17093 - A Systematic Search for Wind-CGM Interactions in Star-forming Galaxies

Cycle: 30, Proposal Category: GO

(UV Initiative)

(Availability Mode: AVAILABLE)

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?*
01	(1) J091440.38+282330.6	COS/NUV	1	10-Nov-2022 11:01:35.0	yes
02	(2) J094331.61+053131.4	COS/NUV	1	10-Nov-2022 11:01:35.0	yes
03	(3) J100902.06+071343.8	COS/NUV	1	10-Nov-2022 11:01:36.0	yes
04	(4) J101622.60+470643.3	COS/NUV	1	10-Nov-2022 11:01:36.0	yes
05	(5) J111239.11+353928.2	COS/NUV	1	10-Nov-2022 11:01:37.0	yes
06	(6) J123304.05-003134.1	COS/NUV	2	10-Nov-2022 11:01:37.0	yes
07	(7) J123335.07+475800.4	COS/NUV	1	10-Nov-2022 11:01:38.0	yes
08	(8) J124154.02+572107.3	COS/NUV	2	10-Nov-2022 11:01:38.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
09	(9) J124511.25+335610.1	COS/NUV	1	10-Nov-2022 11:01:39.0	yes
10	(10) J133045.15+281321.4	COS/NUV	2	10-Nov-2022 11:01:39.0	yes
12	(12) J143511.53+360437.2	COS/NUV	1	10-Nov-2022 11:01:40.0	yes
13	(13) J143726.14+504555.8	COS/NUV	1	10-Nov-2022 11:01:40.0	yes
14	(14) J144511.28+342825.4	COS/NUV	2	10-Nov-2022 11:01:41.0	yes
15	(15) J151428.64+361957.9	COS/NUV	2	10-Nov-2022 11:01:41.0	yes
16	(16) J155048.29+400144.9	COS/NUV	1	10-Nov-2022 11:01:42.0	yes
17	(17) J155504.39+362848.0	COS/NUV	1	10-Nov-2022 11:01:42.0	yes
18	(18) J161916.54+334238.4	COS/NUV	1	10-Nov-2022 11:01:43.0	yes
19	(19) J143443.68+200524.4	COS/FUV COS/NUV	5	10-Nov-2022 11:01:44.0	yes
20	(20) J005709.94+144610.1	COS/FUV COS/NUV	2	10-Nov-2022 11:01:45.0	yes
21	(21) J122503.21+162406.7	COS/FUV COS/NUV	5	10-Nov-2022 11:01:46.0	yes
22	(22) J122039.35+171820.7	COS/FUV COS/NUV	5	10-Nov-2022 11:01:48.0	yes
23	(23) J121044.09+164533.1	COS/FUV COS/NUV	5	10-Nov-2022 11:01:49.0	yes
24	(24) J102814.54+211955.1	COS/NUV	1	10-Nov-2022 11:01:49.0	yes
25	(25) J085125.71+093953.3	COS/FUV COS/NUV	5	10-Nov-2022 11:01:50.0	yes
26	(26) J104201.81+181527.7	COS/FUV COS/NUV	5	10-Nov-2022 11:01:51.0	yes
27	(27) J093211.68+315709.7	COS/FUV COS/NUV	5	10-Nov-2022 11:01:53.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
28	(28) J103645.15+370701.2	COS/FUV COS/NUV	5	10-Nov-2022 11:01:54.0	yes
29	(29) J113137.16+155645.3	COS/NUV	2	10-Nov-2022 11:01:54.0	yes
30	(30) J092718.49+304539.0	COS/FUV COS/NUV	5	10-Nov-2022 11:01:55.0	yes
31	(31) J140753.62+174836.0	COS/FUV COS/NUV	2	10-Nov-2022 11:01:56.0	yes
32	(32) J120917.35+261613.1	COS/NUV	2	10-Nov-2022 11:01:57.0	yes
33	(33) J100334.72+050232.0	COS/FUV COS/NUV	4	10-Nov-2022 11:01:59.0	yes

80 Total Orbits Used

ABSTRACT

In the current cosmological framework, galactic superwinds play a pivotal role in regulating star formation and producing the observed stellar mass function. Theory suggests that galactic winds impede the flow of cool gas from the circumgalactic medium (CGM) onto the disk of galaxies; however, the microphysics of how galactic winds do so is still a mystery. The goal of this program is to unveil this elusive process.

We propose to observe the CGM of a complete sample of 42 galaxies via QSO-absorption spectroscopy in three coronal lines - CIV, NV, and OVI - that match the predicted energetics of the wind-CGM interactions. Theoretical models advocate that the differences in the strengths and kinematics of the coronal lines are necessary and sufficient indicators to identify the complex processes involved in the multiphase wind-CGM fluid interactions. Currently, we have only 4 galaxies with archival data on all three lines. Thus, the proposed dataset will be essential for constraining models of galactic feedback.

Our program will - (1) detect evidence for wind-CGM interactions in star-forming galaxies; (2) determine how the strength of the wind-CGM interactions vary with galaxy properties; and (3) compare coronal lines between observations and those predicted by idealized and cosmological simulations. Our idealized simulations incorporate non-equilibrium physics in the presence of a weak magnetic field - conditions similar to the real CGM.

We will release our data products to the community via the Hubble Legacy Archive within six months of the last observations. It will be a comprehensive dataset suitable for direct comparison with a host of ongoing simulation efforts.

OBSERVING DESCRIPTION

The observations would take speactra of 32 QSOs to probe the CGM of foreground star-forming galaxies in absorption. (Note: Target 11 was removed by TAC).

Our strategic goal is to build a sample of QSO/galaxy pairs with impact parameter <= 150 kpc to study multi-phase gas in galactic halos. The goal is to identify signatures of interactions of galactic winds with the CGM and quntify the physical process(es) that are resulting in the observed line ratio of highly ionized species. A combination of COS NU and FUV grating is used to cover CIV, NV, and OVI lines, which gives us access to a host of important ionization diagnostics. The galaxy redshifts range from z ~ 0.1-0.35, where these ions will be covered on at least one of the grating settings.

Exposure times: Almost half of our target QSOs have been observed before with COS by other HST programs, but did not cover all the three (CIV, OVI, NV) transitions. The remaining half are new QSO targets identified by correlating SDSS optically identified QSO with GALEX FUV flux. To ensure sufficient flux we have cross-referenced our QSO catalog with the GALEX DR4 all-sky survey (AIS) and selected only QSOs with a significant detection in the GALEX FUV and NUV bands. Measured GALEX FUV (NUV) magnitudes for our sample range from 17.24(16.94) to 19.0(18.83). Note that if we assume the FOS composite QSO in the ETC, QSOs in this range of redshift and magnitude are always well below the bright limits of COS for both FUV spectroscopic exposures and NUV imaging target acquisitions with MIRRORB.

We use the COS online ETC to calculate that we will achieve S/N = 8-12 per resolution element over 1150 - 2000 A with 1-3 orbit exposures for our target objects. Use of the GALEX fluxes means that we do not need to correct for interstellar extinction, which in any case is E(B-V) <~ 0.1 for these high-latitude targets. Each visit has had the two central wavelengths packed for maximim efficiency, with the central wavelengths chosen to place the resulting low-S/N gap away from absorption lines of interest. Based on our experience with the ETC for QSOs in this range of redshift and magnitude and with similar objects observed by COS-GASS in Cycles 19, we know that these spectra always have their brightest pixel at the position of geocoronal Lyman alpha emission, not from the QSO source. These objects never get close to the bright limits, whatever the magnitude, redshift, or central wavelength setting. In a few cases we use exposure with two gratings or different central wavelengths to fill the ~ 15 A gap between detector segments or to get better coverage for lines on the edge of the grating.

Notes on Acquisitions:
Our coordinates are all from SDSS, with astrometry good to 100 mas, so we adopt NUV imaging (ACQ/IMAGE) for all targets. We have set the exposure times for each NUV mag or 0.5 mag using the faintest target at S/N =20 as the limiting case, and then rounding up to provide a margin of safety against QSO fading. Adding 1 mag margin, more that 90% our targets are too bright for MIRRORA acquisitions, so we use MIRRORB in every case.

We use 1 mag brighter source to check the exposure time for safety. Brightest target in the sample has GALEX NUV = 16.9, and we use an acquisition time of 19s to get S/N = 20 for MIRRORB and PSA (ETC id: 1811563). It has 3ct/s in the brightest pixel, and 21 ct/s in the 9x9 pixel selcted region. At one magnitude brighter (GALEX FUV = 16.0), this target is still safe to acquire with MIRRORB in the NUV, with 12 ct/s in the brightest pixel, 84 ct/s in the selected region, and 1447 ct/s on the entire detector (ETC COS 1811570). In fact this target at one magnitude brighter is safe to observe with MIRRORB even for our longest exposure of 76s (COS.ta.1811571). The ETC run shows that the brightest will have a total count of 883 and the selected region 6410 and safe for observations.

MIRROR B, ACQ/IMAGE, S/N=20:

NUV Mag	Exposure_Time	ETC_COS_ID	Safety_Check	Safety_Check_ETC_ID_+1.5mag	Num_of_targets	Visits
17.5 (16.9 - 17.5)	19s	1811563	Safe	1811570	9 targets	3,4,9,12,16,18,20,24,28
18.0 (17.5 - 18.0)	30s	1811564	Safe	1811569	10 targets	2,5,7,8,13,14,15,17,31,33
18.5 (18.0 - 18.5)	48s	1811565	Safe	1811568	8 targets	1,6,10,21,22,26,27,32
19.0 (18.5- 19.0)	76s	1811566	Safe	1811567	5 targets	19,23,25,29,30

For program targets with multi-epoch GALEX data, the true variability of these QSOs is of order ~< 0.2 mag, much less than this 1 mag assumption. For this reason, and because our brightest target is safe to acquire, all our targets are safe to acquire in NUV imaging with MIRRORB.

Notes on on-source exposure:
We estimate the exposure time to maximize the S/N based on the GALEX FUV/NUV magnitude of the target. We achive a S/N ~ 8-14 for target at the resolution of G230L. However, we acquire the data at the highest resolution mode in order to maximize our understanding of the componnet structure. We intend to produce multiple spectra from the data at different resolution and S/N from R of about 20,000- 2,000. We estimate the exposure times using ETC calculations for each source. We use the OVI and CIV lines to calculate the exposure times for the FUV and NUV gratings. Note than in every case, the local and global count rates are far below the limits, and that in every case for G130M the brightest pixels correspond to geocoronal Lya, which is >1-2 orders of magnitude brighter than the source QSOs. In any case these count rates are well below the local and global limits.

The central wavelengths are set to optimally cover the interesting absorption lines from the galaxies of interest. The representative ETCs show that geocoronal Lya is always the brightest spot in G130M regardless of the cenwave, but is still well below the limits (0.1 cts at Lya vs. 0.67 cts limit), and the targets tend to be at least an order of magnitude fainter. Since the FOS template spectrum is relatively flat (see the representative cases) the global count rate is almost invariant with cenwave and never gets close to the limits

Visit

Proposal 17093, Visit 01, scheduling Thu Nov 10 16:02:00 GMT 2022

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

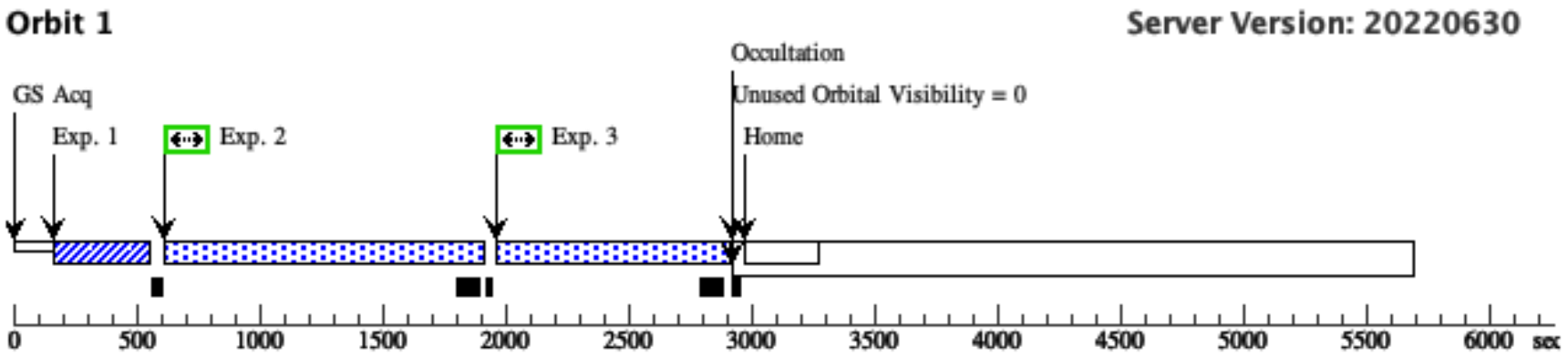
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	J091440.38+282330.6	RA: 09 14 40.3800 (138.6682500d) Dec: +28 23 30.60 (28.39183d) Equinox: J2000		V=17.6+/-0.1 GALEX FUV=18.76, NUV=18.08 mag	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811565)	(1) J091440.38+282330.6	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				48 Secs (48 Secs) *[==>]*	*[1]*
2	(1811893)	(1) J091440.38+282330.6	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=1; FLASH=YES; BUFFER-TIME=1087			1187 Secs (1187 Secs) *[==>]*	*[1]*
	Comments: CIV line at z=0.24431 is at lamda= 1928A								
3	(1811893)	(1) J091440.38+282330.6	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=2; FLASH=YES; BUFFER-TIME=822			932 Secs (932 Secs) *[==>]*	*[1]*
	Comments: CIV line at z=0.24431 is at lamda= 1928A								

Orbit Structure



Visit

Proposal 17093, Visit 02, scheduling Thu Nov 10 16:02:00 GMT 2022

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

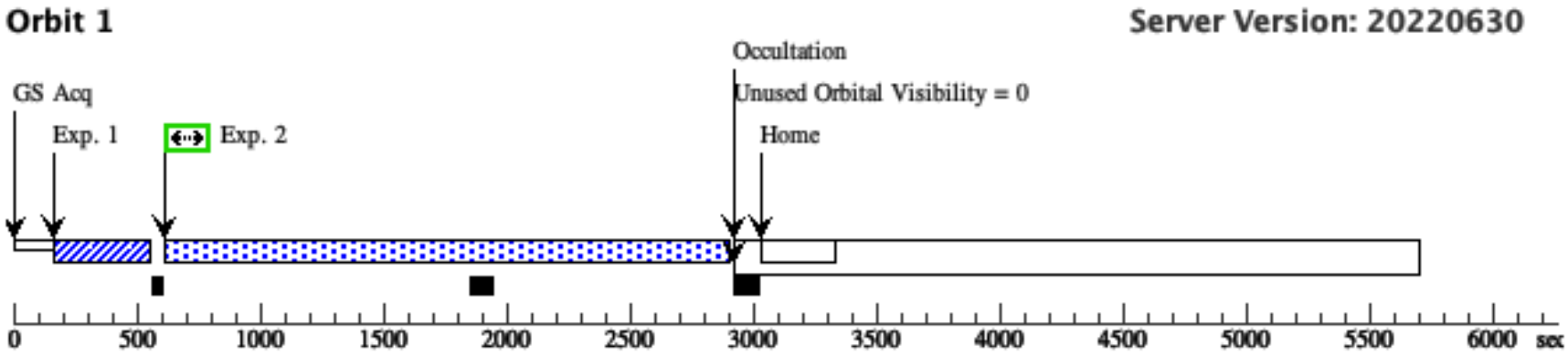
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	J094331.61+053131.4	RA: 09 43 31.6100 (145.8817083d) Dec: +05 31 31.40 (5.52539d) Equinox: J2000		V=17.1+/-0.1 GALEX FUV=18.21, NUV=17.91 mag	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811565)	(2) J094331.61+053131.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				48 Secs (48 Secs) *[==>]*	 ***[1]***
2	(1814376)	(2) J094331.61+053131.4	COS/NUV, TIME-TAG, PSA	G230L 3360 A	FLASH=YES; BUFFER-TIME=1141; FP-POS=1			2181 Secs (2181 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 17093, Visit 03, scheduling Thu Nov 10 16:02:00 GMT 2022

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

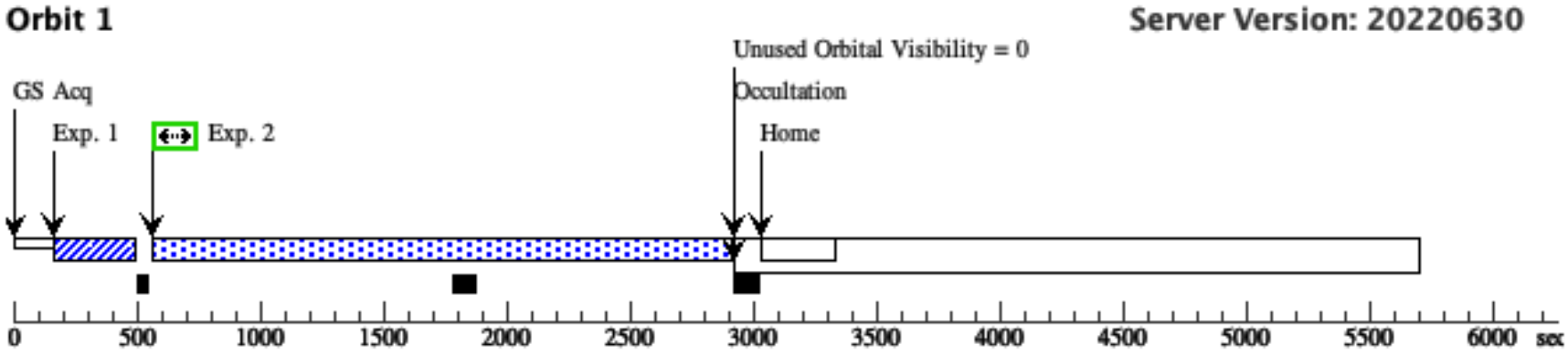
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	J100902.06+071343.8	RA: 10 09 2.0600 (152.2585833d) Dec: +07 13 43.80 (7.22883d) Equinox: J2000		V=17.1+/-0.1 GALEX FUV=18.09, NUV=17.45 mag	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811563)	(3) J100902.06+071343.8	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				19 Secs (19 Secs) *[==>]*	 ***[1]***
2	(1812458)	(3) J100902.06+071343.8	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1124; FP-POS=4; FLASH=YES			2239 Secs (2239 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 17093, Visit 04, scheduled Thu Nov 10 16:02:00 GMT 2022

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

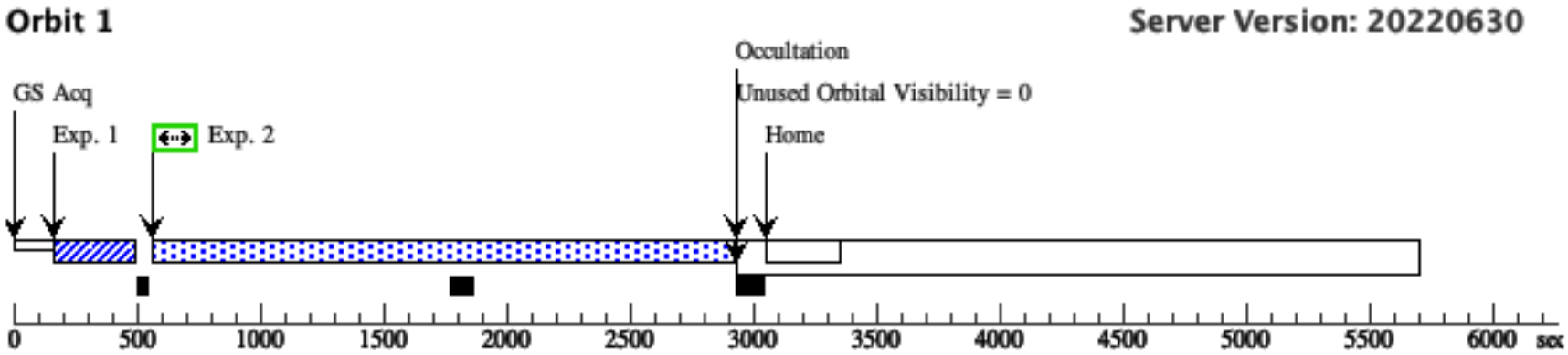
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	J101622.60+470643.3	RA: 10 16 22.6000 (154.0941667d) Dec: +47 06 43.30 (47.11203d) Equinox: J2000		V=17.1+/-0.1 GALEX FUV=17.99, NUV=17.39 mag	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811563)	(4) J101622.60+470643.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				19 Secs (19 Secs) *[==>]*	 ***[1]***
2	(1812459)	(4) J101622.60+470643.3	COS/NUV, TIME-TAG, PSA	G230L 2950 A	BUFFER-TIME=1123; FP-POS=3; FLASH=YES			2250 Secs (2250 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 17093, Visit 05, scheduled Thu Nov 10 16:02:00 GMT 2022

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

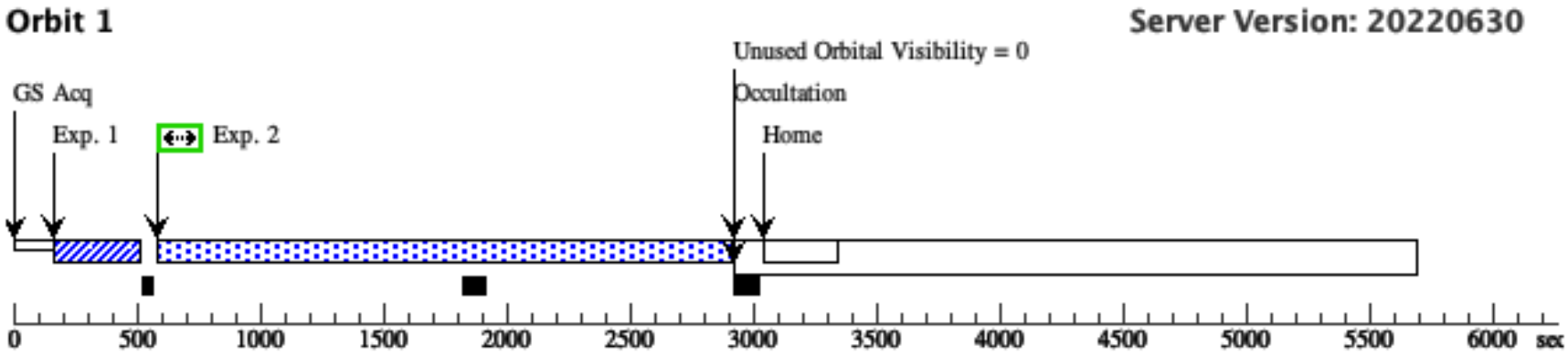
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	J111239.11+353928.2	RA: 11 12 39.1100 (168.1629583d) Dec: +35 39 28.20 (35.65783d) Equinox: J2000		V=17.7+/-0.1 GALEX FUV=18.36, NUV=17.78 mag	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811564)	(5) J111239.11+353928.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				30 Secs (30 Secs) *[==>]*	*[1]*
2	(1812461)	(5) J111239.11+353928.2	COS/NUV, TIME-TAG, PSA	G230L 2950 A	BUFFER-TIME=1142; FP-POS=3; FLASH=YES			2222 Secs (2222 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 17093, Visit 06, scheduling Thu Nov 10 16:02:00 GMT 2022

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

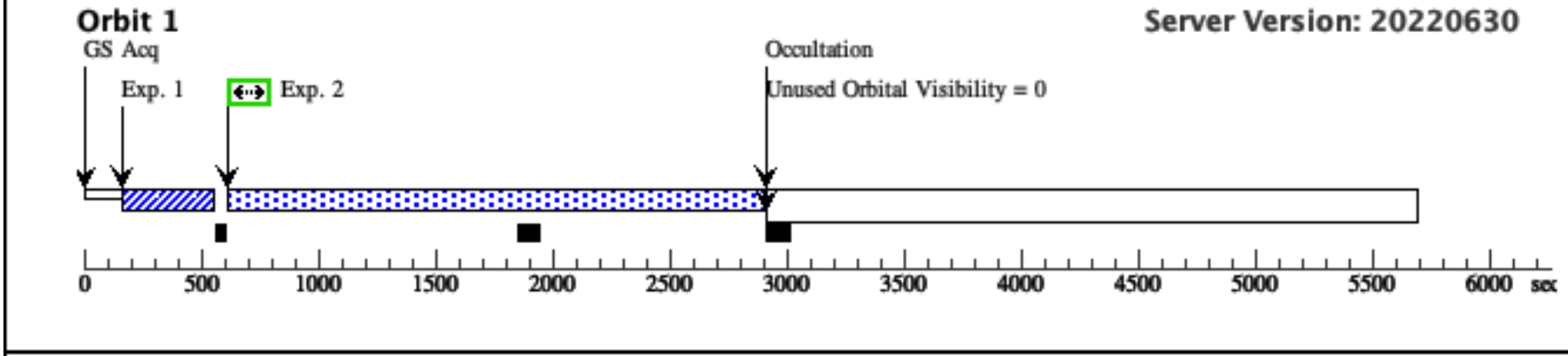
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	J123304.05-003134.1	RA: 12 33 4.0500 (188.2668750d) Dec: -00 31 34.10 (-.52614d) Equinox: J2000		V=17.7+/-0.1 GALEX FUV=18.30, NUV=18.00 mag	Reference Frame: ICRS

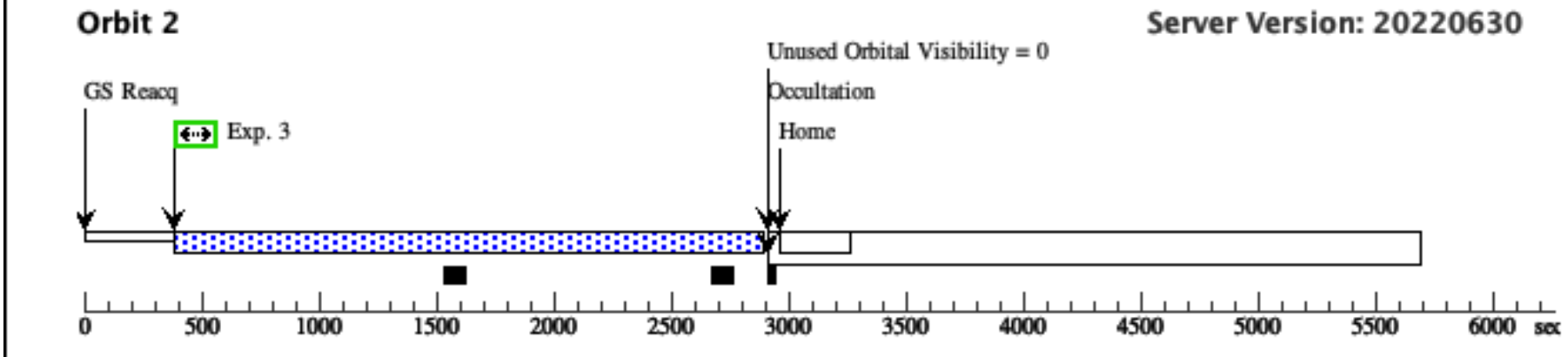
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811565)	(6) J123304.05-003134.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				48 Secs (48 Secs) *[==>]*	***[1]***
2	(1812496)	(6) J123304.05-003134.1	COS/NUV, TIME-TAG, PSA	G230L 3000 A	FLASH=YES; BUFFER-TIME=1142; FP-POS=3			2177 Secs (2177 Secs) *[==>]*	***[1]***
3	(1812496)	(6) J123304.05-003134.1	COS/NUV, TIME-TAG, PSA	G230L 3000 A	FLASH=YES; BUFFER-TIME=1142; FP-POS=4			2499 Secs (2499 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 17093, Visit 07, scheduling Thu Nov 10 16:02:00 GMT 2022

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

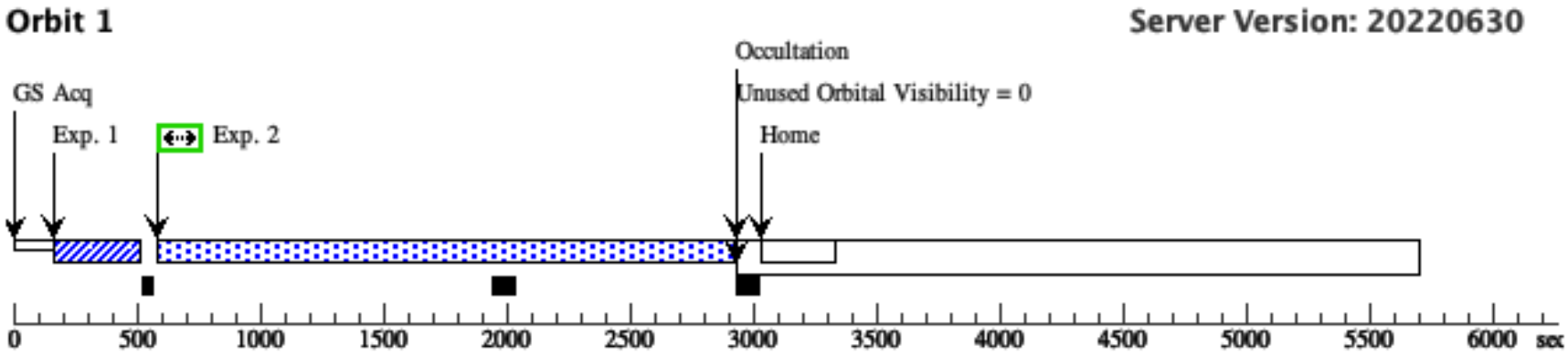
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	J123335.07+475800.4	RA: 12 33 35.0700 (188.3961250d) Dec: +47 58 0.40 (47.96678d) Equinox: J2000		V=17.3+/-0.1 GALEX FUV=18.02, NUV=17.60 mag	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811564)	(7) J123335.07+475800.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				30 Secs (30 Secs) *[==>]*	 ***[1]***
2	(1812497)	(7) J123335.07+475800.4	COS/NUV, TIME-TAG, PSA	G185M 1890 A	BUFFER-TIME=1178; FP-POS=3; FLASH=YES			2141 Secs (2141 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 17093, Visit 08, scheduled Thu Nov 10 16:02:00 GMT 2022

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

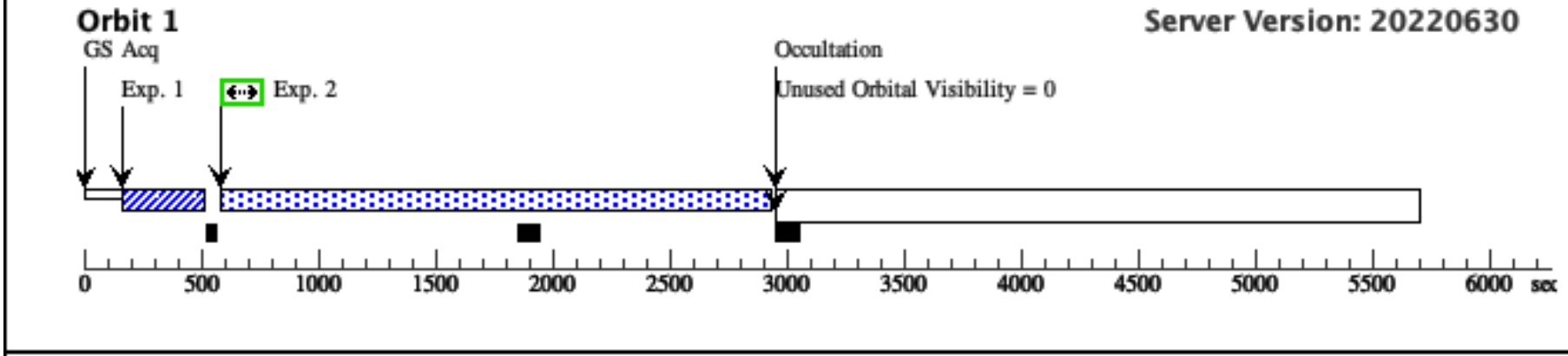
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	J124154.02+572107.3	RA: 12 41 54.0200 (190.4750833d) Dec: +57 21 7.30 (57.35203d) Equinox: J2000		V=17.5+/-0.1 GALEC FUV=18.56, NUV=17.98 mag	Reference Frame: ICRS

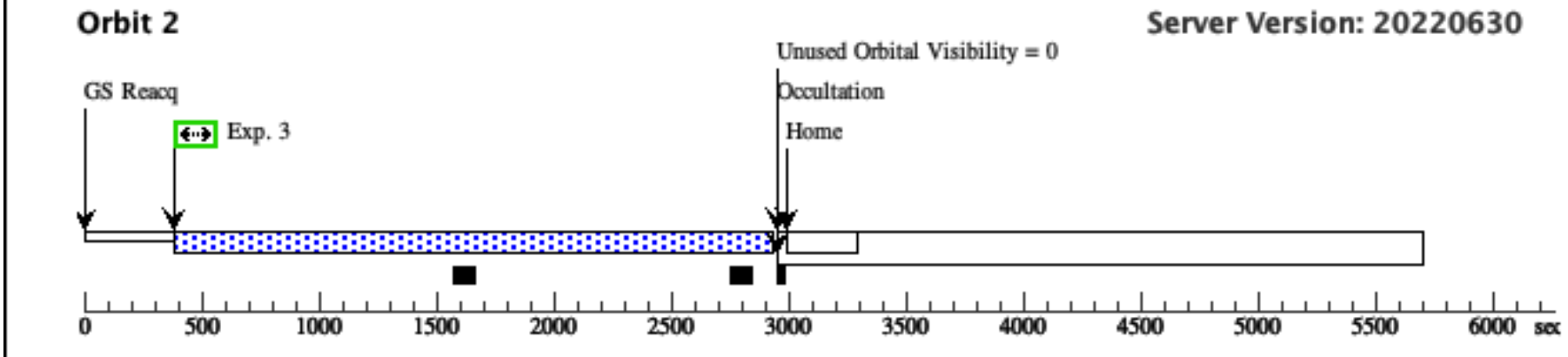
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811564)	(8) J124154.02+572107.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				30 Secs (30 Secs) *[==>]*	*[1]*
2	(1812502)	(8) J124154.02+572107.3	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FLASH=YES; BUFFER-TIME=1178; FP-POS=1			2245 Secs (2245 Secs) *[==>]*	*[1]*
3	(1812502)	(8) J124154.02+572107.3	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FLASH=YES; BUFFER-TIME=1178; FP-POS=2			2531 Secs (2531 Secs) *[==>]*	*[2]*

Orbit Structure





Visit

Proposal 17093, Visit 09, scheduled Thu Nov 10 16:02:00 GMT 2022

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

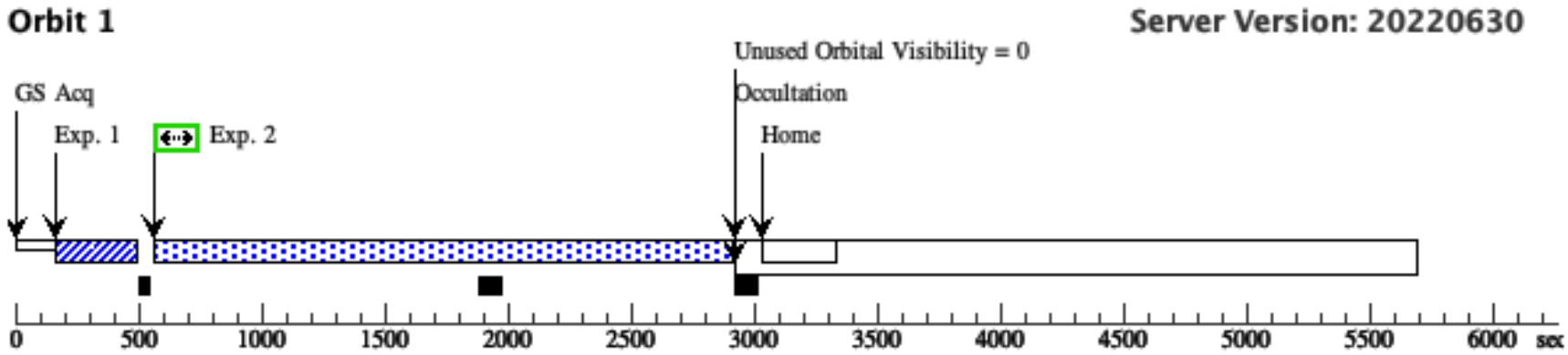
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	J124511.25+335610.1	RA: 12 45 11.2500 (191.2968750d) Dec: +33 56 10.10 (33.93614d) Equinox: J2000		V=16.9+/-0.1 GALEX FUV=18.43, NUV=17.32 mag	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811563)	(9) J124511.25+335610.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				19 Secs (19 Secs) *[==>]*	 ***[1]***
2	(1812503)	(9) J124511.25+335610.1	COS/NUV, TIME-TAG, PSA	G185M 1941 A	BUFFER-TIME=1144; FP-POS=3; FLASH=YES			2157 Secs (2157 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 17093, Visit 10, scheduling Thu Nov 10 16:02:00 GMT 2022

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

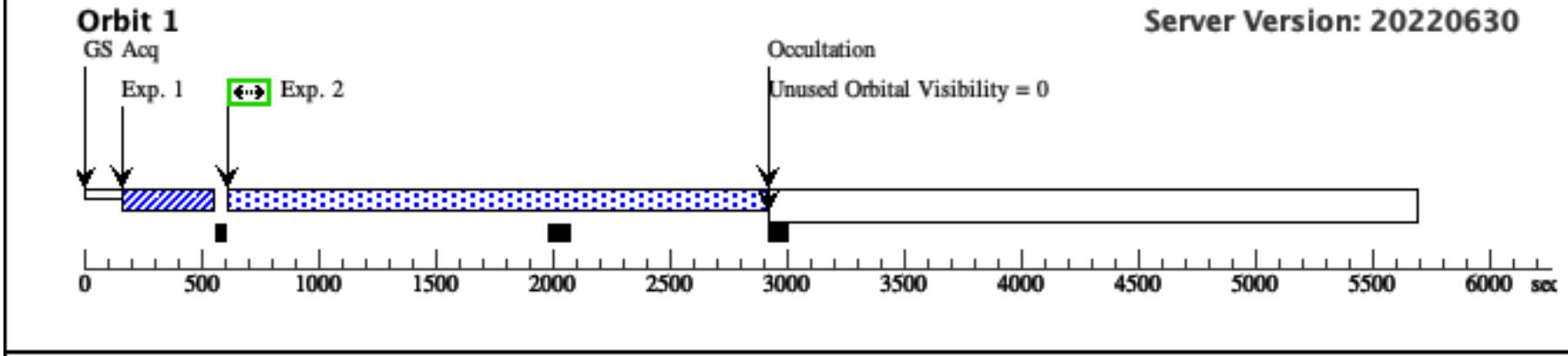
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(10)	J133045.15+281321.4	RA: 13 30 45.1500 (202.6881250d) Dec: +28 13 21.40 (28.22261d) Equinox: J2000		V=17.7+/-0.1 GALEX FUV=18.32, NUV=18.20 mag	Reference Frame: ICRS

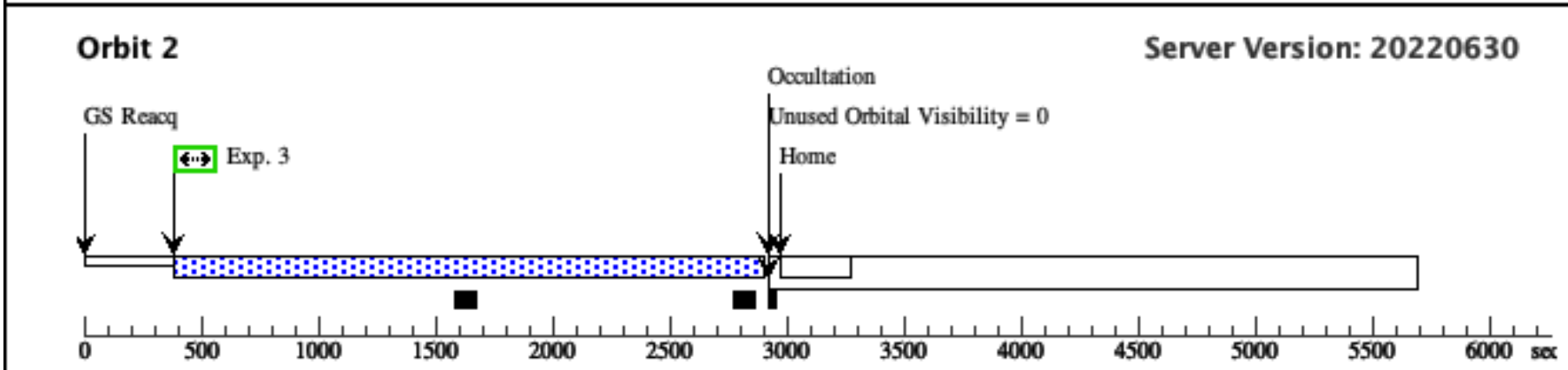
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811565)	(10) J133045.15+281321.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				48 Secs (48 Secs) *[==>]*	***[1]***
2	(1812504)	(10) J133045.15+281321.4	COS/NUV, TIME-TAG, PSA	G185M 1941 A	FLASH=YES; BUFFER-TIME=1188; FP-POS=3			2100 Secs (2100 Secs) *[==>]*	***[1]***
3	(1812504)	(10) J133045.15+281321.4	COS/NUV, TIME-TAG, PSA	G185M 1941 A	FLASH=YES; BUFFER-TIME=1188; FP-POS=4			2509 Secs (2509 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 17093, Visit 12, scheduling Thu Nov 10 16:02:00 GMT 2022

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

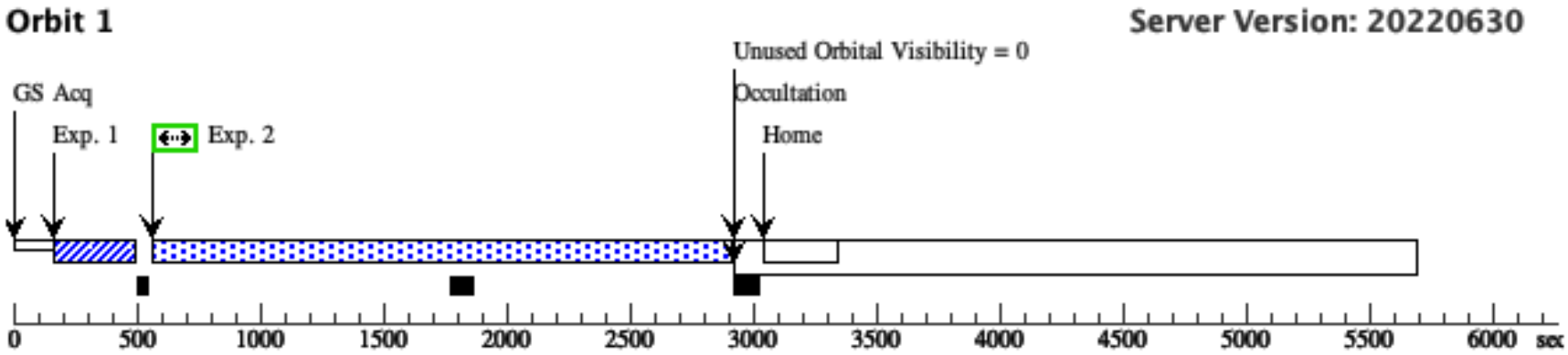
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(12)	J143511.53+360437.2	RA: 14 35 11.5300 (218.7980417d) Dec: +36 04 37.20 (36.07700d) Equinox: J2000		V=16.9+/-0.1 GALEX FUV=17.83, NUV=17.37 mag	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811563)	(12) J143511.53+360437.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				19 Secs (19 Secs) *[==>]*	 ***[1]***
2	(1812505)	(12) J143511.53+360437.2	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FLASH=YES; BUFFER-TIME=1123; FP-POS=3			2244 Secs (2244 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 17093, Visit 13, scheduling Thu Nov 10 16:02:00 GMT 2022

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

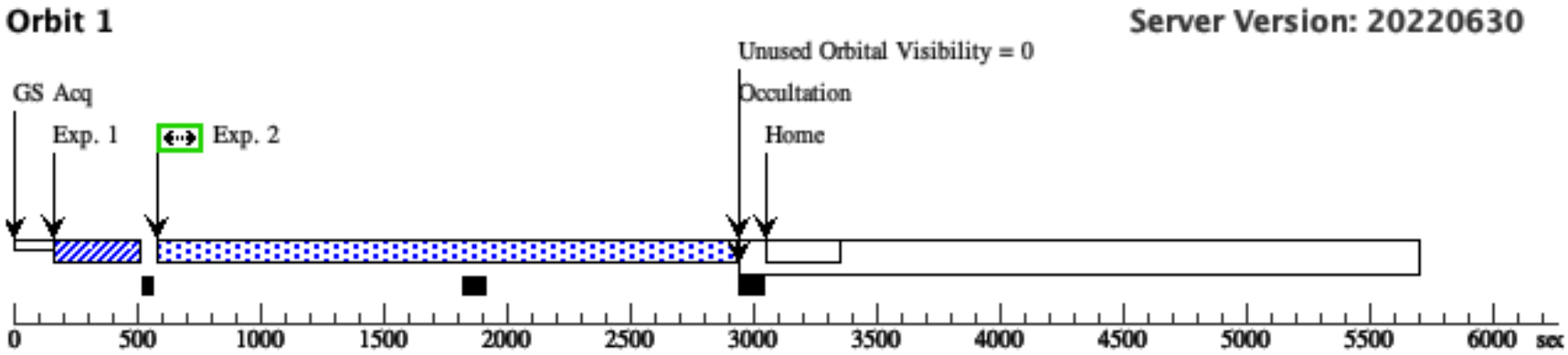
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(13)	J143726.14+504555.8	RA: 14 37 26.1400 (219.3589167d) Dec: +50 45 55.80 (50.76550d) Equinox: J2000		V=17.5+/-0.1 GALEX FUV=18.83, NUV=17.89 mag	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811564)	(13) J143726.14+504555.8	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				30 Secs (30 Secs) *[==>]*	 ***[1]***
2	(1812506)	(13) J143726.14+504555.8	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FLASH=YES; BUFFER-TIME=1146; FP-POS=3			2237 Secs (2237 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 17093, Visit 14, scheduling Thu Nov 10 16:02:00 GMT 2022

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

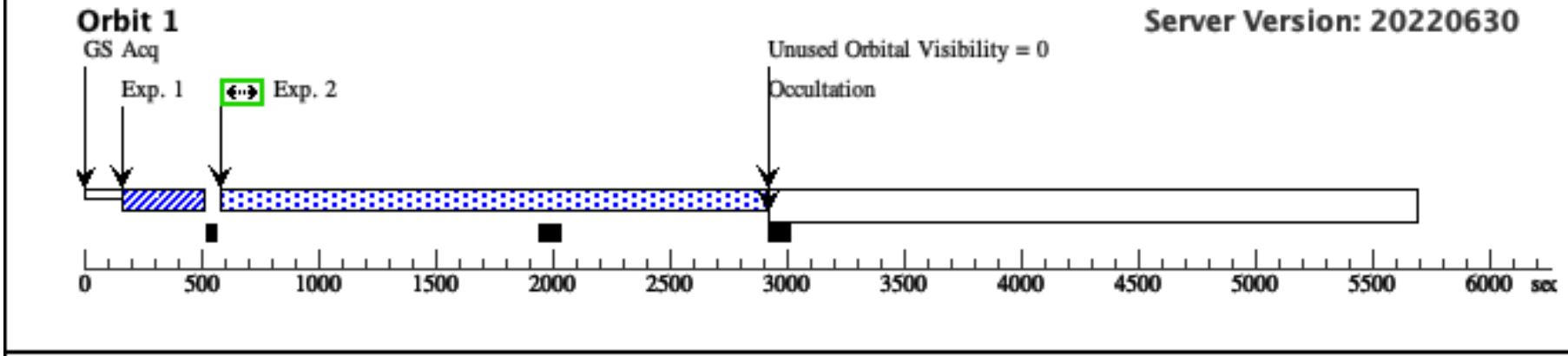
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(14)	J144511.28+342825.4	RA: 14 45 11.2800 (221.2970000d) Dec: +34 28 25.40 (34.47372d) Equinox: J2000		V=17.4+/-0.1 GALEX FUV=18.49, NUV=17.72 mag	Reference Frame: ICRS

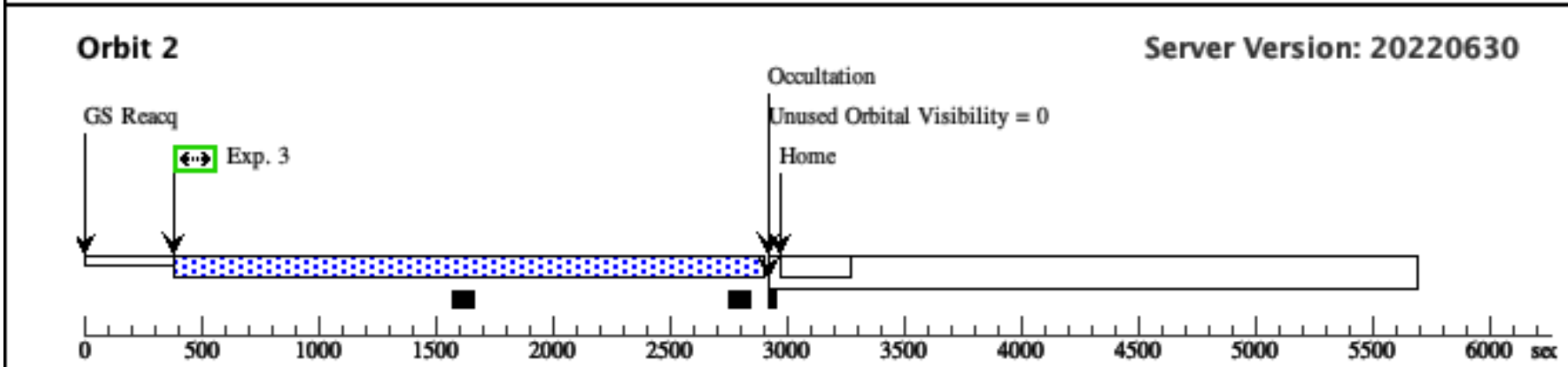
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811564)	(14) J144511.28+342825.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				30 Secs (30 Secs) *[==>]*	*[1]*
2	(1812507)	(14) J144511.28+342825.4	COS/NUV, TIME-TAG, PSA	G185M 1986 A	FLASH=YES; BUFFER-TIME=1180; FP-POS=1			2135 Secs (2135 Secs) *[==>]*	*[1]*
3	(1812507)	(14) J144511.28+342825.4	COS/NUV, TIME-TAG, PSA	G185M 1986 A	FLASH=YES; BUFFER-TIME=1180; FP-POS=2			2508 Secs (2508 Secs) *[==>]*	*[2]*

Orbit Structure





Visit

Proposal 17093, Visit 15, scheduling Thu Nov 10 16:02:01 GMT 2022

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

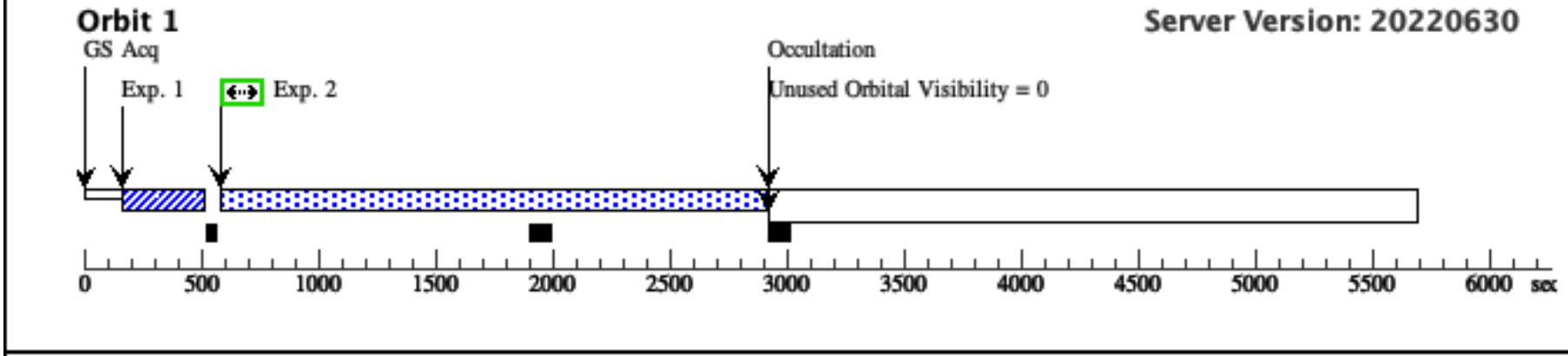
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(15)	J151428.64+361957.9	RA: 15 14 28.6400 (228.6193333d) Dec: +36 19 57.90 (36.33275d) Equinox: J2000		V=17.7+/-0.1 GALEX FUV=18.53, NUV=17.90 mag	Reference Frame: ICRS

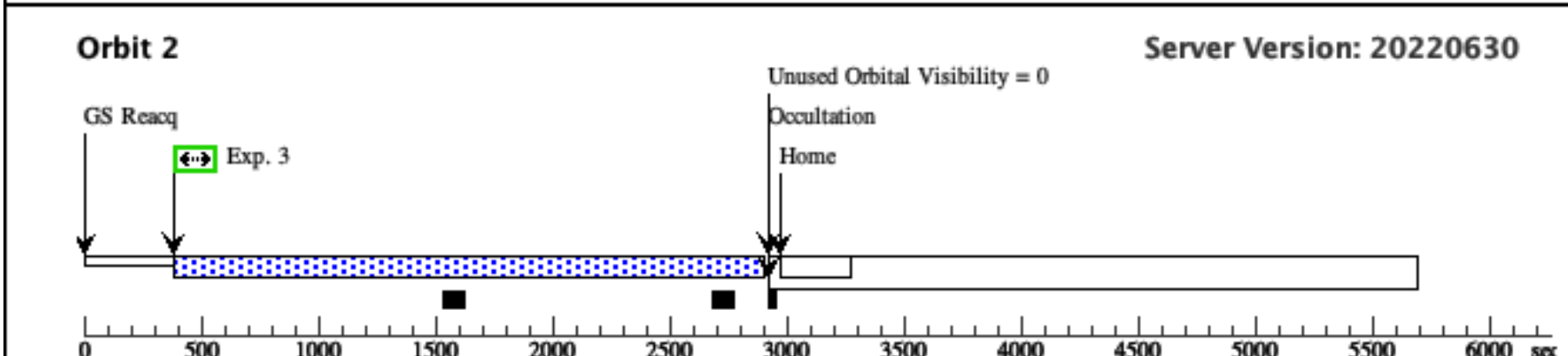
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811564)	(15) J151428.64+361957.9	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				30 Secs (30 Secs) *[==>]*	 ***[1]***
2	(1812508)	(15) J151428.64+361957.9	COS/NUV, TIME-TAG, PSA	G185M 1971 A	FLASH=YES; BUFFER-TIME=1144; FP-POS=3			2135 Secs (2135 Secs) *[==>]*	 ***[1]***
3	(1812508)	(15) J151428.64+361957.9	COS/NUV, TIME-TAG, PSA	G185M 1971 A	FLASH=YES; BUFFER-TIME=1144; FP-POS=4			2508 Secs (2508 Secs) *[==>]*	 ***[2]***

Orbit Structure





Visit

Proposal 17093, Visit 16, scheduled Thu Nov 10 16:02:01 GMT 2022

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

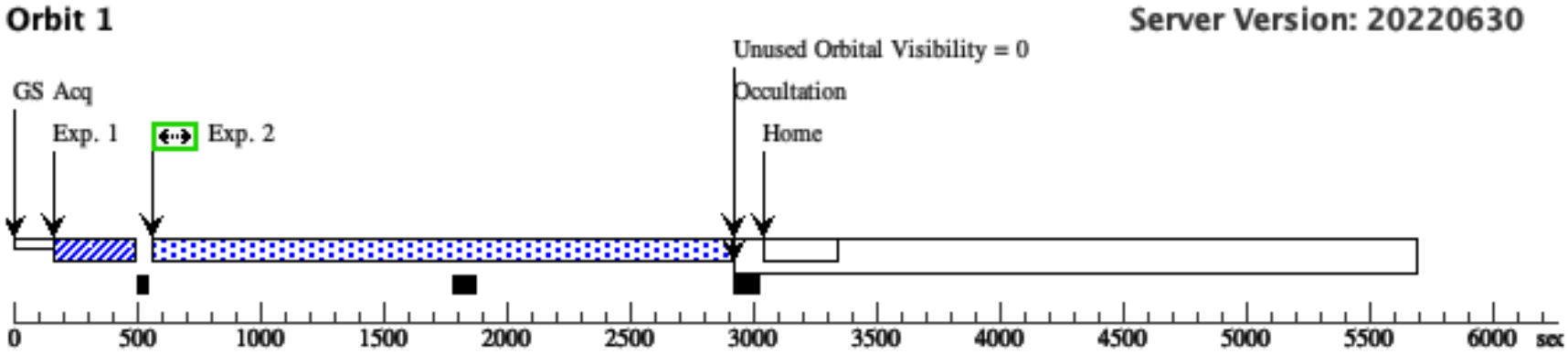
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(16)	J155048.29+400144.9	RA: 15 50 48.2900 (237.7012083d) Dec: +40 01 44.90 (40.02914d) Equinox: J2000		V=17.1+/-0.1 GLAEX FUV=18.00, NUV=17.45 mag	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811563)	(16) J155048.29+400144.9	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				19 Secs (19 Secs) *[==>]*	 ***[1]***
2	(1812509)	(16) J155048.29+400144.9	COS/NUV, TIME-TAG, PSA	G230L 3000 A	FLASH=YES; BUFFER-TIME=1125; FP-POS=3			2246 Secs (2246 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 17093, Visit 17, scheduled Thu Nov 10 16:02:01 GMT 2022

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

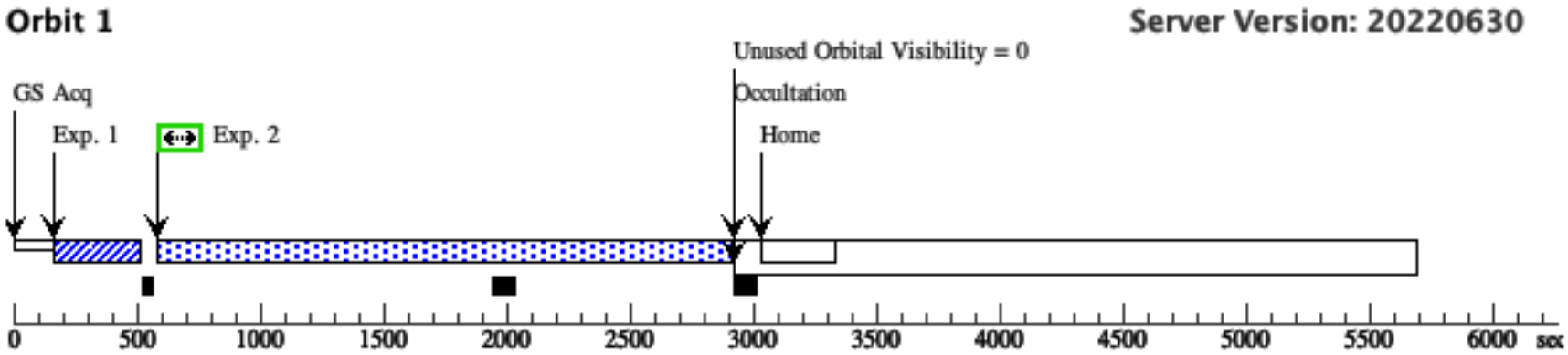
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(17)	J155504.39+362848.0	RA: 15 55 4.3900 (238.7682917d) Dec: +36 28 48.00 (36.48000d) Equinox: J2000		V=17.8+/-0.1 GALEX FUV=18.45, NUV=17.95 mag	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811564)	(17) J155504.39+362848.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				30 Secs (30 Secs) *[==>]*	 ***[1]***
2	(1812510)	(17) J155504.39+362848.0	COS/NUV, TIME-TAG, PSA	G185M 1941 A	BUFFER-TIME=1182; FP-POS=3; FLASH=YES			2135 Secs (2135 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 17093, Visit 18, scheduling Thu Nov 10 16:02:01 GMT 2022

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

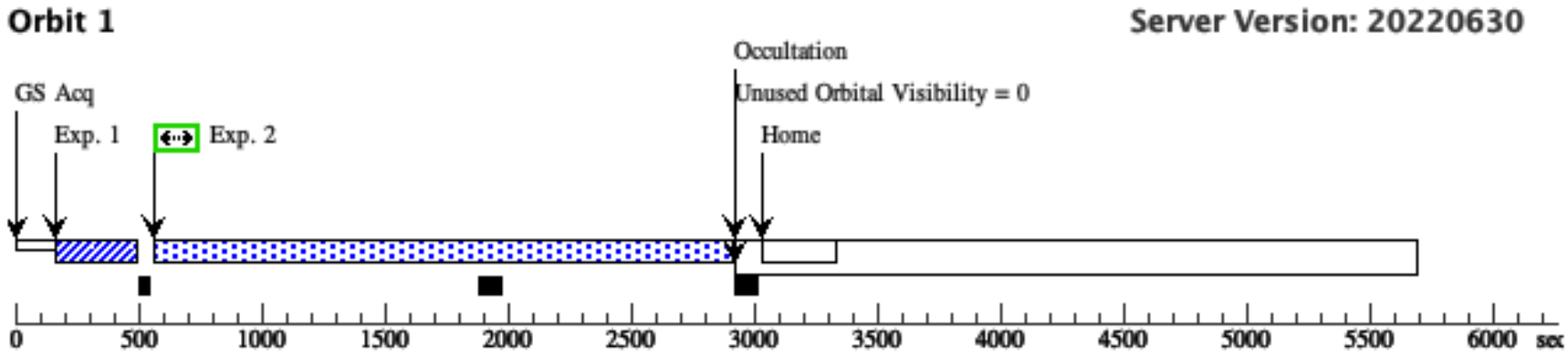
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(18)	J161916.54+334238.4	RA: 16 19 16.5400 (244.8189167d) Dec: +33 42 38.40 (33.71067d) Equinox: J2000		V=17.0+/-0.1 GALEX FUV=18.57, NUV=16.94 mag	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811563)	(18) J161916.54+334238.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				19 Secs (19 Secs) *[==>]*	*[1]*
2	(1812513)	(18) J161916.54+334238.4	COS/NUV, TIME-TAG, PSA	G185M 1864 A	BUFFER-TIME=1144; FP-POS=3; FLASH=YES			2157 Secs (2157 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 17093, Visit 19, implementation Thu Nov 10 16:02:01 GMT 2022

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 19) 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. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.

Fixed Targets

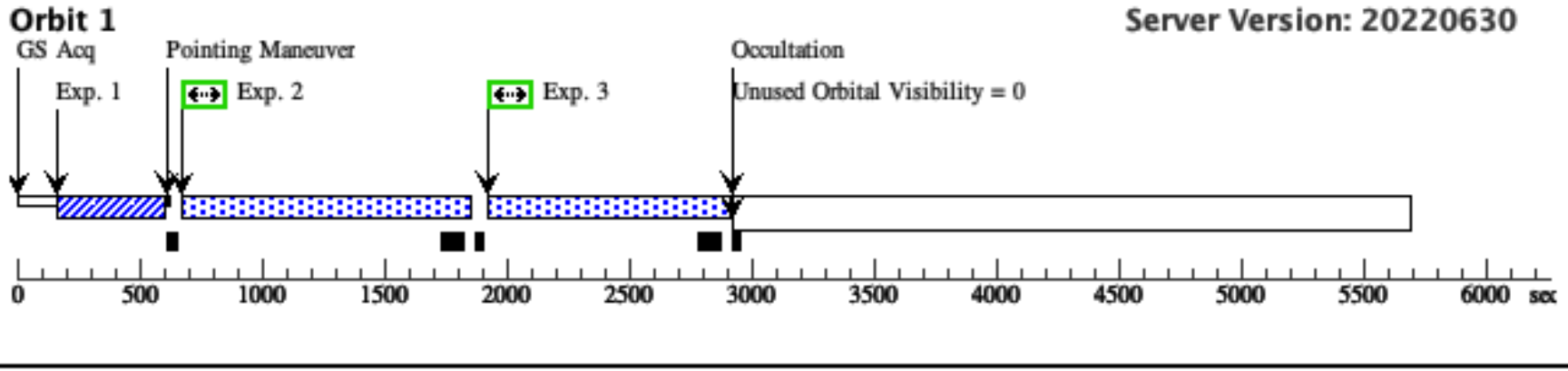
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(19)	J143443.68+200524.4	RA: 14 34 43.6800 (218.6820000d) Dec: +20 05 24.40 (20.09011d) Equinox: J2000		V=18.2+/-0.1 GALEX FUV=18.83, NUV=18.75 mag	Reference Frame: ICRS

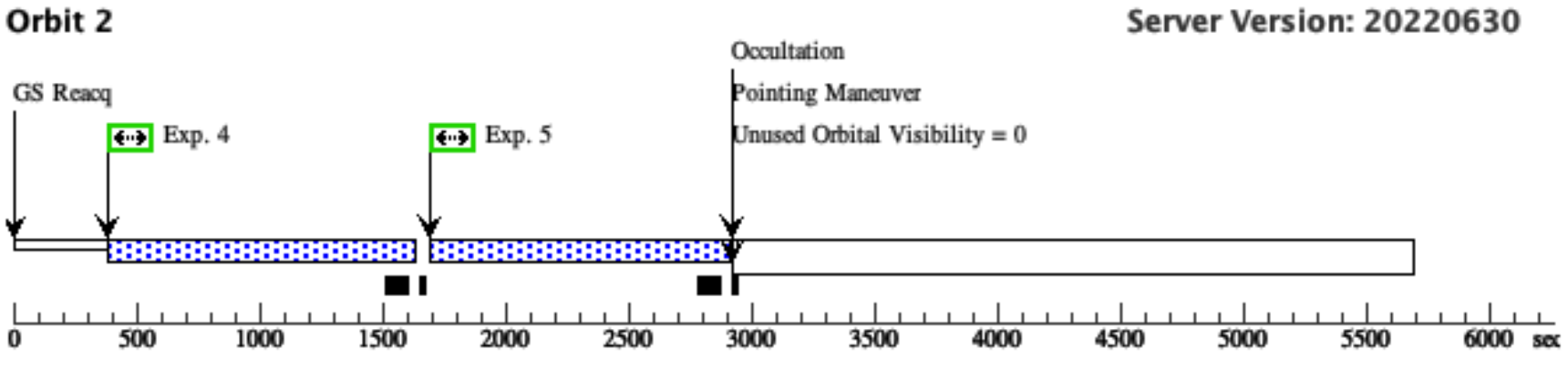
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

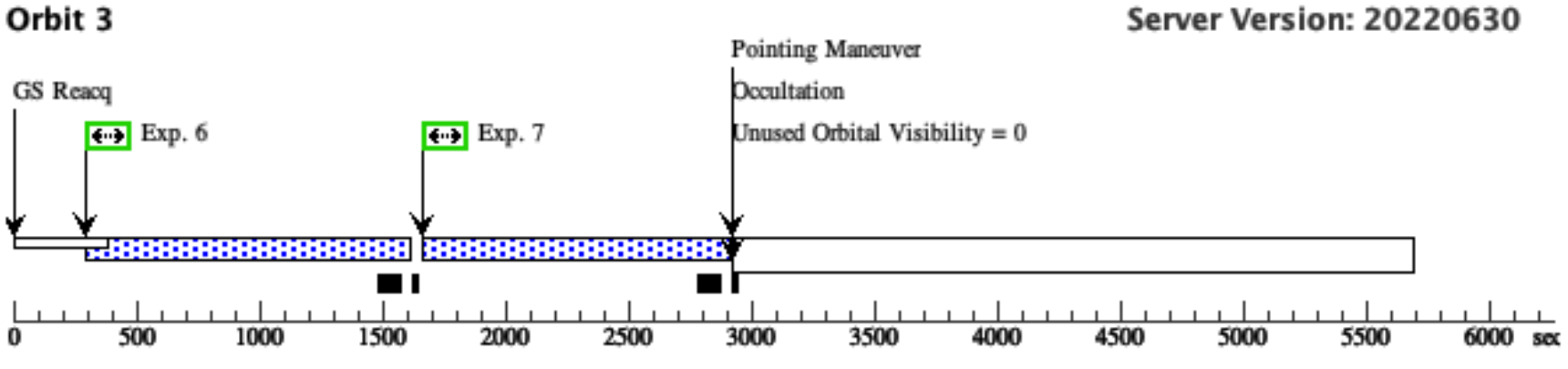
Exposures

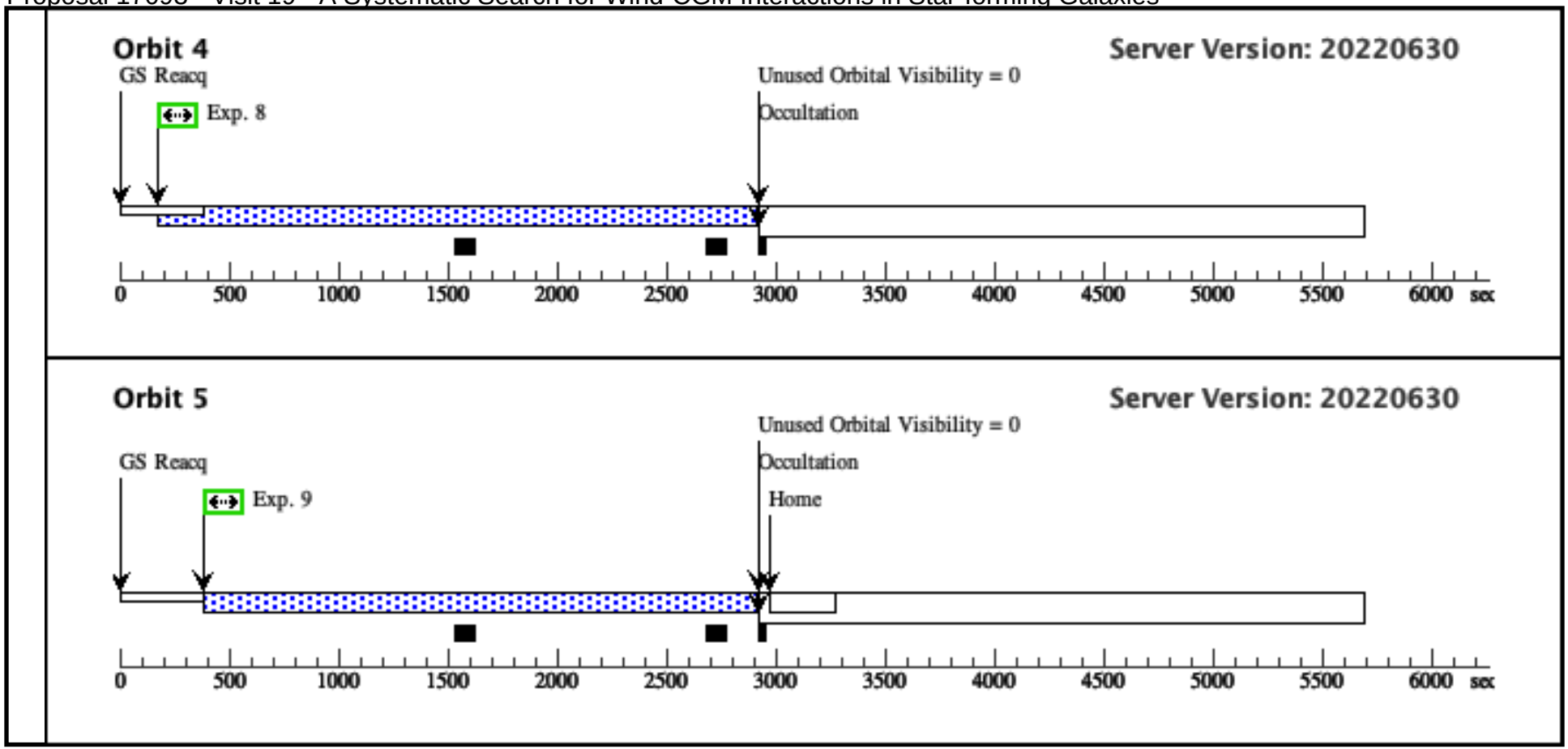
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811566)	(19) J143443.68+200524.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				76 Secs (76 Secs)	
								[==>]	***[1]***
2	(1812745)	(19) J143443.68+200524.4	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FLASH=YES; FP-POS=1; BUFFER-TIME=8900; LIFETIME-POS=LP4			1000 Secs (1000 Secs)	
								[==>]	***[1]***
3	(1812745)	(19) J143443.68+200524.4	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FLASH=YES; FP-POS=2; BUFFER-TIME=832; LIFETIME-POS=LP4			942 Secs (942 Secs)	
								[==>]	***[1]***
4	(1812745)	(19) J143443.68+200524.4	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=1090; FP-POS=3; FLASH=YES; LIFETIME-POS=LP4			1200 Secs (1200 Secs)	
								[==>]	***[2]***
5	(1812745)	(19) J143443.68+200524.4	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=1058; FP-POS=4; FLASH=YES; LIFETIME-POS=LP4			1168 Secs (1168 Secs)	
								[==>]	***[2]***
6	(1831295)	(19) J143443.68+200524.4	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=1058; FP-POS=3; FLASH=YES; LIFETIME-POS=LP5			1168 Secs (1168 Secs)	
								[==>]	***[3]***
7	(1831295)	(19) J143443.68+200524.4	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=1090; FP-POS=4; FLASH=YES; LIFETIME-POS=LP5			1200 Secs (1200 Secs)	
								[==>]	***[3]***
8	(1812701)	(19) J143443.68+200524.4	COS/NUV, TIME-TAG, PSA	G230L 2950 A	BUFFER-TIME=1144; FP-POS=1			2508 Secs (2508 Secs)	
								[==>]	***[4]***
9	(1812701)	(19) J143443.68+200524.4	COS/NUV, TIME-TAG, PSA	G230L 2950 A	BUFFER-TIME=1144; FP-POS=2			2510 Secs (2510 Secs)	
								[==>]	***[5]***

Orbit Structure





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5500
6000
sec
Orbit 5
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Unused Orbital Visibility = 0
GS Reacq
Occultation
Exp. 9
Home
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500
1000
1500
2000
2500
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3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 17093, Visit 20, scheduling Thu Nov 10 16:02:01 GMT 2022

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 20) 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. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.

Fixed Targets

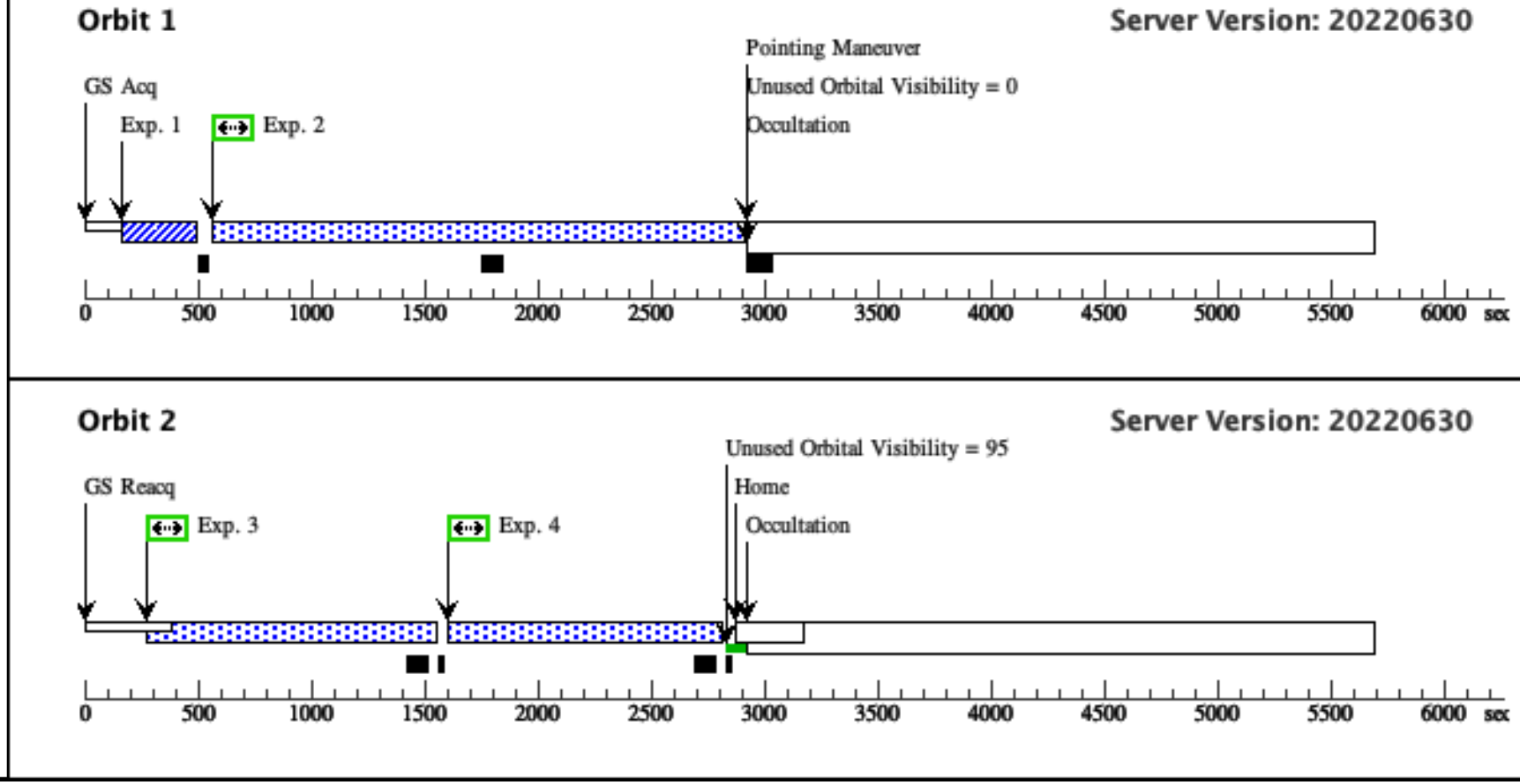
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(20)	J005709.94+144610.1	RA: 00 57 9.9400 (14.2914167d) Dec: +14 46 10.10 (14.76947d) Equinox: J2000		V=16.0+/-0.1 GALEX FUV=17.24, NUV=16.99 mag	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811563)	(20) J005709.94+144610.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				19 Secs (19 Secs) *[==>]*	***[1]***
2	(1812680)	(20) J005709.94+144610.1	COS/NUV, TIME-TAG, PSA	G230L 2950 A	BUFFER-TIME=1100; FP-POS=3; FLASH=YES			2244 Secs (2244 Secs) *[==>]*	***[1]***
3	(1812819)	(20) J005709.94+144610.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=1000; FP-POS=3; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			1110 Secs (1110 Secs) *[==>]*	***[2]***
4	(1812819)	(20) J005709.94+144610.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=1049; FP-POS=4; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			1159 Secs (1159 Secs) *[==>]*	***[2]***

Orbit Structure



Visit

Proposal 17093, Visit 21, implementation Thu Nov 10 16:02:01 GMT 2022

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 21) 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. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.

Fixed Targets

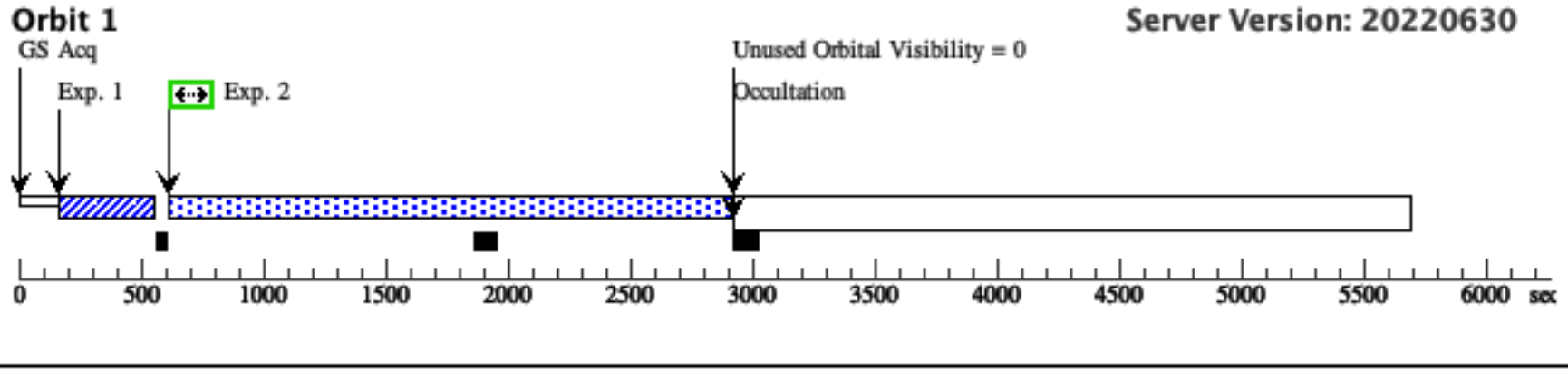
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(21)	J122503.21+162406.7	RA: 12 25 3.2100 (186.2633750d) Dec: +16 24 6.70 (16.40186d) Equinox: J2000		V=18.0+/-0.1 GALEX FUV=18.84, NUV=18.11 mag	Reference Frame: ICRS

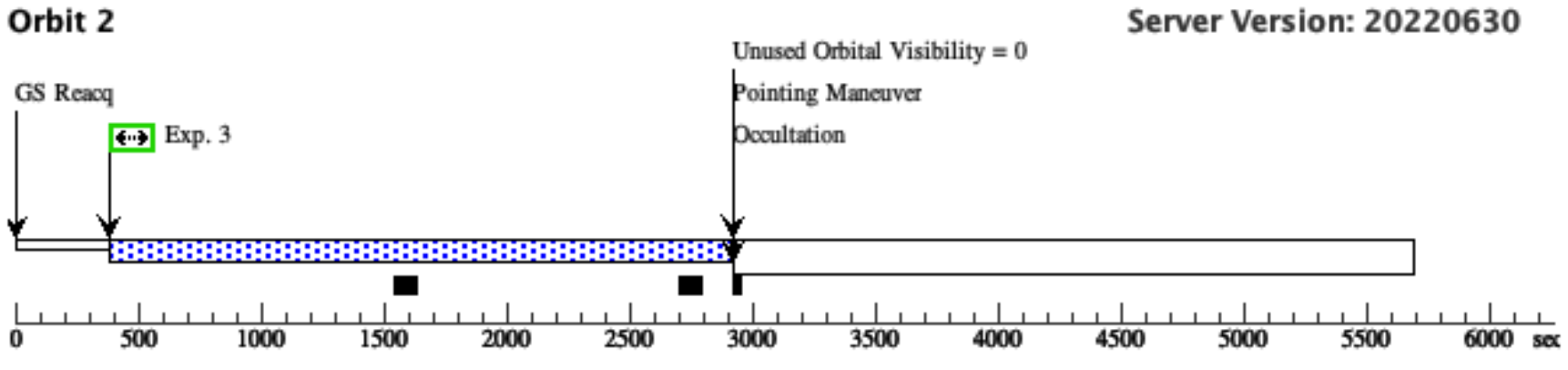
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

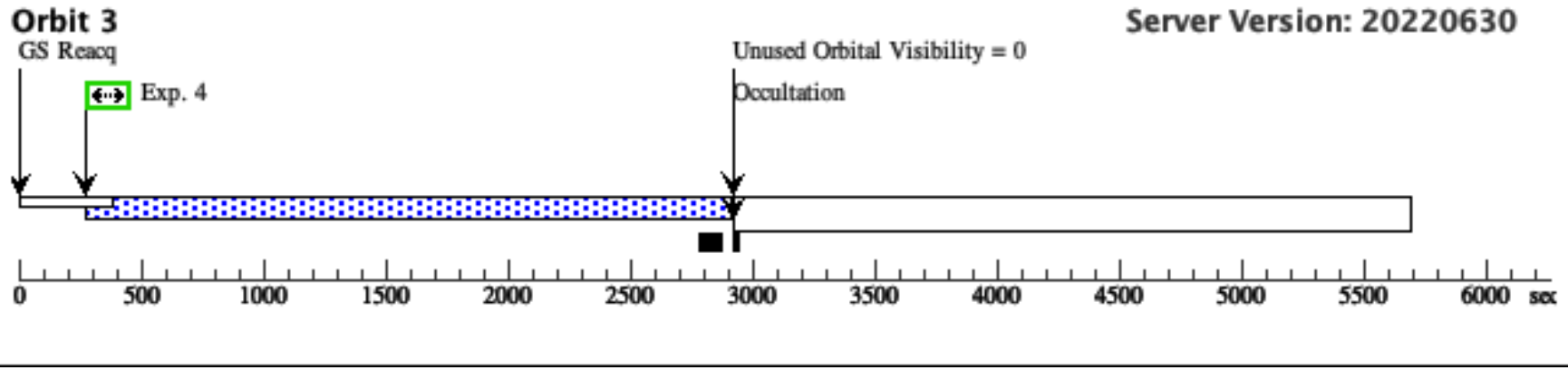
Exposures

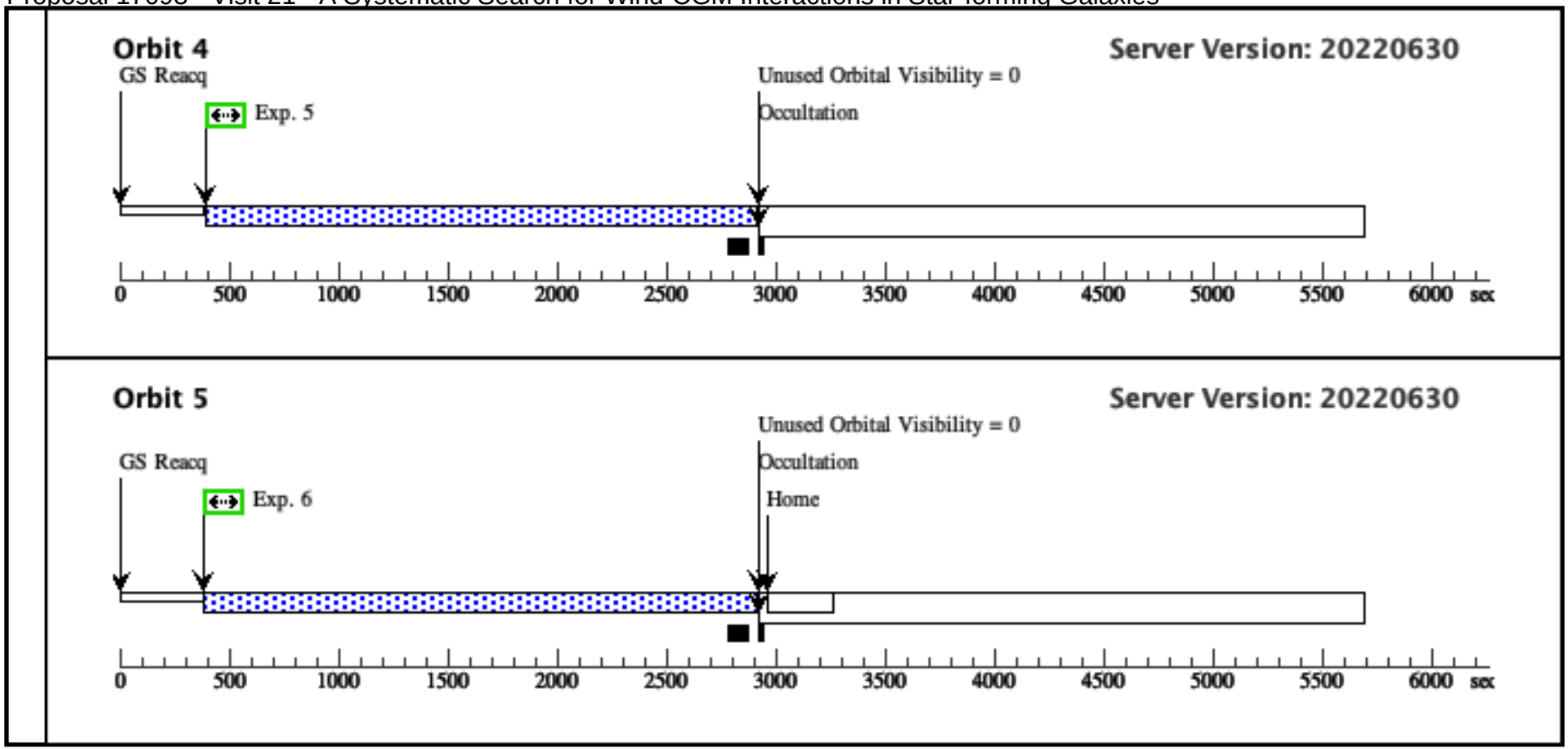
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811565)	(21) J122503.21+162406.7	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				48 Secs (48 Secs) *[==>]*	*[1]*
2	(1812676)	(21) J122503.21+162406.7	COS/NUV, TIME-TAG, PSA	G230L 2950 A	BUFFER-TIME=1154; FP-POS=2; FLASH=YES			2188 Secs (2188 Secs) *[==>]*	*[1]*
3	(1812676)	(21) J122503.21+162406.7	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=3; BUFFER-TIME=1154; FLASH=YES			2510 Secs (2510 Secs) *[==>]*	*[2]*
4	(1812820)	(21) J122503.21+162406.7	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2361; FP-POS=3; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2471 Secs (2471 Secs) *[==>]*	*[3]*
5	(1812820)	(21) J122503.21+162406.7	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2363; FP-POS=3; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2473 Secs (2473 Secs) *[==>]*	*[4]*
6	(1812820)	(21) J122503.21+162406.7	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2363; FP-POS=4; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2473 Secs (2473 Secs) *[==>]*	*[5]*

Orbit Structure








Orbit 4
Server Version: 20220630
GS Reacq
Exp. 5
Unused Orbital Visibility = 0
Occultation
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1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec
Orbit 5
Server Version: 20220630
GS Reacq
Exp. 6
Unused Orbital Visibility = 0
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Proposal 17093 - Visit 22 - A Systematic Search for Wind-CGM Interactions in Star-forming Galaxies

Visit

Proposal 17093, Visit 22, implementation Thu Nov 10 16:02:01 GMT 2022

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 22) 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. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.

Fixed Targets

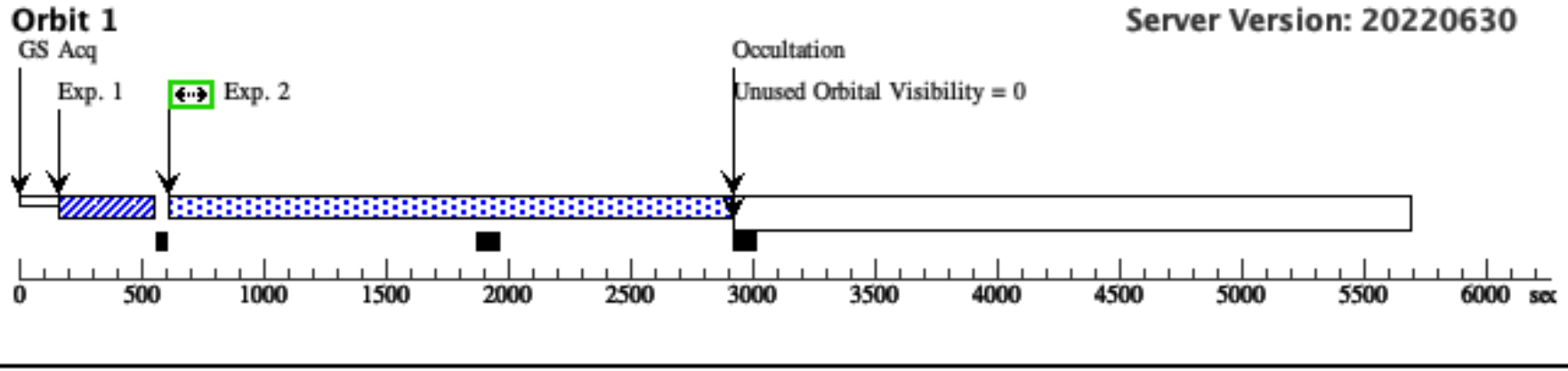
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(22)	J122039.35+171820.7	RA: 12 20 39.3500 (185.1639583d) Dec: +17 18 20.70 (17.30575d) Equinox: J2000		V=18.2+/-0.1 GALEX FUV=18.79, NUV=18.43 mag	Reference Frame: ICRS

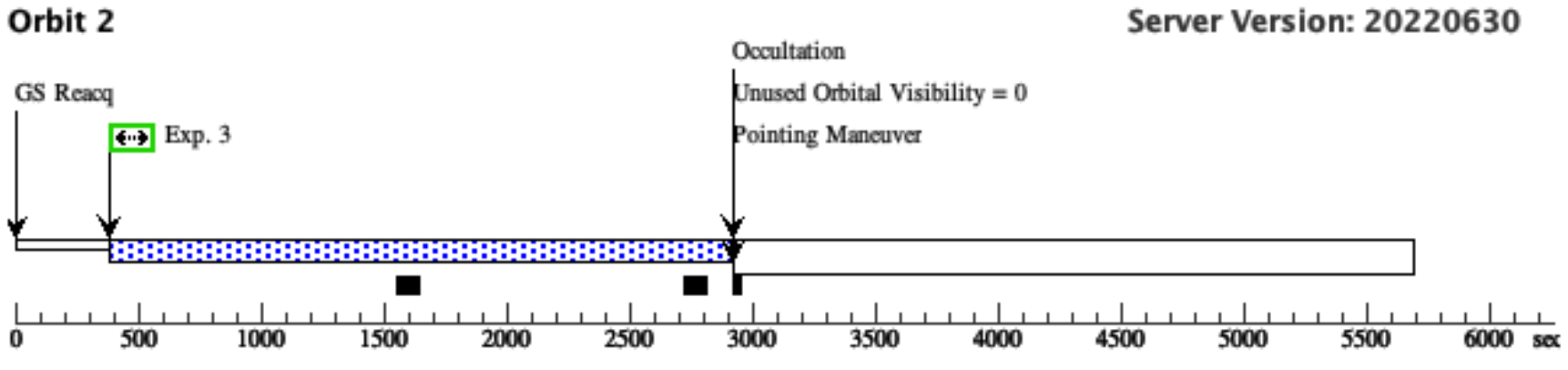
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

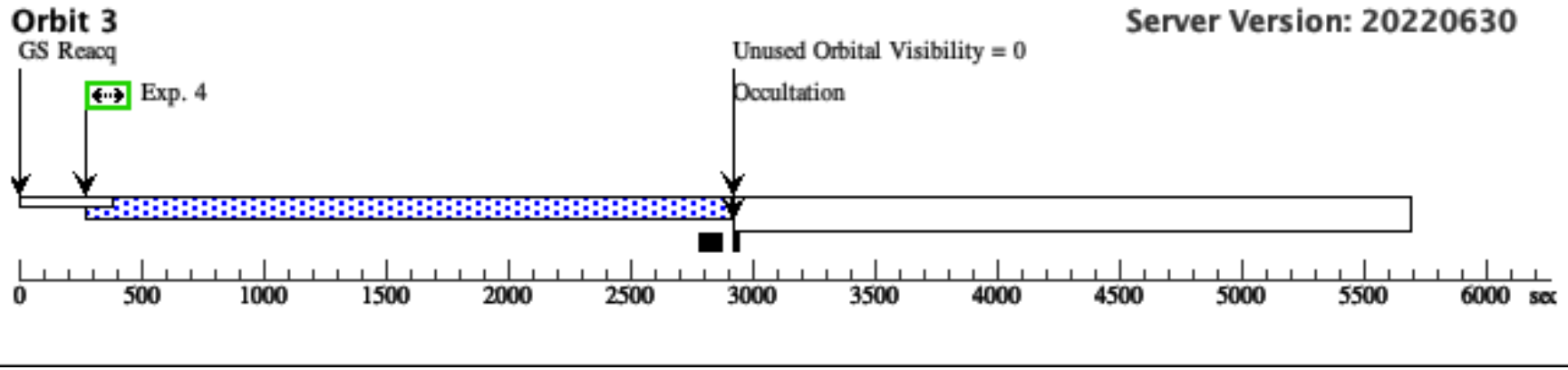
Exposures

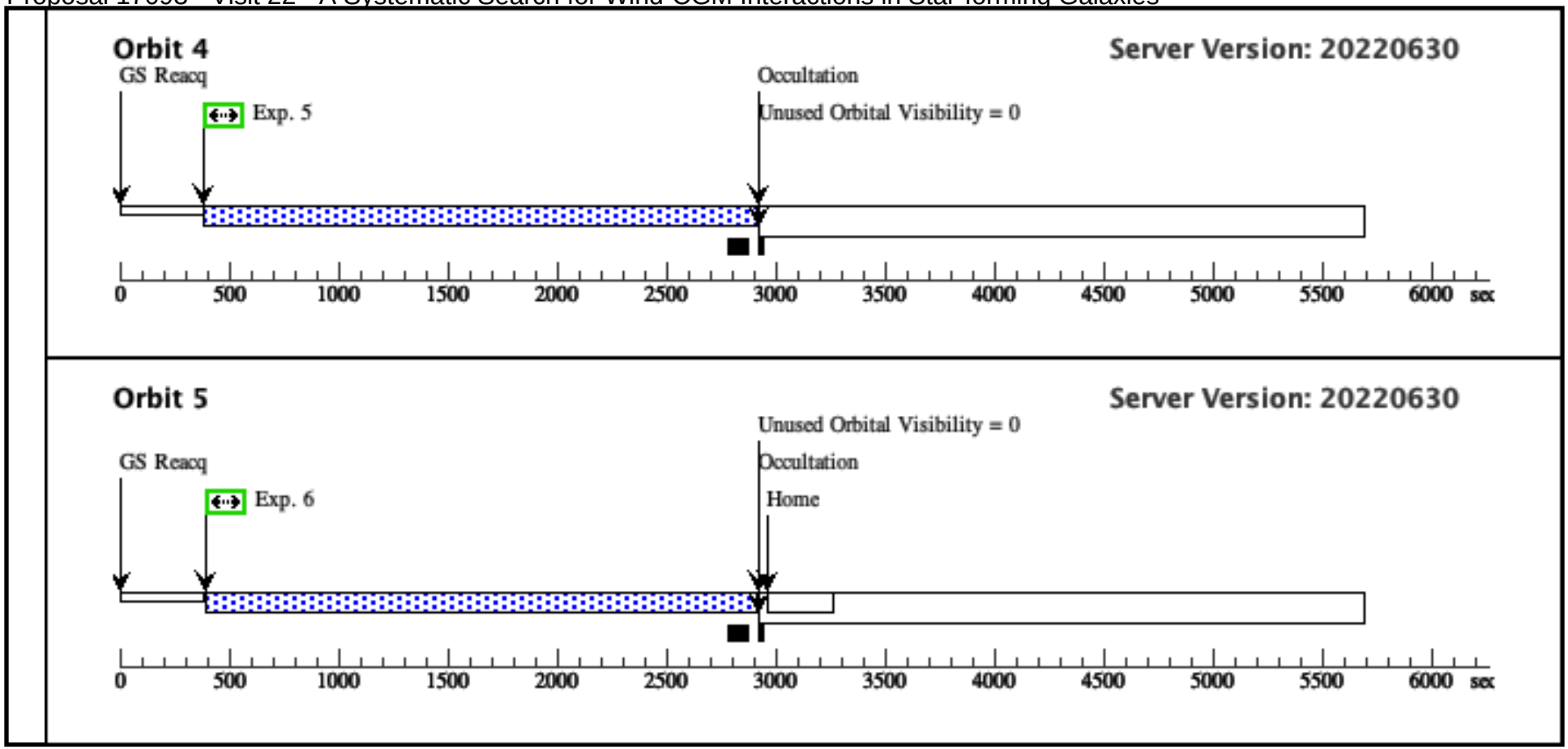
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811565)	(22) J122039.35+171820.7	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				48 Secs (48 Secs) *[==>]*	*[1]*
2	(1812677)	(22) J122039.35+171820.7	COS/NUV, TIME-TAG, PSA	G230L 2950 A	BUFFER-TIME=1163; FP-POS=3; FLASH=YES			2188 Secs (2188 Secs) *[==>]*	*[1]*
3	(1812677)	(22) J122039.35+171820.7	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=4; BUFFER-TIME=1163; FLASH=YES			2510 Secs (2510 Secs) *[==>]*	*[2]*
4	(1812820)	(22) J122039.35+171820.7	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2361; FP-POS=3; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2471 Secs (2471 Secs) *[==>]*	*[3]*
5	(1812820)	(22) J122039.35+171820.7	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2363; FP-POS=4; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2473 Secs (2473 Secs) *[==>]*	*[4]*
6	(1812820)	(22) J122039.35+171820.7	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2363; FP-POS=4; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2473 Secs (2473 Secs) *[==>]*	*[5]*

Orbit Structure








Orbit 4
Server Version: 20220630
GS Reacq
Exp. 5
Occultation
Unused Orbital Visibility = 0
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1000
1500
2000
2500
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3500
4000
4500
5000
5500
6000
sec
Orbit 5
Server Version: 20220630
Unused Orbital Visibility = 0
GS Reacq
Exp. 6
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 17093, Visit 23, implementation Thu Nov 10 16:02:01 GMT 2022

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 23) 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. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.

Fixed Targets

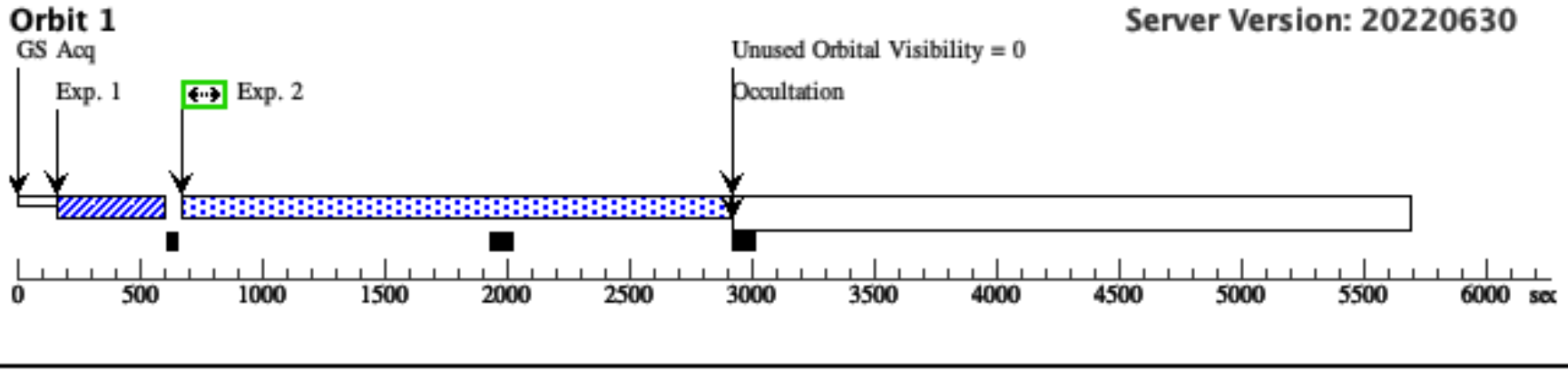
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(23)	J121044.09+164533.1	RA: 12 10 44.0900 (182.6837083d) Dec: +16 45 33.10 (16.75919d) Equinox: J2000		V=17.9+/-0.1 GALEX FUV=18.57, NUV=18.68 mag	Reference Frame: ICRS

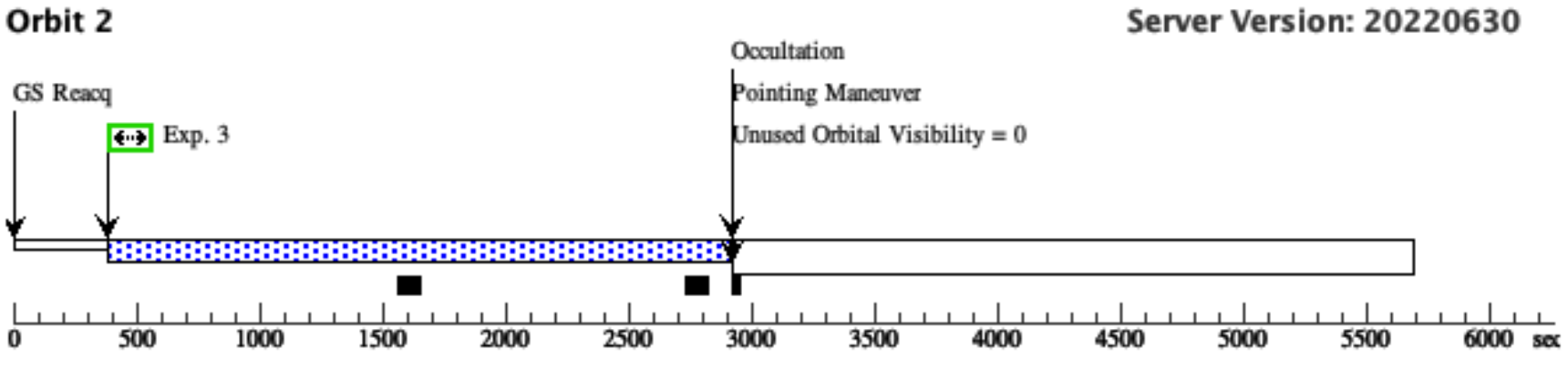
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

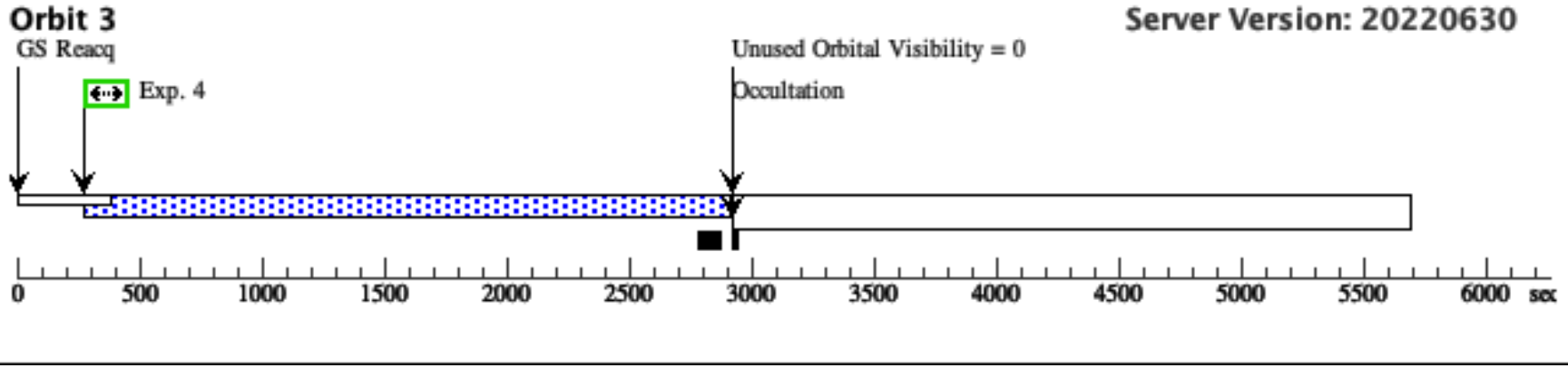
Exposures

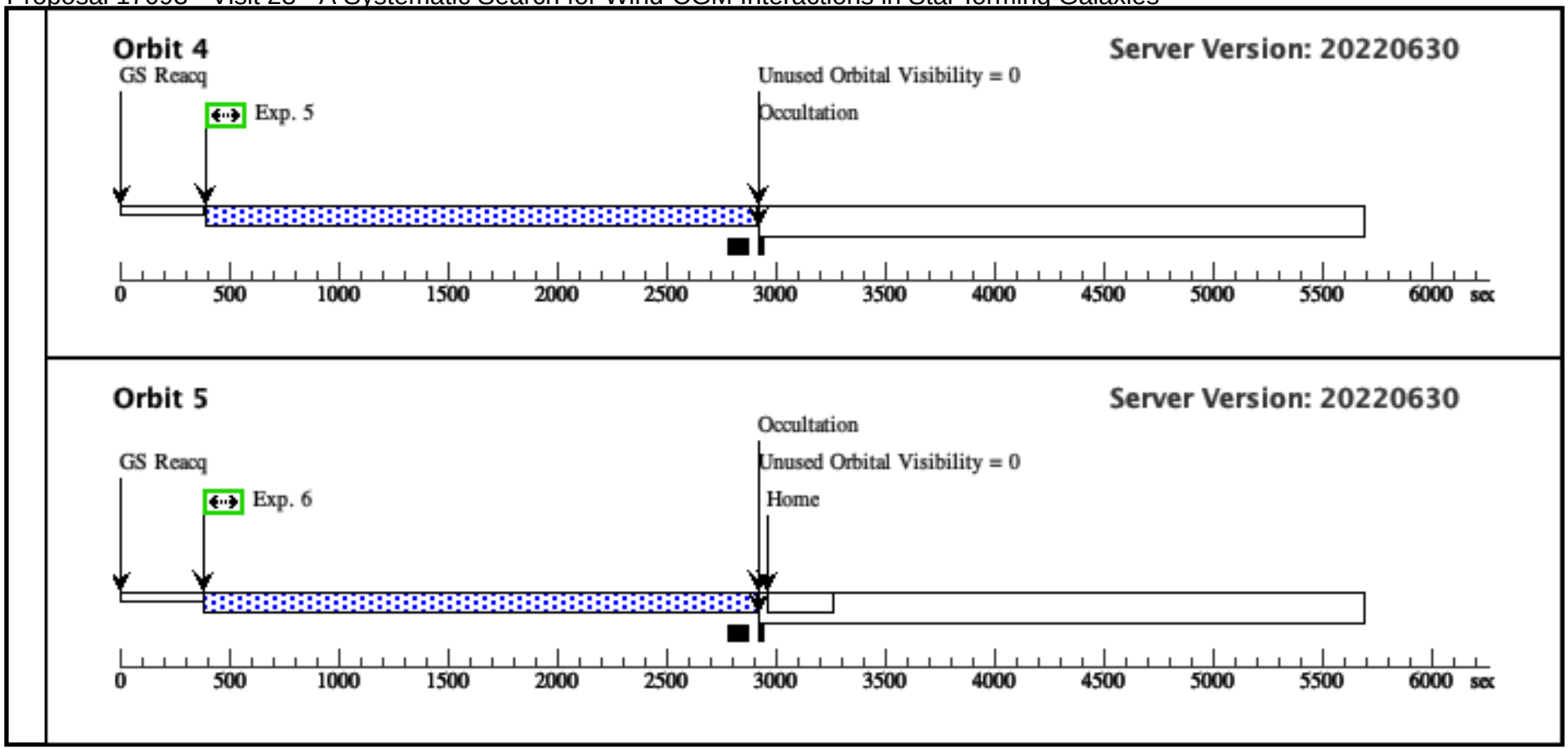
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811566)	(23) J121044.09+164533.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				76 Secs (76 Secs) *[==>]*	*[1]*
2	(1812678)	(23) J121044.09+164533.1	COS/NUV, TIME-TAG, PSA	G230L 2950 A	BUFFER-TIME=1168; FP-POS=3; FLASH=YES			2132 Secs (2132 Secs) *[==>]*	*[1]*
3	(1812678)	(23) J121044.09+164533.1	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=4; BUFFER-TIME=1168; FLASH=YES			2510 Secs (2510 Secs) *[==>]*	*[2]*
4	(1812821)	(23) J121044.09+164533.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2361; FP-POS=3; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2471 Secs (2471 Secs) *[==>]*	*[3]*
5	(1812821)	(23) J121044.09+164533.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2363; FP-POS=3; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2473 Secs (2473 Secs) *[==>]*	*[4]*
6	(1812821)	(23) J121044.09+164533.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2363; FP-POS=4; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2473 Secs (2473 Secs) *[==>]*	*[5]*

Orbit Structure








Orbit 4
Server Version: 20220630
GS Reacq
Exp. 5
Unused Orbital Visibility = 0
Occultation
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1000
1500
2000
2500
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3500
4000
4500
5000
5500
6000
sec
Orbit 5
Server Version: 20220630
Occultation
GS Reacq
Unused Orbital Visibility = 0
Exp. 6
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 17093, Visit 24, scheduling Thu Nov 10 16:02:01 GMT 2022

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

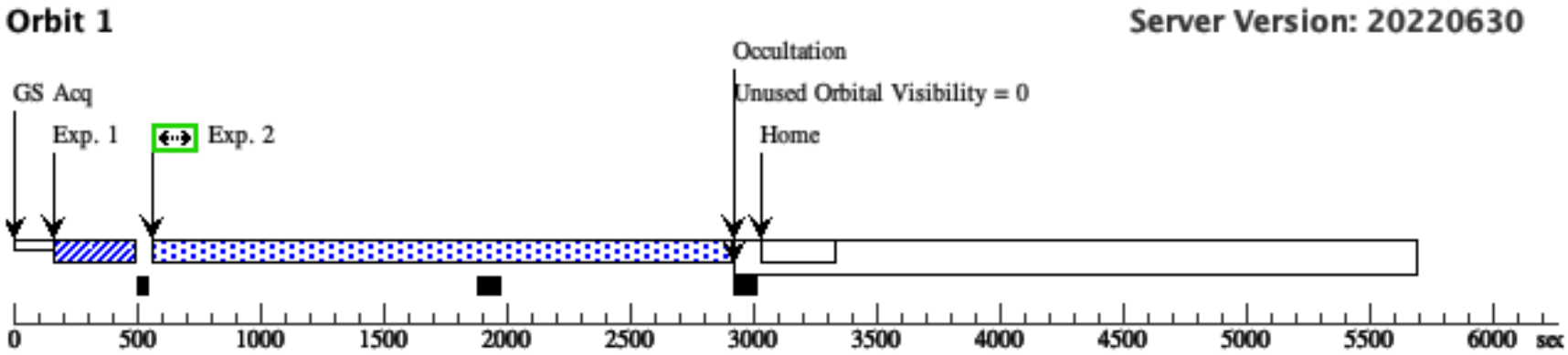
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(24)	J102814.54+211955.1	RA: 10 28 14.5400 (157.0605833d) Dec: +21 19 55.10 (21.33197d) Equinox: J2000		V=16.8+/-0.1 GALEX FUV=17.89, NUV=17.34 mag	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811563)	(24) J102814.54+211955.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				19 Secs (19 Secs) *[==>]*	*[1]*
2	(1812682)	(24) J102814.54+211955.1	COS/NUV, TIME-TAG, PSA	G185M 1817 A	BUFFER-TIME=1144; FP-POS=3; FLASH=YES			2159 Secs (2159 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 17093, Visit 25, implementation Thu Nov 10 16:02:01 GMT 2022

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 25) 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. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.

Fixed Targets

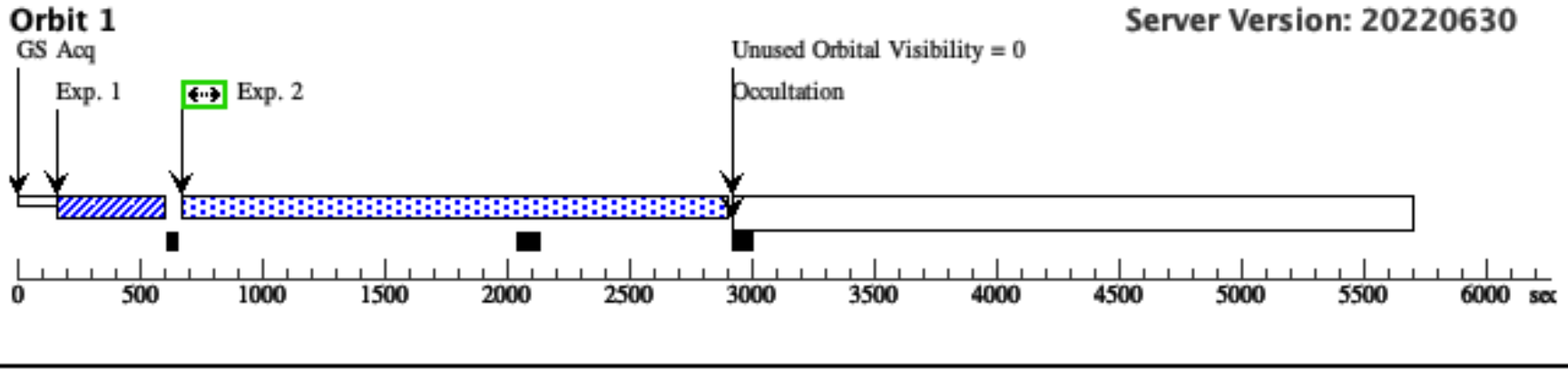
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(25)	J085125.71+093953.3	RA: 08 51 25.7100 (132.8571250d) Dec: +09 39 53.30 (9.66481d) Equinox: J2000		V=17.9+/-0.1 GALEX FUV=18.95, NUV=18.76 mag	Reference Frame: ICRS

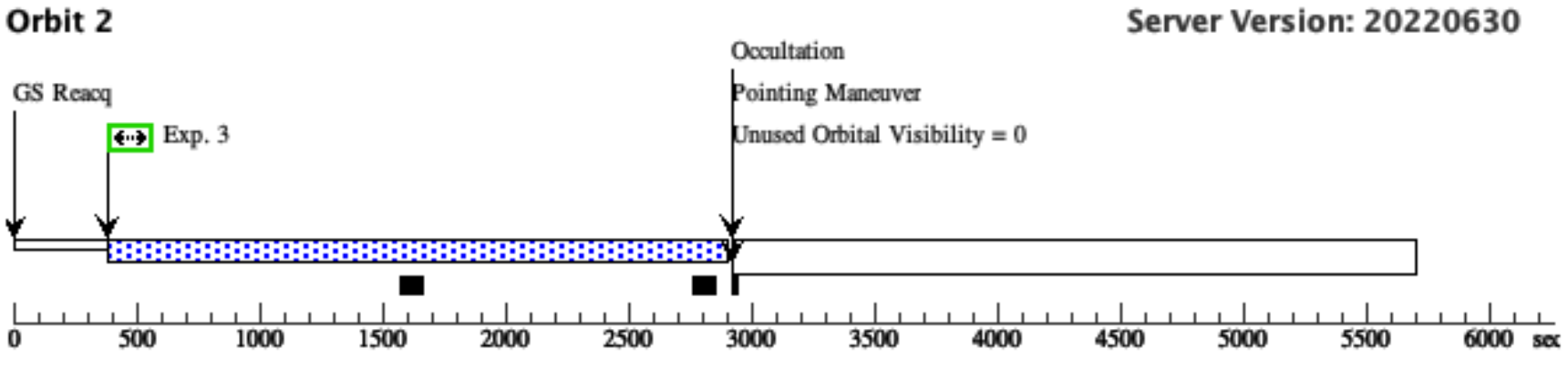
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

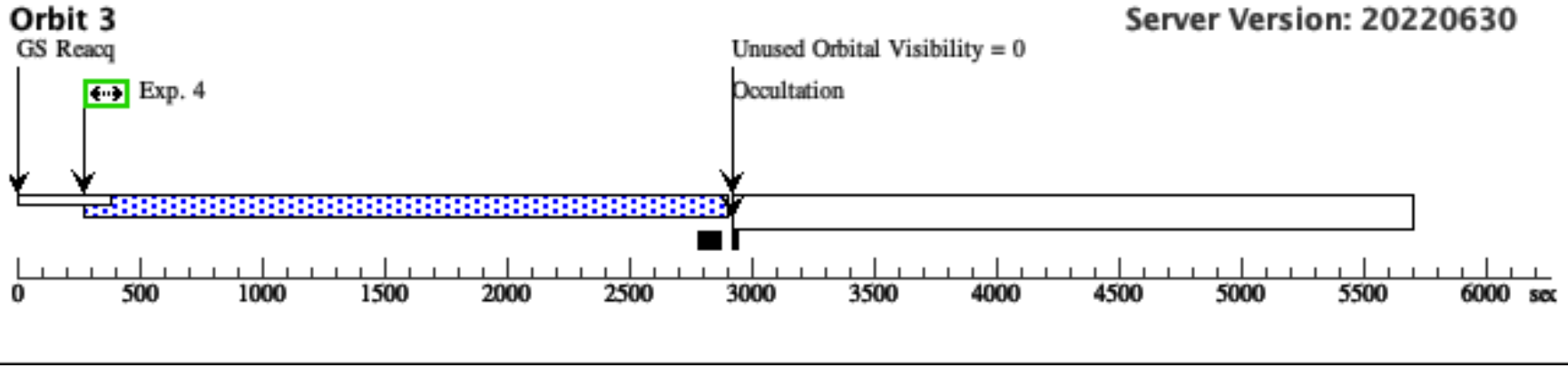
Exposures

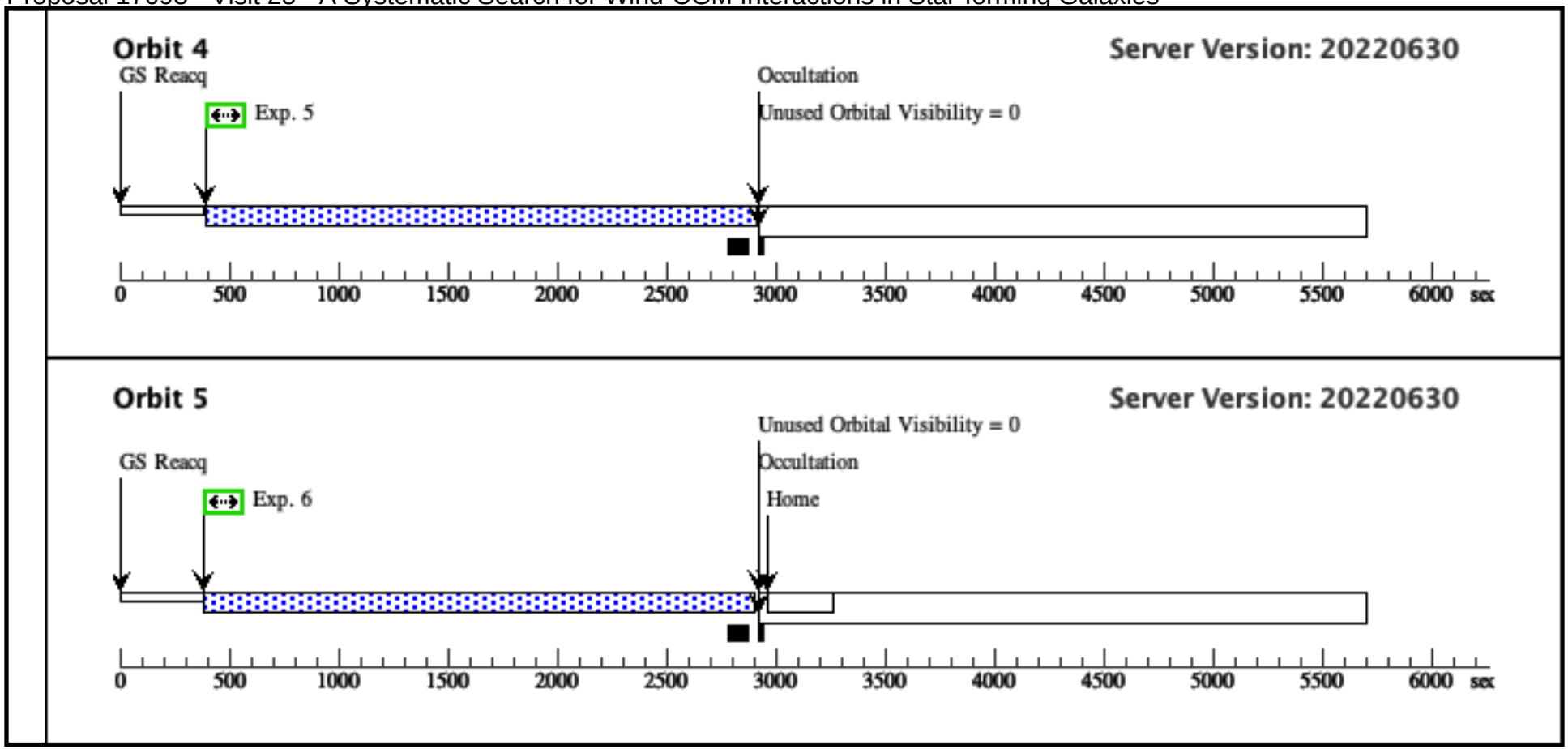
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811566)	(25) J085125.71+093953.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				76 Secs (76 Secs) *[==>]*	*[1]*
2	(1812683)	(25) J085125.71+093953.3	COS/NUV, TIME-TAG, PSA	G185M 1817 A	BUFFER-TIME=1186; FP-POS=1; FLASH=YES			2038 Secs (2038 Secs) *[==>]*	*[1]*
3	(1812683)	(25) J085125.71+093953.3	COS/NUV, TIME-TAG, PSA	G185M 1817 A	FP-POS=2; BUFFER-TIME=1186; FLASH=YES			2503 Secs (2503 Secs) *[==>]*	*[2]*
4	(1812822)	(25) J085125.71+093953.3	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2354; FP-POS=3; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2464 Secs (2464 Secs) *[==>]*	*[3]*
5	(1812822)	(25) J085125.71+093953.3	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2356; FP-POS=3; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2466 Secs (2466 Secs) *[==>]*	*[4]*
6	(1812822)	(25) J085125.71+093953.3	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2356; FP-POS=4; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2466 Secs (2466 Secs) *[==>]*	*[5]*

Orbit Structure








Orbit 4
Server Version: 20220630
GS Reacq
Exp. 5
Occultation
Unused Orbital Visibility = 0
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1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec
Orbit 5
Server Version: 20220630
Unused Orbital Visibility = 0
GS Reacq
Exp. 6
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 17093, Visit 26, implementation Thu Nov 10 16:02:01 GMT 2022

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 26) 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. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.

Fixed Targets

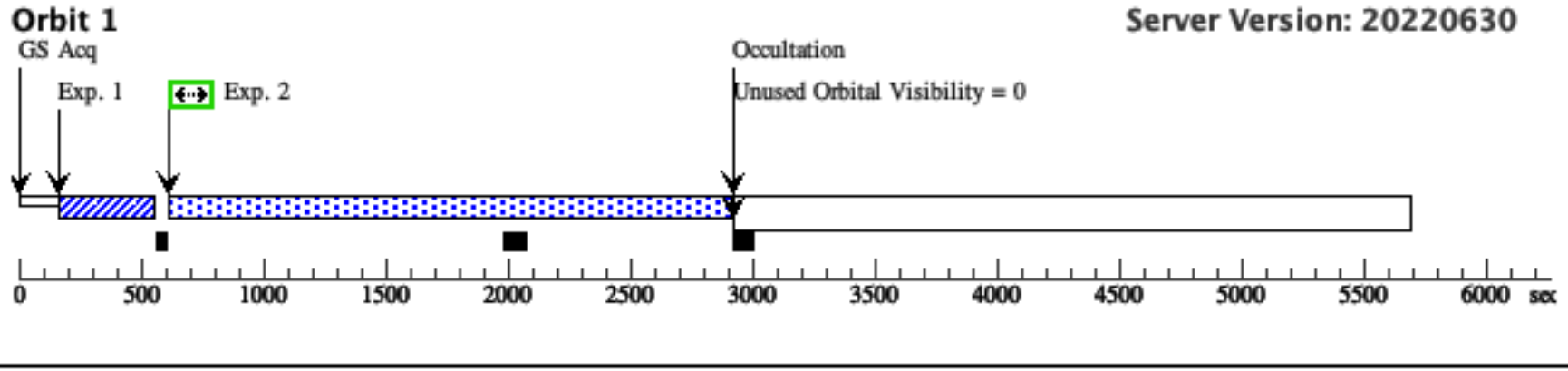
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(26)	J104201.81+181527.7	RA: 10 42 1.8100 (160.5075417d) Dec: +18 15 27.70 (18.25769d) Equinox: J2000		V=17.85+/-0.1 GALEX FUV=18.47, NUV=18.26 mag	Reference Frame: ICRS

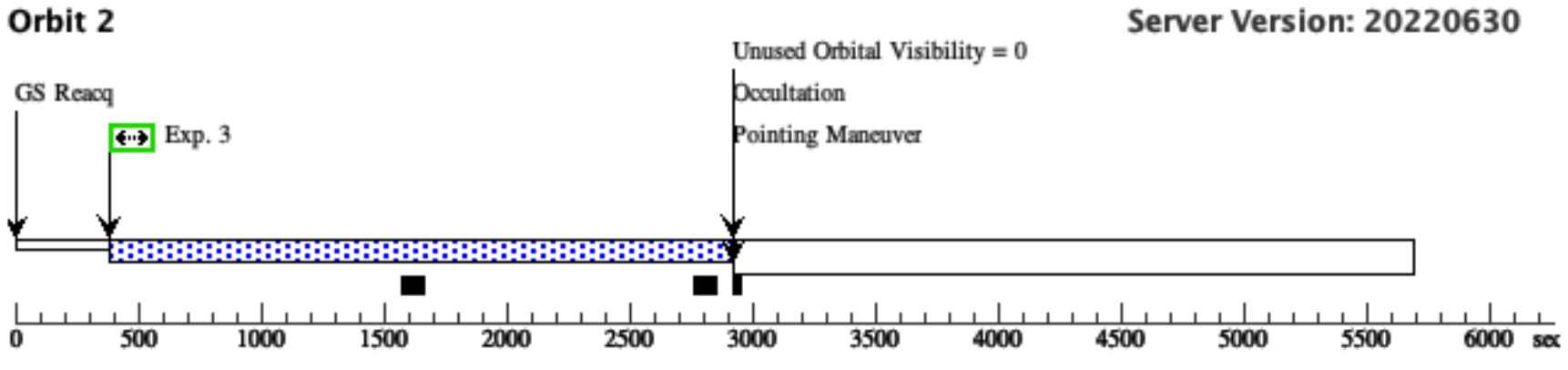
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

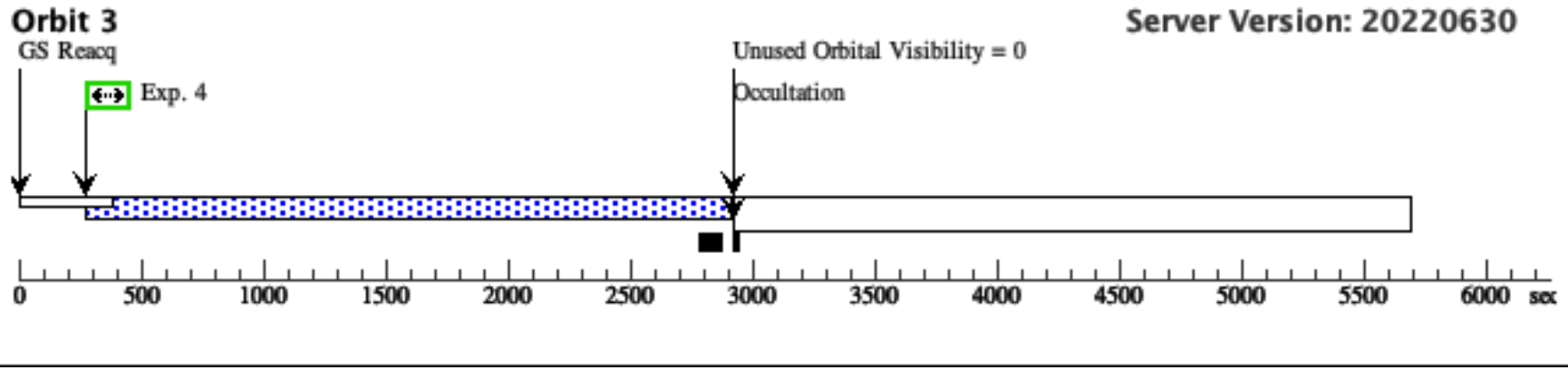
Exposures

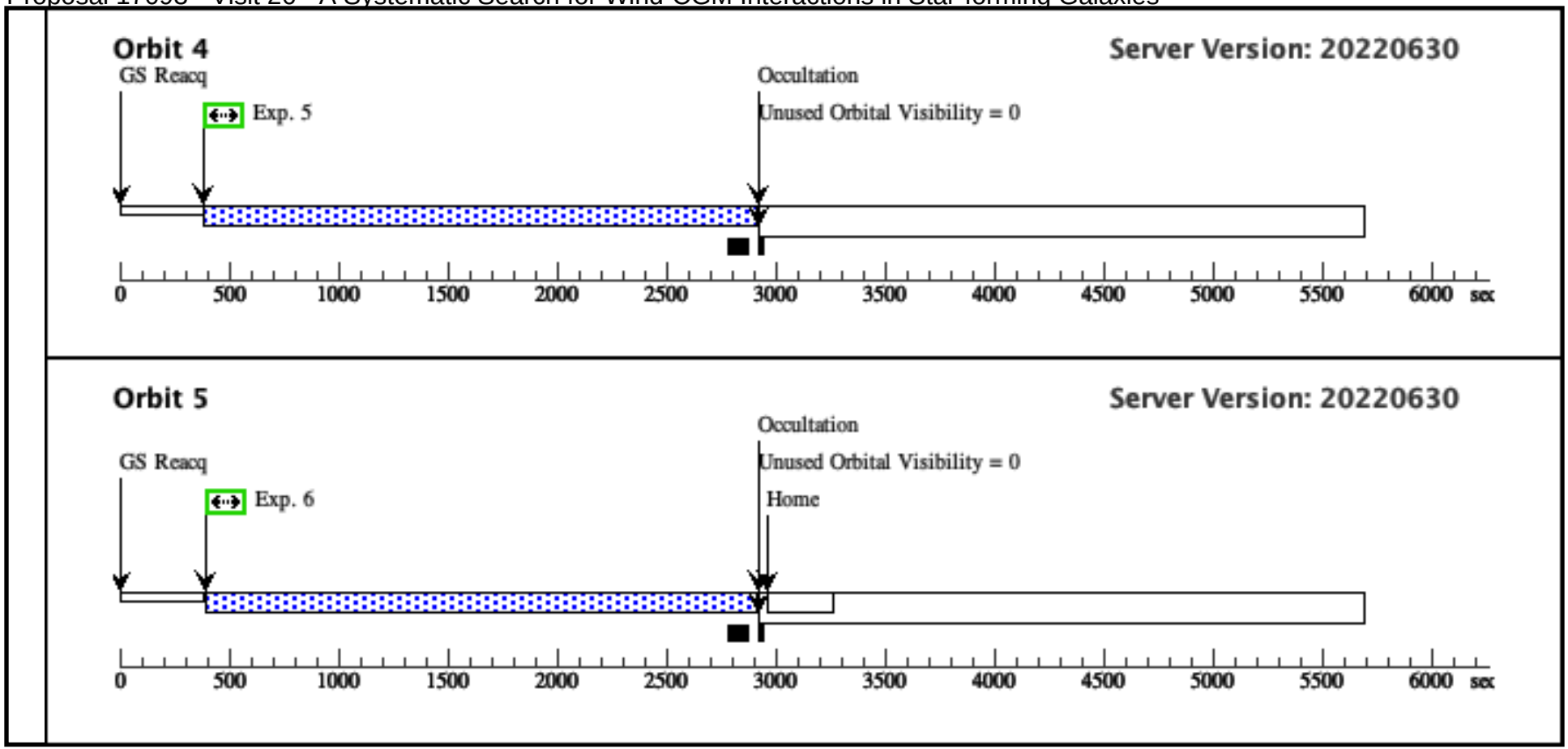
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811565)	(26) J104201.81+181527.7	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				48 Secs (48 Secs) *[==>]*	*[1]*
2	(1812685)	(26) J104201.81+181527.7	COS/NUV, TIME-TAG, PSA	G185M 1835 A	BUFFER-TIME=1184; FP-POS=3; FLASH=YES			2101 Secs (2101 Secs) *[==>]*	*[1]*
3	(1812685)	(26) J104201.81+181527.7	COS/NUV, TIME-TAG, PSA	G185M 1835 A	FP-POS=4; BUFFER-TIME=1184; FLASH=YES			2510 Secs (2510 Secs) *[==>]*	*[2]*
4	(1812823)	(26) J104201.81+181527.7	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2361; FP-POS=3; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2471 Secs (2471 Secs) *[==>]*	*[3]*
5	(1812823)	(26) J104201.81+181527.7	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2363; FP-POS=4; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2473 Secs (2473 Secs) *[==>]*	*[4]*
6	(1812823)	(26) J104201.81+181527.7	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2363; FP-POS=4; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2473 Secs (2473 Secs) *[==>]*	*[5]*

Orbit Structure








Orbit 4
Server Version: 20220630
GS Reacq
Exp. 5
Occultation
Unused Orbital Visibility = 0
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1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec
Orbit 5
Server Version: 20220630
GS Reacq
Exp. 6
Occultation
Unused Orbital Visibility = 0
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 17093, Visit 27, implementation Thu Nov 10 16:02:01 GMT 2022

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 27) 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. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.

Fixed Targets

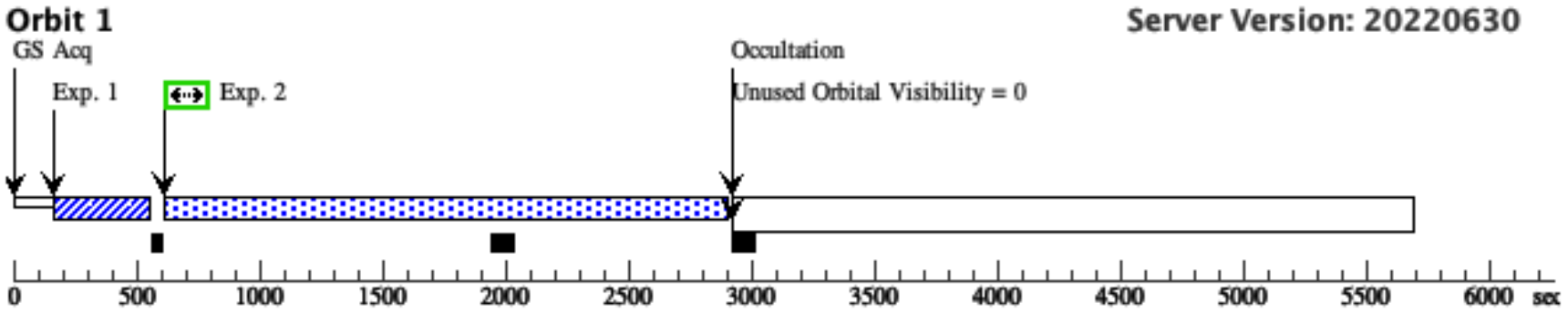
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(27)	J093211.68+315709.7	RA: 09 32 11.6800 (143.0486667d) Dec: +31 57 9.70 (31.95269d) Equinox: J2000		V=17.80+/-0.1 GALEX FUV=18.89, NUV=18.29 mag	Reference Frame: ICRS

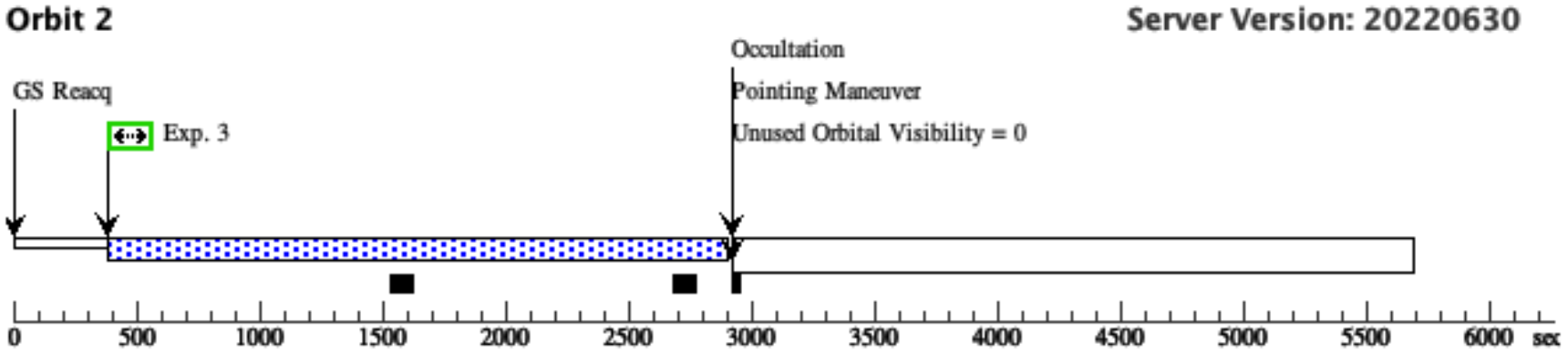
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

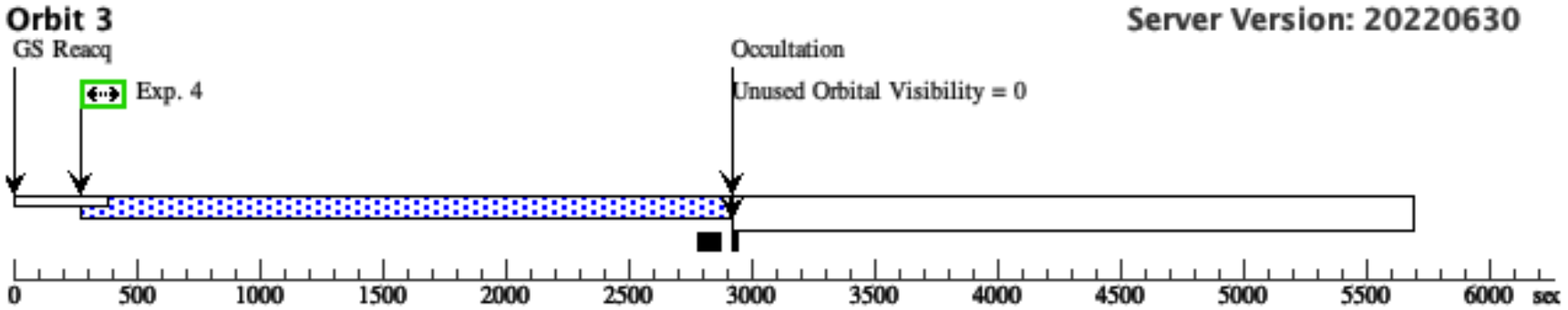
Exposures

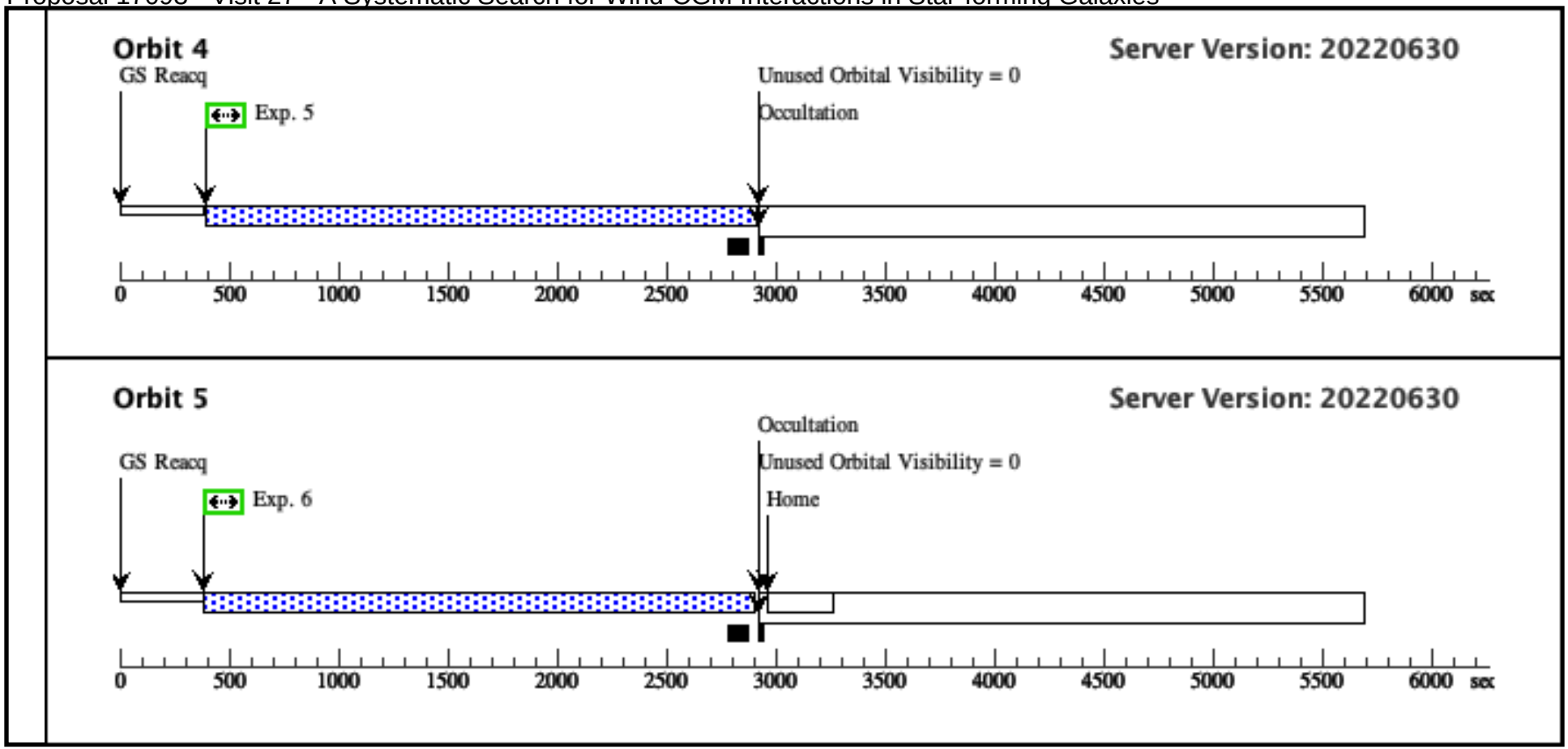
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811565)	(27) J093211.68+315709.7	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				48 Secs (48 Secs) *[==>]*	*[1]*
2	(1812687)	(27) J093211.68+315709.7	COS/NUV, TIME-TAG, PSA	G185M 1835 A	BUFFER-TIME=1144; FP-POS=3; FLASH=YES			2099 Secs (2099 Secs) *[==>]*	*[1]*
3	(1812687)	(27) J093211.68+315709.7	COS/NUV, TIME-TAG, PSA	G185M 1835 A	FP-POS=4; BUFFER-TIME=1144; FLASH=YES			2508 Secs (2508 Secs) *[==>]*	*[2]*
4	(1812824)	(27) J093211.68+315709.7	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2359; FP-POS=3; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2469 Secs (2469 Secs) *[==>]*	*[3]*
5	(1812824)	(27) J093211.68+315709.7	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2361; FP-POS=3; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2471 Secs (2471 Secs) *[==>]*	*[4]*
6	(1812824)	(27) J093211.68+315709.7	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2361; FP-POS=4; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2471 Secs (2471 Secs) *[==>]*	*[5]*

Orbit Structure








Orbit 4
Server Version: 20220630
GS Reacq
Exp. 5
Unused Orbital Visibility = 0
Occultation
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1000
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2500
3000
3500
4000
4500
5000
5500
6000
sec
Orbit 5
Server Version: 20220630
Occultation
GS Reacq
Unused Orbital Visibility = 0
Exp. 6
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Proposal 17093 - Visit 28 - A Systematic Search for Wind-CGM Interactions in Star-forming Galaxies

Visit

Proposal 17093, Visit 28, scheduling Thu Nov 10 16:02:01 GMT 2022

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 28) 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. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.

Fixed Targets

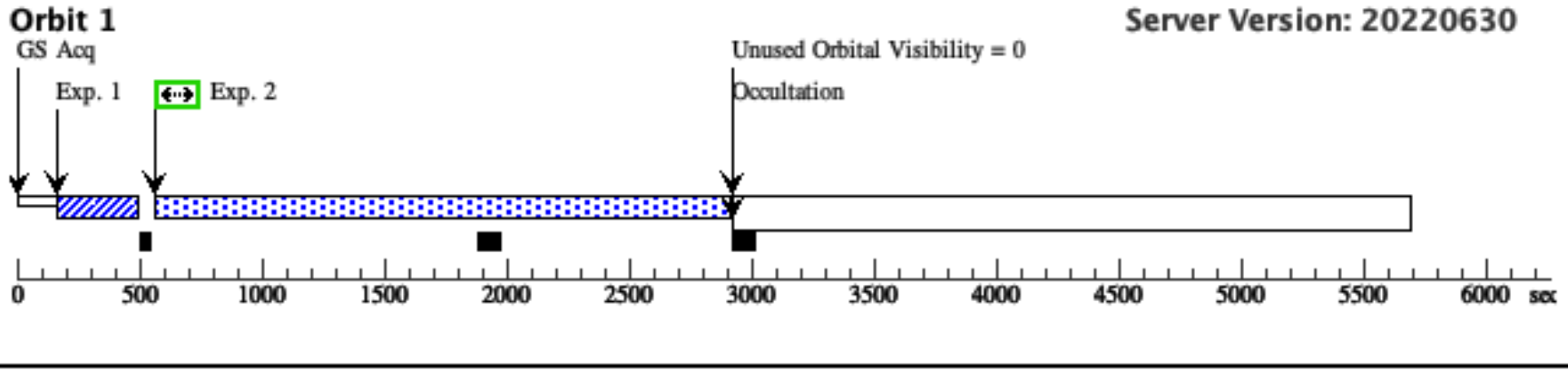
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(28)	J103645.15+370701.2	RA: 10 36 45.1500 (159.1881250d) Dec: +37 07 1.20 (37.11700d) Equinox: J2000		V=16.91+/-0.1 GALEX FUV=18.59, NUV=17.46 mag	Reference Frame: ICRS

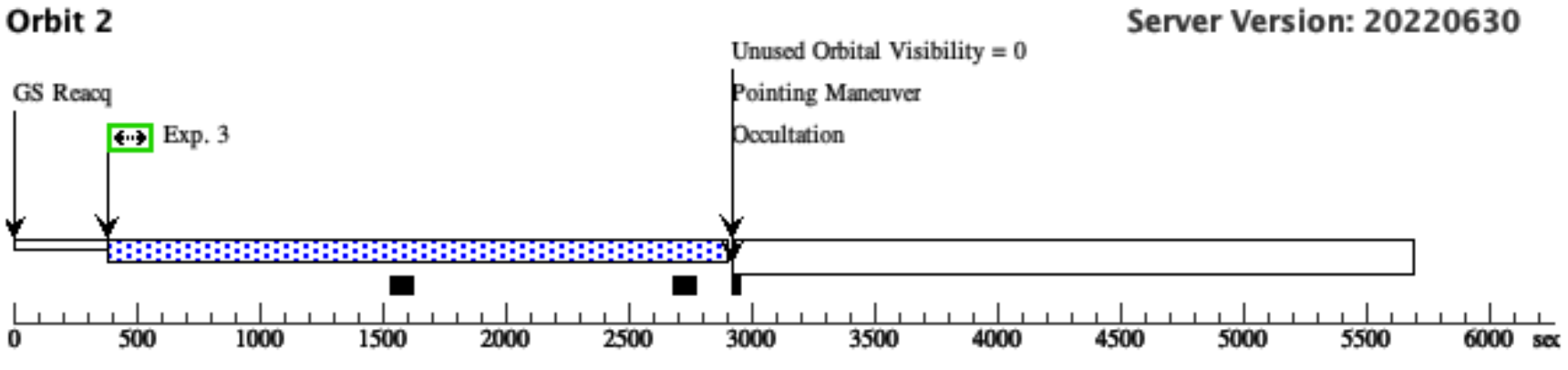
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

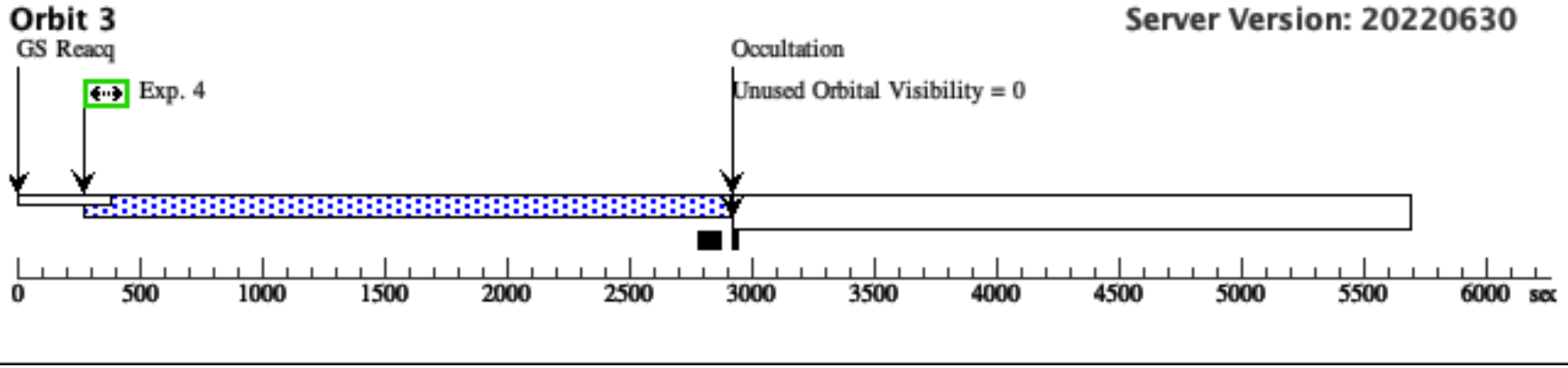
Exposures

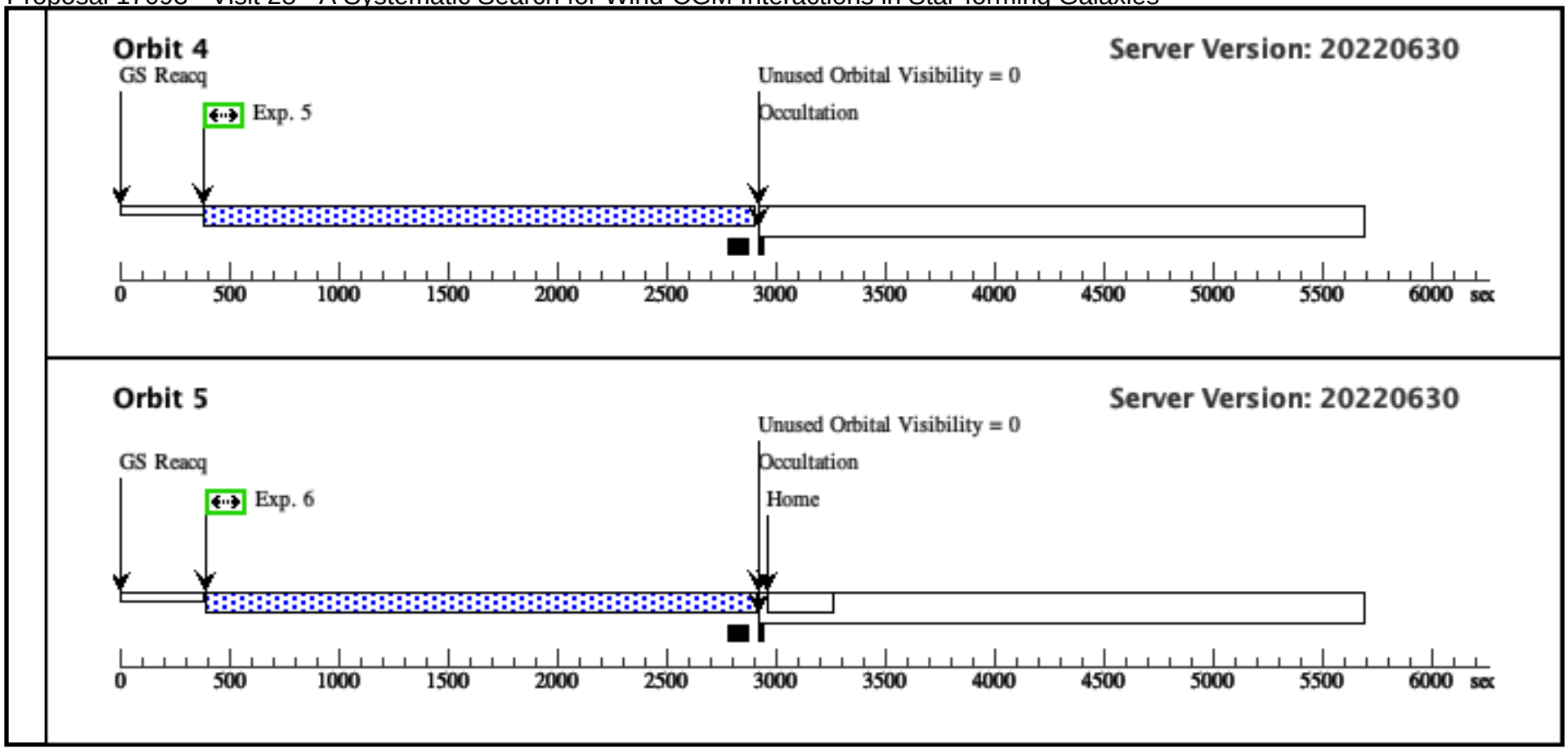
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811563)	(28) J103645.15+370701.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				19 Secs (19 Secs) *[==>]*	***[1]***
2	(1812688)	(28) J103645.15+370701.2	COS/NUV, TIME-TAG, PSA	G185M 1835 A	BUFFER-TIME=1144; FP-POS=3; FLASH=YES			2157 Secs (2157 Secs) *[==>]*	***[1]***
3	(1812688)	(28) J103645.15+370701.2	COS/NUV, TIME-TAG, PSA	G185M 1835 A	FP-POS=4; BUFFER-TIME=1144; FLASH=YES			2508 Secs (2508 Secs) *[==>]*	***[2]***
4	(1812825)	(28) J103645.15+370701.2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2359; FP-POS=3; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2469 Secs (2469 Secs) *[==>]*	***[3]***
5	(1812825)	(28) J103645.15+370701.2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2361; FP-POS=4; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2471 Secs (2471 Secs) *[==>]*	***[4]***
6	(1812825)	(28) J103645.15+370701.2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2361; FP-POS=4; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2471 Secs (2471 Secs) *[==>]*	***[5]***

Orbit Structure








Orbit 4
Server Version: 20220630
GS Reacq
Exp. 5
Unused Orbital Visibility = 0
Occultation
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1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec
Orbit 5
Server Version: 20220630
GS Reacq
Exp. 6
Unused Orbital Visibility = 0
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 17093, Visit 29, scheduling Thu Nov 10 16:02:01 GMT 2022

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

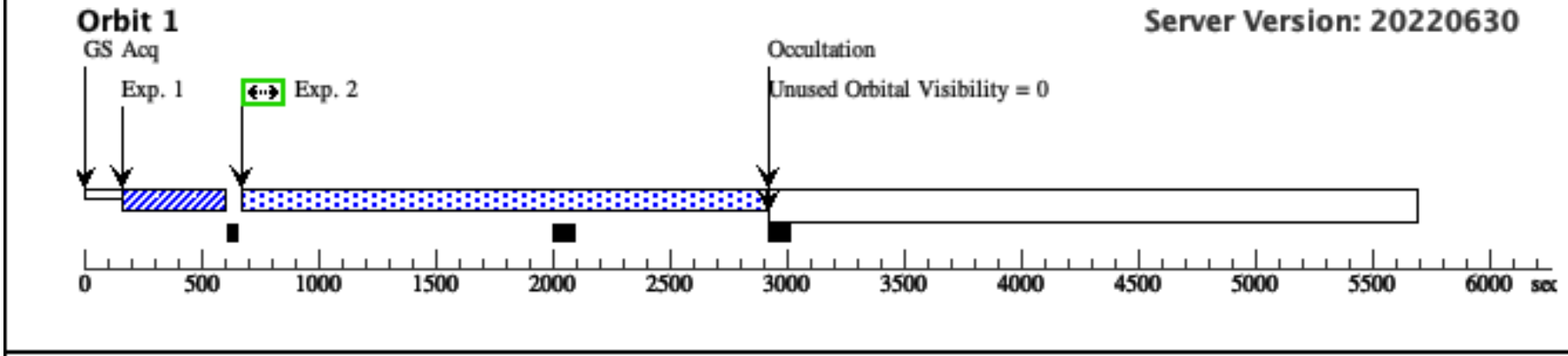
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(29)	J113137.16+155645.3	RA: 11 31 37.1600 (172.9048333d) Dec: +15 56 45.30 (15.94592d) Equinox: J2000		V=17.60+/-0.1 GALEX FUV=18.88, NUV=18.83 mag	Reference Frame: ICRS

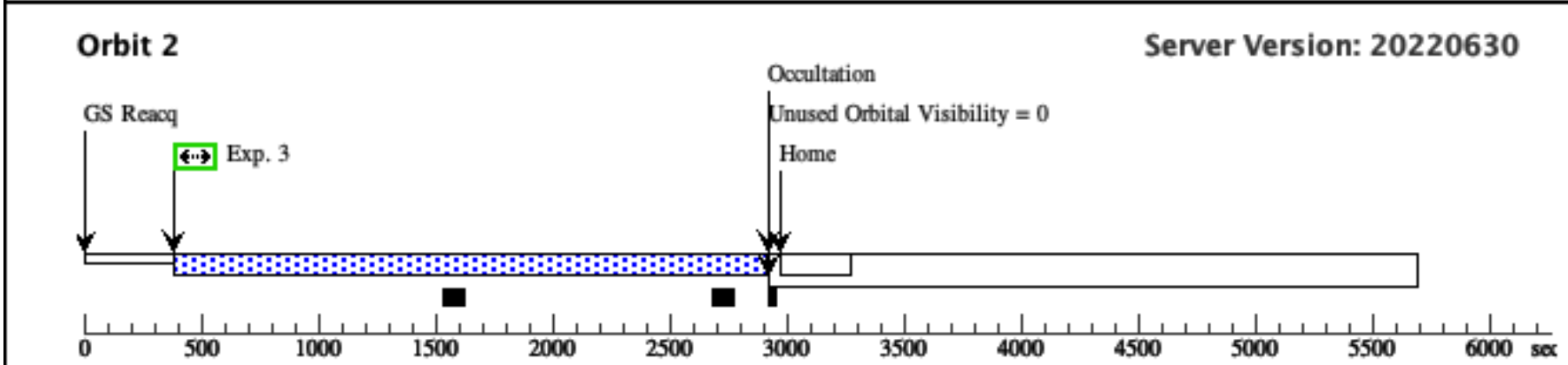
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811566)	(29) J113137.16+155645.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				76 Secs (76 Secs) *[==>]*	***[1]***
2	(1812689)	(29) J113137.16+155645.3	COS/NUV, TIME-TAG, PSA	G185M 1850 A	BUFFER-TIME=1144; FP-POS=3; FLASH=YES			2045 Secs (2045 Secs) *[==>]*	***[1]***
3	(1812689)	(29) J113137.16+155645.3	COS/NUV, TIME-TAG, PSA	G185M 1850 A	FP-POS=4; BUFFER-TIME=1144; FLASH=YES			2510 Secs (2510 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 17093, Visit 30, implementation Thu Nov 10 16:02:01 GMT 2022

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 30) 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. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.

Fixed Targets

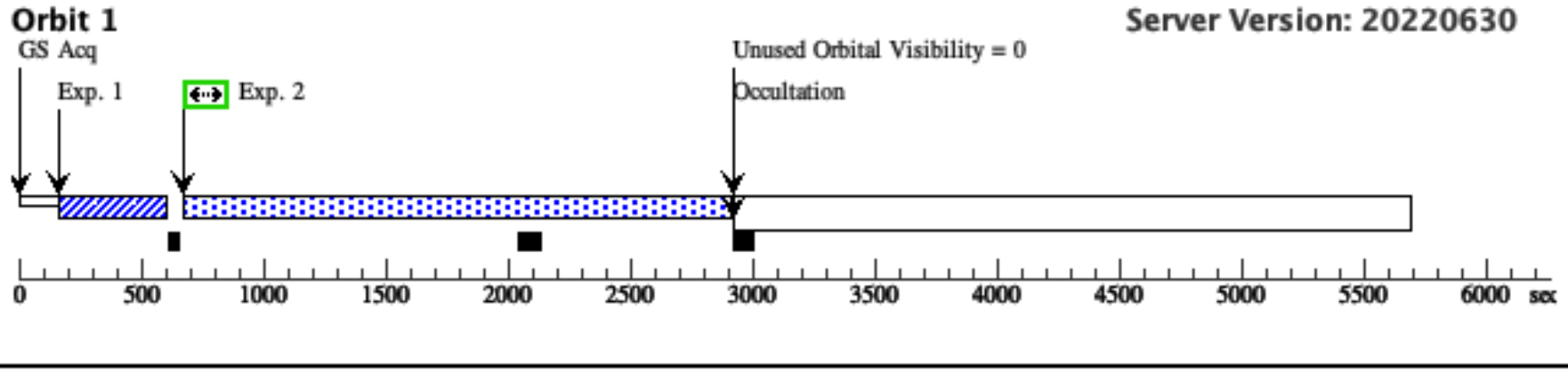
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(30)	J092718.49+304539.0	RA: 09 27 18.4900 (141.8270417d) Dec: +30 45 39.00 (30.76083d) Equinox: J2000		V=18.20+/-0.1 GALEX FUV=18.76, NUV=18.62 mag	Reference Frame: ICRS

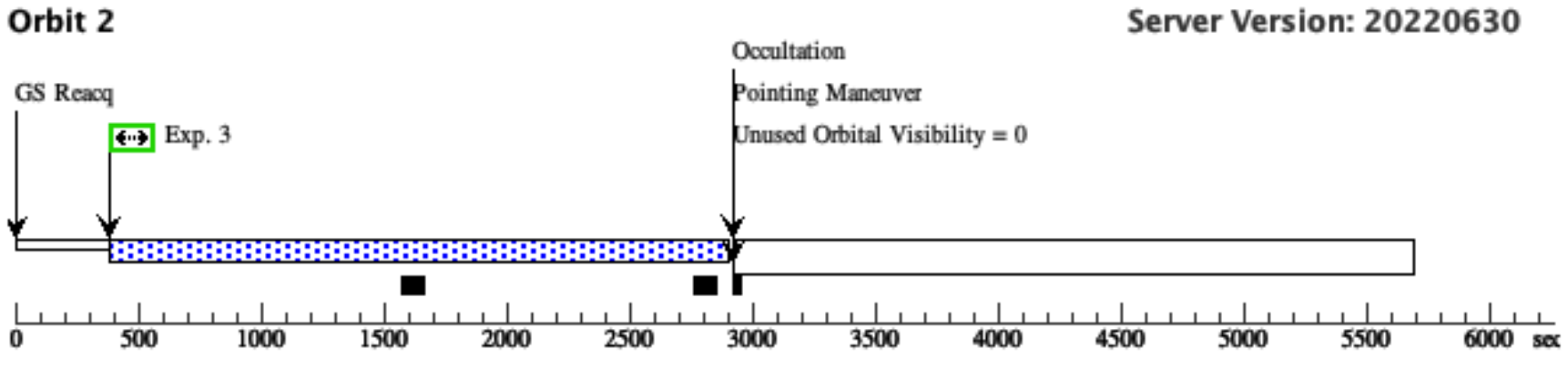
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

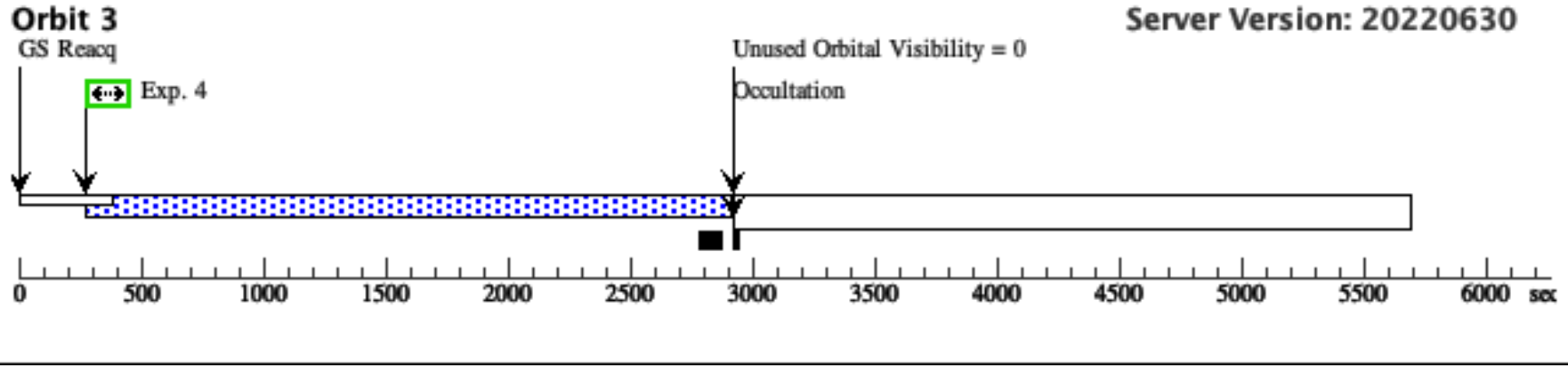
Exposures

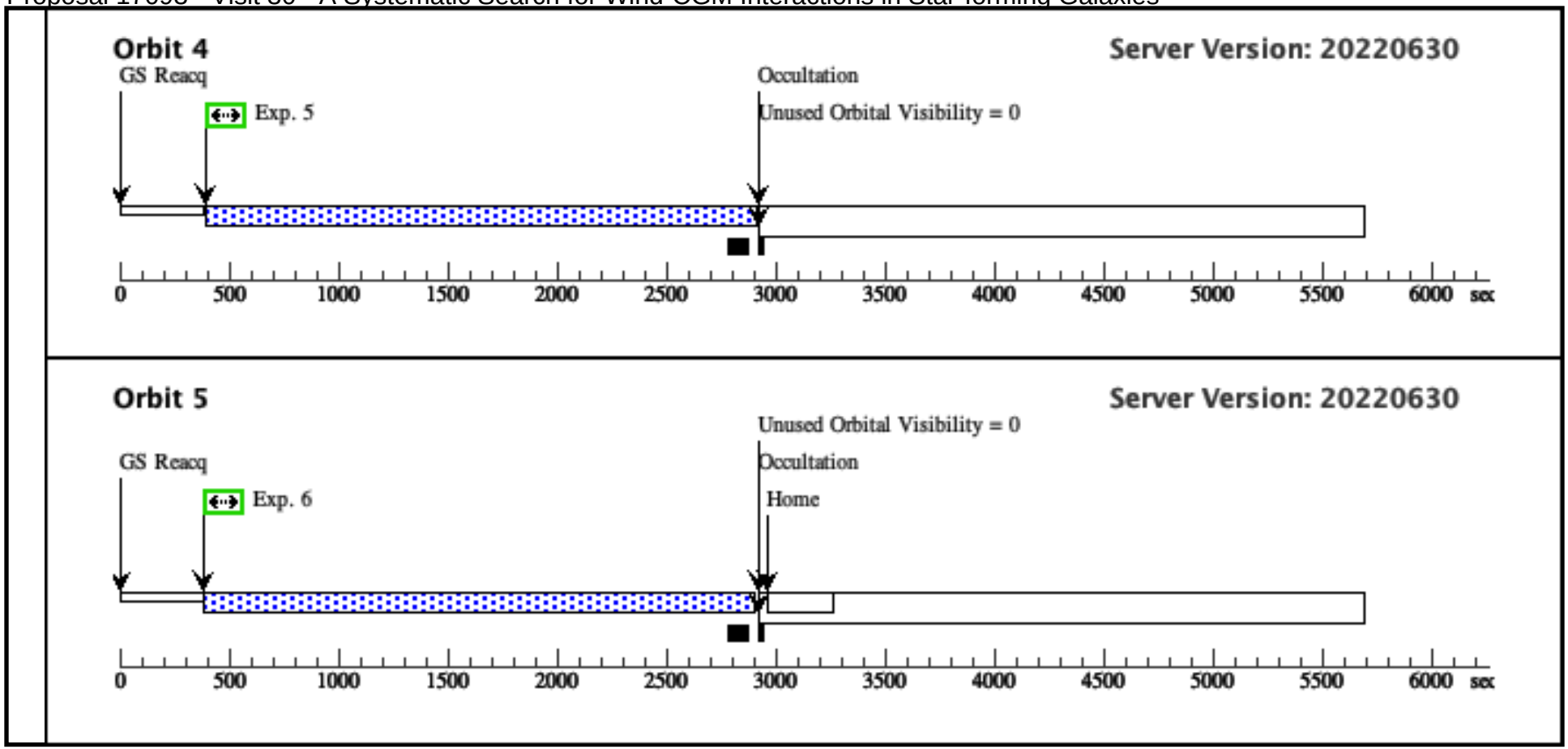
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811566)	(30) J092718.49+304539.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				76 Secs (76 Secs) *[==>]*	*[1]*
2	(1812691)	(30) J092718.49+304539.0	COS/NUV, TIME-TAG, PSA	G185M 1882 A	BUFFER-TIME=1186; FP-POS=3; FLASH=YES			2043 Secs (2043 Secs) *[==>]*	*[1]*
3	(1812691)	(30) J092718.49+304539.0	COS/NUV, TIME-TAG, PSA	G185M 1882 A	FP-POS=4; BUFFER-TIME=1186; FLASH=YES			2508 Secs (2508 Secs) *[==>]*	*[2]*
4	(1812826)	(30) J092718.49+304539.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2359; FP-POS=3; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2469 Secs (2469 Secs) *[==>]*	*[3]*
5	(1812826)	(30) J092718.49+304539.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2361; FP-POS=3; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2471 Secs (2471 Secs) *[==>]*	*[4]*
6	(1812826)	(30) J092718.49+304539.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2361; FP-POS=4; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			2471 Secs (2471 Secs) *[==>]*	*[5]*

Orbit Structure








Orbit 4
Server Version: 20220630
GS Reacq
Exp. 5
Occultation
Unused Orbital Visibility = 0
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1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec
Orbit 5
Server Version: 20220630
Unused Orbital Visibility = 0
GS Reacq
Exp. 6
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 17093, Visit 31, scheduling Thu Nov 10 16:02:01 GMT 2022

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 31) 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. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.

Fixed Targets

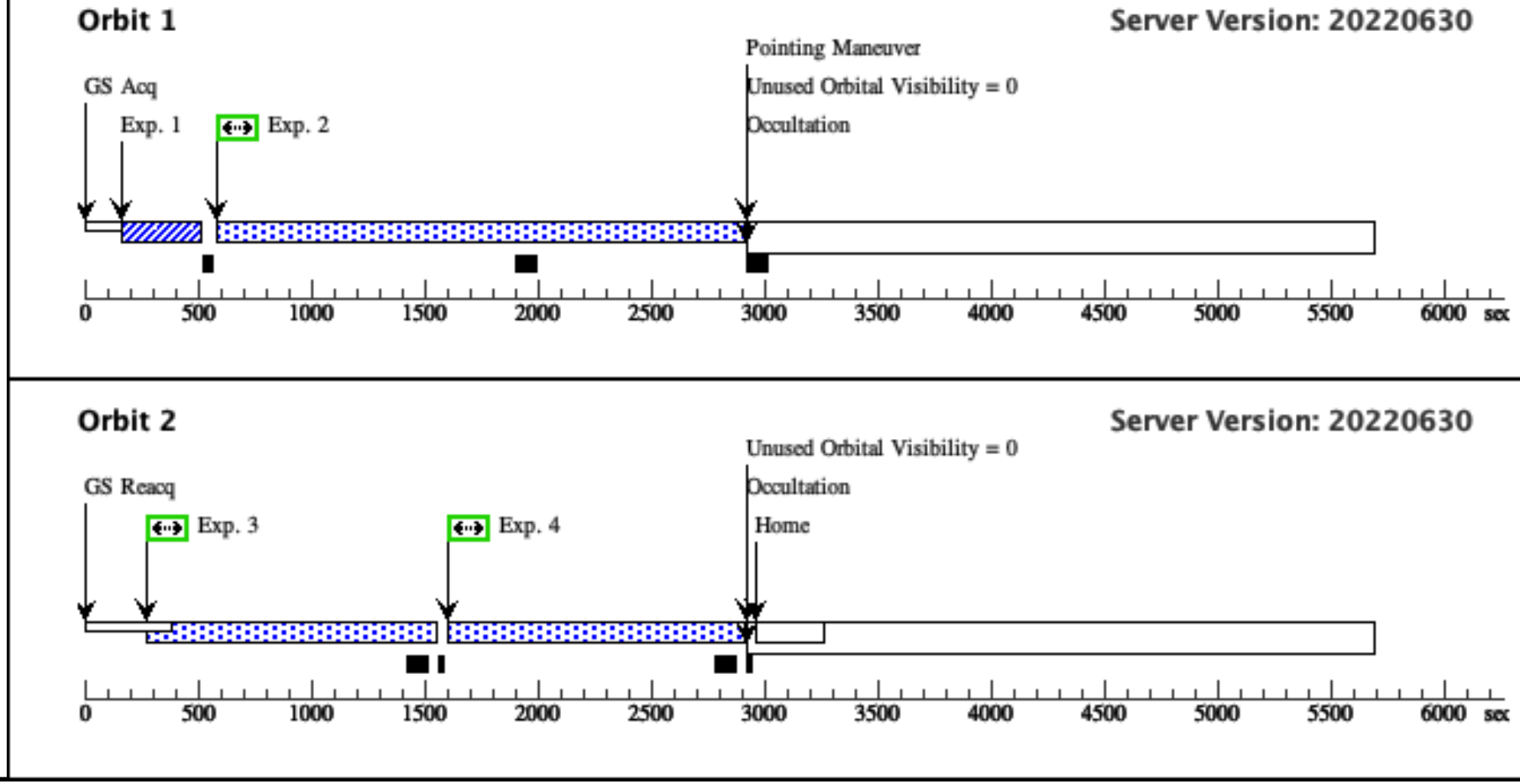
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(31)	J140753.62+174836.0	RA: 14 07 53.6200 (211.9734167d) Dec: +17 48 36.00 (17.81000d) Equinox: J2000		V=17.10+/-0.1 GALEX FUV=17.87, NUV=17.81 mag	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811564)	(31) J140753.62+174836.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				30 Secs (30 Secs) *[==>]*	***[1]***
2	(1812693)	(31) J140753.62+174836.0	COS/NUV, TIME-TAG, PSA	G185M 1882 A	BUFFER-TIME=1144; FP-POS=3; FLASH=YES			2137 Secs (2137 Secs) *[==>]*	***[1]***
3	(1812827)	(31) J140753.62+174836.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=1000; FP-POS=3; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			1110 Secs (1110 Secs) *[==>]*	***[2]***
4	(1812827)	(31) J140753.62+174836.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=1146; FP-POS=4; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP5			1256 Secs (1256 Secs) *[==>]*	***[2]***

Orbit Structure



Visit

Proposal 17093, Visit 32, scheduling Thu Nov 10 16:02:01 GMT 2022

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

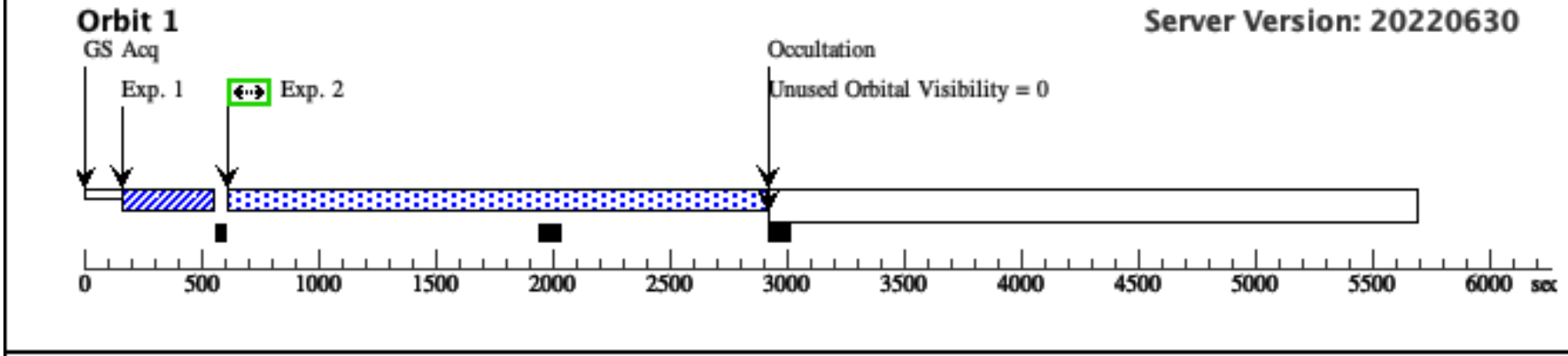
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(32)	J120917.35+261613.1	RA: 12 09 17.3500 (182.3222917d) Dec: +26 16 13.10 (26.27031d) Equinox: J2000		V=18.0+/-0.1 GALEX FUV=18.98, NUV=18.38 mag	Reference Frame: ICRS

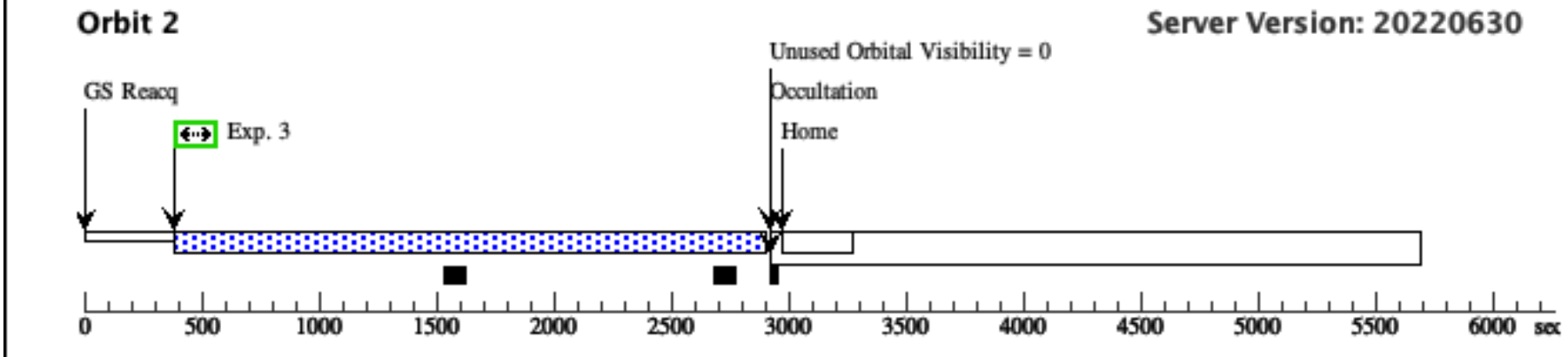
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811565)	(32) J120917.35+261613.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				48 Secs (48 Secs) *[==>]*	***[1]***
2	(1812702)	(32) J120917.35+261613.1	COS/NUV, TIME-TAG, PSA	G185M 1913 A	BUFFER-TIME=1144; FP-POS=3; FLASH=YES			2100 Secs (2100 Secs) *[==>]*	***[1]***
3	(1812702)	(32) J120917.35+261613.1	COS/NUV, TIME-TAG, PSA	G185M 1913 A	BUFFER-TIME=1144; FP-POS=4; FLASH=YES			2509 Secs (2509 Secs) *[==>]*	***[2]***

Orbit Structure





Proposal 17093 - Visit 33 - A Systematic Search for Wind-CGM Interactions in Star-forming Galaxies

Visit

Proposal 17093, Visit 33, scheduling Thu Nov 10 16:02:01 GMT 2022

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 33) 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. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.

Fixed Targets

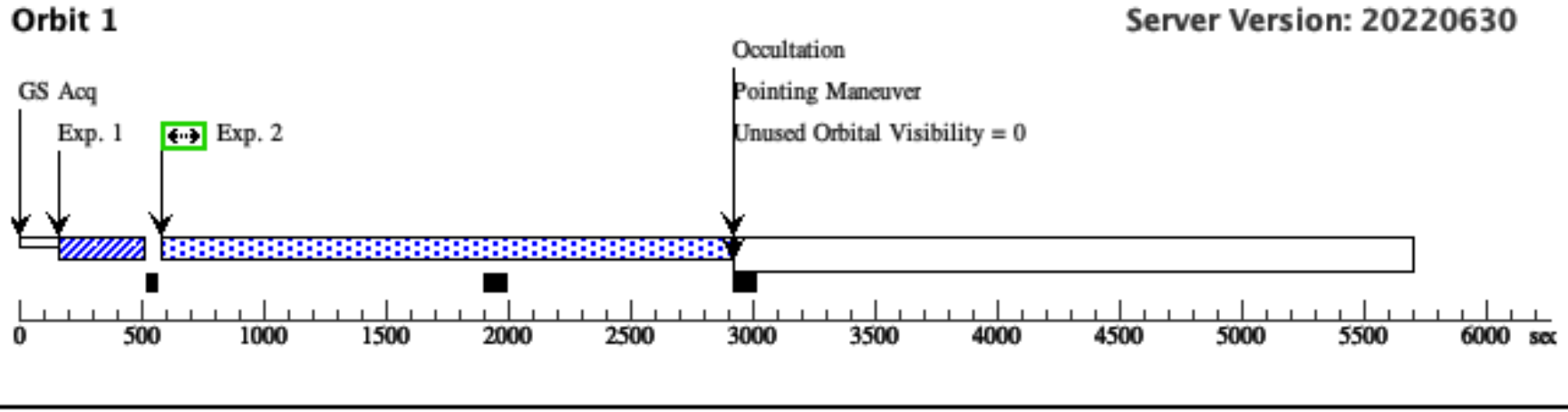
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(33)	J100334.72+050232.0	RA: 10 03 34.7200 (150.8946667d) Dec: +05 02 32.00 (5.04222d) Equinox: J2000		V=16.8+/-0.1 GALEX FUV=18.71, NUV=17.78 mag	Reference Frame: ICRS

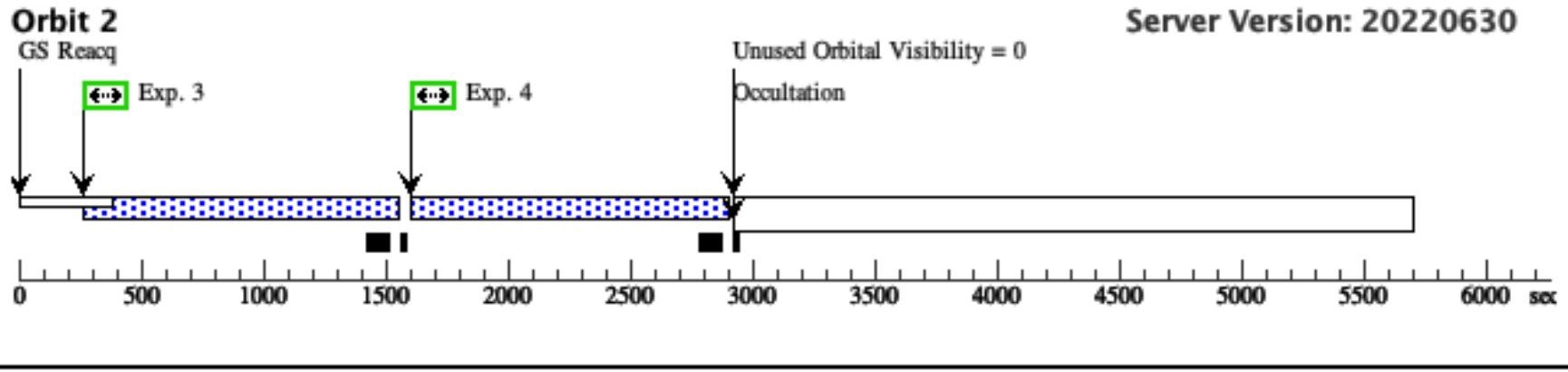
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

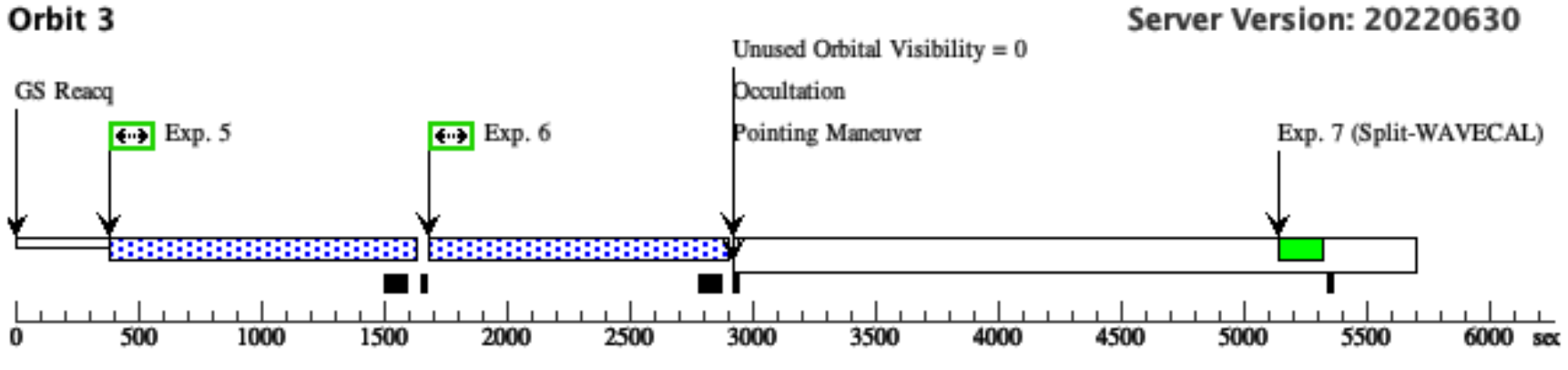
Exposures

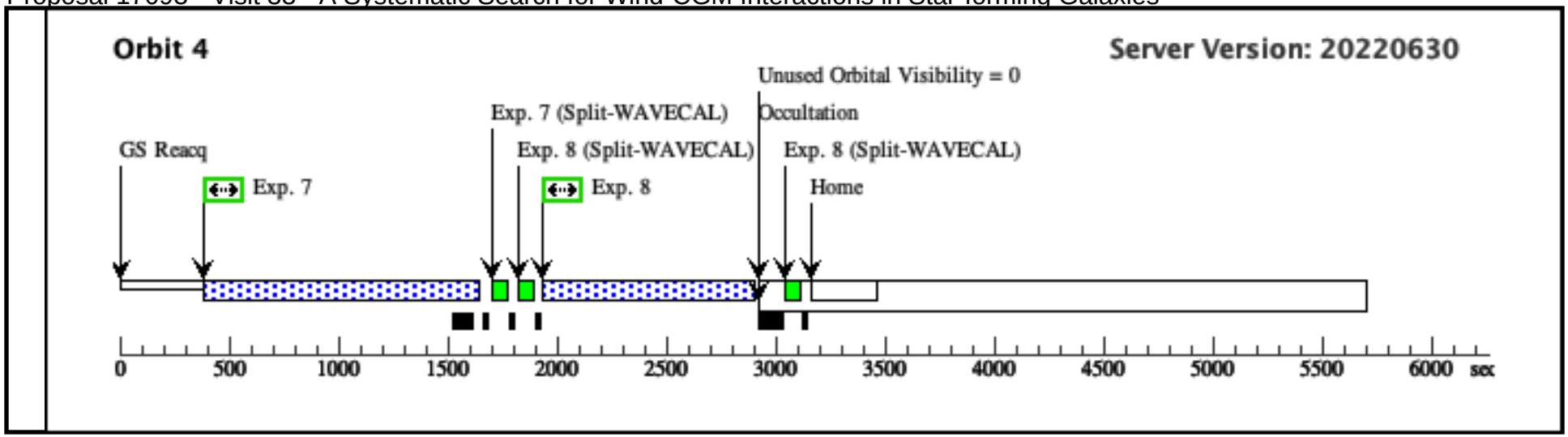
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1811564)	(33) J100334.72+050232.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				30 Secs (30 Secs) *[==>]*	*[1]*
2	(1812699)	(33) J100334.72+050232.0	COS/NUV, TIME-TAG, PSA	G185M 1953 A	BUFFER-TIME=1144; FP-POS=3; FLASH=YES			2130 Secs (2130 Secs) *[==>]*	*[1]*
3	(1812828)	(33) J100334.72+050232.0	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=1000; FP-POS=1; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP4			1110 Secs (1110 Secs) *[==>]*	*[2]*
4	(1812828)	(33) J100334.72+050232.0	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=1139; FP-POS=2; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP4			1249 Secs (1249 Secs) *[==>]*	*[2]*
5	(1812828)	(33) J100334.72+050232.0	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=1084; FP-POS=3; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP4			1194 Secs (1194 Secs) *[==>]*	*[3]*
6	(1812828)	(33) J100334.72+050232.0	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=1057; FP-POS=4; FLASH=YES; SEGMENT=BOTH; LIFETIME-POS=LP4			1167 Secs (1167 Secs) *[==>]*	*[3]*
7	(1820130)	(33) J100334.72+050232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=1; BUFFER-TIME=1100; LIFETIME-POS=LP6			1210 Secs (1210 Secs) *[==>]*	*[4]*
8	(1820130)	(33) J100334.72+050232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=4; BUFFER-TIME=900; LIFETIME-POS=LP6			918 Secs (918 Secs) *[==>]*	*[4]*

Orbit Structure








Orbit 4
Server Version: 20220630
Unused Orbital Visibility = 0
Exp. 7 (Split-WAVECAL)
Occultation
GS Reacq
Exp. 8 (Split-WAVECAL)
Exp. 8 (Split-WAVECAL)
Exp. 7
Exp. 8
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec