15180 - ELGs in Absorption: Tracing the Cosmic Baryon Cycle from Noon til Dusk

Cycle: 25, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

Name	*Institution*	*E-Mail*
Dr. Jason X. Prochaska (PI) (Contact)	**University of California - Santa Cruz**	**xavier@ucolick.org**
Dr. Jason Tumlinson (CoI)	Space Telescope Science Institute	tumlinson@stsci.edu
Dr. Jessica Kay Werk (CoI)	University of Washington	jess.werk@gmail.com
Dr. John M. O'Meara (CoI)	California Association for Research in Astronomy (CARA)	jomeara@keck.hawaii.edu
Dr. Guangtun Zhu (CoI)	The Johns Hopkins University	gz323@pha.jhu.edu
Timothy M. Heckman (CoI)	The Johns Hopkins University	theckma1@jhu.edu

VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
13	(20) J003413.0453-010026.92	COS/FUV COS/NUV	3	17-Jun-2019 16:00:20.0	yes
01	(10) J081735.0757+223717.75	COS/FUV COS/NUV	3	17-Jun-2019 16:00:22.0	yes
08	(11) J085944.6118+411719.88	COS/FUV COS/NUV	3	17-Jun-2019 16:00:24.0	yes
15	(5) J090916.0876+163522.51	COS/FUV COS/NUV	2	17-Jun-2019 16:00:25.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
22	(3) J091840.7520+290631.85	COS/FUV COS/NUV	3	17-Jun-2019 16:00:27.0	yes
27	(3) J091840.7520+290631.85	COS/FUV COS/NUV	2	17-Jun-2019 16:00:28.0	yes
23	(3) J091840.7520+290631.85	COS/NUV	2	17-Jun-2019 16:00:29.0	yes
19	(9) J092756.8835+253007.79	COS/FUV COS/NUV	2	17-Jun-2019 16:00:31.0	yes
11	(17) J095456.8213+174331.23	COS/FUV COS/NUV	3	17-Jun-2019 16:00:32.0	yes
16	(12) J100151.3428+280002.25	COS/FUV COS/NUV	2	17-Jun-2019 16:00:34.0	yes
05	(7) J101810.9790+354239.48	COS/FUV COS/NUV	3	17-Jun-2019 16:00:36.0	yes
04	(6) J101903.1274+101655.03	COS/FUV COS/NUV	3	17-Jun-2019 16:00:38.0	yes
17	(15) J103928.1433+392342.13	COS/FUV COS/NUV	2	17-Jun-2019 16:00:39.0	yes
30	(15) J103928.1433+392342.13	COS/NUV	1	17-Jun-2019 16:00:40.0	yes
06	(8) J104231.1206+221300.50	COS/FUV COS/NUV	3	17-Jun-2019 16:00:41.0	yes
14	(24) J104839.3933+442821.11	COS/FUV COS/NUV	3	17-Jun-2019 16:00:43.0	yes
21	(23) J112317.5195+051804.04	COS/FUV COS/NUV	2	17-Jun-2019 16:00:44.0	yes
03	(22) J114931.7542+223028.37	COS/FUV COS/NUV	2	17-Jun-2019 16:00:45.0	yes
02	(21) J121615.8716+165300.10	COS/FUV COS/NUV	3	17-Jun-2019 16:00:47.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
26	(21) J121615.8716+165300.10	COS/FUV COS/NUV	3	17-Jun-2019 16:00:48.0	yes
25	(2) J125547.6184+401230.81	COS/FUV COS/NUV	4	17-Jun-2019 16:00:51.0	yes
29	(2) J125547.6184+401230.81	COS/NUV	3	17-Jun-2019 16:00:53.0	yes
12	(19) J132854.1809+061152.21	COS/FUV COS/NUV	3	17-Jun-2019 16:00:54.0	yes
07	(1) J132921.7493+144431.21	COS/FUV COS/NUV	3	17-Jun-2019 16:00:56.0	yes
18	(1) J132921.7493+144431.21	COS/NUV	2	17-Jun-2019 16:00:57.0	yes
24	(4) J133248.7134+395756.10	COS/FUV COS/NUV	2	17-Jun-2019 16:00:58.0	yes
20	(18) J134844.7693+024949.07	COS/FUV COS/NUV	3	17-Jun-2019 16:01:00.0	yes
10	(16) J140023.1006+433852.04	COS/FUV COS/NUV	3	17-Jun-2019 16:01:01.0	yes
09	(14) J145502.4609+085002.03	COS/FUV COS/NUV	3	17-Jun-2019 16:01:03.0	yes
28	(14) J145502.4609+085002.03	COS/NUV	1	17-Jun-2019 16:01:04.0	yes

77 Total Orbits Used

ABSTRACT

Far beyond the visible star formation in galaxies, the circumgalactic medium (CGM) regulates the gaseous inflows and outflows that compete continuously over billions of years to drive galaxy formation and evolution. Successful programs carried out with the Cosmic Origins Spectrograph on HST have resolved the bulk baryonic content, spatial distribution, and chemical enrichment of the CGM surrounding z~0 galaxies with a diverse range of stellar masses and star formation histories. Complimentary studies with optical spectrometers on the ground have probed the CGM of star-forming galaxies and the massive galaxies hosting quasars at z~2. With this proposal, we will examine evolution (or lack thereof) in the CGM of star-forming z~1 galaxies (ELGs or emission-line galaxies) -- the central focus of several major, upcoming cosmological experiments (e.g. DESI, Euclid).

We have identified 25 ELGs in the foreground of 24 z~1, bright quasars that will sample the CGM of star-forming galaxies at the peak epoch of galaxy evolution, when average star formation rates were higher than today and when z ~ 0 passive galaxies were likely undergoing their quenching. With this study, we will characterize the ionization state, gas kinematics, and covering fraction of the enriched gas that will ultimately go on to form the bulk of today's visible stars. Our sample will combine with a Cycle 24 sample of Large Red Galaxies to form a systematic study of the CGM in star forming and passive galaxies and establish a 4-6 Gyr timeline in CGM/galaxy interactions.

OBSERVING DESCRIPTION

As described in our Phase I proposal, we wish to obtain spectra for each of our quasars from the rest-frame Lyman limit of the target galaxies (~1370A observed) to approximately 1330A rest (or ~2450A observed).

This wavelength coverage is to be achieved by observing with (i) the G160M grating with CENWAVE=1577A, (ii) the G230L grating with CENWAVE=3000A and (iii) the G230L grating with CENWAVE=3360A. We then estimated exposure times to achieve S/N=10 per R=2500 resolution element at 1500A, 1880A, and 2250A respectively. For the G160M grating, this implies binning up the spectra; we chose this grating for its higher effective area.

For acquisitions, we adopted the GALEX NUV magnitudes reported for each QSO and assumed a flat continuum. We recover very similar results if we adopt a QSO spectrum at z=1. The ETC for each is given and our brightest ~5 sources required MIRROR-B to avoid WARNINGs.

For the spectra, we ran the ETC for our brightest source to check for WARNINGs and the minimum buffer time. In all cases, we use BUF times that are considerably larger than these minima. Here are the ETCs for the spectra (also given in the Visits):

G160M
http://etc.stsci.edu/etc/results/COS.sp.1009367/

G230L_3000
http://etc.stsci.edu/etc/results/COS.sp.1009365/

G230L_3360
http://etc.stsci.edu/etc/results/COS.sp.1009366/

All G160M data were taken with all FP-POS.
With only a few exceptions, the G230L data were
taken with 2 or more FP-POS (mainly 2 orbit targets
where the extra overhead was deemed not worth it).

We found overheads were minimized by taking NUV spectra
after the AQC images (i.e. Orbit 1) and by starting the G160M
spectra at the start of Orbit 2 (or 3).

Visit

Proposal 15180, J003413.0453-010026.92 (13), completed Mon Jun 17 20:01:04 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J003413.0453-010026.92 (13)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

(J003413.0453-010026.92 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J003413.0453-010026.92 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J003413.0453-010026.92 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

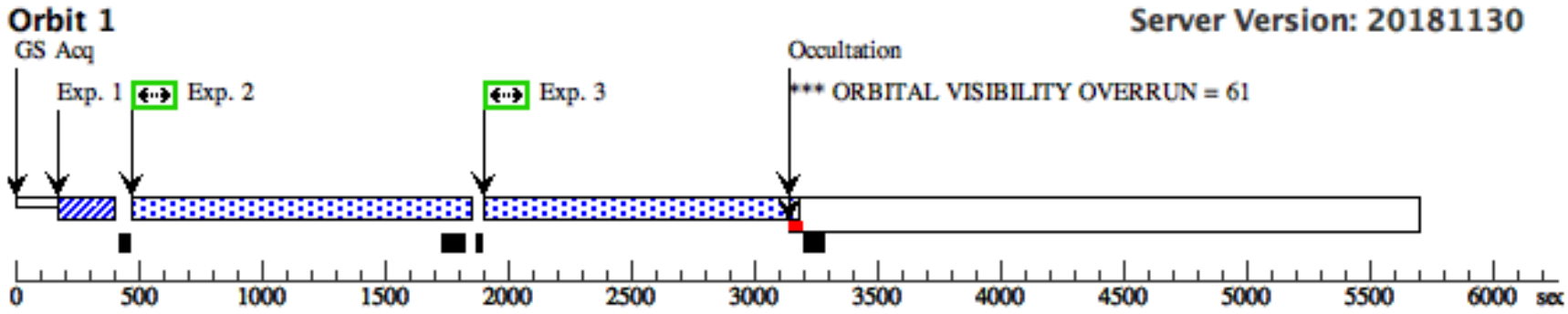
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(20)	J003413.0453-010026.92	RA: 00 34 13.0453 (8.5543554d)		V=18.07+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO20	Dec: -01 00 26.92 (-1.00748d)		Magnitude is NUV	
		Equinox: J2000			

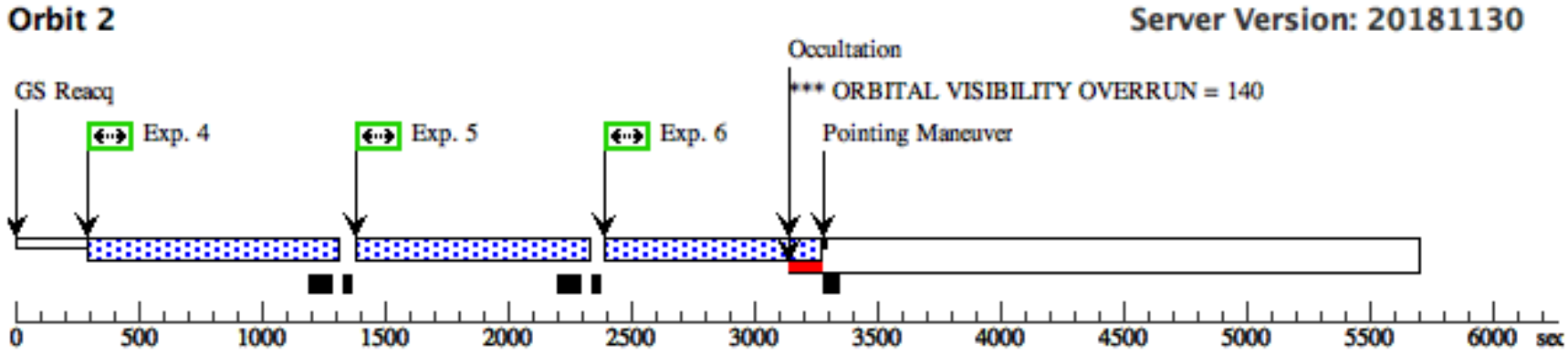
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

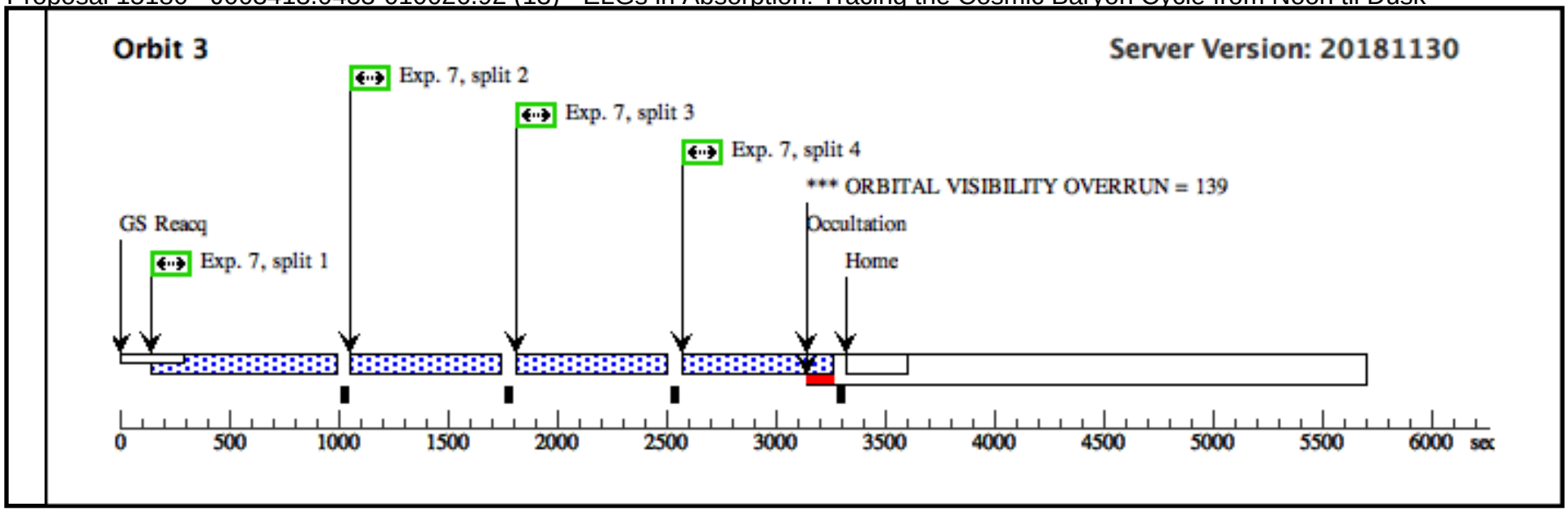
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1009364)	(20) J003413.0453-010026.92	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				7 Secs (7 Secs) *[==>]*	***[1]***
2	G230_3000 (COS.sp.1009365)	(20) J003413.0453-010026.92	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1155; FP-POS=1			1265 Secs (1265 Secs) *[==>]*	***[1]***
3	G230_3000 (COS.sp.1009365)	(20) J003413.0453-010026.92	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1700; FP-POS=2			1265 Secs (1265 Secs) *[==>]*	***[1]***
4	G230_3000 (COS.sp.1009365)	(20) J003413.0453-010026.92	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=895; FP-POS=3			1005 Secs (1005 Secs) *[==>]*	***[2]***
5	G230_3360 (COS.sp.1009366)	(20) J003413.0453-010026.92	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=750; FP-POS=1			860 Secs (860 Secs) *[==>]*	***[2]***
6	G230_3360 (COS.sp.1009366)	(20) J003413.0453-010026.92	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=2			860 Secs (860 Secs) *[==>]*	***[2]***
7	G160M (COS.sp.1009367)	(20) J003413.0453-010026.92	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			642 Secs (2568 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[3]***

Orbit Structure



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Server Version: 20181130
Exp. 7, split 2
Exp. 7, split 3
Exp. 7, split 4
*** ORBITAL VISIBILITY OVERRUN = 139
GS Reacq
Occultation
Exp. 7, split 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15180, J081735.0757+223717.75 (01), completed Mon Jun 17 20:01:05 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J081735.0757+223717.75 (01)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

(J081735.0757+223717.75 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J081735.0757+223717.75 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J081735.0757+223717.75 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

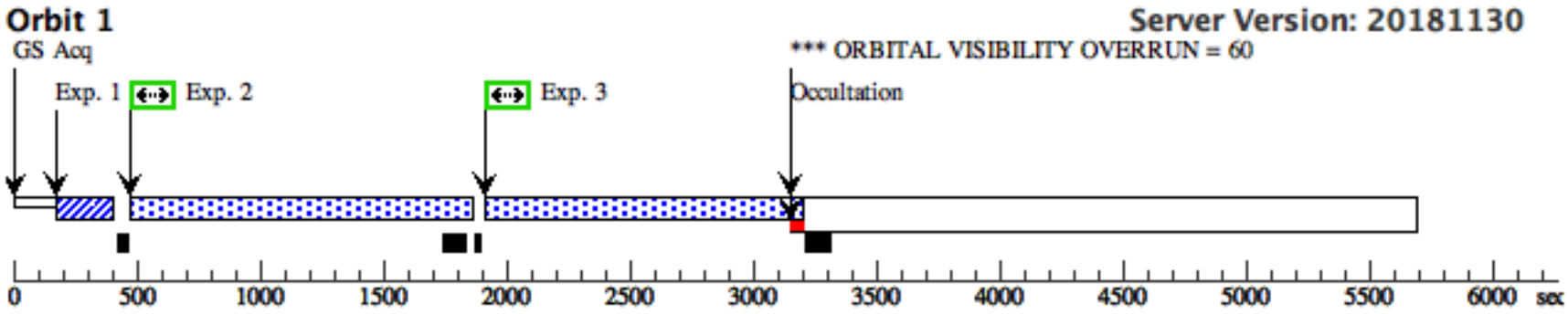
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(10)	J081735.0757+223717.75	RA: 08 17 35.0757 (124.3961487d)		V=18.27+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO10	Dec: +22 37 17.75 (22.62160d)		Magnitude is NUV	
		Equinox: J2000			

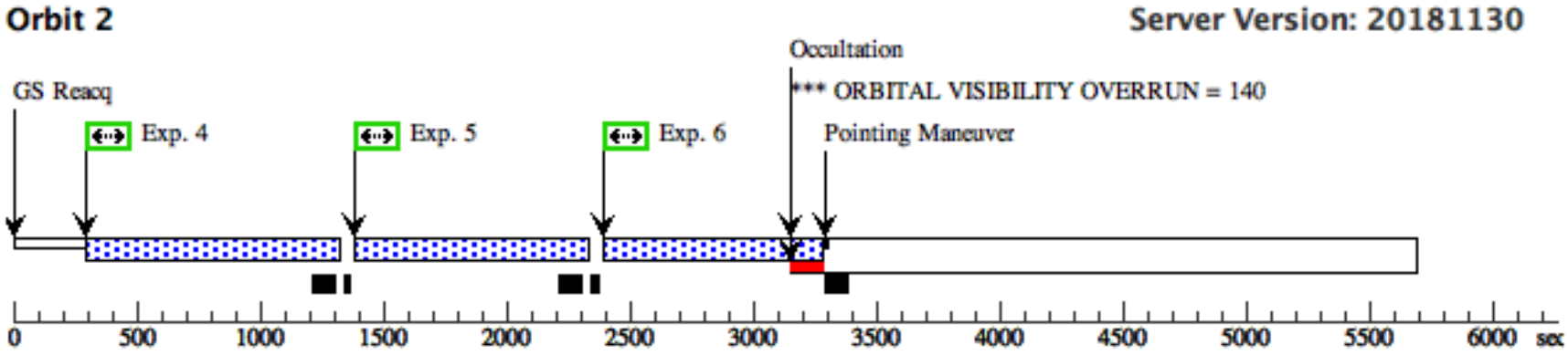
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

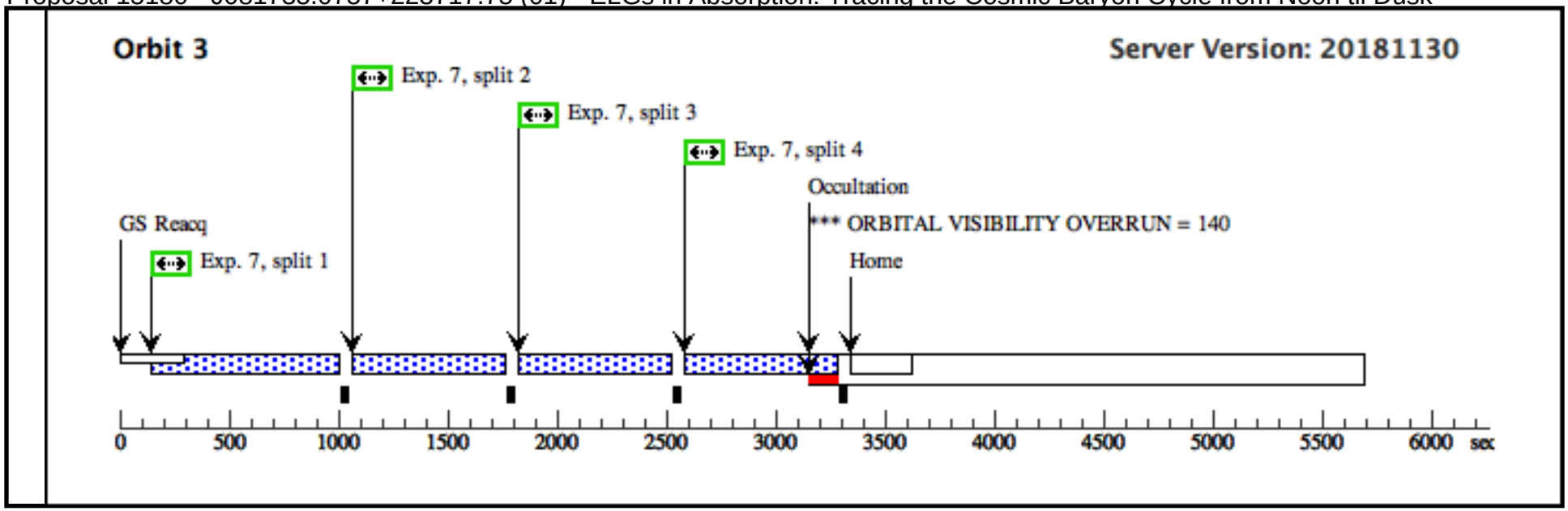
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1008463)	(10) J081735.0757+223717.75	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				8 Secs (8 Secs) *[==>]*	*[1]*
2	G230_3000 (COS.sp.1009365)	(10) J081735.0757+223717.75	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1161; FP-POS=1			1271 Secs (1271 Secs) *[==>]*	*[1]*
3	G230_3000 (COS.sp.1009365)	(10) J081735.0757+223717.75	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1400; FP-POS=2			1271 Secs (1271 Secs) *[==>]*	*[1]*
4	G230_3000 (COS.sp.1009365)	(10) J081735.0757+223717.75	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=915; FP-POS=3			1015 Secs (1015 Secs) *[==>]*	*[2]*
5	G230_3360 (COS.sp.1009366)	(10) J081735.0757+223717.75	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=762; FP-POS=1			862 Secs (862 Secs) *[==>]*	*[2]*
6	G230_3360 (COS.sp.1009366)	(10) J081735.0757+223717.75	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1000; FP-POS=2			873 Secs (873 Secs) *[==>]*	*[2]*
7	G160M (COS.sp.1009367)	(10) J081735.0757+223717.75	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			646 Secs (2584 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	*[3]*

Orbit Structure



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Exp. 7, split 2
Exp. 7, split 3
Exp. 7, split 4
Occultation
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GS Reacq
Exp. 7, split 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15180, J085944.6118+411719.88 (08), completed Mon Jun 17 20:01:05 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J085944.6118+411719.88 (08)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

Fixed Targets

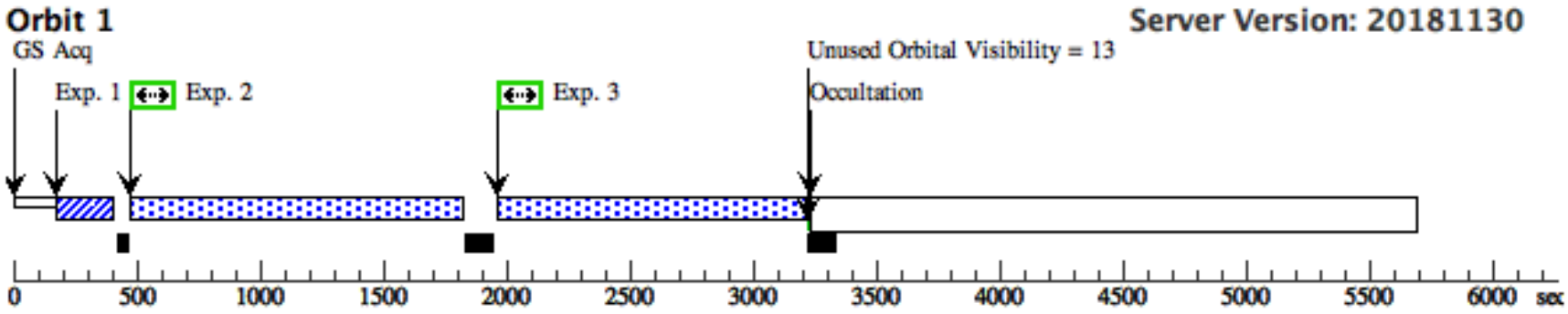
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(11)	J085944.6118+411719.88	RA: 08 59 44.6118 (134.9358825d)		V=18.22+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO11	Dec: +41 17 19.88 (41.28886d)		Magnitude is NUV	
		Equinox: J2000			

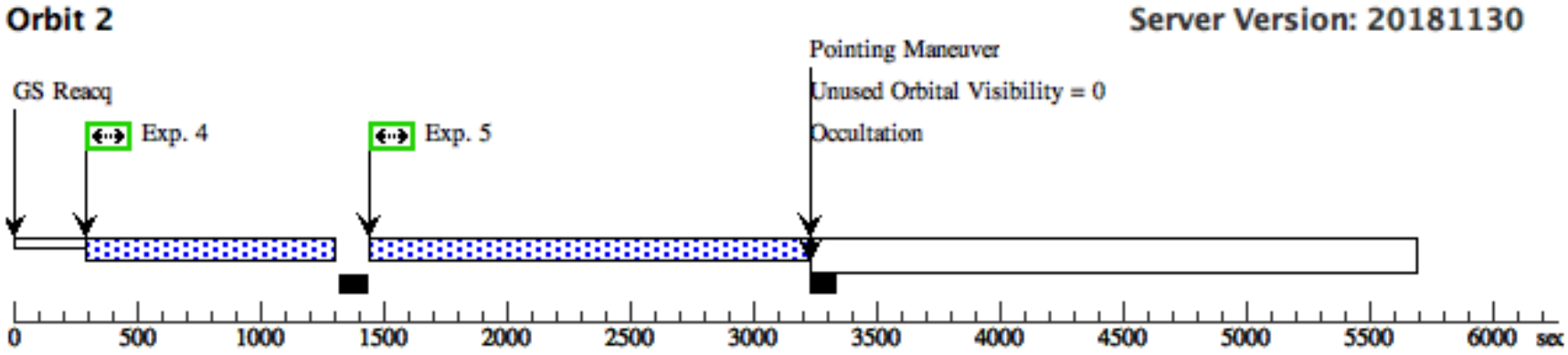
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

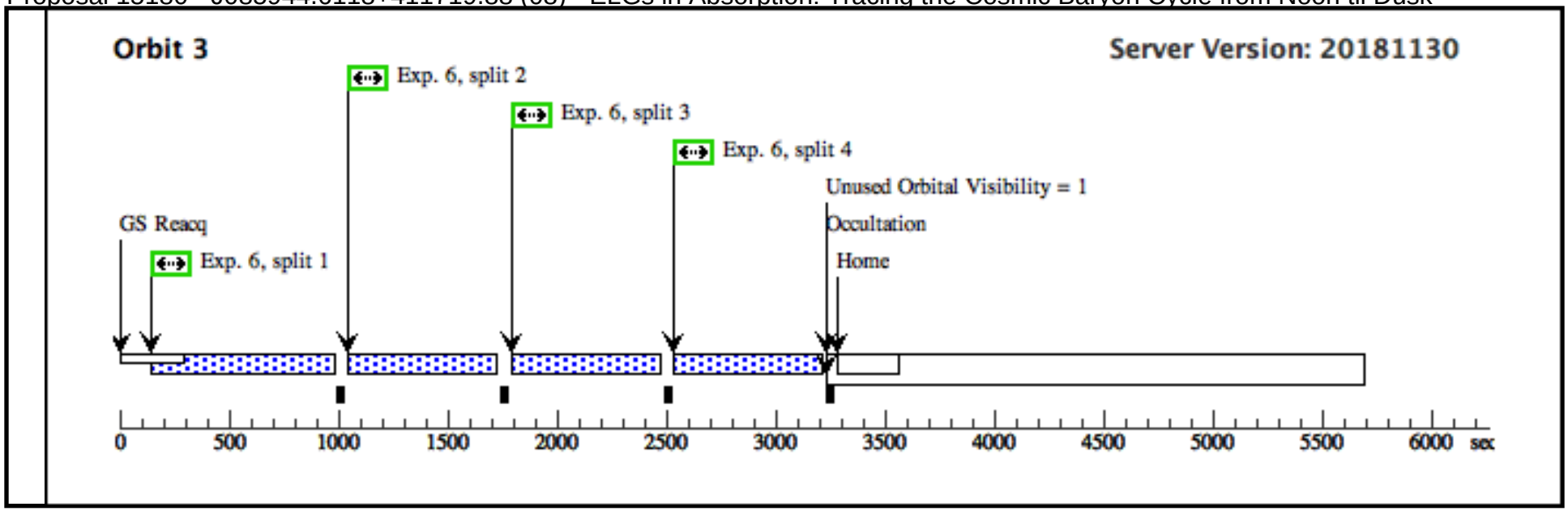
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1009378)	(11) J085944.6118+411719.88	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				8 Secs (8 Secs) *[==>]*	*[1]*
2	G230_3000 (COS.sp.1009365)	(11) J085944.6118+411719.88	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1197; FP-POS=1			1312 Secs (1232 Secs) *[==>1232.0 Secs]*	*[1]*
3	G230_3000 (COS.sp.1009365)	(11) J085944.6118+411719.88	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1197; FP-POS=2			1312 Secs (1232 Secs) *[==>1232.0 Secs]*	*[1]*
4	G230_3000 (COS.sp.1009365)	(11) J085944.6118+411719.88	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=989; FP-POS=3			1099 Secs (991 Secs) *[==>991.0 Secs]*	*[2]*
5	G230_3360 (COS.sp.1009366)	(11) J085944.6118+411719.88	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=1			1800 Secs (1692 Secs) *[==>1692.0 Secs]*	*[2]*
6	G160M (COS.sp.1009367)	(11) J085944.6118+411719.88	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			666 Secs (2524 Secs) *[==>631.0 Secs (Split 1)]* *[==>631.0 Secs (Split 2)]* *[==>631.0 Secs (Split 3)]* *[==>631.0 Secs (Split 4)]*	*[3]*

Orbit Structure






Orbit 3
Server Version: 20181130
Exp. 6, split 2
Exp. 6, split 3
Exp. 6, split 4
Unused Orbital Visibility = 1
Occultation
Home
GS Reacq
Exp. 6, split 1
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15180, J090916.0876+163522.51 (15), completed Mon Jun 17 20:01:05 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J090916.0876+163522.51 (15)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

Fixed Targets

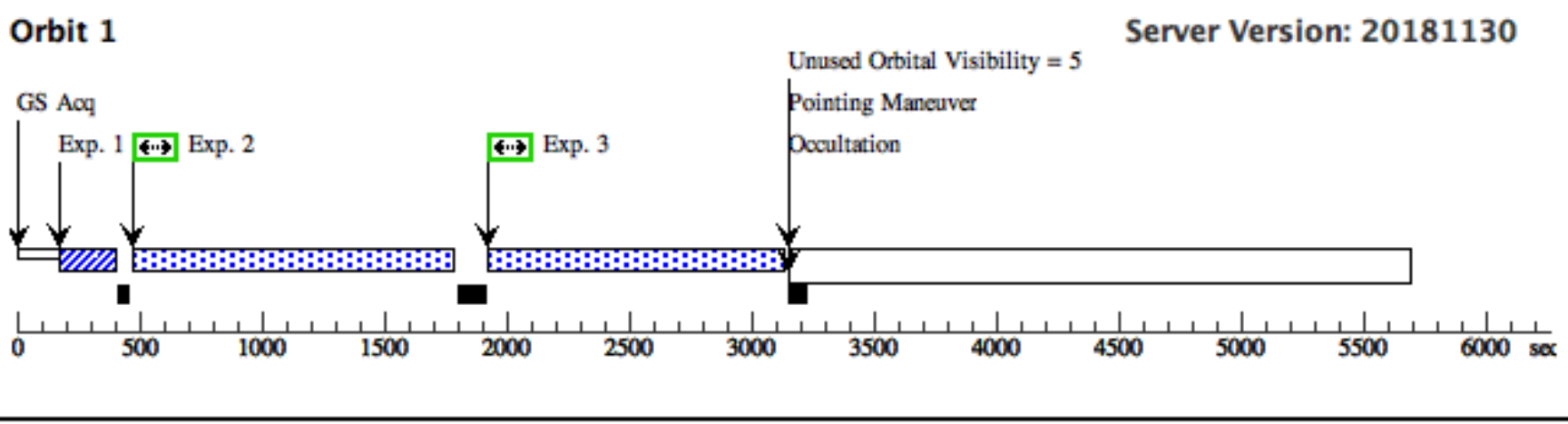
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	J090916.0876+163522.51	RA: 09 09 16.0876 (137.3170317d)		V=17.86+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO5	Dec: +16 35 22.51 (16.58959d)		Magnitude is NUV	
		Equinox: J2000			

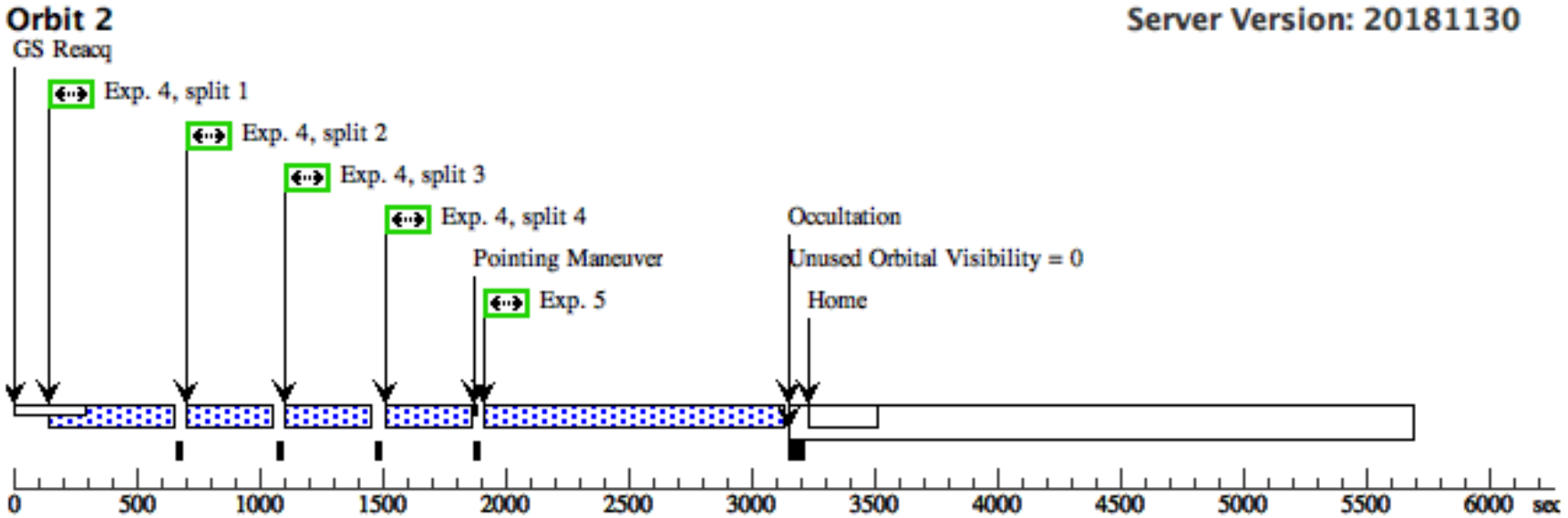
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1009380)	(5) J090916.0876+163522.51	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				6 Secs (6 Secs) *[==>]*	*[1]*
2	G230_3000 (COS.sp.1009365)	(5) J090916.0876+163522.51	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1163; FP-POS=1			1273 Secs (1197 Secs) *[==>1197.0 Secs]*	*[1]*
3	G230_3000 (COS.sp.1009365)	(5) J090916.0876+163522.51	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1800; FP-POS=2			1273 Secs (1197 Secs) *[==>1197.0 Secs]*	*[1]*
4	G160M (COS.sp.1009367)	(5) J090916.0876+163522.51	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			326 Secs (1196 Secs) *[==>299.0 Secs (Split 1)]* *[==>299.0 Secs (Split 2)]* *[==>299.0 Secs (Split 3)]* *[==>299.0 Secs (Split 4)]*	*[2]*
5	G230_3360 (COS.sp.1009366)	(5) J090916.0876+163522.51	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=1			997 Secs (970 Secs) *[==>970.0 Secs]*	*[2]*

Orbit Structure





Visit

Proposal 15180, J091840.7520+290631.85_A (22), failed Mon Jun 17 20:01:05 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J091840.7520+290631.85_A (22)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

(J091840.7520+290631.85_A (22)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(J091840.7520+290631.85_A (22)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J091840.7520+290631.85_A (22)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J091840.7520+290631.85_A (22)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

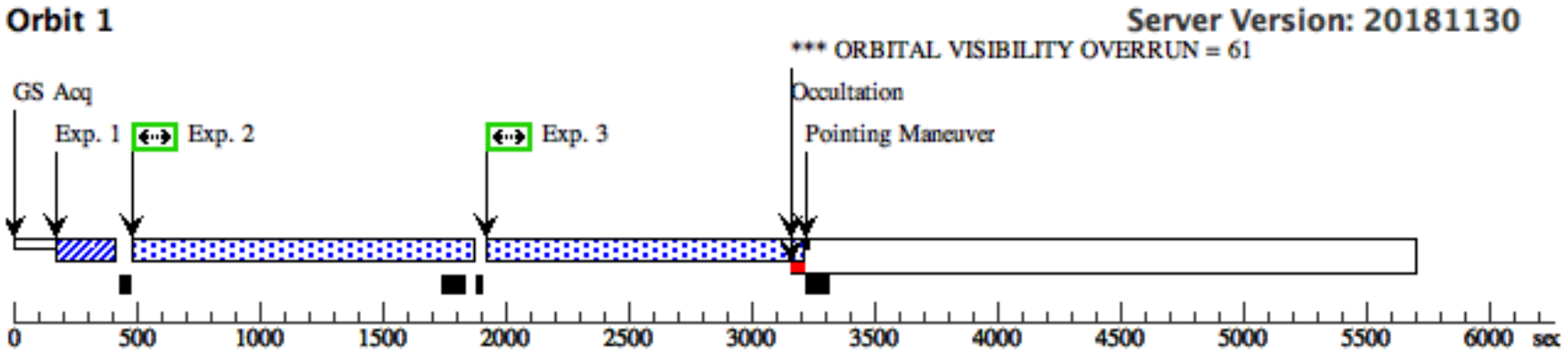
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	J091840.7520+290631.85	RA: 09 18 40.7520 (139.6698000d)		V= 18.67+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO3	Dec: +29 06 31.85 (29.10885d)		Magnitude is NUV	
		Equinox: J2000			

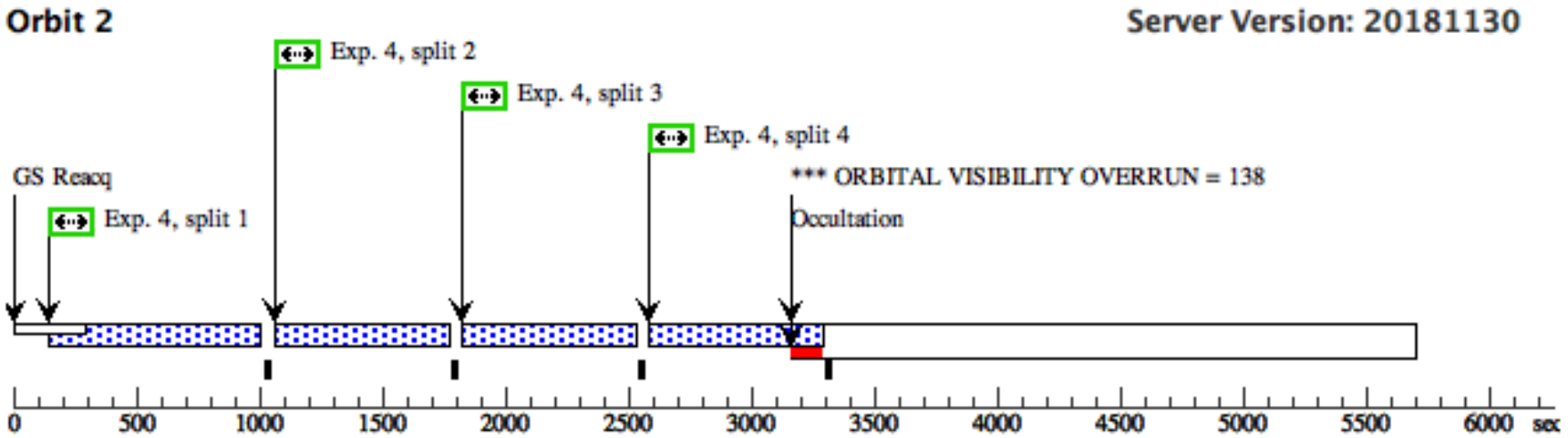
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

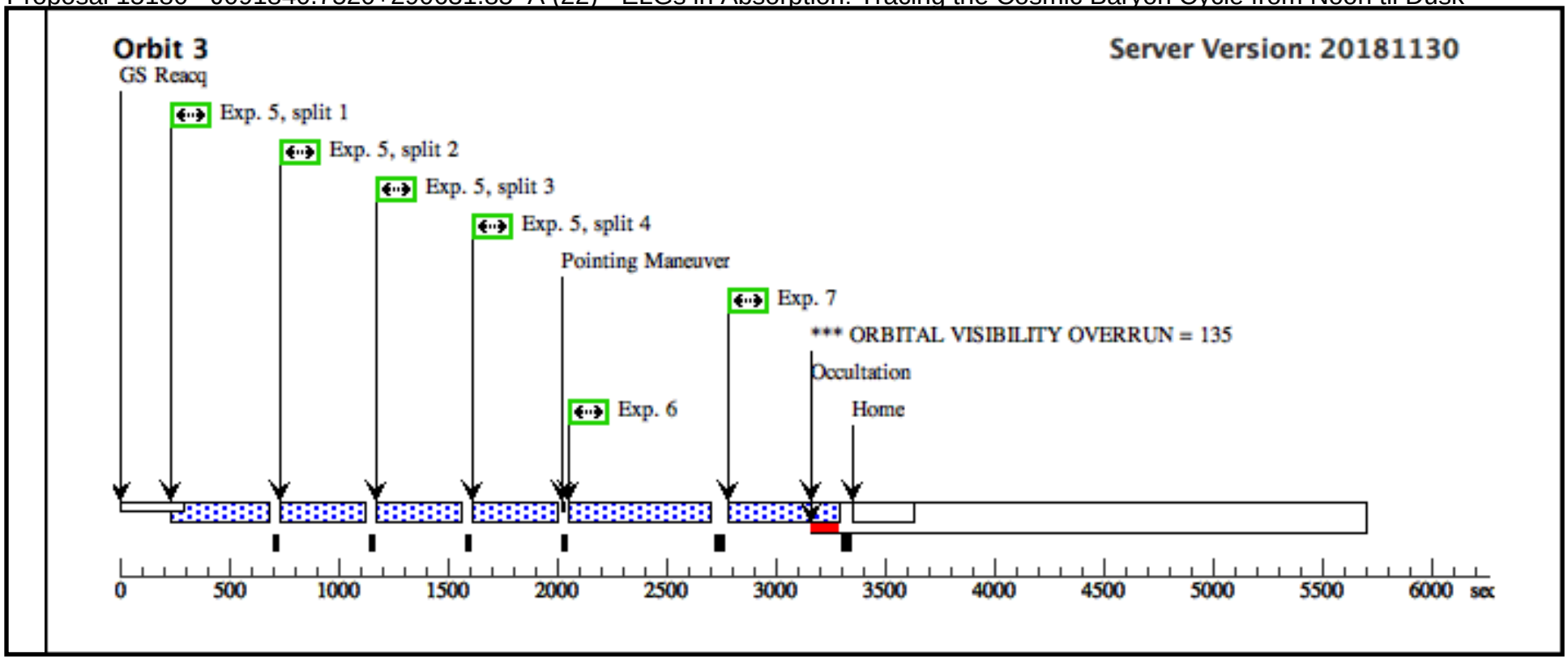
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1009218)	(3) J091840.7520+290631.85	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs) *[==>]*	*[1]*
2	G230_3360 (COS.sp.1009366)	(3) J091840.7520+290631.85	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1161; FP-POS=1			1271 Secs (1271 Secs) *[==>]*	*[1]*
3	G230_3360 (COS.sp.1009366)	(3) J091840.7520+290631.85	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1500; FP-POS=2			1272 Secs (1272 Secs) *[==>]*	*[1]*
4	G160M (COS.sp.1009367)	(3) J091840.7520+290631.85	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=21832; FP-POS=ALL			655 Secs (2620 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	*[2]*
5	G160M (COS.sp.1009367)	(3) J091840.7520+290631.85	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=21832; FP-POS=ALL			335 Secs (1340 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	*[3]*
6	G230_3360 (COS.sp.1009366)	(3) J091840.7520+290631.85	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=3			400 Secs (400 Secs) *[==>]*	*[3]*
7	G230_3000 (COS.sp.1009365)	(3) J091840.7520+290631.85	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1763; FP-POS=1			418 Secs (418 Secs) *[==>]*	*[3]*

Orbit Structure






Orbit 3
Server Version: 20181130
GS Reacq
Exp. 5, split 1
Exp. 5, split 2
Exp. 5, split 3
Exp. 5, split 4
Pointing Maneuver
Exp. 7
*** ORBITAL VISIBILITY OVERRUN = 135
Occultation
Exp. 6
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15180, J091840.7520+290631.85_A (27), completed Mon Jun 17 20:01:05 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J091840.7520+290631.85_A (27)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

Fixed Targets

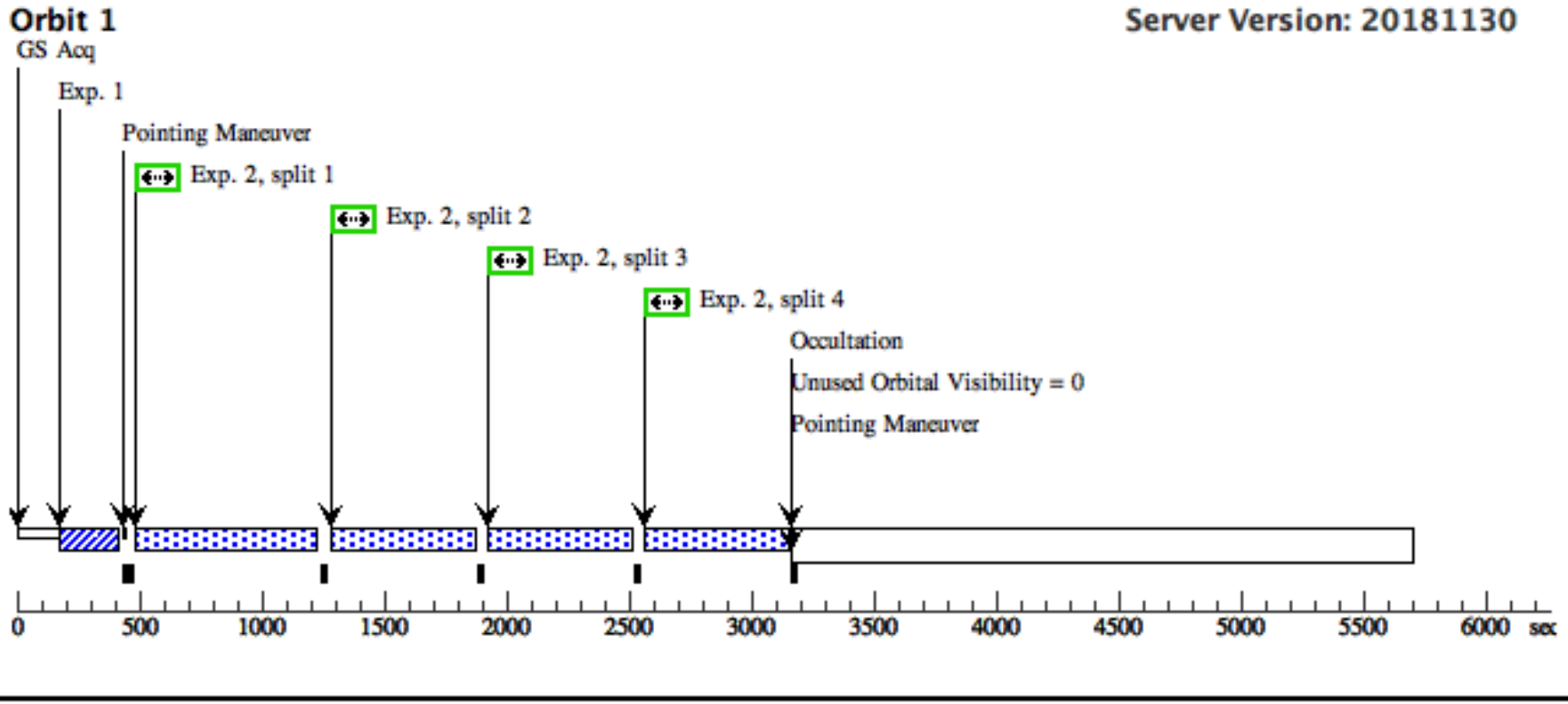
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	J091840.7520+290631.85	RA: 09 18 40.7520 (139.6698000d)		V= 18.67+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO3	Dec: +29 06 31.85 (29.10885d)		Magnitude is NUV	
		Equinox: J2000			

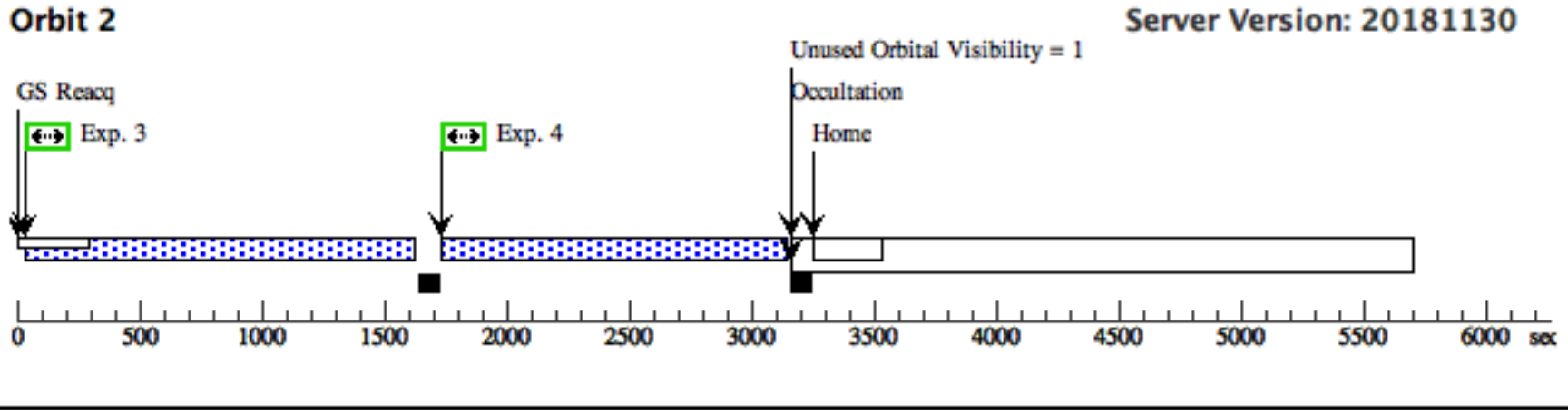
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1009218)	(3) J091840.7520+290631.85	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs) *[==>]*	 ***[1]***
2	G160M (COS.sp.1009367)	(3) J091840.7520+290631.85	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=21832; FP-POS=ALL			550 Secs (2140 Secs) *[==>535.0 Secs (Split 1)]* *[==>535.0 Secs (Split 2)]* *[==>535.0 Secs (Split 3)]* *[==>535.0 Secs (Split 4)]*	 ***[1]***
3	G230_3360 (COS.sp.1009366)	(3) J091840.7520+290631.85	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=3			400 Secs (1309 Secs) *[==>1309.0 Secs]*	 ***[2]***
4	G230_3000 (COS.sp.1009365)	(3) J091840.7520+290631.85	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1763; FP-POS=1			418 Secs (1327 Secs) *[==>1327.0 Secs]*	 ***[2]***

Orbit Structure





Visit

Proposal 15180, J091840.7520+290631.85_B (23), completed Mon Jun 17 20:01:05 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/NUV

Special Requirements: (none)

Diagnostics

(J091840.7520+290631.85_B (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J091840.7520+290631.85_B (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

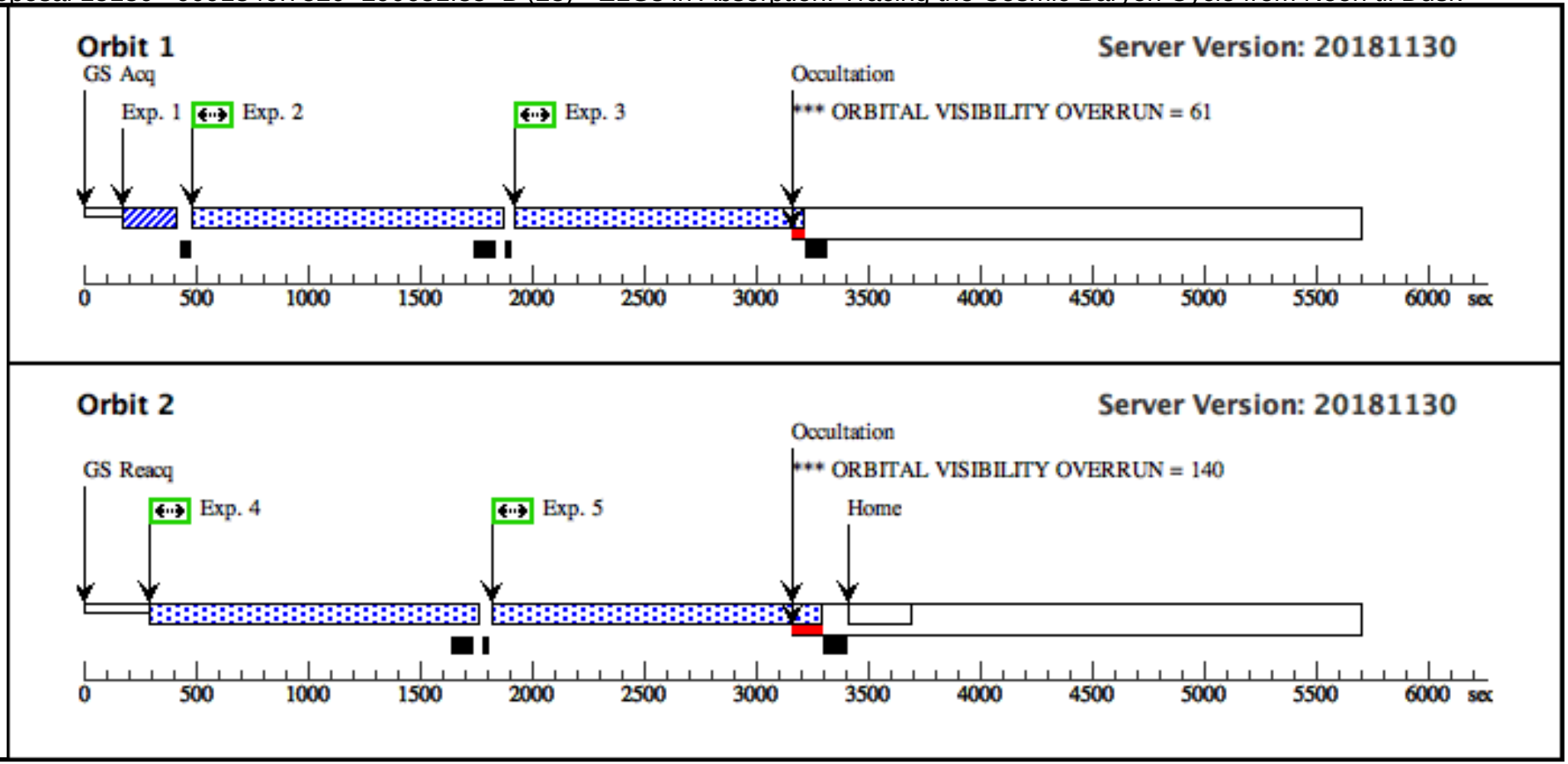
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	J091840.7520+290631.85	RA: 09 18 40.7520 (139.6698000d)		V= 18.67+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO3	Dec: +29 06 31.85 (29.10885d)		Magnitude is NUV	
		Equinox: J2000			

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	ACQ (COS.ta.1009218)	(3) J091840.7520+290631.85	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs)	
								[==>]	***[1]***
2	G230_3000 (COS.sp.1009365)	(3) J091840.7520+290631.85	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1161; FP-POS=1			1271 Secs (1271 Secs)	
								[==>]	***[1]***
3	G230_3000 (COS.sp.1009365)	(3) J091840.7520+290631.85	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1500; FP-POS=2			1272 Secs (1272 Secs)	
								[==>]	***[1]***
4	G230_3000 (COS.sp.1009365)	(3) J091840.7520+290631.85	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1344; FP-POS=3			1454 Secs (1454 Secs)	
								[==>]	***[2]***
5	G230_3000 (COS.sp.1009365)	(3) J091840.7520+290631.85	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1500; FP-POS=4			1454 Secs (1454 Secs)	
								[==>]	***[2]***

Orbit Structure



Visit

Proposal 15180, J092756.8835+253007.79 (19), completed Mon Jun 17 20:01:05 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J092756.8835+253007.79 (19)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

Fixed Targets

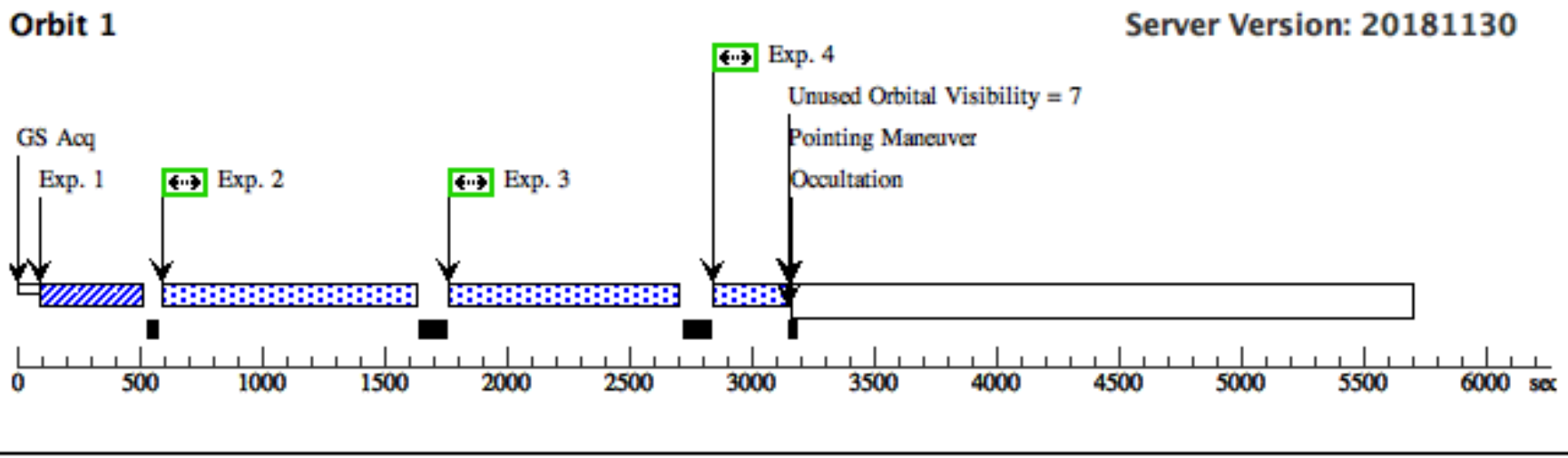
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	J092756.8835+253007.79	RA: 09 27 56.8835 (141.9870146d)		V=17.31+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO9	Dec: +25 30 7.79 (25.50216d)		Magnitude is NUV	
		Equinox: J2000			

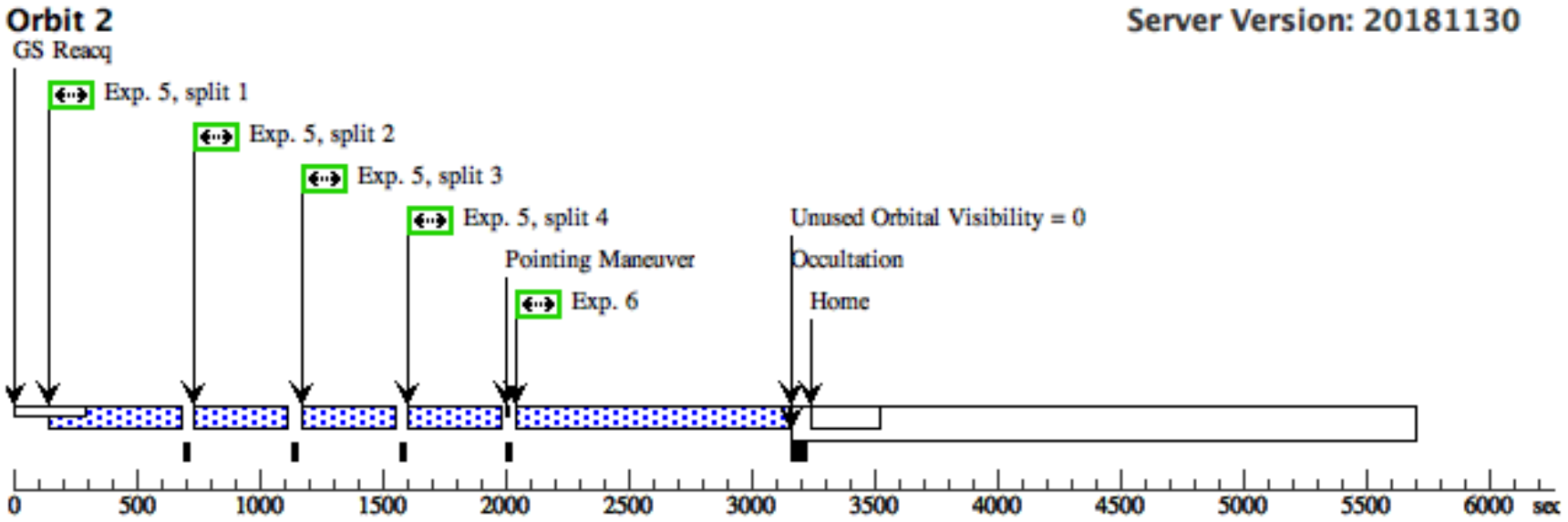
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1008679)	(9) J092756.8835+253007.79	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				64 Secs (64 Secs) *[==>]*	***[1]***
2	G230_3000 (COS.sp.1009365)	(9) J092756.8835+253007.79	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=907; FP-POS=1			1007 Secs (927 Secs) *[==>927.0 Secs]*	***[1]***
3	G230_3000 (COS.sp.1009365)	(9) J092756.8835+253007.79	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=907; FP-POS=2			1007 Secs (927 Secs) *[==>927.0 Secs]*	***[1]***
4	G230_3360 (COS.sp.1009366)	(9) J092756.8835+253007.79	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=2			291 Secs (211 Secs) *[==>211.0 Secs]*	***[1]***
5	G160M (COS.sp.1009367)	(9) J092756.8835+253007.79	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			358 Secs (1324 Secs) *[==>331.0 Secs (Split 1)]* *[==>331.0 Secs (Split 2)]* *[==>331.0 Secs (Split 3)]* *[==>331.0 Secs (Split 4)]*	***[2]***
6	G230_3360 (COS.sp.1009366)	(9) J092756.8835+253007.79	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=1			883 Secs (856 Secs) *[==>856.0 Secs]*	***[2]***

Orbit Structure





Visit

Proposal 15180, J095456.8213+174331.23 (11), completed Mon Jun 17 20:01:05 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J095456.8213+174331.23 (11)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

Fixed Targets

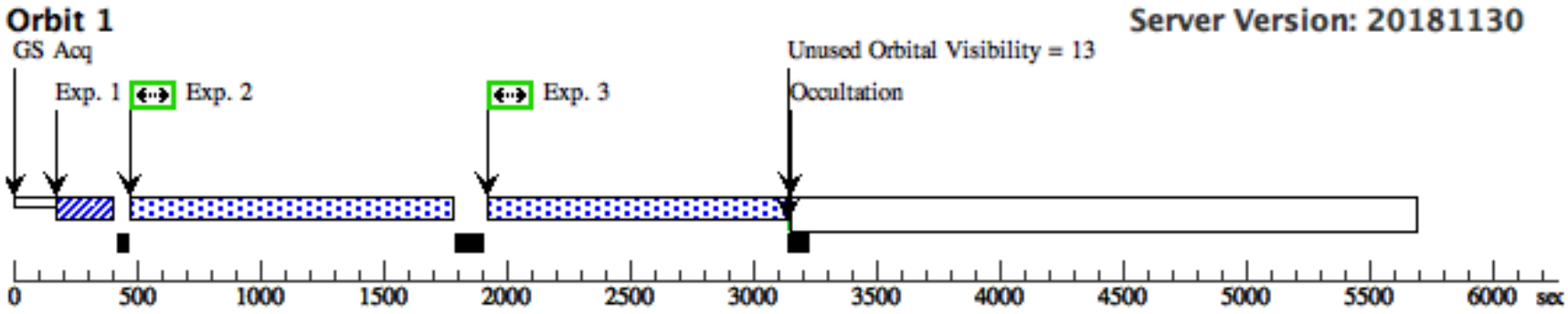
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(17)	J095456.8213+174331.23	RA: 09 54 56.8213 (148.7367554d)		V=18.18+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO17	Dec: +17 43 31.23 (17.72534d)		Magnitude is NUV	
		Equinox: J2000			

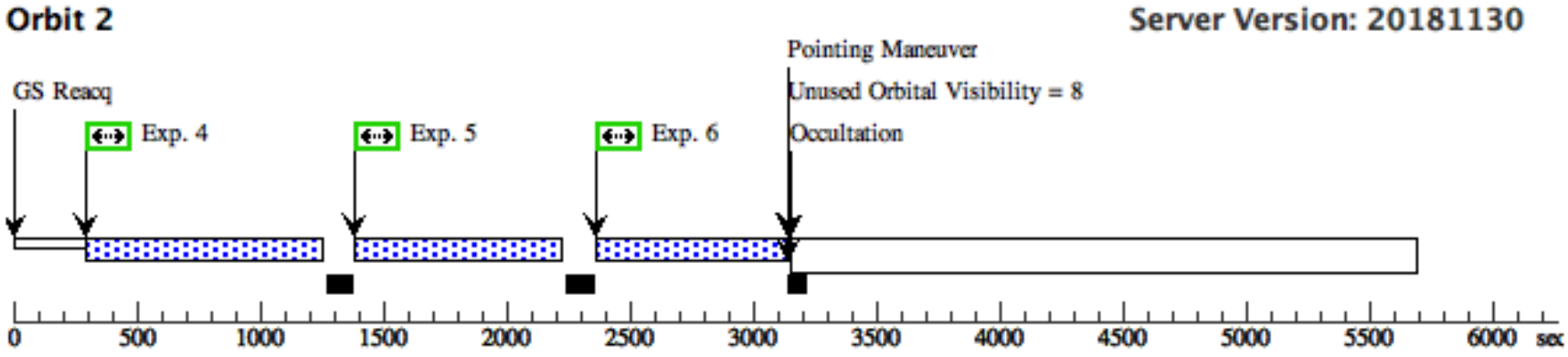
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

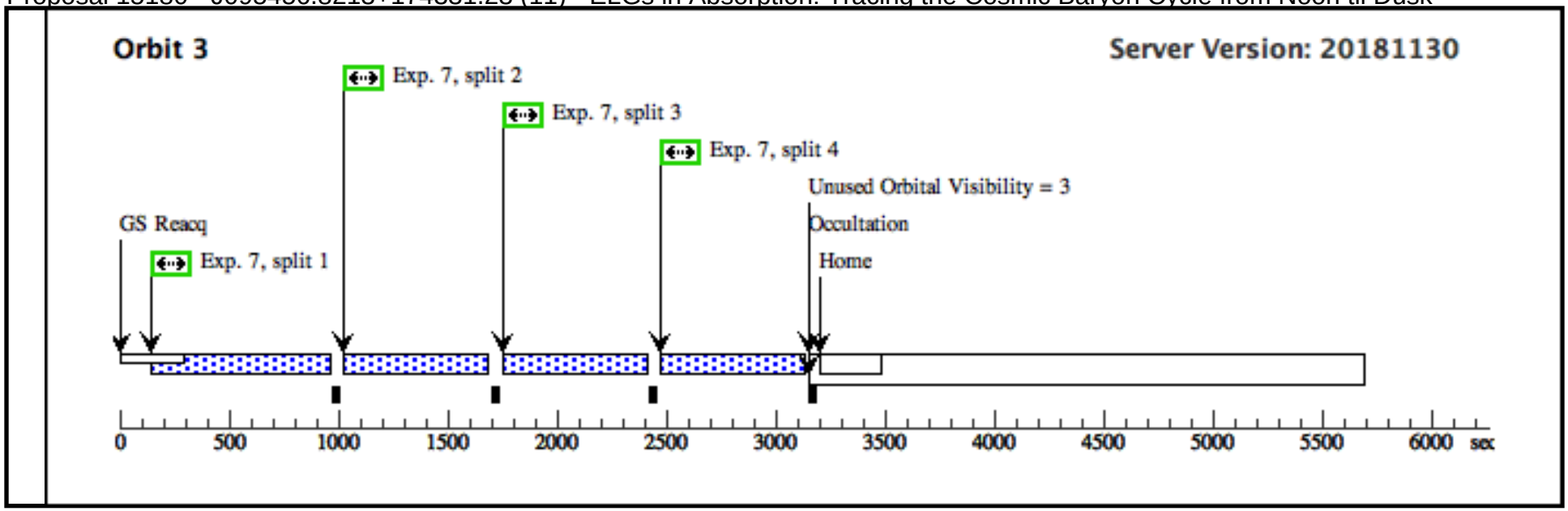
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1009381)	(17) J095456.8213+174331.23	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				8 Secs (8 Secs) *[==>]*	*[1]*
2	G230_3000 (COS.sp.1009365)	(17) J095456.8213+174331.23	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1171; FP-POS=1			1271 Secs (1191 Secs) *[==>1191.0 Secs]*	*[1]*
3	G230_3000 (COS.sp.1009365)	(17) J095456.8213+174331.23	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1700; FP-POS=2			1271 Secs (1191 Secs) *[==>1191.0 Secs]*	*[1]*
4	G230_3000 (COS.sp.1009365)	(17) J095456.8213+174331.23	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=945; FP-POS=3			1045 Secs (945 Secs) *[==>945.0 Secs]*	*[2]*
5	G230_3360 (COS.sp.1009366)	(17) J095456.8213+174331.23	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=744; FP-POS=1			854 Secs (754 Secs) *[==>754.0 Secs]*	*[2]*
6	G230_3360 (COS.sp.1009366)	(17) J095456.8213+174331.23	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1200; FP-POS=2			850 Secs (750 Secs) *[==>750.0 Secs]*	*[2]*
7	G160M (COS.sp.1009367)	(17) J095456.8213+174331.23	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			645 Secs (2440 Secs) *[==>610.0 Secs (Split 1)]* *[==>610.0 Secs (Split 2)]* *[==>610.0 Secs (Split 3)]* *[==>610.0 Secs (Split 4)]*	*[3]*

Orbit Structure






Orbit 3
Server Version: 20181130
Exp. 7, split 2
Exp. 7, split 3
Exp. 7, split 4
Unused Orbital Visibility = 3
GS Reacq
Occultation
Exp. 7, split 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15180, J100151.3428+280002.25 (16), completed Mon Jun 17 20:01:05 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J100151.3428+280002.25 (16)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

(J100151.3428+280002.25 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J100151.3428+280002.25 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

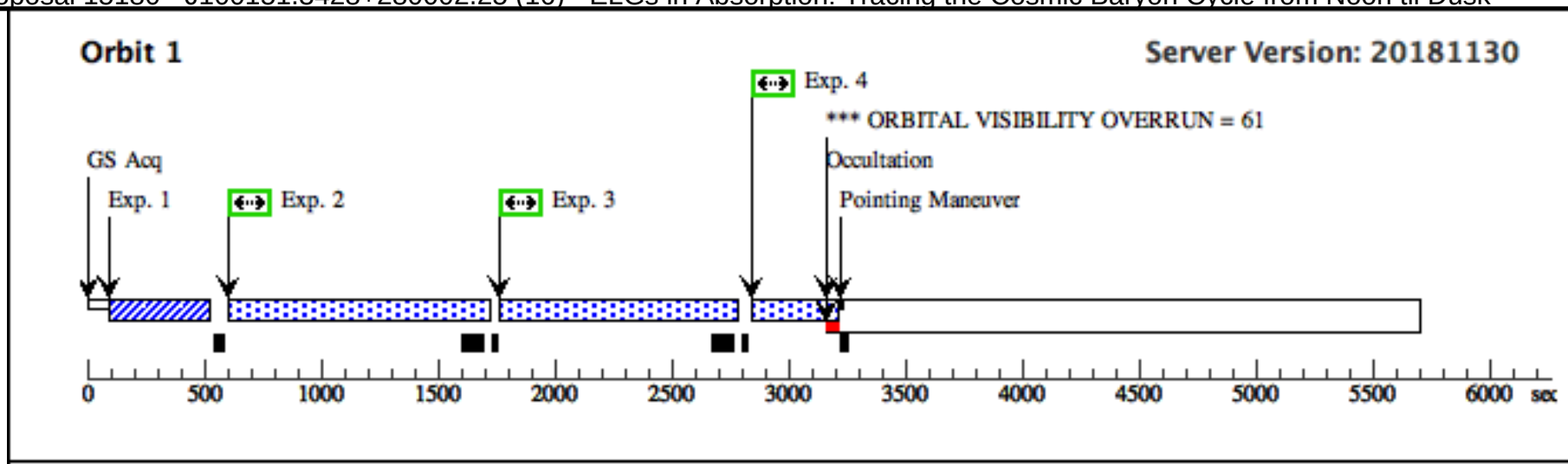
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(12)	J100151.3428+280002.25	RA: 10 01 51.3428 (150.4639283d)		V=17.39+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO12	Dec: +28 00 2.25 (28.00062d)		Magnitude is NUV	
		Equinox: J2000			

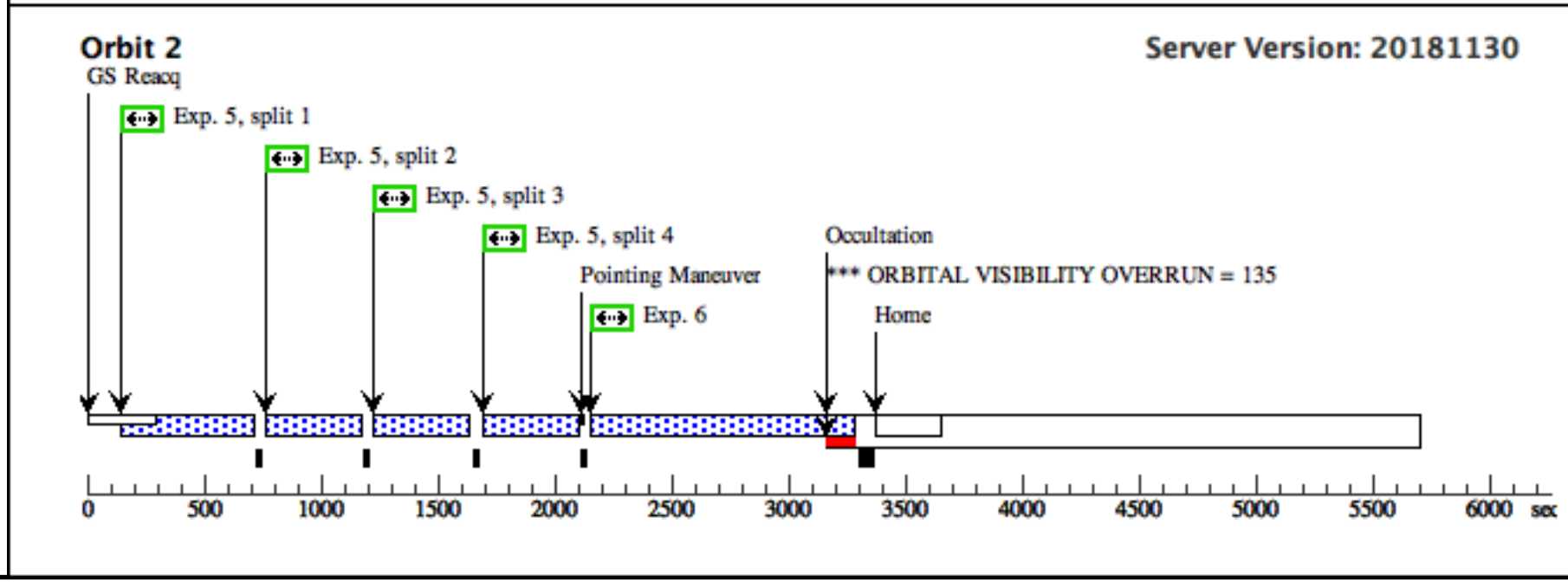
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1008651)	(12) J100151.3428+280002.25	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				69 Secs (69 Secs) *[==>]*	***[1]***
2	G230_3000 (COS.sp.1009365)	(12) J100151.3428+280002.25	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=907; FP-POS=1			1007 Secs (1007 Secs) *[==>]*	***[1]***
3	G230_3000 (COS.sp.1009365)	(12) J100151.3428+280002.25	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=907; FP-POS=2			1007 Secs (1007 Secs) *[==>]*	***[1]***
4	G230_3360 (COS.sp.1009366)	(12) J100151.3428+280002.25	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=2			281 Secs (281 Secs) *[==>]*	***[1]***
5	G160M (COS.sp.1009367)	(12) J100151.3428+280002.25	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			358 Secs (1432 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[2]***
6	G230_3360 (COS.sp.1009366)	(12) J100151.3428+280002.25	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=1			883 Secs (883 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 15180, J101810.9790+354239.48 (05), completed Mon Jun 17 20:01:05 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J101810.9790+354239.48 (05)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

Fixed Targets

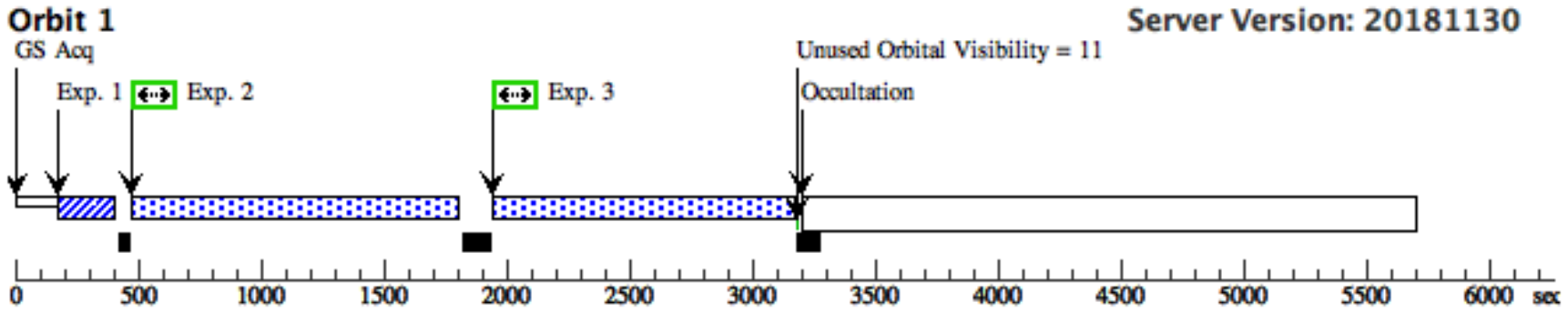
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	J101810.9790+354239.48	RA: 10 18 10.9790 (154.5457458d)		V=18.09+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO07	Dec: +35 42 39.48 (35.71097d)		Magnitude is NUV	
		Equinox: J2000			

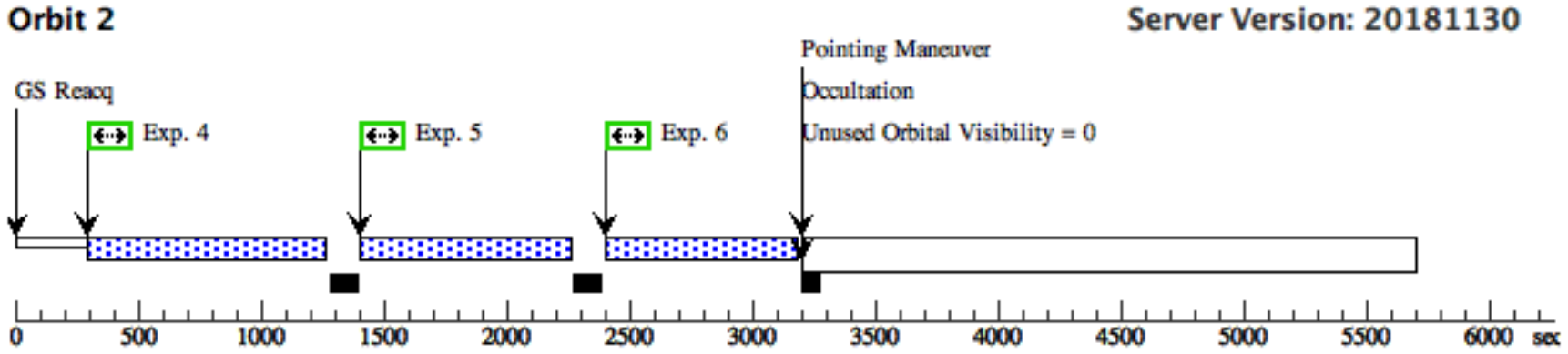
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

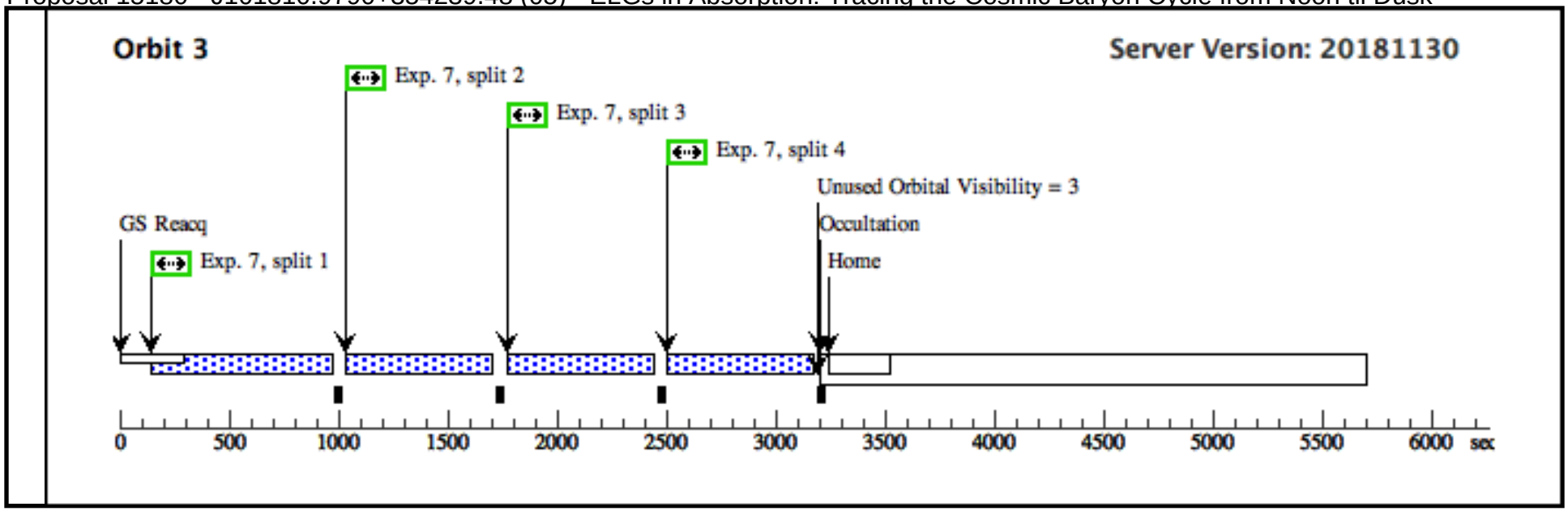
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1009382)	(7) J101810.9790+354239.48	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				7 Secs (7 Secs) *[==>]*	***[1]***
2	G230_3000 (COS.sp.1009365)	(7) J101810.9790+354239.48	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1178; FP-POS=1			1293 Secs (1215 Secs) *[==>1215.0 Secs]*	***[1]***
3	G230_3000 (COS.sp.1009365)	(7) J101810.9790+354239.48	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1500; FP-POS=2			1293 Secs (1215 Secs) *[==>1215.0 Secs]*	***[1]***
4	G230_3000 (COS.sp.1009365)	(7) J101810.9790+354239.48	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=940; FP-POS=3			1050 Secs (953 Secs) *[==>953.0 Secs]*	***[2]***
5	G230_3360 (COS.sp.1009366)	(7) J101810.9790+354239.48	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=756; FP-POS=1			866 Secs (769 Secs) *[==>769.0 Secs]*	***[2]***
6	G230_3360 (COS.sp.1009366)	(7) J101810.9790+354239.48	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1200; FP-POS=2			866 Secs (769 Secs) *[==>769.0 Secs]*	***[2]***
7	G160M (COS.sp.1009367)	(7) J101810.9790+354239.48	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			656 Secs (2484 Secs) *[==>621.0 Secs (Split 1)]* *[==>621.0 Secs (Split 2)]* *[==>621.0 Secs (Split 3)]* *[==>621.0 Secs (Split 4)]*	***[3]***

Orbit Structure






Orbit 3
Server Version: 20181130
Exp. 7, split 2
Exp. 7, split 3
Exp. 7, split 4
Unused Orbital Visibility = 3
GS Reacq
Occultation
Exp. 7, split 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15180, J101903.1274+101655.03 (04), completed Mon Jun 17 20:01:06 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J101903.1274+101655.03 (04)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

Fixed Targets

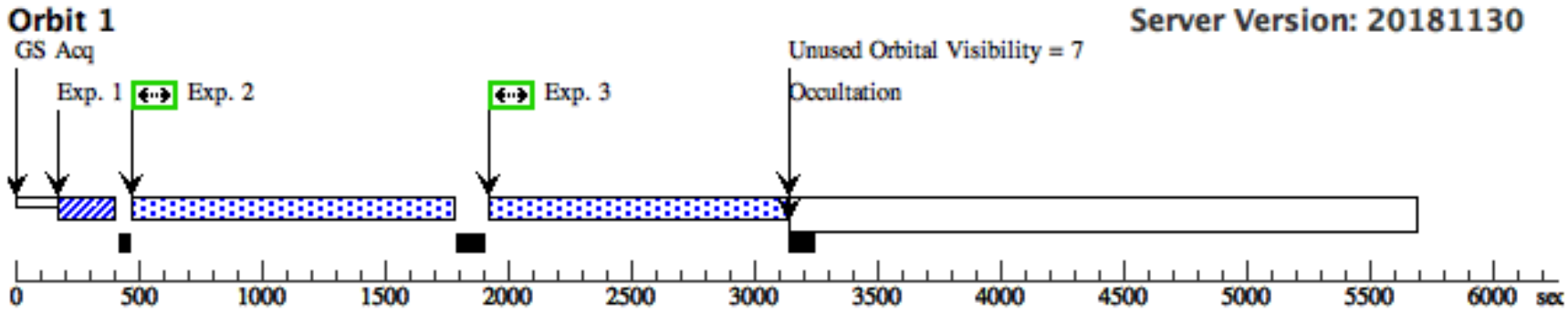
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	J101903.1274+101655.03	RA: 10 19 3.1274 (154.7630308d)		V=18.07+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO6	Dec: +10 16 55.03 (10.28195d)		Magnitude is NUV	
		Equinox: J2000			

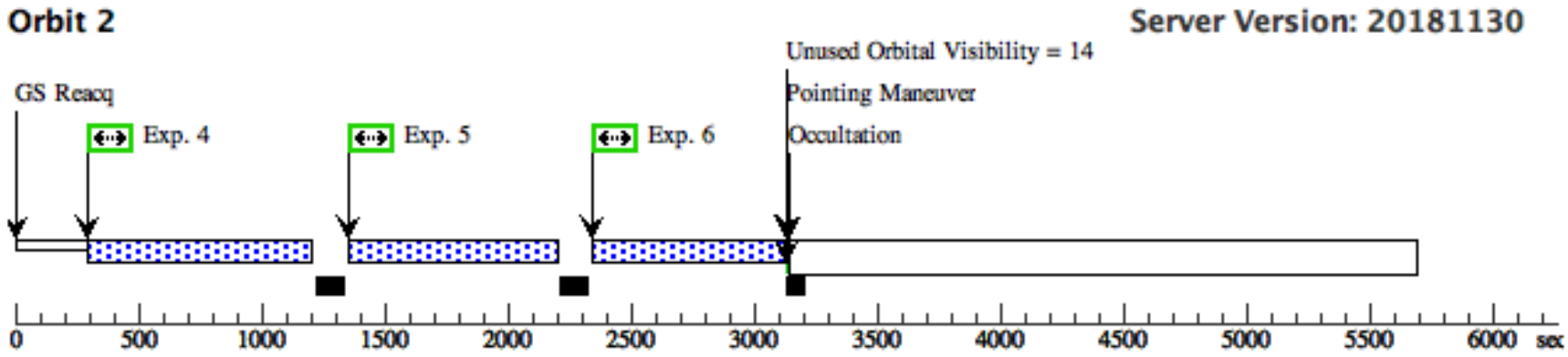
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

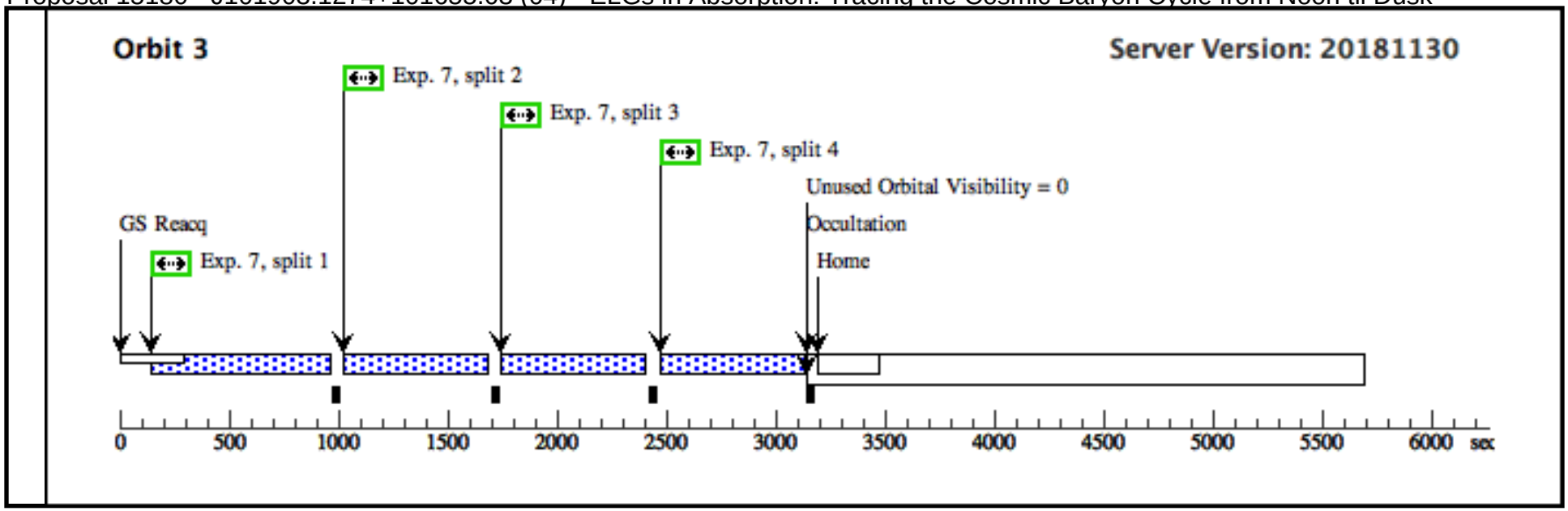
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1009383)	(6) J101903.1274+101655.03	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				7 Secs (7 Secs) *[==>]*	*[1]*
2	G230_3000 (COS.sp.1009365)	(6) J101903.1274+101655.03	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1157; FP-POS=1			1267 Secs (1191 Secs) *[==>1191.0 Secs]*	*[1]*
3	G230_3000 (COS.sp.1009365)	(6) J101903.1274+101655.03	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1300; FP-POS=2			1268 Secs (1192 Secs) *[==>1192.0 Secs]*	*[1]*
4	G230_3000 (COS.sp.1009365)	(6) J101903.1274+101655.03	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=890; FP-POS=3			1000 Secs (898 Secs) *[==>898.0 Secs]*	*[2]*
5	G230_3360 (COS.sp.1009366)	(6) J101903.1274+101655.03	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=756; FP-POS=1			866 Secs (764 Secs) *[==>764.0 Secs]*	*[2]*
6	G230_3360 (COS.sp.1009366)	(6) J101903.1274+101655.03	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1200; FP-POS=2			866 Secs (764 Secs) *[==>764.0 Secs]*	*[2]*
7	G160M (COS.sp.1009367)	(6) J101903.1274+101655.03	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			644 Secs (2436 Secs) *[==>609.0 Secs (Split 1)]* *[==>609.0 Secs (Split 2)]* *[==>609.0 Secs (Split 3)]* *[==>609.0 Secs (Split 4)]*	*[3]*

Orbit Structure






Orbit 3
Server Version: 20181130
Exp. 7, split 2
Exp. 7, split 3
Exp. 7, split 4
Unused Orbital Visibility = 0
GS Reacq
Occultation
Exp. 7, split 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15180, J103928.1433+392342.13 (17), failed Mon Jun 17 20:01:06 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J103928.1433+392342.13 (17)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

Fixed Targets

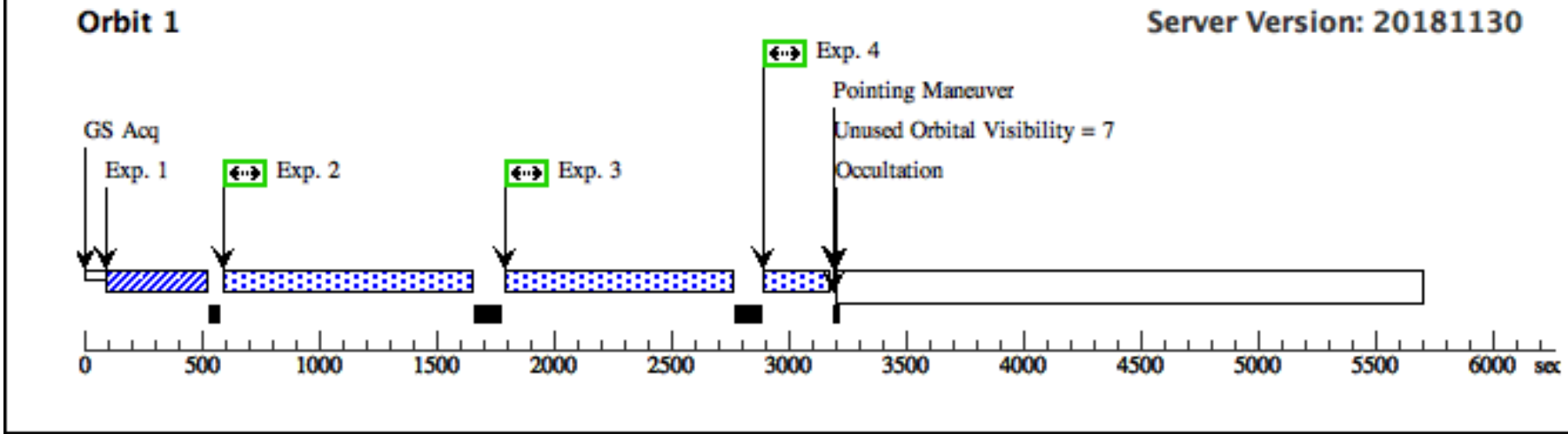
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(15)	J103928.1433+392342.13	RA: 10 39 28.1433 (159.8672638d)		V=17.34+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO15	Dec: +39 23 42.13 (39.39504d)		Magnitude is NUV	
		Equinox: J2000			

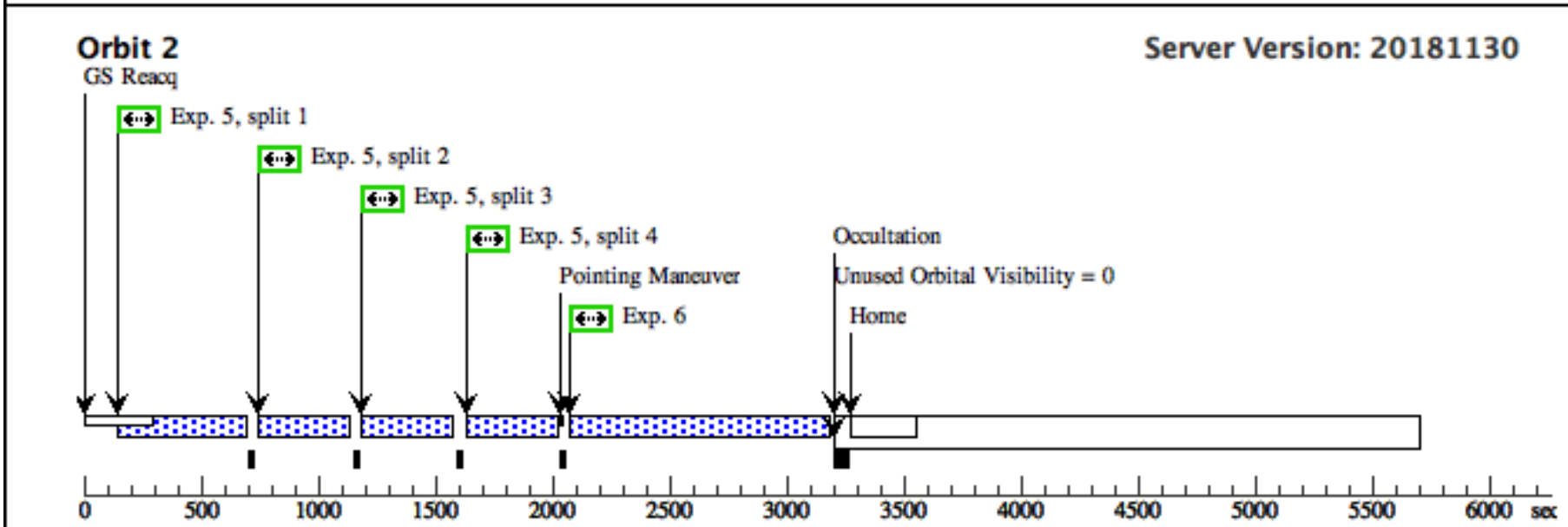
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1008655)	(15) J103928.1433+392342.13	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				66 Secs (66 Secs) *[==>]*	***[1]***
2	G230_3000 (COS.sp.1009365)	(15) J103928.1433+392342.13	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=932; FP-POS=1			1032 Secs (952 Secs) *[==>952.0 Secs]*	***[1]***
3	G230_3000 (COS.sp.1009365)	(15) J103928.1433+392342.13	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=932; FP-POS=2			1032 Secs (952 Secs) *[==>952.0 Secs]*	***[1]***
4	G230_3360 (COS.sp.1009366)	(15) J103928.1433+392342.13	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=2			272 Secs (192 Secs) *[==>192.0 Secs]*	***[1]***
5	G160M (COS.sp.1009367)	(15) J103928.1433+392342.13	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			366 Secs (1356 Secs) *[==>339.0 Secs (Split 1)]* *[==>339.0 Secs (Split 2)]* *[==>339.0 Secs (Split 3)]* *[==>339.0 Secs (Split 4)]*	***[2]***
6	G230_3360 (COS.sp.1009366)	(15) J103928.1433+392342.13	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=1			886 Secs (859 Secs) *[==>859.0 Secs]*	***[2]***

Orbit Structure





Visit

Proposal 15180, J103928.1433+392342.13 (30), implementation Mon Jun 17 20:01:06 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/NUV

Special Requirements: (none)

Diagnostics

(J103928.1433+392342.13 (30)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

Fixed Targets

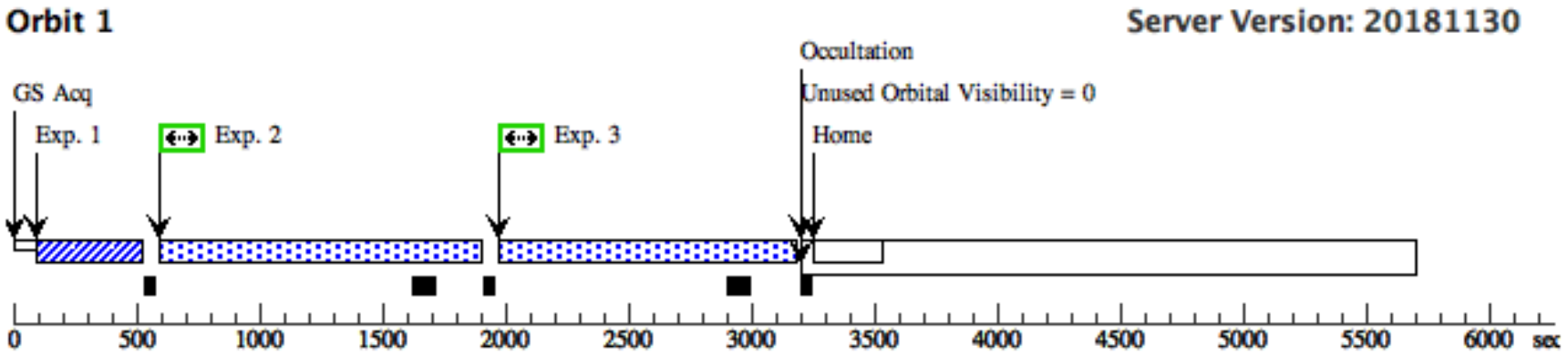
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(15)	J103928.1433+392342.13	RA: 10 39 28.1433 (159.8672638d)		V=17.34+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO15	Dec: +39 23 42.13 (39.39504d)		Magnitude is NUV	
		Equinox: J2000			

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	ACQ (COS.ta.1008655)	(15) J103928.1433+392342.13	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				66 Secs (66 Secs)	
								[==>]	***[1]***
2	G230_3000 (COS.sp.1009365)	(15) J103928.1433+392342.13	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=932; FP-POS=1			1032 Secs (1198 Secs)	
								[==>1198.0 Secs]	***[1]***
3	G230_3000 (COS.sp.1009365)	(15) J103928.1433+392342.13	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=932; FP-POS=2			1032 Secs (1198 Secs)	
								[==>1198.0 Secs]	***[1]***

Orbit Structure



Visit

Proposal 15180, J104231.1206+221300.50 (06), completed Mon Jun 17 20:01:06 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J104231.1206+221300.50 (06)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

(J104231.1206+221300.50 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J104231.1206+221300.50 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J104231.1206+221300.50 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

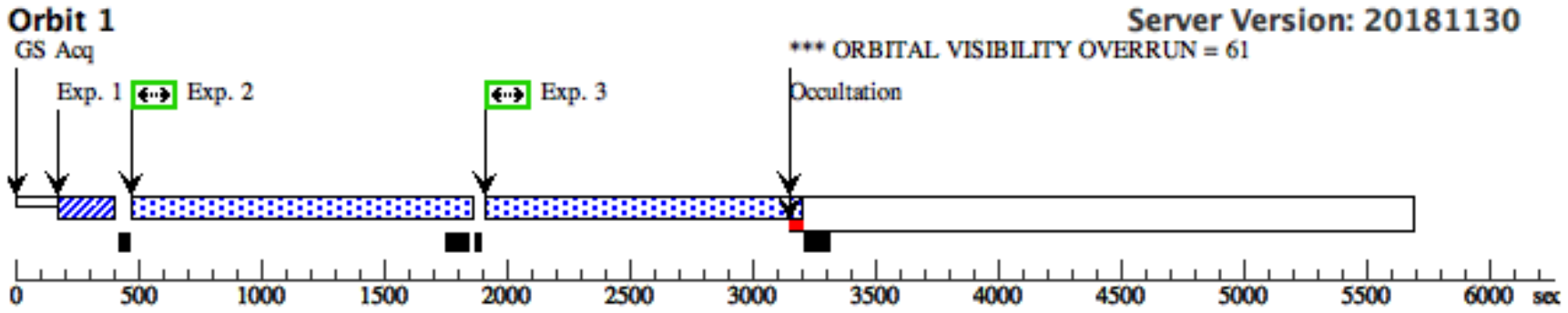
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	J104231.1206+221300.50	RA: 10 42 31.1206 (160.6296692d)		V=18.21+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO8	Dec: +22 13 0.50 (22.21681d)		Magnitude is NUV	
		Equinox: J2000			

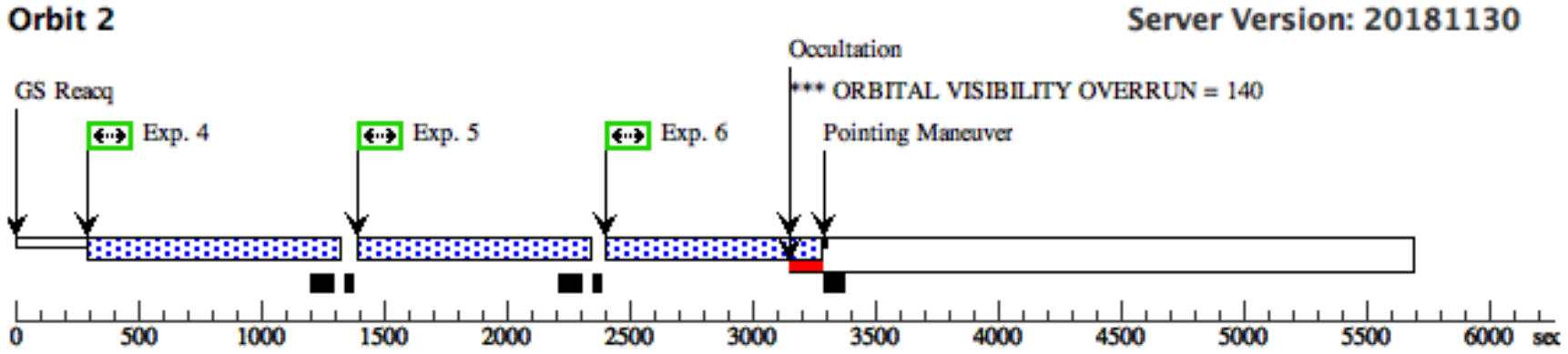
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

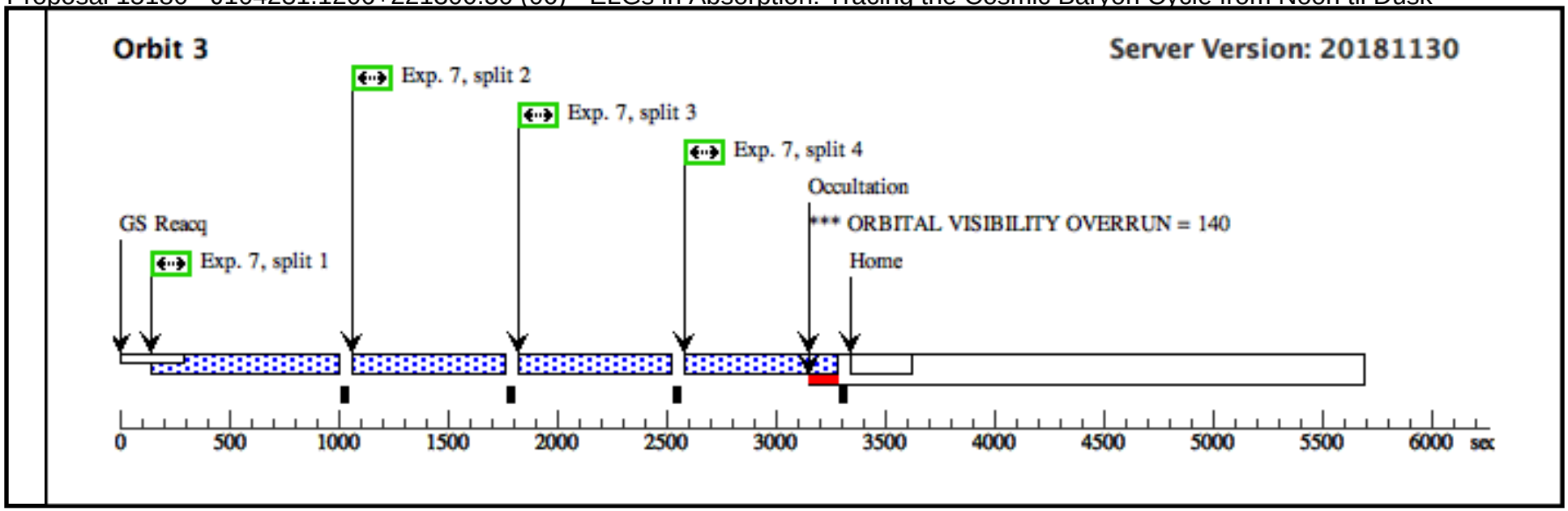
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1008462)	(8) J104231.1206+221300.50	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				8 Secs (8 Secs) *[==>]*	***[1]***
2	G230_3000 (COS.sp.1009365)	(8) J104231.1206+221300.50	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1172; FP-POS=1			1272 Secs (1272 Secs) *[==>]*	***[1]***
3	G230_3000 (COS.sp.1009365)	(8) J104231.1206+221300.50	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1400; FP-POS=2			1271 Secs (1271 Secs) *[==>]*	***[1]***
4	G230_3000 (COS.sp.1009365)	(8) J104231.1206+221300.50	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=900; FP-POS=3			1018 Secs (1018 Secs) *[==>]*	***[2]***
5	G230_3360 (COS.sp.1009366)	(8) J104231.1206+221300.50	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=740; FP-POS=1			861 Secs (861 Secs) *[==>]*	***[2]***
6	G230_3360 (COS.sp.1009366)	(8) J104231.1206+221300.50	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1200; FP-POS=2			861 Secs (861 Secs) *[==>]*	***[2]***
7	G160M (COS.sp.1009367)	(8) J104231.1206+221300.50	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			646 Secs (2584 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[3]***

Orbit Structure






Orbit 3
Server Version: 20181130
Exp. 7, split 2
Exp. 7, split 3
Exp. 7, split 4
Occultation
*** ORBITAL VISIBILITY OVERRUN = 140
GS Reacq
Exp. 7, split 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15180, J104839.3933+442821.11 (14), completed Mon Jun 17 20:01:06 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J104839.3933+442821.11 (14)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

Fixed Targets

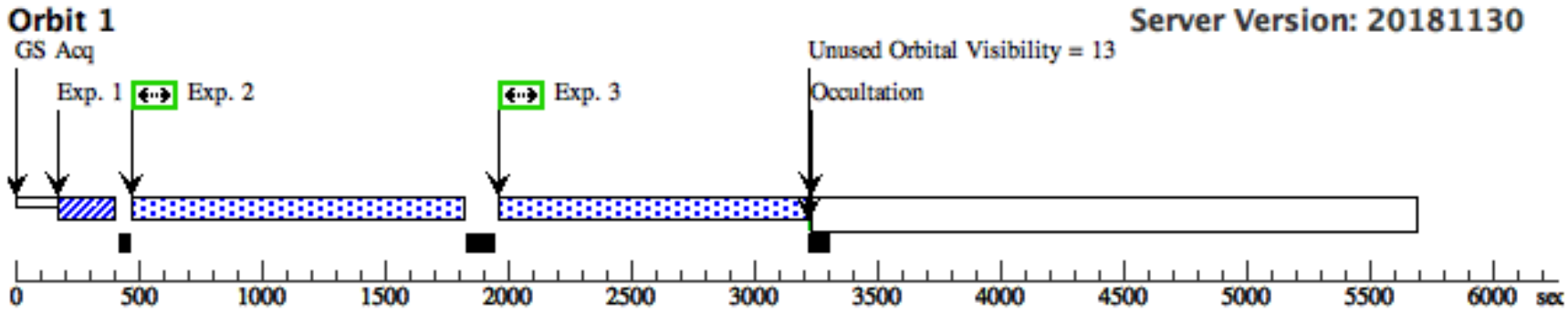
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(24)	J104839.3933+442821.11	RA: 10 48 39.3933 (162.1641388d)		V=18.16+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO24	Dec: +44 28 21.10 (44.47253d)		Magnitude is NUV	
		Equinox: J2000			

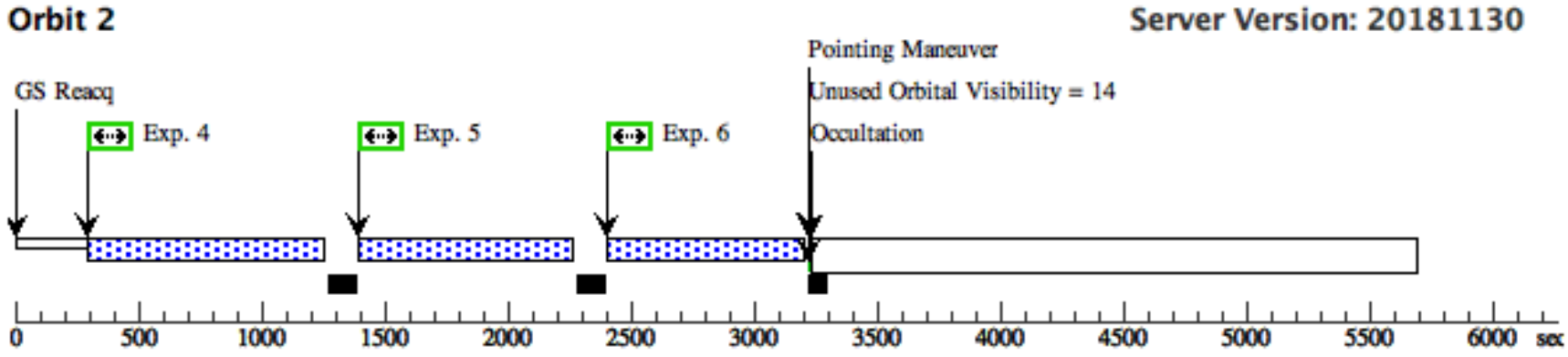
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

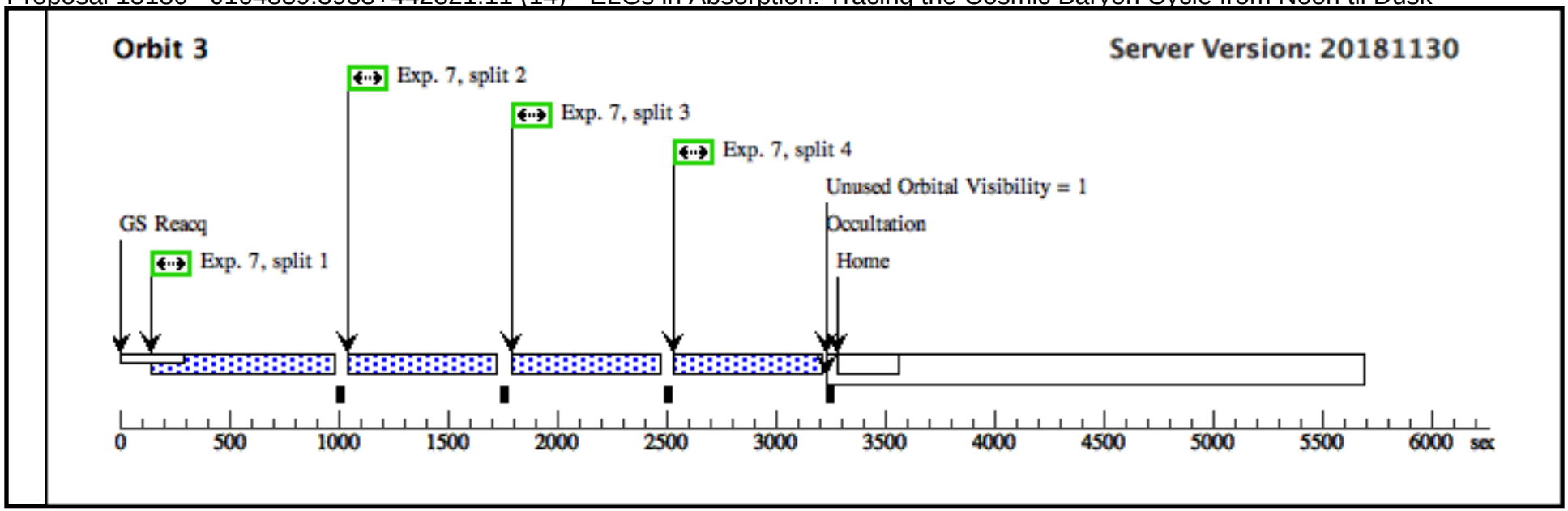
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1009384)	(24) J104839.3933+442821.11	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				8 Secs (8 Secs) *[==>]*	***[1]***
2	G230_3000 (COS.sp.1009365)	(24) J104839.3933+442821.11	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1202; FP-POS=1			1312 Secs (1232 Secs) *[==>1232.0 Secs]*	***[1]***
3	G230_3000 (COS.sp.1009365)	(24) J104839.3933+442821.11	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1700; FP-POS=2			1312 Secs (1232 Secs) *[==>1232.0 Secs]*	***[1]***
4	G230_3000 (COS.sp.1009365)	(24) J104839.3933+442821.11	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=933; FP-POS=3			1043 Secs (941 Secs) *[==>941.0 Secs]*	***[2]***
5	G230_3360 (COS.sp.1009366)	(24) J104839.3933+442821.11	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=750; FP-POS=1			889 Secs (787 Secs) *[==>787.0 Secs]*	***[2]***
6	G230_3360 (COS.sp.1009366)	(24) J104839.3933+442821.11	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1200; FP-POS=2			889 Secs (787 Secs) *[==>787.0 Secs]*	***[2]***
7	G160M (COS.sp.1009367)	(24) J104839.3933+442821.11	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			666 Secs (2524 Secs) *[==>631.0 Secs (Split 1)]* *[==>631.0 Secs (Split 2)]* *[==>631.0 Secs (Split 3)]* *[==>631.0 Secs (Split 4)]*	***[3]***

Orbit Structure






Orbit 3
Server Version: 20181130
Exp. 7, split 2
Exp. 7, split 3
Exp. 7, split 4
Unused Orbital Visibility = 1
GS Reacq
Occultation
Exp. 7, split 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15180, J112317.5195+051804.04 (21), completed Mon Jun 17 20:01:06 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J112317.5195+051804.04 (21)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

Fixed Targets

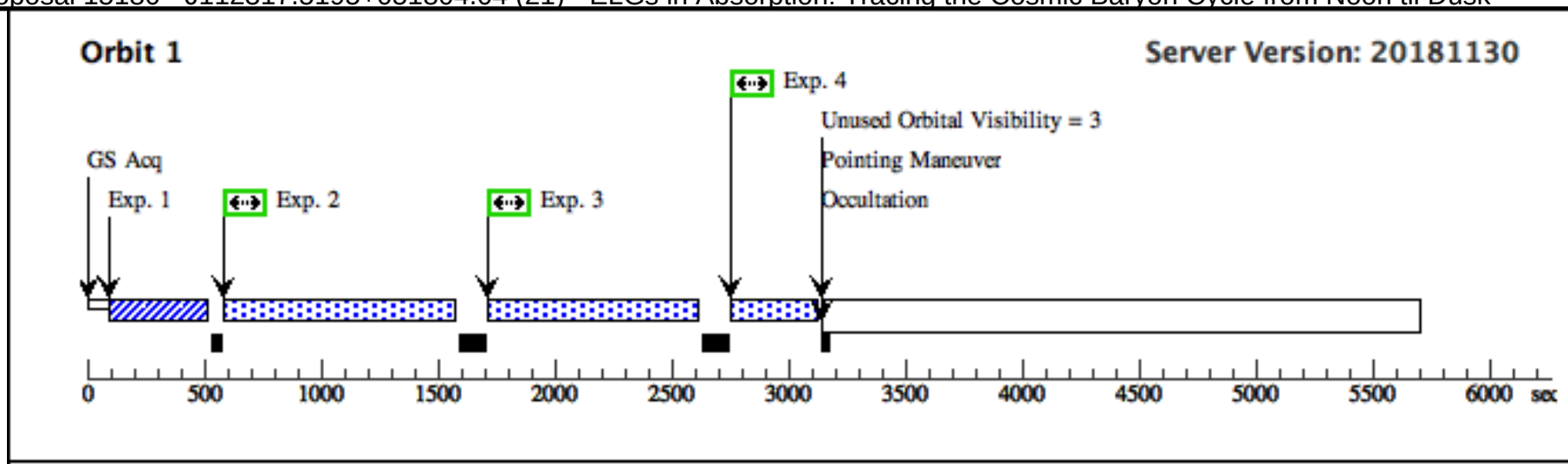
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(23)	J112317.5195+051804.04	RA: 11 23 17.5195 (170.8229979d)		V=17.27+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO23	Dec: +05 18 4.04 (5.30112d)		Magnitude is NUV	
		Equinox: J2000			

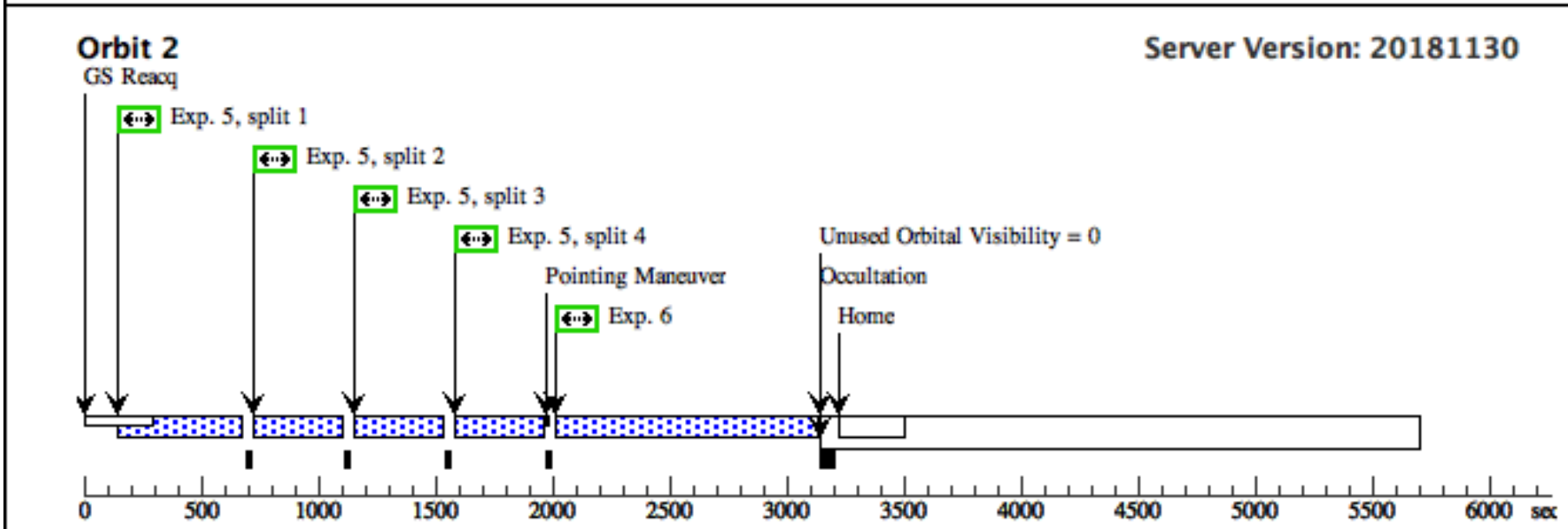
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1009082)	(23) J112317.5195+051804.04	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				62 Secs (62 Secs) *[==>]*	***[1]***
2	G230_3000 (COS.sp.1009365)	(23) J112317.5195+051804.04	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=850; FP-POS=1			957 Secs (885 Secs) *[==>885.0 Secs]*	***[1]***
3	G230_3000 (COS.sp.1009365)	(23) J112317.5195+051804.04	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=857; FP-POS=2			957 Secs (885 Secs) *[==>885.0 Secs]*	***[1]***
4	G230_3360 (COS.sp.1009366)	(23) J112317.5195+051804.04	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=2			355 Secs (283 Secs) *[==>283.0 Secs]*	***[1]***
5	G160M (COS.sp.1009367)	(23) J112317.5195+051804.04	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			350 Secs (1292 Secs) *[==>323.0 Secs (Split 1)]* *[==>323.0 Secs (Split 2)]* *[==>323.0 Secs (Split 3)]* *[==>323.0 Secs (Split 4)]*	***[2]***
6	G230_3360 (COS.sp.1009366)	(23) J112317.5195+051804.04	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=1			895 Secs (868 Secs) *[==>868.0 Secs]*	***[2]***

Orbit Structure





Visit

Proposal 15180, J114931.7542+223028.37 (03), completed Mon Jun 17 20:01:06 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J114931.7542+223028.37 (03)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

Fixed Targets

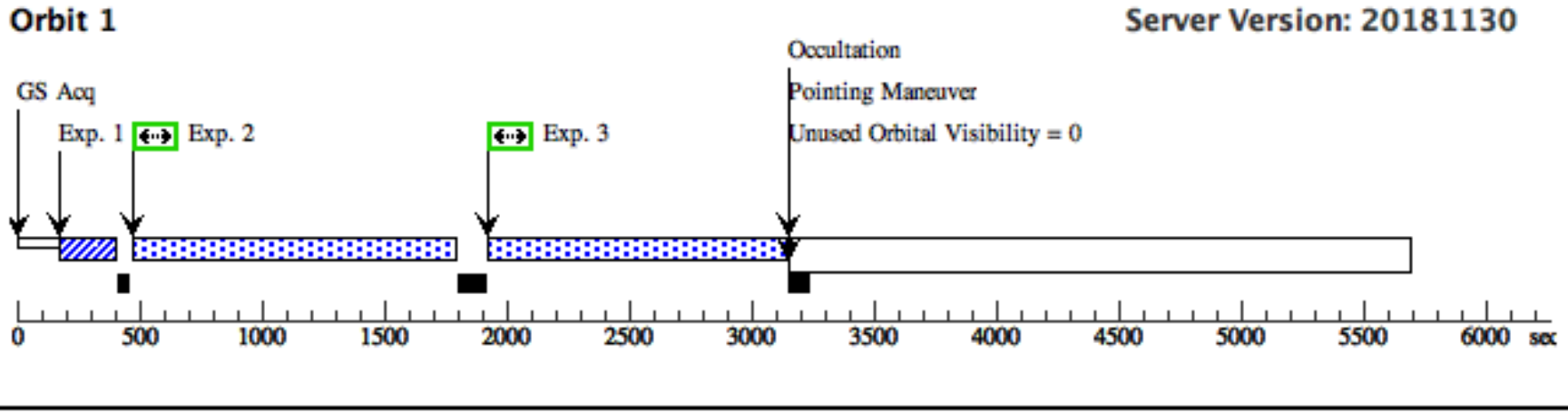
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(22)	J114931.7542+223028.37	RA: 11 49 31.7542 (177.3823092d)		V=17.81+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO22	Dec: +22 30 28.37 (22.50788d)		Magnitude is NUV	
		Equinox: J2000			

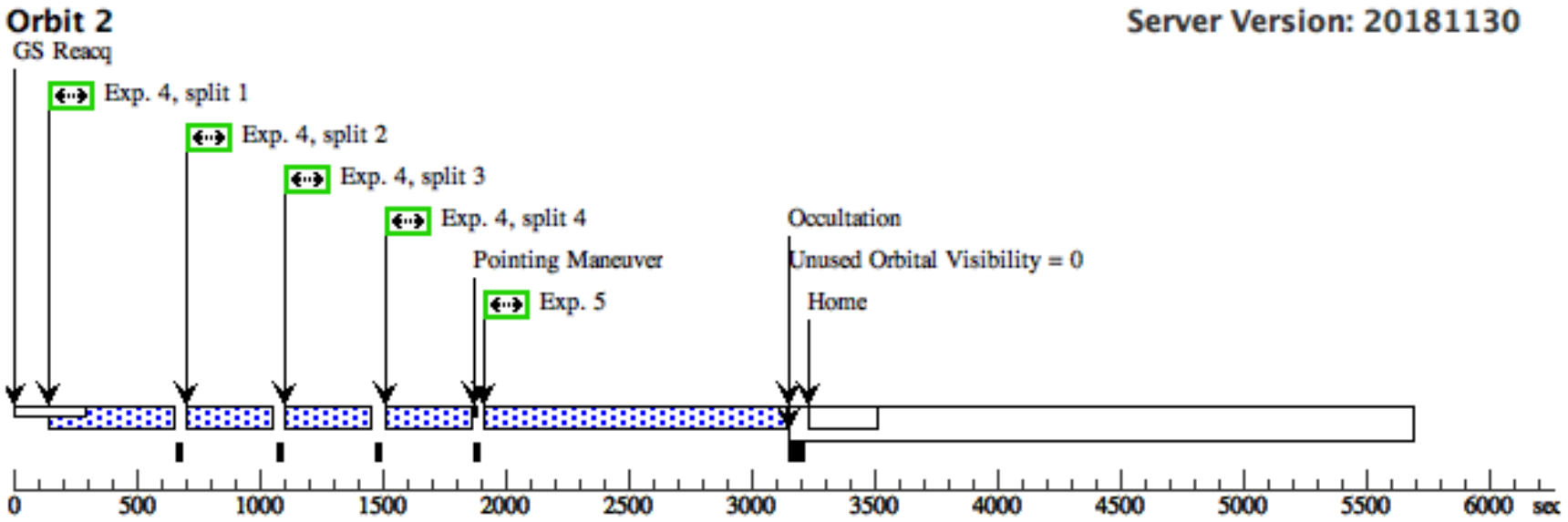
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1008369)	(22) J114931.7542+223028.37	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				5 Secs (5 Secs) *[==>]*	 ***[1]***
2	G230_3000 (COS.sp.1009365)	(22) J114931.7542+223028.37	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1164; FP-POS=1			1274 Secs (1201 Secs) *[==>1201.0 Secs]*	 ***[1]***
3	G230_3000 (COS.sp.1009365)	(22) J114931.7542+223028.37	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1800; FP-POS=2			1274 Secs (1201 Secs) *[==>1201.0 Secs]*	 ***[1]***
4	G160M (COS.sp.1009367)	(22) J114931.7542+223028.37	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			326 Secs (1196 Secs) *[==>299.0 Secs (Split 1)]* *[==>299.0 Secs (Split 2)]* *[==>299.0 Secs (Split 3)]* *[==>299.0 Secs (Split 4)]*	 ***[2]***
5	G230_3360 (COS.sp.1009366)	(22) J114931.7542+223028.37	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=1			998 Secs (971 Secs) *[==>971.0 Secs]*	 ***[2]***

Orbit Structure





Visit

Proposal 15180, J121615.8716+165300.10 (02), failed Mon Jun 17 20:01:06 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J121615.8716+165300.10 (02)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

(J121615.8716+165300.10 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J121615.8716+165300.10 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J121615.8716+165300.10 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

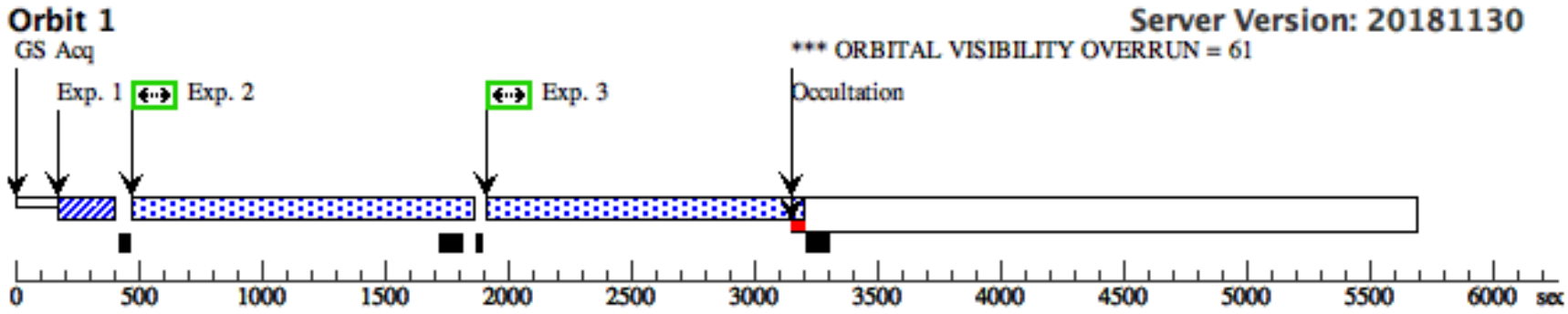
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(21)	J121615.8716+165300.10	RA: 12 16 15.8716 (184.0661317d)		V=18.22+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO21	Dec: +16 53 0.10 (16.88336d)		Magnitude is NUV	
		Equinox: J2000			

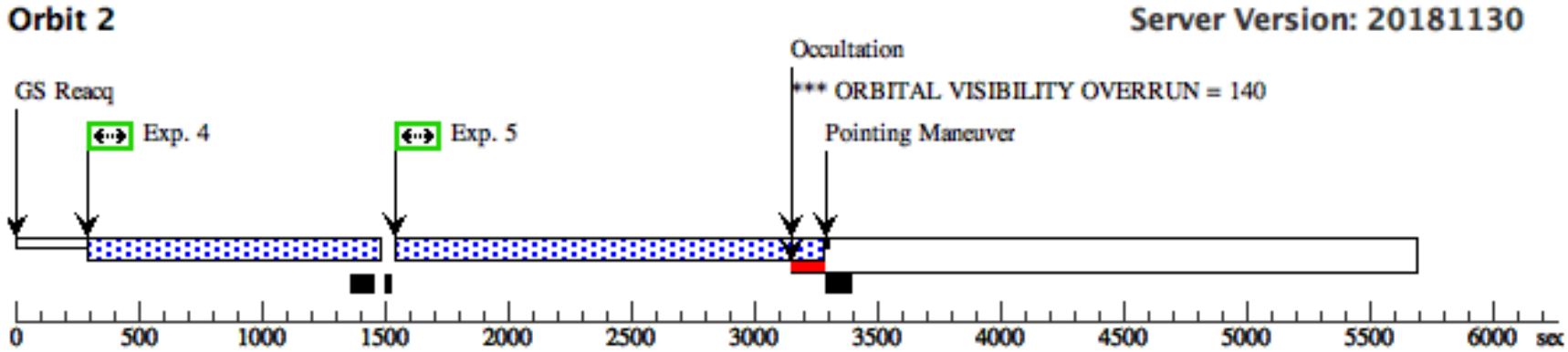
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

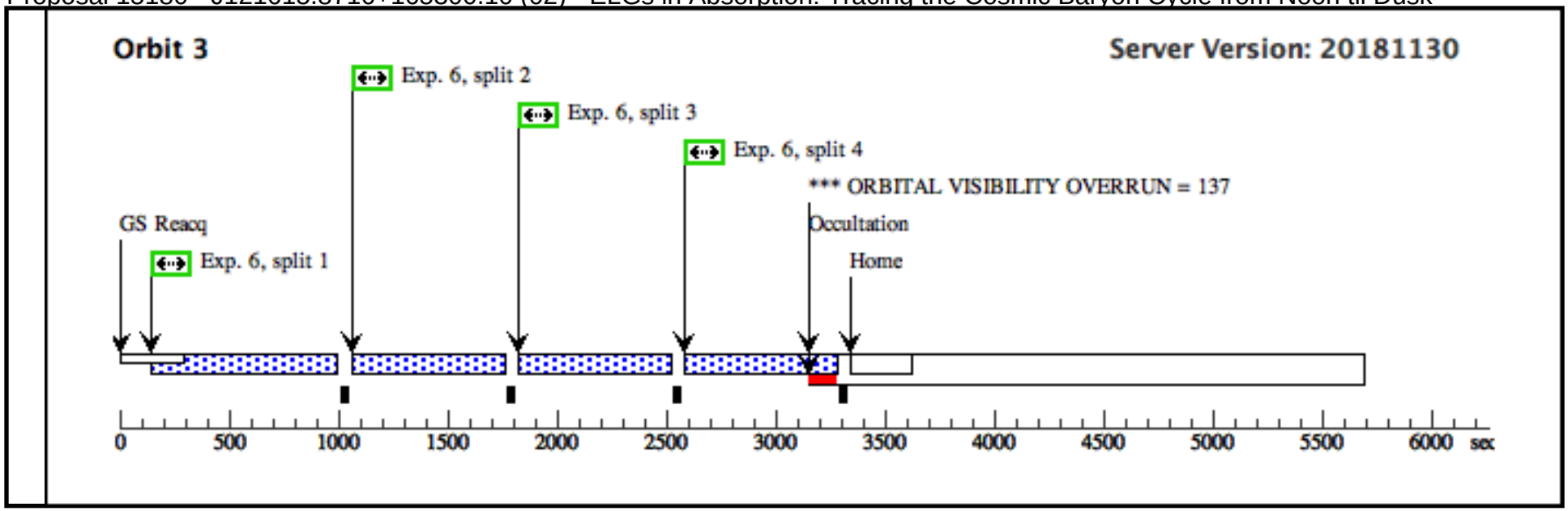
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1009378)	(21) J121615.8716+165300.10	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				8 Secs (8 Secs) *[==>]*	*[1]*
2	G230_3000 (COS.sp.1009365)	(21) J121615.8716+165300.10	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1149; FP-POS=1			1271 Secs (1271 Secs) *[==>]*	*[1]*
3	G230_3000 (COS.sp.1009365)	(21) J121615.8716+165300.10	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1500; FP-POS=2			1271 Secs (1271 Secs) *[==>]*	*[1]*
4	G230_3000 (COS.sp.1009365)	(21) J121615.8716+165300.10	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1065; FP-POS=3			1175 Secs (1175 Secs) *[==>]*	*[2]*
5	G230_3360 (COS.sp.1009366)	(21) J121615.8716+165300.10	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=1			1652 Secs (1652 Secs) *[==>]*	*[2]*
6	G160M (COS.sp.1009367)	(21) J121615.8716+165300.10	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			645 Secs (2580 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	*[3]*

Orbit Structure






Orbit 3
Server Version: 20181130
Exp. 6, split 2
Exp. 6, split 3
Exp. 6, split 4
*** ORBITAL VISIBILITY OVERRUN = 137
GS Reacq
Occultation
Exp. 6, split 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15180, J121615.8716+165300.10 (26), completed Mon Jun 17 20:01:06 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J121615.8716+165300.10 (26)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

Fixed Targets

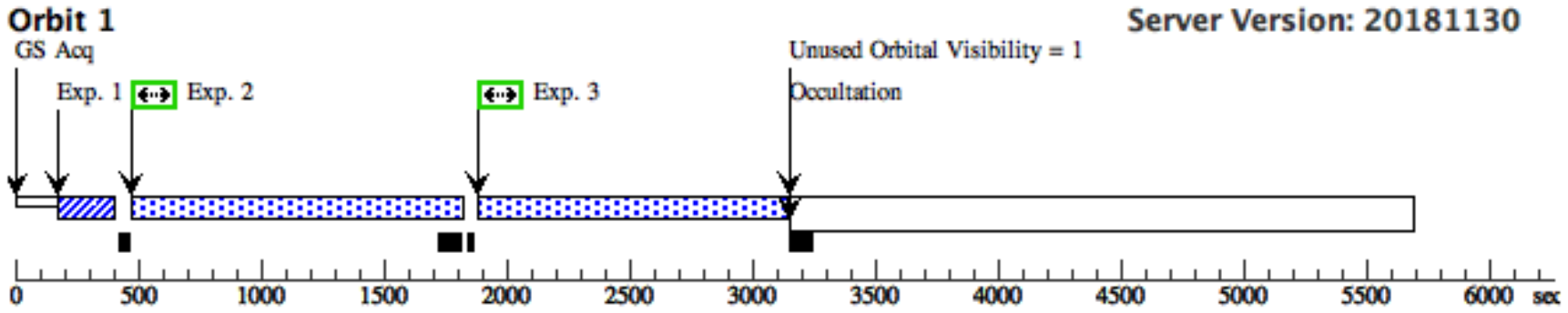
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(21)	J121615.8716+165300.10	RA: 12 16 15.8716 (184.0661317d)		V=18.22+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO21	Dec: +16 53 0.10 (16.88336d)		Magnitude is NUV	
		Equinox: J2000			

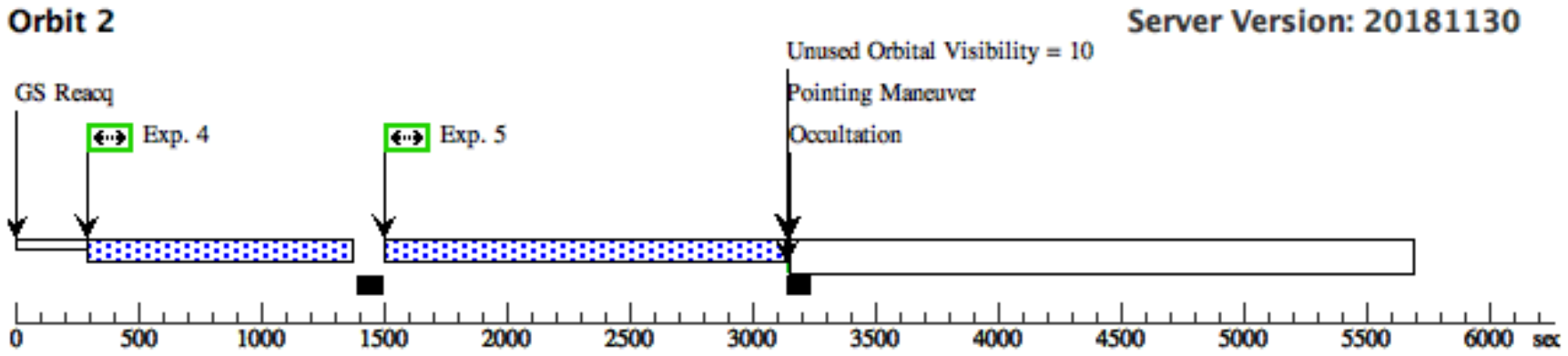
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

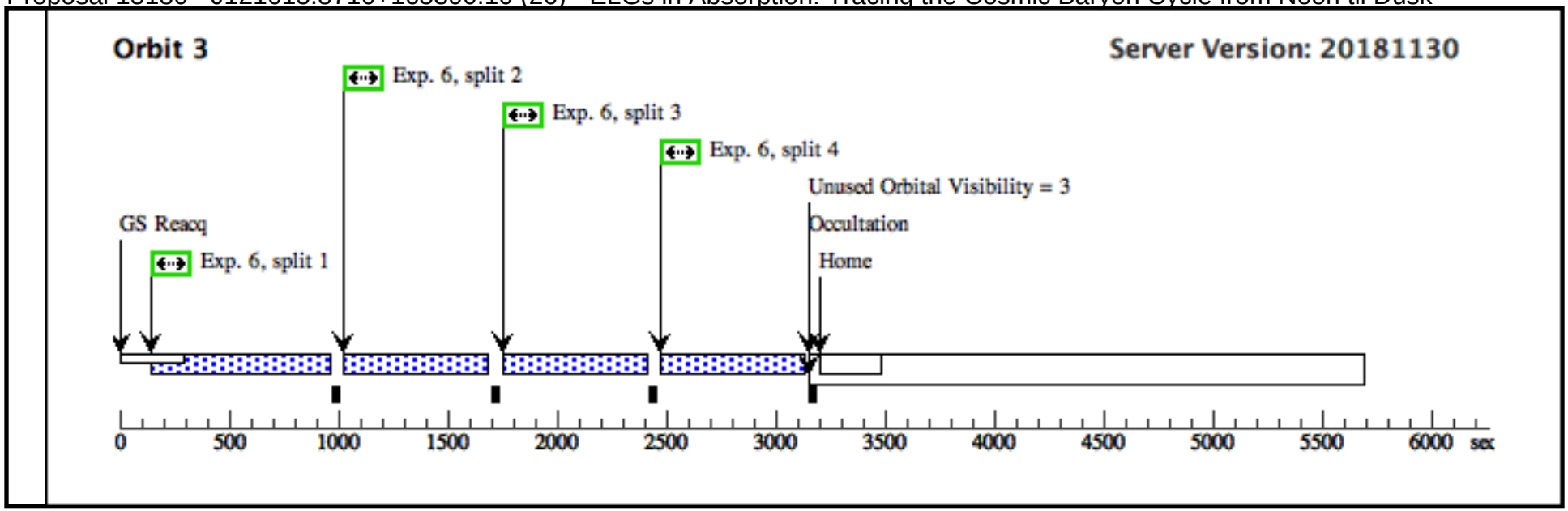
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.100 9378)	(21) J121615.8716+ 165300.10	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				8 Secs (8 Secs) *[==>]*	*[1]*
2	G230_3000 (COS.sp.100 9365)	(21) J121615.8716+ 165300.10	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1149; FP-POS=1			1271 Secs (1240 Secs) *[==>1240.0 Secs]*	*[1]*
3	G230_3000 (COS.sp.100 9365)	(21) J121615.8716+ 165300.10	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1500; FP-POS=2			1271 Secs (1240 Secs) *[==>1240.0 Secs]*	*[1]*
4	G230_3000 (COS.sp.100 9365)	(21) J121615.8716+ 165300.10	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1065; FP-POS=3			1175 Secs (1062 Secs) *[==>1062.0 Secs]*	*[2]*
5	G230_3360 (COS.sp.100 9366)	(21) J121615.8716+ 165300.10	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=1			1652 Secs (1539 Secs) *[==>1539.0 Secs]*	*[2]*
6	G160M (COS.sp.100 9367)	(21) J121615.8716+ 165300.10	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			645 Secs (2440 Secs) *[==>610.0 Secs (Split 1)]* *[==>610.0 Secs (Split 2)]* *[==>610.0 Secs (Split 3)]* *[==>610.0 Secs (Split 4)]*	*[3]*

Orbit Structure






Orbit 3
Server Version: 20181130
Exp. 6, split 2
Exp. 6, split 3
Exp. 6, split 4
Unused Orbital Visibility = 3
GS Reacq
Occultation
Exp. 6, split 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15180, J125547.6184+401230.81 (25), failed Mon Jun 17 20:01:06 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J125547.6184+401230.81 (25)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

(J125547.6184+401230.81 (25)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

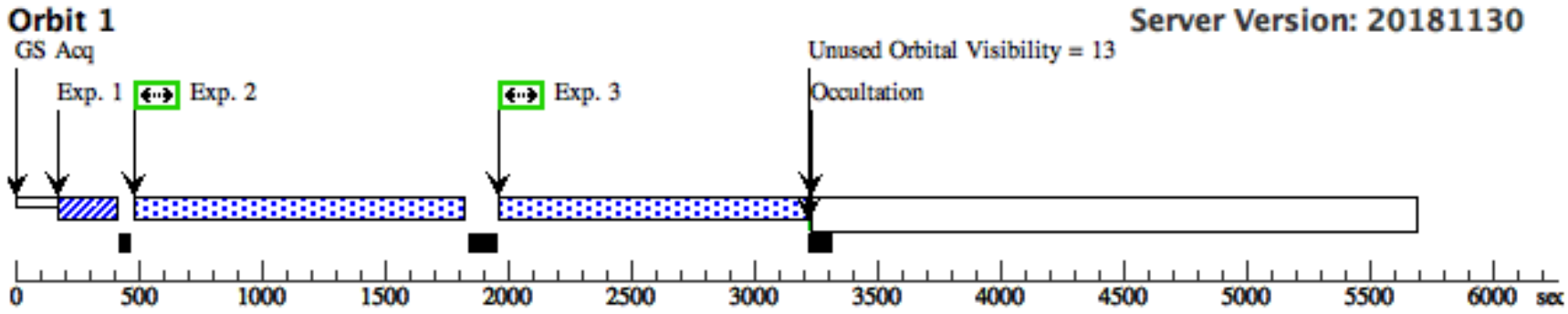
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	J125547.6184+401230.81	RA: 12 55 47.6184 (193.9484100d)		V= 18.46+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO2	Dec: +40 12 30.81 (40.20856d)		Magnitude is NUV	
		Equinox: J2000			

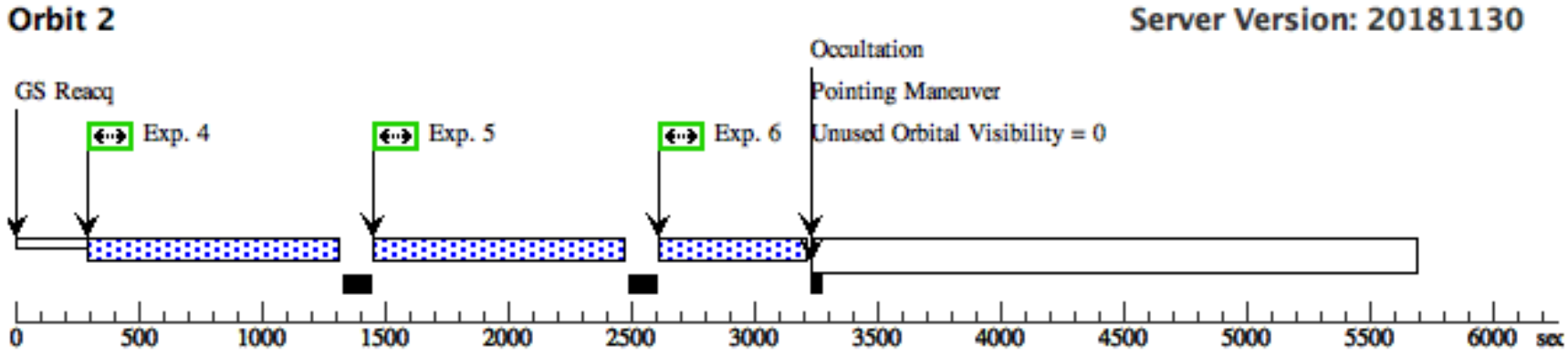
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

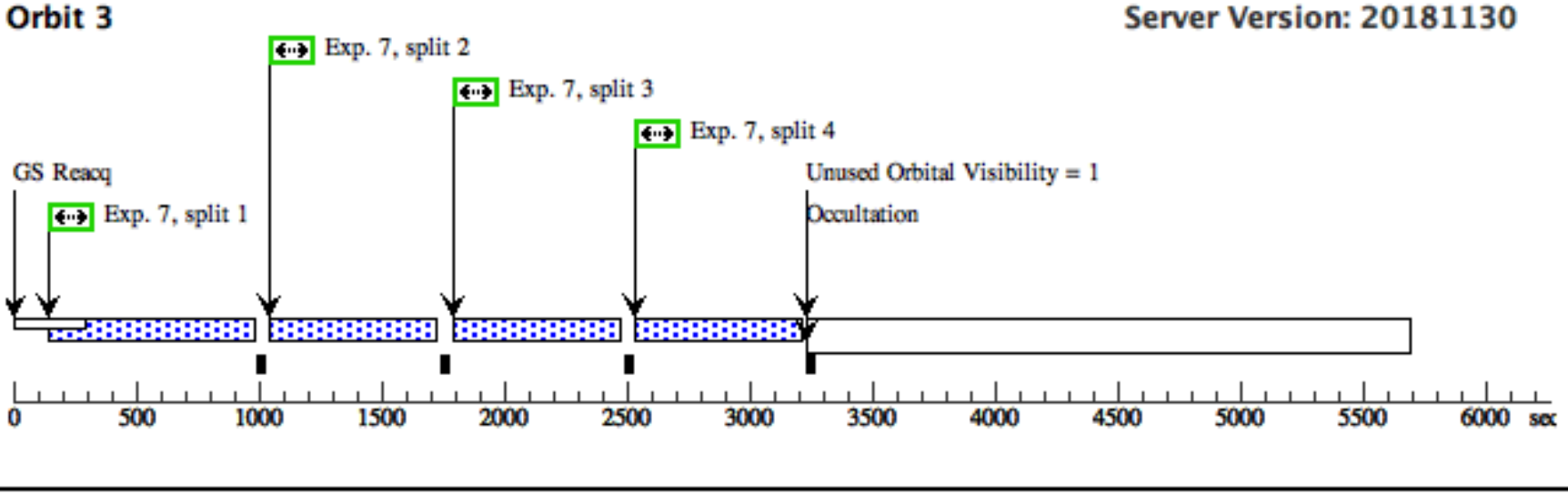
Exposures

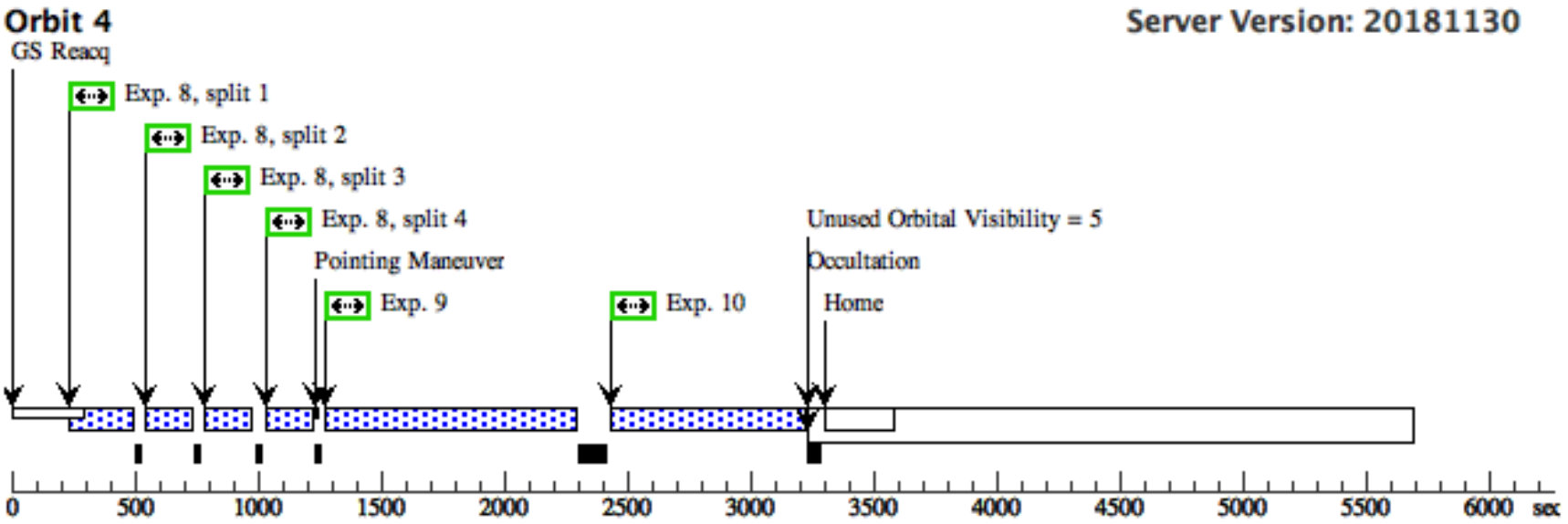
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1008677)	(2) J125547.6184+401230.81	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				10 Secs (10 Secs) *[==>]*	***[1]***
2	G230_3000 (COS.sp.1009365)	(2) J125547.6184+401230.81	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1200; FP-POS=1			1310 Secs (1230 Secs) *[==>1230.0 Secs]*	***[1]***
3	G230_3000 (COS.sp.1009365)	(2) J125547.6184+401230.81	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1500; FP-POS=2			1310 Secs (1230 Secs) *[==>1230.0 Secs]*	***[1]***
4	G230_3000 (COS.sp.1009365)	(2) J125547.6184+401230.81	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1000; FP-POS=3			1110 Secs (1006 Secs) *[==>1006.0 Secs]*	***[2]***
5	G230_3000 (COS.sp.1009365)	(2) J125547.6184+401230.81	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1000; FP-POS=4			1110 Secs (1006 Secs) *[==>1006.0 Secs]*	***[2]***
6	G230_3360 (COS.sp.1009366)	(2) J125547.6184+401230.81	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=1			621 Secs (517 Secs) *[==>517.0 Secs]*	***[2]***
7	G160M (COS.sp.1009367)	(2) J125547.6184+401230.81	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			666 Secs (2524 Secs) *[==>631.0 Secs (Split 1)]* *[==>631.0 Secs (Split 2)]* *[==>631.0 Secs (Split 3)]* *[==>631.0 Secs (Split 4)]*	***[3]***
8	G160M (COS.sp.1009367)	(2) J125547.6184+401230.81	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			175 Secs (556 Secs) *[==>139.0 Secs (Split 1)]* *[==>139.0 Secs (Split 2)]* *[==>139.0 Secs (Split 3)]* *[==>139.0 Secs (Split 4)]*	***[4]***
9	G230_3360 (COS.sp.1009366)	(2) J125547.6184+401230.81	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=700; FP-POS=2			806 Secs (770 Secs) *[==>770.0 Secs]*	***[4]***
10	G230_3360 (COS.sp.1009366)	(2) J125547.6184+401230.81	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=3			806 Secs (770 Secs) *[==>770.0 Secs]*	***[4]***

Orbit Structure






Orbit 3
Server Version: 20181130
Exp. 7, split 2
Exp. 7, split 3
Exp. 7, split 4
GS Reacq
Exp. 7, split 1
Unused Orbital Visibility = 1
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec


Orbit 4
Server Version: 20181130
GS Reacq
Exp. 8, split 1
Exp. 8, split 2
Exp. 8, split 3
Exp. 8, split 4
Pointing Maneuver
Exp. 9
Exp. 10
Unused Orbital Visibility = 5
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15180, J125547.6184+401230.81 (29), implementation Mon Jun 17 20:01:06 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/NUV

Special Requirements: (none)

Diagnostics

(J125547.6184+401230.81 (29)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

Fixed Targets

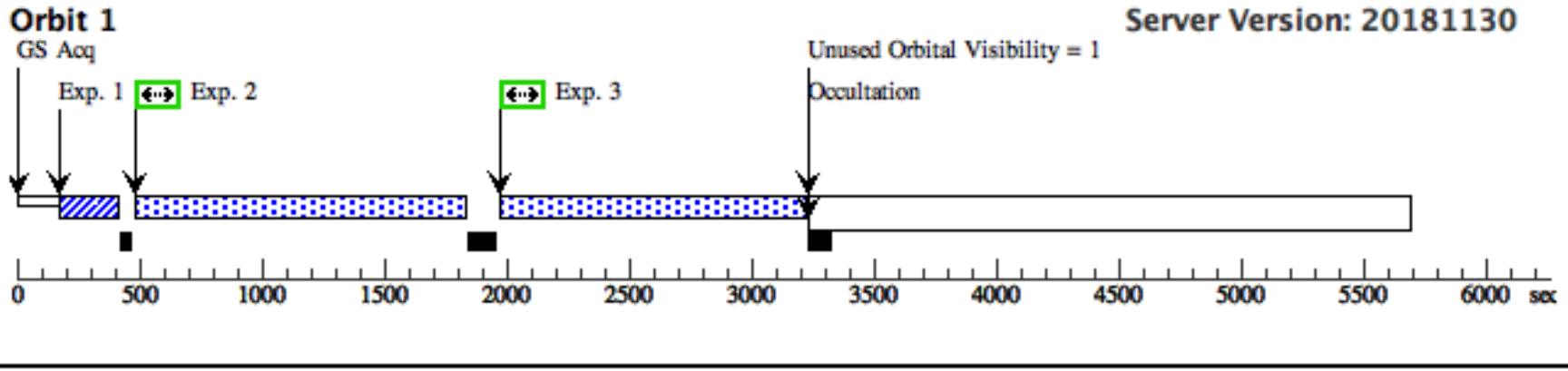
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	J125547.6184+401230.81	RA: 12 55 47.6184 (193.9484100d)		V= 18.46+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO2	Dec: +40 12 30.81 (40.20856d)		Magnitude is NUV	
		Equinox: J2000			

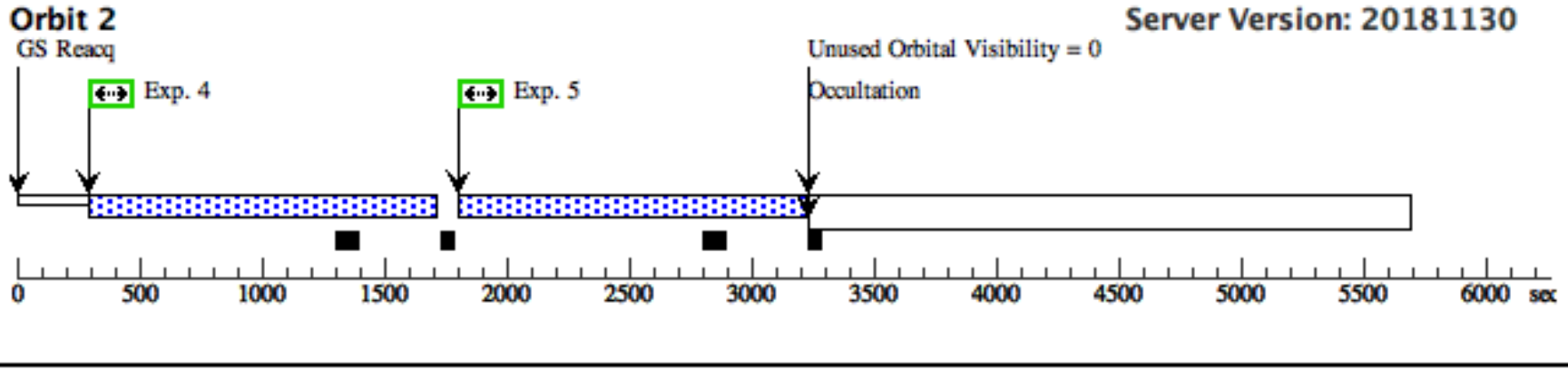
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

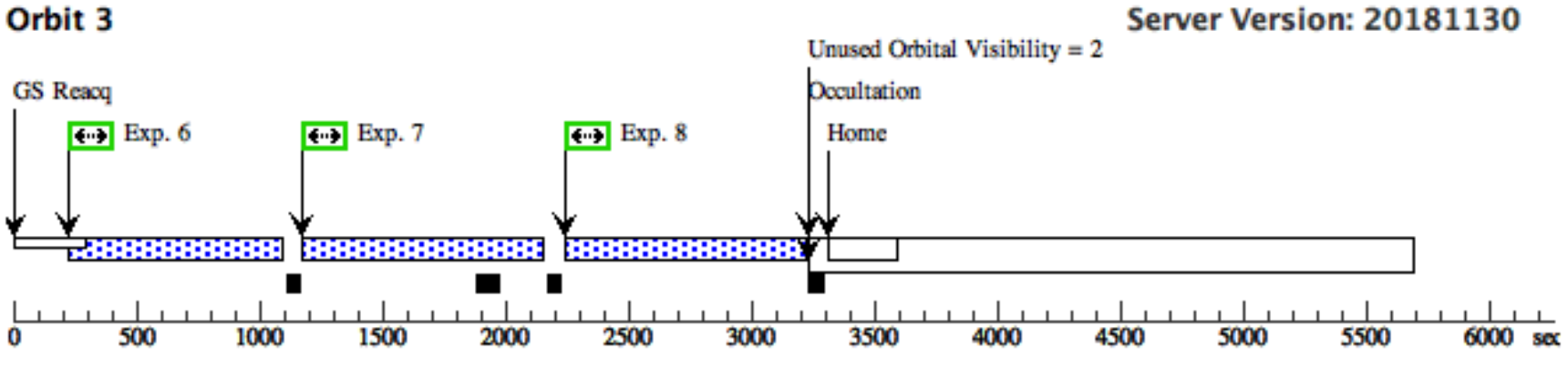
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1008677)	(2) J125547.6184+401230.81	COS/NUV, ACQ/IMAGE, PSA	MIRRORA		GS ACQ SCENARIO BASE1B3		10 Secs (10 Secs) *[==>]*	***[1]***
2	G230_3000 (COS.sp.1009365)	(2) J125547.6184+401230.81	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1200; FP-POS=1			1200 Secs (1236 Secs) *[==>1236.0 Secs]*	***[1]***
3	G230_3000 (COS.sp.1009365)	(2) J125547.6184+401230.81	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1500; FP-POS=2			1200 Secs (1236 Secs) *[==>1236.0 Secs]*	***[1]***
4	G230_3000 (COS.sp.1009365)	(2) J125547.6184+401230.81	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1000; FP-POS=3			1110 Secs (1406 Secs) *[==>1406.0 Secs]*	***[2]***
5	G230_3000 (COS.sp.1009365)	(2) J125547.6184+401230.81	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1000; FP-POS=4			1110 Secs (1406 Secs) *[==>1406.0 Secs]*	***[2]***
6	G230_3360 (COS.sp.1009366)	(2) J125547.6184+401230.81	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=1			621 Secs (781 Secs) *[==>781.0 Secs]*	***[3]***
7	G230_3360 (COS.sp.1009366)	(2) J125547.6184+401230.81	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=700; FP-POS=2			806 Secs (966 Secs) *[==>966.0 Secs]*	***[3]***
8	G230_3360 (COS.sp.1009366)	(2) J125547.6184+401230.81	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=3			806 Secs (966 Secs) *[==>966.0 Secs]*	***[3]***

Orbit Structure







Visit

Proposal 15180, J132854.1809+061152.21 (12), completed Mon Jun 17 20:01:06 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J132854.1809+061152.21 (12)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

(J132854.1809+061152.21 (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J132854.1809+061152.21 (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J132854.1809+061152.21 (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

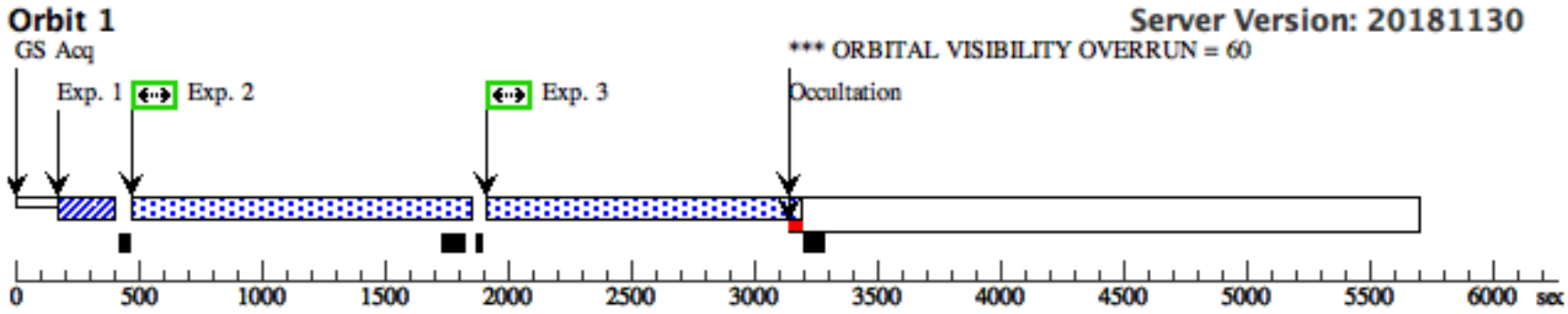
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(19)	J132854.1809+061152.21	RA: 13 28 54.1809 (202.2257537d)		V=18.24+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO19	Dec: +06 11 52.21 (6.19784d)		Magnitude is NUV	
		Equinox: J2000			

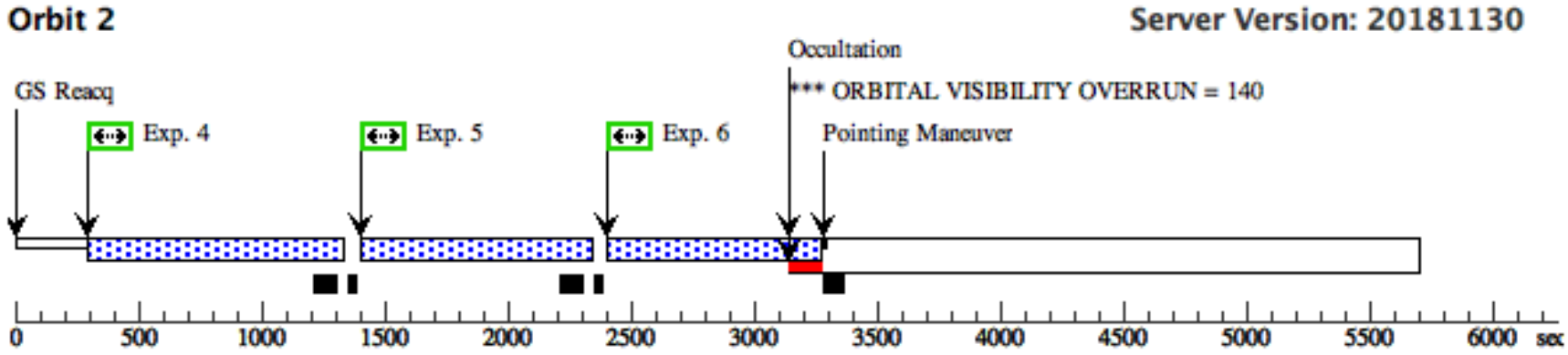
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

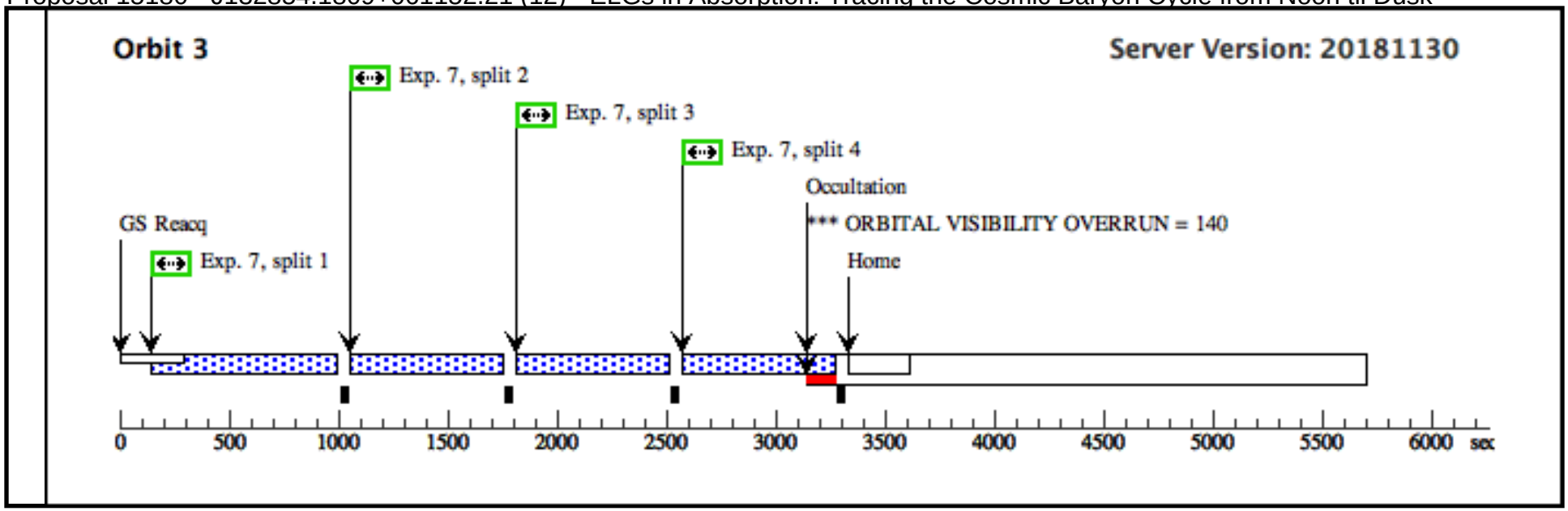
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1009385)	(19) J132854.1809+061152.21	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				8 Secs (8 Secs) *[==>]*	***[1]***
2	G230_3000 (COS.sp.1009365)	(19) J132854.1809+061152.21	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1155; FP-POS=1			1265 Secs (1265 Secs) *[==>]*	***[1]***
3	G230_3000 (COS.sp.1009365)	(19) J132854.1809+061152.21	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1700; FP-POS=2			1265 Secs (1265 Secs) *[==>]*	***[1]***
4	G230_3000 (COS.sp.1009365)	(19) J132854.1809+061152.21	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=917; FP-POS=3			1025 Secs (1025 Secs) *[==>]*	***[2]***
5	G230_3360 (COS.sp.1009366)	(19) J132854.1809+061152.21	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=740; FP-POS=1			852 Secs (852 Secs) *[==>]*	***[2]***
6	G230_3360 (COS.sp.1009366)	(19) J132854.1809+061152.21	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1200; FP-POS=2			851 Secs (851 Secs) *[==>]*	***[2]***
7	G160M (COS.sp.1009367)	(19) J132854.1809+061152.21	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			643 Secs (2572 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[3]***

Orbit Structure






Orbit 3
Server Version: 20181130
Exp. 7, split 2
Exp. 7, split 3
Exp. 7, split 4
Occultation
*** ORBITAL VISIBILITY OVERRUN = 140
GS Reacq
Exp. 7, split 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15180, J132921.7493+144431.21 _A (07), completed Mon Jun 17 20:01:06 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J132921.7493+144431.21 _A (07)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

(J132921.7493+144431.21 _A (07)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

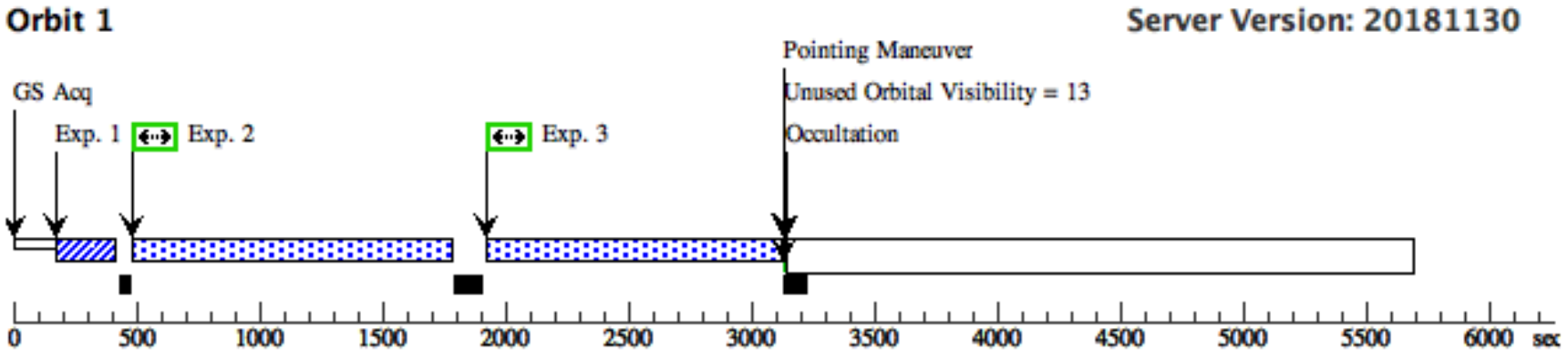
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	J132921.7493+144431.21	RA: 13 29 21.7493 (202.3406221d)		V= 18.66+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO01	Dec: +14 44 31.21 (14.74200d)		Magnitude is NUV	
		Equinox: J2000			

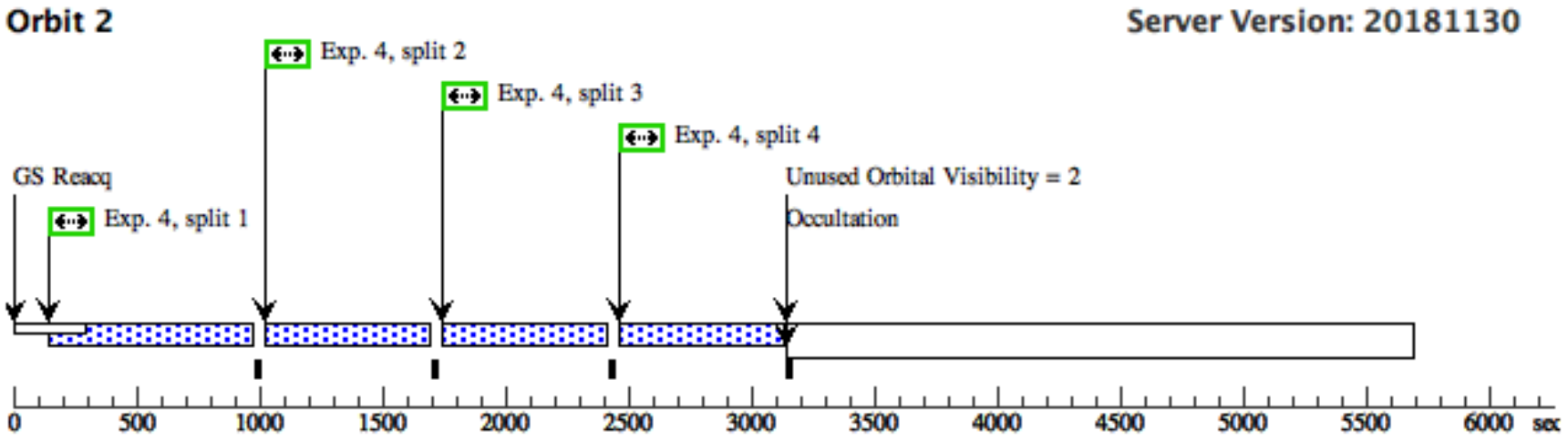
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

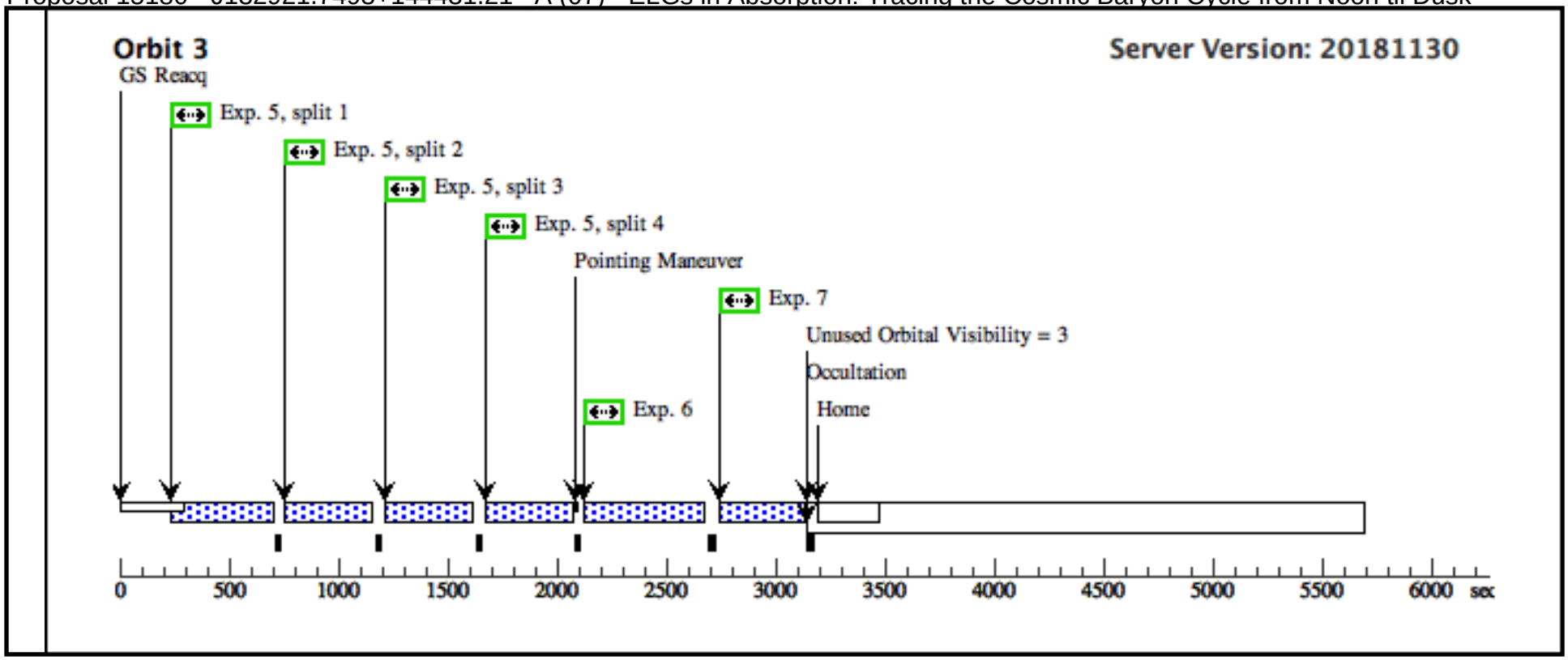
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1009386)	(1) J132921.7493+144431.21	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs) *[==>]*	***[1]***
2	G230_3360 (COS.sp.1009366)	(1) J132921.7493+144431.21	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1153; FP-POS=1			1263 Secs (1183 Secs) *[==>1183.0 Secs]*	***[1]***
3	G230_3360 (COS.sp.1009366)	(1) J132921.7493+144431.21	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1500; FP-POS=2			1264 Secs (1184 Secs) *[==>1184.0 Secs]*	***[1]***
4	G160M (COS.sp.1009367)	(1) J132921.7493+144431.21	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=21832; FP-POS=ALL			651 Secs (2464 Secs) *[==>616.0 Secs (Split 1)]* *[==>616.0 Secs (Split 2)]* *[==>616.0 Secs (Split 3)]* *[==>616.0 Secs (Split 4)]*	***[2]***
5	G160M (COS.sp.1009367)	(1) J132921.7493+144431.21	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=21832; FP-POS=ALL			375 Secs (1408 Secs) *[==>352.0 Secs (Split 1)]* *[==>352.0 Secs (Split 2)]* *[==>352.0 Secs (Split 3)]* *[==>352.0 Secs (Split 4)]*	***[3]***
6	G230_3360 (COS.sp.1009366)	(1) J132921.7493+144431.21	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=3			325 Secs (302 Secs) *[==>302.0 Secs]*	***[3]***
7	G230_3000 (COS.sp.1009365)	(1) J132921.7493+144431.21	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1763; FP-POS=1			326 Secs (303 Secs) *[==>303.0 Secs]*	***[3]***

Orbit Structure






Orbit 3
Server Version: 20181130
GS Reacq
Exp. 5, split 1
Exp. 5, split 2
Exp. 5, split 3
Exp. 5, split 4
Pointing Maneuver
Exp. 7
Unused Orbital Visibility = 3
Occultation
Exp. 6
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15180, J132921.7493+144431.21 _B (18), completed Mon Jun 17 20:01:06 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: (none)

Fixed Targets

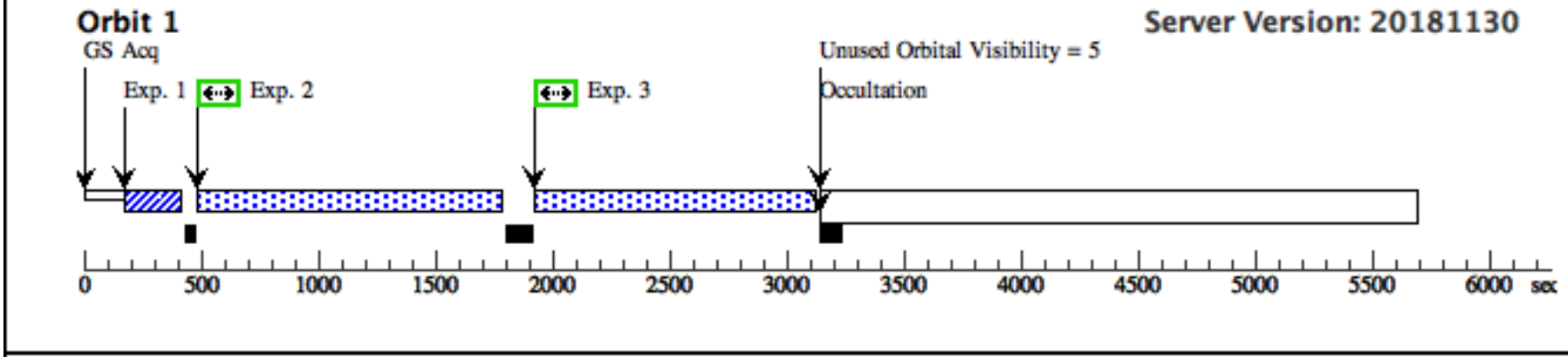
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	J132921.7493+144431.21	RA: 13 29 21.7493 (202.3406221d)		V= 18.66+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO01	Dec: +14 44 31.21 (14.74200d)		Magnitude is NUV	
		Equinox: J2000			

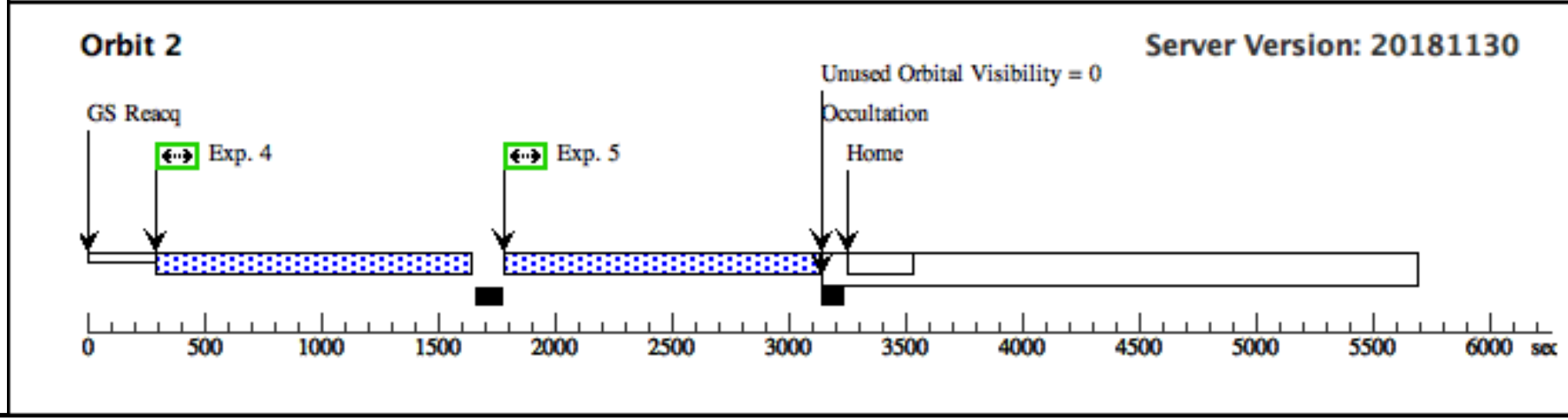
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1009386)	(1) J132921.7493+144431.21	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs)	
								[==>]	***[1]***
2	G230_3000 (COS.sp.1009365)	(1) J132921.7493+144431.21	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1155; FP-POS=1			1263 Secs (1187 Secs)	
								[==>1187.0 Secs]	***[1]***
3	G230_3000 (COS.sp.1009365)	(1) J132921.7493+144431.21	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1500; FP-POS=2			1264 Secs (1188 Secs)	
								[==>1188.0 Secs]	***[1]***
4	G230_3000 (COS.sp.1009365)	(1) J132921.7493+144431.21	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1309; FP-POS=3			1446 Secs (1333 Secs)	
								[==>1333.0 Secs]	***[2]***
5	G230_3000 (COS.sp.1009365)	(1) J132921.7493+144431.21	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1500; FP-POS=4			1446 Secs (1333 Secs)	
								[==>1333.0 Secs]	***[2]***

Orbit Structure





Visit

Proposal 15180, J133248.7134+395756.10 (24), completed Mon Jun 17 20:01:06 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J133248.7134+395756.10 (24)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

(J133248.7134+395756.10 (24)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J133248.7134+395756.10 (24)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

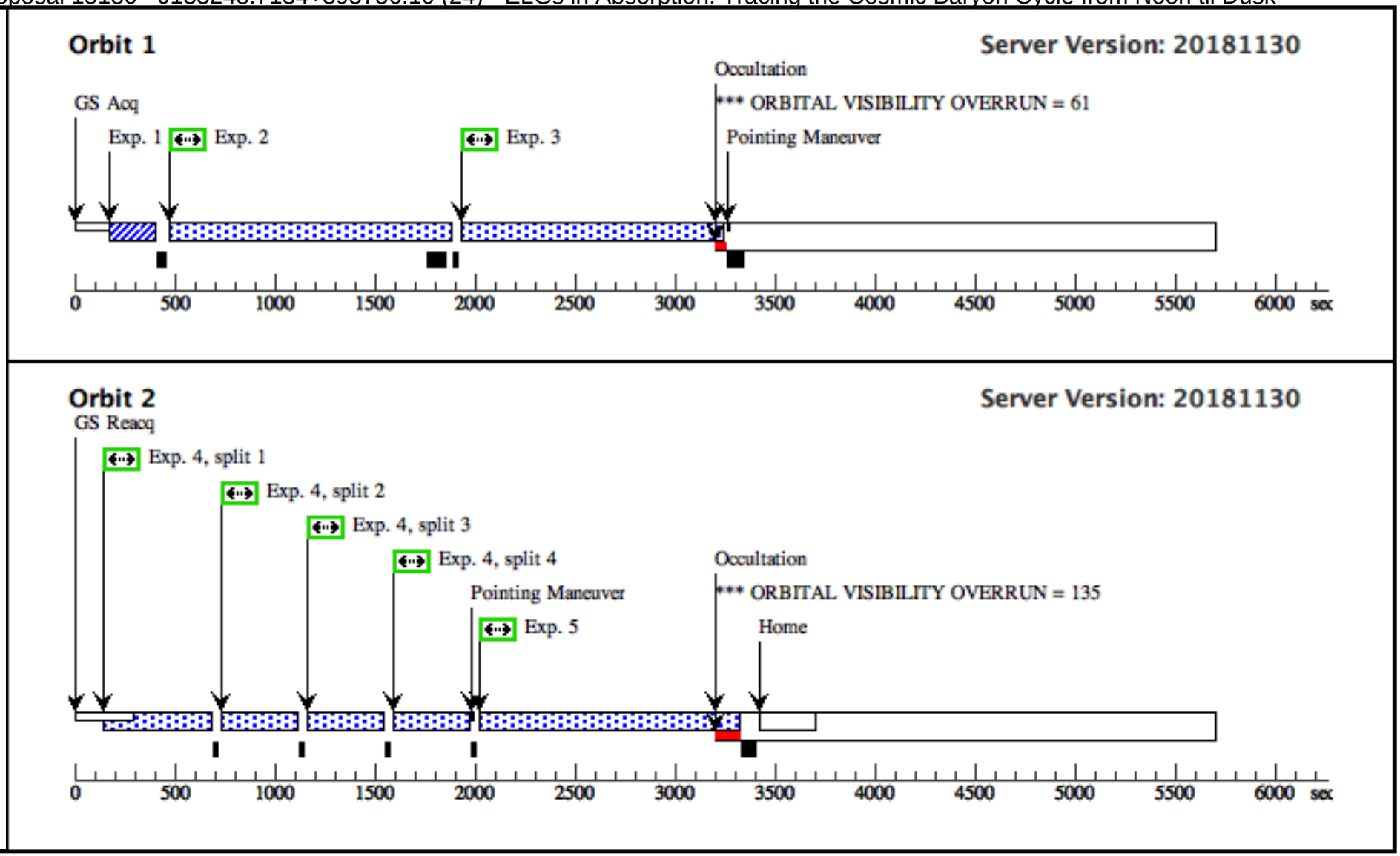
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	J133248.7134+395756.10	RA: 13 32 48.7134 (203.2029725d)		V=17.88+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO4	Dec: +39 57 56.10 (39.96558d)		Magnitude is NUV	
		Equinox: J2000			

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	ACQ (COS.ta.1009282)	(4) J133248.7134+395756.10	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				6 Secs (6 Secs) *[==>]*	 ***[1]***
2	G230_3000 (COS.sp.1009365)	(4) J133248.7134+395756.10	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1185; FP-POS=1			1295 Secs (1295 Secs) *[==>]*	 ***[1]***
3	G230_3000 (COS.sp.1009365)	(4) J133248.7134+395756.10	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1800; FP-POS=2			1295 Secs (1295 Secs) *[==>]*	 ***[1]***
4	G160M (COS.sp.1009367)	(4) J133248.7134+395756.10	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			326 Secs (1304 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	 ***[2]***
5	G230_3360 (COS.sp.1009366)	(4) J133248.7134+395756.10	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1763; FP-POS=1			1041 Secs (1041 Secs) *[==>]*	 ***[2]***

Orbit Structure



Visit

Proposal 15180, J134844.7693+024949.07 (20), completed Mon Jun 17 20:01:06 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J134844.7693+024949.07 (20)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

(J134844.7693+024949.07 (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J134844.7693+024949.07 (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J134844.7693+024949.07 (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

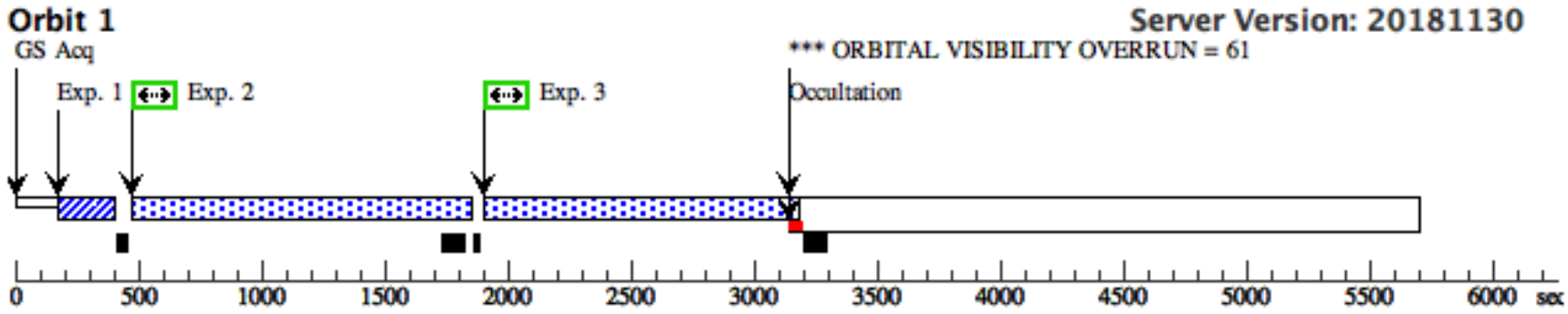
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(18)	J134844.7693+024949.07	RA: 13 48 44.7693 (207.1865388d)		V=17.91+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO18	Dec: +02 49 49.07 (2.83030d)		Magnitude is NUV	
		Equinox: J2000			

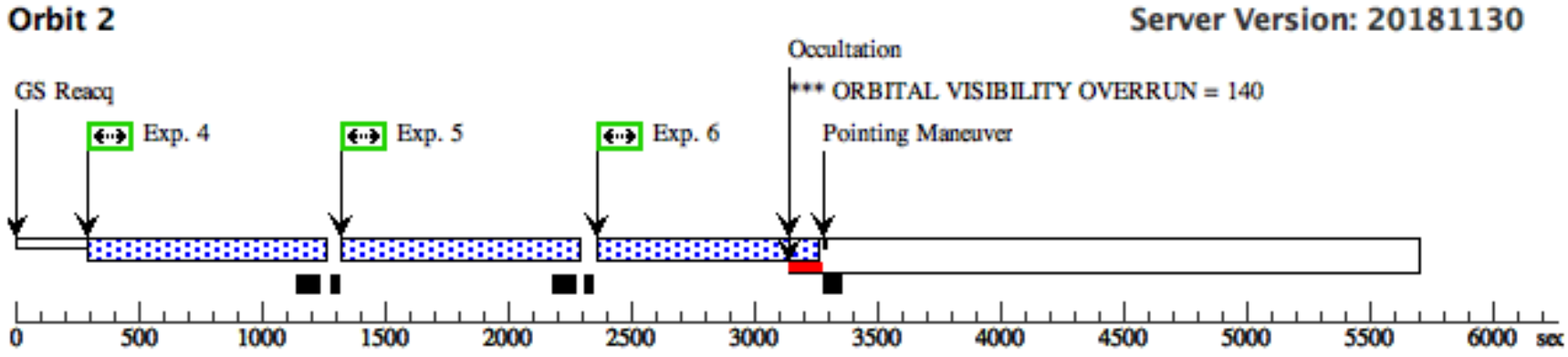
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

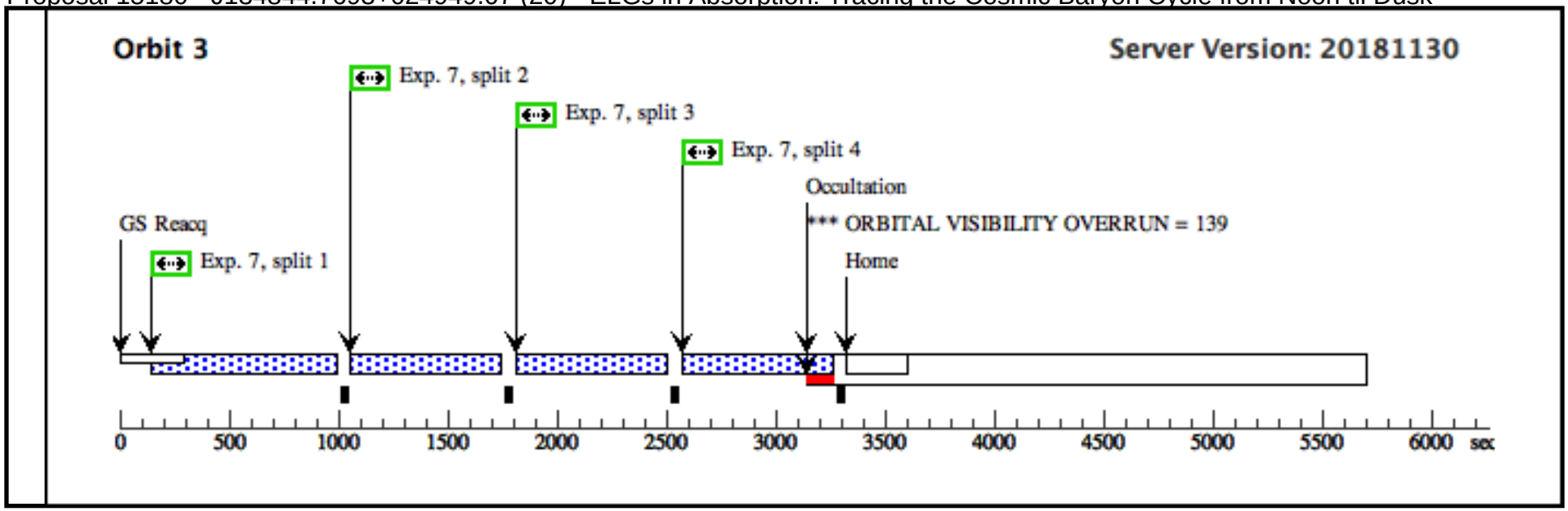
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1009072)	(18) J134844.7693+024949.07	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				6 Secs (6 Secs) *[==>]*	*[1]*
2	G230_3000 (COS.sp.1009365)	(18) J134844.7693+024949.07	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1156; FP-POS=1			1266 Secs (1266 Secs) *[==>]*	*[1]*
3	G230_3000 (COS.sp.1009365)	(18) J134844.7693+024949.07	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1500; FP-POS=2			1266 Secs (1266 Secs) *[==>]*	*[1]*
4	G230_3000 (COS.sp.1009365)	(18) J134844.7693+024949.07	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=840; FP-POS=3			951 Secs (951 Secs) *[==>]*	*[2]*
5	G230_3360 (COS.sp.1009366)	(18) J134844.7693+024949.07	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=777; FP-POS=1			887 Secs (887 Secs) *[==>]*	*[2]*
6	G230_3360 (COS.sp.1009366)	(18) J134844.7693+024949.07	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1500; FP-POS=2			887 Secs (887 Secs) *[==>]*	*[2]*
7	G160M (COS.sp.1009367)	(18) J134844.7693+024949.07	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			642 Secs (2568 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	*[3]*

Orbit Structure






Orbit 3
Server Version: 20181130
Exp. 7, split 2
Exp. 7, split 3
Exp. 7, split 4
Occultation
*** ORBITAL VISIBILITY OVERRUN = 139
GS Reacq
Exp. 7, split 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15180, J140023.1006+433852.04 (10), completed Mon Jun 17 20:01:06 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(J140023.1006+433852.04 (10)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

Fixed Targets

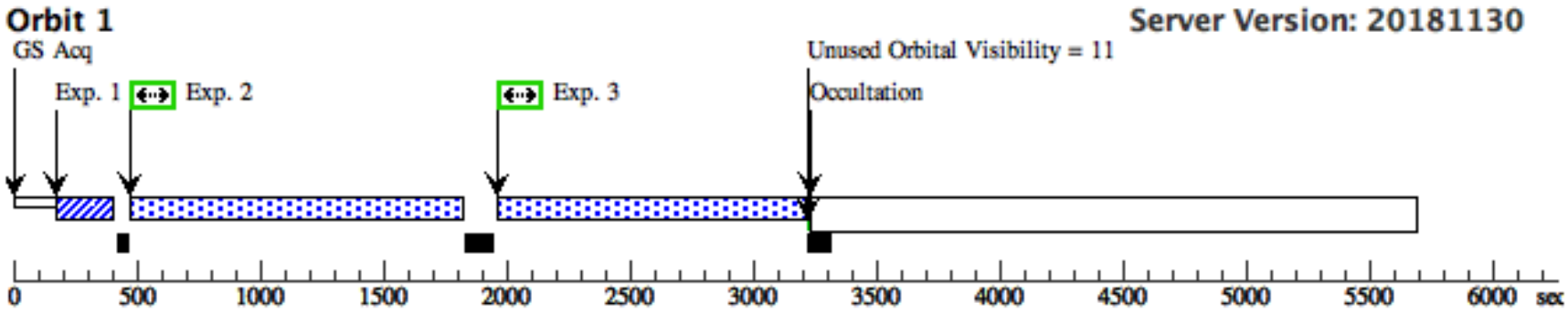
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(16)	J140023.1006+433852.04	RA: 14 00 23.1006 (210.0962525d)		V=18.13+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO16	Dec: +43 38 52.04 (43.64779d)		Magnitude is NUV	
		Equinox: J2000			

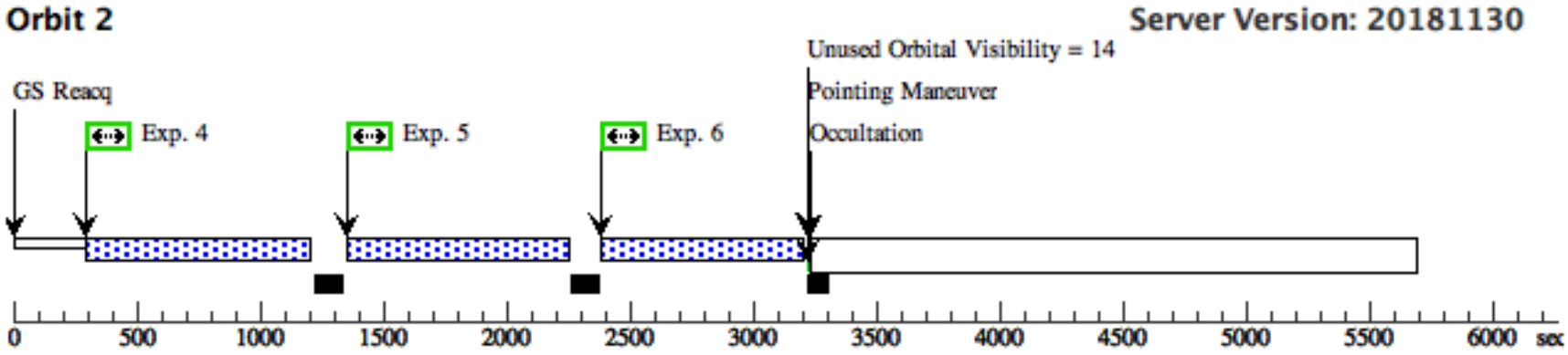
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

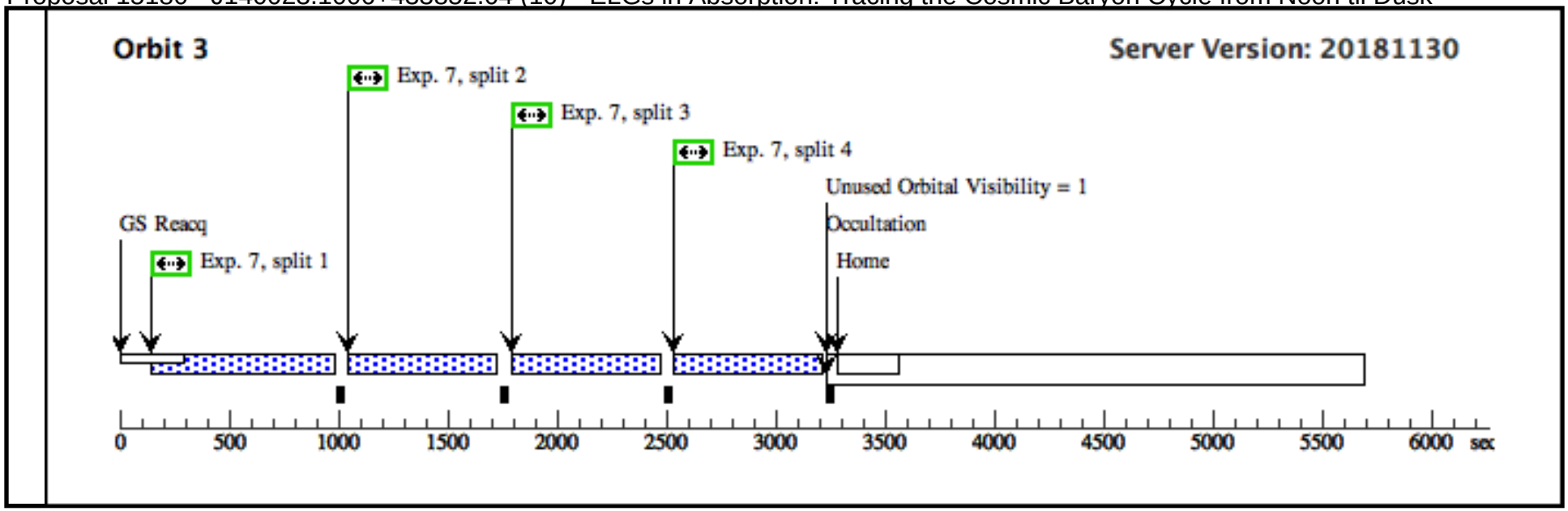
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1009389)	(16) J140023.1006+433852.04	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				7 Secs (7 Secs) *[==>]*	*[1]*
2	G230_3000 (COS.sp.1009365)	(16) J140023.1006+433852.04	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1198; FP-POS=1			1312 Secs (1234 Secs) *[==>1234.0 Secs]*	*[1]*
3	G230_3000 (COS.sp.1009365)	(16) J140023.1006+433852.04	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1500; FP-POS=2			1312 Secs (1234 Secs) *[==>1234.0 Secs]*	*[1]*
4	G230_3000 (COS.sp.1009365)	(16) J140023.1006+433852.04	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=890; FP-POS=3			1001 Secs (899 Secs) *[==>899.0 Secs]*	*[2]*
5	G230_3360 (COS.sp.1009366)	(16) J140023.1006+433852.04	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=778; FP-POS=1			910 Secs (808 Secs) *[==>808.0 Secs]*	*[2]*
6	G230_3360 (COS.sp.1009366)	(16) J140023.1006+433852.04	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1200; FP-POS=2			910 Secs (808 Secs) *[==>808.0 Secs]*	*[2]*
7	G160M (COS.sp.1009367)	(16) J140023.1006+433852.04	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			666 Secs (2524 Secs) *[==>631.0 Secs (Split 1)]* *[==>631.0 Secs (Split 2)]* *[==>631.0 Secs (Split 3)]* *[==>631.0 Secs (Split 4)]*	*[3]*

Orbit Structure






Orbit 3
Server Version: 20181130
Exp. 7, split 2
Exp. 7, split 3
Exp. 7, split 4
Unused Orbital Visibility = 1
GS Reacq
Occultation
Exp. 7, split 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15180, J145502.4609+085002.03 (09), failed Mon Jun 17 20:01:06 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Comments: ELGQSO14

Diagnostics

(J145502.4609+085002.03 (09)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

(J145502.4609+085002.03 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J145502.4609+085002.03 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J145502.4609+085002.03 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

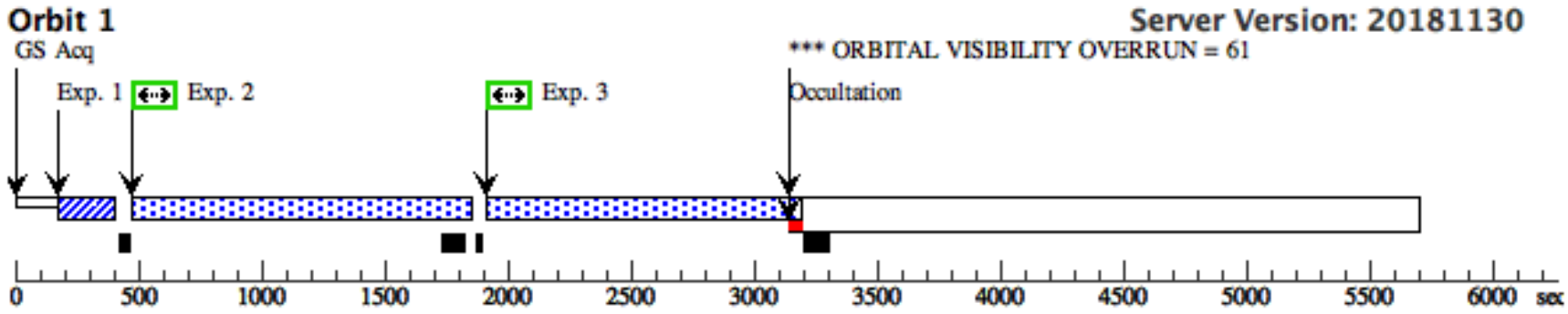
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(14)	J145502.4609+085002.03	RA: 14 55 2.4609 (223.7602538d)		V=18.16+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO14	Dec: +08 50 2.03 (8.83390d)		Magnitude is NUV	
		Equinox: J2000			

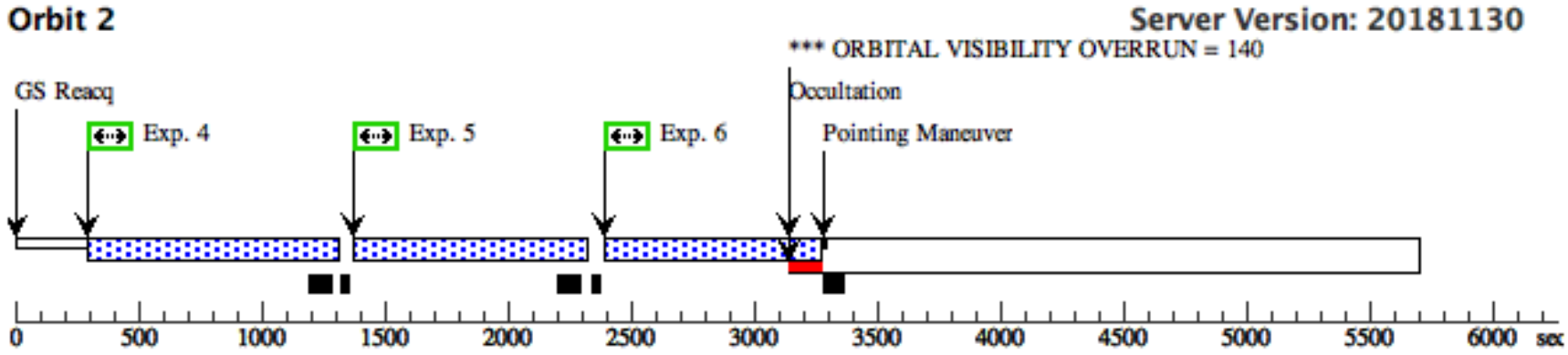
Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

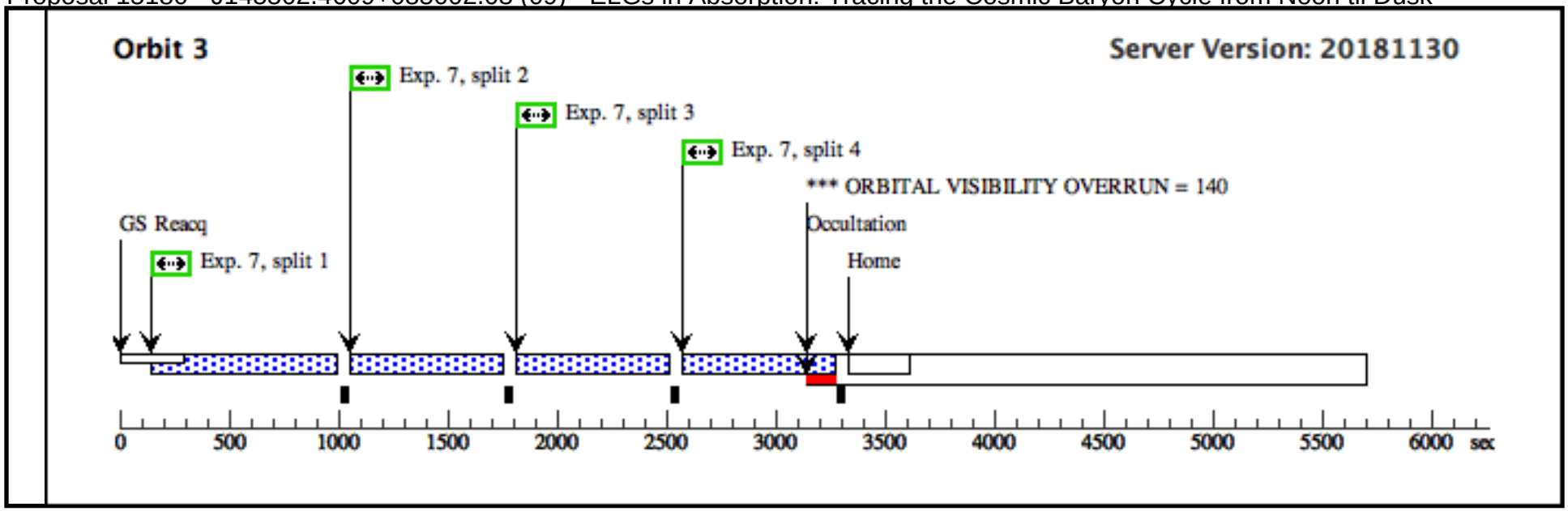
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.1009384)	(14) J145502.4609+085002.03	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				8 Secs (8 Secs) *[==>]*	 ***[1]***
2	G230_3000 (COS.sp.1009365)	(14) J145502.4609+085002.03	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1155; FP-POS=1			1265 Secs (1265 Secs) *[==>]*	 ***[1]***
3	G230_3000 (COS.sp.1009365)	(14) J145502.4609+085002.03	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1400; FP-POS=2			1266 Secs (1266 Secs) *[==>]*	 ***[1]***
4	G230_3000 (COS.sp.1009365)	(14) J145502.4609+085002.03	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=890; FP-POS=3			1000 Secs (1000 Secs) *[==>]*	 ***[2]***
5	G230_3360 (COS.sp.1009366)	(14) J145502.4609+085002.03	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=754; FP-POS=1			864 Secs (864 Secs) *[==>]*	 ***[2]***
6	G230_3360 (COS.sp.1009366)	(14) J145502.4609+085002.03	COS/NUV, TIME-TAG, PSA	G230L 3360 A	BUFFER-TIME=1200; FP-POS=2			864 Secs (864 Secs) *[==>]*	 ***[2]***
7	G160M (COS.sp.1009367)	(14) J145502.4609+085002.03	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=3347; FP-POS=ALL			643 Secs (2572 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	 ***[3]***

Orbit Structure






Orbit 3
Server Version: 20181130
Exp. 7, split 2
Exp. 7, split 3
Exp. 7, split 4
*** ORBITAL VISIBILITY OVERRUN = 140
GS Reacq
Occultation
Exp. 7, split 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15180, Visit 28, completed Mon Jun 17 20:01:07 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 28) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(14)	J145502.4609+085002.03	RA: 14 55 2.4609 (223.7602538d)		V=18.16+/-0.10	Reference Frame: ICRS
	Alt Name1: ELGQSO14	Dec: +08 50 2.03 (8.83390d)		Magnitude is NUV	
		Equinox: J2000			

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	ACQ (COS.ta.1009384)	(14) J145502.4609+085002.03	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				8 Secs (8 Secs) *[==>]*	*[1]*
2	G230_3000 (COS.sp.1009365)	(14) J145502.4609+085002.03	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1155; FP-POS=1			1265 Secs (1189 Secs) *[==>1189.0 Secs]*	*[1]*
3	G230_3000 (COS.sp.1009365)	(14) J145502.4609+085002.03	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=1400; FP-POS=2			1266 Secs (1190 Secs) *[==>1190.0 Secs]*	*[1]*

Orbit Structure