



18053 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Cycle: 33, Proposal Category: GO
(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Bart P. Wakker (PI) (Contact)	Eureka Scientific Inc.
Prof. Jane C. Charlton (CoI)	The Pennsylvania State University
Dr. Benjamin Darwin Oppenheimer (CoI)	University of Colorado at Boulder
Dr. Ben Rosenwasser (CoI)	University of Toledo
Prof. Joel N. Bregman (CoI)	University of Michigan
Dr. Sameer Sameer (CoI)	University of Notre Dame

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) SDSSJ085215.83+171133.0	COS/FUV COS/NUV	3	21-Aug-2025 15:00:17.0	yes
02	(1) SDSSJ085215.83+171133.0	COS/FUV COS/NUV	3	21-Aug-2025 15:00:19.0	yes
03	(2) SDSSJ150555.20+532613.9	COS/FUV COS/NUV	3	21-Aug-2025 15:00:20.0	yes
04	(3) SDSSJ150556.60+532616.0	COS/FUV COS/NUV	3	21-Aug-2025 15:00:21.0	yes

Proposal 18053 (STScI Edit Number: 0, Created: Thursday, August 21, 2025, 2:00:47PM Eastern Standard Time) - Overview

<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>
05	(4) SDSSJ143017.45+114833.5	COS/FUV COS/NUV	1	21-Aug-2025 15:00:22.0	yes
06	(5) SDSSJ143019.20+114845.0	COS/FUV COS/NUV	3	21-Aug-2025 15:00:23.0	yes
07	(5) SDSSJ143019.20+114845.0	COS/FUV COS/NUV	2	21-Aug-2025 15:00:24.0	yes
08	(6) RXJ1133.4+0326	COS/FUV COS/NUV	3	21-Aug-2025 15:00:25.0	yes
09	(7) PKS0340-37	COS/FUV COS/NUV	3	21-Aug-2025 15:00:26.0	yes
10	(7) PKS0340-37	COS/FUV COS/NUV	3	21-Aug-2025 15:00:27.0	yes
11	(8) MRK1144	COS/FUV COS/NUV	2	21-Aug-2025 15:00:28.0	yes
12	(9) MRK1143	COS/FUV COS/NUV	3	21-Aug-2025 15:00:29.0	yes
13	(10) SDSSJ111938.80+520648.0	COS/FUV COS/NUV	3	21-Aug-2025 15:00:31.0	yes
14	(10) SDSSJ111938.80+520648.0	COS/FUV COS/NUV	2	21-Aug-2025 15:00:32.0	yes
15	(10) SDSSJ111938.80+520648.0	COS/FUV COS/NUV	2	21-Aug-2025 15:00:33.0	yes
16	(11) RBS1011	COS/FUV COS/NUV	1	21-Aug-2025 15:00:33.0	yes
17	(12) SBS1136+595	COS/FUV COS/NUV	2	21-Aug-2025 15:00:34.0	yes
18	(13) UVQSJ221705.59-361946.1	COS/FUV COS/NUV	3	21-Aug-2025 15:00:35.0	yes

Proposal 18053 (STScI Edit Number: 0, Created: Thursday, August 21, 2025, 2:00:47PM Eastern Standard Time) - Overview

<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>
19	(14) RXJ2217.1-3617	COS/FUV COS/NUV	3	21-Aug-2025 15:00:36.0	yes
20	(14) RXJ2217.1-3617	COS/FUV COS/NUV	2	21-Aug-2025 15:00:37.0	yes
21	(15) SDSSJ114220.70+250322.0	COS/FUV COS/NUV	3	21-Aug-2025 15:00:38.0	yes
22	(15) SDSSJ114220.70+250322.0	COS/FUV COS/NUV	2	21-Aug-2025 15:00:39.0	yes
23	(15) SDSSJ114220.70+250322.0	COS/FUV COS/NUV	2	21-Aug-2025 15:00:40.0	yes
24	(16) MRK1103	COS/FUV COS/NUV	2	21-Aug-2025 15:00:41.0	yes
25	(17) MRK1102	COS/FUV COS/NUV	2	21-Aug-2025 15:00:42.0	yes
26	(17) MRK1102	COS/FUV COS/NUV	2	21-Aug-2025 15:00:42.0	yes
27	(18) MRK734	COS/FUV COS/NUV	1	21-Aug-2025 15:00:43.0	yes
28	(19) IC2746	COS/FUV COS/NUV	3	21-Aug-2025 15:00:44.0	yes
29	(19) IC2746	COS/FUV COS/NUV	2	21-Aug-2025 15:00:45.0	yes
30	(20) UM653	COS/FUV COS/NUV	2	21-Aug-2025 15:00:46.0	yes
31	(21) UM654	COS/FUV COS/NUV	2	21-Aug-2025 15:00:47.0	yes

73 Total Orbits Used

ABSTRACT

This proposal aims at observationally determining the characteristic size scale of intergalactic absorbers near redshift 0, which make up the 10,000 K photoionized phase of the intergalactic medium (IGM). Such sizes are a key ingredient in the derivation of the fraction of baryons in the photoionized phase of the IGM. By comparing absorber sizes at $z > 2$ with those locally, we will test predictions that suggest significant growth over cosmic time. This growth is responsible for reducing the gas accretion rate and star formation rate of galaxies. We will determine the distribution of characteristic absorber size at $z=0$ by observing 23 QSOs, which, combined with existing HST STIS/COS data for 13 targets, constitute 18 pairs of sightlines, separated by less than 3 arcmin (40 kpc at $cz=3500$ km/s). The dual sightline approach will allow us to probe the correlations between Ly α absorbers on size scales ranging from 5 to 100 kpc, as a function of HI column density and environment. Our analysis will allow us to compare transverse sizes to sizes derived from photo-ionization modeling, characterize IGM turbulence, compare transverse and line-of-sight correlations, examine large-scale flows, and study structures in galactic halos.

}

OBSERVING DESCRIPTION

We will take spectra of 21 AGN that are within 3 arcmin of a second AGN.

For most targets an ACQ/IMAGE acquisition suffices. but for IC2746 and UM643 an 3x3 ACQ/SEARCH is done to find the brightest spot in what is a slightly extended object.

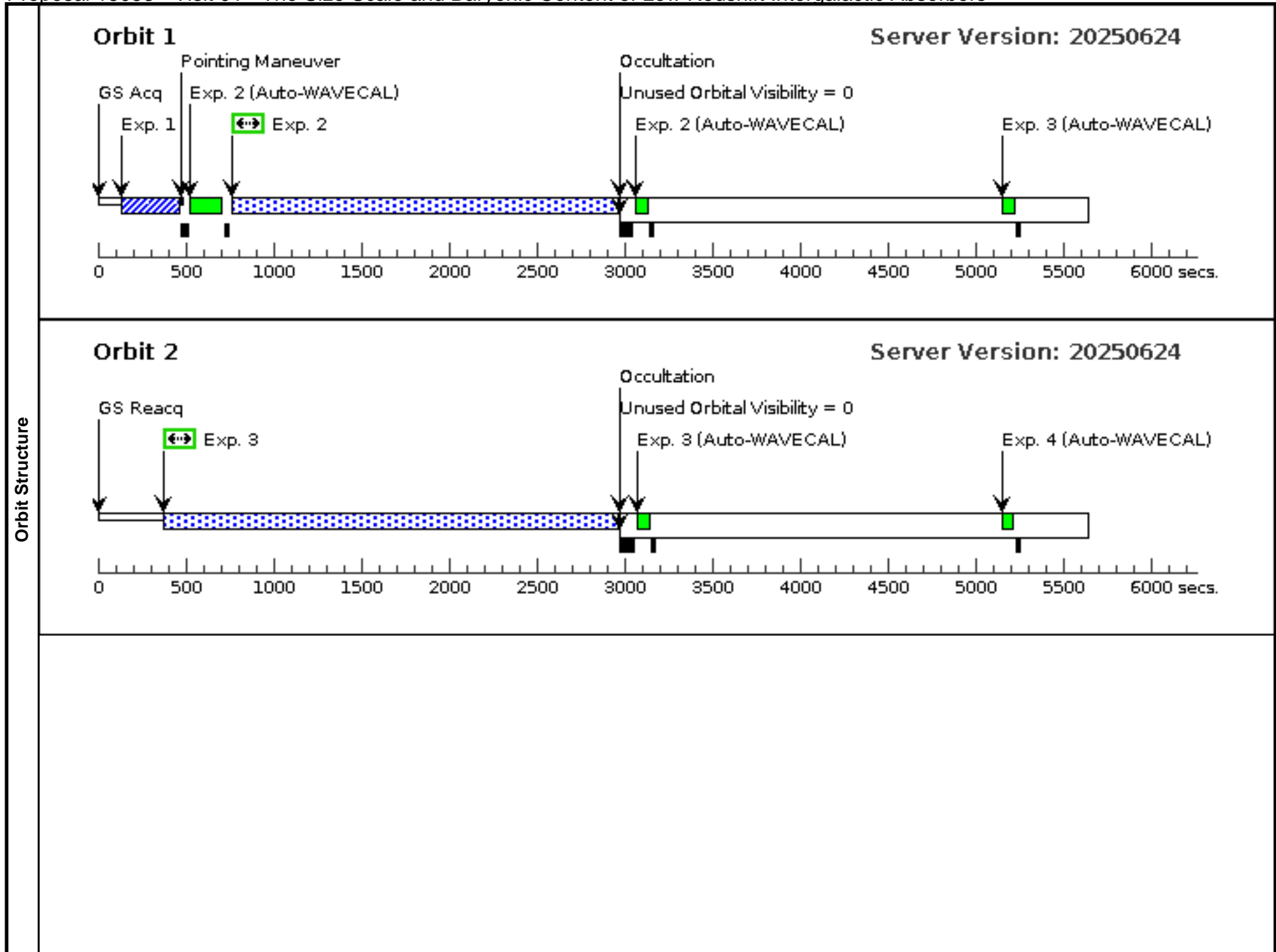
All spectra are taken with G130M using the 1291 central wavelength setting. For the first orbit FP-POS=3 is used, while for the second or third orbit in a visit FP-POS=4.

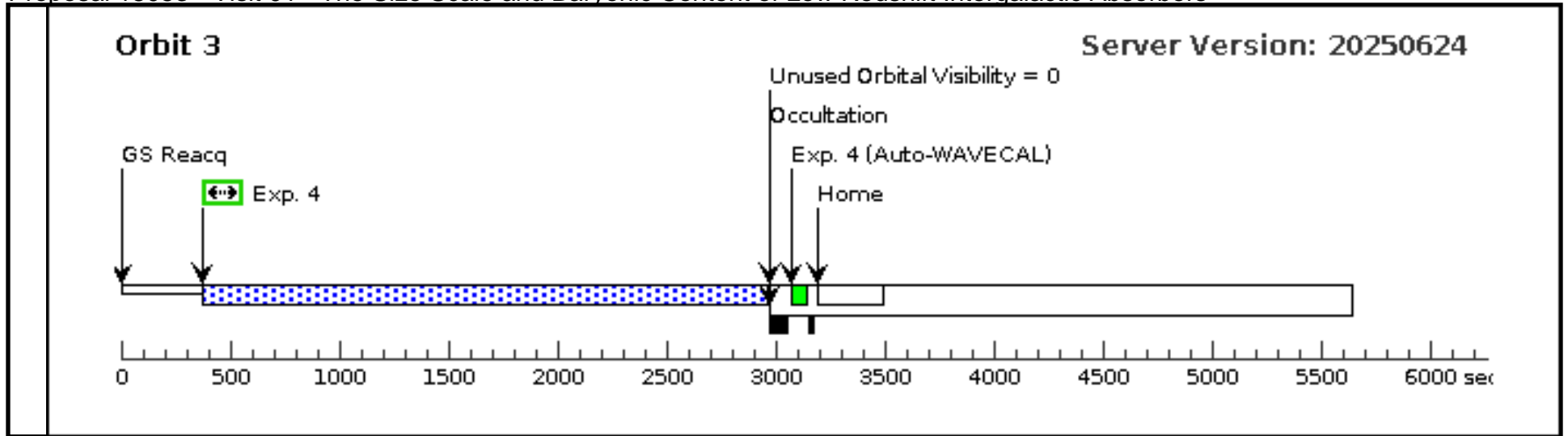
Targets for which more than 3 orbits are allocated are assigned multiple visits or 2 or 3 orbits.

Proposal 18053 - Visit 01 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:47 GMT 2025

Visit	Proposal 18053, Visit 01, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(Visit 01) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(1)	SDSSJ085215.83+17113.0	RA: 08 52 15.8110 (133.0658792d) Dec: +17 11 33.33 (17.19259d) Equinox: J2000	Epoch of Position: 2000 Redshift: 0.500	V=19.10+/-0.1 F=0.08E-14@1250; z=0.561941	Reference Frame: ICRS					
Comments: Category=GALAXY Description=[QUASAR] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	SDSSJ085215.83+171133.0-ACQ (COS.ta.202 2254)	(1) SDSSJ085215.83 +171133.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				10 Secs (10 Secs) [==>]	[1]	
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.08E-14 Count rate 166/sec with MIRRORB. Nominal exposure time for S/N=30 is 5 sec, doubled to 10 sec										
	2	SDSSJ085215.83+171133.0-1.1.3 (COS.sp.202 2293)	(1) SDSSJ085215.83 +171133.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00				2146 Secs (2146 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 344/sec S/N(orbit)~3.1, S/N(total)~7.3										
3	SDSSJ085215.83+171133.0-1.2.4 (COS.sp.202 2293)	(1) SDSSJ085215.83 +171133.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00				2536 Secs (2536 Secs) [==>]	[2]	
Comments: Exposure with FP-POS=4, second orbit total count rate 344/sec S/N(orbit)~3.4, S/N(total)~7.3											
4	SDSSJ085215.83+171133.0-1.3.4 (COS.sp.202 2293)	(1) SDSSJ085215.83 +171133.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00				2536 Secs (2536 Secs) [==>]	[3]	
Comments: Exposure with FP-POS=4, third orbit total count rate 344/sec S/N(orbit)~3.4, S/N(total)~7.3											

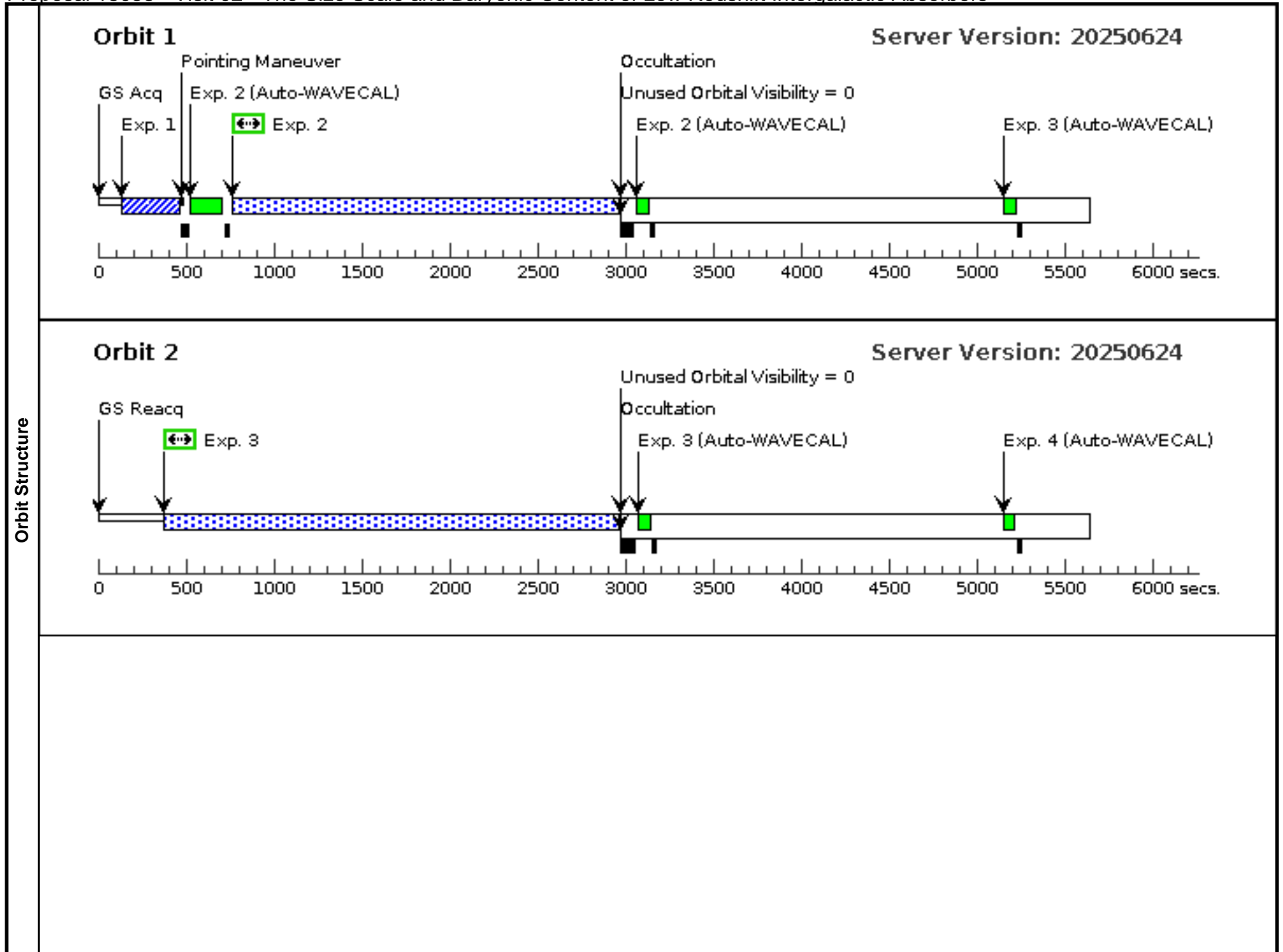


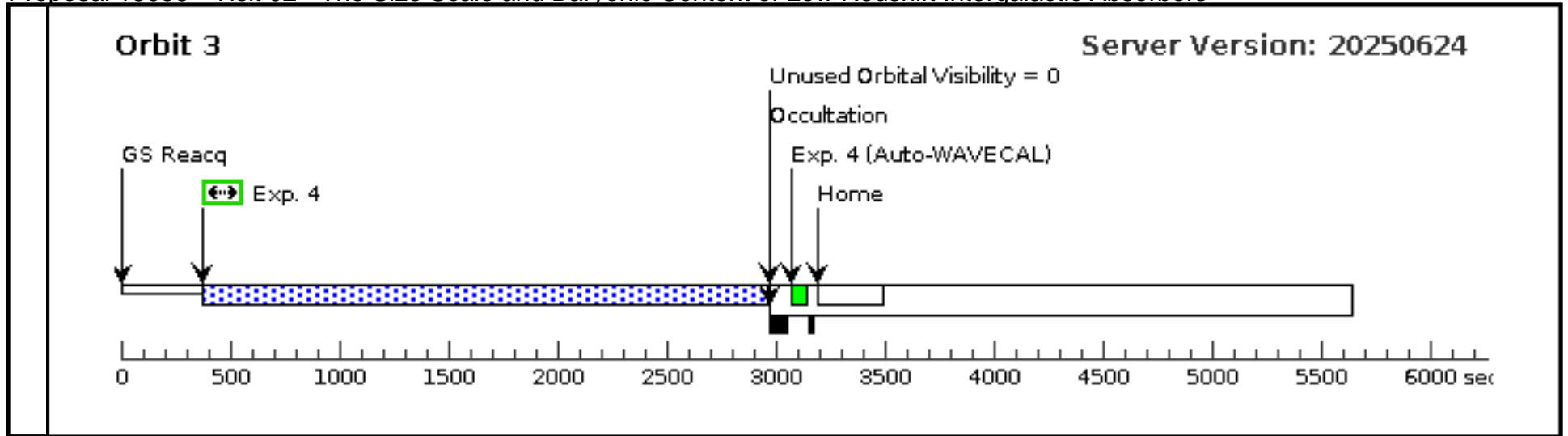


Proposal 18053 - Visit 02 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

Visit	Proposal 18053, Visit 02, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(Visit 02) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(1)	SDSSJ085215.83+17113.0	RA: 08 52 15.8110 (133.0658792d) Dec: +17 11 33.33 (17.19259d) Equinox: J2000	Epoch of Position: 2000 Redshift: 0.500	V=19.10+/-0.1 F=0.08E-14@1250; z=0.561941	Reference Frame: ICRS					
Comments: Category=GALAXY Description=[QUASAR] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	SDSSJ085215.83+171133.0-ACQ (COS.ta.202 2254)	(1) SDSSJ085215.83 +171133.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				10 Secs (10 Secs) [==>]	[1]	
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.08E-14 Count rate 166/sec with MIRRORB. Nominal exposure time for S/N=30 is 5 sec, doubled to 10 sec										
	2	SDSSJ085215.83+171133.0-2.1.3 (COS.sp.202 2293)	(1) SDSSJ085215.83 +171133.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00				2146 Secs (2146 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 344/sec S/N(orbit)~3.1, S/N(total)~7.3										
3	SDSSJ085215.83+171133.0-2.2.4 (COS.sp.202 2293)	(1) SDSSJ085215.83 +171133.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00				2536 Secs (2536 Secs) [==>]	[2]	
Comments: Exposure with FP-POS=4, second orbit total count rate 344/sec S/N(orbit)~3.4, S/N(total)~7.3											
4	SDSSJ085215.83+171133.0-3.2.4 (COS.sp.202 2293)	(1) SDSSJ085215.83 +171133.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00				2536 Secs (2536 Secs) [==>]	[3]	
Comments: Exposure with FP-POS=4, second orbit total count rate 344/sec S/N(orbit)~3.4, S/N(total)~7.3											

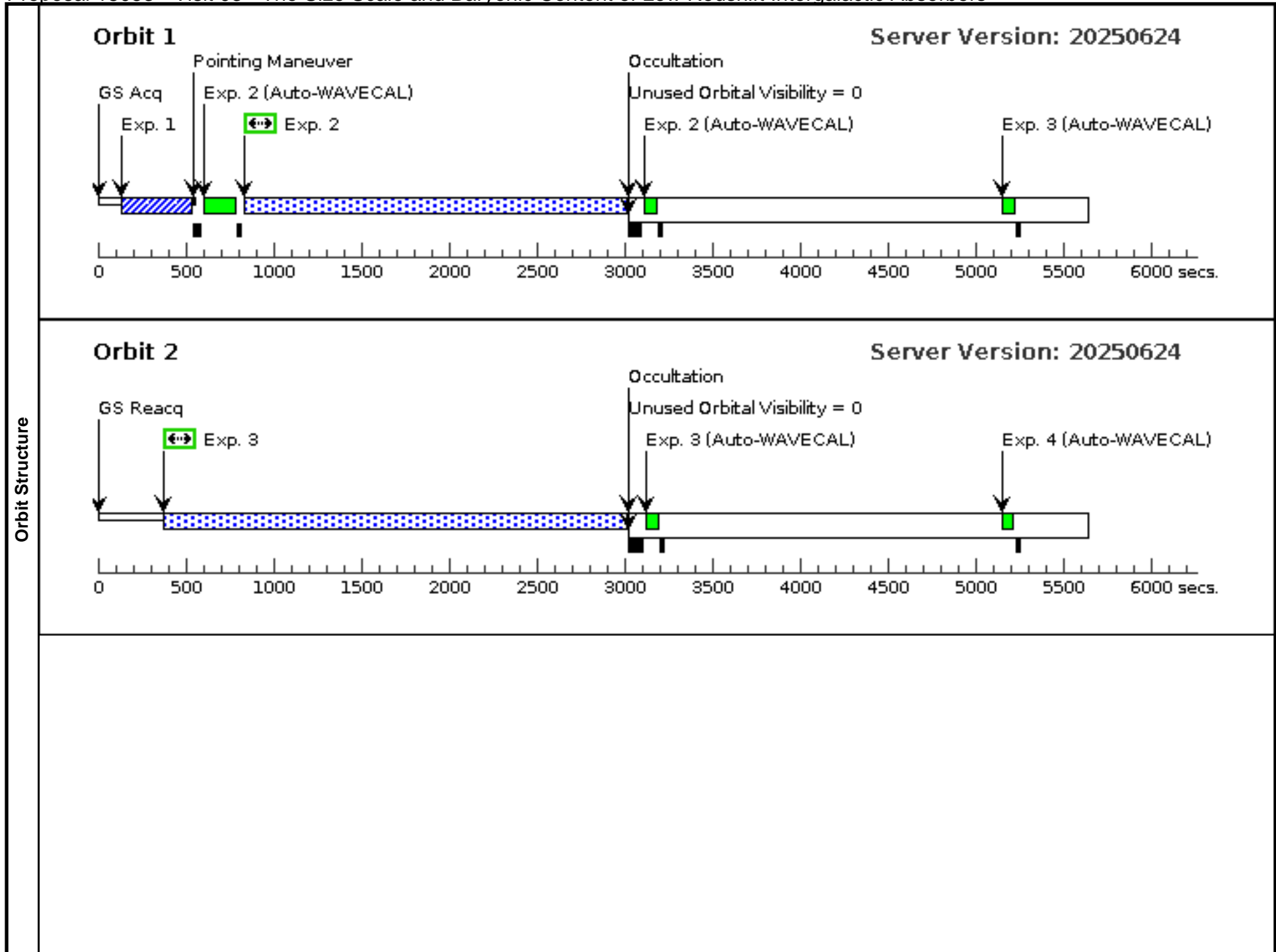


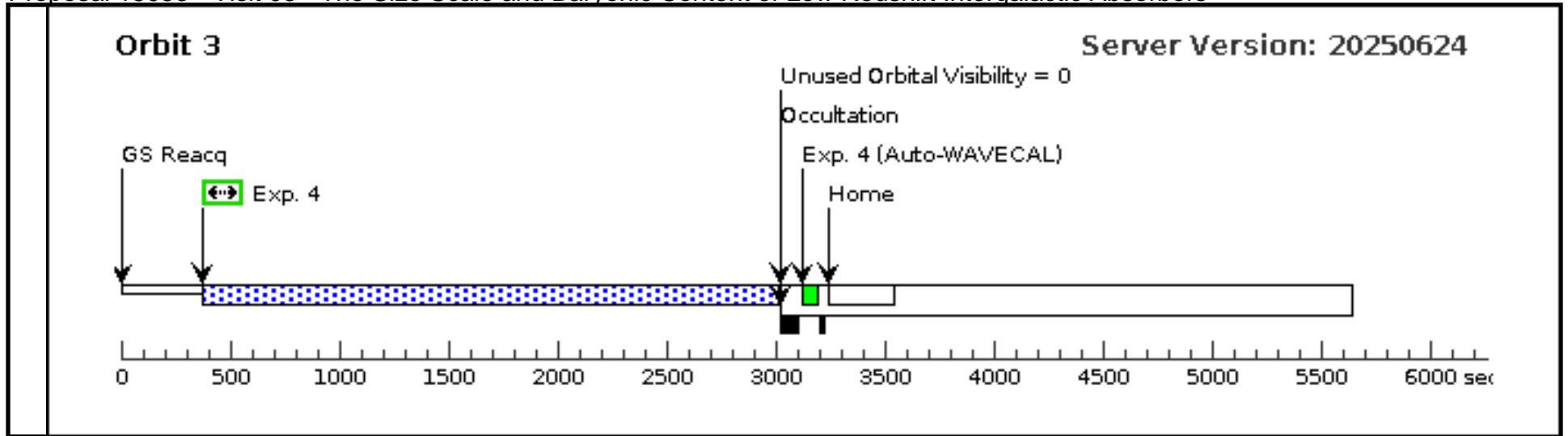


Proposal 18053 - Visit 03 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

Visit	Proposal 18053, Visit 03, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(Visit 03) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(2)	SDSSJ150555.20+532613.9	RA: 15 05 55.2055 (226.4800229d) Dec: +53 26 14.04 (53.43723d) Equinox: J2000		V=16.70+/-0.1 F=0.19E-14@1250; z=0.985692	Reference Frame: ICRS					
Comments: Category=GALAXY Description=[QUASAR] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	SDSSJ150555.20+532613.9-ACQ (COS.ta.202 2220)	(2) SDSSJ150555.20 +532613.9	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				46 Secs (46 Secs) [==>]	[1]	
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.19E-14 Count rate 20/sec										
	2	SDSSJ150555.20+532613.9-1.3 (COS.sp.202 2296)	(2) SDSSJ150555.20 +532613.9	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00				2124 Secs (2124 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 370/sec S/N(orbit)~5.0, S/N(total)~9.3										
3	SDSSJ150555.20+532613.9-2.4 (COS.sp.202 2296)	(2) SDSSJ150555.20 +532613.9	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00				2586 Secs (2586 Secs) [==>]	[2]	
Comments: Exposure with FP-POS=4, second orbit total count rate 370/sec S/N(orbit)~5.5, S/N(total)~9.3											
4	SDSSJ150555.20+532613.9-3.4 (COS.sp.202 2296)	(2) SDSSJ150555.20 +532613.9	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00				2586 Secs (2586 Secs) [==>]	[3]	
Comments: Exposure with FP-POS=4, third orbit total count rate 370/sec S/N(orbit)~5.5, S/N(total)~9.3											

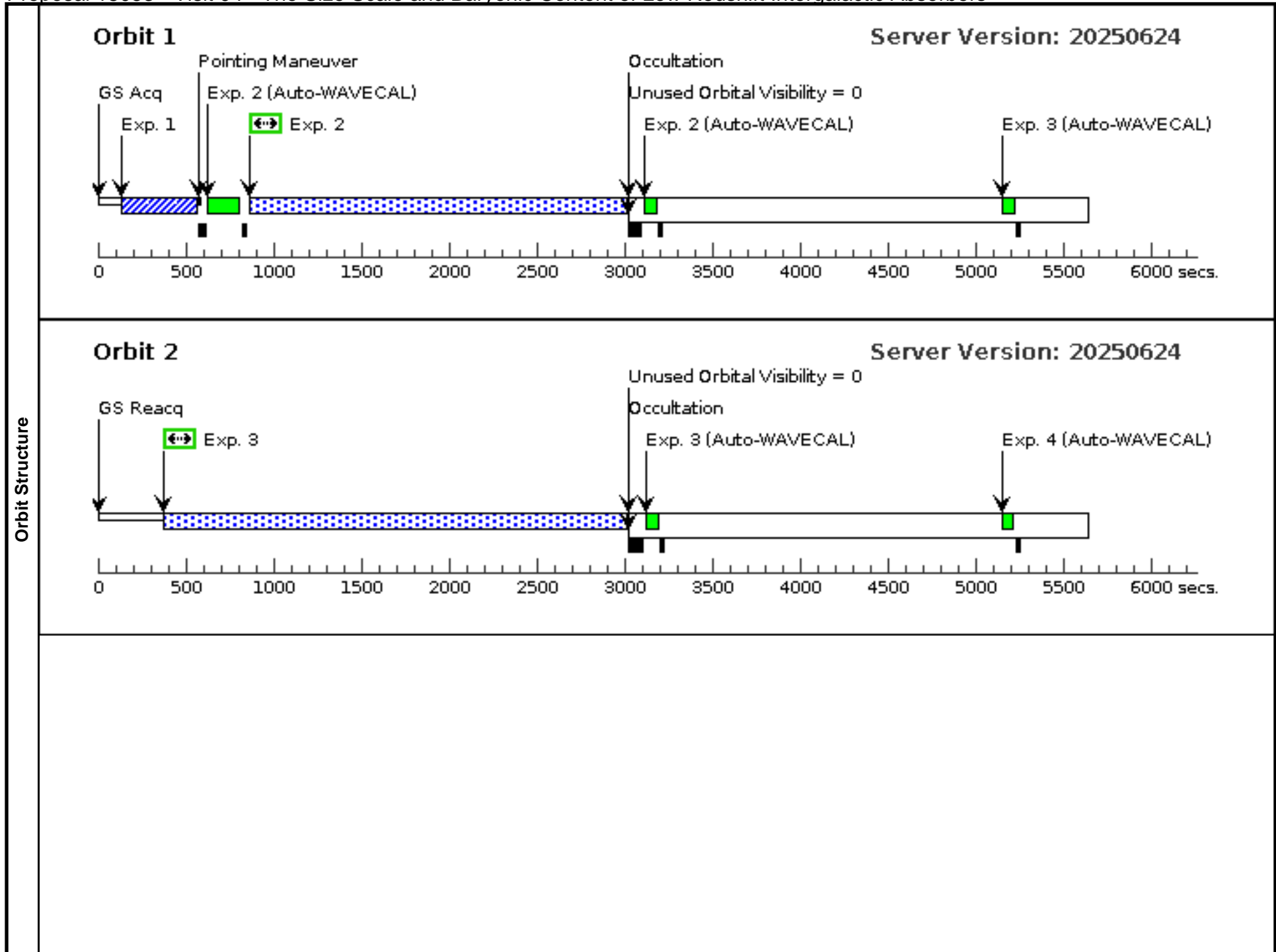


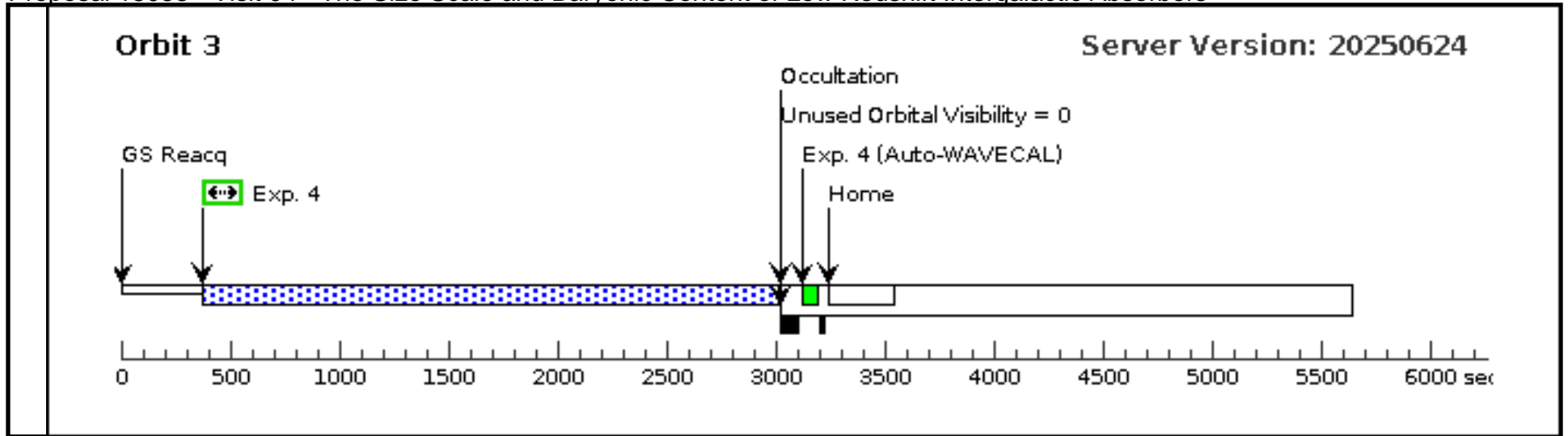


Proposal 18053 - Visit 04 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

Visit	Proposal 18053, Visit 04, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(Visit 04) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(3)	SDSSJ150556.60+532616.0	RA: 15 05 56.5411 (226.4855879d) Dec: +53 26 17.15 (53.43810d) Equinox: J2000		V=19.27+/-0.1 F=0.15E-14@1250; z=0.982415	Reference Frame: ICRS					
Comments: Category=GALAXY Description=[QUASAR] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	SDSSJ150556.60+532616.0-ACQ (COS.ta.202221)	(3) SDSSJ150556.60 +532616.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				59 Secs (59 Secs) [==>]	[1]	
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.15E-14 Count rate 15/sec										
	2	SDSSJ150556.60+532616.0-1.3 (COS.sp.202300)	(3) SDSSJ150556.60 +532616.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=3500				2098 Secs (2098 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 360/sec S/N(orbit)~4.4, S/N(total)~8.1										
3	SDSSJ150556.60+532616.0-2.4 (COS.sp.202300)	(3) SDSSJ150556.60 +532616.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=3500				2586 Secs (2586 Secs) [==>]	[2]	
Comments: Exposure with FP-POS=4, second orbit total count rate 360/sec S/N(orbit)~4.9, S/N(total)~8.1											
4	SDSSJ150556.60+532616.0-3.4 (COS.sp.202300)	(3) SDSSJ150556.60 +532616.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=3500				2586 Secs (2586 Secs) [==>]	[3]	
Comments: EExposure with FP-POS=4, third orbit total count rate 360/sec S/N(orbit)~4.9, S/N(total)~8.1											

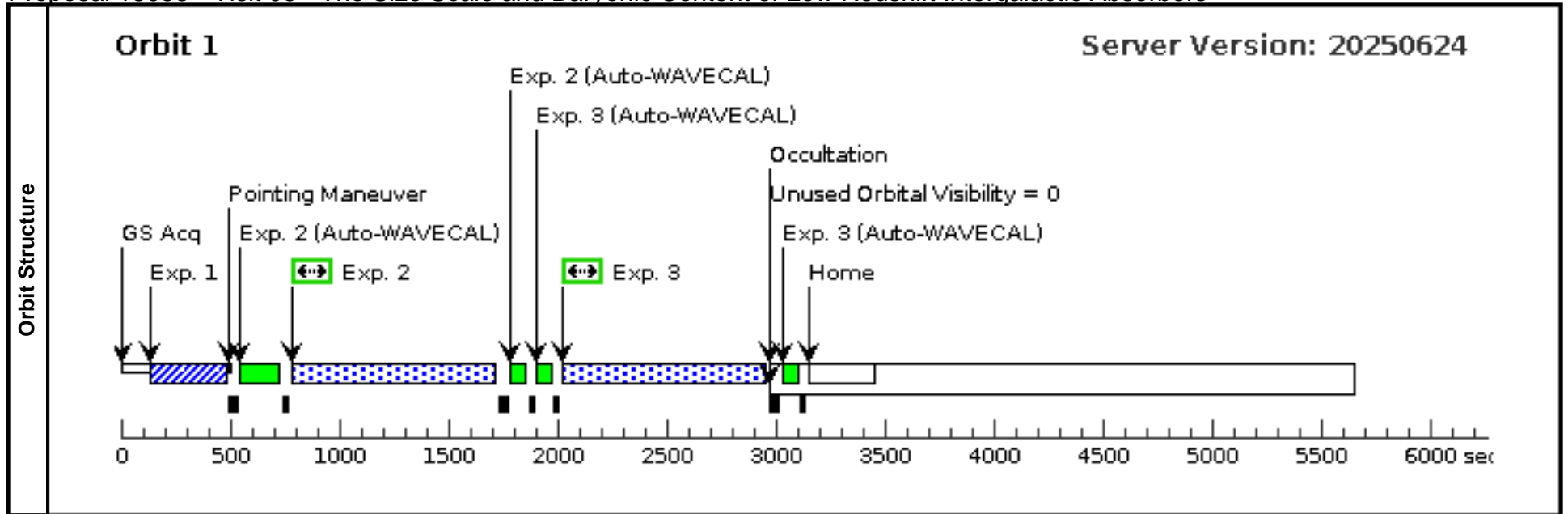




Proposal 18053 - Visit 05 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

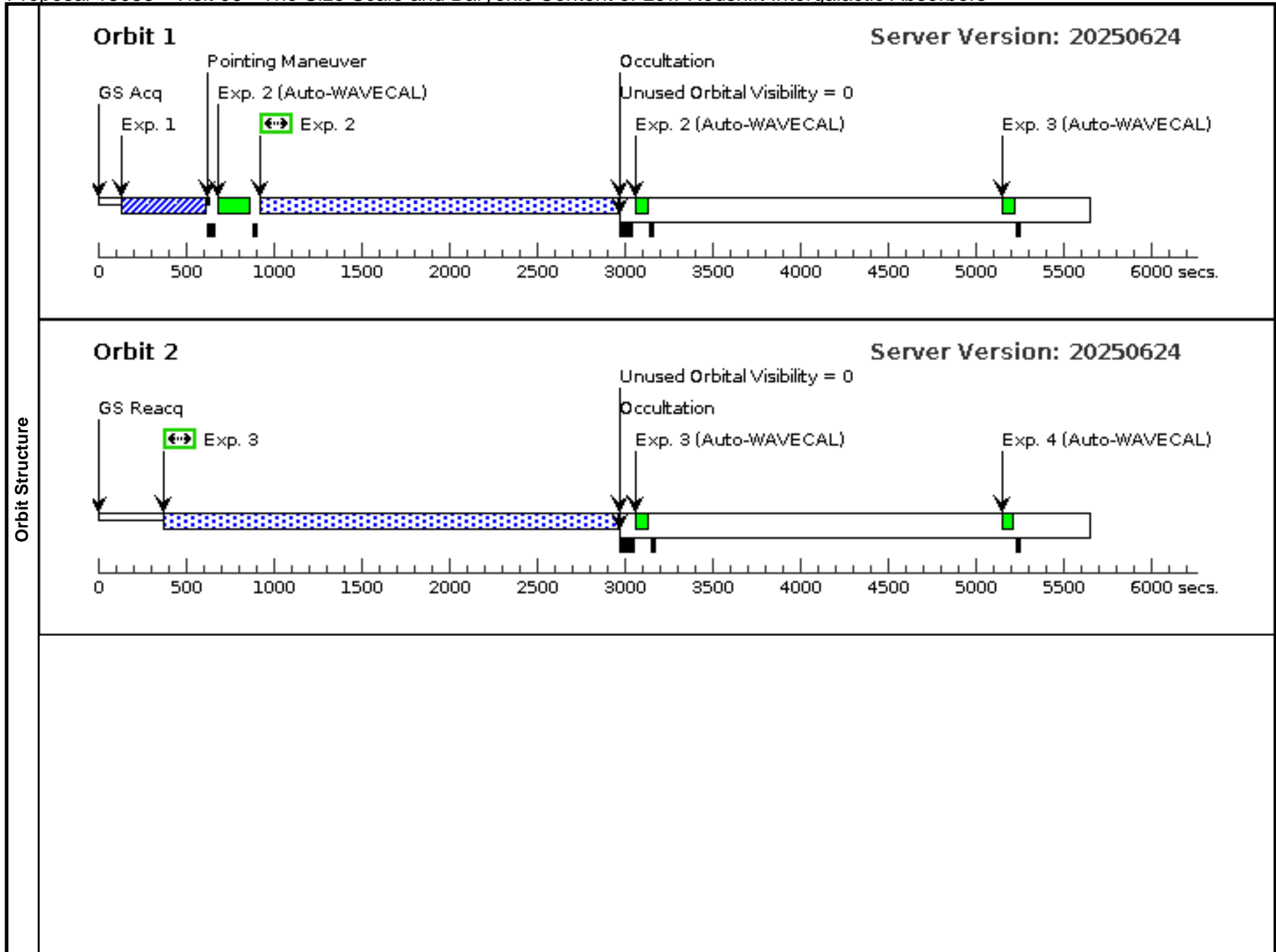
Visit	Proposal 18053, Visit 05, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 05) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	SDSSJ143017.45+11483.5	RA: 14 30 17.4546 (217.5727275d) Dec: +11 48 33.52 (11.80931d) Equinox: J2000		V=16.6+/-0.1 F=0.47E-14@1250; z=0.48400	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QUASAR] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSSJ143017.45+114833.5-ACQ (COS.ta.202224)	(4) SDSSJ143017.45 +114833.5	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				19 Secs (19 Secs) [==>]	[1]
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.47E-14 Count rate 48/sec									
	2	SDSSJ143017.45+114833.5-1.3 (COS.sp.2022530)	(4) SDSSJ143017.45 +114833.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=3500				882 Secs (882 Secs) [==>]
Comments: Exposure with FP-POS=3, first half of orbit total count rate 437/sec S/N(orbit)~5.1, S/N(total)~7.6										
3	SDSSJ143017.45+114833.5-1.4 (COS.sp.2022530)	(4) SDSSJ143017.45 +114833.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=3500				881 Secs (881 Secs) [==>]	[1]
Comments: Exposure with FP-POS=4, second half of orbit total count rate 437/sec S/N(orbit)~5.1, S/N(total)~7.6										

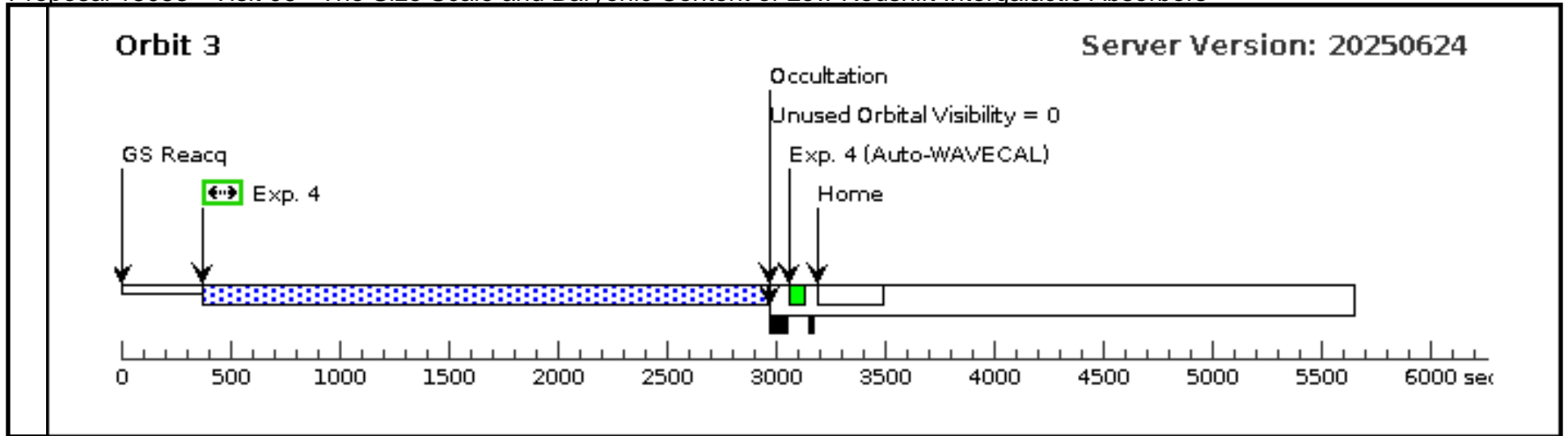


Proposal 18053 - Visit 06 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

Visit	Proposal 18053, Visit 06, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(Visit 06) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(5)	SDSSJ143019.20+114845.0	RA: 14 30 19.2690 (217.5802875d) Dec: +11 48 45.46 (11.81263d) Equinox: J2000		V=18.64+/-0.1 F=0.10E-14@1250; z=0.485765	Reference Frame: ICRS					
Comments: Category=GALAXY Description=[QUASAR] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	SDSSJ143019.20+114845.0-ACQ (COS.ta.202225)	(5) SDSSJ143019.20 +114845.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				88 Secs (88 Secs) [==>]	[1]	
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.10E-14 Count rate 10/sec										
	2	SDSSJ143019.20+114845.0-1.1.3 (COS.sp.2022535)	(5) SDSSJ143019.20 +114845.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=3500				1988 Secs (1988 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 349/sec S/N(orbit)~3.4, S/N(total)~7.2										
3	SDSSJ143019.20+114845.0-1.2.4 (COS.sp.2022535)	(5) SDSSJ143019.20 +114845.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=3500				2534 Secs (2534 Secs) [==>]	[2]	
Comments: Exposure with FP-POS=4, second orbit total count rate 349/sec S/N(orbit)~3.8, S/N(total)~7.2											
4	SDSSJ143019.20+114845.0-1.3.4 (COS.sp.2022535)	(5) SDSSJ143019.20 +114845.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=3500				2534 Secs (2534 Secs) [==>]	[3]	
Comments: Exposure with FP-POS=4, second orbit total count rate 349/sec S/N(orbit)~3.8, S/N(total)~7.2											

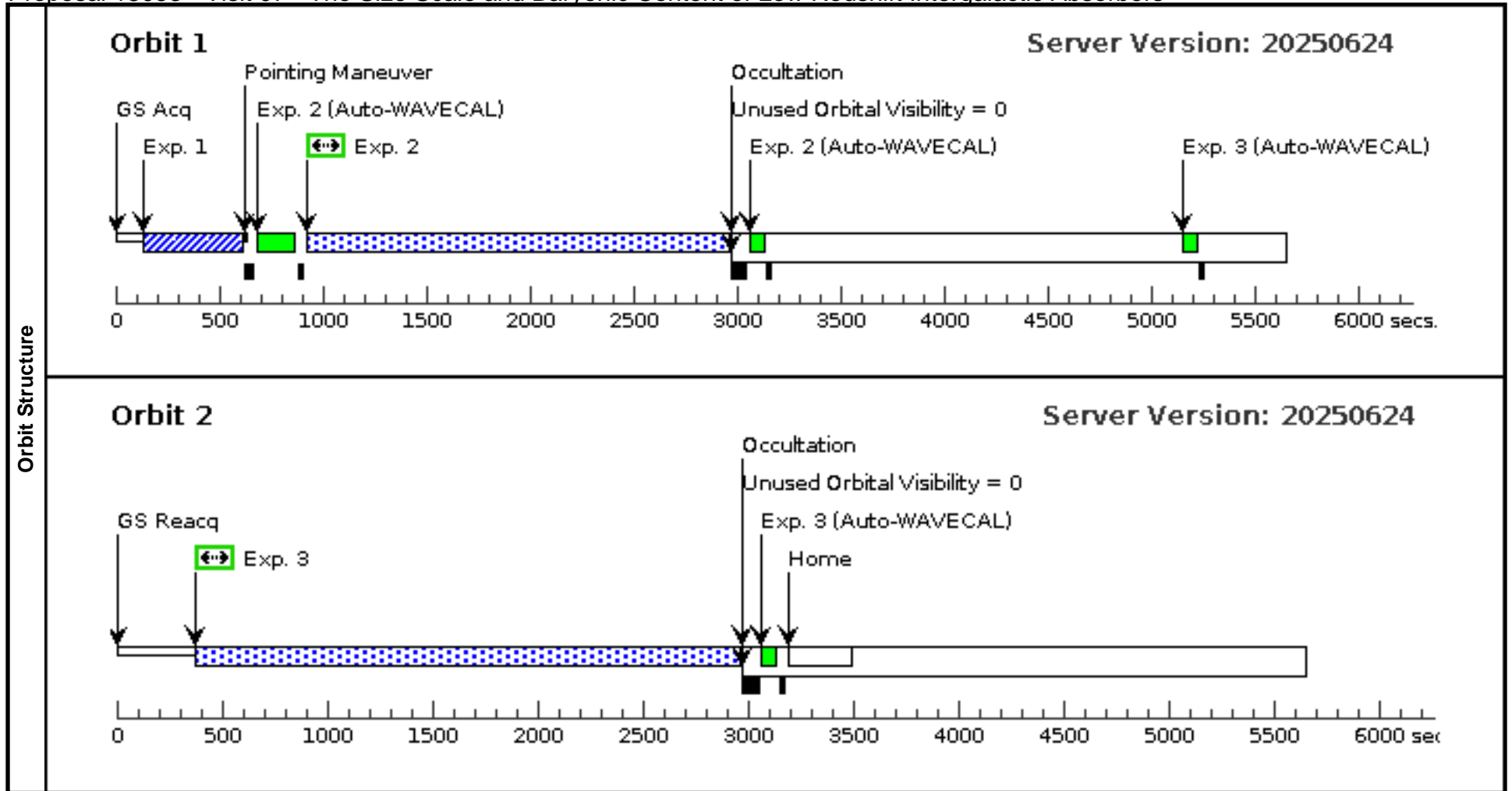




Proposal 18053 - Visit 07 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

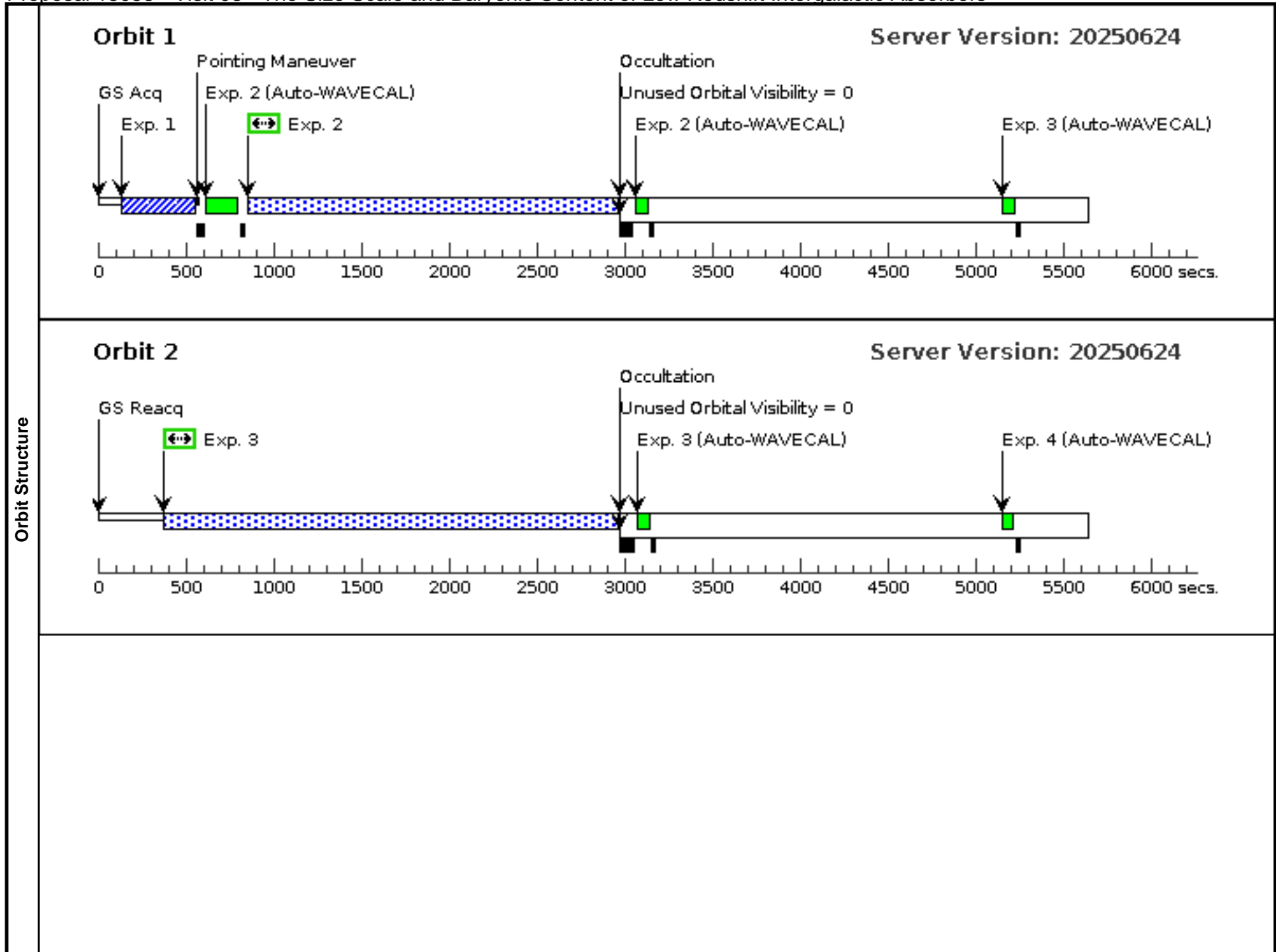
Visit	Proposal 18053, Visit 07, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(Visit 07) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous			
	(5)	SDSSJ143019.20+114845.0	RA: 14 30 19.2690 (217.5802875d) Dec: +11 48 45.46 (11.81263d) Equinox: J2000				V=18.64+/-0.1 F=0.10E-14@1250; z=0.485765	Reference Frame: ICRS			
Comments: Category=GALAXY Description=[QUASAR] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	SDSSJ143019.20+114845.0-ACQ (COS.ta.202225)	(5) SDSSJ143019.20 +114845.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				88 Secs (88 Secs) [==>]	[1]	
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.10E-14 Count rate 10/sec										
	2	SDSSJ143019.20+114845.0-2.2.3 (COS.sp.2022535)	(5) SDSSJ143019.20 +114845.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=3500				1988 Secs (1988 Secs) [==>]	[1]
Comments: Exposure with FP-POS=3, first orbit total count rate 349/sec S/N(orbit)~3.4, S/N(total)~7.2											
3	SDSSJ143019.20+114845.0-2.2.4 (COS.sp.2022535)	(5) SDSSJ143019.20 +114845.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=3500				2534 Secs (2534 Secs) [==>]	[2]	
Comments: Exposure with FP-POS=4, second orbit total count rate 349/sec S/N(orbit)~3.8, S/N(total)~7.2											

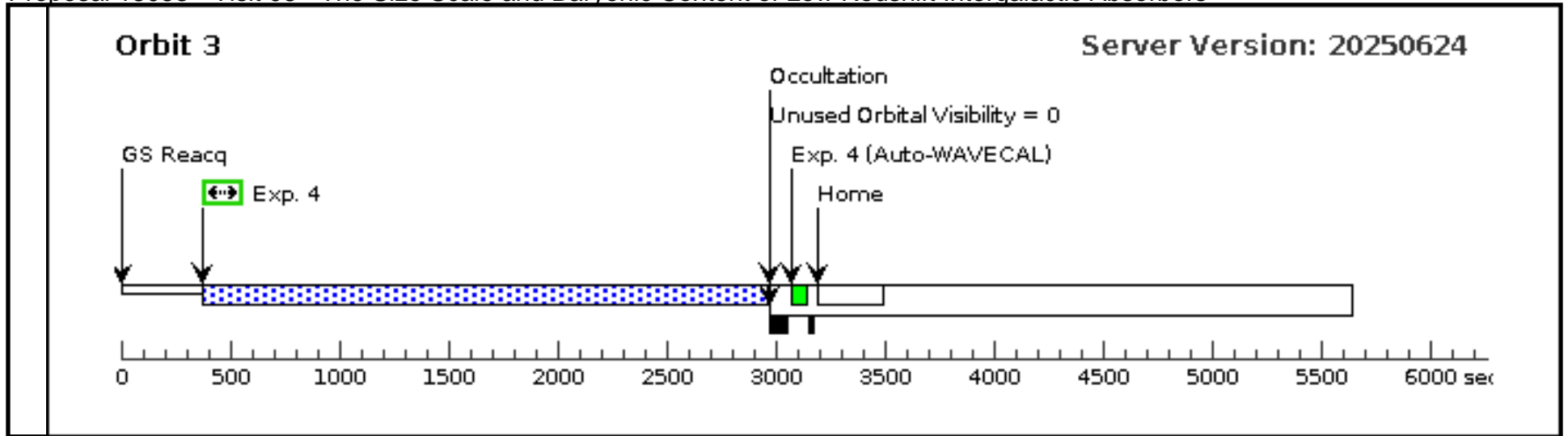


Proposal 18053 - Visit 08 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

Visit	Proposal 18053, Visit 08, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(Visit 08) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(6)	RXJ1133.4+0326	RA: 11 33 26.3350 (173.3597292d) Dec: +03 26 54.37 (3.44844d) Equinox: J2000		V=19.28+/-0.1 F=0.16E-14@1250; z=0.236847	Reference Frame: ICRS					
Comments: Category=GALAXY Description=[QUASAR] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	RX_J1133.4 +0326-ACQ (COS.ta.202 2226)	(6) RXJ1133.4+0326	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				55 Secs (55 Secs) [==>]	[1]	
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.16E-14 Count rate 16/sec										
	2	RX_J1133.4 +0326-1.3 (COS.sp.202 2538)	(6) RXJ1133.4+0326	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00			2059 Secs (2059 Secs) [==>]	[1]	
	Comments: Exposure with FP-POS=3, first orbit total count rate 363/sec S/N(orbit)~4.5, S/N(total)~8.4										
3	RX_J1133.4 +0326-2.4 (COS.sp.202 2538)	(6) RXJ1133.4+0326	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00			2539 Secs (2539 Secs) [==>]	[2]		
Comments: Exposure with FP-POS=4, second orbit total count rate 363/sec S/N(orbit)~5.0, S/N(total)~8.4											
4	RX_J1133.4 +0326-3.4 (COS.sp.202 2538)	(6) RXJ1133.4+0326	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00			2539 Secs (2539 Secs) [==>]	[3]		
Comments: Exposure with FP-POS=4, second orbit total count rate 363/sec S/N(orbit)~5.0, S/N(total)~8.4											

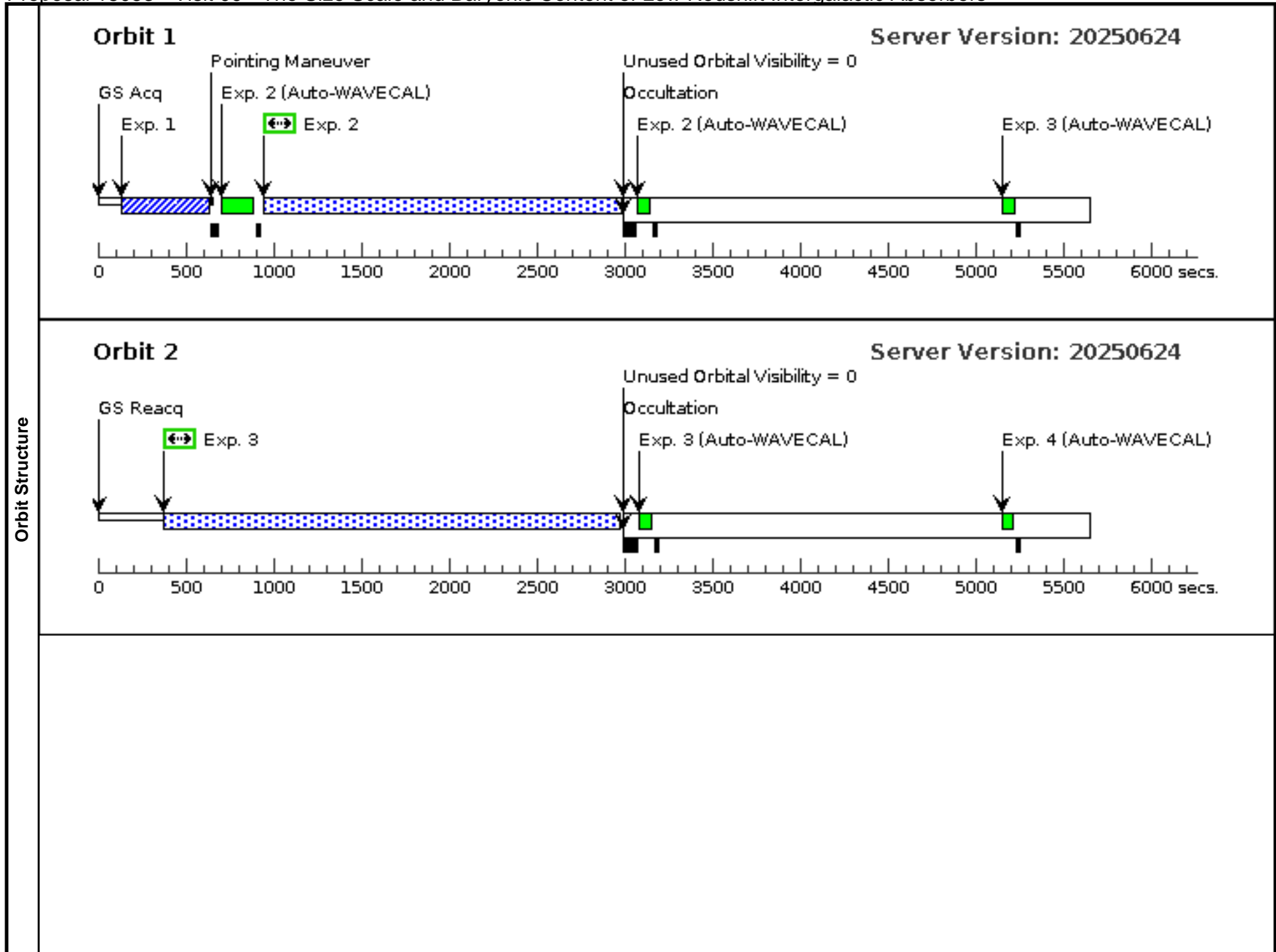


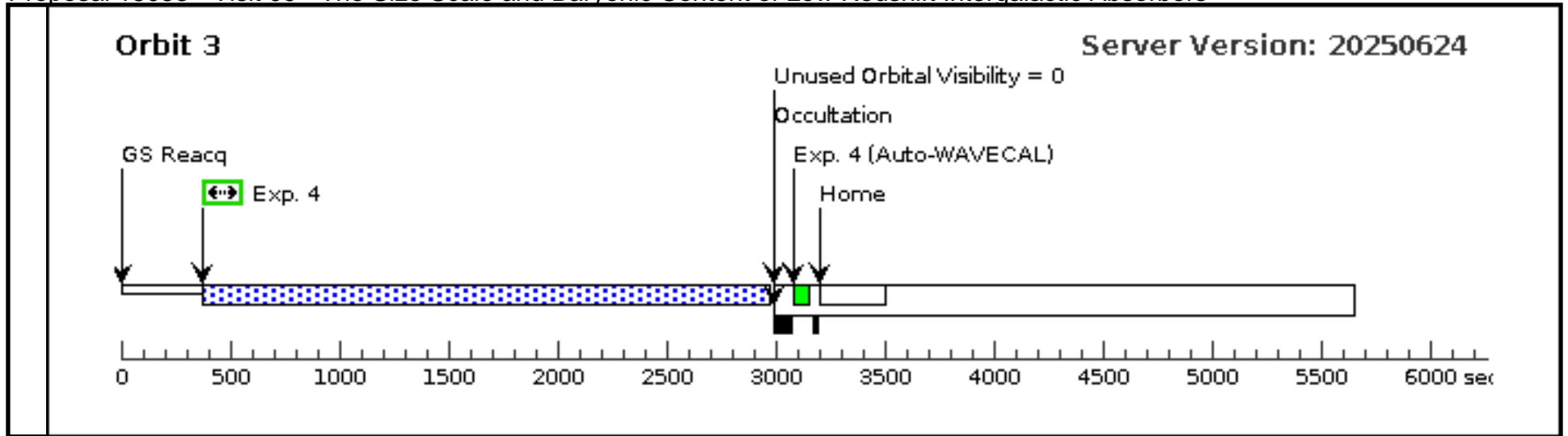


Proposal 18053 - Visit 09 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

Visit	Proposal 18053, Visit 09, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(Visit 09) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(7)	PKS0340-37	RA: 03 42 5.4106 (55.5225442d) Dec: -37 03 21.62 (-37.05601d) Equinox: J2000		V=18.60+/-0.1 F=0.09E-14@1250; z=0.284400	Reference Frame: ICRS					
Comments: Category=GALAXY Description=[QUASAR] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	PKS0340-37 (7) PKS0340-37 -ACQ (COS.ta.202 2229)	(7) PKS0340-37	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				98 Secs (98 Secs) [==>]	[1]	
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.09E-14 Count rate 9/sec										
	2	PKS0340-37 (7) PKS0340-37 -1.1.3 (COS.sp.202 2541)	(7) PKS0340-37	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00				1986 Secs (1986 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 346/sec S/N(orbit)~3.2, S/N(total)~7.7										
3	PKS0340-37 (7) PKS0340-37 -1.2.4 (COS.sp.202 2541)	(7) PKS0340-37	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00				2552 Secs (2552 Secs) [==>]	[2]	
Comments: Exposure with FP-POS=4, second orbit total count rate 346/sec S/N(orbit)~3.6, S/N(total)~7.7											
4	PKS0340-37 (7) PKS0340-37 -1.3.4 (COS.sp.202 2541)	(7) PKS0340-37	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00				2552 Secs (2552 Secs) [==>]	[3]	
Comments: Exposure with FP-POS=4, third orbit total count rate 346/sec S/N(orbit)~3.6, S/N(total)~7.7											

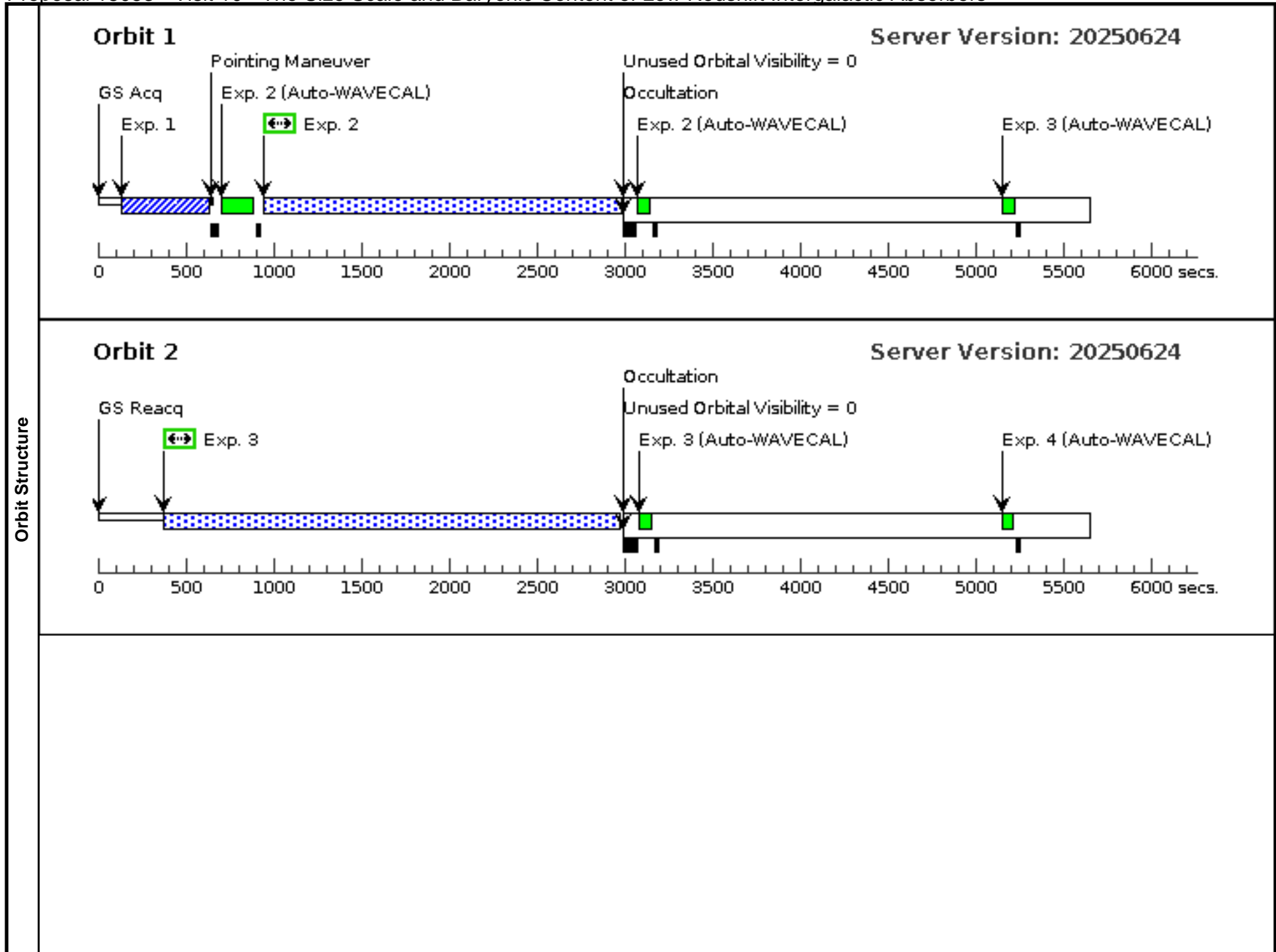


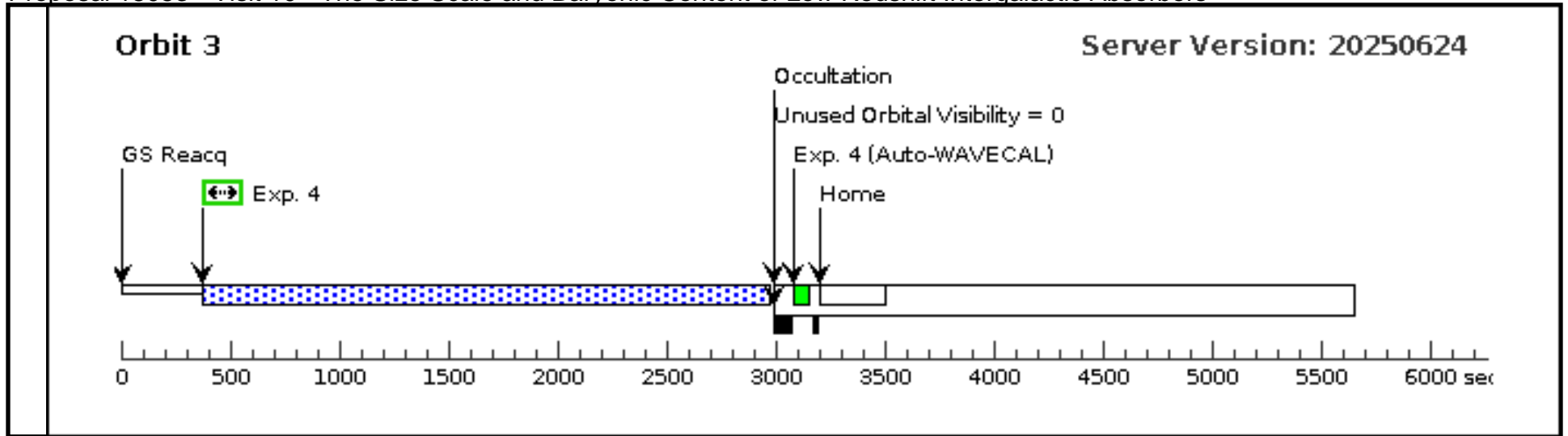


Proposal 18053 - Visit 10 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

Visit	Proposal 18053, Visit 10, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(Visit 10) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous			
	(7)	PKS0340-37	RA: 03 42 5.4106 (55.5225442d) Dec: -37 03 21.62 (-37.05601d) Equinox: J2000				V=18.60+/-0.1 F=0.09E-14@1250; z=0.284400	Reference Frame: ICRS			
Comments: Category=GALAXY Description=[QUASAR] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	PKS0340-37 -ACQ (COS.ta.202 2229)	(7) PKS0340-37	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				98 Secs (98 Secs) [==>]	[1]	
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.09E-14 Count rate 9/sec										
	2	PKS0340-37 -2.1.3 (COS.sp.202 2541)	(7) PKS0340-37	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00				1986 Secs (1986 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 346/sec S/N(orbit)~3.2, S/N(total)~7.7										
3	PKS0340-37 -2.2.4 (COS.sp.202 2541)	(7) PKS0340-37	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00				2552 Secs (2552 Secs) [==>]	[2]	
Comments: Exposure with FP-POS=4, second orbit total count rate 346/sec S/N(orbit)~3.6, S/N(total)~7.7											
4	PKS0340-37 -2.3.4 (COS.sp.202 2541)	(7) PKS0340-37	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00				2552 Secs (2552 Secs) [==>]	[3]	
Comments: Exposure with FP-POS=4, second orbit total count rate 346/sec S/N(orbit)~3.6, S/N(total)~7.7											

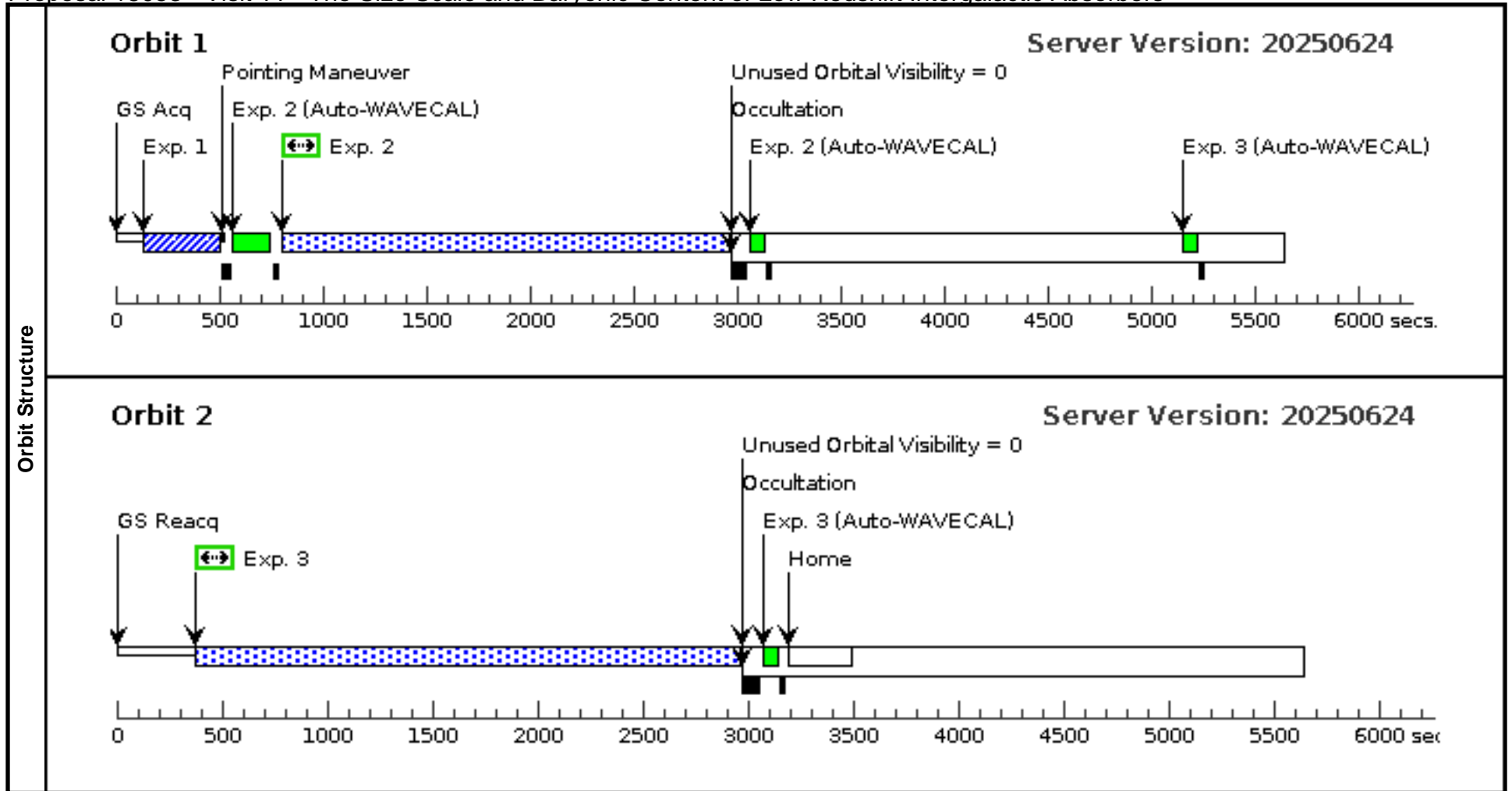




Proposal 18053 - Visit 11 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

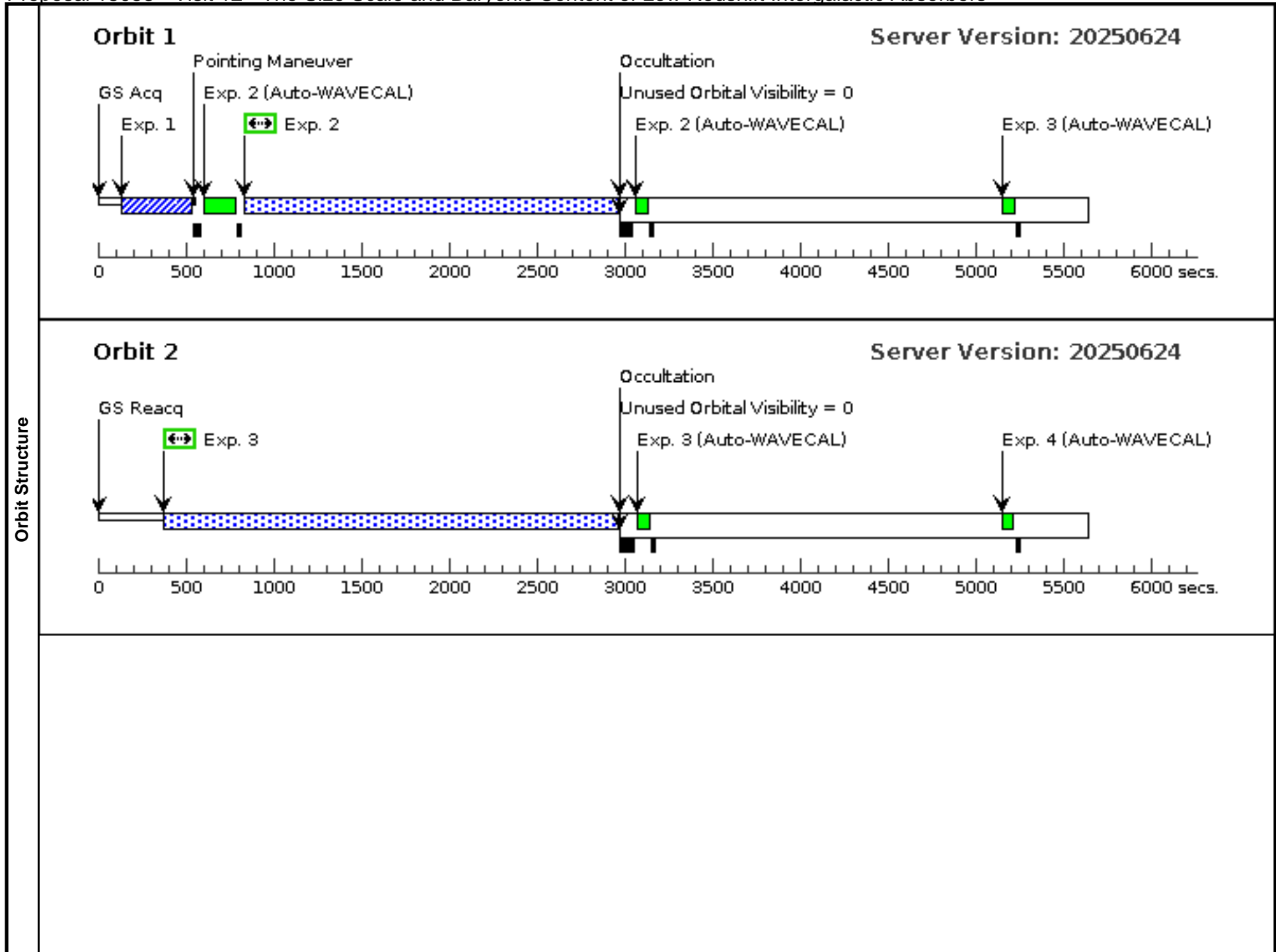
Visit	Proposal 18053, Visit 11, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 11) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	MRK1144	RA: 00 42 37.1640 (10.6548500d) Dec: +03 14 22.43 (3.23956d) Equinox: J2000		V=17.00+/-0.1 F=0.29E-14@1250; z=0.036700	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[SEYFERT] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	MRK1144- ACQ (COS.ta.202 2230)	(8) MRK1144	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				30 Secs (30 Secs) [==>]	[1]
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.29E-14 Count rate 30/sec									
	2	MRK1144-1 .3 (COS.sp.202 2544)	(8) MRK1144	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00				2109 Secs (2109 Secs) [==>]
Comments: Exposure with FP-POS=3, first orbit total count rate 394/sec S/N(orbit)~6.2, S/N(total)~9.3										
3	MRK1144-2 .4 (COS.sp.202 2544)	(8) MRK1144	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00				2539 Secs (2539 Secs) [==>]	[2]
Comments: Exposure with FP-POS=4, second orbit total count rate 394/sec S/N(orbit)~6.8, S/N(total)~9.3										

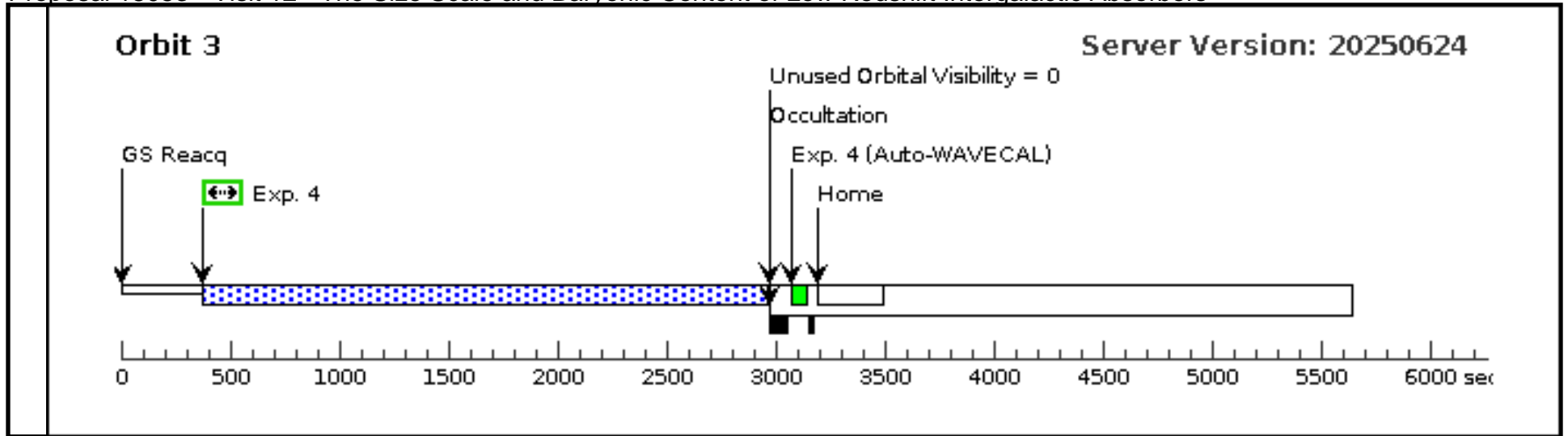


Proposal 18053 - Visit 12 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

Visit	Proposal 18053, Visit 12, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(Visit 12) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(9)	MRK1143	RA: 00 42 33.9217 (10.6413404d) Dec: +03 15 25.16 (3.25699d) Equinox: J2000		V=15.00+/-0.1 F=0.19E-14@1250; z=0.037309	Reference Frame: ICRS					
Comments: Category=GALAXY Description=[SEYFERT] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	MRK1143- ACQ (COS.ta.202 2233)	(9) MRK1143	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				46 Secs (46 Secs) [==>]	[1]	
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.19E-14 Count rate 20/sec										
	2	MRK1143-1 .3 (COS.sp.202 2547)	(9) MRK1143	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00				2077 Secs (2077 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 370/sec S/N(orbit)~4.9, S/N(total)~9.2										
3	MRK1143-2 .4 (COS.sp.202 2547)	(9) MRK1143	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00				2539 Secs (2539 Secs) [==>]	[2]	
Comments: Exposure with FP-POS=4, second orbit total count rate 370/sec S/N(orbit)~5.5, S/N(total)~9.2											
4	MRK1143-3 .4 (COS.sp.202 2547)	(9) MRK1143	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00				2539 Secs (2539 Secs) [==>]	[3]	
Comments: Exposure with FP-POS=4, third orbit total count rate 370/sec S/N(orbit)~5.5 S/N(total)~9.2											

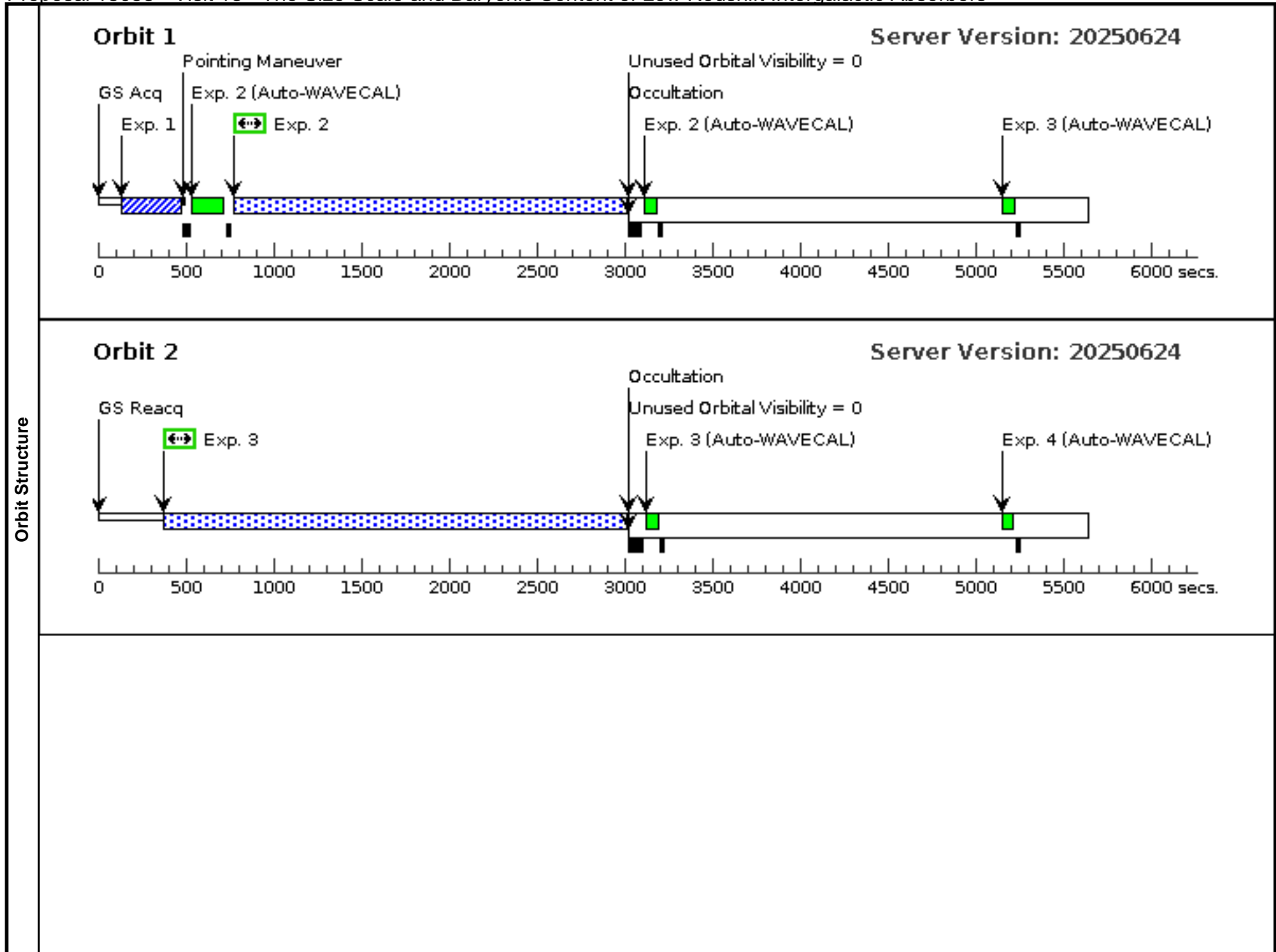


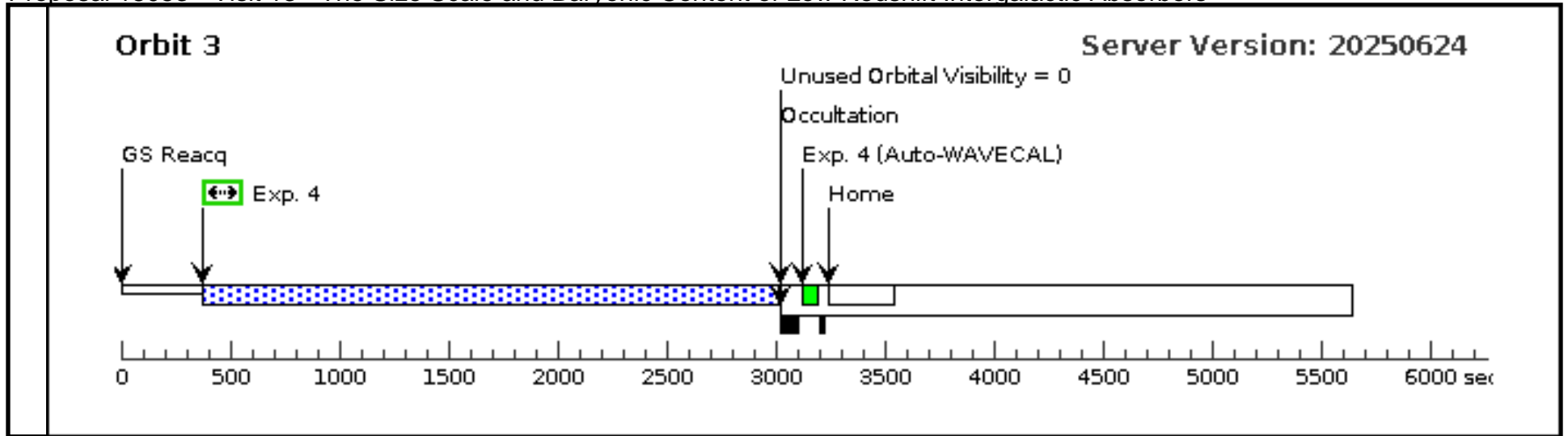


Proposal 18053 - Visit 13 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

Visit	Proposal 18053, Visit 13, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(Visit 13) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(10)	SDSSJ111938.80+520648.0	RA: 11 19 38.7520 (169.9114667d) Dec: +52 06 48.77 (52.11355d) Equinox: J2000		V=19.07+/-0.1 F=0.06E-14@1250; z=0.211347	Reference Frame: ICRS					
Comments: Category=GALAXY Description=[QUASAR] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	SDSSJ1119 38.80+5206 48.0-ACQ (COS.ta.202 2255)	(10) SDSSJ111938.8 0+520648.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				15 Secs (15 Secs) [==>]	[1]	
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.06E-14 Count rate 124/sec with MIRRORA, exposure time too long with MIRRORB Nominal exposure time 7 sec, doubled to 15 sec										
	2	SDSSJ1119 38.80+5206 48.0-1.1.3 (COS.sp.202 2550)	(10) SDSSJ111938.8 0+520648.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00				2186 Secs (2186 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=3, third orbit total count rate 339/sec S/N(orbit)~2.6, S/N(total)~7.3										
3	SDSSJ1119 38.80+5206 48.0-1.2.4 (COS.sp.202 2550)	(10) SDSSJ111938.8 0+520648.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00				2586 Secs (2586 Secs) [==>]	[2]	
Comments: Exposure with FP-POS=4, second orbit total count rate 339/sec S/N(orbit)~2.9, S/N(total)~7.9											
4	SDSSJ1119 38.80+5206 48.0-1.3.4 (COS.sp.202 2550)	(10) SDSSJ111938.8 0+520648.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00				2586 Secs (2586 Secs) [==>]	[3]	
Comments: Exposure with FP-POS=4, third orbit total count rate 339/sec S/N(orbit)~2.9, S/N(total)~7.3											

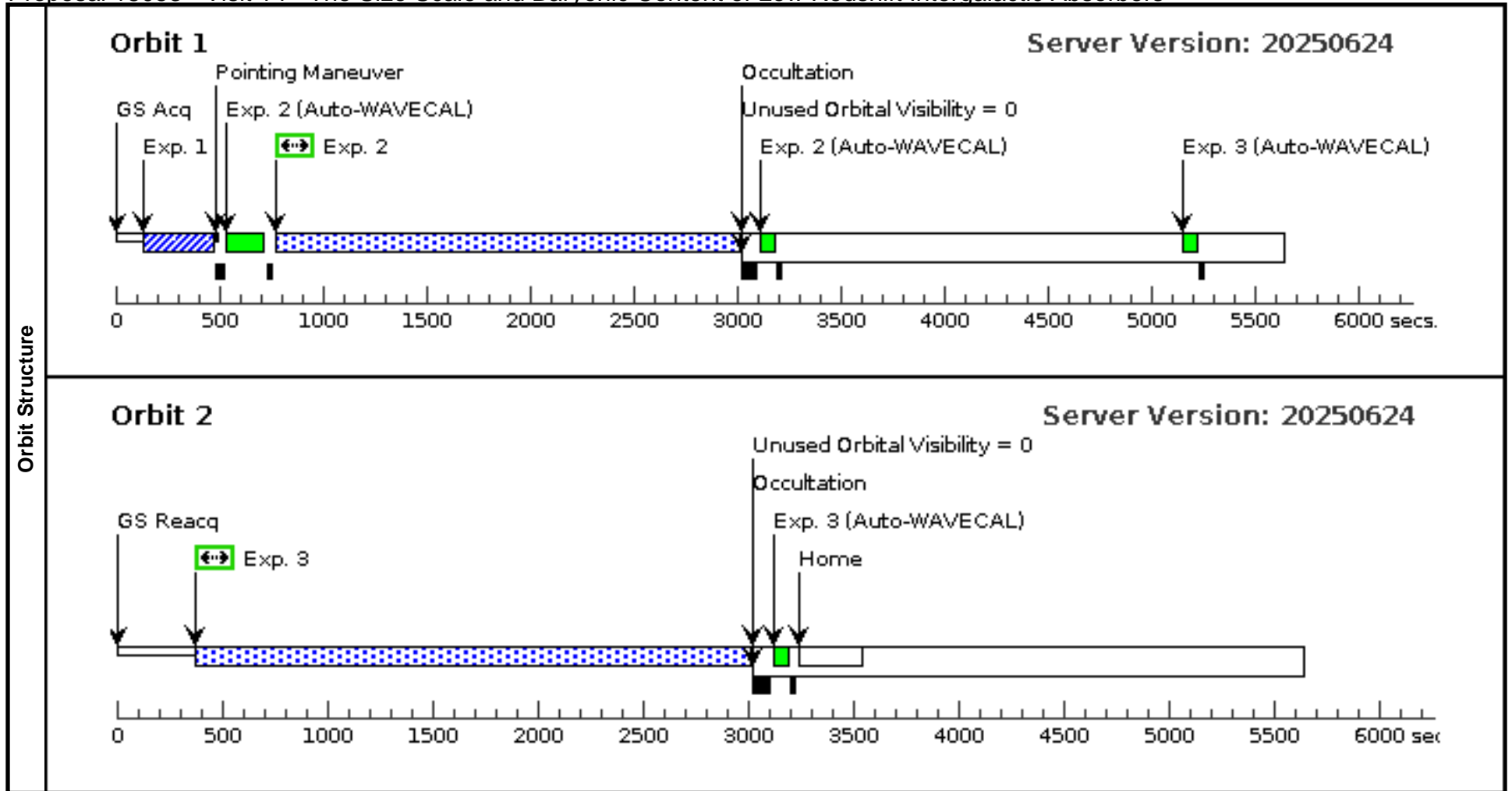




Proposal 18053 - Visit 14 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

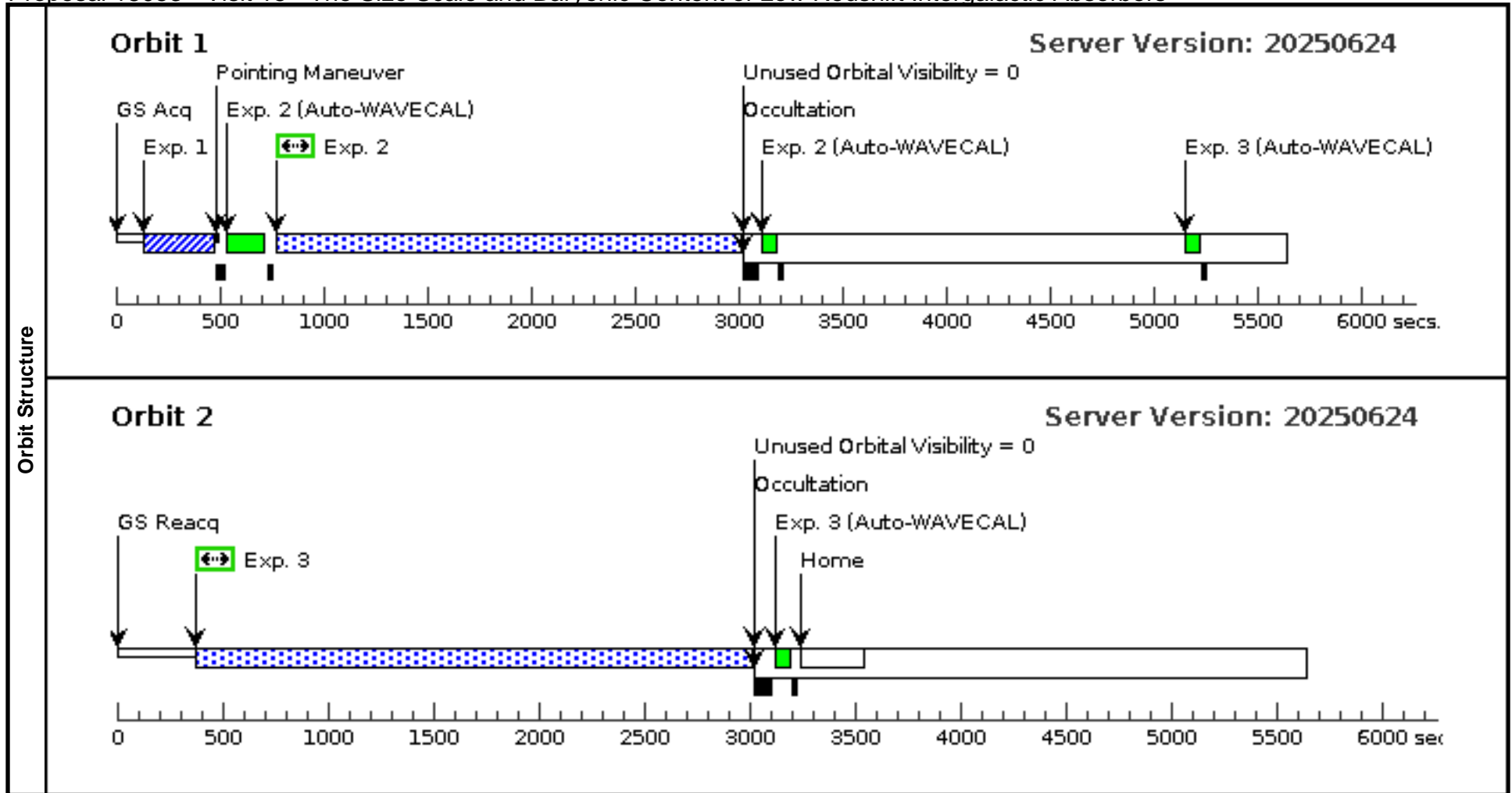
Visit	Proposal 18053, Visit 14, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 14) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	SDSSJ111938.80+520648.0	RA: 11 19 38.7520 (169.9114667d) Dec: +52 06 48.77 (52.11355d) Equinox: J2000		V=19.07+/-0.1 F=0.06E-14@1250; z=0.211347	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QUASAR] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSSJ111938.80+520648.0-ACQ (COS.ta.202 2255)	(10) SDSSJ111938.8 0+520648.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				15 Secs (15 Secs) [==>]	[1]
	Comments: NUV acquisition exposure COS ETC result for S/N=40; F=0.06E-14 Count rate 124/sec with MIRRORA, exposure time oto long with MIRRORB									
	2	SDSSJ111938.80+520648.0-2.1.3 (COS.sp.202 2550)	(10) SDSSJ111938.8 0+520648.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=3500				2186 Secs (2186 Secs) [==>]
Comments: Exposure with FP-POS=3, third orbit total count rate 339/sec S/N(orbit)~2.6, S/N(total)~7.3										
3	SDSSJ111938.80+520648.0-2.2.4 (COS.sp.202 2550)	(10) SDSSJ111938.8 0+520648.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=3500				2586 Secs (2586 Secs) [==>]	[2]
Comments: Exposure with FP-POS=4, second orbit total count rate 339/sec S/N(orbit)~2.9, S/N(total)~7.9										



Proposal 18053 - Visit 15 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

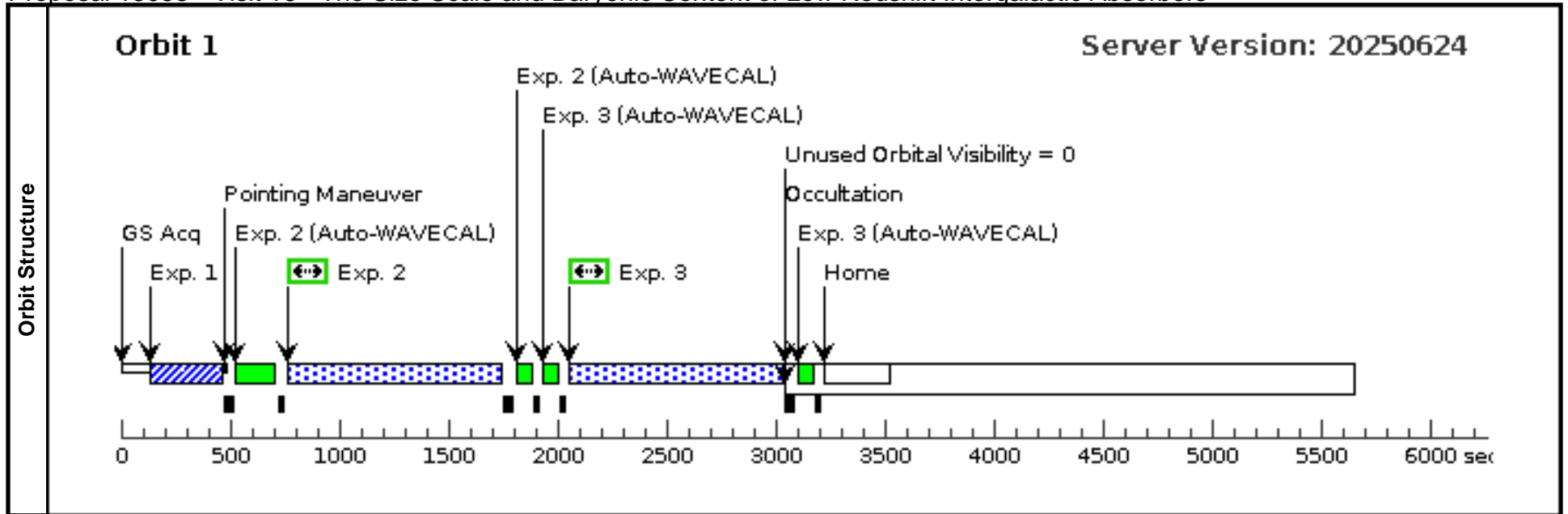
Visit	Proposal 18053, Visit 15, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 15) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	SDSSJ111938.80+520648.0	RA: 11 19 38.7520 (169.9114667d) Dec: +52 06 48.77 (52.11355d) Equinox: J2000		V=19.07+/-0.1 F=0.06E-14@1250; z=0.211347	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QUASAR] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSSJ111938.80+520648.0-ACQ (COS.ta.202 2255)	(10) SDSSJ111938.8 0+520648.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				15 Secs (15 Secs) [==>]	[1]
	Comments: NUV acquisition exposure COS ETC result for S/N=40; F=0.06E-14 Count rate 124/sec with MIRRORA, exposure time oto long with MIRRORB									
	2	SDSSJ111938.80+520648.0-2.1.3 (COS.sp.202 2547)	(10) SDSSJ111938.8 0+520648.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00				2186 Secs (2186 Secs) [==>]
Comments: Exposure with FP-POS=3, third orbit total count rate 339/sec S/N(orbit)~2.6, S/N(total)~7.3										
3	SDSSJ111938.80+520648.0-2.2.4 (COS.sp.202 2547)	(10) SDSSJ111938.8 0+520648.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00				2586 Secs (2586 Secs) [==>]	[2]
Comments: Exposure with FP-POS=4, second orbit total count rate 339/sec S/N(orbit)~2.9, S/N(total)~7.9										



Proposal 18053 - Visit 16 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

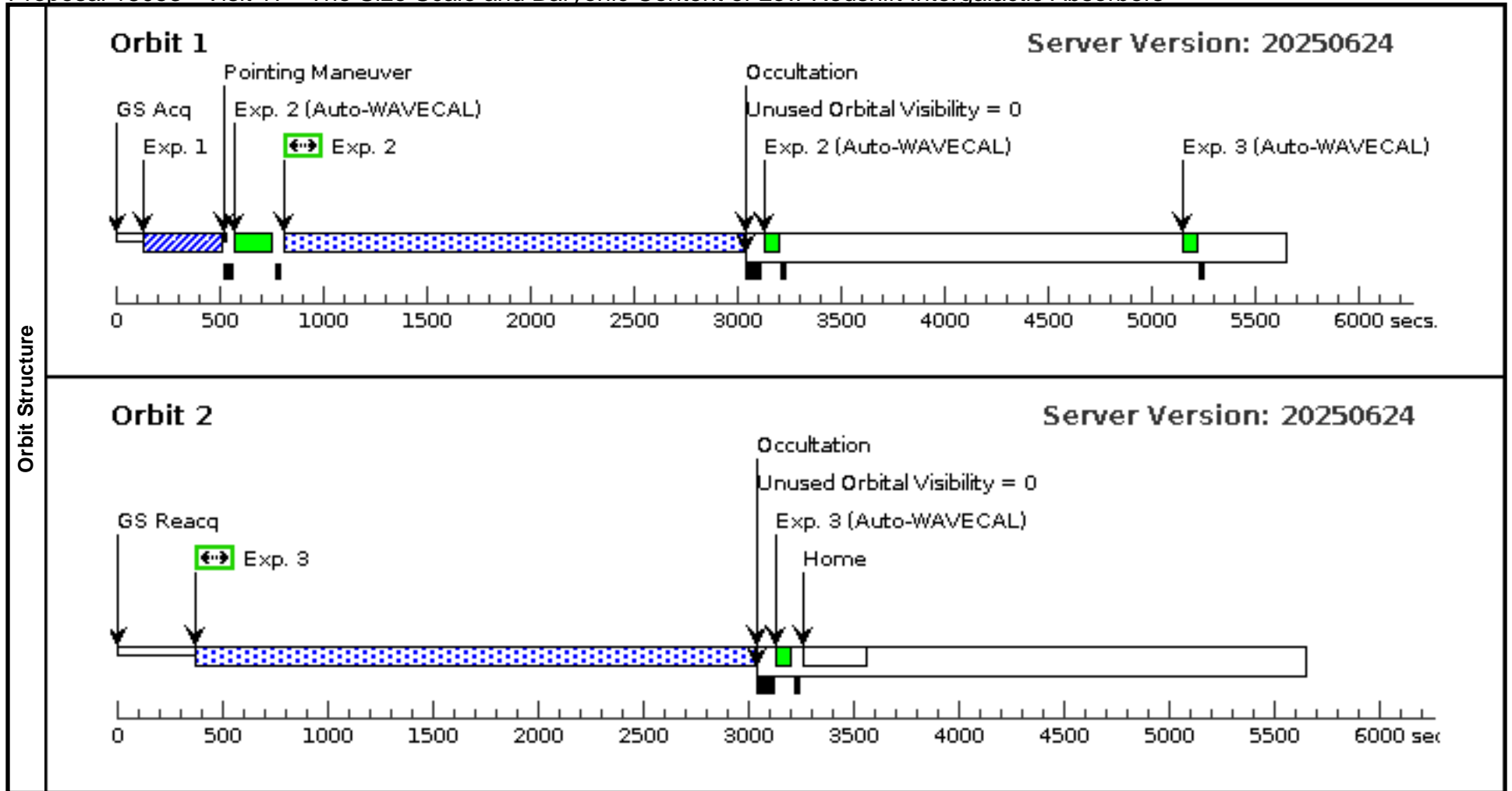
Visit	Proposal 18053, Visit 16, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 16) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	RBS1011	RA: 11 39 8.9582 (174.7873258d) Dec: +59 11 54.79 (59.19855d) Equinox: J2000		V=15.80+/-0.1 F=1.69E-14@1250; z=0.061152	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QUASAR] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	RBS1011-A CQ (COS.ta.202 2235)	(11) RBS1011	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				10 Secs (10 Secs) [==>]	[1]
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=1.69E-14 Count rate 174/sec Nominal exposure time 5 sec, doubled to 10 sec									
	2	RBS1011-1. 3 (COS.sp.202 2553)	(11) RBS1011	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00			926 Secs (926 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 728/sec S/N(orbit)~10.2, S/N(total)~14.4									
	3	RBS1011-1. 4 (COS.sp.202 2553)	(11) RBS1011	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00			925 Secs (925 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=4, second orbit total count rate 728/sec S/N(orbit)~10.2, S/N(total)~14.4									



Proposal 18053 - Visit 17 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

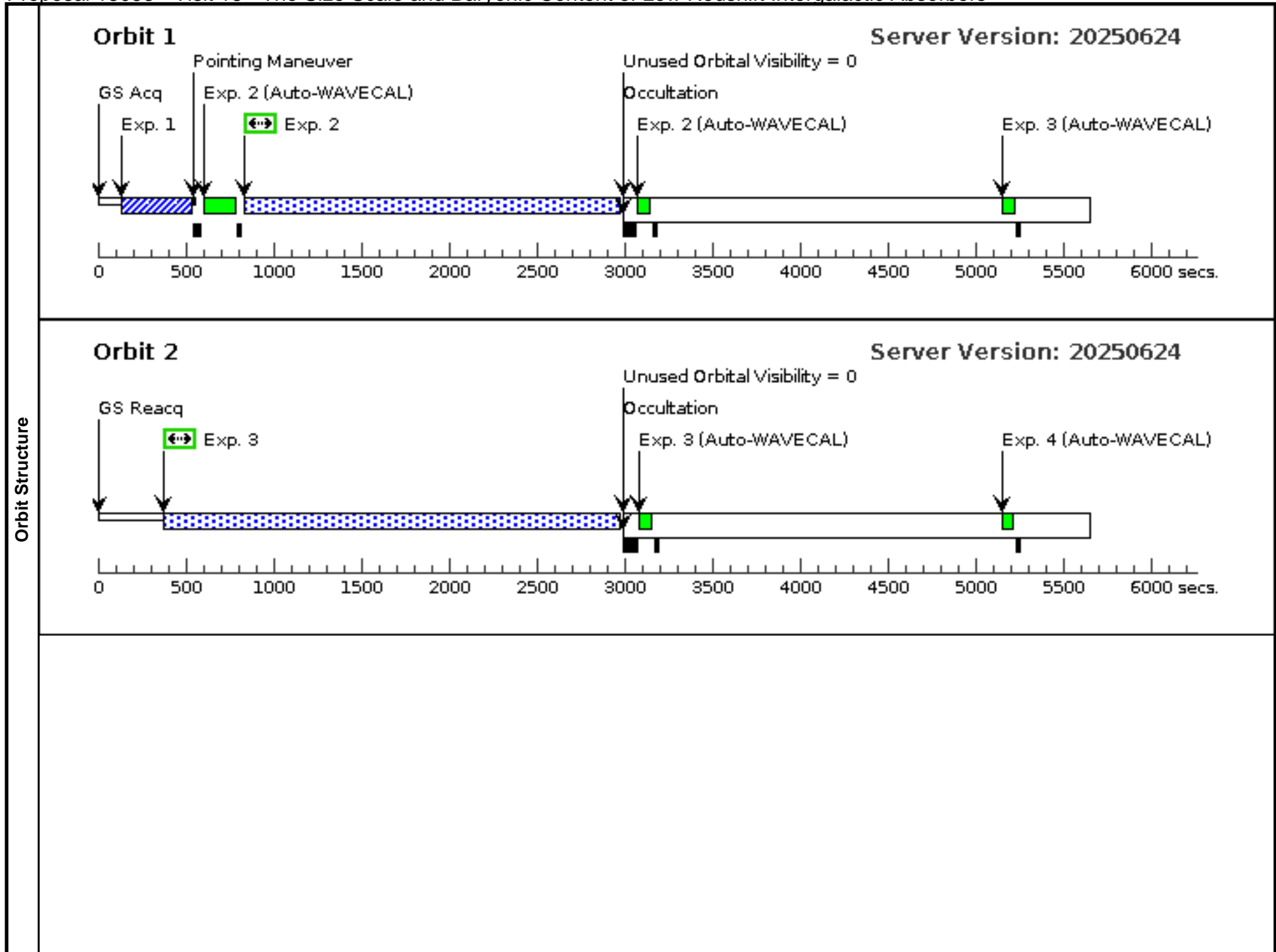
Visit	Proposal 18053, Visit 17, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 17) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	SBS1136+595	RA: 11 39 0.4926 (174.7520525d) Dec: +59 13 47.19 (59.22978d) Equinox: J2000		V=17.76+/-0.1 F=0.26E-14@1250; z=0.114627	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QUASAR] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SBS1136+5 95-ACQ (COS.ta.202 2236)	(12) SBS1136+595	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				34 Secs (34 Secs) [==>]	[1]
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.26E-14 Count rate 27/sec									
	2	SBS1136+5 95-1.3 (COS.sp.202 2556)	(12) SBS1136+595	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00				2166 Secs (2166 Secs) [==>]
Comments: Exposure with FP-POS=3, first orbit total count rate 387/sec S/N(orbit)~6.0, S/N(total)~8.6										
3	SBS1136+5 95-1.4 (COS.sp.202 2556)	(12) SBS1136+595	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00				2604 Secs (2604 Secs) [==>]	[2]
Comments: Exposure with FP-POS=4, second orbit total count rate 387/sec S/N(orbit)~6.5, S/N(total)~8.6										

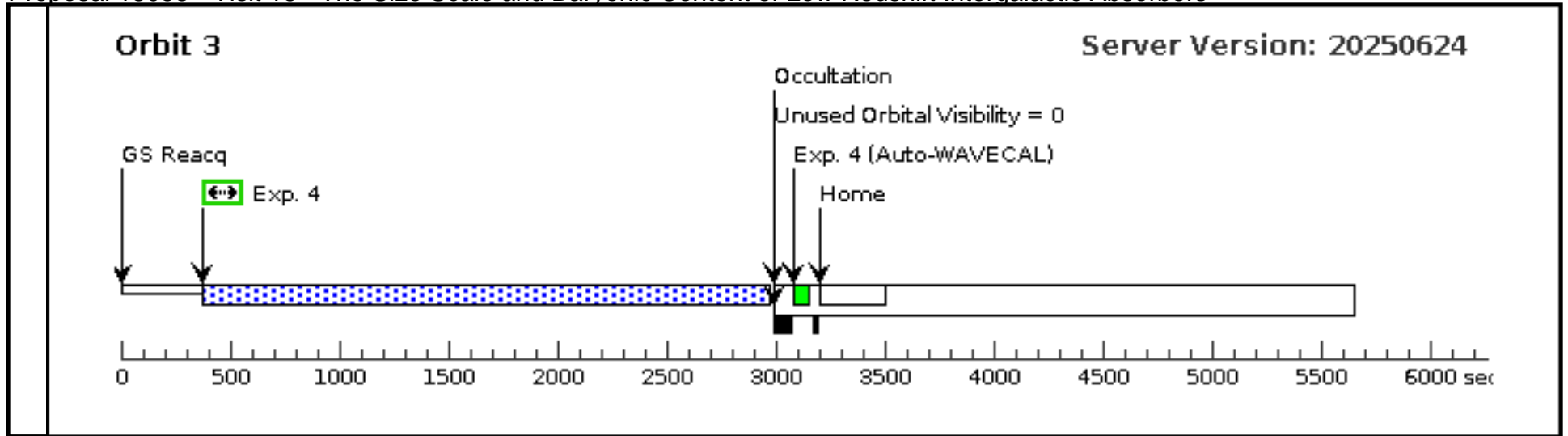


Proposal 18053 - Visit 18 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

Visit	Proposal 18053, Visit 18, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(Visit 18) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(13)	UVQSI221705.59-361946.1	RA: 22 17 5.5859 (334.2732746d) Dec: -36 19 46.12 (-36.32948d) Equinox: J2000		V=17.20+/-0.1 F=0.19E-14@1250; z=0.160738	Reference Frame: ICRS					
Comments: Category=GALAXY Description=[QUASAR] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	UVQSI2217 05.59-36194 6.1-ACQ (COS.ta.202 2237)	(13) UVQSI221705. 59-361946.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				46 Secs (46 Secs) [==>]	[1]	
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.19E-14 Count rate 20/sec										
	2	UVQSI2217 05.59-36194 6.1-1.3 (COS.sp.202 2559)	(13) UVQSI221705. 59-361946.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00				2090 Secs (2090 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=3, first orbit total count rate 370/sec S/N(orbit)~5.0, S/N(total)~9.2										
3	UVQSI2217 05.59-36194 6.1-2.4 (COS.sp.202 2559)	(13) UVQSI221705. 59-361946.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00				2552 Secs (2552 Secs) [==>]	[2]	
Comments: Exposure with FP-POS=4, second orbit total count rate 370/sec S/N(orbit)~5.5, S/N(total)~9.2											
4	UVQSI2217 05.59-36194 6.1-3.4 (COS.sp.202 2559)	(13) UVQSI221705. 59-361946.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00				2552 Secs (2552 Secs) [==>]	[3]	
Comments: Exposure with FP-POS=4, third orbit total count rate 370/sec S/N(orbit)~5.5, S/N(total)~9.2											

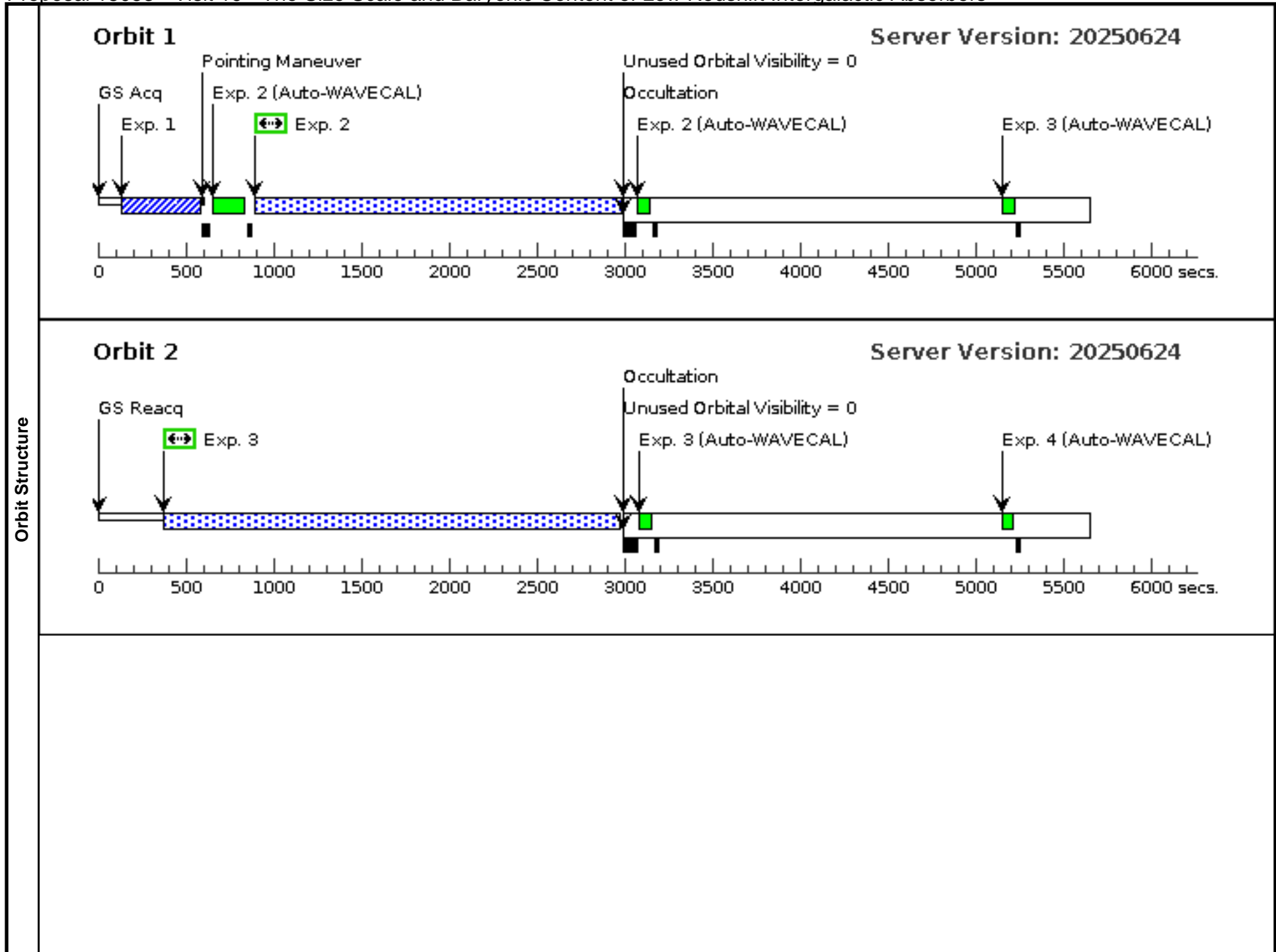


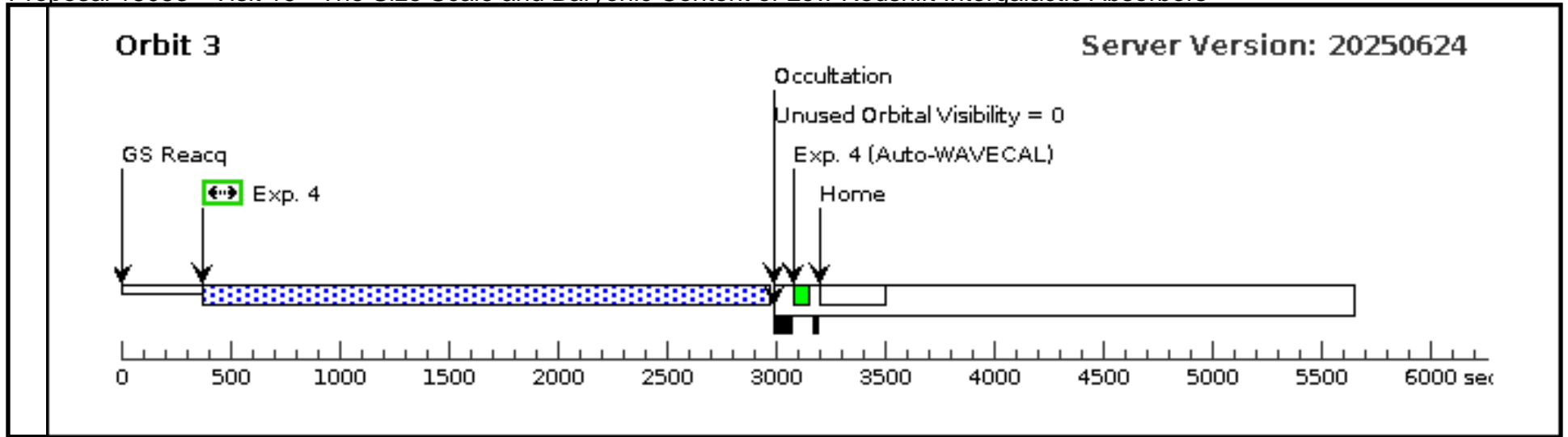


Proposal 18053 - Visit 19 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

Visit	Proposal 18053, Visit 19, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(Visit 19) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(14)	RXJ2217.1-3617	RA: 22 17 8.1172 (334.2838217d) Dec: -36 17 34.56 (-36.29293d) Equinox: J2000		V=18.00+/-0.1 F=0.12E-14@1250; z=0.148000	Reference Frame: ICRS					
Comments: Category=GALAXY Description=[QUASAR] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	RX_J2217.1-3617-ACQ 7 (COS.ta.2022238)	(14) RXJ2217.1-361	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				73 Secs (73 Secs) [==>]	[1]	
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.12E-14 Count rate 12/sec										
	2	RX_J2217.1-3617-1.1.3 7 (COS.sp.2022562)	(14) RXJ2217.1-361	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=3500			2036 Secs (2036 Secs) [==>]	[1]	
	Comments: Exposure with FP-POS=3, first orbit total count rate 353/sec S/N(orbit)~3.8, S/N(total)~8.1										
3	RX_J2217.1-3617-1.2.4 7 (COS.sp.2022562)	(14) RXJ2217.1-361	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=3500			2552 Secs (2552 Secs) [==>]	[2]		
Comments: Exposure with FP-POS=4, second orbit total count rate 353/sec S/N(orbit)~4.3, S/N(total)~8.1											
4	RX_J2217.1-3617-1.3.4 7 (COS.sp.2022562)	(14) RXJ2217.1-361	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=3500			2552 Secs (2552 Secs) [==>]	[3]		
Comments: Exposure with FP-POS=4, second orbit total count rate 353/sec S/N(orbit)~4.3, S/N(total)~8.1											

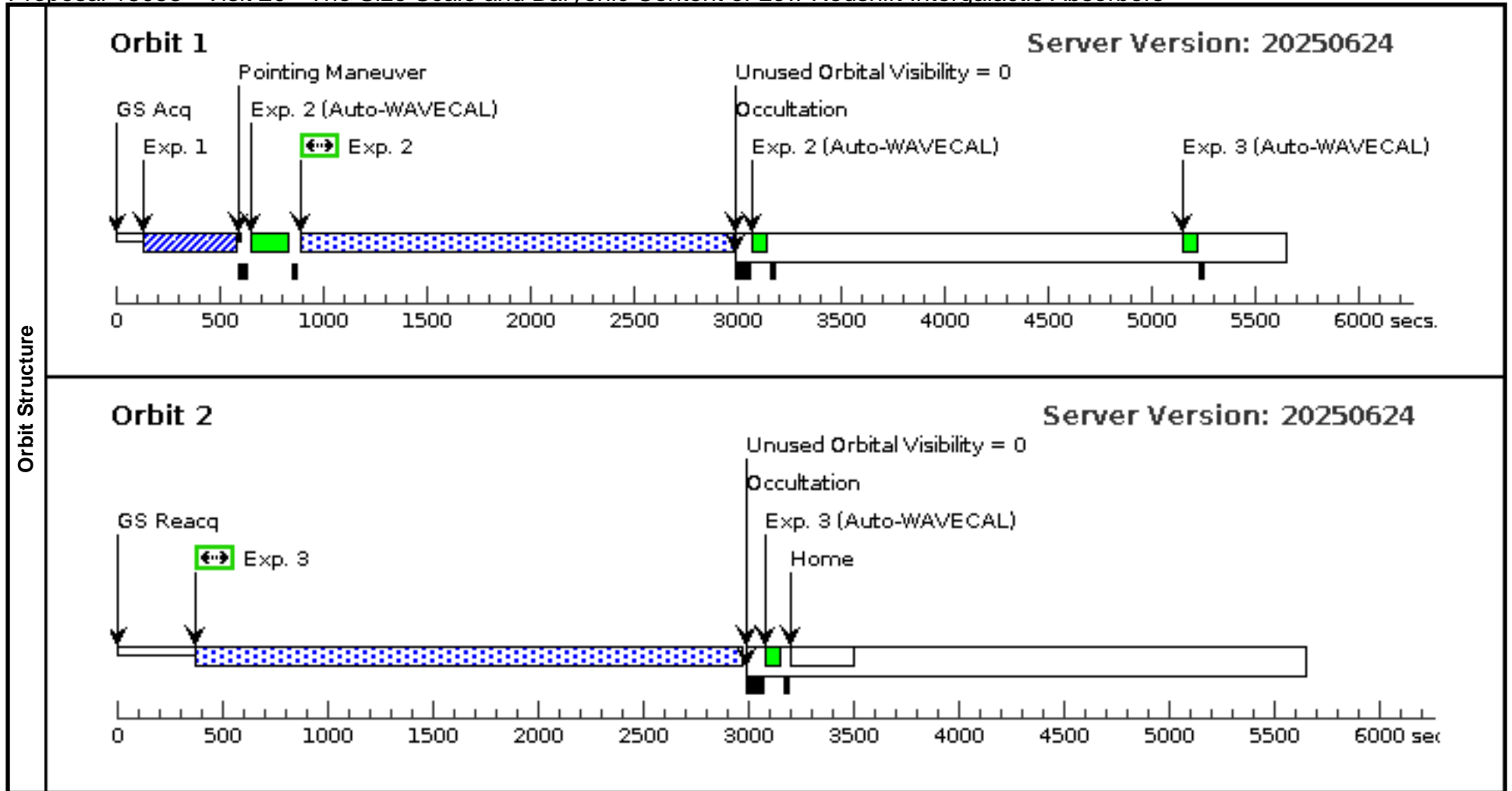




Proposal 18053 - Visit 20 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

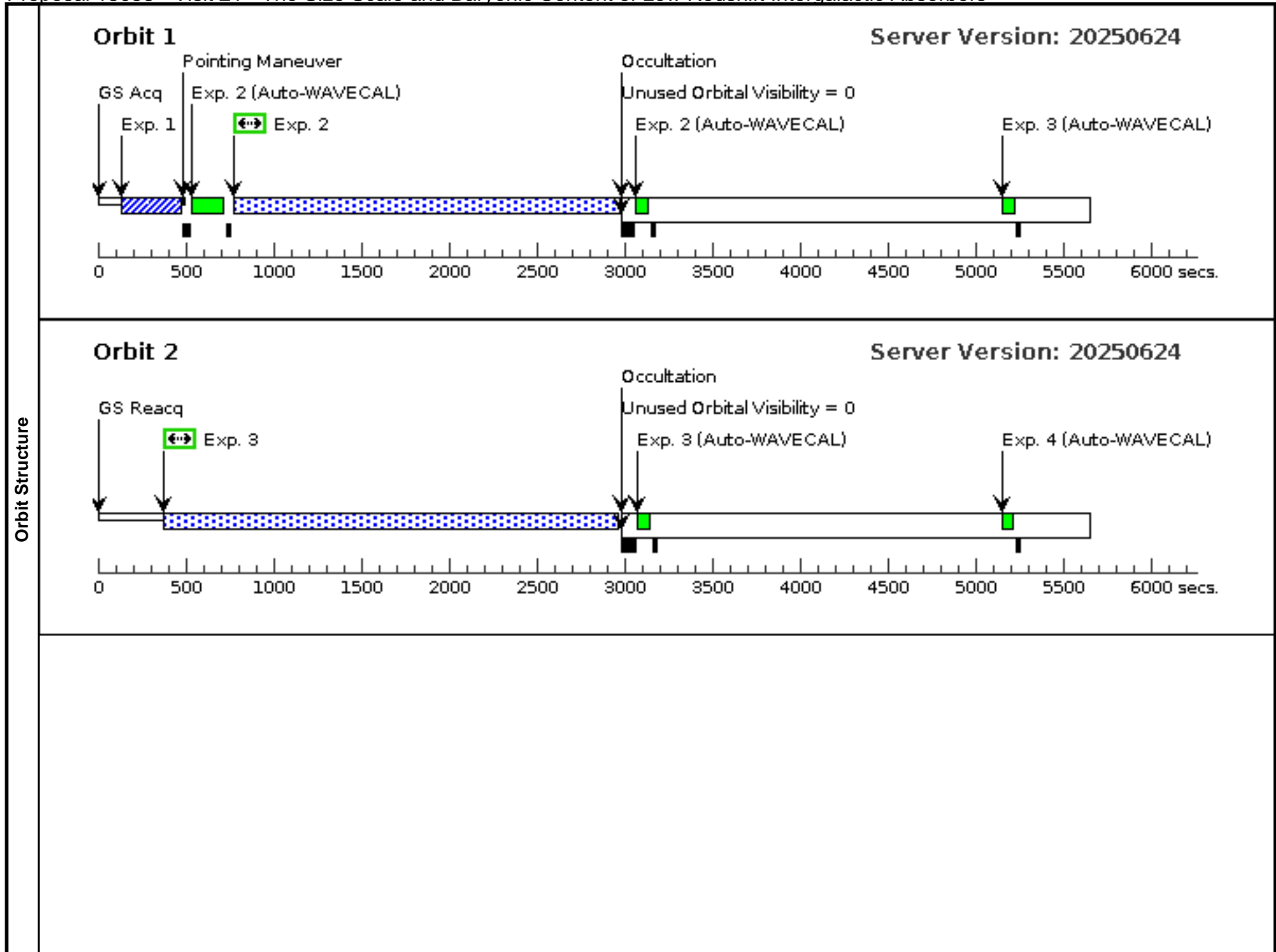
Visit	Proposal 18053, Visit 20, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(Visit 20) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous			
	(14)	RXJ2217.1-3617	RA: 22 17 8.1172 (334.2838217d) Dec: -36 17 34.56 (-36.29293d) Equinox: J2000				V=18.00+/-0.1 F=0.12E-14@1250; z=0.148000	Reference Frame: ICRS			
Comments: Category=GALAXY Description=[QUASAR] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	RX_J2217.1-3617-ACQ 7 (COS.ta.2022238)	(14) RXJ2217.1-361	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				73 Secs (73 Secs) [==>]	[1]	
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.12E-14 Count rate 12/sec										
	2	RX_J2217.1-3617-2.1.3 7 (COS.sp.2022562)	(14) RXJ2217.1-361	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=3500				2036 Secs (2036 Secs) [==>]	[1]
Comments: Exposure with FP-POS=3, first orbit total count rate 353/sec S/N(orbit)~3.8, S/N(total)~8.1											
3	RX_J2217.1-3617-2.2.4 7 (COS.sp.2022562)	(14) RXJ2217.1-361	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=3500				2552 Secs (2552 Secs) [==>]	[2]	
Comments: Exposure with FP-POS=4, second orbit total count rate 353/sec S/N(orbit)~4.3, S/N(total)~8.1											

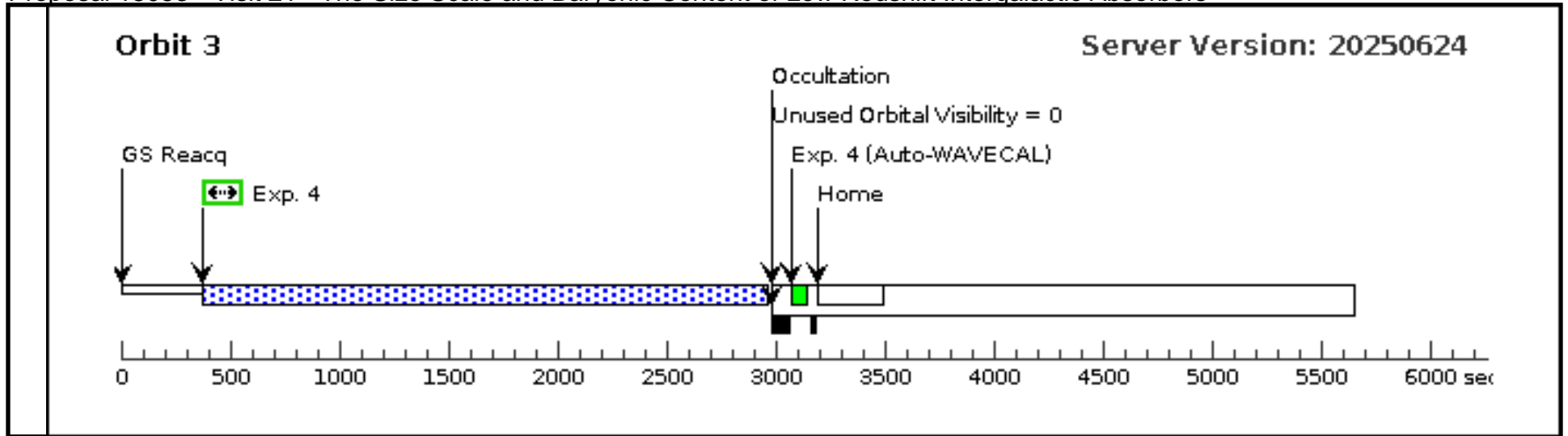


Proposal 18053 - Visit 21 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

Visit	Proposal 18053, Visit 21, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 21) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(15)	SDSSJ114220.70+25032.0	RA: 11 42 20.6830 (175.5861792d) Dec: +25 03 22.49 (25.05625d) Equinox: J2000		V=19.13+/-0.1 F=0.06E-14@1250; z=0.221155	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[QUASAR] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSSJ114220.70+25032.0-ACQ (COS.ta.202 2255)	(15) SDSSJ114220.7 0+250322.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				14 Secs (14 Secs) [==>]	[1]
	<i>Comments: NUV acquisition exposure</i> COS ETC result for S/N=30; F=0.06E-14 Count rate 124/sec with MIRRORA Nominal exposure 7 sec, doubled to 14 sec									
	2	SDSSJ114220.70+25032.0-1.1.3 (COS.sp.202 2565)	(15) SDSSJ114220.7 0+250322.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=3500			2145 Secs (2145 Secs) [==>]	[1]
	<i>Comments: Exposure with FP-POS=3, first orbit</i> total count rate 339/sec S/N(orbit)~2.6, S/N(total)~8.3									
	3	SDSSJ114220.70+25032.0-1.2.4 (COS.sp.202 2565)	(15) SDSSJ114220.7 0+250322.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=3500			2543 Secs (2543 Secs) [==>]	[2]
	<i>Comments: Exposure with FP-POS=4, second orbit</i> total count rate 339/sec S/N(orbit)~2.8, S/N(total)~8.3									
	4	SDSSJ114220.70+25032.0-1.3.4 (COS.sp.202 2565)	(15) SDSSJ114220.7 0+250322.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=3500			2543 Secs (2543 Secs) [==>]	[3]
	<i>Comments: Exposure with FP-POS=4, third orbit</i> total count rate 330/sec S/N(orbit)~2.8, S/N(total)~8.3									

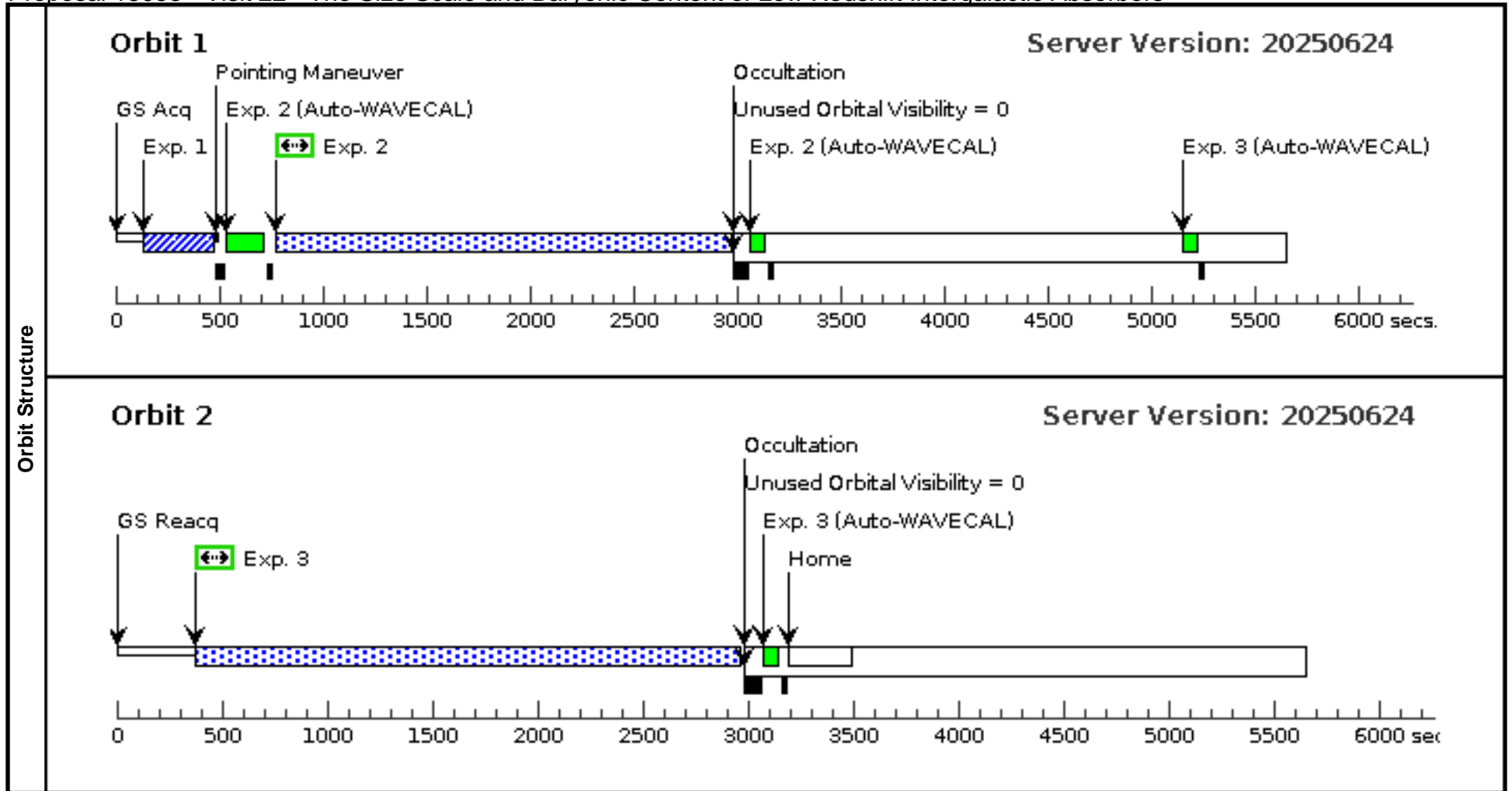




Proposal 18053 - Visit 22 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

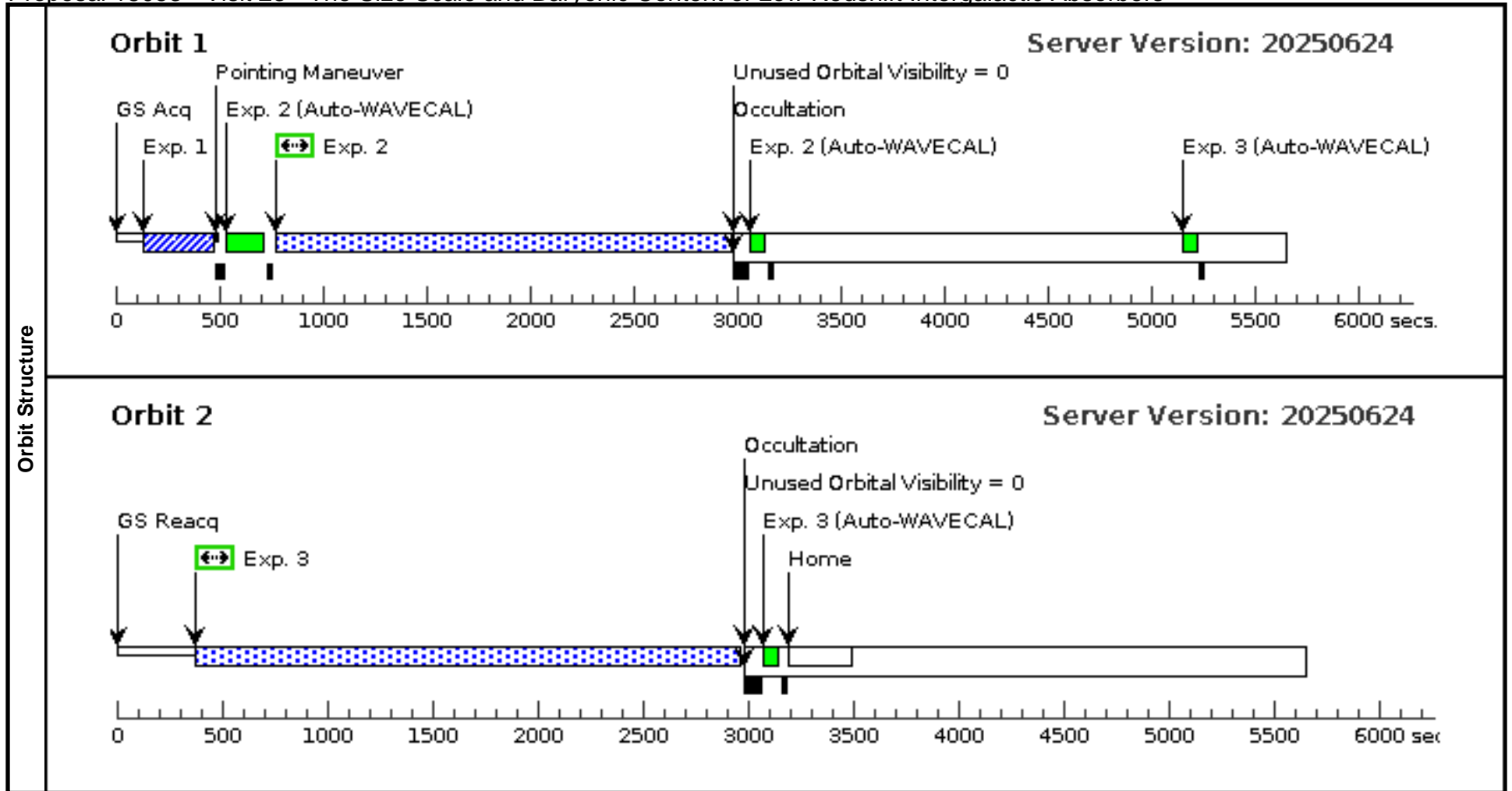
Visit	Proposal 18053, Visit 22, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 22) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(15)	SDSSJ114220.70+25032.0	RA: 11 42 20.6830 (175.5861792d) Dec: +25 03 22.49 (25.05625d) Equinox: J2000		V=19.13+/-0.1 F=0.06E-14@1250; z=0.221155	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[QUASAR] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSSJ114220.70+25032.0-ACQ (COS.ta.202 2255)	(15) SDSSJ114220.7 0+250322.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				14 Secs (14 Secs) [==>]	[1]
	<i>Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.06E-14 Count rate 124/sec with MIRRORA Nominal exposure 7 sec, doubled to 14 sec</i>									
	2	SDSSJ114220.70+25032.0-2.1.3 (COS.sp.202 2565)	(15) SDSSJ114220.7 0+250322.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00			2145 Secs (2145 Secs) [==>]	[1]
	<i>Comments: Exposure with FP-POS=3, first orbit total count rate 339/sec S/N(orbit)~2.6, S/N(total)~8.3</i>									
	3	SDSSJ114220.70+25032.0-2.2.4 (COS.sp.202 2565)	(15) SDSSJ114220.7 0+250322.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00			2543 Secs (2543 Secs) [==>]	[2]
	<i>Comments: Exposure with FP-POS=4, second orbit total count rate 339/sec S/N(orbit)~2.8, S/N(total)~8.3</i>									



Proposal 18053 - Visit 23 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

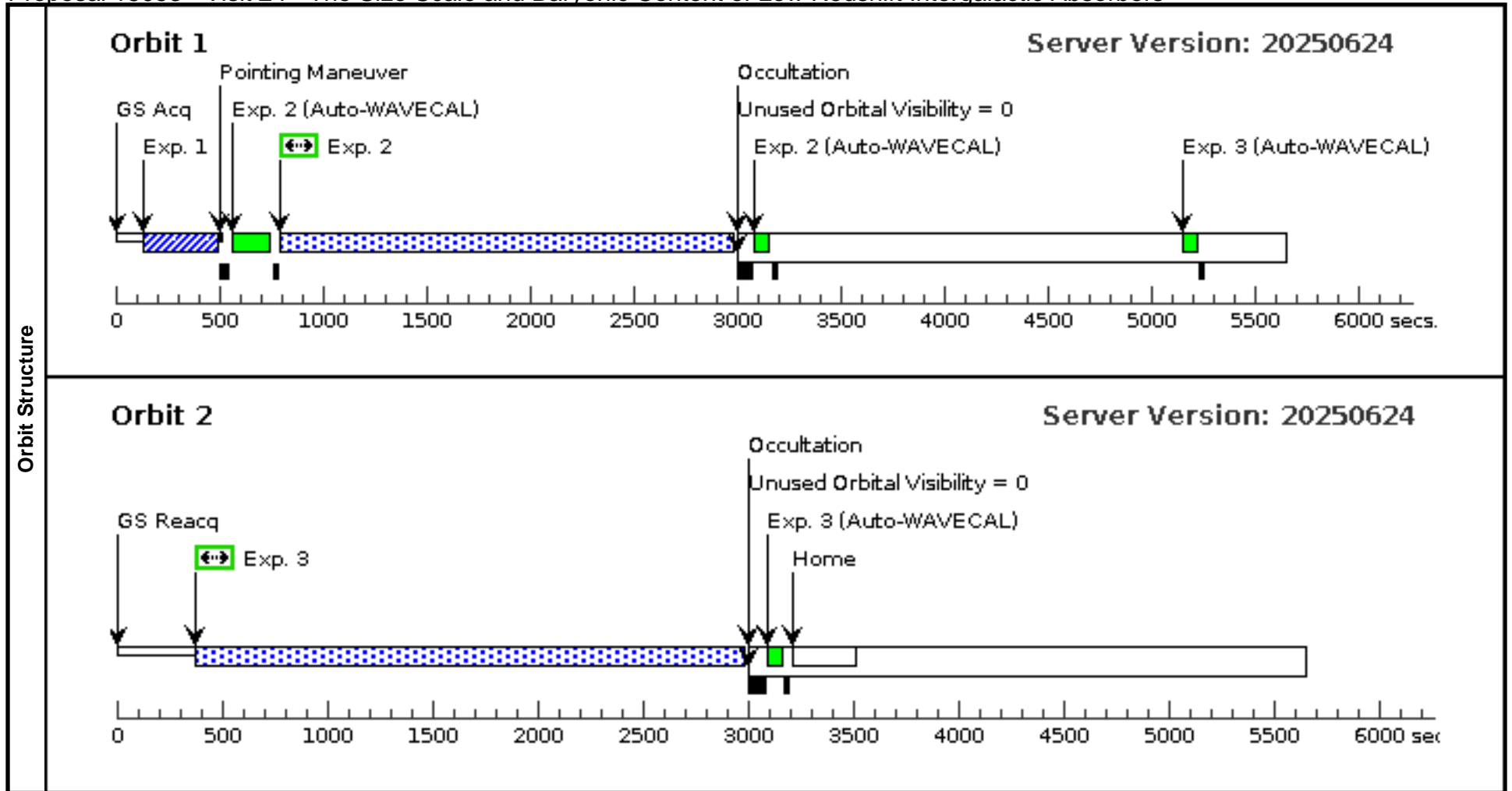
Visit	Proposal 18053, Visit 23, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 23) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(15)	SDSSJ114220.70+25032.0	RA: 11 42 20.6830 (175.5861792d) Dec: +25 03 22.49 (25.05625d) Equinox: J2000		V=19.13+/-0.1 F=0.06E-14@1250; z=0.221155	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QUASAR] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSSJ114220.70+25032.0-ACQ (COS.ta.202 2255)	(15) SDSSJ114220.7 0+250322.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				14 Secs (14 Secs) [==>]	[1]
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.06E-14 Count rate 124/sec with MIRRORA Nominal exposure 7 sec, doubled to 14 sec									
	2	SDSSJ114220.70+25032.0-3.1.3 (COS.sp.202 2565)	(15) SDSSJ114220.7 0+250322.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=3500				2145 Secs (2145 Secs) [==>]
Comments: Exposure with FP-POS=3, first orbit total count rate 339/sec S/N(orbit)~2.6, S/N(total)~8.3										
3	SDSSJ114220.70+25032.0-3.2.4 (COS.sp.202 2565)	(15) SDSSJ114220.7 0+250322.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=3500				2543 Secs (2543 Secs) [==>]	[2]
Comments: Exposure with FP-POS=4, second orbit total count rate 339/sec S/N(orbit)~2.8, S/N(total)~8.3										



Proposal 18053 - Visit 24 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:48 GMT 2025

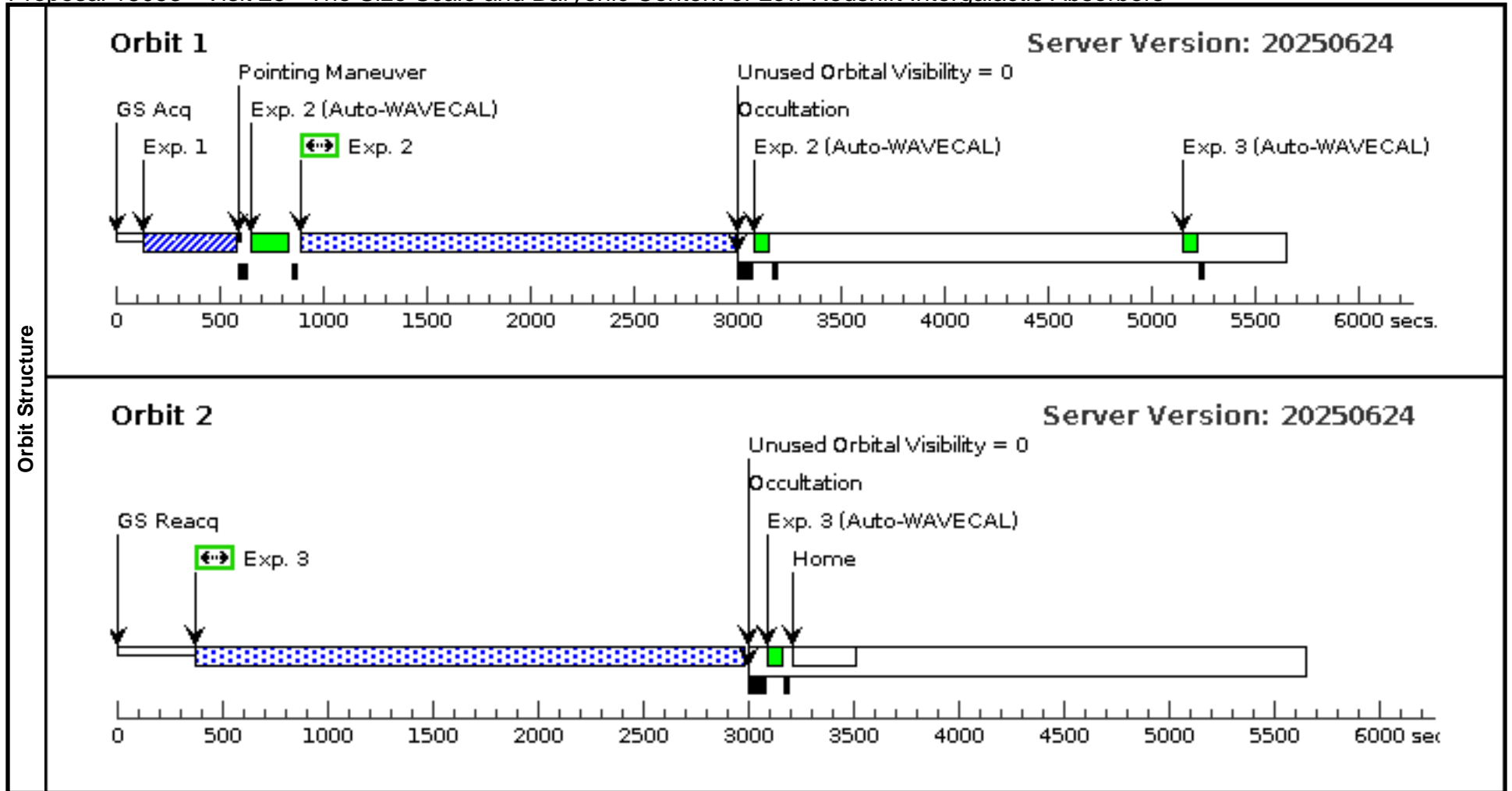
Visit	<p>Proposal 18053, Visit 24, implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p>									
Diagnostics	(Visit 24) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous		
	(16)	MRK1103	RA: 15 57 23.8774 (239.3494892d) Dec: +41 31 53.50 (41.53153d) Equinox: J2000				V=16.00+/-0.1 F=0.32E-14@1250; z=0.034393	Reference Frame: ICRS		
	<p><i>Comments:</i> Category=GALAXY Description=[SEYFERT] Extended=NO</p>									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	MRK1103- ACQ (COS.ta.202 2241)	(16) MRK1103	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				27 Secs (27 Secs) [==>]	[1]
	<p><i>Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.32E-14 Count rate 33/sec</i></p>									
	2	MRK1103-1 .3 (COS.sp.202 258)	(16) MRK1103	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00			2137 Secs (2137 Secs) [==>]	[1]
	<p><i>Comments: Exposure with FP-POS=3, first orbit total count rate 401/sec S/N(orbit)~6.6, S/N(total)~9.8</i></p>									
	3	MRK1103-2 .4 (COS.sp.202 2568)	(16) MRK1103	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00			2561 Secs (2561 Secs) [==>]	[2]
	<p><i>Comments: Exposure with FP-POS=4, second orbit total count rate 401/sec S/N(orbit)~7.3, S/N(total)~9.8</i></p>									



Proposal 18053 - Visit 25 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:49 GMT 2025

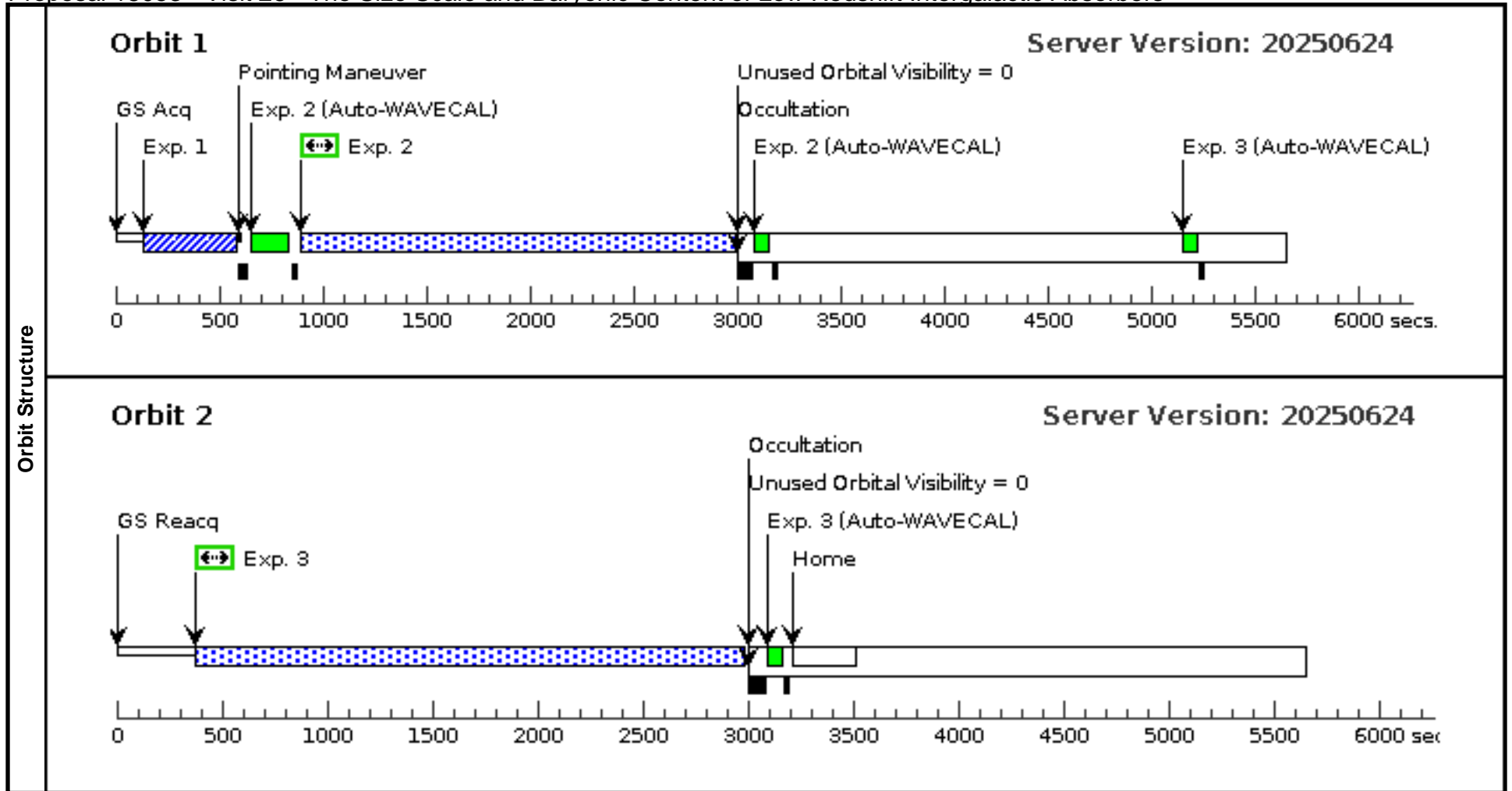
Visit	Proposal 18053, Visit 25, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(Visit 25) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous			
	(17)	MRK1102	RA: 15 57 10.5026 (239.2937608d) Dec: +41 32 36.67 (41.54352d) Equinox: J2000				V=16.00+/-0.1 F=0.12E-14@1250; z=0.034450	Reference Frame: ICRS			
Comments: Category=GALAXY Description=[SEYFERT] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	MRK1102- ACQ (COS.ta.202 2242)	(17) MRK1102	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				73 Secs (73 Secs) [==>]	[1]	
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.12E-14 Count rate 12/sec										
	2	MRK1102-1 .13 (COS.sp.202 271)	(17) MRK1102	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00			2045 Secs (2045 Secs) [==>]	[1]	
Comments: Exposure with FP-POS=3, first orbit total count rate 353/sec S/N(orbit)~3.8, S/N(total)~8.1											
3	MRK1102-1 .24 (COS.sp.202 2571)	(17) MRK1102	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00			2561 Secs (2561 Secs) [==>]	[2]		
Comments: Exposure with FP-POS=4, second orbit total count rate 353/sec S/N(orbit)~4.3, S/N(total)~8.1											



Proposal 18053 - Visit 26 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:49 GMT 2025

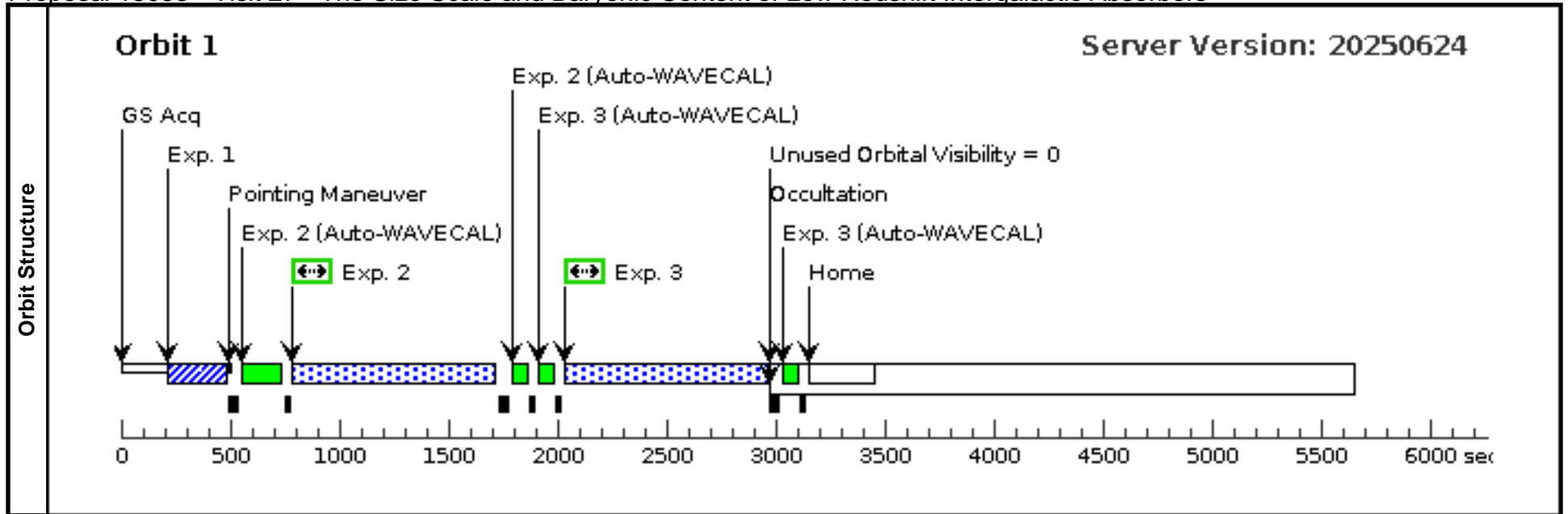
Visit	Proposal 18053, Visit 26, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(Visit 26) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous			
	(17)	MRK1102	RA: 15 57 10.5026 (239.2937608d) Dec: +41 32 36.67 (41.54352d) Equinox: J2000				V=16.00+/-0.1 F=0.12E-14@1250; z=0.034450	Reference Frame: ICRS			
Comments: Category=GALAXY Description=[SEYFERT] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	MRK1102- ACQ (COS.ta.202 2242)	(17) MRK1102	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				73 Secs (73 Secs) [==>]	[1]	
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.12E-14 Count rate 12/sec										
	2	MRK1102-2 .23 (COS.sp.202 271)	(17) MRK1102	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00				2045 Secs (2045 Secs) [==>]	[1]
Comments: Exposure with FP-POS=3, first orbit total count rate 353/sec S/N(orbit)~3.8, S/N(total)~8.1											
3	MRK1102-2 .24 (COS.sp.202 2571)	(17) MRK1102	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00				2561 Secs (2561 Secs) [==>]	[2]	
Comments: Exposure with FP-POS=4, second orbit total count rate 353/sec S/N(orbit)~4.3, S/N(total)~8.1											



Proposal 18053 - Visit 27 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:49 GMT 2025

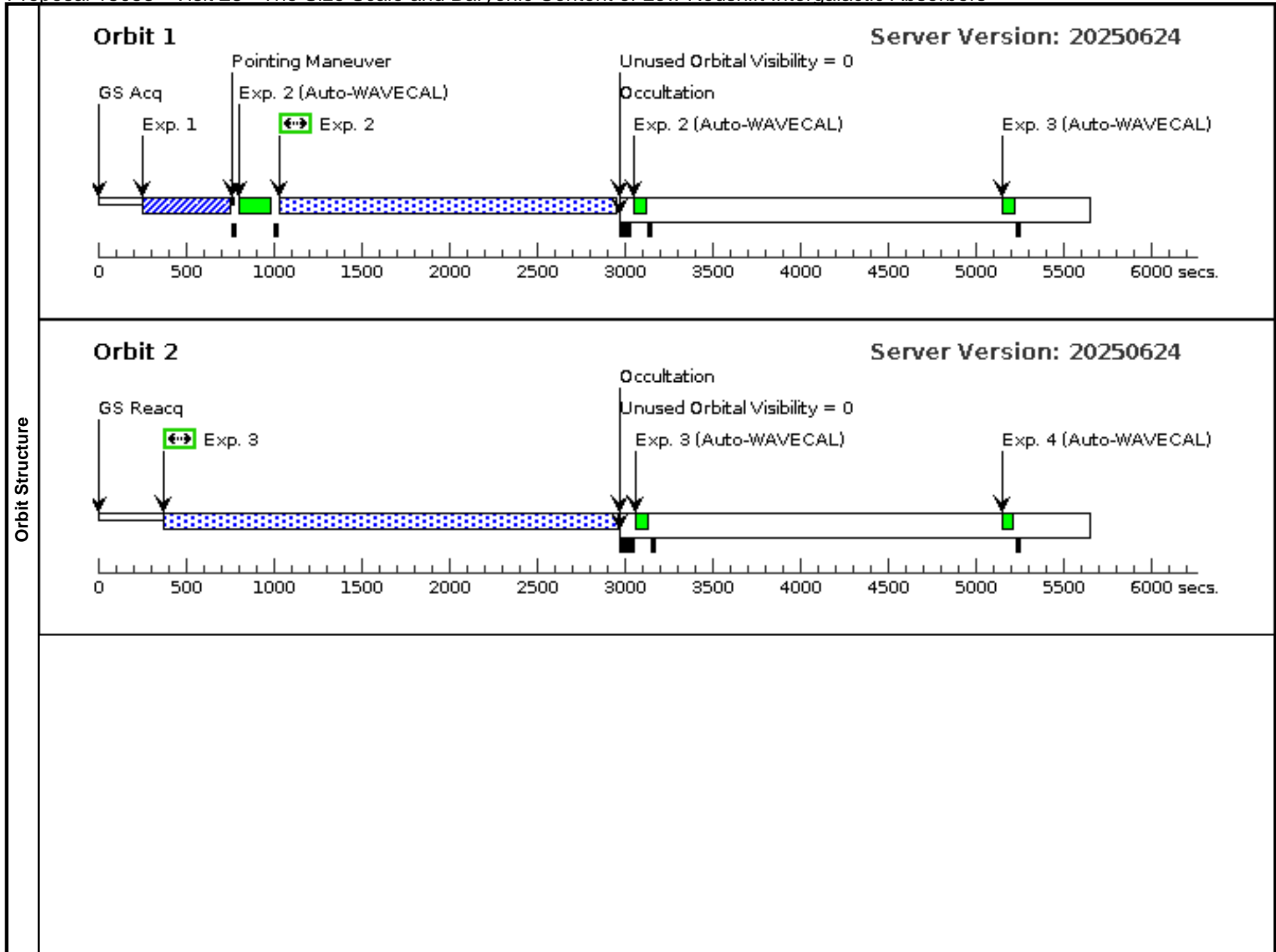
Visit	Proposal 18053, Visit 27, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 27) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(18)	MRK734	RA: 11 21 47.1030 (170.4462625d) Dec: +11 44 18.26 (11.73841d) Equinox: J2000		V=14.93+/-0.1 F=4.00E-14@1250; z=0.050201	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[SEYFERT] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	MRK734-A CQ (COS.ta.202 6556)	(18) MRK734	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				22 Secs (22 Secs) [==>]	[1]
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=4.00E-14 Using MIRRORB+PSA count rate 412/se, nominal exposure time 2 sec, increased to 5 (COS.ta.202243) Using MIRRORA+BOA count rate 41/s, exposure time 21.9 sec, rounded to 22 sec.									
	2	MRK734-1. 3 (COS.sp.202 2573)	(18) MRK734	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00			878 Secs (878 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=3, first half of orbit total count rate 1280/sec S/N(orbit)~15.5, S/N(total)~21.9									
	3	MRK734-1. 4 (COS.sp.202 2573)	(18) MRK734	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00			878 Secs (878 Secs) [==>]	[1]
	Comments: Exposure with FP-POS=4, second half of orbit total count rate 1280/sec S/N(orbit)~15.5, S/N(total)~21.9									

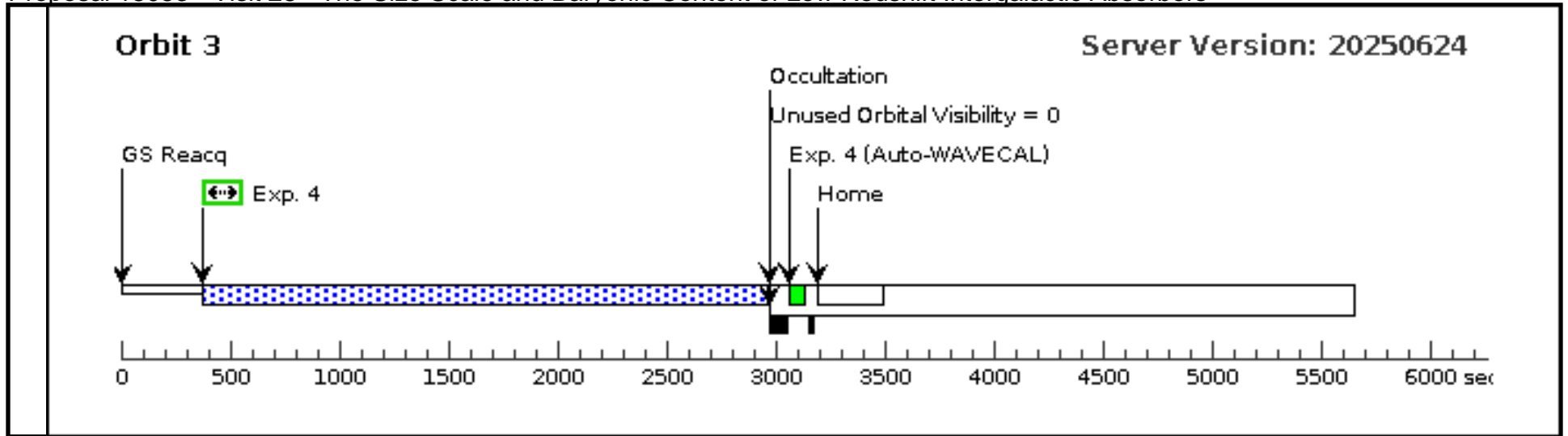


Proposal 18053 - Visit 28 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:49 GMT 2025

Visit	Proposal 18053, Visit 28, implementation Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																																										
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(19)</td> <td>IC2746</td> <td>RA: 11 21 36.4070 (170.4016958d) Dec: +11 44 12.48 (11.73680d) Equinox: J2000</td> <td></td> <td>V=15.00+/-0.1 F=0.11E-14@1250; z=0.039882</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p> Comments: Category=GALAXY Description=[SEYFERT] Extended=NO </p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(19)	IC2746	RA: 11 21 36.4070 (170.4016958d) Dec: +11 44 12.48 (11.73680d) Equinox: J2000		V=15.00+/-0.1 F=0.11E-14@1250; z=0.039882	Reference Frame: ICRS																																																																														
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																																																						
(19)	IC2746	RA: 11 21 36.4070 (170.4016958d) Dec: +11 44 12.48 (11.73680d) Equinox: J2000		V=15.00+/-0.1 F=0.11E-14@1250; z=0.039882	Reference Frame: ICRS																																																																																						
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>IC2746-AC Q (COS.ta.202 2855)</td> <td>(19) IC2746</td> <td>COS/NUV, ACQ/SEARCH, PSA</td> <td>MIRRORA</td> <td>SCAN-SIZE=3</td> <td></td> <td></td> <td>10 Secs (10 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"> Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.11E-14 Count rate 228/sec </td> </tr> <tr> <td>2</td> <td>IC2746-1.1.3 (COS.sp.202 276)</td> <td>(19) IC2746</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=3; BUFFER-TIME=35 00</td> <td></td> <td></td> <td>1869 Secs (1869 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"> Comments: Exposure with FP-POS=3, first half of orbit total count rate 351/sec S/N(orbit)~3.6, S/N(total)~7.7 </td> </tr> <tr> <td>3</td> <td>IC2746-1.2.4 (COS.sp.202 2576)</td> <td>(19) IC2746</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=4; BUFFER-TIME=35 00</td> <td></td> <td></td> <td>2534 Secs (2534 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td colspan="10"> Comments: Exposure with FP-POS=4, second half of orbit total count rate 351/sec S/N(orbit)~4.0, S/N(total)~7.7 </td> </tr> <tr> <td>4</td> <td>IC2746-1.3.4 (COS.sp.202 2576)</td> <td>(19) IC2746</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=4; BUFFER-TIME=35 00</td> <td></td> <td></td> <td>2534 Secs (2534 Secs) [==>]</td> <td>[3]</td> </tr> <tr> <td colspan="10"> Comments: Exposure with FP-POS=4, second half of orbit total count rate 351/sec S/N(orbit)~4.0, S/N(total)~7.7 </td> </tr> </tbody> </table>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	IC2746-AC Q (COS.ta.202 2855)	(19) IC2746	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=3			10 Secs (10 Secs) [==>]	[1]	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.11E-14 Count rate 228/sec										2	IC2746-1.1.3 (COS.sp.202 276)	(19) IC2746	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00			1869 Secs (1869 Secs) [==>]	[1]	Comments: Exposure with FP-POS=3, first half of orbit total count rate 351/sec S/N(orbit)~3.6, S/N(total)~7.7										3	IC2746-1.2.4 (COS.sp.202 2576)	(19) IC2746	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00			2534 Secs (2534 Secs) [==>]	[2]	Comments: Exposure with FP-POS=4, second half of orbit total count rate 351/sec S/N(orbit)~4.0, S/N(total)~7.7										4	IC2746-1.3.4 (COS.sp.202 2576)	(19) IC2746	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00			2534 Secs (2534 Secs) [==>]	[3]	Comments: Exposure with FP-POS=4, second half of orbit total count rate 351/sec S/N(orbit)~4.0, S/N(total)~7.7									
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																																																		
1	IC2746-AC Q (COS.ta.202 2855)	(19) IC2746	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=3			10 Secs (10 Secs) [==>]	[1]																																																																																		
Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.11E-14 Count rate 228/sec																																																																																											
2	IC2746-1.1.3 (COS.sp.202 276)	(19) IC2746	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00			1869 Secs (1869 Secs) [==>]	[1]																																																																																		
Comments: Exposure with FP-POS=3, first half of orbit total count rate 351/sec S/N(orbit)~3.6, S/N(total)~7.7																																																																																											
3	IC2746-1.2.4 (COS.sp.202 2576)	(19) IC2746	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00			2534 Secs (2534 Secs) [==>]	[2]																																																																																		
Comments: Exposure with FP-POS=4, second half of orbit total count rate 351/sec S/N(orbit)~4.0, S/N(total)~7.7																																																																																											
4	IC2746-1.3.4 (COS.sp.202 2576)	(19) IC2746	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00			2534 Secs (2534 Secs) [==>]	[3]																																																																																		
Comments: Exposure with FP-POS=4, second half of orbit total count rate 351/sec S/N(orbit)~4.0, S/N(total)~7.7																																																																																											

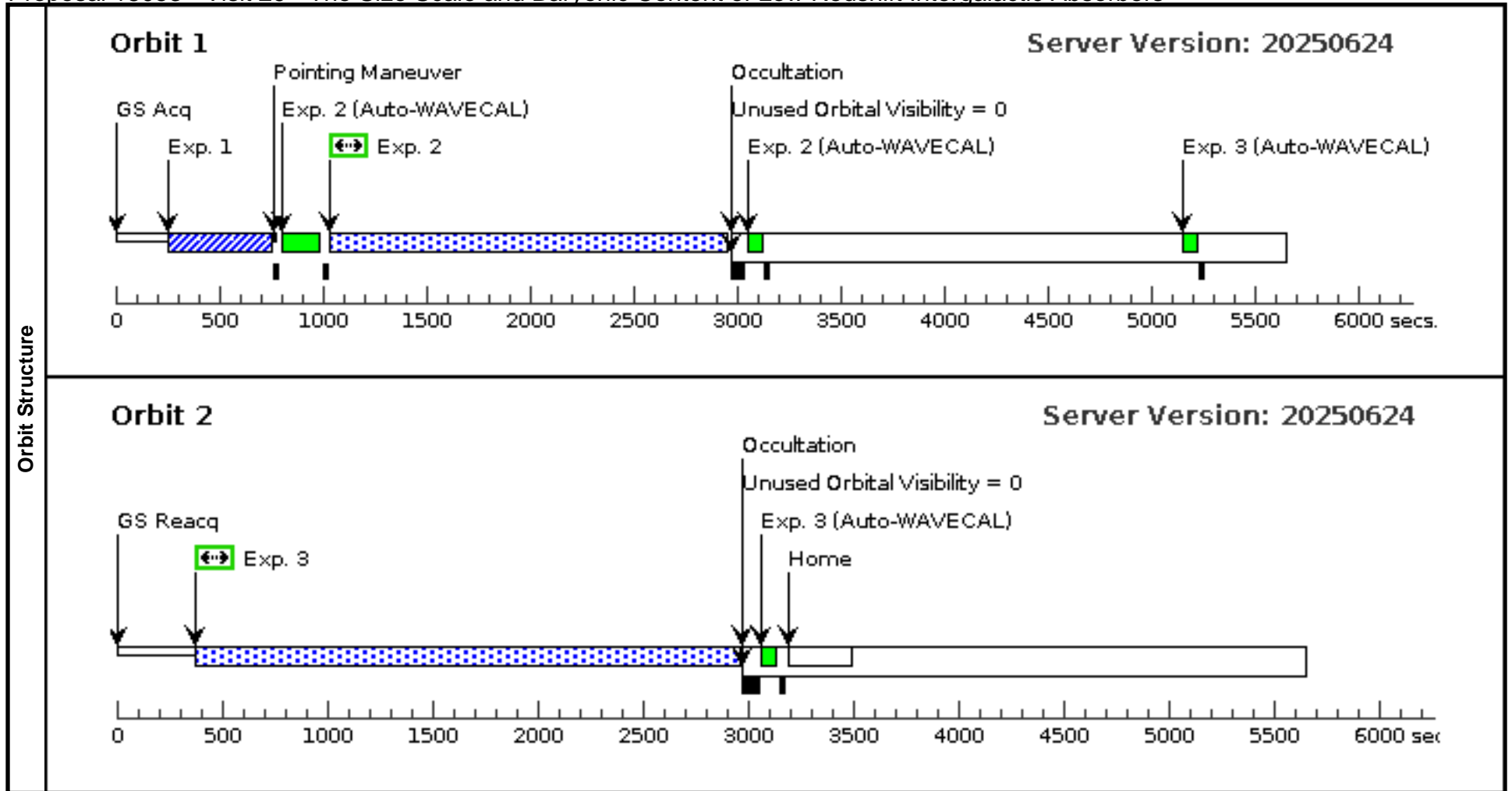




Proposal 18053 - Visit 29 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:49 GMT 2025

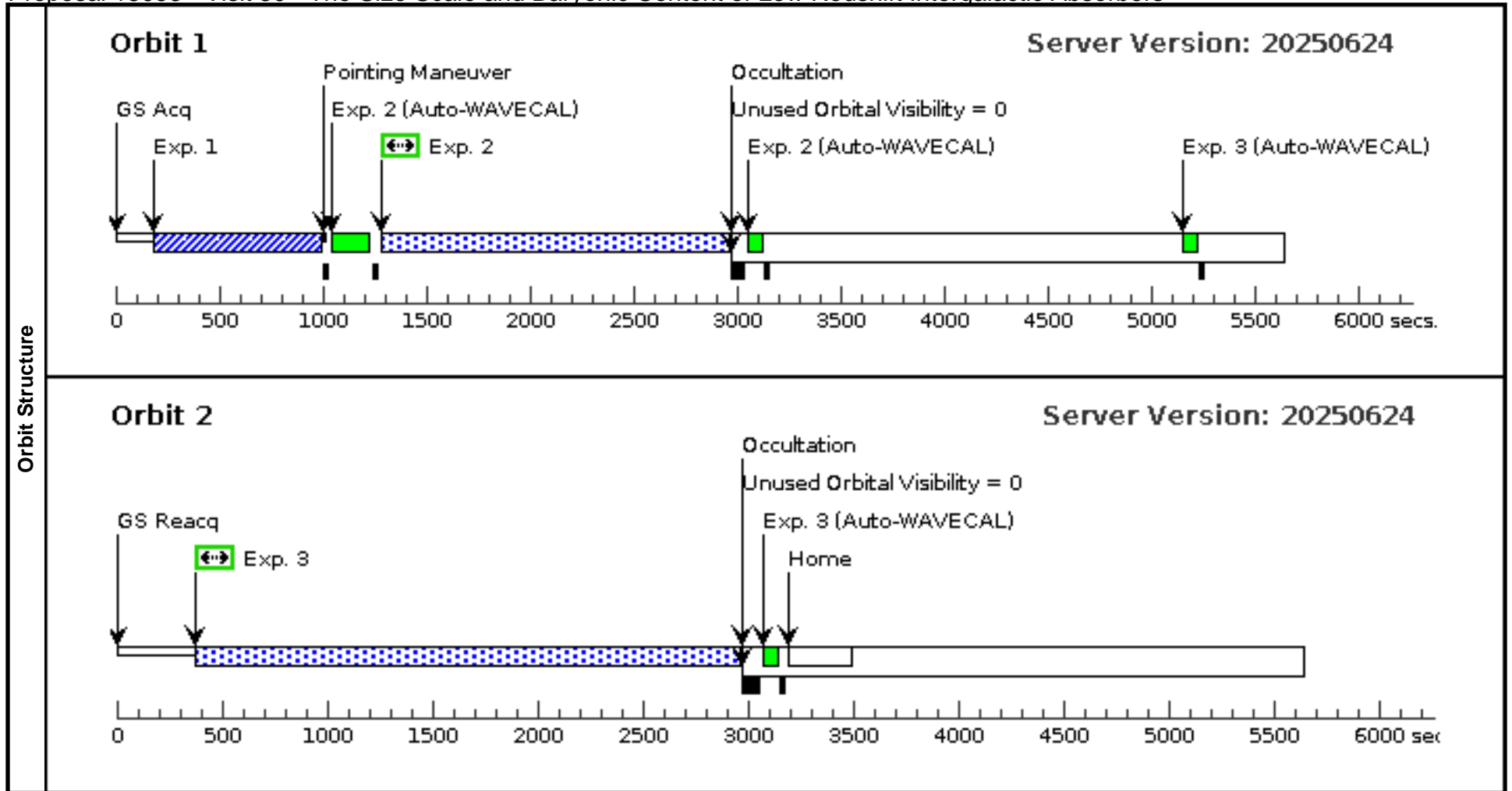
Visit	Proposal 18053, Visit 29, implementation Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(19)	IC2746	RA: 11 21 36.4070 (170.4016958d) Dec: +11 44 12.48 (11.73680d) Equinox: J2000		V=15.00+/-0.1 F=0.11E-14@1250; z=0.039882	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[SEYFERT] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	IC2746-AC Q (COS.ta.202 2855)	(19) IC2746	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=3			10 Secs (10 Secs) [==>]	[1]
	<i>Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.11E-14 Count rate 228/sec</i>									
	2	IC2746-2.1. 3 (COS.sp.202 276)	(19) IC2746	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00			1869 Secs (1869 Secs) [==>]	[1]
	<i>Comments: Exposure with FP-POS=3, first half of orbit total count rate 351/sec S/N(orbit)~3.6, S/N(total)~7.7</i>									
	3	IC2746-2.2. 4 (COS.sp.202 2576)	(19) IC2746	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00			2534 Secs (2534 Secs) [==>]	[2]
	<i>Comments: Exposure with FP-POS=4, second half of orbit total count rate 351/sec S/N(orbit)~4.0, S/N(total)~7.7</i>									



Proposal 18053 - Visit 30 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:49 GMT 2025

Visit	Proposal 18053, Visit 30, implementation Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(20)	UM653	RA: 14 16 15.4000 (214.0641667d) Dec: -01 27 51.50 (-1.46431d) Equinox: J2000		V=16.78+/-0.1 F=0.41E-14@1250; z=0.036350	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[SEYFERT] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	UM653-AC Q (COS.ta.202 2871)	(20) UM653	COS/NUV, ACQ/SEARCH, PSA	MIRRORB	SCAN-SIZE=3			37 Secs (37 Secs) [==>]	[1]
	<i>Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.41E-14 Count rate 165/sec</i>									
	2	UM653-1.3 (COS.sp.202 279)	(20) UM653	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00			1631 Secs (1631 Secs) [==>]	[1]
	<i>Comments: Exposure with FP-POS=3, first orbit total count rate 423/sec S/N(orbit)~7.5, S/N(total)~11.1</i>									
	3	UM653-2.4 (COS.sp.202 2579)	(20) UM653	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00			2539 Secs (2539 Secs) [==>]	[2]
	<i>Comments: Exposure with FP-POS=4, second orbit total count rate 423/sec S/N(orbit)~8.2, S/N(total)~11.1</i>									



Proposal 18053 - Visit 31 - The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers

Thu Aug 21 19:00:49 GMT 2025

Visit	Proposal 18053, Visit 31, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(Visit 31) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(21)	UM654	RA: 14 16 19.6900 (214.0820417d) Dec: -01 25 17.23 (-1.42145d) Equinox: J2000				V=17.73+/-0.1 F=0.21E-14@1250; z=0.036834		Reference Frame: ICRS		
Comments: Category=GALAXY Description=[SEYFERT] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	UM654-AC Q (COS.ta.202 2246)	(21) UM654	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				42 Secs (42 Secs) [==>]		[1]
	Comments: NUV acquisition exposure COS ETC result for S/N=30; F=0.21E-14 Count rate 22/sec										
	2	UM654-1.3 (COS.sp.202 2582)	(21) UM654	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=35 00				2085 Secs (2085 Secs) [==>]	
Comments: Exposure with FP-POS=3, first orbit total count rate 374/sec S/N(orbit)~5.2, S/N(total)~7.8											
3	UM654-2.4 (COS.sp.202 2582)	(21) UM654	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=35 00				2539 Secs (2539 Secs) [==>]		[2]
Comments: Exposure with FP-POS=4, second orbit total count rate 374/sec S/N(orbit)~5.8, S/N(total)~7.8											

