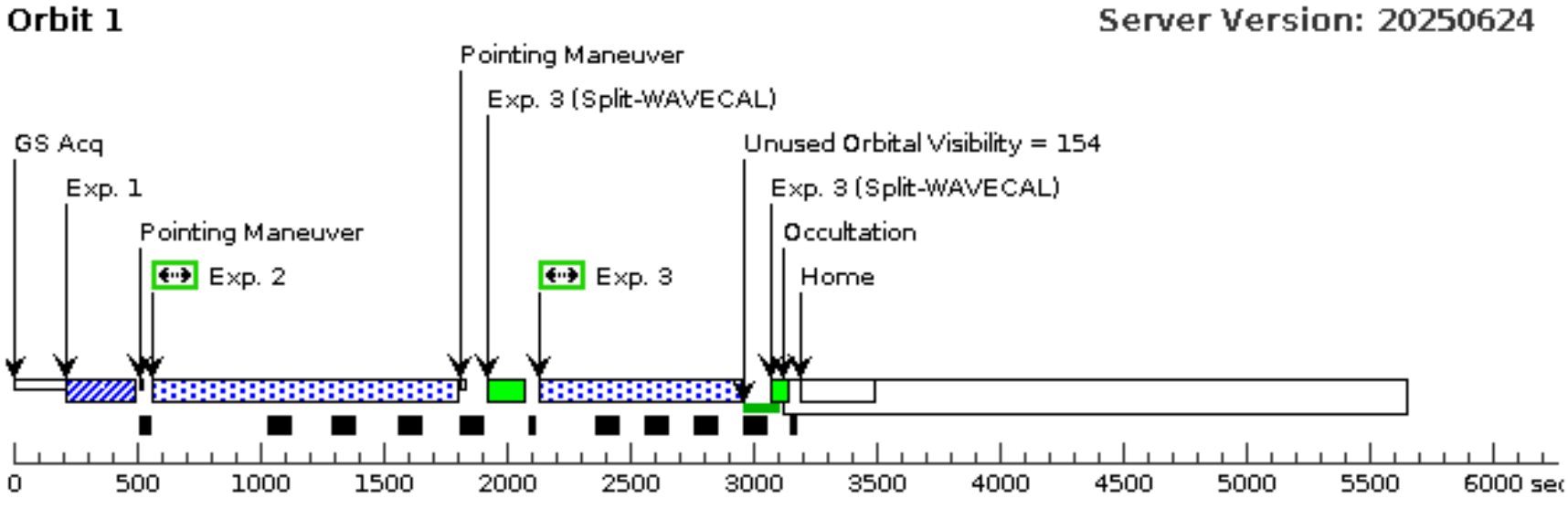
Comments: ETC Buffer fill time 394 seconds
*Set buffer-time = 394 * (2/3)*

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
3	G160M/1533/LP6 (COS.sp.2021985)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=200; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP6			771 Secs (771 Secs) *[==>]*	*[1]*

Comments: In Cycle 32, Hubble went reduced gyro mode and making GD71 unscheduable. Due to this, GD71 has been replaced with WD1057+719. WD1057+719 is dimmer than GD71 and allows the ability to obse rve with both segments which will reduce time used in visits.

ETC buffer-time = 300
Set buffer-time = 300(2/3)*

Orbit Structure



Visit

Proposal 18204, WD1057-MAY (2G) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 03-MAY-2026:00:00:00 AND 31-MAY-2026:00:00:00; SEQ 2E,2G WITHIN 7 D

Diagnostics

(WD1057-MAY (2G)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	WD1057+719	RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000	Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000.0	V=14.68	Reference Frame: ICRS

Comments: HST FASTEX standard
PM, coords from USNOB

GSC2 coords are 11:00:34.25, 71:38:02.97, 1997.19 epoch
Category=STAR
Description=[DA]
Extended=NO

Exposures

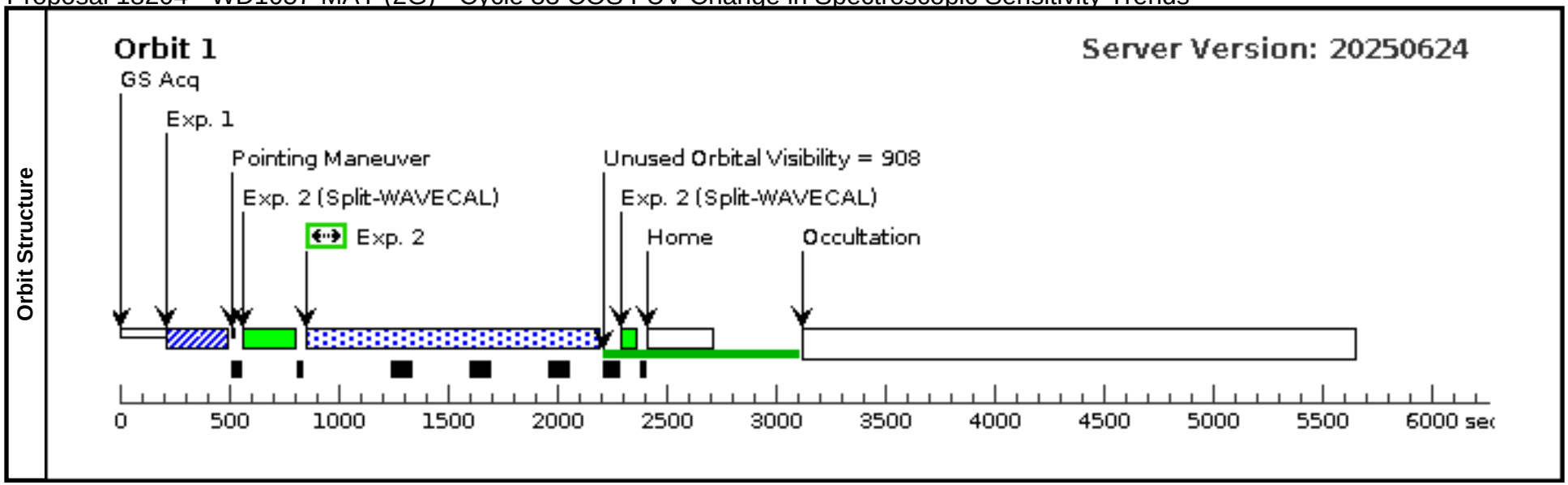
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925424)	(2) WD1057+719	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				30 Secs (30 Secs) *[==>]*	*[1]*

Comments: Exptime for S/N of 55 is 27 seconds.

In cycle 32, we replaced GD71 with WD1057+719 due to HST going into reduced gyro mode. The original exptime for S/N of 55 for GD71 was 90 seconds, so we use 30 seconds to achieve the same S/N as before.

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
2	G160M/1623/LP6 (COS.sp.2021981)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=357; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP6			1292 Secs (1292 Secs) *[==>]*	*[1]*

Comments: ETC Buffer fill time 536 seconds
*Set buffer-time = 536 * (2/3)*


Orbit Structure
Orbit 1
Server Version: 20250624
GS Acq
Exp. 1
Pointing Maneuver
Exp. 2 (Split-WAVECAL)
Exp. 2
Unused Orbital Visibility = 908
Exp. 2 (Split-WAVECAL)
Home
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 18204, WD1057-MAY (2H) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 03-MAY-2026:00:00:00 AND 31-MAY-2026:00:00:00; SEQ 2F,2H WITHIN 7 D

Diagnostics

(WD1057-MAY (2H)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	WD1057+719	RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000	Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000.0	V=14.68	Reference Frame: ICRS

Comments: HST FASTEX standard
PM, coords from USNOB

GSC2 coords are 11:00:34.25, 71:38:02.97, 1997.19 epoch
Category=STAR
Description=[DA]
Extended=NO

Exposures

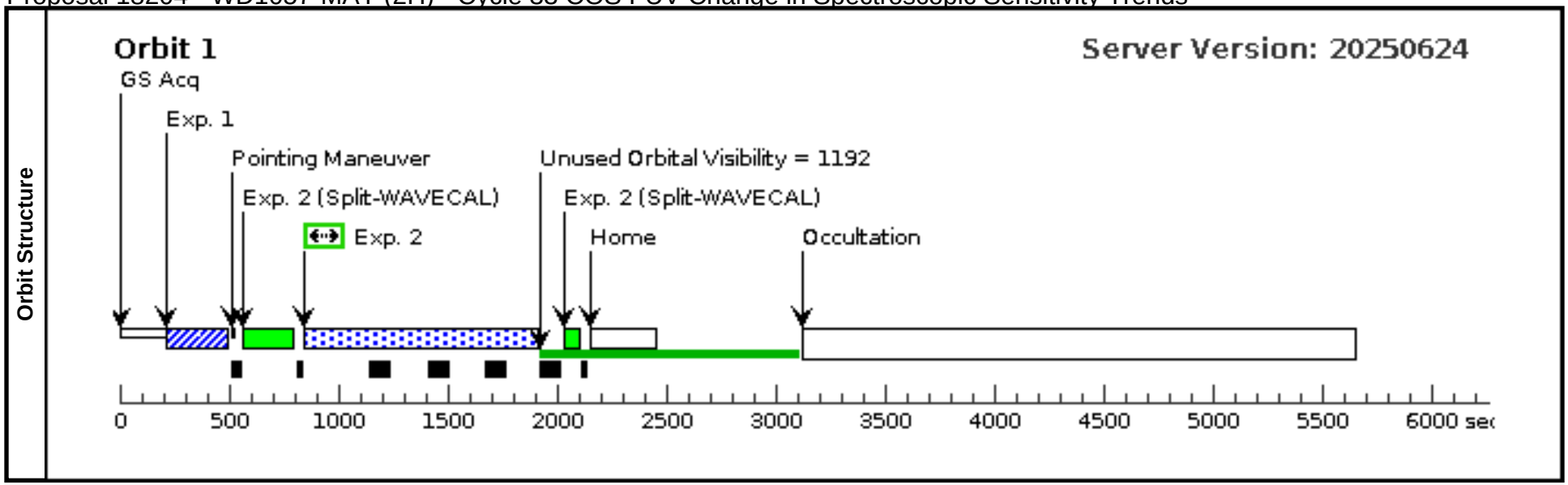
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925424)	(2) WD1057+719	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				30 Secs (30 Secs) *[==>]*	*[1]*

Comments: Exptime for S/N of 55 is 27 seconds.

In cycle 32, we replaced GD71 with WD1057+719 due to HST going into reduced gyro mode. The original exptime for S/N of 55 for GD71 was 90 seconds, so we use 30 seconds to achieve the same S/N as before.

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
2	G160M/1577/LP6 (COS.sp.2021984)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=262; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP6			1015 Secs (1015 Secs) *[==>]*	*[1]*

Comments: ETC Buffer fill time 394 seconds
*Set buffer-time = 394 * (2/3)*


Orbit Structure
Orbit 1
Server Version: 20250624
GS Acq
Exp. 1
Pointing Maneuver
Exp. 2 (Split-WAVECAL)
Exp. 2
Unused Orbital Visibility = 1192
Exp. 2 (Split-WAVECAL)
Home
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 18204, WD1057-MAY (2I) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 03-MAY-2026:00:00:00 AND 31-MAY-2026:00:00:00; SEQ 2D,2I WITHIN 7 D

Diagnostics

(WD1057-MAY (2I)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	WD1057+719	RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000	Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000.0	V=14.68	Reference Frame: ICRS

Comments: HST FASTEX standard
PM, coords from USNOB

GSC2 coords are 11:00:34.25, 71:38:02.97, 1997.19 epoch
Category=STAR
Description=[DA]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925424)	(2) WD1057+719	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				30 Secs (30 Secs) *[==>]*	*[1]*

Comments: Exptime for S/N of 55 is 27 seconds.

In cycle 32, we replaced GD71 with WD1057+719 due to HST going into reduced gyro mode. The original exptime for S/N of 55 for GD71 was 90 seconds, so we use 30 seconds to achieve the same S/N as before.

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
2	G130M/1096/FUVB/LP2 (COS.sp.2021980)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=932; FP-POS=3; SEGMENT=B; LIFETIME-POS=LP2			1042 Secs (1042 Secs) *[==>]*	*[1]*

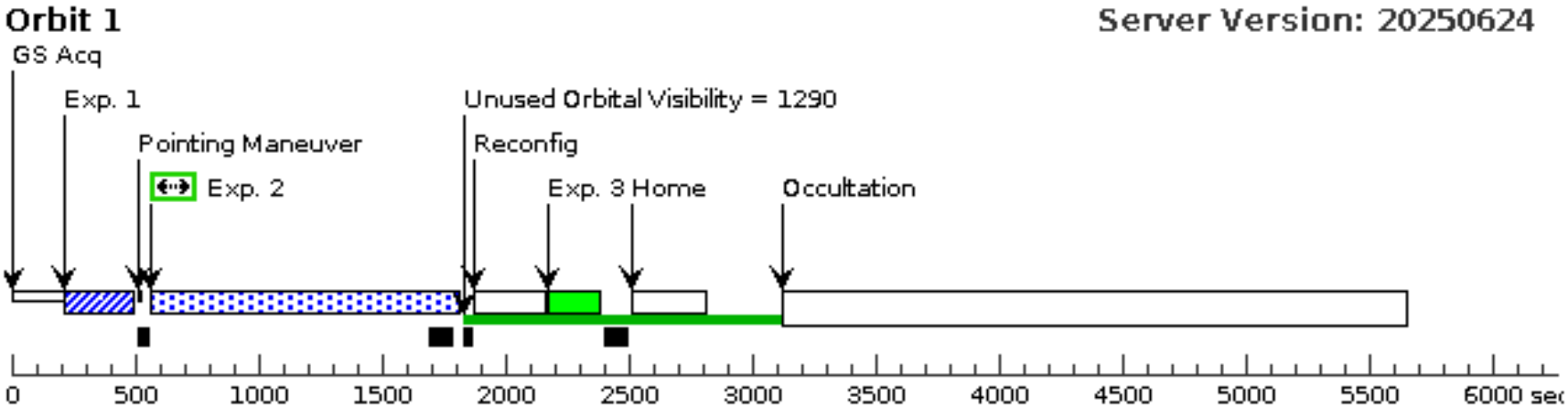
Comments: In Cycle 32, Hubble went reduced gyro mode and making GD71 unscheduable. Due to this, GD71 has been replaced with WD1057+719. WD1057+719 is dimmer than GD71 and allows the ability to observe with both segments which will reduce time used in visits. A draw back will be increased exposure time. In the TIR 2018-01, the team advises that an S/N of ~7 at 1030.00 will achieve comparable TDS data quality to the previous GD71 observations.

FUVB only (all ETC warnings come from FUVA).
The FUVB count rate is 231 cts/sec, so the buffer time is 10,202 sec.
Set buffer-time = exptime - 110 sec

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
3	G130M/1096/FUVA WAVECAL/LP2	WAVE	COS/FUV, TIME-TAG, WCA	G130M 1096 A	FP-POS=3; SEGMENT=A; FLASH=NO; LIFETIME-POS=LP2			160 Secs (160 Secs) *[==>]*	*[1]*

Comments: Cycle 28: the exposure time has been updated to 160 seconds. This was determined after characterizing the decrease by about 12 percent in the summed count-rate with time over the period between December 2017 and April 2020.

Orbit Structure



Visit

Proposal 18204, WD0308-JUL (3A) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 05-JUL-2026:00:00:00 AND 26-JUL-2026:00:00:00

Diagnostics

(WD0308-JUL (3A)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS

Comments: Coordinates carried over from Cycle 25 proposal, checked against SIMBAD, which uses the GAIA DR2 catalog.
Proper motions changed to mas/yr, from SIMBAD, also using the GAIA DR2 catalog.
Category=STAR
Description=[DB]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925399)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs) *[==>]*	*[1]*
2	G130M/1055/LP7 (COS.sp.2072417)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=236; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP7			346 Secs (346 Secs) *[==>]*	*[1]*
3	G130M/1291/LP7 (COS.sp.2072419)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=216; FP-POS=3; LIFETIME-POS=LP7; SEGMENT=BOTH			326 Secs (326 Secs) *[==>]*	*[1]*
4	G130M/1222/LP7 (COS.sp.2072422)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=187; FP-POS=3; LIFETIME-POS=LP7; SEGMENT=BOTH			297 Secs (297 Secs) *[==>]*	*[1]*

Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update.

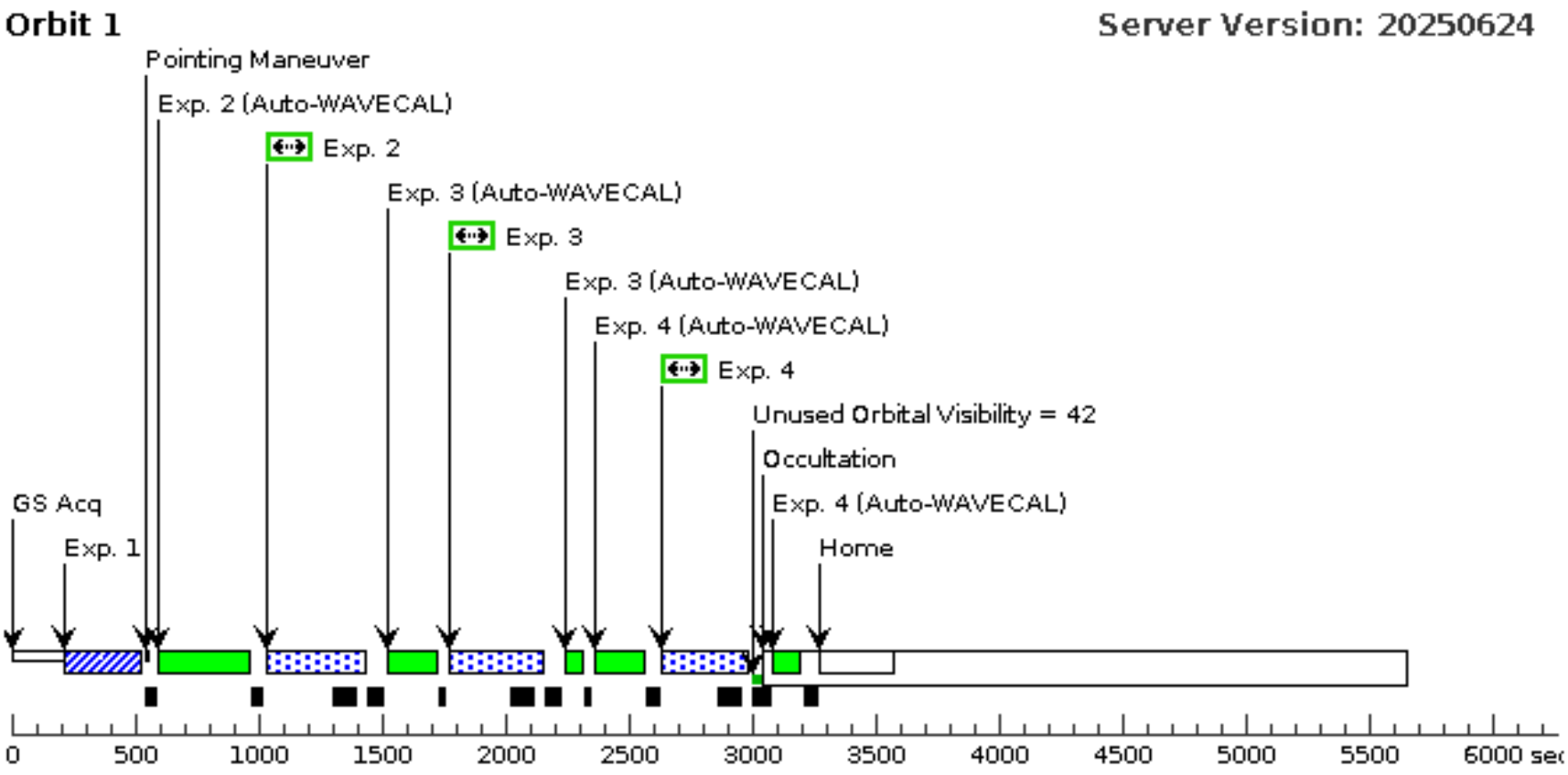
Cycle 32 comment: exposure time updated following blue modes TDS and FLUXTAB update.

ETC buffer time is 1,432 sec
Set buffer time = exptime - 110 sec

Comments: ETC buffer time is 404 sec.
Set buffer time = exptime - 110 sec

Comments: ETC buffer time is 456 sec.
Set buffer time = exptime - 110 sec

Orbit Structure



Visit

Proposal 18204, WD0308-JUL (3B) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

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

Special Requirements: BETWEEN 05-JUL-2026:00:00:00 AND 26-JUL-2026:00:00:00

Diagnostics

(WD0308-JUL (3B)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

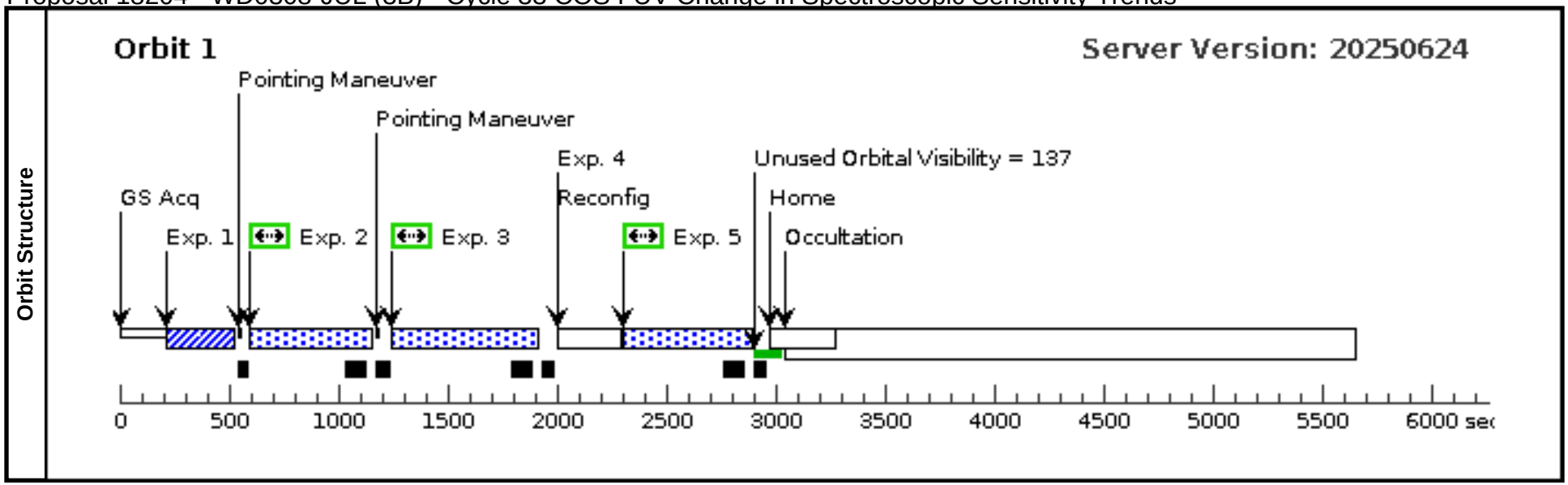
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 149.241 mas/yr	V=14.07+/-0.02	Reference Frame: ICRS
		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr		
		Equinox: J2000	Epoch of Position: 2000		

Comments: Coordinates carried over from Cycle 25 proposal, checked against SIMBAD, which uses the GAIA DR2 catalog.
Proper motions changed to mas/yr, from SIMBAD, also using the GAIA DR2 catalog.
Category=STAR
Description=[DB]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925399)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs) *[==>]*	*[1]*
	Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested. *Cycle 28 comment: we continue to use the same exposure time since differences do not affect orbit request.*								
2	G130M/1055/LP2 (COS.sp.2072417)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=236; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP2			346 Secs (346 Secs) *[==>]*	*[1]*
	Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update. --- *Cycle 32 comment: exposure time updated following blue modes TDS and FLUXTAB update.* *ETC buffer time is 1,432 sec* *Set buffer time = exptime - 110 sec*								
3	G140L/1280/LP3 (COS.sp.2072425)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=305; FP-POS=3; LIFETIME-POS=LP3; SEGMENT=BOTH			415 Secs (415 Secs) *[==>]*	*[1]*
	Comments: ETC buffer time is 680 sec. *Set buffer time = exptime - 110 sec*								
4		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVLOW		1 Secs (1 Secs) *[==>]*	*[1]*
	Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.								
5	G140L/800/FUVA/LP3 (COS.sp.2072426)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=328; FP-POS=3; SEGMENT=A; LIFETIME-POS=LP3			438 Secs (438 Secs) *[==>]*	*[1]*
	Comments: ETC buffer time is 480 sec. *Set buffer time = exptime - 110 sec*								


Orbit Structure
Orbit 1
Server Version: 20250624
Pointing Maneuver
Pointing Maneuver
Exp. 4
Unused Orbital Visibility = 137
GS Acq
Reconfig
Home
Exp. 1
Exp. 2
Exp. 3
Exp. 5
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 18204, WD0308-JUL (3C) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 05-JUL-2026:00:00:00 AND 26-JUL-2026:00:00:00

Diagnostics

(WD0308-JUL (3C)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

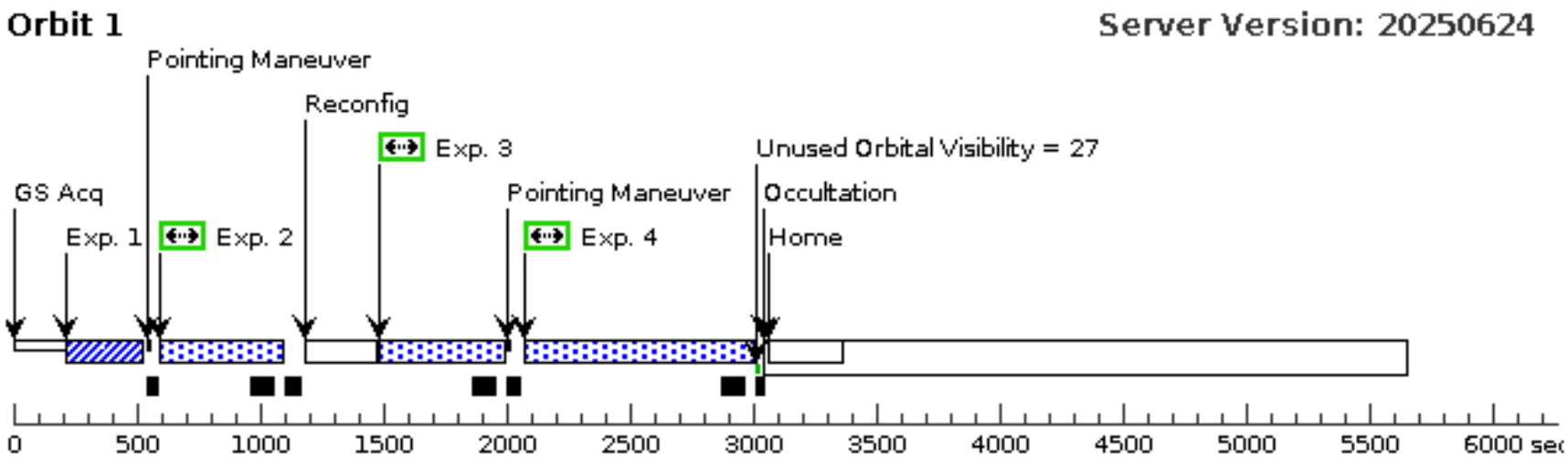
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS

Comments: Coordinates carried over from Cycle 25 proposal, checked against SIMBAD, which uses the GAIA DR2 catalog.
Proper motions changed to mas/yr, from SIMBAD, also using the GAIA DR2 catalog.
Category=STAR
Description=[DB]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925399)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs) *[==>]*	***[1]***
	Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested. *Cycle 28 comment: we continue to use the same exposure time since differences do not affect orbit request.*								
2	G130M/1291/LP5 (COS.sp.2072419)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=216; FP-POS=3; LIFETIME-POS=LP5; SEGMENT=BOTH			326 Secs (326 Secs) *[==>]*	***[1]***
	Comments: ETC buffer time is 404 sec. *Set buffer time = exptime - 110 sec*								
3	G130M/1327/FUVA/LP5 (COS.sp.2072427)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=264; FP-POS=3; LIFETIME-POS=LP5; SEGMENT=A			374 Secs (374 Secs) *[==>]*	***[1]***
	Comments: ETC buffer time is 379 sec. *set buffer time = exptime - 110 sec*								
4	G140L/1105/FUVA/LP3 (COS.sp.2072429)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=573; FP-POS=3; SEGMENT=A; LIFETIME-POS=LP3			683 Secs (683 Secs) *[==>]*	***[1]***
	Comments: ETC buffer time is 508 sec. *Set buffer time = exptime - 110 sec*								

Orbit Structure



Visit

Proposal 18204, WD0308-SEP (4A) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 06-SEP-2026:00:00:00 AND 30-SEP-2026:00:00:00

Diagnostics

(WD0308-SEP (4A)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS

Comments: Coordinates carried over from Cycle 25 proposal, checked against SIMBAD, which uses the GAIA DR2 catalog.
Proper motions changed to mas/yr, from SIMBAD, also using the GAIA DR2 catalog.
Category=STAR
Description=[DB]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925399)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs) *[==>]*	 ***[1]***
2	G130M/1055/LP7 (COS.sp.2072417)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=236; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP7			346 Secs (346 Secs) *[==>]*	 ***[1]***
3	G130M/1291/LP7 (COS.sp.2072419)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=216; FP-POS=3; LIFETIME-POS=LP7; SEGMENT=BOTH			326 Secs (326 Secs) *[==>]*	 ***[1]***
4	G130M/1222/LP7 (COS.sp.2072422)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=187; FP-POS=3; LIFETIME-POS=LP7; SEGMENT=BOTH			297 Secs (297 Secs) *[==>]*	 ***[1]***

Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update.

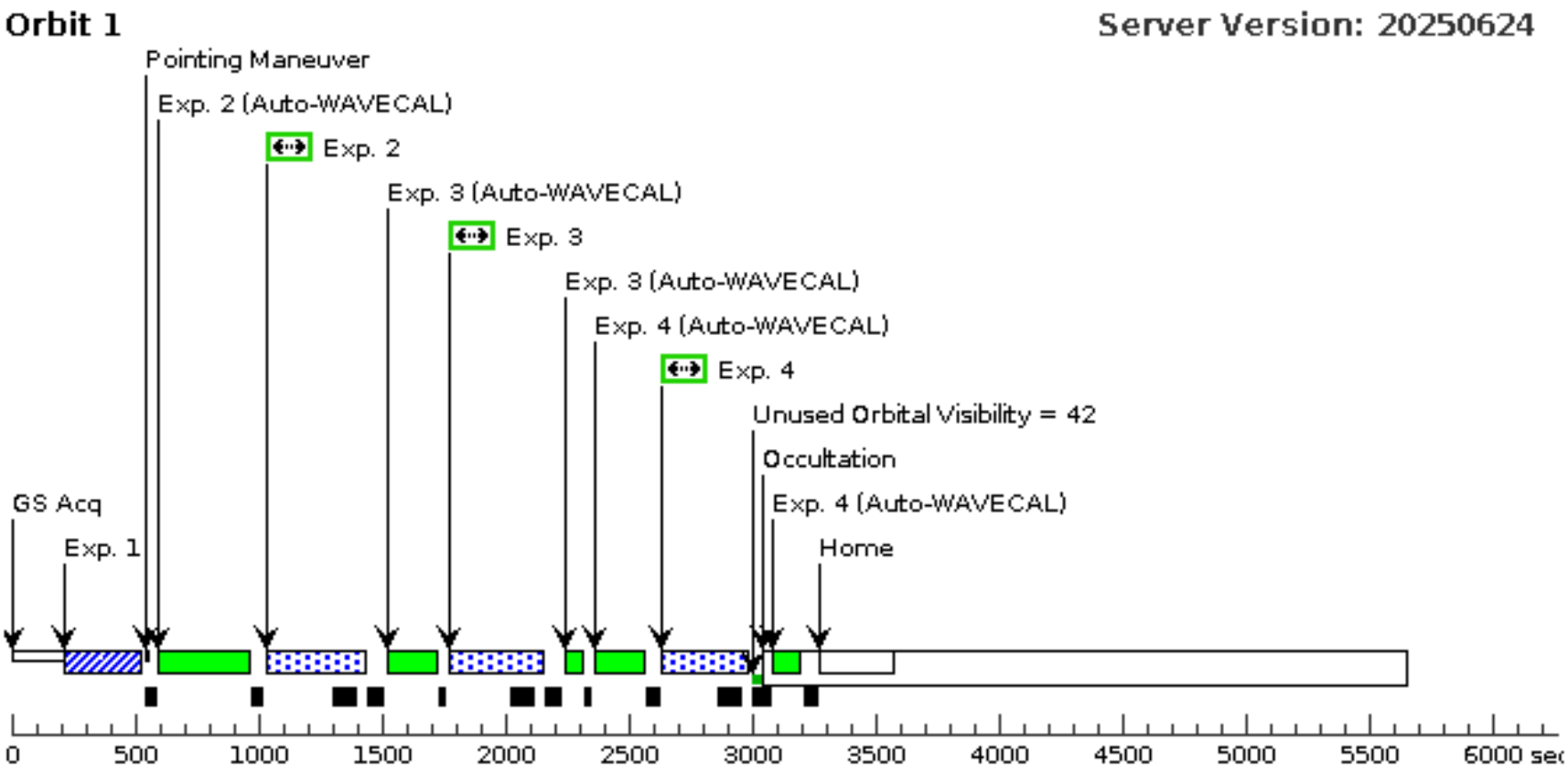
Cycle 32 comment: exposure time updated following blue modes TDS and FLUXTAB update.

ETC buffer time is 1,432 sec
Set buffer time = exptime - 110 sec

Comments: ETC buffer time is 404 sec.
Set buffer time = exptime - 110 sec

Comments: ETC buffer time is 456 sec.
Set buffer time = exptime - 110 sec

Orbit Structure



Visit

Proposal 18204, WD0308-SEP (4B) Thu Sep 25 11:00:31 GMT 2025

Diagnostic Status: Warning

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

Special Requirements: BETWEEN 06-SEP-2026:00:00:00 AND 30-SEP-2026:00:00:00; SEQ 4A,4B WITHIN 7 D

Diagnostics

(WD0308-SEP (4B)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

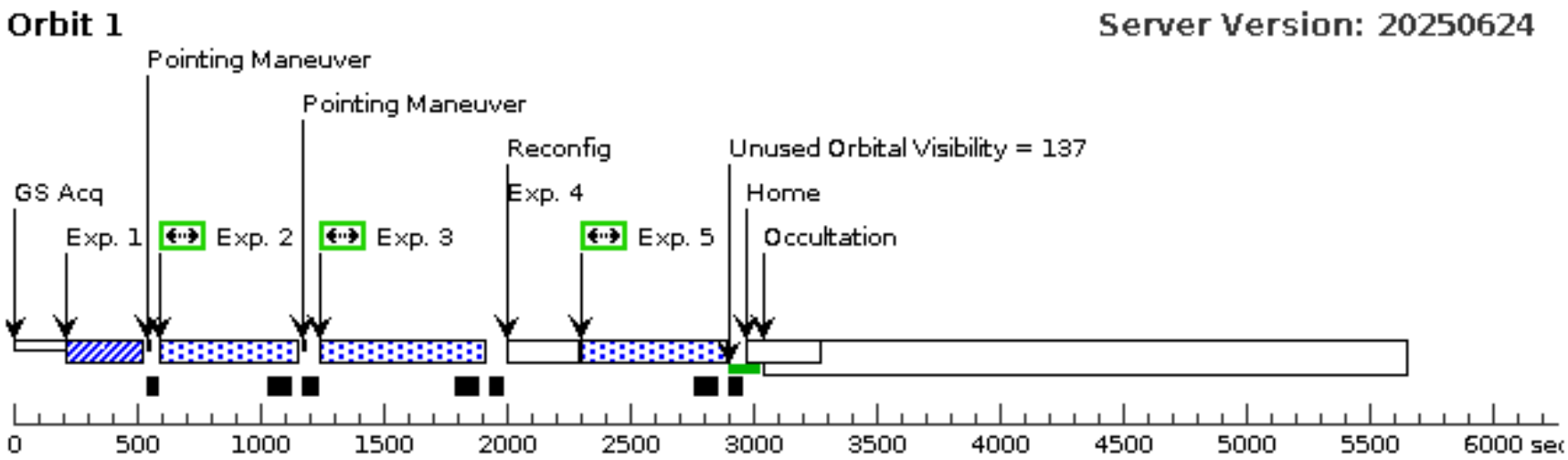
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d)	Proper Motion RA: 149.241 mas/yr	V=14.07+/-0.02	Reference Frame: ICRS
		Dec: -56 23 49.41 (-56.39706d)	Proper Motion Dec: 66.919 mas/yr		
		Equinox: J2000	Epoch of Position: 2000		

Comments: Coordinates carried over from Cycle 25 proposal, checked against SIMBAD, which uses the GAIA DR2 catalog.
Proper motions changed to mas/yr, from SIMBAD, also using the GAIA DR2 catalog.
Category=STAR
Description=[DB]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925399)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs) *[==>]*	***[1]***
Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested. *Cycle 28 comment: we continue to use the same exposure time since differences do not affect orbit request.*									
2	G130M/1055/LP2 (COS.sp.2072417)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=236; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP2			346 Secs (346 Secs) *[==>]*	***[1]***
Comments: Cycle 29 comment: exposure time updated following blue modes TDS and FLUXTAB update. --- *Cycle 32 comment: exposure time updated following blue modes TDS and FLUXTAB update.* *ETC buffer time is 1,432 sec* *Set buffer time = exptime - 110 sec*									
3	G140L/1280/LP3 (COS.sp.2072425)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=305; FP-POS=3; LIFETIME-POS=LP3; SEGMENT=BOTH			415 Secs (415 Secs) *[==>]*	***[1]***
Comments: ETC buffer time is 680 sec. *Set buffer time = exptime - 110 sec*									
4		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVLOW		1 Secs (1 Secs) *[==>]*	***[1]***
Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.									
5	G140L/800/FUVA/LP3 (COS.sp.2072426)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=328; FP-POS=3; SEGMENT=A; LIFETIME-POS=LP3			438 Secs (438 Secs) *[==>]*	***[1]***
Comments: ETC buffer time is 480 sec. *Set buffer time = exptime - 110 sec*									

Orbit Structure



Visit

Proposal 18204, WD0308-SEP (4C) Thu Sep 25 11:00:32 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 06-SEP-2026:00:00:00 AND 30-SEP-2026:00:00:00; SEQ 4A,4C WITHIN 7 D

Diagnostics

(WD0308-SEP (4C)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

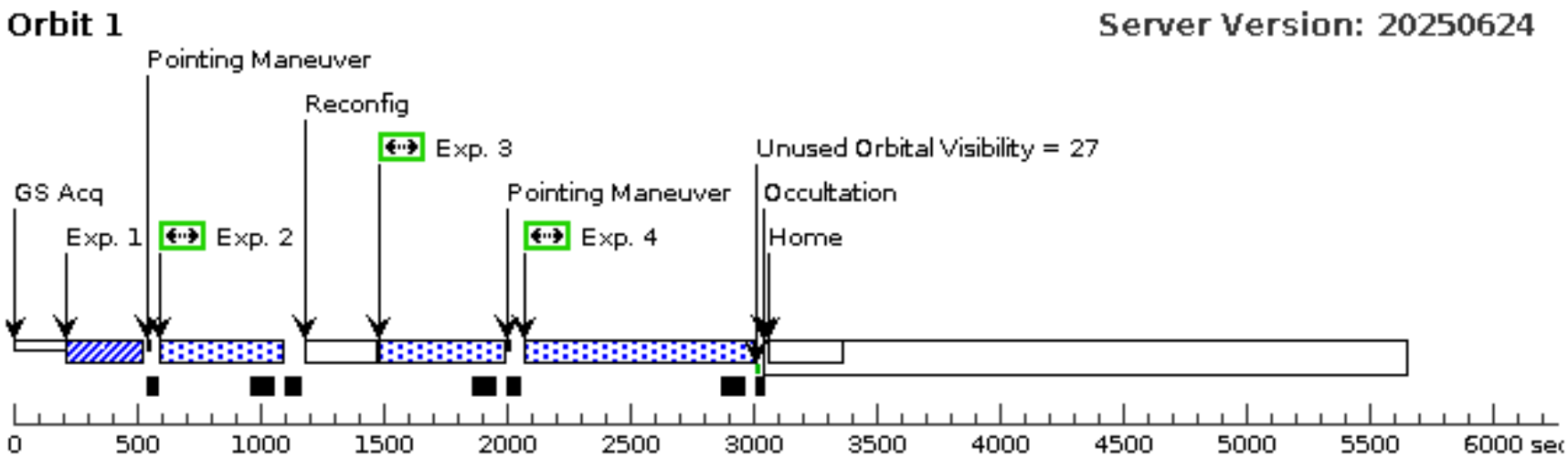
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 149.241 mas/yr Proper Motion Dec: 66.919 mas/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS

Comments: Coordinates carried over from Cycle 25 proposal, checked against SIMBAD, which uses the GAIA DR2 catalog.
Proper motions changed to mas/yr, from SIMBAD, also using the GAIA DR2 catalog.
Category=STAR
Description=[DB]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925399)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs) *[==>]*	***[1]***
	Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested. *Cycle 28 comment: we continue to use the same exposure time since differences do not affect orbit request.*								
2	G130M/1291/LP5 (COS.sp.2072419)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=216; FP-POS=3; LIFETIME-POS=LP5; SEGMENT=BOTH			326 Secs (326 Secs) *[==>]*	***[1]***
	Comments: ETC buffer time is 404 sec. *Set buffer time = exptime - 110 sec*								
3	G130M/1327/FUVA/LP5 (COS.sp.2072427)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=264; FP-POS=3; LIFETIME-POS=LP5; SEGMENT=A			374 Secs (374 Secs) *[==>]*	***[1]***
	Comments: ETC buffer time is 379 sec. *set buffer time = exptime - 110 sec*								
4	G140L/1105/FUVA/LP3 (COS.sp.2072429)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=573; FP-POS=3; SEGMENT=A; LIFETIME-POS=LP3			683 Secs (683 Secs) *[==>]*	***[1]***
	Comments: ETC buffer time is 508 sec. *Set buffer time = exptime - 110 sec*								

Orbit Structure



Visit

Proposal 18204, WD1057-SEP (4D) Thu Sep 25 11:00:32 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 06-SEP-2026:00:00:00 AND 30-SEP-2026:00:00:00

Diagnostics

(WD1057-SEP (4D)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	WD1057+719	RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000	Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000.0	V=14.68	Reference Frame: ICRS

Comments: HST FASTEX standard
PM, coords from USNOB

GSC2 coords are 11:00:34.25, 71:38:02.97, 1997.19 epoch
Category=STAR
Description=[DA]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925424)	(2) WD1057+719	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				30 Secs (30 Secs) *[==>]*	*[1]*

Comments: Exptime for S/N of 55 is 27 seconds.

In cycle 32, we replaced GD71 with WD1057+719 due to HST going into reduced gyro mode. The original exptime for S/N of 55 for GD71 was 90 seconds, so we use 30 seconds to achieve the same S/N as before.

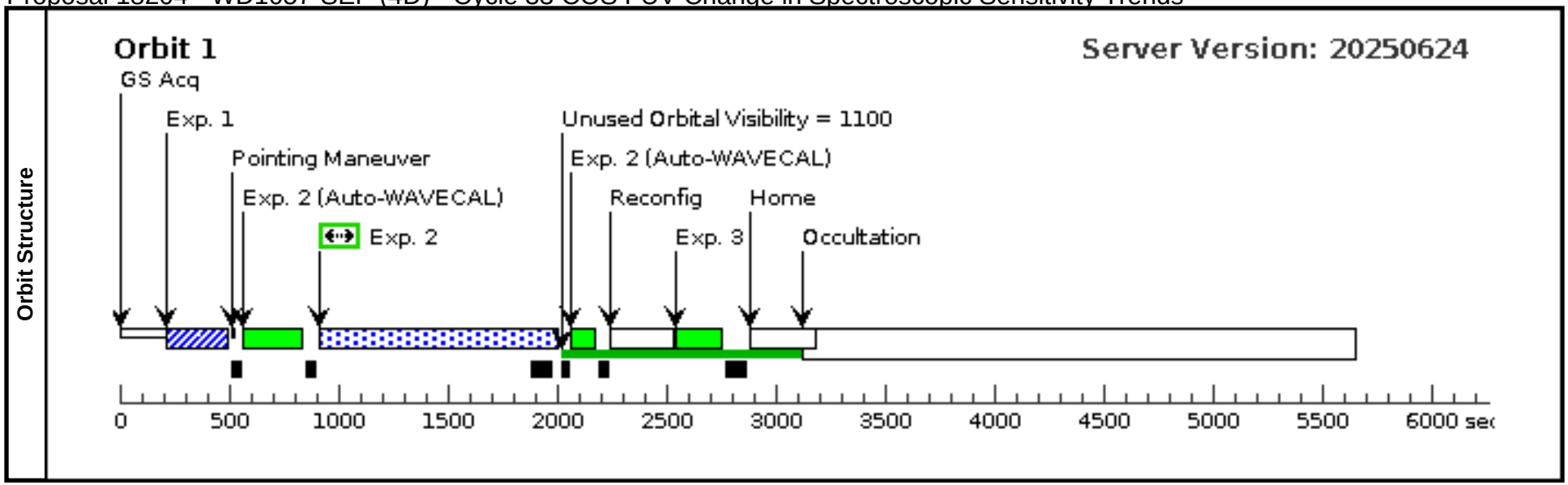
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
2	G130M/1096/FUVB/LP7 (COS.sp.2021980)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=932; FP-POS=3; SEGMENT=B; LIFETIME-POS=LP7			1042 Secs (1042 Secs) *[==>]*	*[1]*

Comments: In Cycle 32, Hubble went reduced gyro mode and making GD71 unscheduable. Due to this, GD71 has been replaced with WD1057+719. WD1057+719 is dimmer than GD71 and allows the ability to observe with both segments which will reduce time used in visits. A draw back will be increased exposure time. In the TIR 2018-01, the team advises that an S/N of ~7 at 1030.00 will achieve comparable TDS data quality to the previous GD71 observations.

FUVB only (all ETC warnings come from FUVA).
The FUVB count rate is 231 cts/sec, so the buffer time is 10,202 sec.
Set buffer-time = exptime - 110 sec

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
3	G130M/1096/FUVA WAVECAL/LP7	WAVE	COS/FUV, TIME-TAG, WCA	G130M 1096 A	FP-POS=3; SEGMENT=A; FLASH=NO; LIFETIME-POS=LP7			160 Secs (160 Secs) *[==>]*	*[1]*

Comments: Cycle 28: the exposure time has been updated to 160 seconds. This was determined after characterizing the decrease by about 12 percent in the summed count-rate with time over the period between December 2017 and April 2020.


Orbit Structure
Orbit 1
Server Version: 20250624
GS Acq
Exp. 1
Pointing Maneuver
Exp. 2 (Auto-WAVECAL)
Exp. 2
Unused Orbital Visibility = 1100
Exp. 2 (Auto-WAVECAL)
Reconfig
Home
Exp. 3
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 18204, WD1057-SEP (4E) Thu Sep 25 11:00:32 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 06-SEP-2026:00:00:00 AND 30-SEP-2026:00:00:00

Diagnostics

(WD1057-SEP (4E)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	WD1057+719	RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000	Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000.0	V=14.68	Reference Frame: ICRS

Comments: HST FASTEX standard
PM, coords from USNOB

GSC2 coords are 11:00:34.25, 71:38:02.97, 1997.19 epoch
Category=STAR
Description=[DA]
Extended=NO

Exposures

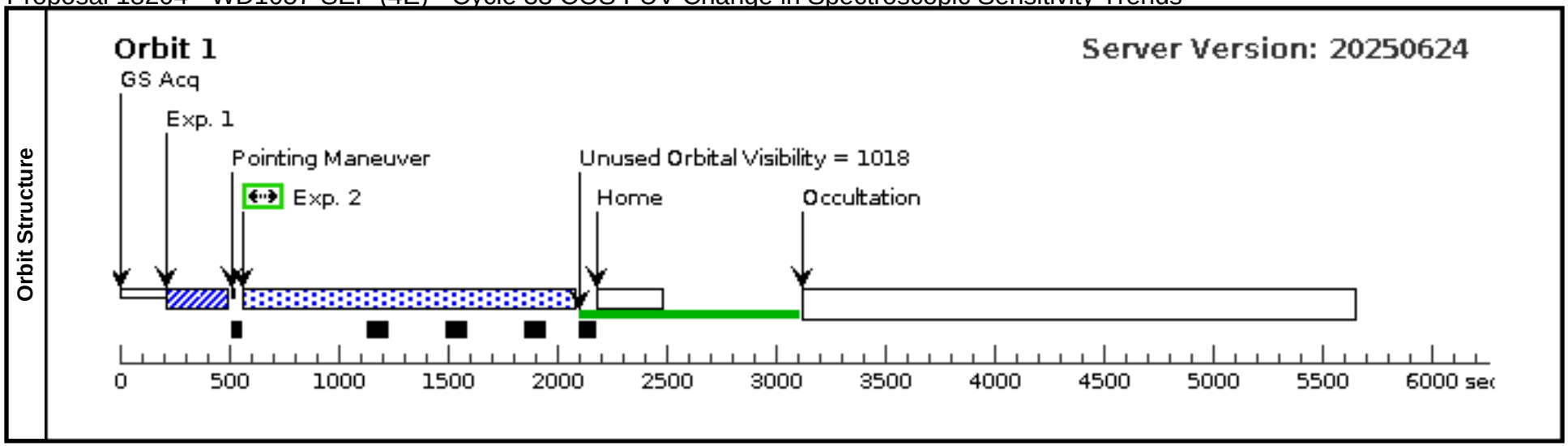
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925424)	(2) WD1057+719	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				30 Secs (30 Secs) *[==>]*	*[1]*

Comments: Exptime for S/N of 55 is 27 seconds.

In cycle 32, we replaced GD71 with WD1057+719 due to HST going into reduced gyro mode. The original exptime for S/N of 55 for GD71 was 90 seconds, so we use 30 seconds to achieve the same S/N as before.

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
2	G160M/1623/LP10 (COS.sp.2021981)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=357; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP10			1292 Secs (1292 Secs) *[==>]*	*[1]*

Comments: ETC Buffer fill time 536 seconds
*Set buffer-time = 536 * (2/3)*


Orbit Structure
Orbit 1
Server Version: 20250624
GS Acq
Exp. 1
Pointing Maneuver
Exp. 2
Unused Orbital Visibility = 1018
Home
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 18204, WD1057-SEP (4F) Thu Sep 25 11:00:32 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: BETWEEN 06-SEP-2026:00:00:00 AND 30-SEP-2026:00:00:00

Diagnostics

(WD1057-SEP (4F)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	WD1057+719	RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000	Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000.0	V=14.68	Reference Frame: ICRS

Comments: HST FASTEX standard
PM, coords from USNOB

GSC2 coords are 11:00:34.25, 71:38:02.97, 1997.19 epoch
Category=STAR
Description=[DA]
Extended=NO

Exposures

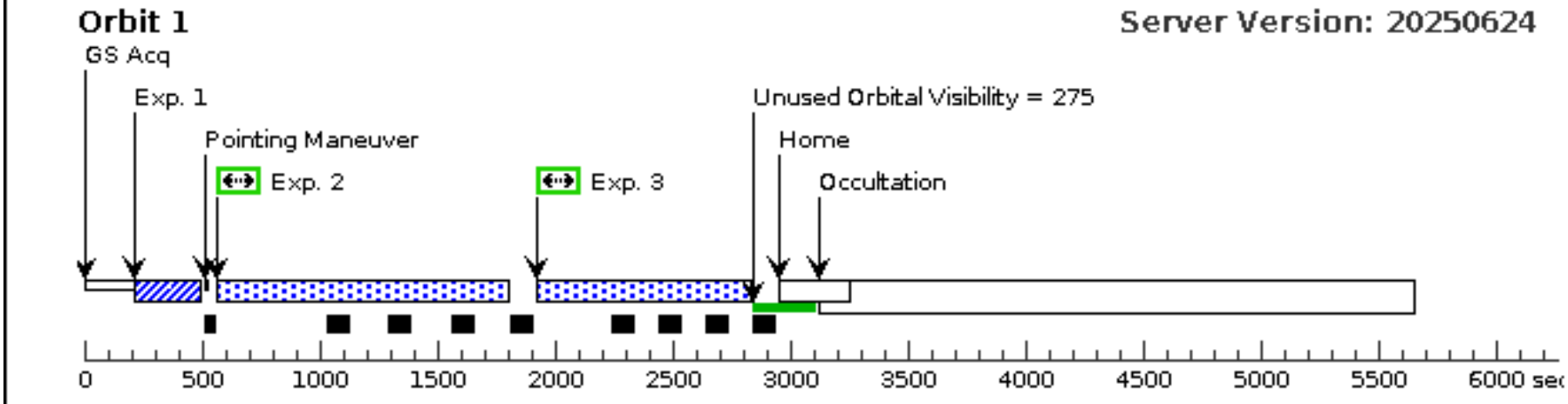
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (COS.ta.1925424)	(2) WD1057+719	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				30 Secs (30 Secs) *[==>]*	*[1]*
2	G160M/1577/LP10 (COS.sp.2021984)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=262; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP10			1015 Secs (1015 Secs) *[==>]*	*[1]*
3	G160M/1533/LP10 (COS.sp.2021985)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=200; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=LP10			771 Secs (771 Secs) *[==>]*	*[1]*

Comments: Exptime for S/N of 55 is 27 seconds.

In cycle 32, we replaced GD71 with WD1057+719 due to HST going into reduced gyro mode. The original exptime for S/N of 55 for GD71 was 90 seconds, so we use 30 seconds to achieve the same S/N as before.

Comments: ETC Buffer fill time 394 seconds
*Set buffer-time = 394 * (2/3)*

Comments: In Cycle 32, Hubble went reduced gyro mode and making GD71 unscheduable. Due to this, GD71 has been replaced with WD1057+719. WD1057+719 is dimmer than GD71 and allows the ability to obse rve with both segments which will reduce time used in visits.

ETC buffer-time = 300
Set buffer-time = 300(2/3)*

Orbit Structure