



18429 - The Intra-Group Medium of Local Group Analogues

Cycle: 34, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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Prof. Buell T. Jannuzi (CoI)	University of Arizona
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Prof. Joseph Neil Burchett (CoI)	New Mexico State University
Prof. Romeel Dave (CoI) (ESA Member)	University of Edinburgh, Institute for Astronomy

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	(3) SDSSJ08264+0855	COS/FUV COS/NUV	4	17-Aug-2026 20:00:16.0	yes
02	(3) SDSSJ08264+0855	COS/FUV COS/NUV	3	17-Aug-2026 20:00:18.0	yes
03	(5) SDSSJ13227-0225	COS/FUV COS/NUV	4	17-Aug-2026 20:00:19.0	yes
04	(5) SDSSJ13227-0225	COS/FUV COS/NUV	4	17-Aug-2026 20:00:20.0	yes
05	(1) RXSJ08430+0302	COS/FUV COS/NUV	3	17-Aug-2026 20:00:21.0	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>
06	(1) RXSJ08430+0302	COS/FUV COS/NUV	3	17-Aug-2026 20:00:22.0	yes
07	(1) RXSJ08430+0302	COS/FUV COS/NUV	3	17-Aug-2026 20:00:23.0	yes
08	(2) RXSJ08547+4019	COS/FUV COS/NUV	3	17-Aug-2026 20:00:23.0	yes
09	(2) RXSJ08547+4019	COS/FUV COS/NUV	3	17-Aug-2026 20:00:24.0	yes
10	(4) RBS1452	COS/FUV COS/NUV	3	17-Aug-2026 20:00:25.0	yes
11	(4) RBS1452	COS/FUV COS/NUV	3	17-Aug-2026 20:00:26.0	yes
12	(6) SDSSJ14548+1114	COS/FUV COS/NUV	3	17-Aug-2026 20:00:27.0	yes
13	(6) SDSSJ14548+1114	COS/FUV COS/NUV	3	17-Aug-2026 20:00:28.0	yes

42 Total Orbits Used

ABSTRACT

We propose to make the first detections of the photo-ionized and collisionally-ionized phases of the Intra-Group Medium (IGrM) of small, spiral-rich galaxy groups like our Local Group. Unlike massive X-ray detected groups and clusters, the low-mass IGrM is predicted to be dominated by cool/warm gas uniquely detectable using HST/COS. While dozens of COS programs have characterized the Circum-Galactic Medium (CGM) of individual galaxies, the larger context for current-day star formation, the small, spiral-rich group IGrM, has not been detected nor had its baryons inventoried; nor has the IGrM of our Local Group ($M_{\text{halo}} = 10^{12.7} M_{\text{Sun}}$) been detected unambiguously due to distance uncertainties. By avoiding sight lines passing through the CGM of individual group galaxies, these high-S/N FUV spectra will probe the cool (Ly-alpha, Si II & Si III) and warm (Ly-alpha & O VI) IGrM in Local Group analogues with $10^{12.4} < M_{\text{halo}} < 10^{13.8} M_{\text{sun}}$ for the first time. From the COS spectra we will estimate: (1) the covering fraction and extent of H I Ly-alpha and metal-bearing absorbers; (2) the baryon content of the IGrM (simulations suggest 10-30% of baryonic closure); (3) the fraction of absorbers that are escaping, providing evidence that the IGrM is either a nearly isothermal

"closed box" or is "feedback flattened"; and (4) the gas retention mass above which all baryons are retained. In comparison with previous COS studies of X-ray emitting groups, this mass limit will be compared to the halo mass above which passive galaxies and an X-ray emitting IGrM occur. We request 42 orbits to observe the best 6 targets with $S/N \sim 12$ at the O VI doublet.

OBSERVING DESCRIPTION

Our low-mass, group-selected sample contains 6 AGN sight lines probing low-mass galaxy groups at $z=0.075-0.15$. This range was selected such that the O VI 1032, 1038 Å doublet redshifts into the COS/G130M spectral range at good sensitivity, while Ly-alpha 1216 Å, Si II 1190, 1193 Å (1260 Å for some groups) and Si III 1206 Å are also present. We further required that both Ly-alpha and O VI 1032 Å fall in spectral regions free of strong Galactic absorption and gain sag. Two slightly-higher-redshift groups (55394 & 36750) need to be observed with the G130M/1291 setting to cover the wavelengths of Ly-alpha and O VI simultaneously. A range of impact parameters and group halo masses is well-represented. Using the SDSS spectroscopic redshift information, we verified that the nearest individual bright group galaxy to each sight line is >1.7 virial radii away (typically >500 kpc in projection); almost all are >2 virial radii away, well outside the region of bound CGM gas. This criteria makes sure that any detected absorption is associated with the intragroup medium and not the CGM of an individual galaxy (see e.g., Prochaska+11, Stocke+13, Keeney+17). We estimate the far-UV flux of each AGN from GALEX FUV-band photometry or previous low-resolution FUV spectra, where available.

The COS ETC was used to estimate the exposure time necessary for our required $S/N \sim 12$ per resolution element spectra at the wavelength of the redshifted O VI doublet and the results rounded to the nearest orbit.

The only previous HST/COS program which attempted to observe low-mass group gas is GO-13314 (McCabe+21). However, our detailed scrutiny of each McCabe+21 sight line (including new galaxy spectroscopy by us) finds that 15 of the 18 are too close to a bright group galaxy to provide unambiguous IGrM probes. The close galaxy proximity requires that any UV absorption detected must be ascribed to CGM, not intragroup gas. The COS spectra obtained by McCabe+21 have lower S/N (< 10 compared to ~ 12 for this proposed study) so that fewer O VI lines (8/18) are detected. GO-13314 aside, only two Berlind groups were probed by previous high- S/N spectra. For PG 0953+415 a COS ($S/N \sim 40$) spectrum plus excellent FUSE data detect a possible broad Ly-alpha absorber and two probable O VI absorbers in a low-mass group at $z = 0.042$. A low-mass Berlind group at $z = 0.19$ in the PG 1121+420 sight line ($S/N = 23$) has detections in Ly-alpha, O VI, and several other ions at $+231$ km/s, likely bound to that group. In summary, we add 5 archival spectra (3 from GO-13314 and 2 from GTO data) to our low-mass group IGrM sample.

Ground-based multi-object spectroscopy (MOS) will be obtained using MMT/Hectospec to provide group galaxy redshifts, galaxy type classifications and star-formation rates complete to $\sim 0.2 L^*$ over a 40-arcmin field of view for all 11 of these groups. Ground-based MOS is already

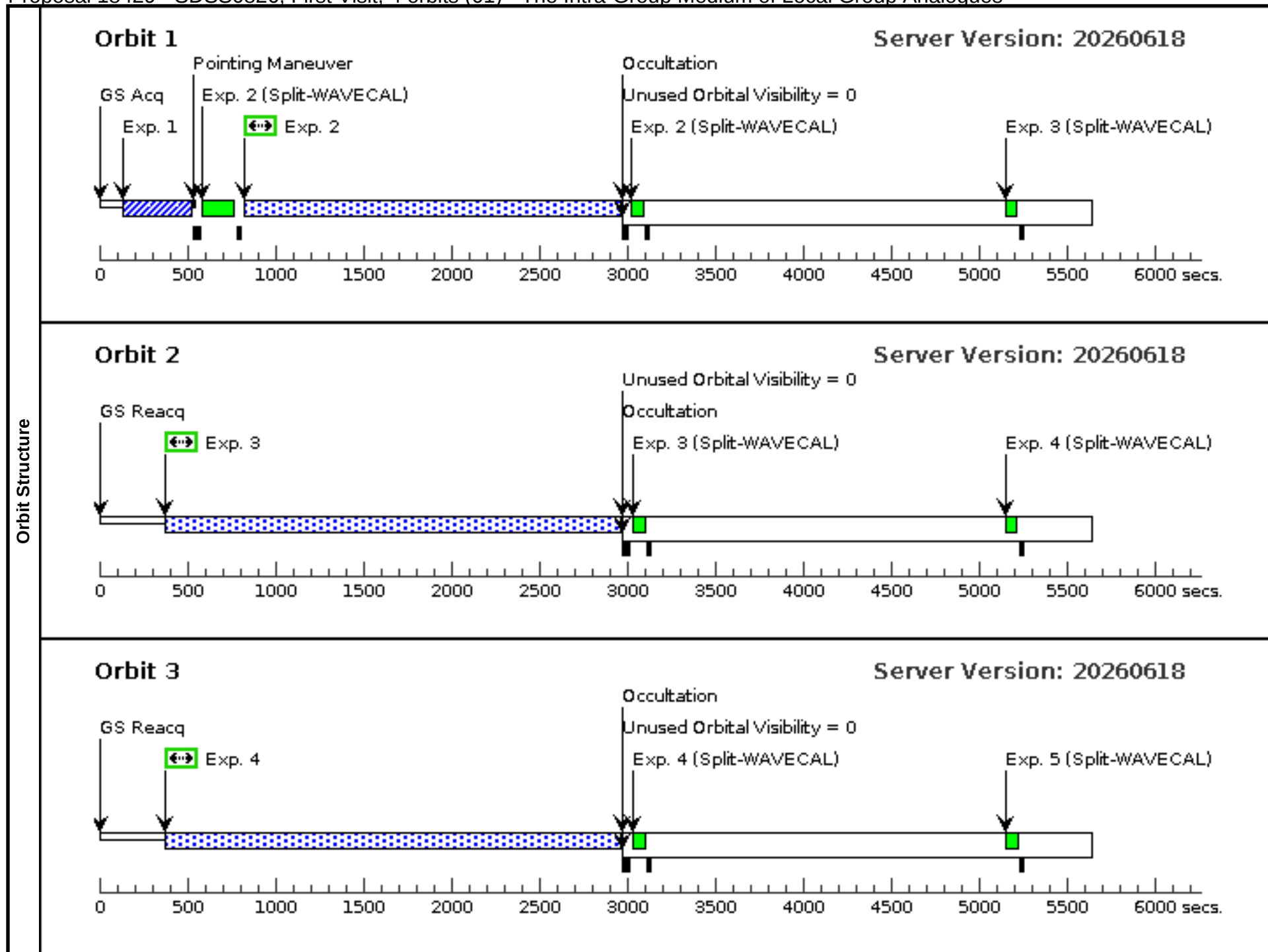
available for the two COS-GTO archival sightlines. These deep MOS observations will refine the detailed characteristics of each group (e.g., stellar and halo masses, velocity dispersion, group centroid position) for better comparison with the UV absorption-line data. These deeper data are essential for the best results from this project since basic group parameters from Berlind+06 are accurate (as shown by Stocke+19) but not precise in cases with few (< 5) SDSS galaxies.

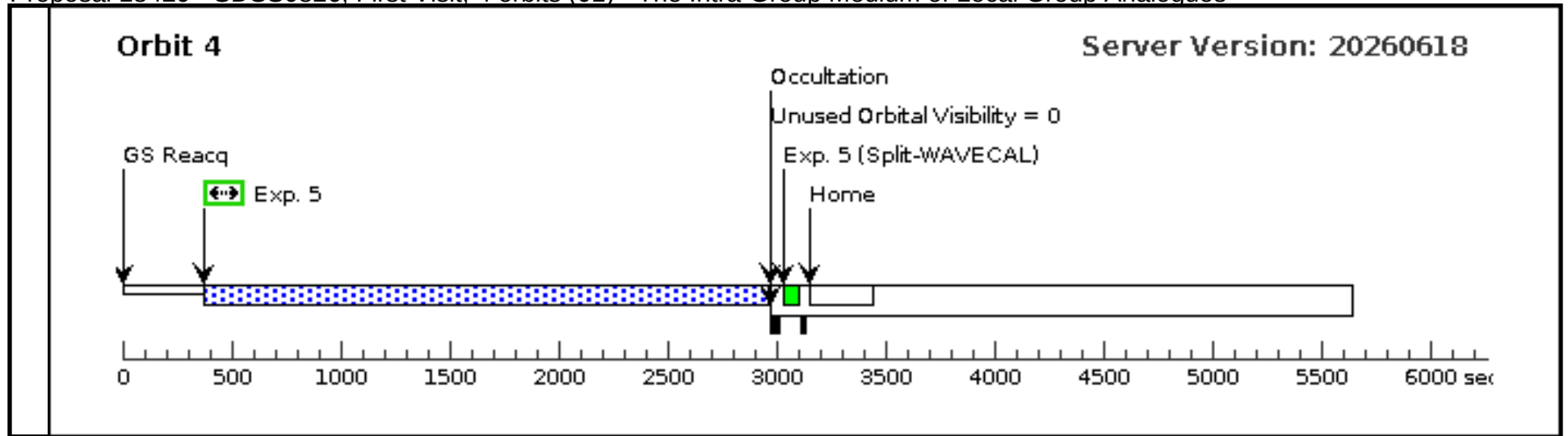
Proposal 18429 - SDSS0826, First Visit, 4 orbits (01) - The Intra-Group Medium of Local Group Analogues

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	Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(3)	SDSSJ08264+0855	RA: 08 26 28.2030 (126.6175125d) Dec: +08 55 35.39 (8.92650d) Equinox: J2000	Proper Motion RA: -0.16 mas/yr Proper Motion Dec: -0.07099999947968172 mas/yr Epoch of Position: 2000	V=17.38 z=0.2542, F(FUV)=4e-15
Miscellaneous Reference Frame: ICRS					
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=GALAXY Description=[QSO] Extended=NO					

Proposal 18429 - SDSSJ0826, First Visit, 4 orbits (01) - The Intra-Group Medium of Local Group Analogues

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Target Acq (COS.ta.236 4891)	(3) SDSSJ08264+08 55	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				40 Secs (40 Secs)	
									[==>]	[1]
		Comments: NUV acquisition exposure COS ETC result for S/N=20; F=2E-15 Count rate 14/sec with MIRRORB. Nominal exposure time for S/N=20 is 28.2 sec Round up to 40 sec to be conservative								
	2	Orbit 1, FP- POS 3 (COS.sp.236 6184)	(3) SDSSJ08264+08 55	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 000; LIFETIME-POS=L P7			2087 Secs (2087 Secs)	
									[==>]	[1]
		Comments: Exposure with FP-POS=3, first orbit total count rate 140/sec S/N(orbit)~4.6, S/N(visit)~9.9, S/N(total)~13.0								
Exposures	3	Orbit 2, FP- POS 3 (COS.sp.236 6184)	(3) SDSSJ08264+08 55	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 000; LIFETIME-POS=L P7			2537 Secs (2537 Secs)	
									[==>]	[2]
		Comments: Exposure with FP-POS=3, second orbit total count rate 140/sec S/N(orbit)~5.0, S/N(visit)~9.9, S/N(total)~13.0								
	4	Orbit 3, FP- POS 3 (COS.sp.236 6184)	(3) SDSSJ08264+08 55	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 000; LIFETIME-POS=L P7			2537 Secs (2537 Secs)	
									[==>]	[3]
		Comments: Exposure with FP-POS=3, third orbit total count rate 140/sec S/N(orbit)~5.0, S/N(visit)~9.9, S/N(total)~13.0								
Exposures	5	Orbit 4, FP- POS 4 (COS.sp.236 6184)	(3) SDSSJ08264+08 55	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=10 000; LIFETIME-POS=L P7			2537 Secs (2537 Secs)	
									[==>]	[4]
		Comments: Exposure with FP-POS=4, fourth orbit total count rate 140/sec S/N(orbit)~5.0, S/N(visit)~9.9, S/N(total)~13.0								



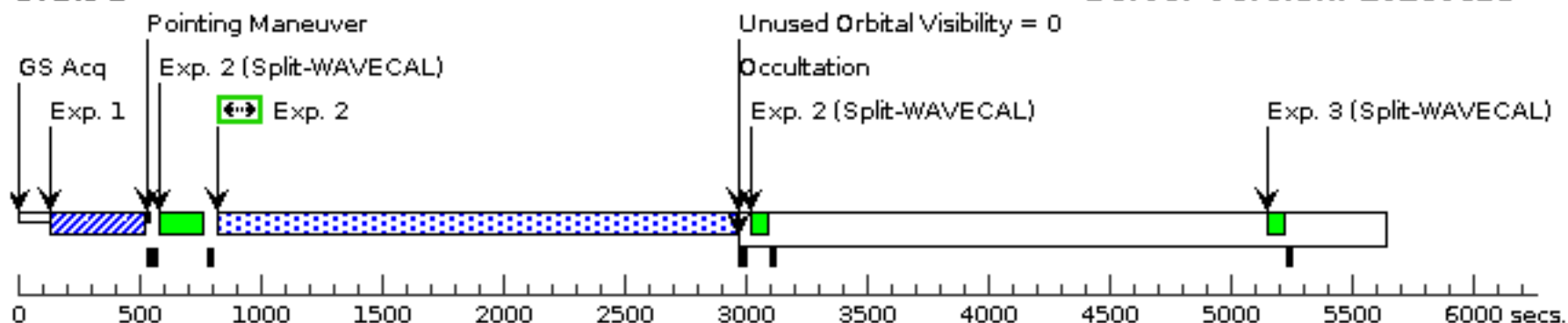


Proposal 18429 - SDSS0826, Second Visit, 3 orbits (02) - The Intra-Group Medium of Local Group Analogues

Visit	Proposal 18429, SDSS0826, Second Visit, 3 orbits (02)									Tue Aug 18 00:00:29 GMT 2026
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(3)	SDSSJ08264+0855	RA: 08 26 28.2030 (126.6175125d) Dec: +08 55 35.39 (8.92650d) Equinox: J2000	Proper Motion RA: -0.16 mas/yr Proper Motion Dec: -0.07099999947968172 mas/yr Epoch of Position: 2000		V=17.38 z=0.2542, F(FUV)=4e-15		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.									
	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	Target Acq (COS.ta.236 4891)	(3) SDSSJ08264+0855	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				40 Secs (40 Secs)	
									[>=>]	[1]
	Comments: NUV acquisition exposure COS ETC result for S/N=20; F=2E-15 Count rate 14/sec with MIRRORB. Nominal exposure time for S/N=20 is 28.2 sec Round up to 40 sec to be conservative									
	2	Orbit 1, FP-POS 3 (COS.sp.236 6184)	(3) SDSSJ08264+0855	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10000; LIFETIME-POS=L P7			2087 Secs (2087 Secs)	
									[>=>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 140/sec S/N(orbit)~4.6, S/N(visit)~8.5, S/N(total)~13.0									
	3	Orbit 2, FP-POS 4 (COS.sp.236 6184)	(3) SDSSJ08264+0855	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=10000; LIFETIME-POS=L P7			2537 Secs (2537 Secs)	
									[>=>]	[2]
	Comments: Exposure with FP-POS=4, second orbit total count rate 140/sec S/N(orbit)~5.0, S/N(visit)~8.5, S/N(total)~13.0									
4	Orbit 3, FP-POS 4 (COS.sp.236 6184)	(3) SDSSJ08264+0855	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=10000; LIFETIME-POS=L P7			2537 Secs (2537 Secs)		
								[>=>]	[3]	
Comments: Exposure with FP-POS=4, third orbit total count rate 140/sec S/N(orbit)~5.0, S/N(visit)~8.5, S/N(total)~13.0										

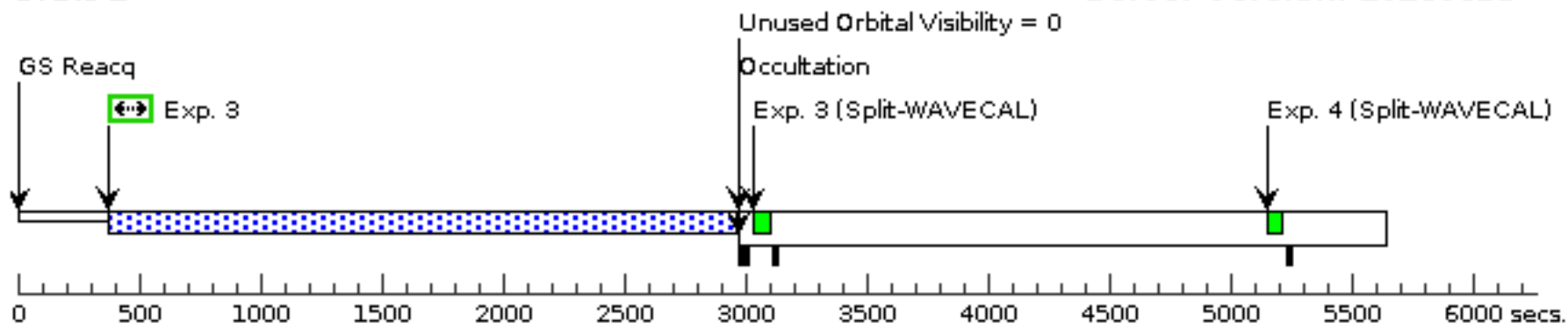
Orbit 1

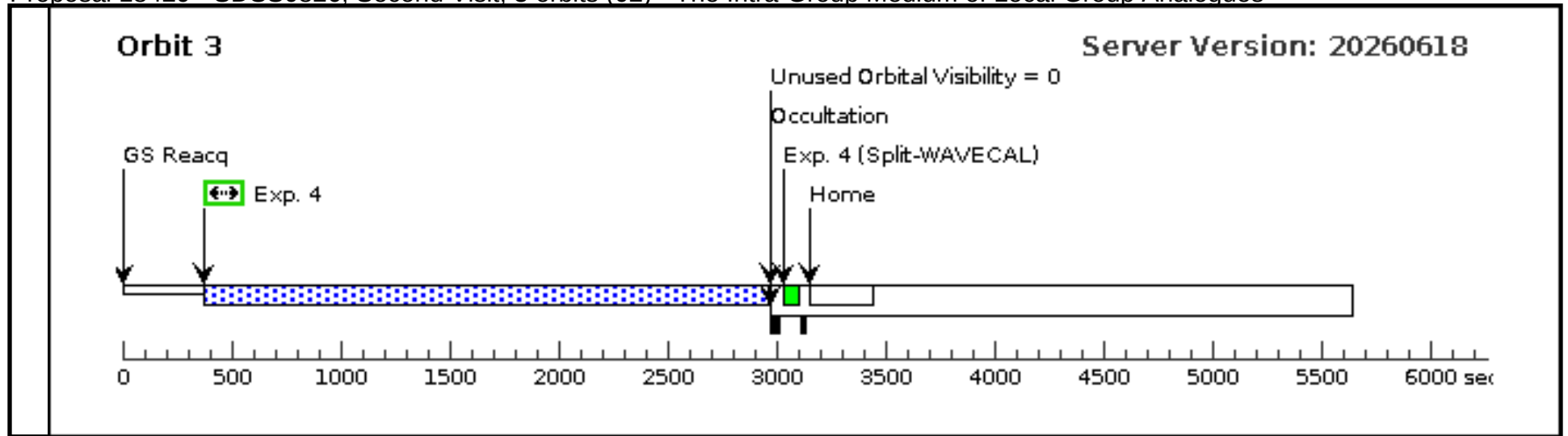
Server Version: 20260618



Orbit 2

Server Version: 20260618





Proposal 18429 - SDSS1322, First Visit, 4 orbits (03) - The Intra-Group Medium of Local Group Analogues

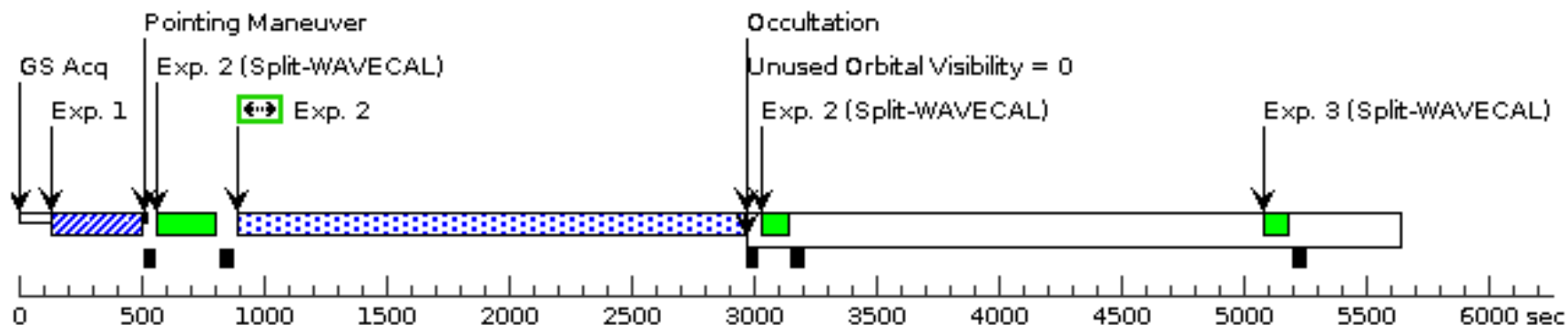
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	Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(5)	SDSSJ13227-0225	RA: 13 22 42.4772 (200.6769883d) Dec: -02 25 22.05 (-2.42279d) Equinox: J2000	Proper Motion RA: 0.053 mas/yr Proper Motion Dec: -0.0869998984853737 mas/yr Parallax: 2.644000000000003E-4" Epoch of Position: 2000	V=17.4 z=0.12, F(FUV)=3e-15
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=GALAXY Description=[QSO] Extended=NO					

Proposal 18429 - SDSS1322, First Visit, 4 orbits (03) - The Intra-Group Medium of Local Group Analogues

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Target Acq (COS.ta.236 4987)	(5) SDSSJ13227-022 5	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				30 Secs (30 Secs) [==>]	
		Comments: NUV acquisition exposure COS ETC result for S/N=20; F=3E-15 Count rate 19/sec with MIRRORB. Nominal exposure time for S/N=20 is 20.8 sec Round up to 30 sec to be conservative								[1]
	2	Orbit 1, FP- POS 3 (COS.sp.236 6213)	(5) SDSSJ13227-022 5	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=80 00; LIFETIME-POS=L P7			2023 Secs (2023 Secs) [==>]	
		Comments: Exposure with FP-POS=3, first orbit total count rate 180/sec S/N(orbit)~4.1, S/N(visit)~9.0, S/N(total)~12.7								[1]
	3	Orbit 2, FP- POS 3 (COS.sp.236 6213)	(5) SDSSJ13227-022 5	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=80 00; LIFETIME-POS=L P7			2539 Secs (2539 Secs) [==>]	
		Comments: Exposure with FP-POS=3, second orbit total count rate 180/sec S/N(orbit)~4.6, S/N(visit)~9.0, S/N(total)~12.7								[2]
	4	Orbit 3, FP- POS 4 (COS.sp.236 6213)	(5) SDSSJ13227-022 5	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=80 00; LIFETIME-POS=L P7			2539 Secs (2539 Secs) [==>]	
		Comments: Exposure with FP-POS=4, third orbit total count rate 180/sec S/N(orbit)~4.6, S/N(visit)~9.0, S/N(total)~12.7								[3]
	5	Orbit 4, FP- POS 4 (COS.sp.236 6213)	(5) SDSSJ13227-022 5	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=80 00; LIFETIME-POS=L P7			2539 Secs (2539 Secs) [==>]	
		Comments: Exposure with FP-POS=4, fourth orbit total count rate 180/sec S/N(orbit)~4.6, S/N(visit)~9.0, S/N(total)~12.7								[4]

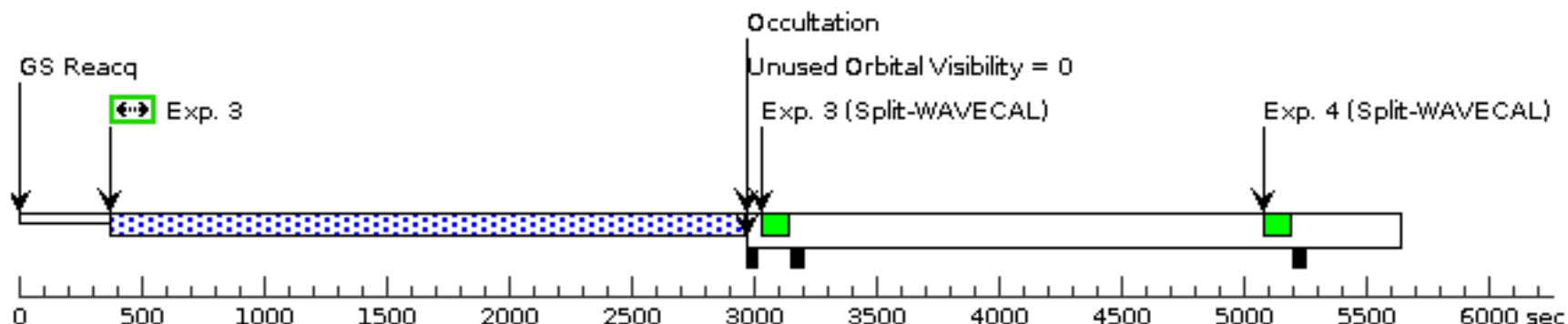
Orbit 1

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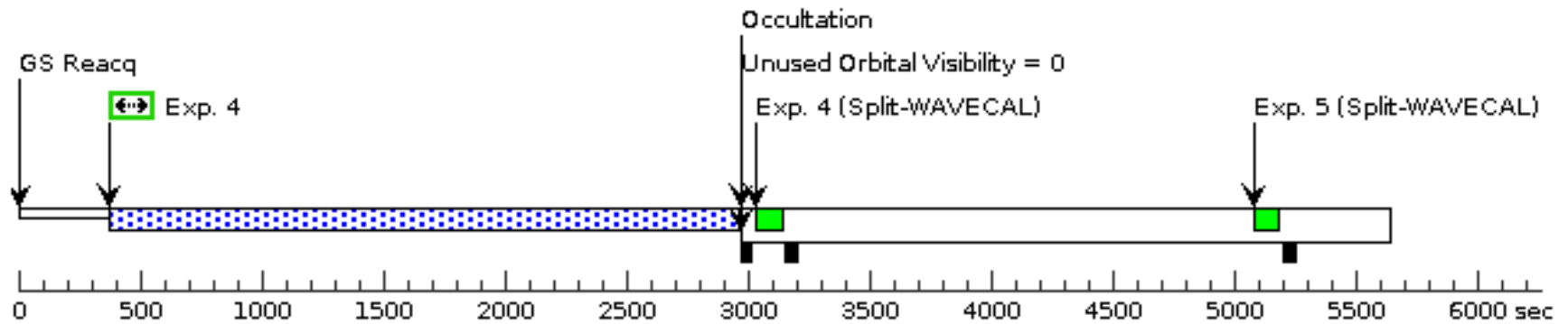
Orbit 2

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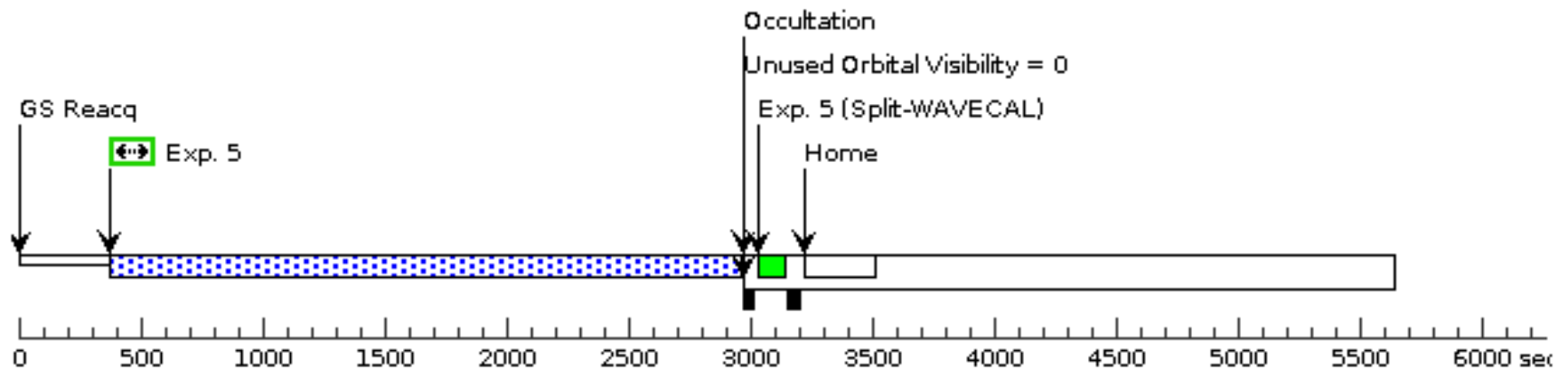
Orbit 3

Server Version: 20260618



Orbit 4

Server Version: 20260618



Proposal 18429 - SDSS1322, Second Visit, 4 orbits (04) - The Intra-Group Medium of Local Group Analogues

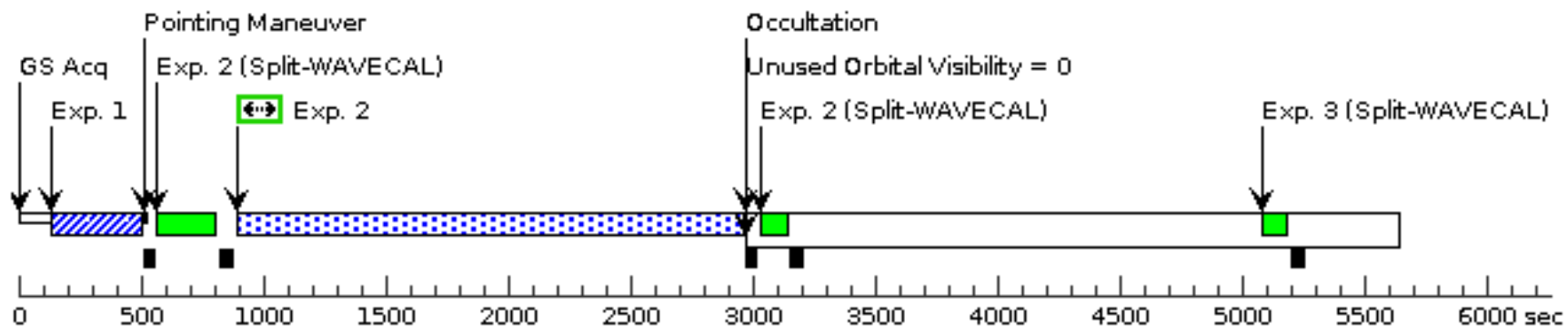
Visit	Proposal 18429, SDSS1322, Second Visit, 4 orbits (04) Tue Aug 18 00:00:29 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(5)	SDSSJ13227-0225	RA: 13 22 42.4772 (200.6769883d) Dec: -02 25 22.05 (-2.42279d) Equinox: J2000	Proper Motion RA: 0.053 mas/yr Proper Motion Dec: -0.0869998984853737 mas/yr Parallax: 2.644000000000003E-4" Epoch of Position: 2000	V=17.4 z=0.12, F(FUV)=3e-15
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=GALAXY Description=[QSO] Extended=NO					

Proposal 18429 - SDSS1322, Second Visit, 4 orbits (04) - The Intra-Group Medium of Local Group Analogues

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Target Acq (COS.ta.236 4987)	(5) SDSSJ13227-022 5	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				30 Secs (30 Secs)	
									[==>]	[1]
		Comments: NUV acquisition exposure COS ETC result for S/N=20; F=3E-15 Count rate 19/sec with MIRRORB. Nominal exposure time for S/N=20 is 20.8 sec Round up to 30 sec to be conservative								
	2	Orbit 1, FP- POS 1 (COS.sp.236 6213)	(5) SDSSJ13227-022 5	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=80 00; LIFETIME-POS=L P7			2023 Secs (2023 Secs)	
									[==>]	[1]
		Comments: Exposure with FP-POS=1, first orbit total count rate 180/sec S/N(orbit)~4.1, S/N(visit)~9.0, S/N(total)~12.7								
	3	Orbit 2, FP- POS 1 (COS.sp.236 6213)	(5) SDSSJ13227-022 5	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=80 00; LIFETIME-POS=L P7			2539 Secs (2539 Secs)	
									[==>]	[2]
		Comments: Exposure with FP-POS=1, second orbit total count rate 180/sec S/N(orbit)~4.6, S/N(visit)~9.0, S/N(total)~12.7								
	4	Orbit 3, FP- POS 2 (COS.sp.236 6213)	(5) SDSSJ13227-022 5	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=80 00; LIFETIME-POS=L P7			2539 Secs (2539 Secs)	
									[==>]	[3]
		Comments: Exposure with FP-POS=2, third orbit total count rate 180/sec S/N(orbit)~4.6, S/N(visit)~9.0, S/N(total)~12.7								
	5	Orbit 4, FP- POS 2 (COS.sp.236 6213)	(5) SDSSJ13227-022 5	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=80 00; LIFETIME-POS=L P7			2539 Secs (2539 Secs)	
									[==>]	[4]
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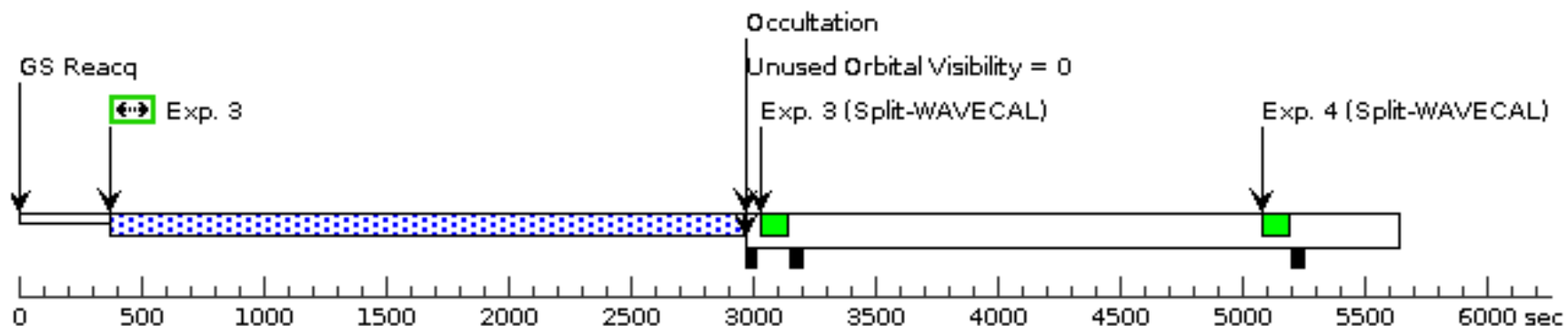
Orbit 1

Server Version: 20260618



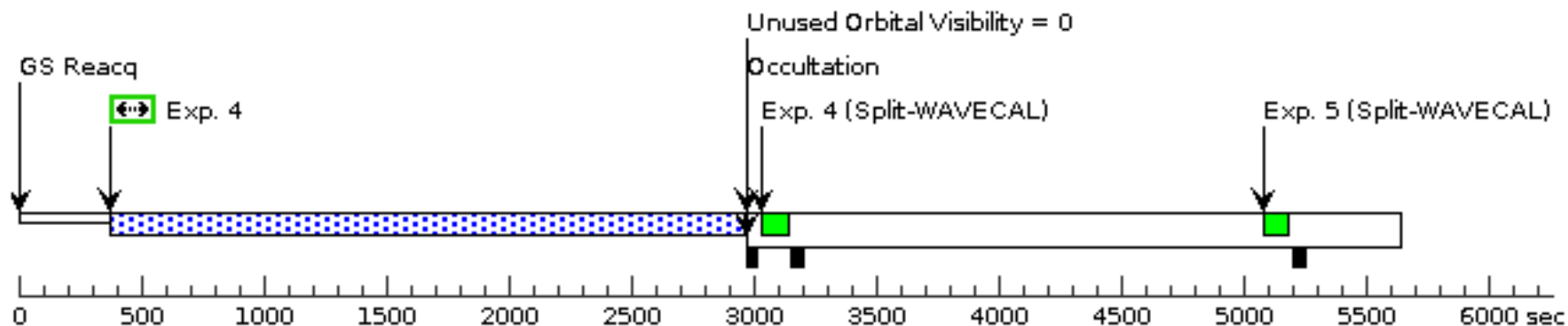
Orbit 2

Server Version: 20260618



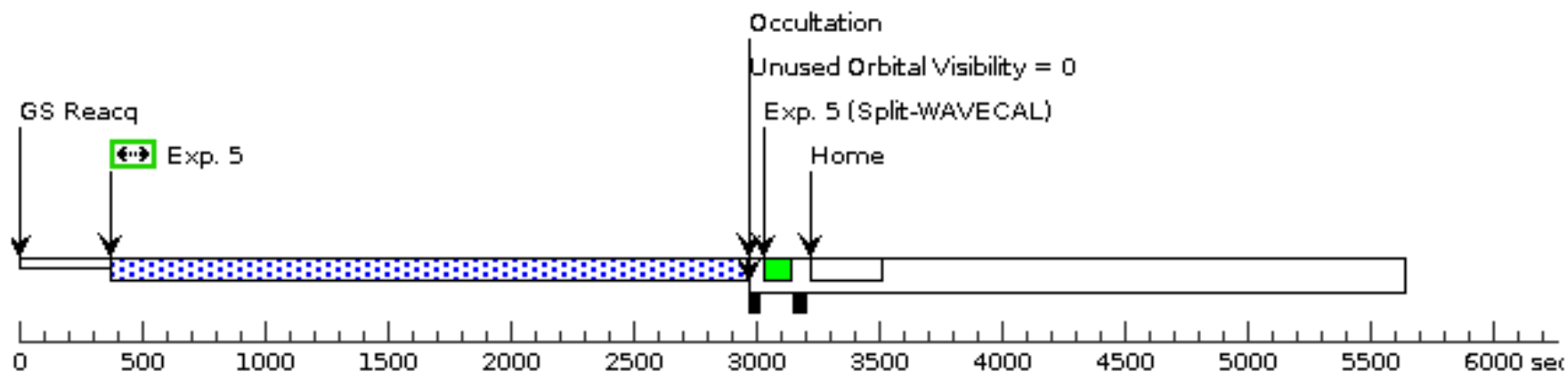
Orbit 3

Server Version: 20260618



Orbit 4

Server Version: 20260618

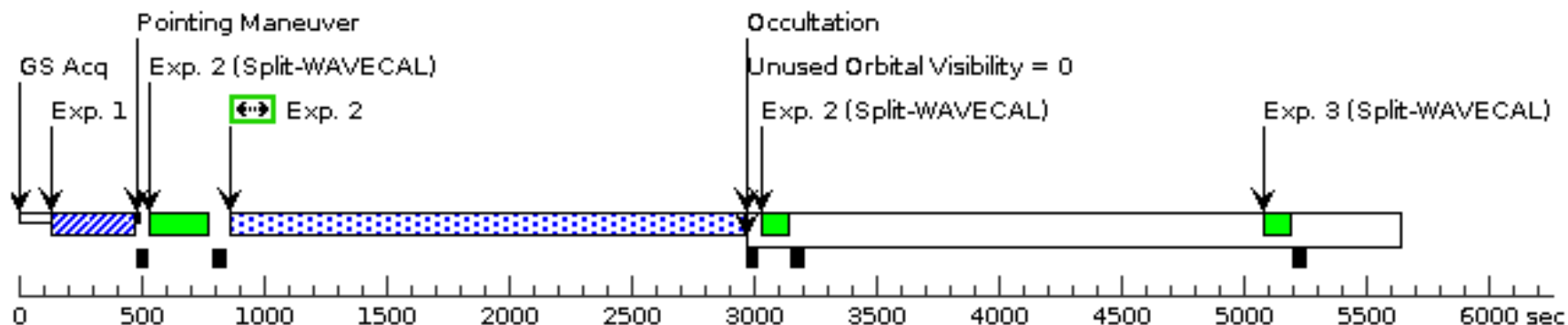


Proposal 18429 - RXSJ0843, First Visit, 3 orbits (05) - The Intra-Group Medium of Local Group Analogues

Visit	Proposal 18429, RXSJ0843, First Visit, 3 orbits (05)									Tue Aug 18 00:00:29 GMT 2026
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	RXSJ08430+0302	RA: 08 43 2.9695 (130.7623729d) Dec: +03 02 18.92 (3.03859d) Equinox: J2000	Proper Motion RA: 0.043 mas/yr Proper Motion Dec: 0.042 mas/yr Epoch of Position: 2000	V=16.12 z=0.512, F(FUV)=6e-15	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.									
	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	Target Acq (COS.ta.236 5685)	(1) RXSJ08430+0302	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				15 Secs (15 Secs)	
									[==>]	[1]
	Comments: NUV acquisition exposure COS ETC result for S/N=20; F=6E-15 Count rate 43/sec with MIRRORB. Nominal exposure time for S/N=20 is 9.3 sec Round up to 15 sec to be conservative									
	2	Orbit 1, FP-POS 1 (COS.sp.236 6231)	(1) RXSJ08430+0302	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=8000; LIFETIME-POS=L P7			2053 Secs (2053 Secs)	
									[==>]	[1]
	Comments: Exposure with FP-POS=1, first orbit total count rate 201/sec S/N(orbit)~3.7, S/N(visit)~6.8, S/N(total)~11.8									
	3	Orbit 2, FP-POS 2 (COS.sp.236 6231)	(1) RXSJ08430+0302	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=8000; LIFETIME-POS=L P7			2539 Secs (2539 Secs)	
									[==>]	[2]
	Comments: Exposure with FP-POS=2, second orbit total count rate 201/sec S/N(orbit)~4.1, S/N(visit)~6.8, S/N(total)~11.8									
4	Orbit 3, FP-POS 2 (COS.sp.236 6231)	(1) RXSJ08430+0302	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=8000; LIFETIME-POS=L P7			2539 Secs (2539 Secs)		
								[==>]	[3]	
Comments: Exposure with FP-POS=2, third orbit total count rate 201/sec S/N(orbit)~4.1, S/N(visit)~6.8, S/N(total)~11.8										

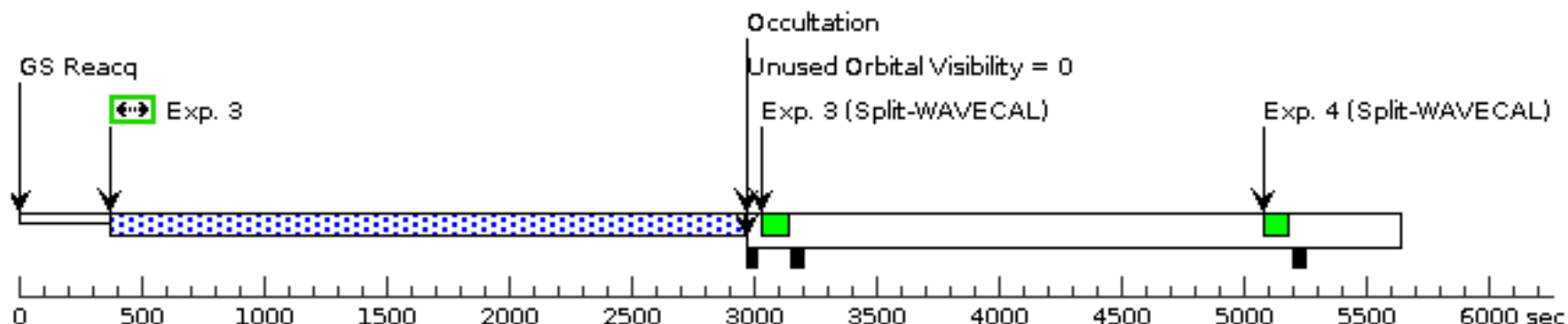
Orbit 1

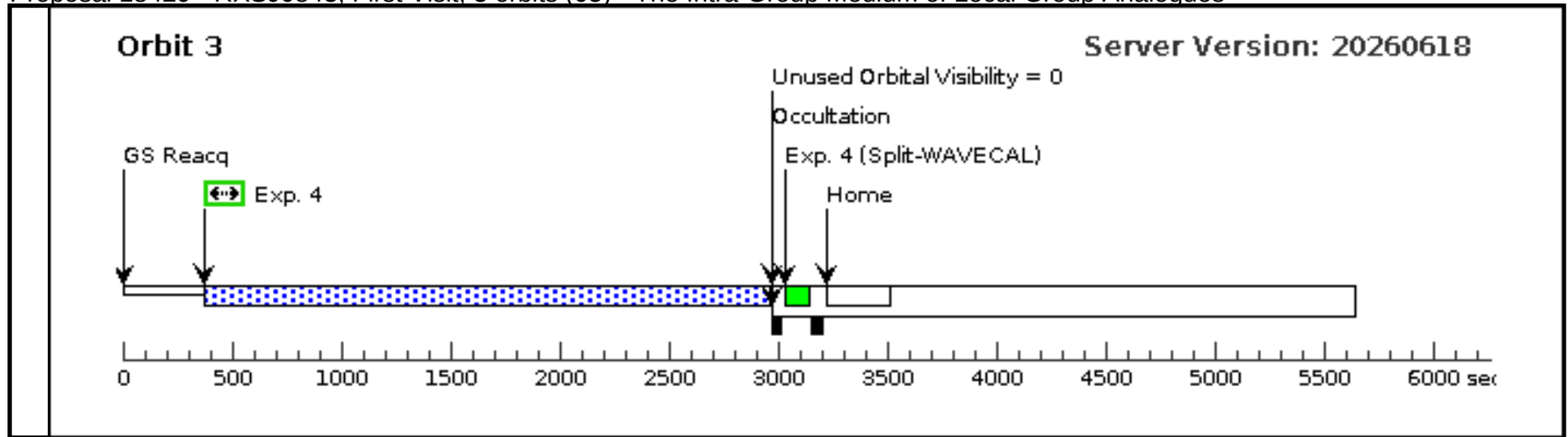
Server Version: 20260618



Orbit 2

Server Version: 20260618



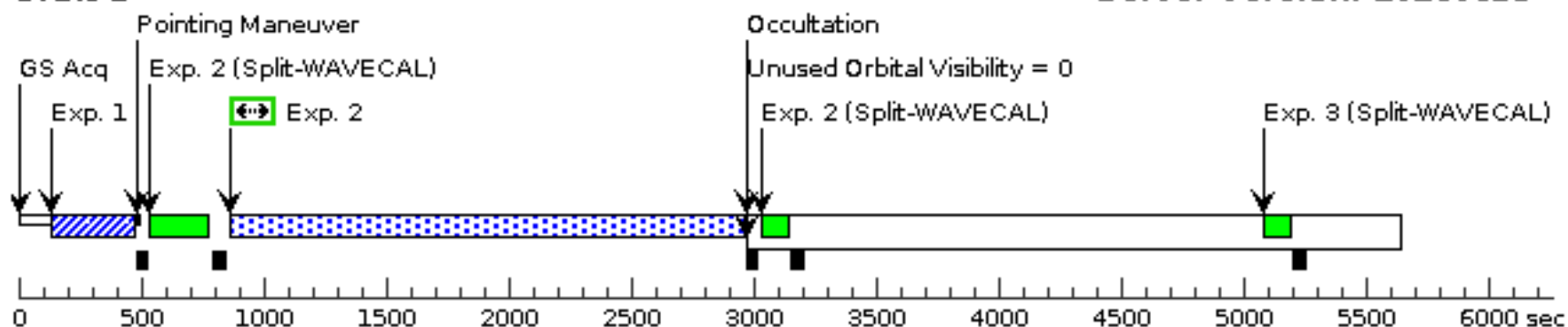


Proposal 18429 - RXSJ0843, Second Visit, 3 orbits (06) - The Intra-Group Medium of Local Group Analogues

Visit	Proposal 18429, RXSJ0843, Second Visit, 3 orbits (06)									Tue Aug 18 00:00:29 GMT 2026
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	RXSJ08430+0302	RA: 08 43 2.9695 (130.7623729d) Dec: +03 02 18.92 (3.03859d) Equinox: J2000	Proper Motion RA: 0.043 mas/yr Proper Motion Dec: 0.042 mas/yr Epoch of Position: 2000	V=16.12 z=0.512, F(FUV)=6e-15	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.									
	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	Target Acq (COS.ta.236 5685)	(1) RXSJ08430+0302	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				15 Secs (15 Secs)	
									[==>]	[1]
	Comments: NUV acquisition exposure COS ETC result for S/N=20; F=6E-15 Count rate 43/sec with MIRRORB. Nominal exposure time for S/N=20 is 9.3 sec Round up to 15 sec to be conservative									
	2	Orbit 1, FP-POS 1 (COS.sp.236 6231)	(1) RXSJ08430+0302	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=8000; LIFETIME-POS=L P7			2053 Secs (2053 Secs)	
									[==>]	[1]
	Comments: Exposure with FP-POS=1, first orbit total count rate 201/sec S/N(orbit)~3.7, S/N(visit)~6.8, S/N(total)~11.8									
	3	Orbit 2, FP-POS 3 (COS.sp.236 6231)	(1) RXSJ08430+0302	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=8000; LIFETIME-POS=L P7			2539 Secs (2539 Secs)	
									[==>]	[2]
	Comments: Exposure with FP-POS=3, second orbit total count rate 201/sec S/N(orbit)~4.1, S/N(visit)~6.8, S/N(total)~11.8									
4	Orbit 3, FP-POS 3 (COS.sp.236 6231)	(1) RXSJ08430+0302	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=8000; LIFETIME-POS=L P7			2539 Secs (2539 Secs)		
								[==>]	[3]	
Comments: Exposure with FP-POS=3, third orbit total count rate 201/sec S/N(orbit)~4.1, S/N(visit)~6.8, S/N(total)~11.8										

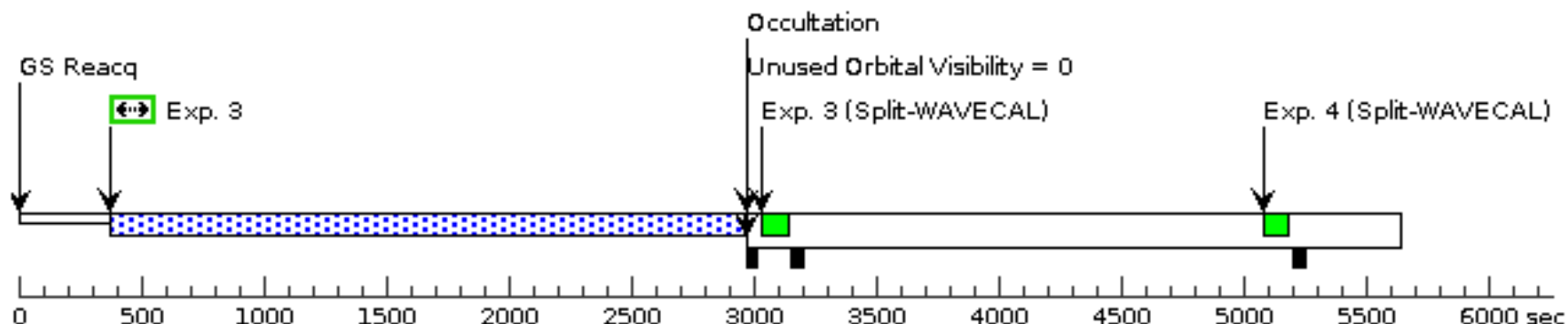
Orbit 1

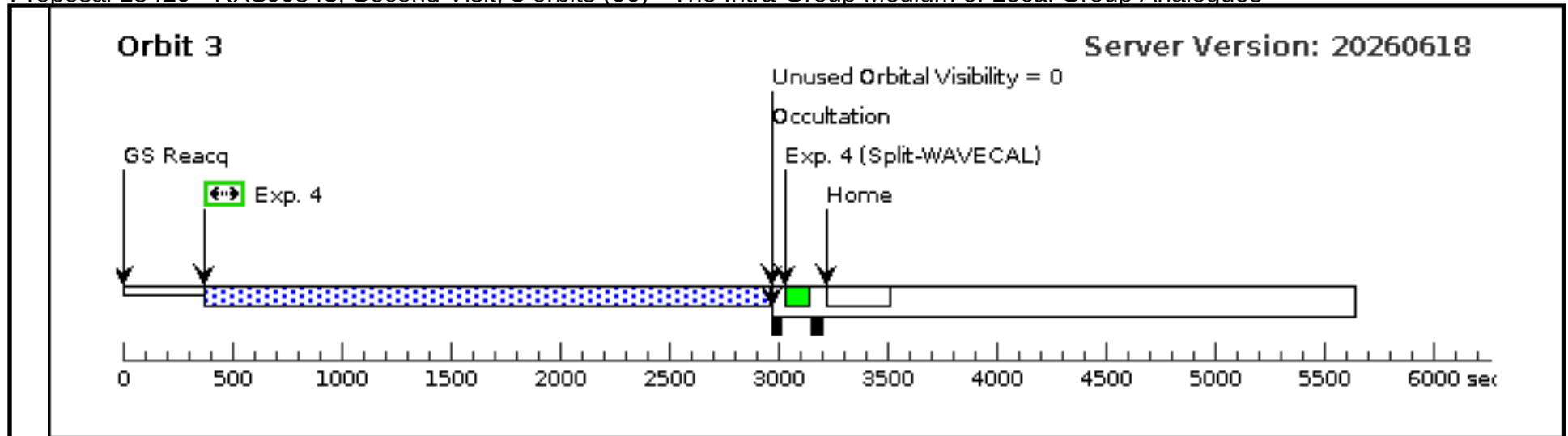
Server Version: 20260618



Orbit 2

Server Version: 20260618



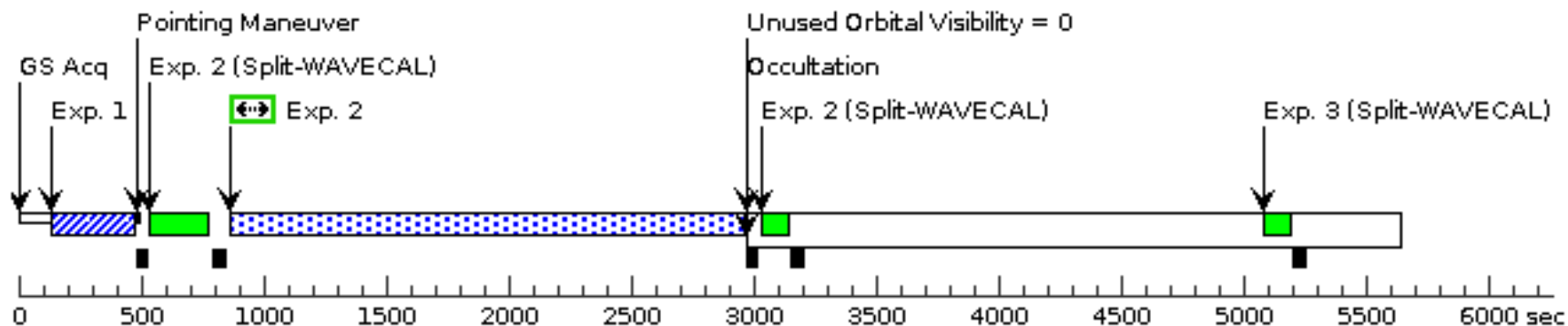


Proposal 18429 - RXSJ0843, Third Visit, 3 orbits (07) - The Intra-Group Medium of Local Group Analogues

Visit	Proposal 18429, RXSJ0843, Third Visit, 3 orbits (07)									Tue Aug 18 00:00:29 GMT 2026
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	RXSJ08430+0302	RA: 08 43 2.9695 (130.7623729d) Dec: +03 02 18.92 (3.03859d) Equinox: J2000	Proper Motion RA: 0.043 mas/yr Proper Motion Dec: 0.042 mas/yr Epoch of Position: 2000	V=16.12 z=0.512, F(FUV)=6e-15	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.									
	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	Target Acq (COS.ta.236 5685)	(1) RXSJ08430+0302	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				15 Secs (15 Secs)	
									[==>]	[1]
	Comments: NUV acquisition exposure COS ETC result for S/N=20; F=6E-15 Count rate 43/sec with MIRRORB. Nominal exposure time for S/N=20 is 9.3 sec Round up to 15 sec to be conservative									
	2	Orbit 1, FP-POS 1 (COS.sp.236 6231)	(1) RXSJ08430+0302	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=8000; LIFETIME-POS=L P7			2053 Secs (2053 Secs)	
									[==>]	[1]
	Comments: Exposure with FP-POS=1, first orbit total count rate 201/sec S/N(orbit)~3.7, S/N(visit)~6.8, S/N(total)~11.8									
	3	Orbit 2, FP-POS 4 (COS.sp.236 6231)	(1) RXSJ08430+0302	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=8000; LIFETIME-POS=L P7			2539 Secs (2539 Secs)	
									[==>]	[2]
	Comments: Exposure with FP-POS=4, second orbit total count rate 201/sec S/N(orbit)~4.1, S/N(visit)~6.8, S/N(total)~11.8									
4	Orbit 3, FP-POS 4 (COS.sp.236 6231)	(1) RXSJ08430+0302	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=8000; LIFETIME-POS=L P7			2539 Secs (2539 Secs)		
								[==>]	[3]	
Comments: Exposure with FP-POS=4, third orbit total count rate 201/sec S/N(orbit)~4.1, S/N(visit)~6.8, S/N(total)~11.8										

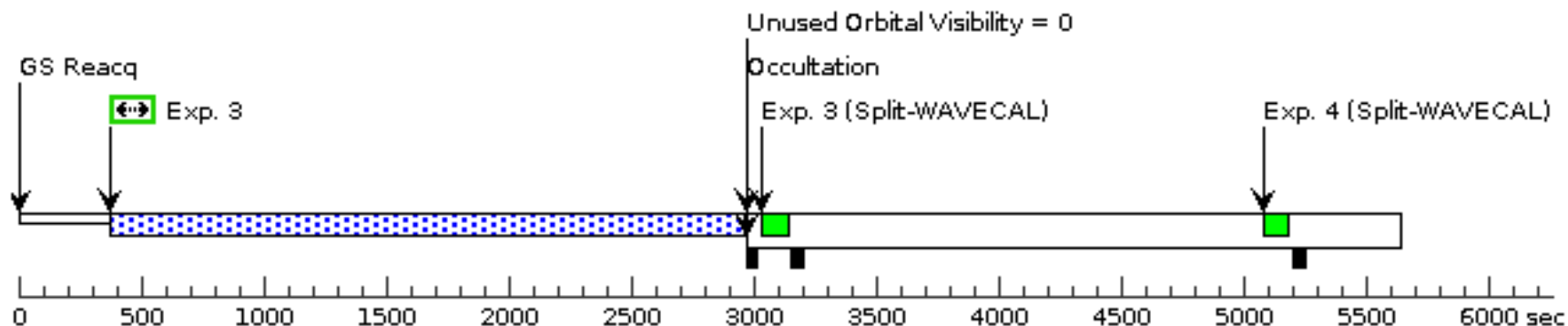
Orbit 1

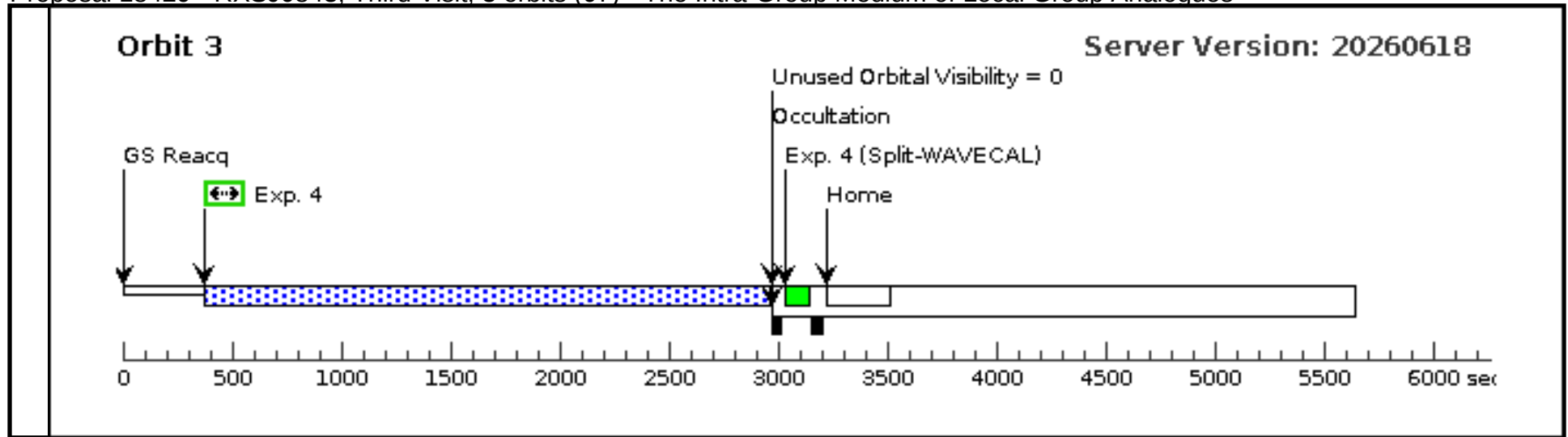
Server Version: 20260618



Orbit 2

Server Version: 20260618



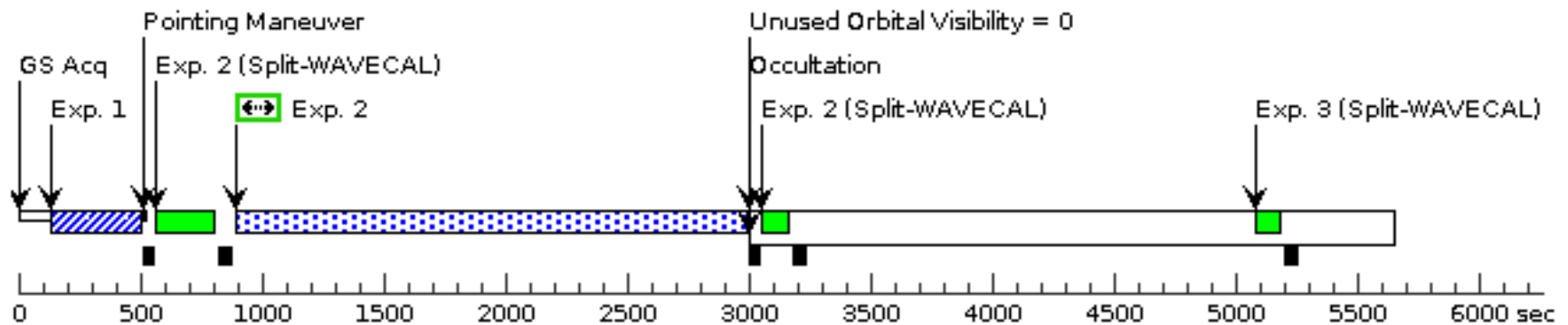


Proposal 18429 - RXSJ0854, First Visit, 3 orbits (08) - The Intra-Group Medium of Local Group Analogues

Visit	Proposal 18429, RXSJ0854, First Visit, 3 orbits (08)									Tue Aug 18 00:00:29 GMT 2026
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(2)	RXSJ08547+4019	RA: 08 54 43.6409 (133.6818371d) Dec: +40 19 7.82 (40.31884d) Equinox: J2000	Proper Motion RA: 0.432 mas/yr Proper Motion Dec: -0.2240000185338431 mas/yr Parallax: 2.6E-5" Epoch of Position: 2000		V=17.46 z=0.152, F(FUV)=4e-15		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.									
	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	Target Acq (COS.ta.236 5712)	(2) RXSJ08547+4019	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				30 Secs (30 Secs)	
									[>=>]	[1]
	Comments: NUV acquisition exposure COS ETC result for S/N=20; flat continuum with GALEX NUV = 17.56 Count rate 21/sec with MIRRORB. Nominal exposure time for S/N=20 is 18.9 sec Rounded up to 30 sec to be conservative									
	2	Orbit 1, FP-POS 1 (COS.sp.236 6244)	(2) RXSJ08547+4019	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=8000; LIFETIME-POS=L P7			2045 Secs (2045 Secs)	
									[>=>]	[1]
	Comments: Exposure with FP-POS=1, first orbit total count rate 194/sec S/N(orbit)~4.6, S/N(visit)~8.7, S/N(total)~12.3									
	3	Orbit 2, FP-POS 1 (COS.sp.236 6244)	(2) RXSJ08547+4019	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=8000; LIFETIME-POS=L P7			2561 Secs (2561 Secs)	
								[>=>]	[2]	
Comments: Exposure with FP-POS=1, second orbit total count rate 194/sec S/N(orbit)~5.2, S/N(visit)~8.7, S/N(total)~12.3										
4	Orbit 3, FP-POS 2 (COS.sp.236 6244)	(2) RXSJ08547+4019	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=8000; LIFETIME-POS=L P7			2561 Secs (2561 Secs)		
								[>=>]	[3]	
Comments: Exposure with FP-POS=2, third orbit total count rate 194/sec S/N(orbit)~5.2, S/N(visit)~8.7, S/N(total)~12.3										

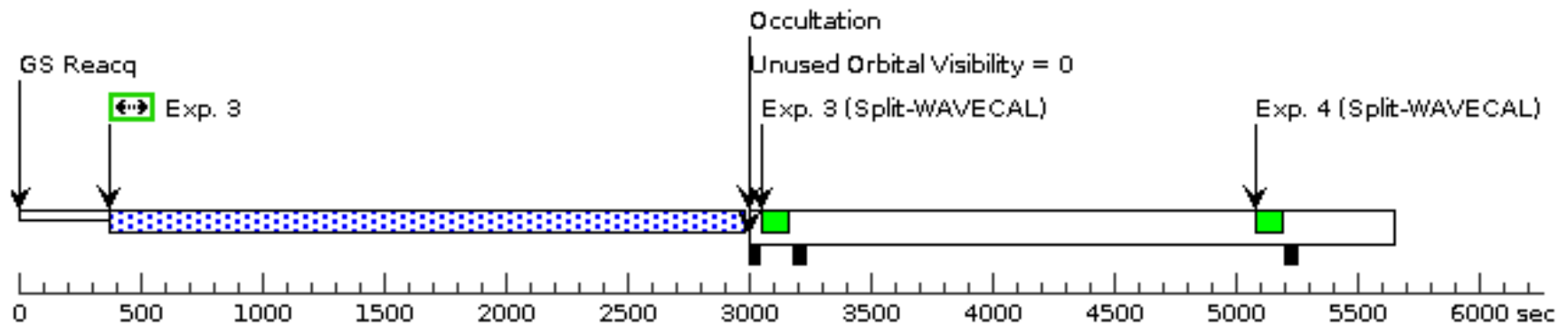
Orbit 1

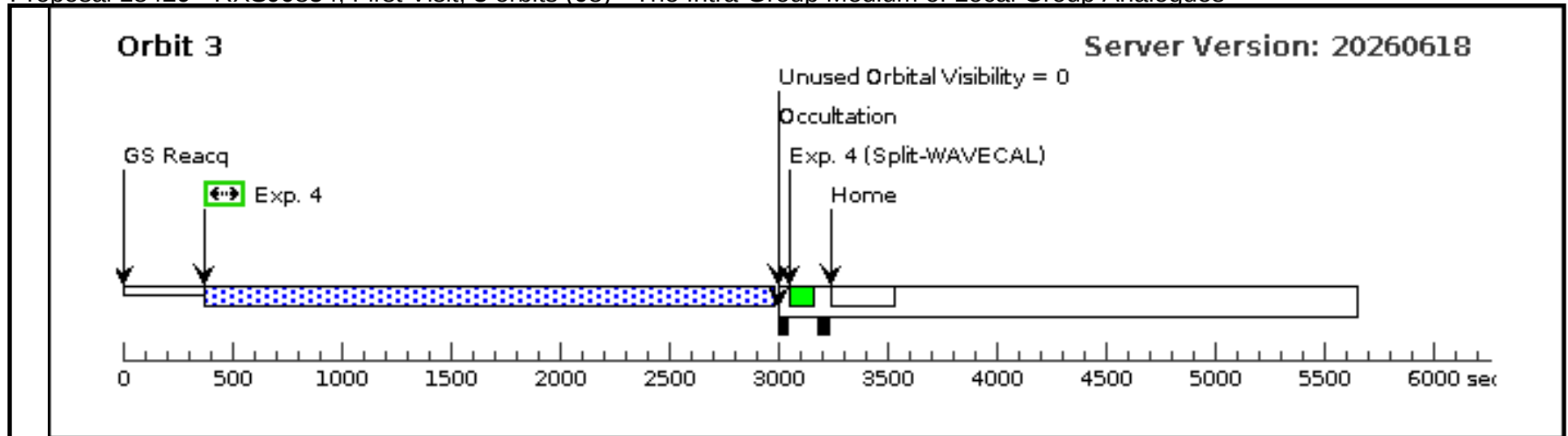
Server Version: 20260618



Orbit 2

Server Version: 20260618



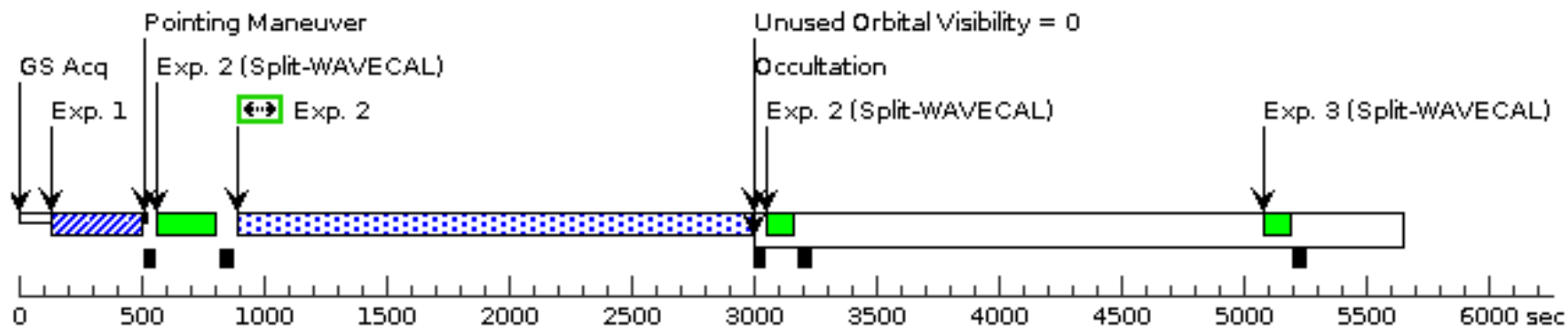


Proposal 18429 - RXSJ0854, Second Visit, 3 orbits (09) - The Intra-Group Medium of Local Group Analogues

Visit	Proposal 18429, RXSJ0854, Second Visit, 3 orbits (09)										Tue Aug 18 00:00:29 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(2)	RXSJ08547+4019	RA: 08 54 43.6409 (133.6818371d) Dec: +40 19 7.82 (40.31884d) Equinox: J2000		Proper Motion RA: 0.432 mas/yr Proper Motion Dec: -0.2240000185338431 mas/yr Parallax: 2.6E-5" Epoch of Position: 2000		V=17.46 z=0.152, F(FUV)=4e-15		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.											
	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	Target Acq (COS.ta.236 5712)	(2) RXSJ08547+4019	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				30 Secs (30 Secs)		
										[>=>]	[1]	
	Comments: NUV acquisition exposure COS ETC result for S/N=20; flat continuum with GALEX NUV = 17.56 Count rate 21/sec with MIRRORB. Nominal exposure time for S/N=20 is 18.9 sec Rounded up to 30 sec to be conservative											
	2	Orbit 1, FP-POS 2 (COS.sp.236 6244)	(2) RXSJ08547+4019	COS/FUV, TIME-TAG, PSA		G130M 1222 A	FP-POS=2; BUFFER-TIME=8000; LIFETIME-POS=L P7			2045 Secs (2045 Secs)		
										[>=>]	[1]	
	Comments: Exposure with FP-POS=2, first orbit total count rate 194/sec S/N(orbit)~4.6, S/N(visit)~8.7, S/N(total)~12.3											
	3	Orbit 2, FP-POS 3 (COS.sp.236 6244)	(2) RXSJ08547+4019	COS/FUV, TIME-TAG, PSA		G130M 1222 A	FP-POS=3; BUFFER-TIME=8000; LIFETIME-POS=L P7			2561 Secs (2561 Secs)		
										[>=>]	[2]	
	Comments: Exposure with FP-POS=3, second orbit total count rate 194/sec S/N(orbit)~5.2, S/N(visit)~8.7, S/N(total)~12.3											
4	Orbit 3, FP-POS 4 (COS.sp.236 6244)	(2) RXSJ08547+4019	COS/FUV, TIME-TAG, PSA		G130M 1222 A	FP-POS=4; BUFFER-TIME=8000; LIFETIME-POS=L P7			2561 Secs (2561 Secs)			
									[>=>]	[3]		
Comments: Exposure with FP-POS=4, third orbit total count rate 194/sec S/N(orbit)~5.2, S/N(visit)~8.7, S/N(total)~12.3												

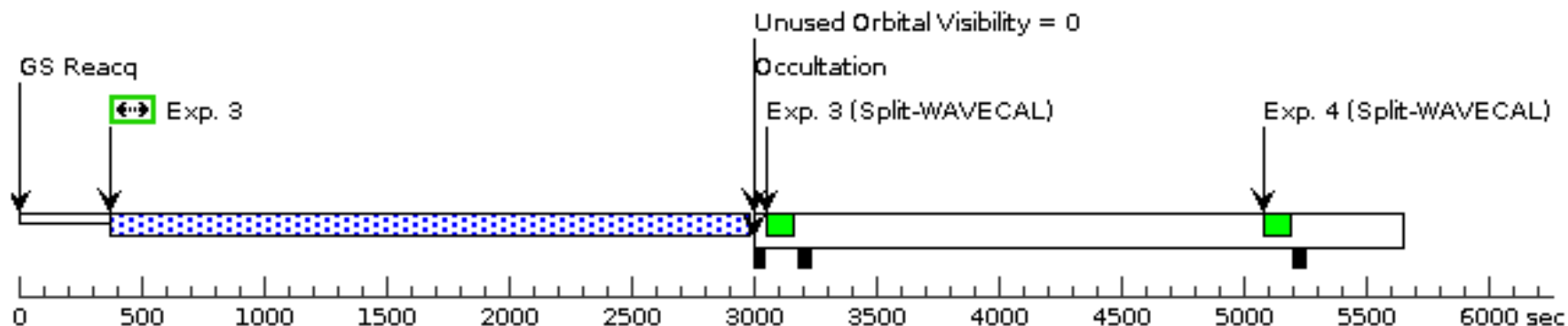
Orbit 1

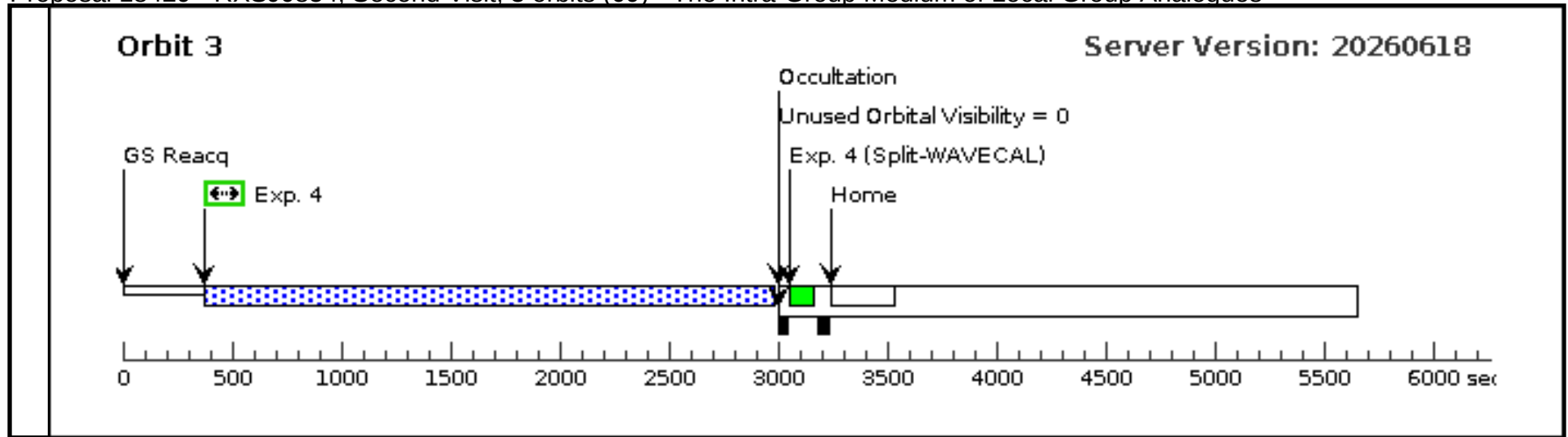
Server Version: 20260618



Orbit 2

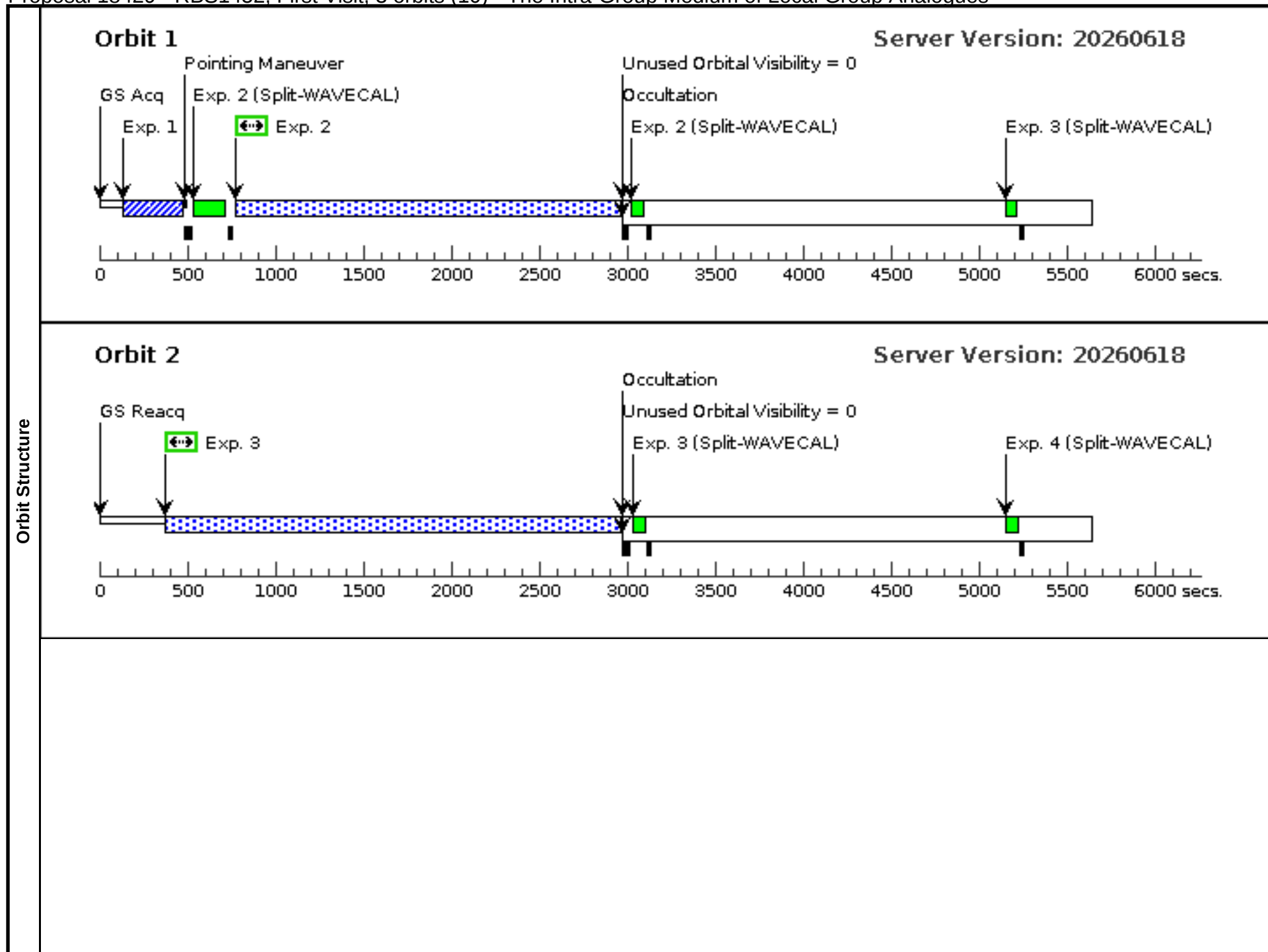
Server Version: 20260618

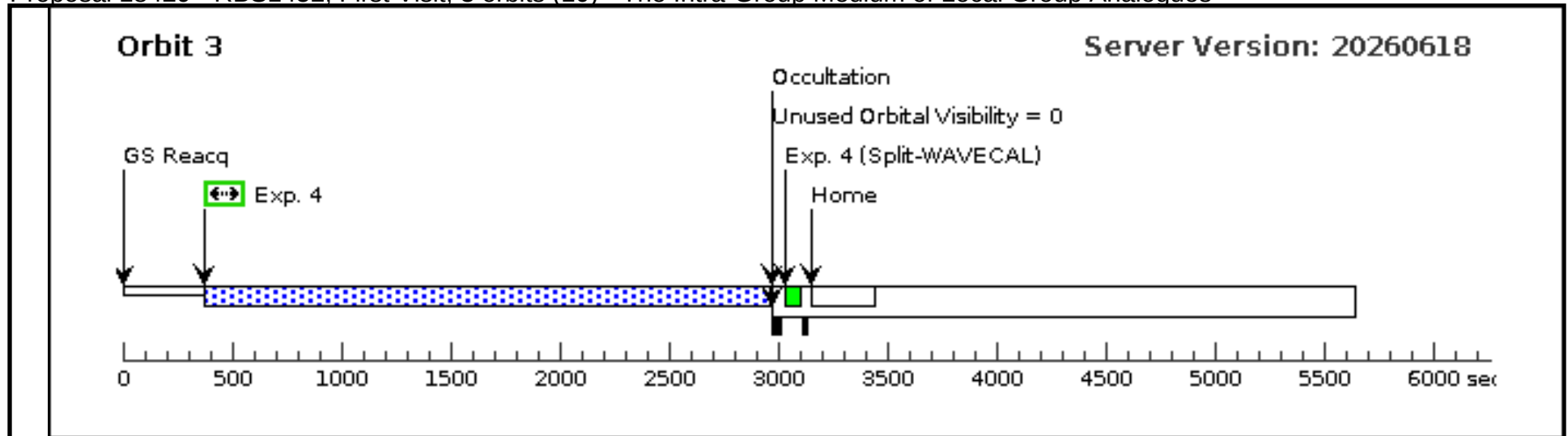




Proposal 18429 - RBS1452, First Visit, 3 orbits (10) - The Intra-Group Medium of Local Group Analogues

Visit	Proposal 18429, RBS1452, First Visit, 3 orbits (10)									Tue Aug 18 00:00:29 GMT 2026
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	RBS1452	RA: 15 01 1.8350 (225.2576458d) Dec: +22 38 6.37 (22.63510d) Equinox: J2000	Proper Motion RA: 0.036 mas/yr Proper Motion Dec: 0.049 mas/yr Parallax: 1.9900000000000003E-5" Epoch of Position: 2000	V=15.79 z=0.235, F(FUV)=5e-15	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. 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	Target Acq (COS.ta.236 5920)	(4) RBS1452	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				15 Secs (15 Secs) [==>]	 [1]
	Comments: NUV acquisition exposure COS ETC result for S/N=20; F=5E-15 Count rate 36/sec with MIRRORB. Nominal exposure time for S/N=20 is 11.2 sec Round up to 15 sec to be conservative									
	2	Orbit 1, FP-POS 3 (COS.sp.236 6259)	(4) RBS1452	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 000; LIFETIME-POS=L P7			2139 Secs (2139 Secs) [==>]	 [1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 148/sec S/N(orbit)~4.9, S/N(visit)~9.0, S/N(total)~12.7									
	3	Orbit 2, FP-POS 3 (COS.sp.236 6259)	(4) RBS1452	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 000; LIFETIME-POS=L P7			2539 Secs (2539 Secs) [==>]	 [2]
	Comments: Exposure with FP-POS=3, second orbit total count rate 148/sec S/N(orbit)~5.3, S/N(visit)~9.0, S/N(total)~12.7									
	4	Orbit 3, FP-POS 4 (COS.sp.236 6259)	(4) RBS1452	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=10 000; LIFETIME-POS=L P7			2539 Secs (2539 Secs) [==>]	 [3]
	Comments: Exposure with FP-POS=4, third orbit total count rate 148/sec S/N(orbit)~5.3, S/N(visit)~9.0, S/N(total)~12.7									



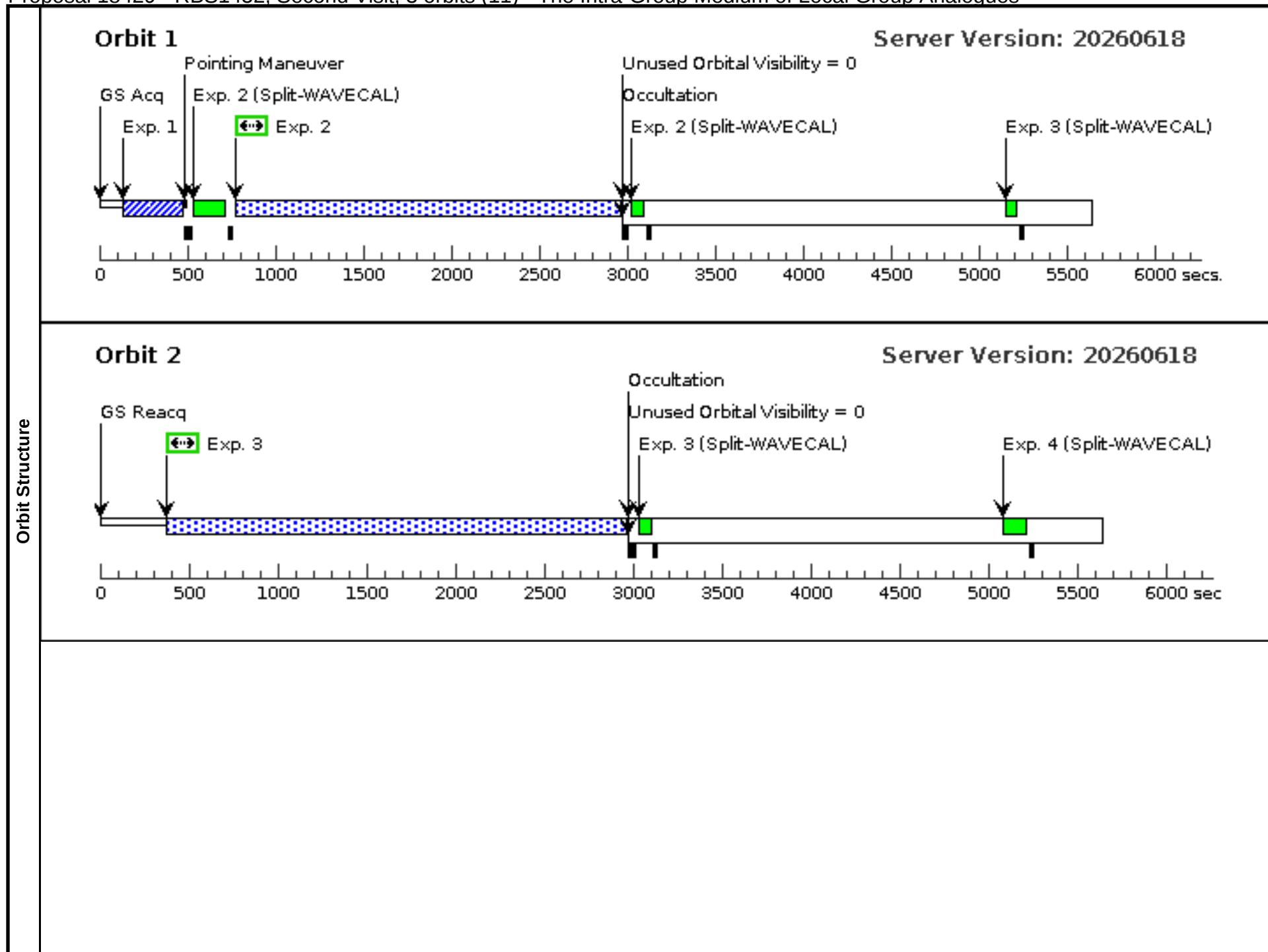


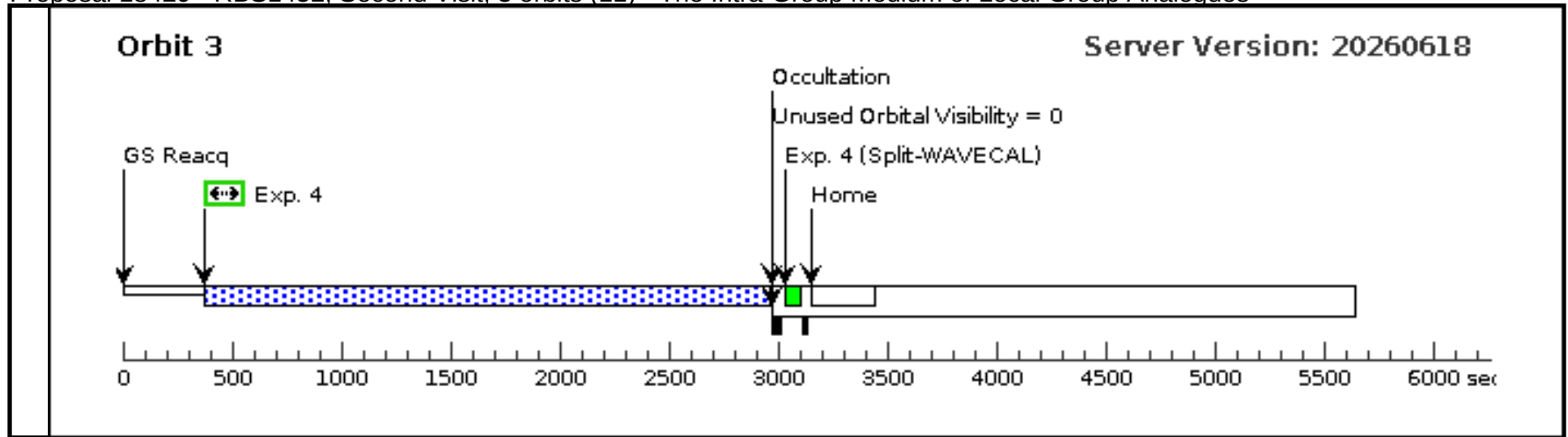
Proposal 18429 - RBS1452, Second Visit, 3 orbits (11) - The Intra-Group Medium of Local Group Analogues

Visit	Proposal 18429, RBS1452, Second Visit, 3 orbits (11) Tue Aug 18 00:00:29 GMT 2026				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)				
Diagnos	(RBS1452, Second Visit, 3 orbits (11)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(4)	RBS1452	RA: 15 01 1.8350 (225.2576458d) Dec: +22 38 6.37 (22.63510d) Equinox: J2000	Proper Motion RA: 0.036 mas/yr Proper Motion Dec: 0.049 mas/yr Parallax: 1.9900000000000003E-5" Epoch of Position: 2000	V=15.79 z=0.235, F(FUV)=5e-15
Miscellaneous Reference Frame: ICRS					
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=GALAXY Description=[QSO] Extended=NO					

Proposal 18429 - RBS1452, Second Visit, 3 orbits (11) - The Intra-Group Medium of Local Group Analogues

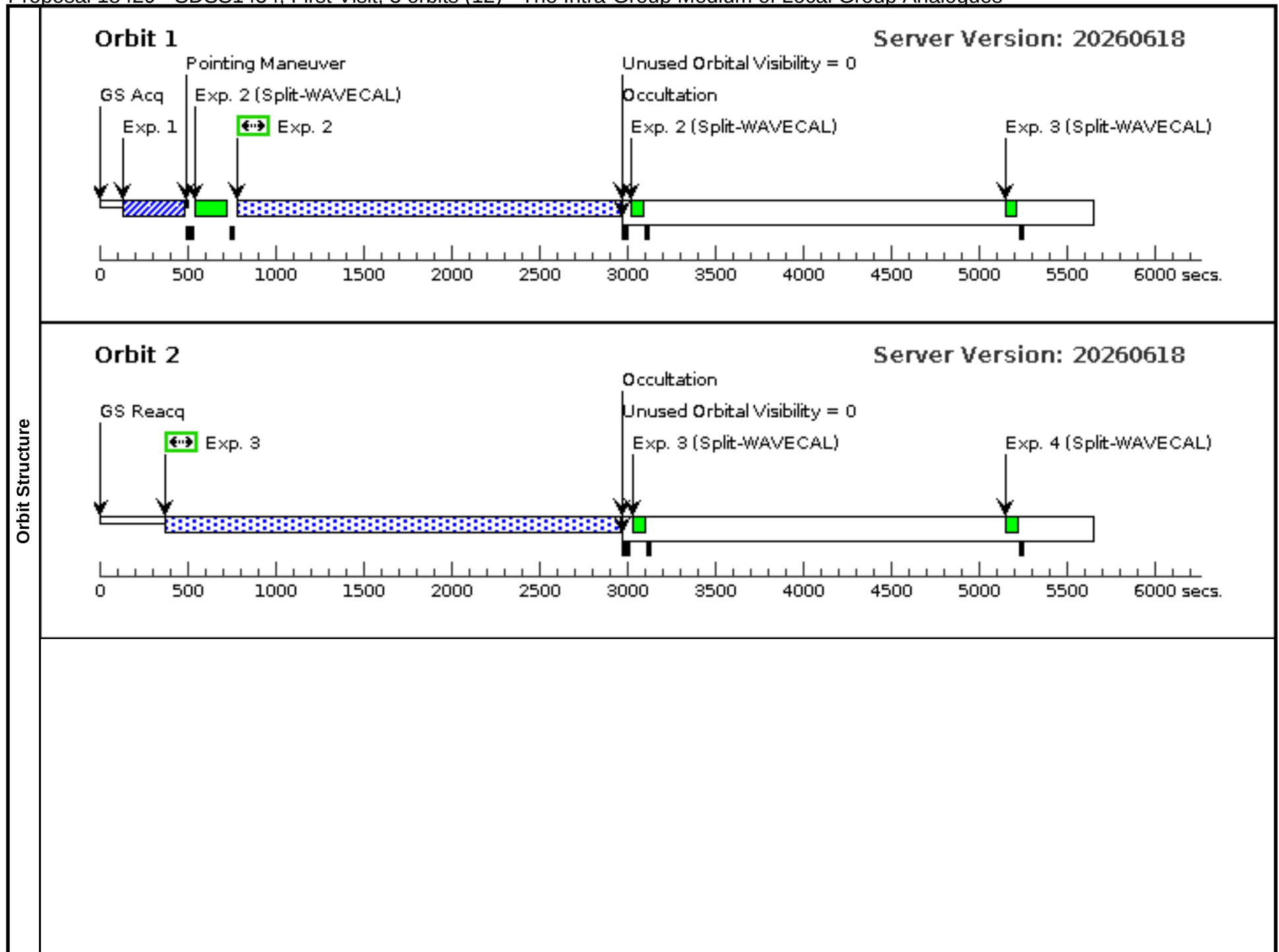
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Target Acq (COS.ta.236 5920)	(4) RBS1452	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				15 Secs (15 Secs)	
									[==>]	[1]
		Comments: NUV acquisition exposure COS ETC result for S/N=20; F=5E-15 Count rate 36/sec with MIRRORB. Nominal exposure time for S/N=20 is 11.2 sec Round up to 15 sec to be conservative								
	2	Orbit 1, FP- POS 4 (COS.sp.236 6259)	(4) RBS1452	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=10 000; LIFETIME-POS=L P7			2139 Secs (2139 Secs)	
									[==>]	[1]
		Comments: Exposure with FP-POS=4, first orbit total count rate 148/sec S/N(orbit)~4.9, S/N(visit)~9.0, S/N(total)~12.7								
	3	Orbit 2, FP- POS 4 (COS.sp.236 6259)	(4) RBS1452	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=10 000; LIFETIME-POS=L P7			2539 Secs (2539 Secs)	
									[==>]	[2]
		Comments: Exposure with FP-POS=4, second orbit total count rate 148/sec S/N(orbit)~5.3, S/N(visit)~9.0, S/N(total)~12.7								
	4	Orbit 3, FP- POS 3 (COS.sp.236 6259)	(4) RBS1452	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 000; LIFETIME-POS=L P7			2539 Secs (2539 Secs)	
									[==>]	[3]
		Comments: Exposure with FP-POS=3, third orbit total count rate 148/sec S/N(orbit)~5.3, S/N(visit)~9.0, S/N(total)~12.7								

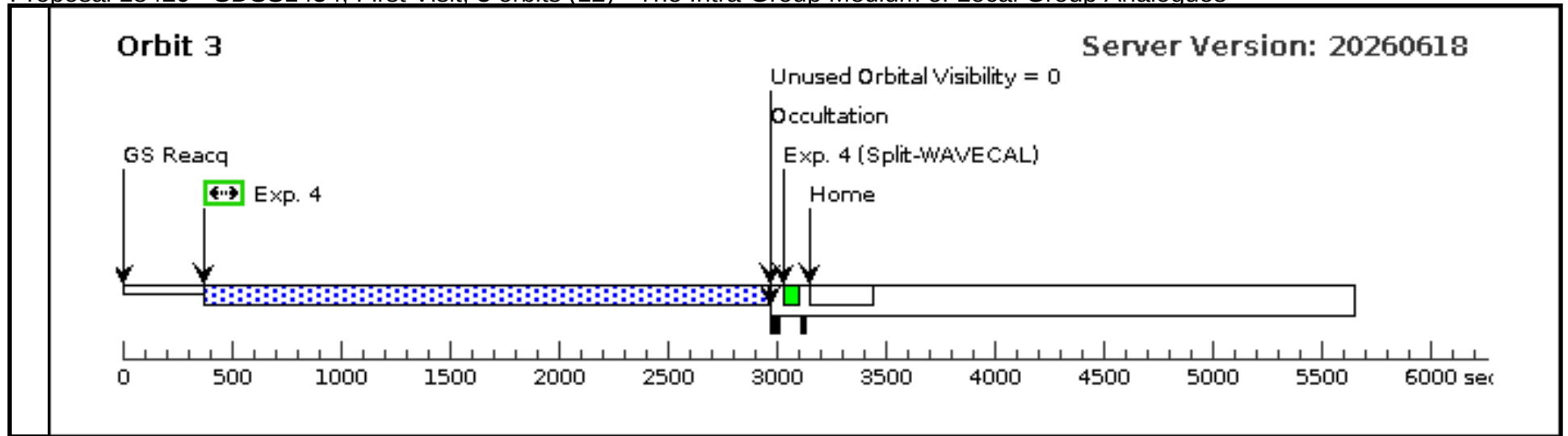




Proposal 18429 - SDSS1454, First Visit, 3 orbits (12) - The Intra-Group Medium of Local Group Analogues

Visit	Proposal 18429, SDSS1454, First Visit, 3 orbits (12)									Tue Aug 18 00:00:29 GMT 2026
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(6)	SDSSJ14548+1114	RA: 14 54 50.0257 (223.7084404d) Dec: +11 14 34.48 (11.24291d) Equinox: J2000	Proper Motion RA: -0.032 mas/yr Proper Motion Dec: -0.07699993602727773 mas/yr Epoch of Position: 2000		V=16.87 z=0.46, F(FUV)=3.5e-15		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. 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	Target Acq (COS.ta.236 5944)	(6) SDSSJ14548+1114	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				20 Secs (20 Secs)	
									[==>]	[1]
	Comments: NUV acquisition exposure COS ETC result for S/N=20; F=3.5E-15 Count rate 25/sec with MIRRORB. Nominal exposure time for S/N=20 is 16.0 sec Round up to 20 sec to be conservative									
	2	Orbit 1, FP-POS 3 (COS.sp.236 6267)	(6) SDSSJ14548+1114	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10000; LIFETIME-POS=L P7			2124 Secs (2124 Secs)	
									[==>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 142/sec S/N(orbit)~5.0, S/N(visit)~9.2, S/N(total)~13.1									
	3	Orbit 2, FP-POS 3 (COS.sp.236 6267)	(6) SDSSJ14548+1114	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10000; LIFETIME-POS=L P7			2534 Secs (2534 Secs)	
									[==>]	[2]
	Comments: Exposure with FP-POS=3, second orbit total count rate 142/sec S/N(orbit)~5.5, S/N(visit)~9.2, S/N(total)~13.1									
4	Orbit 3, FP-POS 4 (COS.sp.236 6267)	(6) SDSSJ14548+1114	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=10000; LIFETIME-POS=L P7			2534 Secs (2534 Secs)		
								[==>]	[3]	
Comments: Exposure with FP-POS=4, third orbit total count rate 142/sec S/N(orbit)~5.5, S/N(visit)~9.2, S/N(total)~13.1										





Proposal 18429 - SDSS1454, Second Visit, 3 orbits (13) - The Intra-Group Medium of Local Group Analogues

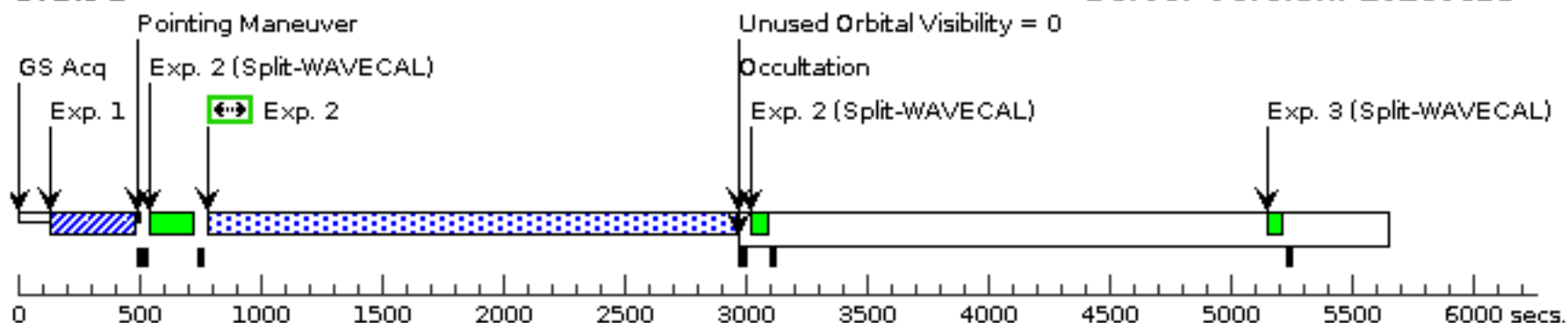
Visit	Proposal 18429, SDSS1454, Second Visit, 3 orbits (13) Tue Aug 18 00:00:29 GMT 2026				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)				
Diagnosics	(SDSS1454, Second Visit, 3 orbits (13)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(6)	SDSSJ14548+1114	RA: 14 54 50.0257 (223.7084404d) Dec: +11 14 34.48 (11.24291d) Equinox: J2000	Proper Motion RA: -0.032 mas/yr Proper Motion Dec: -0.0769999360272773 mas/yr Epoch of Position: 2000	V=16.87 z=0.46, F(FUV)=3.5e-15
Miscellaneous Reference Frame: ICRS					
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=GALAXY Description=[QSO] Extended=NO					

Proposal 18429 - SDSS1454, Second Visit, 3 orbits (13) - The Intra-Group Medium of Local Group Analogues

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Target Acq (COS.ta.236 5944)	(6) SDSSJ14548+11 14	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				20 Secs (20 Secs) [==>]	
		Comments: NUV acquisition exposure COS ETC result for S/N=20; F=3.5E-15 Count rate 25/sec with MIRRORB. Nominal exposure time for S/N=20 is 16.0 sec Round up to 20 sec to be conservative								[1]
	2	Orbit 1, FP- POS 4 (COS.sp.236 6267)	(6) SDSSJ14548+11 14	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=10 000; LIFETIME-POS=L P7			2124 Secs (2124 Secs) [==>]	
		Comments: Exposure with FP-POS=4, first orbit total count rate 142/sec S/N(orbit)~5.0, S/N(visit)~9.2, S/N(total)~13.1								[1]
	3	Orbit 2, FP- POS 4 (COS.sp.236 6267)	(6) SDSSJ14548+11 14	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=10 000; LIFETIME-POS=L P7			2534 Secs (2534 Secs) [==>]	
		Comments: Exposure with FP-POS=4, second orbit total count rate 142/sec S/N(orbit)~5.5, S/N(visit)~9.2, S/N(total)~13.1								[2]
	4	Orbit 3, FP- POS 3 (COS.sp.236 6267)	(6) SDSSJ14548+11 14	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 000; LIFETIME-POS=L P7			2534 Secs (2534 Secs) [==>]	
		Comments: Exposure with FP-POS=3, third orbit total count rate 142/sec S/N(orbit)~5.5, S/N(visit)~9.2, S/N(total)~13.1								[3]

Orbit 1

Server Version: 20260618



Orbit 2

Server Version: 20260618

