



18380 - The Coma filament

Cycle: 34, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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Dr. Bart P. Wakker (CoI) (Contact)	Eureka Scientific Inc.

VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) CSO1026	COS/FUV COS/NUV	2	11-Aug-2026 14:00:15.0	yes
02	(2) RXJ1342.1+3439	COS/FUV COS/NUV	3	11-Aug-2026 14:00:17.0	yes
03	(3) SDSSJ131312.20+284729.0	COS/FUV COS/NUV	3	11-Aug-2026 14:00:19.0	yes
04	(3) SDSSJ131312.20+284729.0	COS/FUV COS/NUV	2	11-Aug-2026 14:00:20.0	yes
05	(4) SDSSJ131334.71+295051.2	COS/FUV COS/NUV	2	11-Aug-2026 14:00:22.0	yes
06	(4) SDSSJ131334.71+295051.2	COS/FUV COS/NUV	2	11-Aug-2026 14:00:23.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
07	(5) SDSSJ132820.60+311525.0	COS/FUV COS/NUV	2	11-Aug-2026 14:00:24.0	yes
08	(6) SDSSJ133456.20+321647.0	COS/FUV COS/NUV	2	11-Aug-2026 14:00:25.0	yes
09	(7) SDSSJ133628.20+320345.0	COS/FUV COS/NUV	2	11-Aug-2026 14:00:27.0	yes
10	(8) SDSSJ134835.30+345753.0	COS/FUV COS/NUV	3	11-Aug-2026 14:00:29.0	yes
11	(9) SDSSJ135015.40+362654.0	COS/FUV COS/NUV	3	11-Aug-2026 14:00:30.0	yes
12	(10) US245	COS/FUV COS/NUV	3	11-Aug-2026 14:00:32.0	yes
13	(11) US415	COS/FUV COS/NUV	3	11-Aug-2026 14:00:34.0	yes

32 Total Orbits Used

ABSTRACT

Simulations predict that Cosmic Web filaments harbor ~30-40% of all baryons at low redshift, primarily as warm-hot gas detectable through UV absorption. Such filaments are thought to have a cool-to-hot accretion region (10^4 - 10^6 K), a central cooler spine ($\sim 10^5$ K), and a slow flow toward the nearest galaxy cluster. We propose to study the NE filament of the Coma Cluster - the best case for this investigation in the nearby universe. It has a rich set of ancillary data (SDSS galaxies, SZ maps) and constrained simulations. This program will characterize the width and structure of the filament, its gas properties, and any velocities associated with filament accretion and flow toward the cluster. Archival COS spectra demonstrate feasibility through Ly α detections, but there are too few sight lines to explore the expected cool spine or to determine the filament width. We propose COS G130M observations of 11 AGN sightlines, combined with 6 archival sightlines in order to: (1) measure the gas-phase filament width (predicted 1-3 Mpc); (2) map the velocity field to test accretion onto the filament and its flow toward the cluster; and (3) constrain the warm baryon mass. These observations exploit HST's FUV spectroscopic capability and will provide the first spatially resolved UV absorption map of a Cosmic Web filament feeding a massive cluster, directly testing predictions from constrained simulations.

OBSERVING DESCRIPTION

Target Selection. We found our targets by combining the Veron-Cetty & Veron quasar catalog, the SDSS DR16 quasar catalog, and the Million Quasars Catalog (Flesch 2023), cross-matched with GALEX photometry. We selected AGN for which COS can achieve $S/N \sim 8$ per resolution element in ~ 6 orbits, requiring FUV flux $> 6 \times 10^{15}$ erg/s/cm²/Å. Each candidate was visually inspected in GALEX FUV/NUV images and the DESI Legacy Imaging Survey (<https://www.legacysurvey.org>) to confirm it is a point source.

The COS-G130M grating will be set to a central wavelength of 1291 Å, using FP-POS=3 and 4. Guide star acquisition and grating setup takes ~ 700 seconds in the first orbit, ~ 300 s in later ones, leaving $\sim 1,800$ and $2,100$ seconds of exposure time, respectively. Visits will be limited to three orbits, with multiple visits for some targets. They are not bright enough to pose a bright limit threat.

Detection Feasibility. We search for warm photoionized and collisionally ionized gas at $T \sim 10^{4.5} - 10^{5.5}$ K, corresponding to Doppler parameters $b \sim 20 - 50$ km/s. At $\log N(\text{H I}) = 13.0 - 13.5$, expected equivalent widths are 80-300 mÅ, producing line depths of 20-80% of the continuum. At $S/N = 8$ in the continuum this comfortably reveals stronger lines and provides meaningful upper limits on weaker ones. For the hottest detectable gas ($10^{5.5}$ K, $b = 50$ km/s), lines with $W \sim 100$ mÅ have depths $\sim 30\%$ and remain detectable. We note explicitly that gas at $T > 10^6$ K produces Ly-alpha that is too broad and shallow for detection at this S/N ; such gas is instead constrained by the SZ measurement.

Justification of COS Settings. We use only G130M-1291, covering 1134-1274 and 1291-1441 Å.

Lifetime position limitations. With 11 moderate S/N exposures using G130M-1291, we remain well within the 200-target limit.

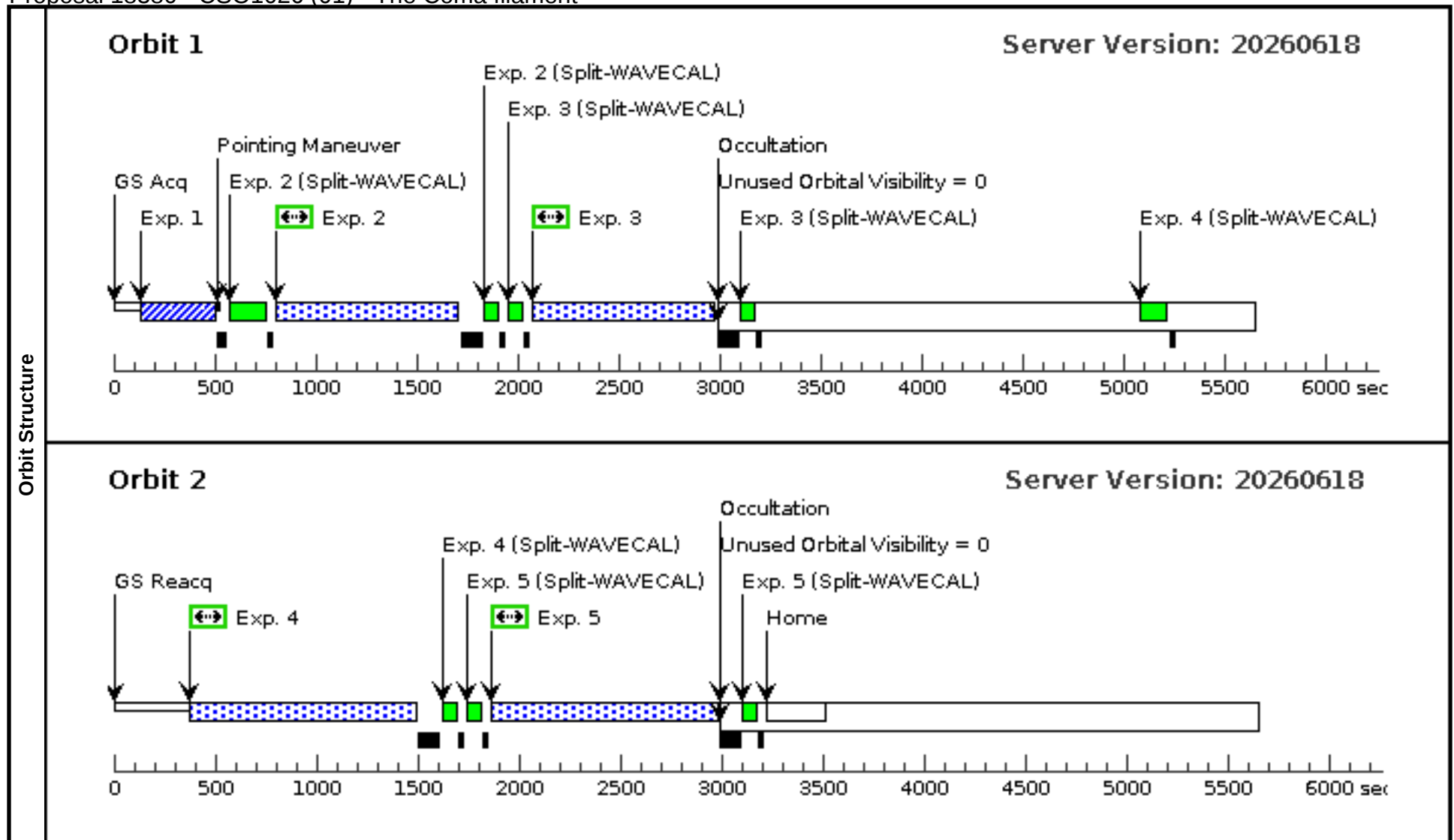
Note that APT gives two warnings.

First it says 'inefficient ordering of FP-POS settings. But if they are exchanged with FE-POS=4 before FP-POS=3 there are visibility overruns and the exposure time would be shorter

Second, it says that exposures are longer than 900 seconds and this can lead to smearing due to drift. The exposures are at most 1059 seconds, this the overrun time is negligible.

Proposal 18380 - CSO1026 (01) - The Coma filament

Visit	Proposal 18380, CSO1026 (01)										Tue Aug 11 18:00:35 GMT 2026			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnostics	(CSO1026 (01)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s													
	(CSO1026 (01)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s													
	(CSO1026 (01)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS													
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(1)	CSO1026	RA: 13 55 29.0700 (208.8711250d)			Proper Motion RA: 0			V=17.31+/-0.1		Reference Frame: ICRS			
			Dec: +35 23 31.95 (35.39221d)			Proper Motion Dec: 0			F=0.28E-14@1250; z=0.315					
			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	CSO1026-A	(1) CSO1026	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				31 Secs (31 Secs)				
		CQ	(COS.ta.236							[==>]		[1]		
		2014)												
		Comments: Acquisition exposure total count rate 1134/sec SN=30												
	2	CSO1026-1.	(1) CSO1026	COS/FUV, ACCUM, PSA		G130M	FP-POS=3;			843 Secs (843 Secs)				
		3	(COS.sp.236			1291 A	LIFETIME-POS=L			[==>]		[1]		
		1983)					P7							
		Comments: Exposure with FP-POS=3, first orbit total count rate 321/sec												
	3	CSO1026-1.	(1) CSO1026	COS/FUV, ACCUM, PSA		G130M	FP-POS=4;			842 Secs (842 Secs)				
		4	(COS.sp.236			1291 A	LIFETIME-POS=L			[==>]		[1]		
		1983)					P7							
		Comments: Exposure with FP-POS=4, first orbit total count rate 321/sec												
	4	CSO1026-2.	(1) CSO1026	COS/FUV, ACCUM, PSA		G130M	FP-POS=3;			1059 Secs (1059 Secs)				
		3	(COS.sp.236			1291 A	LIFETIME-POS=L			[==>]		[2]		
		1983)					P7							
		Comments: Exposure with FP-POS=3, second orbit total count rate 321/sec												
	5	CSO1026-2.	(1) CSO1026	COS/FUV, ACCUM, PSA		G130M	FP-POS=4;			1058 Secs (1058 Secs)				
		4	(COS.sp.236			1291 A	LIFETIME-POS=L			[==>]		[2]		
		1983)					P7							
		Comments: Exposure with FP-POS=4, second orbit total count rate 321/sec												



Proposal 18380 - RXJ1352.1+3439 (02) - The Coma filament

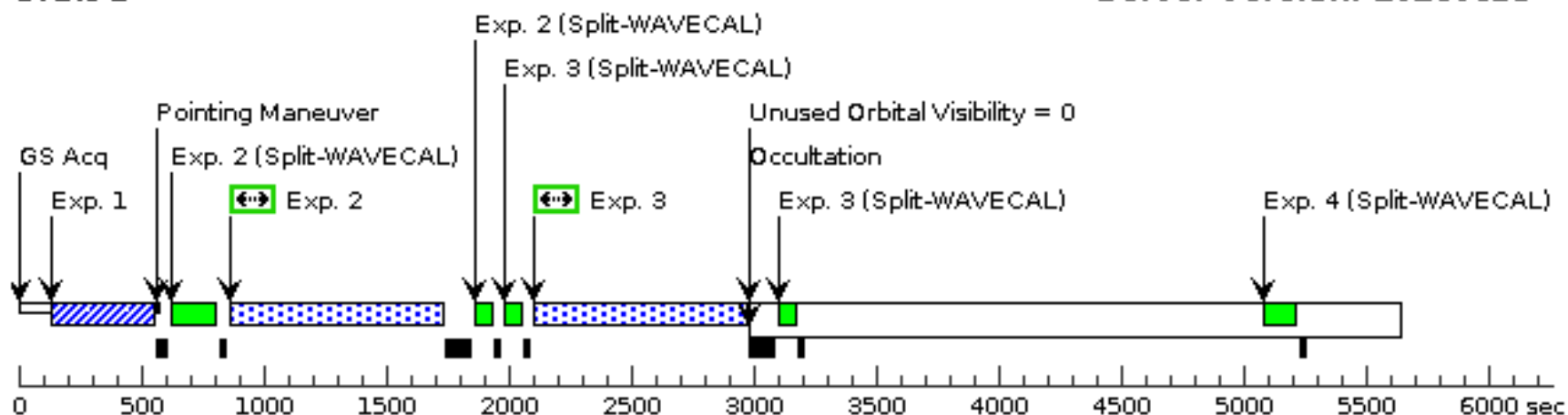
Visit	Proposal 18380, RXJ1352.1+3439 (02) Tue Aug 11 18:00:35 GMT 2026				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)				
Diagnostics	(RXJ1352.1+3439 (02)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s (RXJ1352.1+3439 (02)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s (RXJ1352.1+3439 (02)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s (RXJ1352.1+3439 (02)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s (RXJ1352.1+3439 (02)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(2)	RXJ1342.1+3439	RA: 13 42 8.2000 (205.5341667d) Dec: +34 39 6.36 (34.65177d) Equinox: J2000	Proper Motion RA: 0 Proper Motion Dec: 0	V=18.03+/-0.1 F=0.15E-14@1250; z=0.490
Fixed Targets	Comments: Category=GALAXY Description=[QSO] Extended=NO				
	Reference Frame: ICRS				

Proposal 18380 - RXJ1352.1+3439 (02) - The Coma filament

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	RXJ1352.1+ 3439-ACQ (COS.ta.236 2015)	(2) RXJ1342.1+3439	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				58 Secs (58 Secs) [==>]	[1]
	Comments: Acquisition exposure total count rate 1114/sec SN=40									
	2	RXJ1352.1+ 3439-1.3 (COS.sp.236 1984)	(2) RXJ1342.1+3439	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			813 Secs (813 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 292/sec									
	3	RXJ1352.1+ 3439-1.4 (COS.sp.236 1984)	(2) RXJ1342.1+3439	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			813 Secs (813 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=4, first orbit total count rate 292/sec									
	4	RXJ1352.1+ 3439-2.3 (COS.sp.236 1984)	(2) RXJ1342.1+3439	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			1056 Secs (1056 Secs) [==>]	[2]
	Comments: Exposure with FP-POS=3, second orbit total count rate 292/sec									
	5	RXJ1352.1+ 3439-2.4 (COS.sp.236 1984)	(2) RXJ1342.1+3439	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			1056 Secs (1056 Secs) [==>]	[2]
	Comments: Exposure with FP-POS=4, second orbit total count rate 292/sec									
	6	RXJ1352.1+ 3439-3.3 (COS.sp.236 1984)	(2) RXJ1342.1+3439	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			1056 Secs (1056 Secs) [==>]	[3]
	Comments: Exposure with FP-POS=3, third orbit total count rate 292/sec									
	7	RXJ1352.1+ 3439-3.4 (COS.sp.236 1984)	(2) RXJ1342.1+3439	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			1056 Secs (1056 Secs) [==>]	[3]
	Comments: Exposure with FP-POS=4, third orbit total count rate 292/sec									

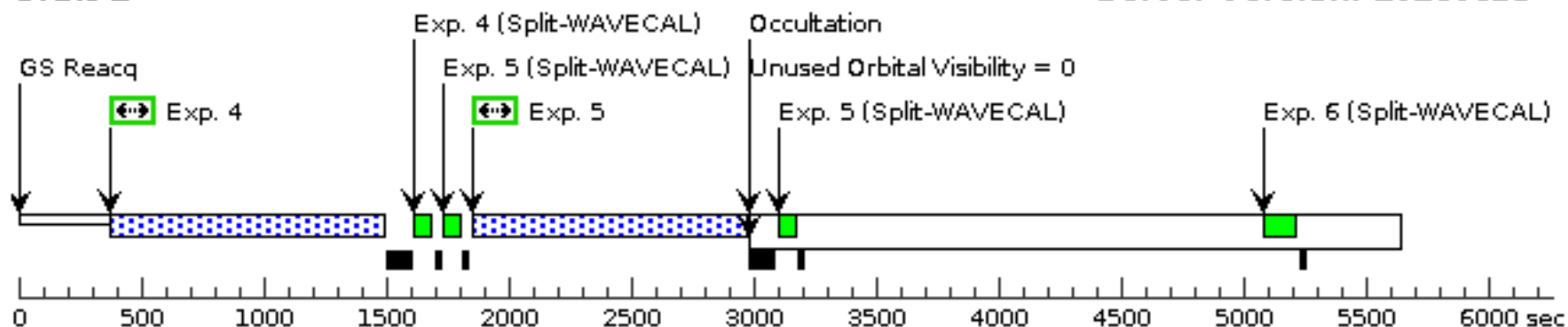
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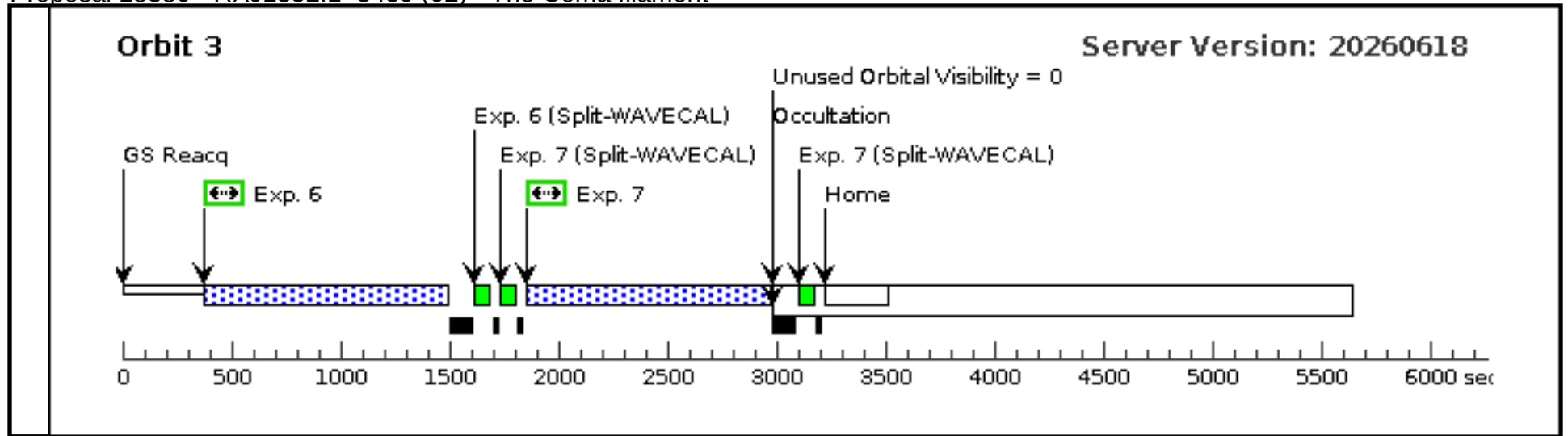
Server Version: 20260618



Orbit 2

Server Version: 20260618





Proposal 18380 - SDSSJ131312.20+284729.0-1 (03) - The Coma filament

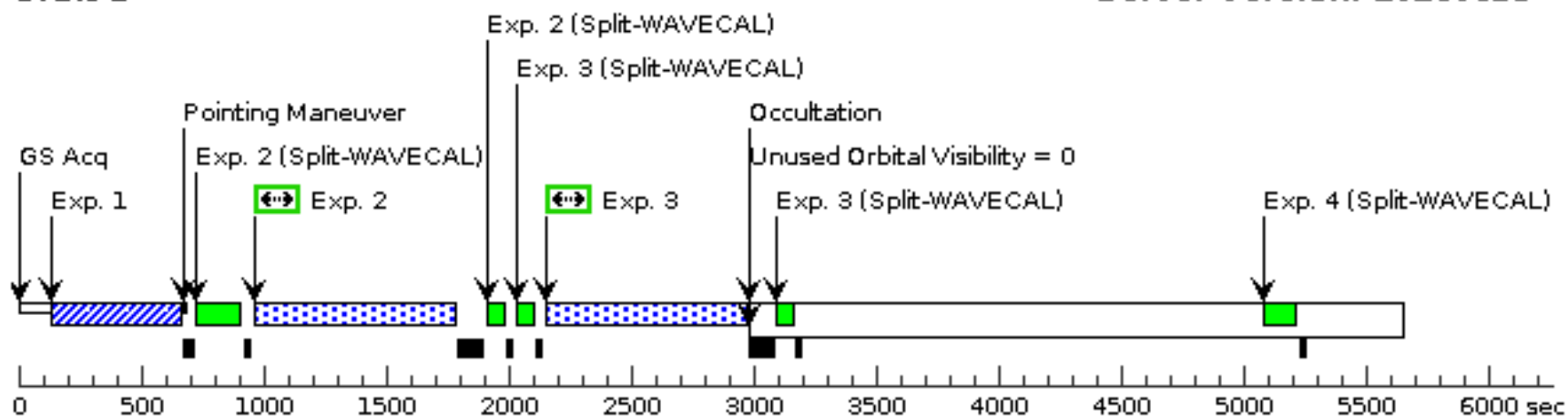
Visit	Proposal 18380, SDSSJ131312.20+284729.0-1 (03) Tue Aug 11 18:00:35 GMT 2026				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)				
Diagnostics	(SDSSJ131312.20+284729.0-1 (03)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s				
	(SDSSJ131312.20+284729.0-1 (03)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s				
	(SDSSJ131312.20+284729.0-1 (03)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s				
	(SDSSJ131312.20+284729.0-1 (03)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s				
	(SDSSJ131312.20+284729.0-1 (03)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(3)	SDSSJ131312.20+284729.0	RA: 13 13 12.1300 (198.3005417d) Dec: +28 47 30.02 (28.79167d) Equinox: J2000	Proper Motion RA: 0 Proper Motion Dec: 0	V=18.72+/-0.1 F=0.08E-14@1250; z=0.258
Comments: Category=GALAXY Description=[QSO] Extended=NO					
Reference Frame: ICRS					

Proposal 18380 - SDSSJ131312.20+284729.0-1 (03) - The Coma filament

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSSJ1313 12.20+2847 29.0-ACQ (COS.ta.236 2016)	(3) SDSSJ131312.20 +284729.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				110 Secs (110 Secs) [>=>]	[1]
	Comments: Acquisition exposure total count rate 1104/sec SN=30									
	2	SDSSJ1313 12.20+2847 29.0-1.1.3 (COS.sp.236 1986)	(3) SDSSJ131312.20 +284729.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			759 Secs (759 Secs) [>=>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 276/sec									
	3	SDSSJ1313 12.20+2847 29.0-1.1.4 (COS.sp.236 1986)	(3) SDSSJ131312.20 +284729.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			759 Secs (759 Secs) [>=>]	[1]
	Comments: Exposure with FP-POS=4, first orbit total count rate 276/sec									
	4	SDSSJ1313 12.20+2847 29.0-1.2.3 (COS.sp.236 1986)	(3) SDSSJ131312.20 +284729.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			1054 Secs (1054 Secs) [>=>]	[2]
	Comments: Exposure with FP-POS=3, second orbit total count rate 276/sec									
	5	SDSSJ1313 12.20+2847 29.0-1.2.4 (COS.sp.236 1986)	(3) SDSSJ131312.20 +284729.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			1054 Secs (1054 Secs) [>=>]	[2]
Comments: Exposure with FP-POS=4, second orbit total count rate 276/sec										
6	SDSSJ1313 12.20+2847 29.0-1.3.3 (COS.sp.236 1986)	(3) SDSSJ131312.20 +284729.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			1054 Secs (1054 Secs) [>=>]	[3]	
Comments: Exposure with FP-POS=3, third orbit total count rate 276/sec										
7	SDSSJ1313 12.20+2847 29.0-1.3.4 (COS.sp.236 1986)	(3) SDSSJ131312.20 +284729.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			1054 Secs (1054 Secs) [>=>]	[3]	
Comments: Exposure with FP-POS=4, third orbit total count rate 276/sec										

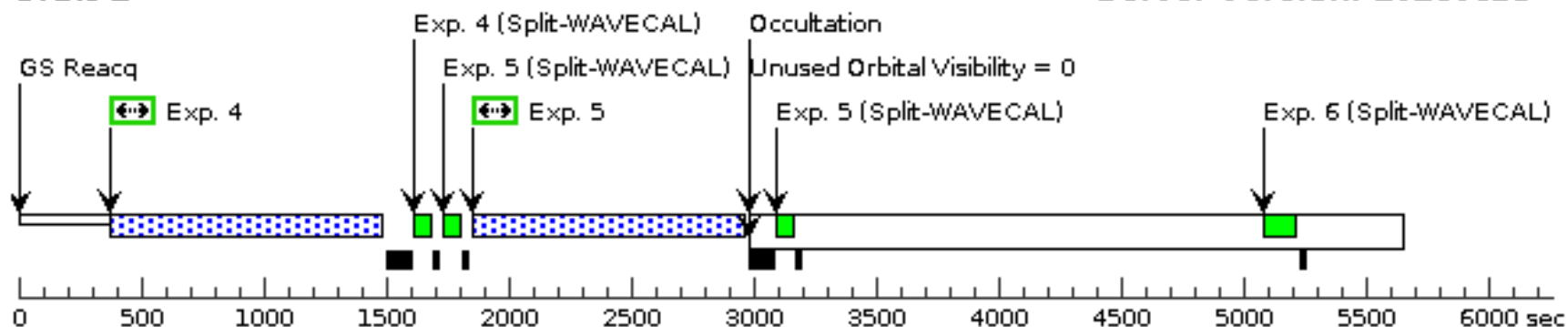
Orbit 1

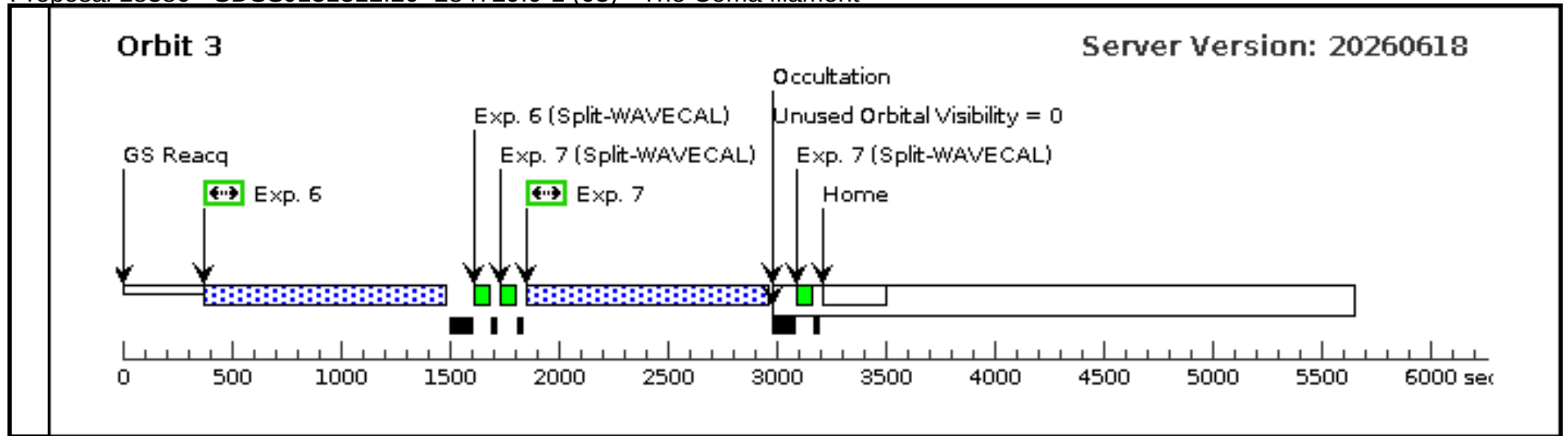
Server Version: 20260618



Orbit 2

Server Version: 20260618



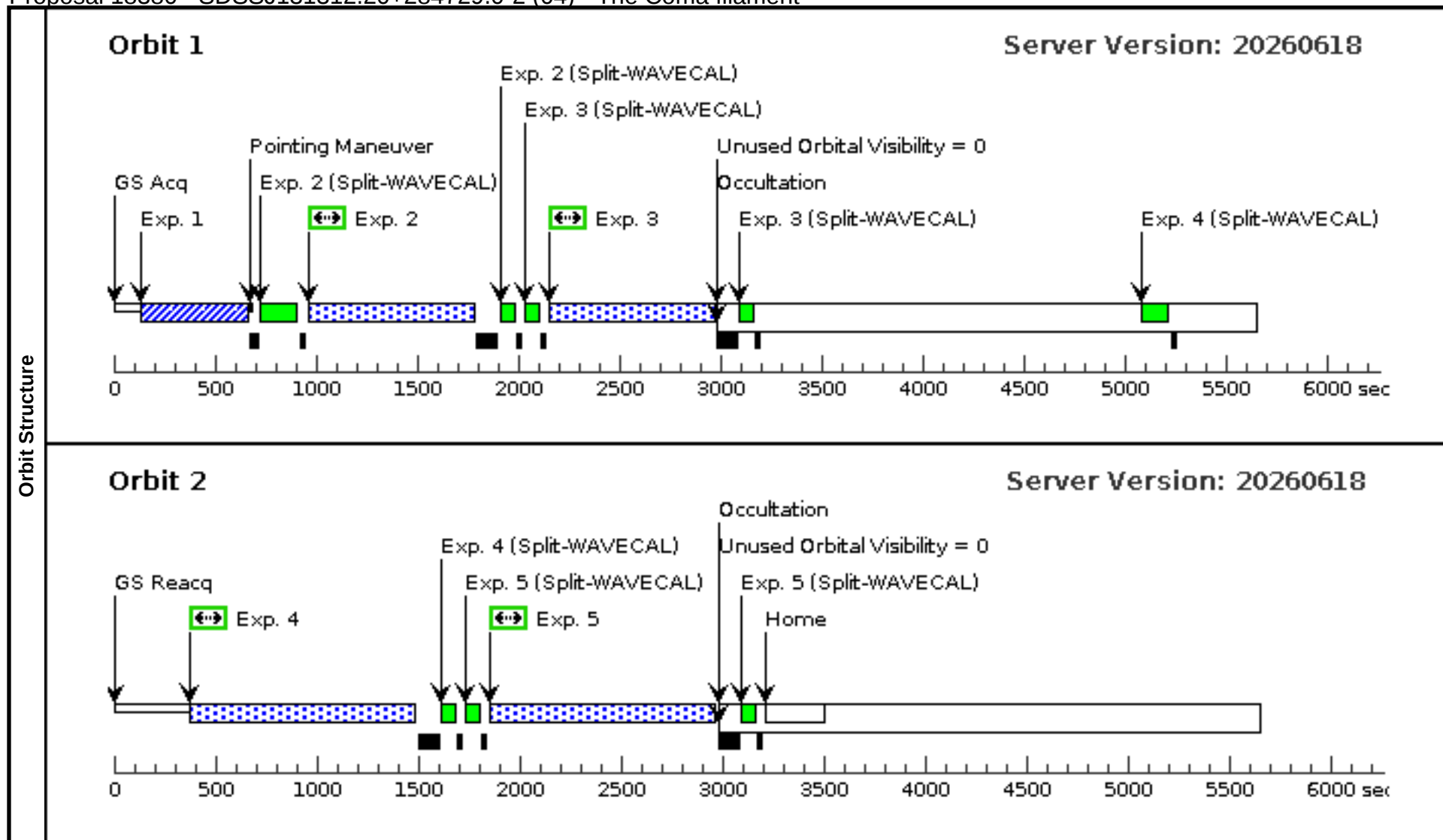


Proposal 18380 - SDSSJ131312.20+284729.0-2 (04) - The Coma filament

Visit	Proposal 18380, SDSSJ131312.20+284729.0-2 (04) Tue Aug 11 18:00:35 GMT 2026				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)				
Diagnostics	(SDSSJ131312.20+284729.0-2 (04)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s (SDSSJ131312.20+284729.0-2 (04)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s (SDSSJ131312.20+284729.0-2 (04)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(3)	SDSSJ131312.20+284729.0	RA: 13 13 12.1300 (198.3005417d) Dec: +28 47 30.02 (28.79167d) Equinox: J2000	Proper Motion RA: 0 Proper Motion Dec: 0	V=18.72+/-0.1 F=0.08E-14@1250; z=0.258
Fixed Targets	Comments: Category=GALAXY Description=[QSO] Extended=NO				
	Reference Frame: ICRS				

Proposal 18380 - SDSSJ131312.20+284729.0-2 (04) - The Coma filament

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSSJ1313 12.20+2847 29.0-ACQ (COS.ta.236 2016)	(3) SDSSJ131312.20 +284729.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				110 Secs (110 Secs) [==>]	[1]
	Comments: Acquisition exposure total count rate 1104/sec SN=30									
	2	SDSSJ1313 12.20+2847 29.0-2.1.3 (COS.sp.236 1986)	(3) SDSSJ131312.20 +284729.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			759 Secs (759 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 344/sec									
	3	SDSSJ1313 12.20+2847 29.0-2.1.4 (COS.sp.236 1986)	(3) SDSSJ131312.20 +284729.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			759 Secs (759 Secs) [==>]	[1]
Comments: Exposure with FP-POS=4, first orbit total count rate 344/sec										
	4	SDSSJ1313 12.20+2847 29.0-2.2.3 (COS.sp.236 1986)	(3) SDSSJ131312.20 +284729.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			1054 Secs (1054 Secs) [==>]	[2]
	Comments: Exposure with FP-POS=3, second orbit total count rate 344/sec									
	5	SDSSJ1313 12.20+2847 29.0-2.2.4 (COS.sp.236 1986)	(3) SDSSJ131312.20 +284729.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			1054 Secs (1054 Secs) [==>]	[2]
Comments: Exposure with FP-POS=4, second orbit total count rate 344/sec										

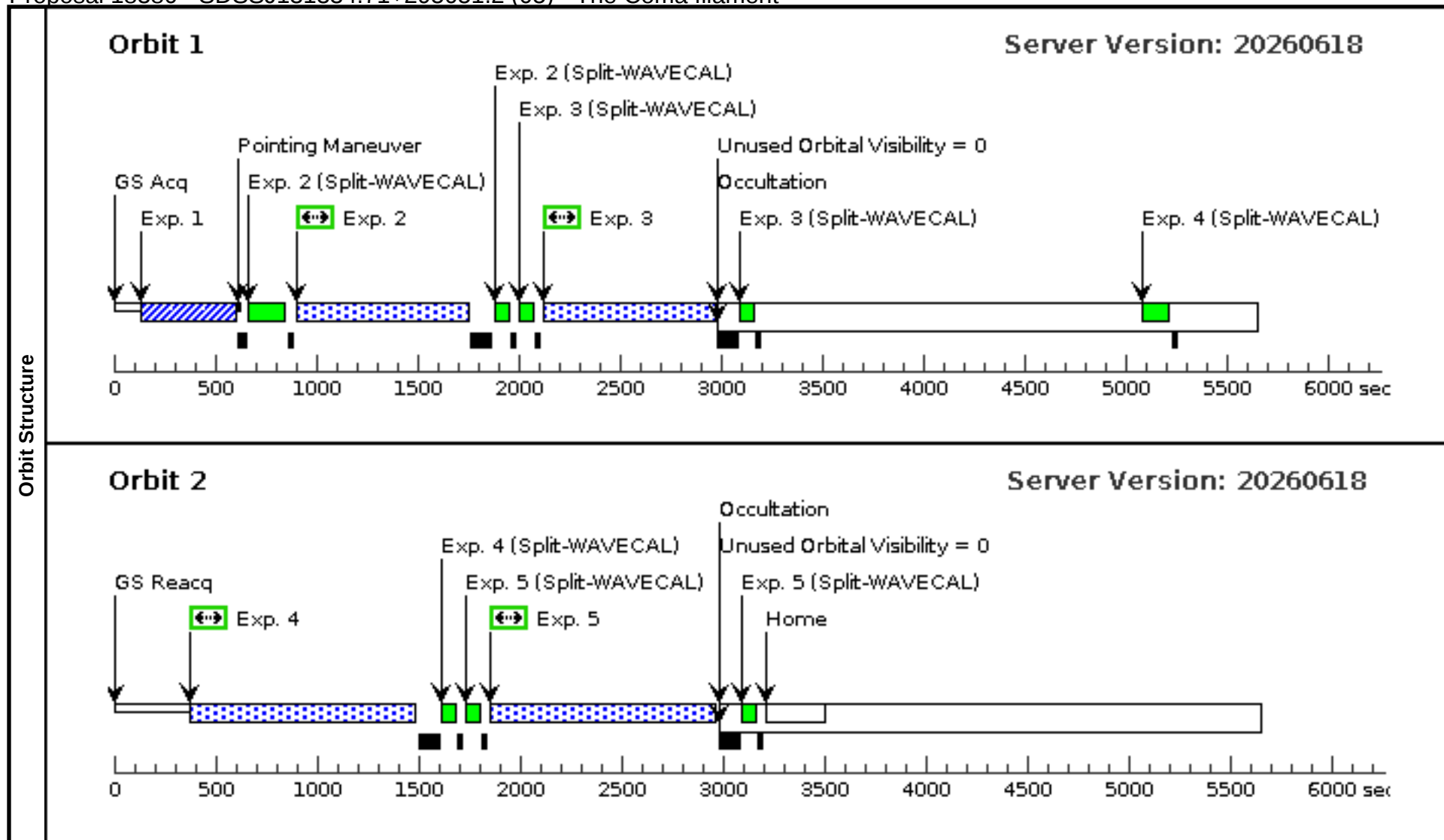


Proposal 18380 - SDSSJ131334.71+295051.2 (05) - The Coma filament

Visit	Proposal 18380, SDSSJ131334.71+295051.2 (05) Tue Aug 11 18:00:35 GMT 2026				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)				
Diagnostics	(SDSSJ131334.71+295051.2 (05)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s (SDSSJ131334.71+295051.2 (05)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s (SDSSJ131334.71+295051.2 (05)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(4)	SDSSJ131334.71+295051.2	RA: 13 13 34.7100 (198.3946250d) Dec: +29 50 51.18 (29.84755d) Equinox: J2000	Proper Motion RA: 0 Proper Motion Dec: 0	V=19.50+/-0.1 F=0.11E-14@1250; z=0.400
Fixed Targets	Miscellaneous Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO				

Proposal 18380 - SDSSJ131334.71+295051.2 (05) - The Coma filament

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSSJ1313 34.71+2950 51.2-ACQ (COS.ta.236 2017)	(4) SDSSJ131334.71 +295051.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				80 Secs (80 Secs)	
									[==>]	[1]
	Comments: Acquisition exposure total count rate 1108/sec SN=30									
	2	SDSSJ1313 34.71+2950 51.2-1.1.3 (COS.sp.236 1987)	(4) SDSSJ131334.71 +295051.2	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			789 Secs (789 Secs)	
									[==>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 344/sec									
Exposures	3	SDSSJ1313 34.71+2950 51.2-1.1.4 (COS.sp.236 1987)	(4) SDSSJ131334.71 +295051.2	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			789 Secs (789 Secs)	
									[==>]	[1]
	Comments: Exposure with FP-POS=4, first orbit total count rate 344/sec									
	4	SDSSJ1313 34.71+2950 51.2-1.2.3 (COS.sp.236 1987)	(4) SDSSJ131334.71 +295051.2	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			1054 Secs (1054 Secs)	
									[==>]	[2]
	Comments: Exposure with FP-POS=3, second orbit total count rate 344/sec									
Exposures	5	SDSSJ1313 34.71+2950 51.2-1.2.4 (COS.sp.236 1987)	(4) SDSSJ131334.71 +295051.2	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			1054 Secs (1054 Secs)	
									[==>]	[2]
	Comments: Exposure with FP-POS=4, second orbit total count rate 344/sec									

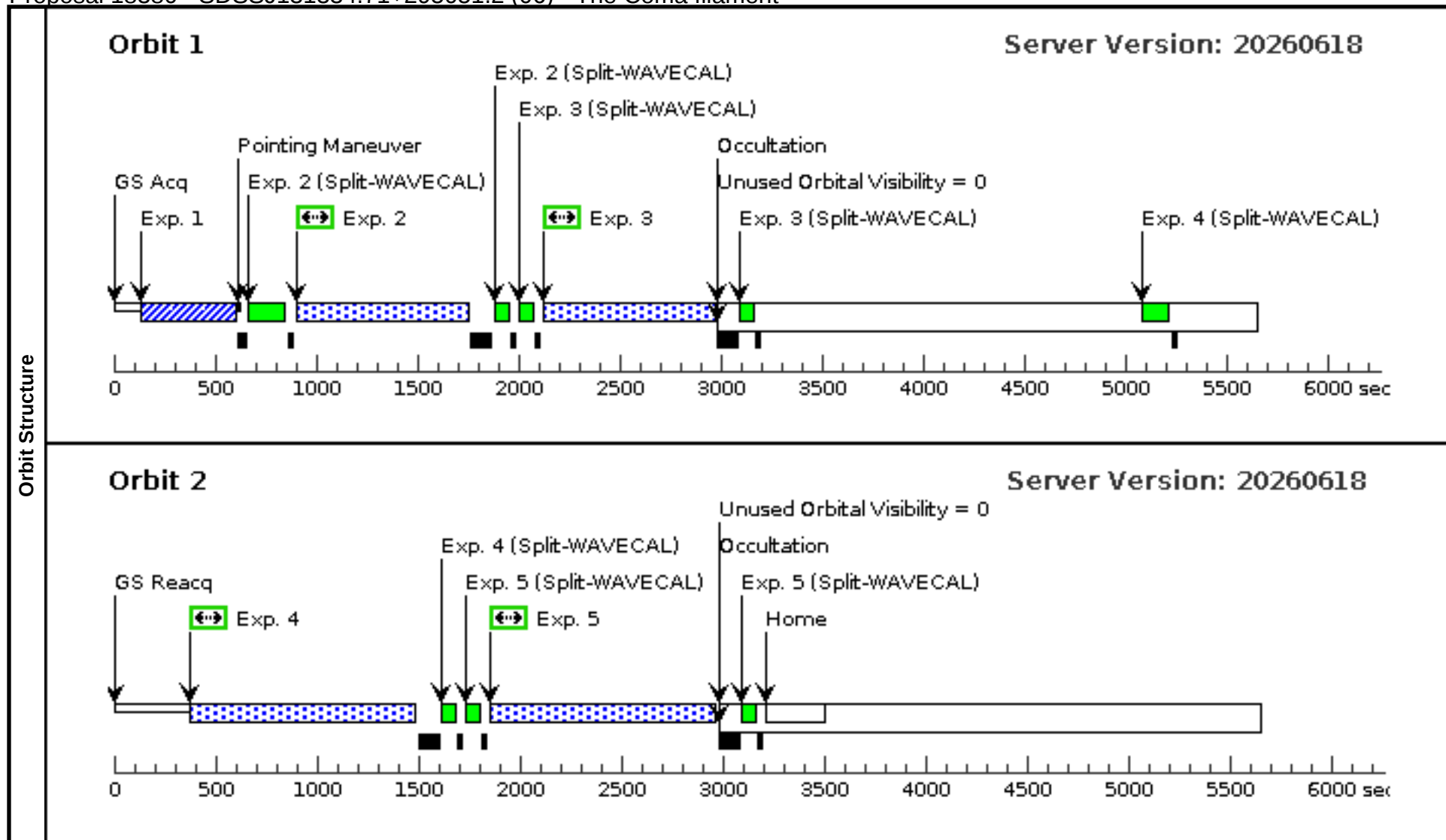


Proposal 18380 - SDSSJ131334.71+295051.2 (06) - The Coma filament

Visit	Proposal 18380, SDSSJ131334.71+295051.2 (06) Tue Aug 11 18:00:35 GMT 2026				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)				
Diagnostics	(SDSSJ131334.71+295051.2 (06)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s (SDSSJ131334.71+295051.2 (06)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s (SDSSJ131334.71+295051.2 (06)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(4)	SDSSJ131334.71+295051.2	RA: 13 13 34.7100 (198.3946250d) Dec: +29 50 51.18 (29.84755d) Equinox: J2000	Proper Motion RA: 0 Proper Motion Dec: 0	V=19.50+/-0.1 F=0.11E-14@1250; z=0.400
	Miscellaneous Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO				

Proposal 18380 - SDSSJ131334.71+295051.2 (06) - The Coma filament

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	SDSSJ1313 34.71+2950 51.2-ACQ (COS.ta.236 2017)	(4) SDSSJ131334.71 +295051.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				80 Secs (80 Secs)		
									[==>]		[1]
	Comments: Acquisition exposure total count rate 1108/sec SN=30										
	2	SDSSJ1313 34.71+2950 51.-2.1.3 (COS.sp.236 1987)	(4) SDSSJ131334.71 +295051.2	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			789 Secs (789 Secs)		
									[==>]		[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 344/sec										
Exposures	3	SDSSJ1313 34.71+2950 51.2-2.1.4 (COS.sp.236 1987)	(4) SDSSJ131334.71 +295051.2	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			789 Secs (789 Secs)		
									[==>]		[1]
	Comments: Exposure with FP-POS=4, first orbit total count rate 344/sec										
	4	SDSSJ1313 34.71+2950 51.2-2.2.3 (COS.sp.236 1987)	(4) SDSSJ131334.71 +295051.2	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			1054 Secs (1054 Secs)		
									[==>]		[2]
	Comments: Exposure with FP-POS=3, second orbit total count rate 344/sec										
Exposures	5	SDSSJ1313 34.71+2950 51.2-2.2.4 (COS.sp.236 1987)	(4) SDSSJ131334.71 +295051.2	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			1054 Secs (1054 Secs)		
									[==>]		[2]
	Comments: Exposure with FP-POS=4, second orbit total count rate 344/sec										

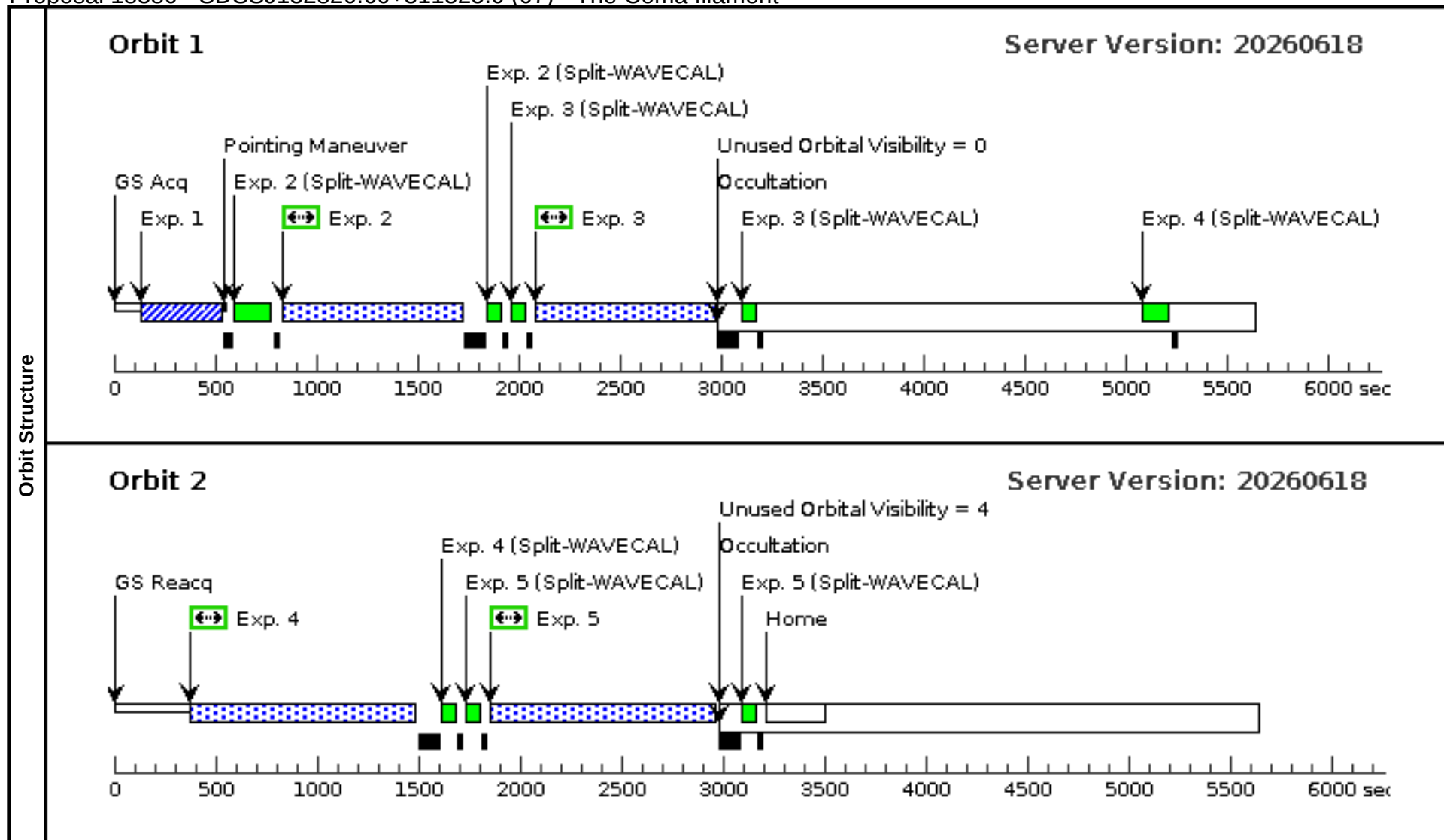


Proposal 18380 - SDSSJ132820.60+311525.0 (07) - The Coma filament

Visit	Proposal 18380, SDSSJ132820.60+311525.0 (07) Tue Aug 11 18:00:35 GMT 2026				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)				
Diagnostics	(SDSSJ132820.60+311525.0 (07)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s (SDSSJ132820.60+311525.0 (07)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s (SDSSJ132820.60+311525.0 (07)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(5)	SDSSJ132820.60+311525.0	RA: 13 28 20.6300 (202.0859583d) Dec: +31 15 25.34 (31.25704d) Equinox: J2000	Proper Motion RA: 0 Proper Motion Dec: 0	V=18.29+/-0.1 F=0.20E-14@1250; z=0.240
Fixed Targets	Comments: Category=GALAXY Description=[QSO] Extended=NO				
	Reference Frame: ICRS				

Proposal 18380 - SDSSJ132820.60+311525.0 (07) - The Coma filament

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSSJ1328 20.60+3115 25.0-ACQ (COS.ta.236 2018)	(5) SDSSJ132820.60 +311525.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				44 Secs (44 Secs)	
									[==>]	[1]
	Comments: Acquisition exposure total count rate 1122/sec SN=30									
	2	SDSSJ1328 20.60+3115 25.0-1.3 (COS.sp.236 1988)	(5) SDSSJ132820.60 +311525.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			827 Secs (827 Secs)	
									[==>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 344/sec									
	3	SDSSJ1328 20.60+3115 25.0-1.4 (COS.sp.236 1988)	(5) SDSSJ132820.60 +311525.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			827 Secs (827 Secs)	
									[==>]	[1]
	Comments: Exposure with FP-POS=4, first orbit total count rate 344/sec									
	4	SDSSJ1328 20.60+3115 25.0-2.3 (COS.sp.236 1988)	(5) SDSSJ132820.60 +311525.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			1054 Secs (1054 Secs)	
									[==>]	[2]
	Comments: Exposure with FP-POS=3, second orbit total count rate 344/sec									
	5	SDSSJ1328 20.60+3115 25.0-2.4 (COS.sp.236 1988)	(5) SDSSJ132820.60 +311525.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			1054 Secs (1054 Secs)	
									[==>]	[2]
	Comments: Exposure with FP-POS=4, second orbit total count rate 344/sec									

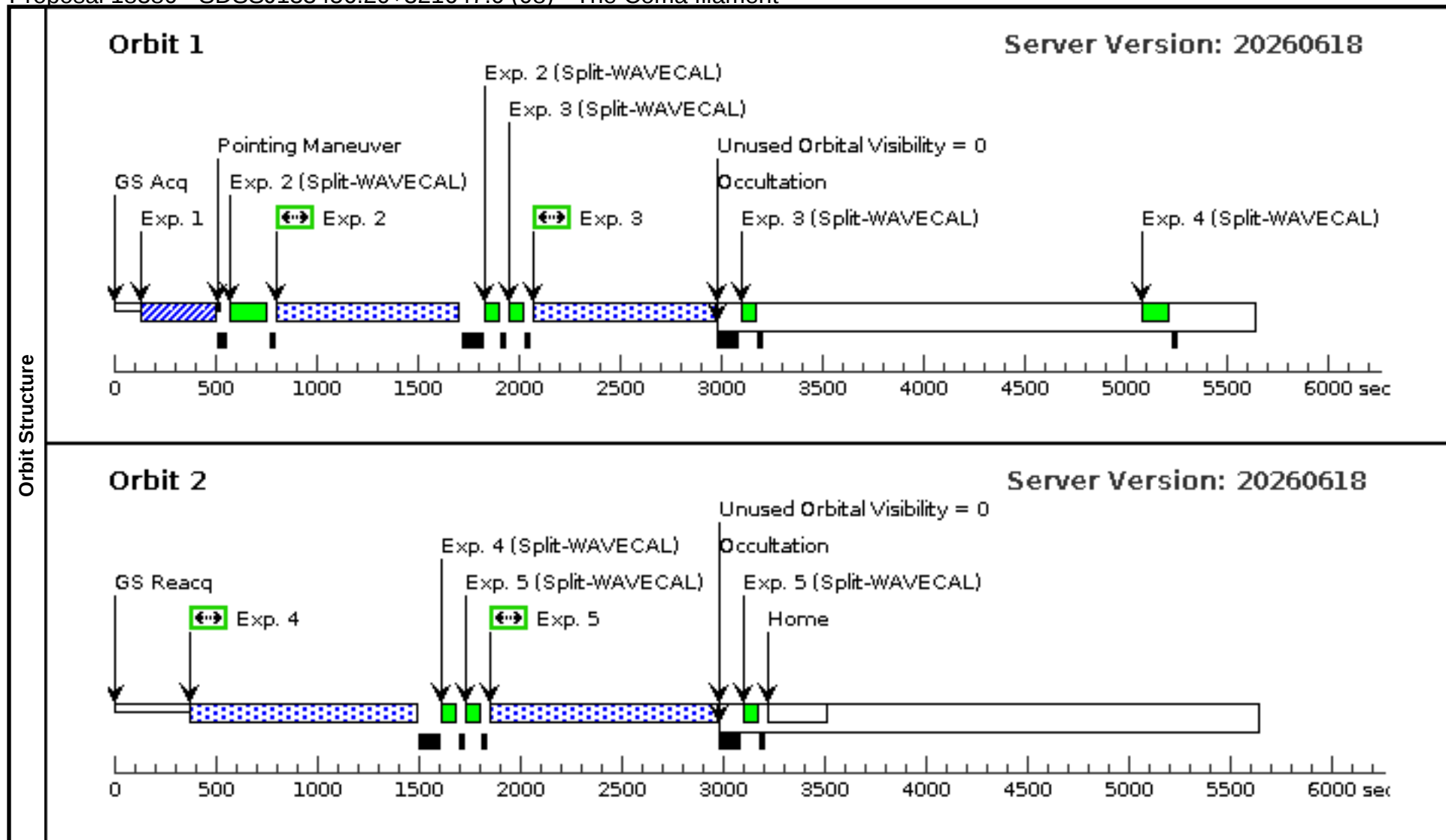


Proposal 18380 - SDSSJ133456.20+321647.0 (08) - The Coma filament

Visit	Proposal 18380, SDSSJ133456.20+321647.0 (08) Tue Aug 11 18:00:35 GMT 2026				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)				
Diagnostics	(SDSSJ133456.20+321647.0 (08)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s (SDSSJ133456.20+321647.0 (08)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s (SDSSJ133456.20+321647.0 (08)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(6)	SDSSJ133456.20+321647.0	RA: 13 34 56.2100 (203.7342083d) Dec: +32 16 47.49 (32.27986d) Equinox: J2000	Proper Motion RA: 0 Proper Motion Dec: 0	V=17.54+/-0.1 F=0.27E-14@1250; z=0.386
Fixed Targets	Comments: Category=GALAXY Description=[QSO] Extended=NO				
	Reference Frame: ICRS				

Proposal 18380 - SDSSJ133456.20+321647.0 (08) - The Coma filament

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSSJ1334 56.20+3216 47.0-ACQ (COS.ta.236 2019)	(6) SDSSJ133456.20 +321647.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				32 Secs (32 Secs)	
									[==>]	[1]
	Comments: Acquisition exposure total count rate 1132/sec SN=30									
	2	SDSSJ1334 56.20+3216 47.0-1.3 (COS.sp.236 1989)	(6) SDSSJ133456.20 +321647.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			839 Secs (839 Secs)	
									[==>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 344/sec									
Exposures	3	SDSSJ1334 56.20+3216 47.0-1.4 (COS.sp.236 1989)	(6) SDSSJ133456.20 +321647.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			839 Secs (839 Secs)	
									[==>]	[1]
	Comments: Exposure with FP-POS=4, first orbit total count rate 344/sec									
	4	SDSSJ1334 56.20+3216 47.0-2.3 (COS.sp.236 1989)	(6) SDSSJ133456.20 +321647.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			1056 Secs (1056 Secs)	
									[==>]	[2]
	Comments: Exposure with FP-POS=3, second orbit total count rate 344/sec									
Exposures	5	SDSSJ1334 56.20+3216 47.0-2.4 (COS.sp.236 1989)	(6) SDSSJ133456.20 +321647.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			1056 Secs (1056 Secs)	
									[==>]	[2]
	Comments: Exposure with FP-POS=4, second orbit total count rate 344/sec									

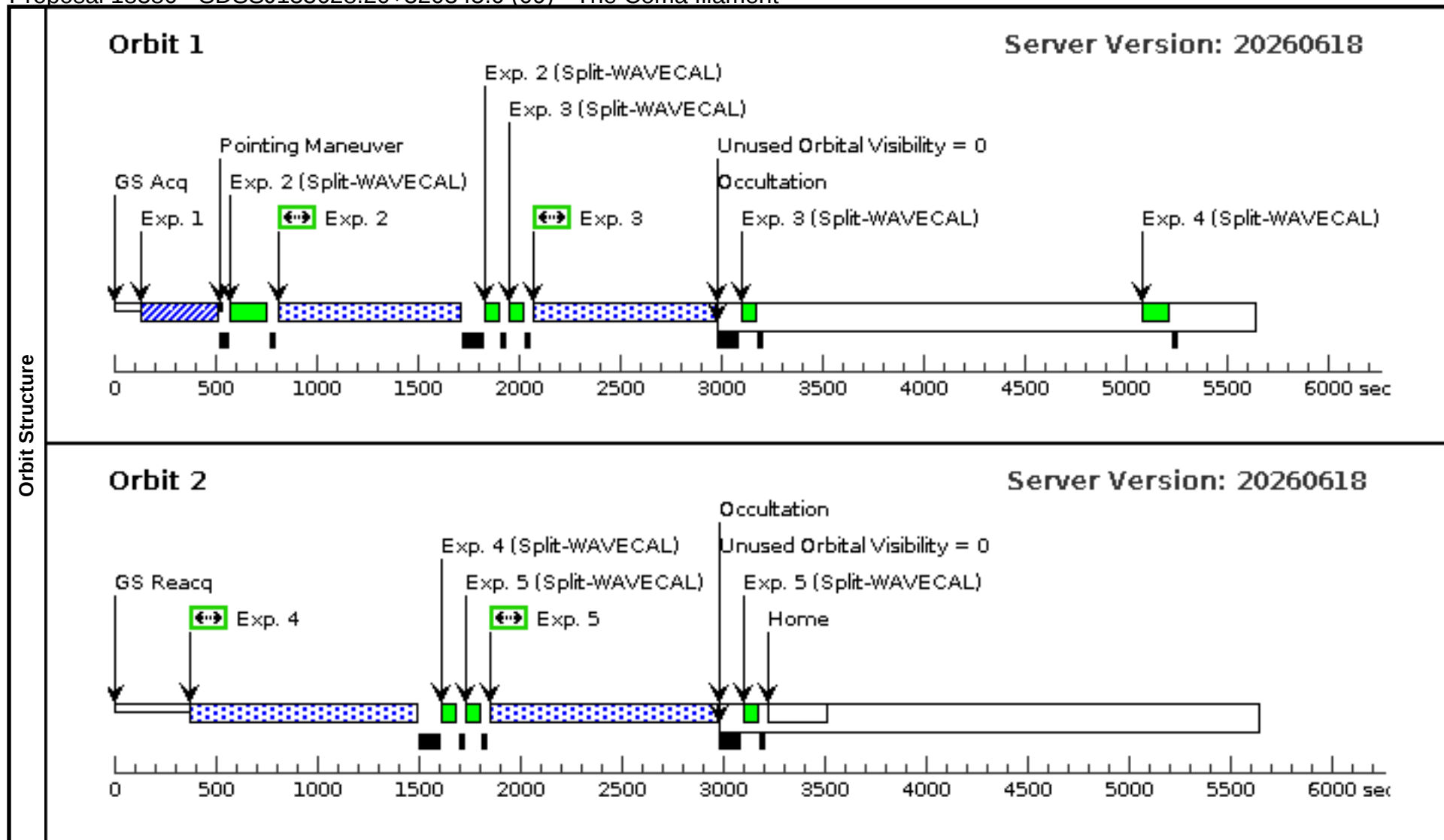


Proposal 18380 - SDSSJ133628.20+320345.0 (09) - The Coma filament

Visit	Proposal 18380, SDSSJ133628.20+320345.0 (09) Tue Aug 11 18:00:35 GMT 2026				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)				
Diagnostics	(SDSSJ133628.20+320345.0 (09)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s (SDSSJ133628.20+320345.0 (09)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s (SDSSJ133628.20+320345.0 (09)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(7)	SDSSJ133628.20+320345.0	RA: 13 36 28.1600 (204.1173333d) Dec: +32 03 44.02 (32.06223d) Equinox: J2000	Proper Motion RA: 0 Proper Motion Dec: 0	V=17.62+/-0.1 F=0.26E-14@1250; z=0.370
Fixed Targets	Comments: Category=GALAXY Description=[QSO] Extended=NO				
	Reference Frame: ICRS				

Proposal 18380 - SDSSJ133628.20+320345.0 (09) - The Coma filament

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSSJ133628.20+320345.0-ACQ (COS.ta.236 2020)	(7) SDSSJ133628.20 +320345.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				34 Secs (34 Secs) [==>]	[1]
	Comments: Acquisition exposure total count rate 1131/sec SN=30									
	2	SDSSJ133628.20+320345.0-1.3 (COS.sp.236 1990)	(7) SDSSJ133628.20 +320345.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			837 Secs (837 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 344/sec									
	3	SDSSJ133628.20+320345.0-1.4 (COS.sp.236 1990)	(7) SDSSJ133628.20 +320345.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			837 Secs (837 Secs) [==>]	[1]
Comments: Exposure with FP-POS=4, first orbit total count rate 344/sec										
	4	SDSSJ133628.20+320345.0-2.3 (COS.sp.236 1990)	(7) SDSSJ133628.20 +320345.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			1056 Secs (1056 Secs) [==>]	[2]
	Comments: Exposure with FP-POS=3, second orbit total count rate 344/sec									
	5	SDSSJ133628.20+320345.0-2.4 (COS.sp.236 1990)	(7) SDSSJ133628.20 +320345.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			1056 Secs (1056 Secs) [==>]	[2]
Comments: Exposure with FP-POS=4, second orbit total count rate 344/sec										



Proposal 18380 - SDSSJ134835.30+345753.0 (10) - The Coma filament

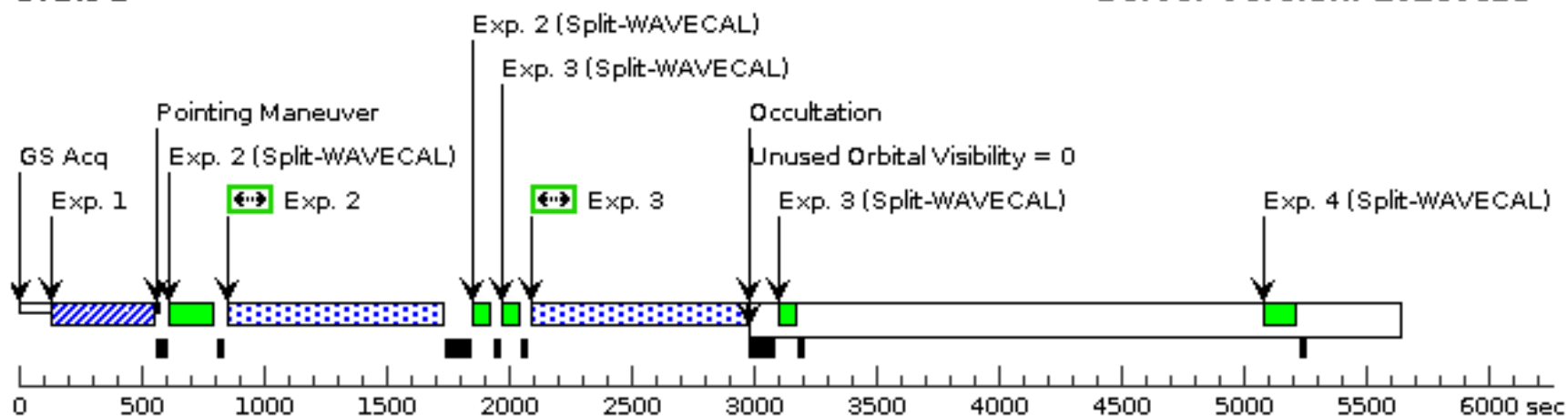
Visit	Proposal 18380, SDSSJ134835.30+345753.0 (10) Tue Aug 11 18:00:35 GMT 2026				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)				
Diagnostics	(SDSSJ134835.30+345753.0 (10)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s				
	(SDSSJ134835.30+345753.0 (10)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s				
	(SDSSJ134835.30+345753.0 (10)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s				
	(SDSSJ134835.30+345753.0 (10)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s				
	(SDSSJ134835.30+345753.0 (10)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(8)	SDSSJ134835.30+345753.0	RA: 13 48 35.2300 (207.1467917d) Dec: +34 57 53.69 (34.96491d) Equinox: J2000	Proper Motion RA: 0 Proper Motion Dec: 0	V=18.94+/-0.1 F=0.16E-14@1250; z=0.543
Comments: Category=GALAXY Description=[QSO] Extended=NO					
Reference Frame: ICRS					

Proposal 18380 - SDSSJ134835.30+345753.0 (10) - The Coma filament

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSSJ1348 35.30+3457 53.0-ACQ (COS.ta.236 2021)	(8) SDSSJ134835.30 +345753.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				55 Secs (55 Secs) [==>]	[1]
	Comments: Acquisition exposure total count rate 1116/sec SN=30									
	2	SDSSJ1348 35.30+3457 53.0-1.3 (COS.sp.236 1992)	(8) SDSSJ134835.30 +345753.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			816 Secs (816 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 344/sec									
	3	SDSSJ1348 35.30+3457 53.0-1.4 (COS.sp.236 1992)	(8) SDSSJ134835.30 +345753.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			816 Secs (816 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=4, first orbit total count rate 344/sec									
	4	SDSSJ1348 35.30+3457 53.0-2.3 (COS.sp.236 1992)	(8) SDSSJ134835.30 +345753.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			1056 Secs (1056 Secs) [==>]	[2]
	Comments: Exposure with FP-POS=3, second orbit total count rate 344/sec									
	5	SDSSJ1348 35.30+3457 53.0-2.4 (COS.sp.236 1992)	(8) SDSSJ134835.30 +345753.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			1056 Secs (1056 Secs) [==>]	[2]
	Comments: Exposure with FP-POS=4, second orbit total count rate 344/sec									
	6	SDSSJ1348 35.30+3457 53.0-3.3 (COS.sp.236 1992)	(8) SDSSJ134835.30 +345753.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			1056 Secs (1056 Secs) [==>]	[3]
	Comments: Exposure with FP-POS=3, third orbit total count rate 344/sec									
	7	SDSSJ1348 35.30+3457 53.0-4.4 (COS.sp.236 1992)	(8) SDSSJ134835.30 +345753.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			1056 Secs (1056 Secs) [==>]	[3]
	Comments: Exposure with FP-POS=4, third orbit total count rate 344/sec									

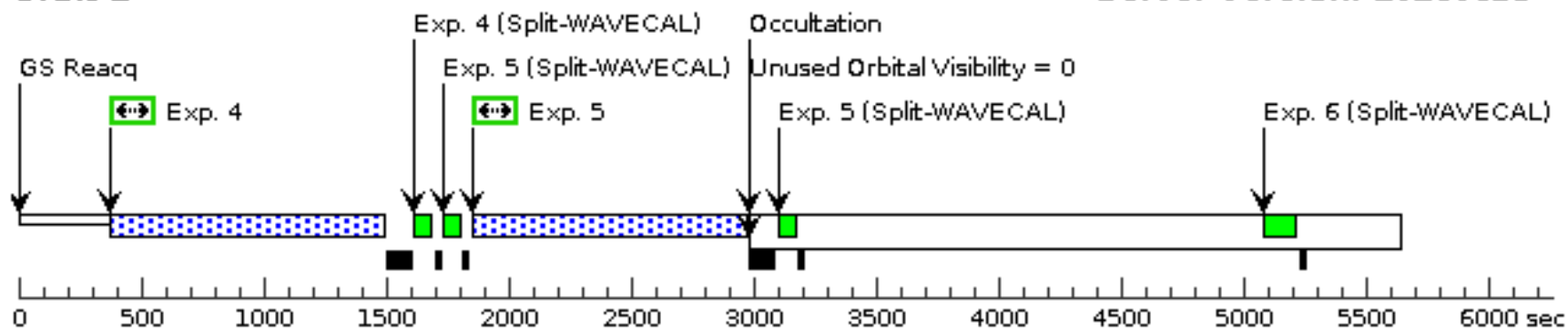
Orbit 1

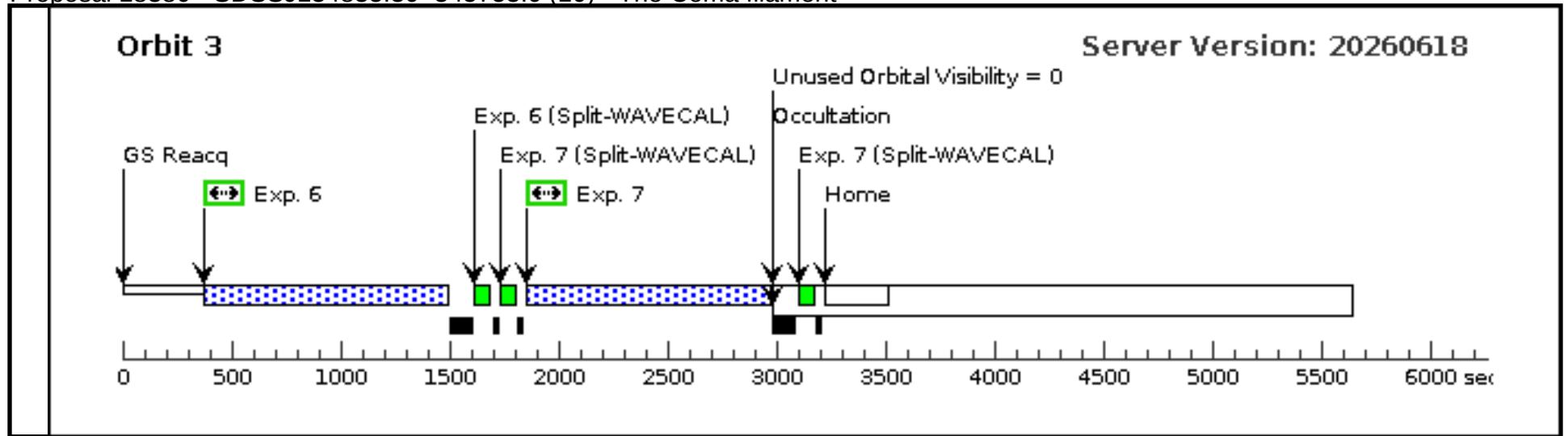
Server Version: 20260618



Orbit 2

Server Version: 20260618





Proposal 18380 - SDSSJ135015.40+362654.0 (11) - The Coma filament

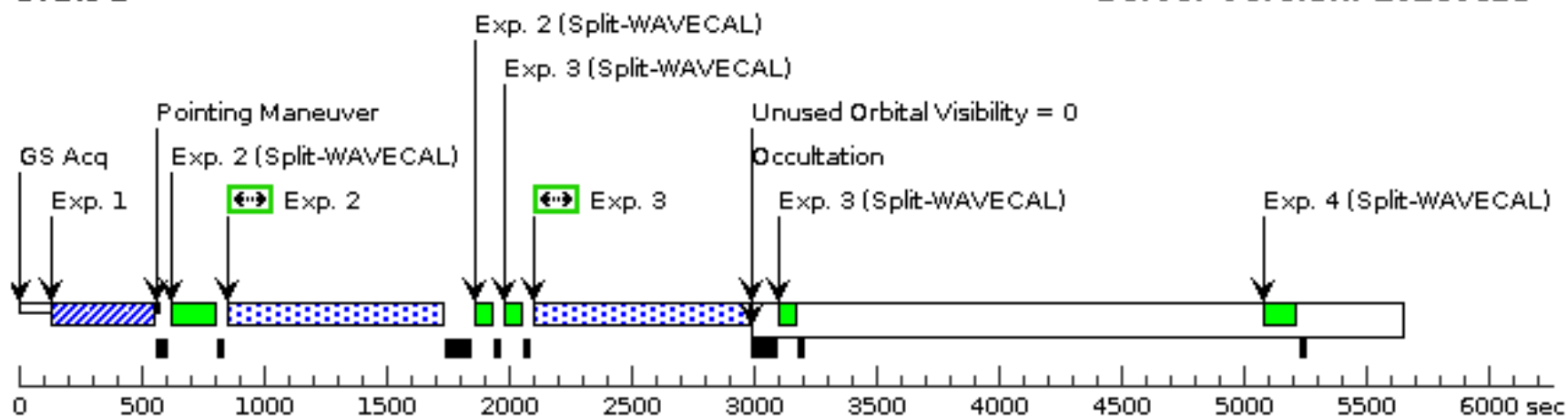
Visit	Proposal 18380, SDSSJ135015.40+362654.0 (11) Tue Aug 11 18:00:35 GMT 2026				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)				
Diagnostics	(SDSSJ135015.40+362654.0 (11)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s				
	(SDSSJ135015.40+362654.0 (11)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s				
	(SDSSJ135015.40+362654.0 (11)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s				
	(SDSSJ135015.40+362654.0 (11)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s				
	(SDSSJ135015.40+362654.0 (11)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(9)	SDSSJ135015.40+362654.0	RA: 13 50 15.4100 (207.5642083d) Dec: +36 26 54.21 (36.44839d) Equinox: J2000	Proper Motion RA: 0 Proper Motion Dec: 0	V=17.75+/-0.1 F=0.19E-14@1250; z=0.389
Miscellaneous Reference Frame: ICRS Comments: Category=GALAXY Description=[QSO] Extended=NO					

Proposal 18380 - SDSSJ135015.40+362654.0 (11) - The Coma filament

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSSJ1350 15.40+3626 54.0-ACQ (COS.ta.236 2022)	(9) SDSSJ135015.40 +362654.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				56 Secs (56 Secs) [==>]	[1]
	Comments: Acquisition exposure total count rate 1120/sec SN=56									
	2	SDSSJ1350 15.40+3626 54.0-1.3 (COS.sp.236 1994)	(9) SDSSJ135015.40 +362654.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			818 Secs (818 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 344/sec									
	3	SDSSJ1350 15.40+3626 54.0-1.4 (COS.sp.236 1994)	(9) SDSSJ135015.40 +362654.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			817 Secs (817 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=4, first orbit total count rate 344/sec									
	4	SDSSJ1350 15.40+3626 54.0-2.3 (COS.sp.236 1994)	(9) SDSSJ135015.40 +362654.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			1059 Secs (1059 Secs) [==>]	[2]
	Comments: Exposure with FP-POS=3, second orbit total count rate 344/sec									
	5	SDSSJ1350 15.40+3626 54.0-2.4 (COS.sp.236 1994)	(9) SDSSJ135015.40 +362654.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			1058 Secs (1058 Secs) [==>]	[2]
	Comments: Exposure with FP-POS=4, second orbit total count rate 344/sec									
	6	SDSSJ1350 15.40+3626 54.0-3.3 (COS.sp.236 1994)	(9) SDSSJ135015.40 +362654.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			1059 Secs (1059 Secs) [==>]	[3]
	Comments: Exposure with FP-POS=3, third orbit total count rate 344/sec									
	7	SDSSJ1350 15.40+3626 54.0-3.4 (COS.sp.236 1994)	(9) SDSSJ135015.40 +362654.0	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			1058 Secs (1058 Secs) [==>]	[3]
	Comments: Exposure with FP-POS=4, third orbit total count rate 344/sec									

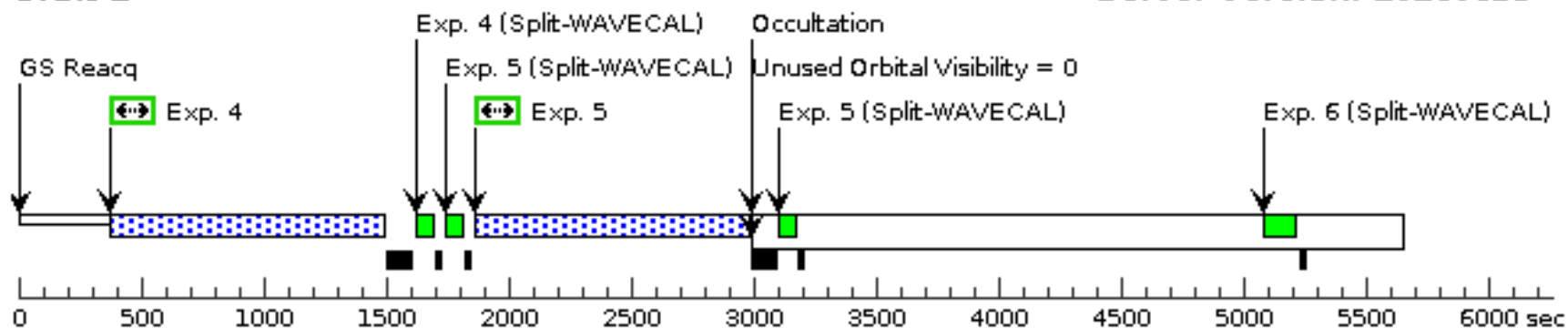
Orbit 1

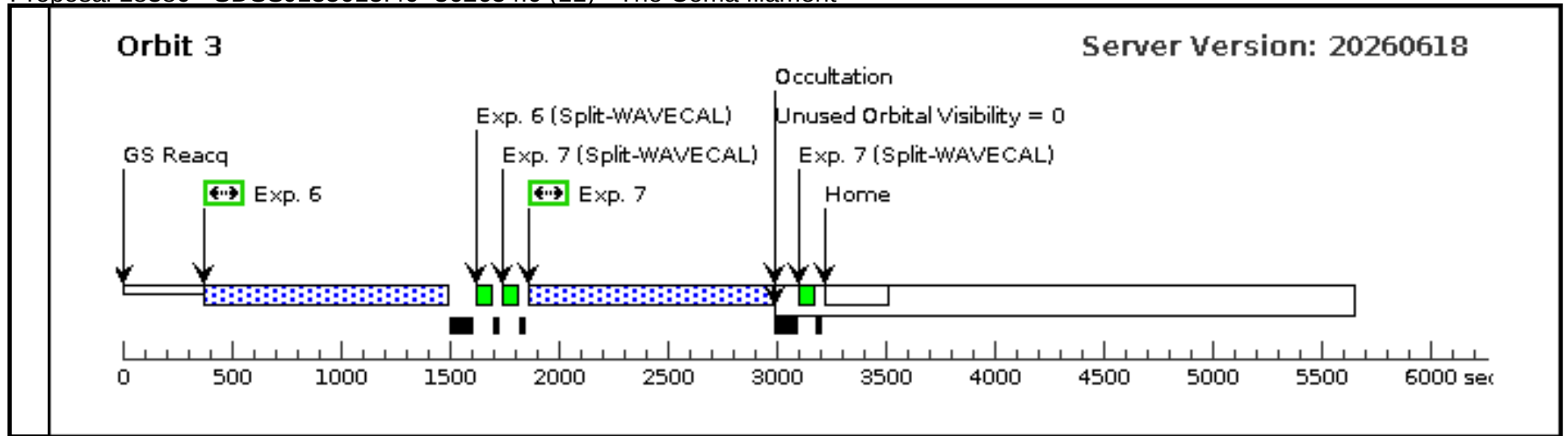
Server Version: 20260618



Orbit 2

Server Version: 20260618





Proposal 18380 - US245 (12) - The Coma filament

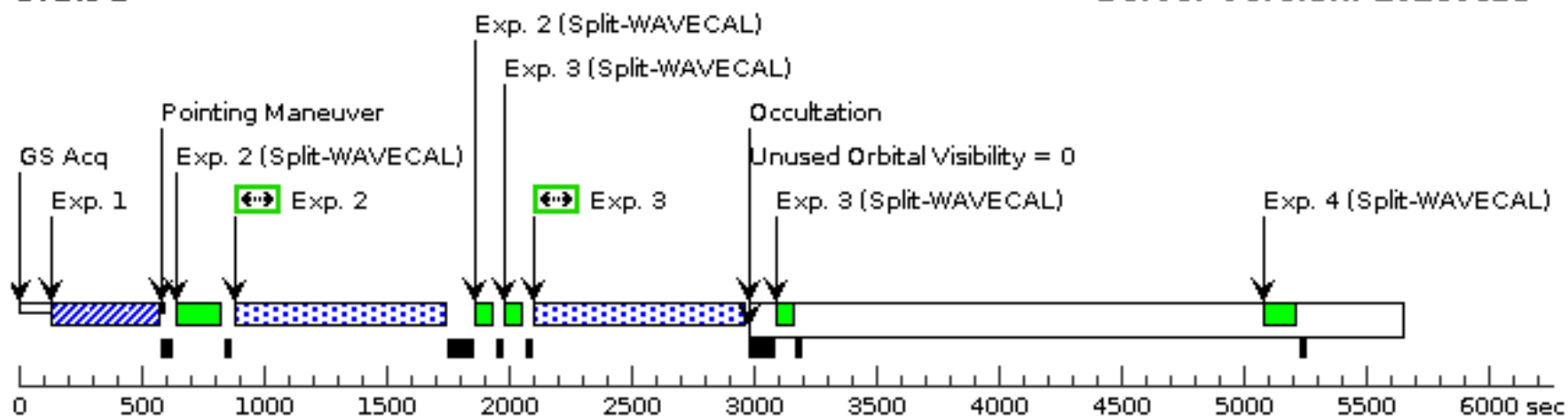
Visit	Proposal 18380, US245 (12) Tue Aug 11 18:00:35 GMT 2026				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)				
Diagnostics	(US245 (12)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s				
	(US245 (12)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s				
	(US245 (12)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s				
	(US245 (12)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s				
	(US245 (12)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(10)	US245	RA: 13 05 31.5400 (196.3814167d)	Proper Motion RA: 0	V=18.49+/-0.1
			Dec: +28 39 0.99 (28.65027d)	Proper Motion Dec: 0	F=0.13E-14@1250; z=0.185
			Equinox: J2000		
	Comments: Category=GALAXY Description=[QSO] Extended=NO				
	Reference Frame: ICRS				

Proposal 18380 - US245 (12) - The Coma filament

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	US245-AC Q (COS.ta.236 2023)	(10) US245	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				68 Secs (68 Secs) [==>]	[1]
	Comments: Acquisition exposure total count rate 1111/sec SN=30									
	2	US245-1.3 (COS.sp.236 1995)	(10) US245	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			801 Secs (801 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 344/sec									
	3	US245-1.4 (COS.sp.236 1995)	(10) US245	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			801 Secs (801 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=4, first orbit total count rate 344/sec									
	4	US245-2.3 (COS.sp.236 1995)	(10) US245	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			1054 Secs (1054 Secs) [==>]	[2]
	Comments: Exposure with FP-POS=3, second orbit total count rate 344/sec									
	5	US245-2.4 (COS.sp.236 1995)	(10) US245	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			1054 Secs (1054 Secs) [==>]	[2]
	Comments: Exposure with FP-POS=4, second orbit total count rate 344/sec									
	6	US245-3.3 (COS.sp.236 1995)	(10) US245	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			1054 Secs (1054 Secs) [==>]	[3]
	Comments: Exposure with FP-POS=3, third orbit total count rate 344/sec									
	7	US245-3.4 (COS.sp.236 1995)	(10) US245	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			1054 Secs (1054 Secs) [==>]	[3]
	Comments: Exposure with FP-POS=4, rhird orbit total count rate 344/sec									

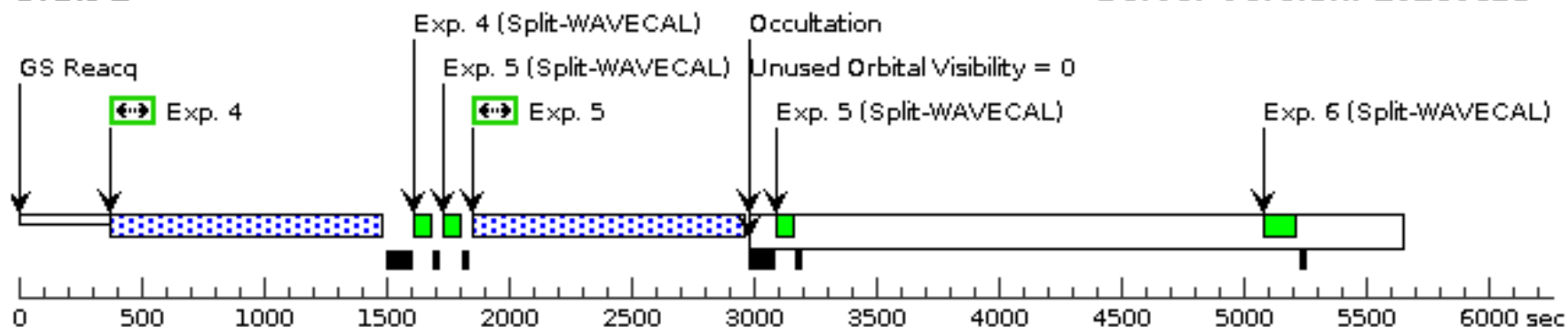
Orbit 1

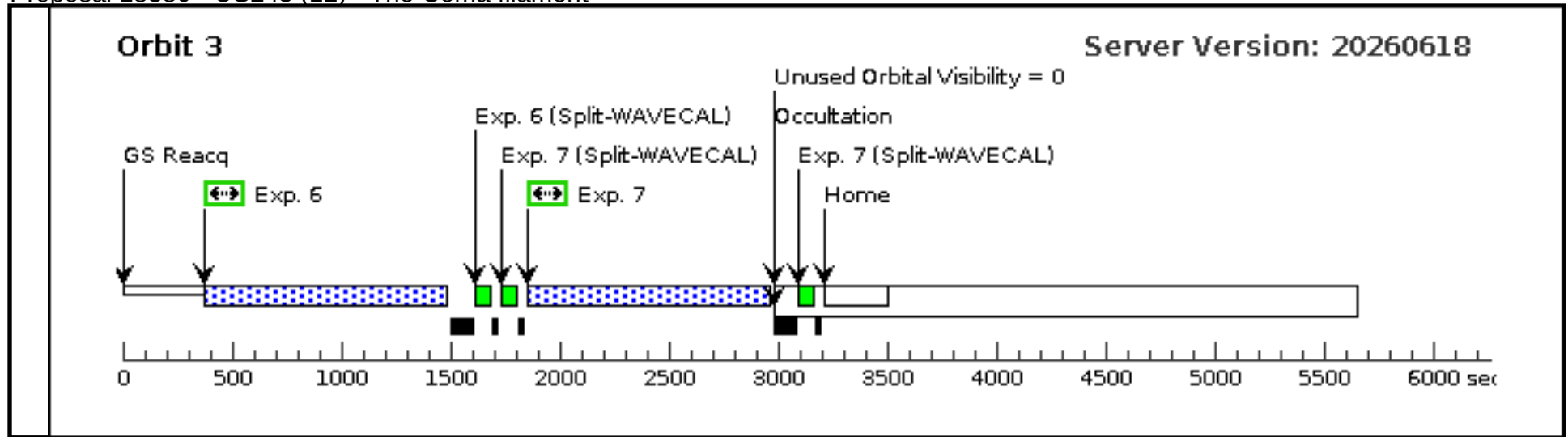
Server Version: 20260618



Orbit 2

Server Version: 20260618





Proposal 18380 - US415 (13) - The Coma filament

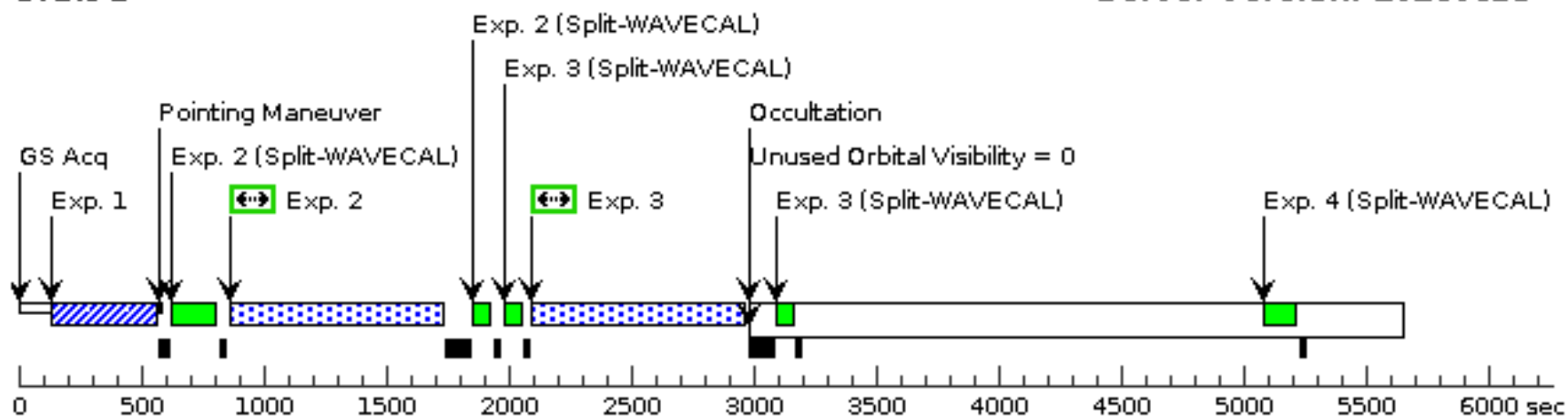
Visit	Proposal 18380, US415 (13) Tue Aug 11 18:00:35 GMT 2026				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)				
Diagnostics	(US415 (13)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s				
	(US415 (13)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s				
	(US415 (13)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s				
	(US415 (13)) Warning (Orbit Planner): COS ACCUM EXCEEDS 900s				
	(US415 (13)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(11)	US415	RA: 13 12 22.1000 (198.0920833d)	Proper Motion RA: 0	V=18.40+/-0.1
			Dec: +29 37 47.75 (29.62993d)	Proper Motion Dec: 0	F=0.15E-14@1250; z=0.247
			Equinox: J2000		
	Comments: Category=GALAXY Description=[QSO] Extended=NO				
	Reference Frame: ICRS				

Proposal 18380 - US415 (13) - The Coma filament

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	US415-AC Q (COS.ta.236 2025)	(11) US415	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				59 Secs (59 Secs) [==>]	[1]
	Comments: Acquisition exposure total count rate 1115/sec SN=30									
	2	US415-1.3 (COS.sp.236 1996)	(11) US415	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			810 Secs (810 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 344/sec									
	3	US415-1.4 (COS.sp.236 1996)	(11) US415	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			810 Secs (810 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=4, first orbit total count rate 344/sec									
	4	US415-2.3 (COS.sp.236 1996)	(11) US415	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			1054 Secs (1054 Secs) [==>]	[2]
	Comments: Exposure with FP-POS=3, second orbit total count rate 344/sec									
	5	US415-2.4 (COS.sp.236 1996)	(11) US415	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			1054 Secs (1054 Secs) [==>]	[2]
	Comments: Exposure with FP-POS=4, second orbit total count rate 344/sec									
	6	US415-3.3 (COS.sp.236 1996)	(11) US415	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=3; LIFETIME-POS=L P7			1054 Secs (1054 Secs) [==>]	[3]
	Comments: Exposure with FP-POS=3, third orbit total count rate 344/sec									
	7	US415-3.4 (COS.sp.236 1996)	(11) US415	COS/FUV, ACCUM, PSA	G130M 1291 A	FP-POS=4; LIFETIME-POS=L P7			1054 Secs (1054 Secs) [==>]	[3]
	Comments: Exposure with FP-POS=4, third orbit total count rate 344/sec									

Orbit 1

Server Version: 20260618



Orbit 2

Server Version: 20260618

