



12575 - New Constraints on Intragroup Light and the Baryon Budget in Galaxy Groups

Cycle: 19, Proposal Category: GO
(Availability Mode: SUPPORTED)

INVESTIGATORS

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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) SG1120-1 ANY	ACS/WFC WFC3/IR	5	08-Sep-2011 21:40:29.0	yes
02	(2) SG1120-2 ANY	ACS/WFC WFC3/IR	5	08-Sep-2011 21:40:46.0	yes
03	(3) SG1120-3 ANY	ACS/WFC WFC3/IR	5	08-Sep-2011 21:41:01.0	yes
04	(4) SG1120-4 ANY	ACS/WFC WFC3/IR	5	08-Sep-2011 21:41:14.0	yes
05	(5) RXJ0329.0+0256	WFC3/IR	5	08-Sep-2011 21:41:24.0	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	(6) RXJ1334.0+3750	WFC3/IR	5	08-Sep-2011 21:41:33.0	yes
09	(9) XMMXCSJ011140.3-453908	WFC3/IR	4	08-Sep-2011 21:41:40.0	yes
10	(10) XMMXCSJ022045.1-032555.0	WFC3/IR	4	08-Sep-2011 21:41:49.0	yes

38 Total Orbits Used

ABSTRACT

We propose a focused WFC3/IR imaging program targeting galaxy groups at $z=0.3-0.5$ to better understanding why the partitionings between baryon phases (gas vs. stars) and stellar components (within vs. outside galaxies) show such strong variation from groups to rich clusters. We will 1) obtain the first complete census of stars both in and out of group galaxies for a representative sample of groups and 2) use the luminosity distribution and colors of the intragroup stellar populations to constrain the galactic population from which the stars were stripped. As demonstrated by our Cycle 16 program on the Bullet Cluster, WFC3 offers a major step forward for studies of such diffuse stellar populations, enabling a vast improvement over previous ground-based studies of intracluster/intragroup light and total baryon content in groups and clusters. We will use the sample from this program in conjunction with the clusters from the CLASH Multicycle Treasury Program to quantify the total stellar baryon content in clusters and groups spanning more than a dex in mass. We will also unambiguously determine the progenitor galaxy population from which the ICL is assembled.

OBSERVING DESCRIPTION

We are targeting a total of eight galaxy groups at $0.3 < z < 0.5$ to map out the intragroup light in these systems. We are using the F105W and F160W filters, with the expectation of recovering the color gradient in these filters out to 140 kpc in each group. The F105W filter is somewhat less sensitive for this program than F110W, but the greater wavelength baseline nonetheless makes it the preferred option. To be precise, we expect to lose 0.2 mag/sq arcsec depth but gain 0.2 mag in color leverage. This still enables us to get out to $r \sim 140$ kpc from the center of each group, which is our intended reach. Low sky is critical for this program because one of the two key limiting factors will be uncertainty in the background sky level (the other being low order flatfielding variations). We note that all fields remain schedulable outside the Nov 11, 2011 - March 1, 2012 window with the low sky requirement.

We are observing six of the systems for 5 orbits each, with 4 orbits allocated for each of the two lower redshift groups. With the 5 orbit observations the split is 2 orbits in F160W and 3 orbits in F105W. For dithering we are using the IR-DITHER-BLOB pattern with a 2 point line sub-pattern for F160W and IR-DITHER-BLOB with a 3 point line pattern for F105W, with the goal of optimizing the subpixel sampling while also obtaining good

(blob-free) data at all locations. With the 4 orbit observations every orbit is split between the two filters. We are again using IR-DITHER-BLOB with a 2 point dither pattern in this instance, but taking both filters at each position during a single dither pattern (as opposed to executing a dither pattern separately for each filter as in the 5 orbit case).

There are parallel orbits associated with four of the targets in this program (each 5 orbits). These parallel images with ACS are designed to provide morphological information on galaxies in the infall region around the supergroup SG1120. We have no constraints on orientation associated with these parallel observations.

ADDITIONAL COMMENTS

Please note that we have substituted in two new targets (the XMMXCS groups) to replace the XLSSC groups. This substitution has been approved.

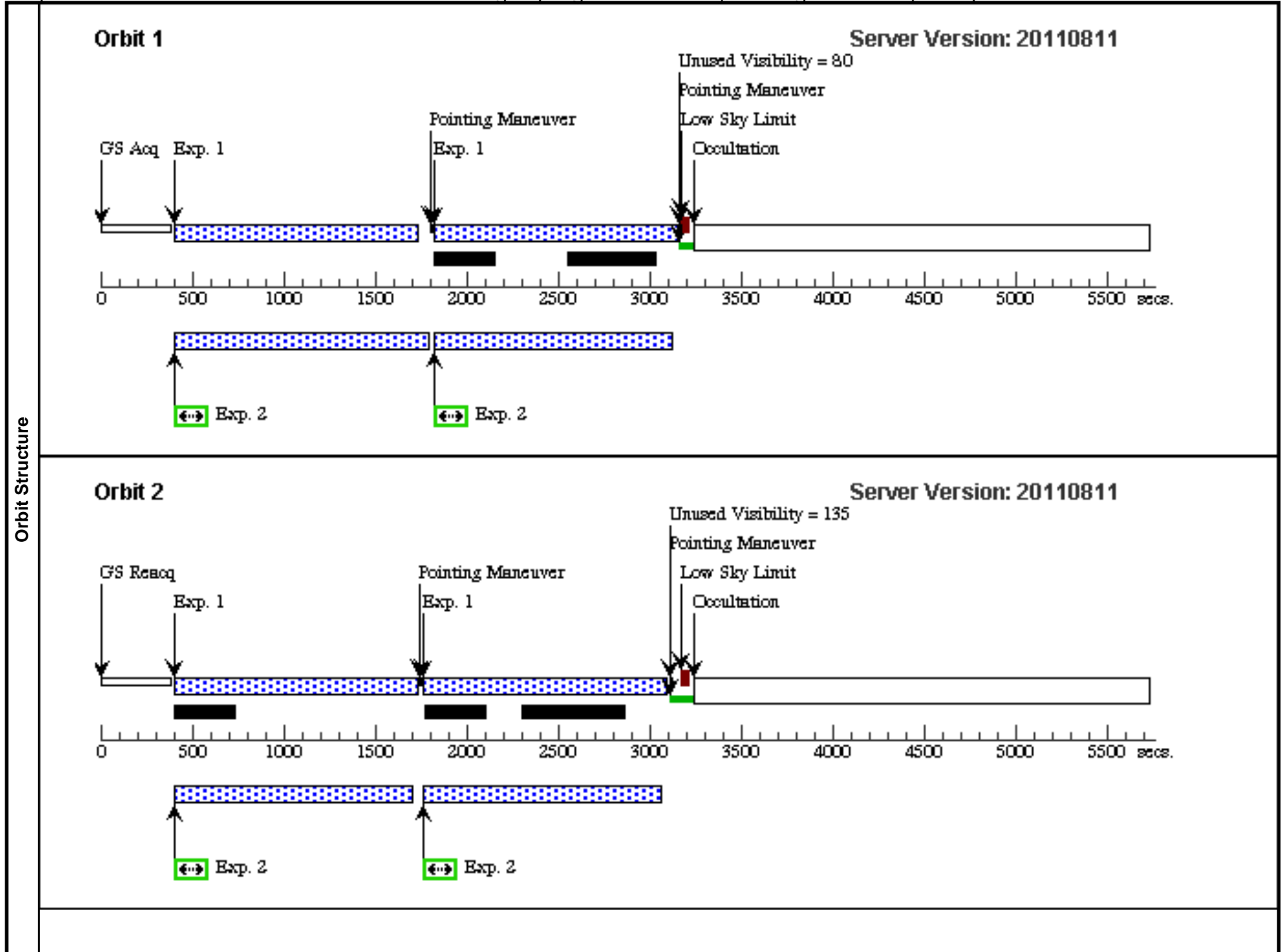
Proposal 12575 - Visit 01 - New Constraints on Intragroup Light and the Baryon Budget in Galaxy Groups

Fri Sep 09 01:41:56 GMT 2011

Visit	Proposal 12575, Visit 01, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: (none)					
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	(5)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=OTHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=138.141 Angle Between Sides= Center Pattern=false	(3-4)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	SG1120-1	RA: 11 20 7.5170 (170.0313208d) Dec: -12 05 9.40 (-12.08594d) Equinox: J2000	Redshift: .3707	V=18+/-2	Reference Frame: ICRS

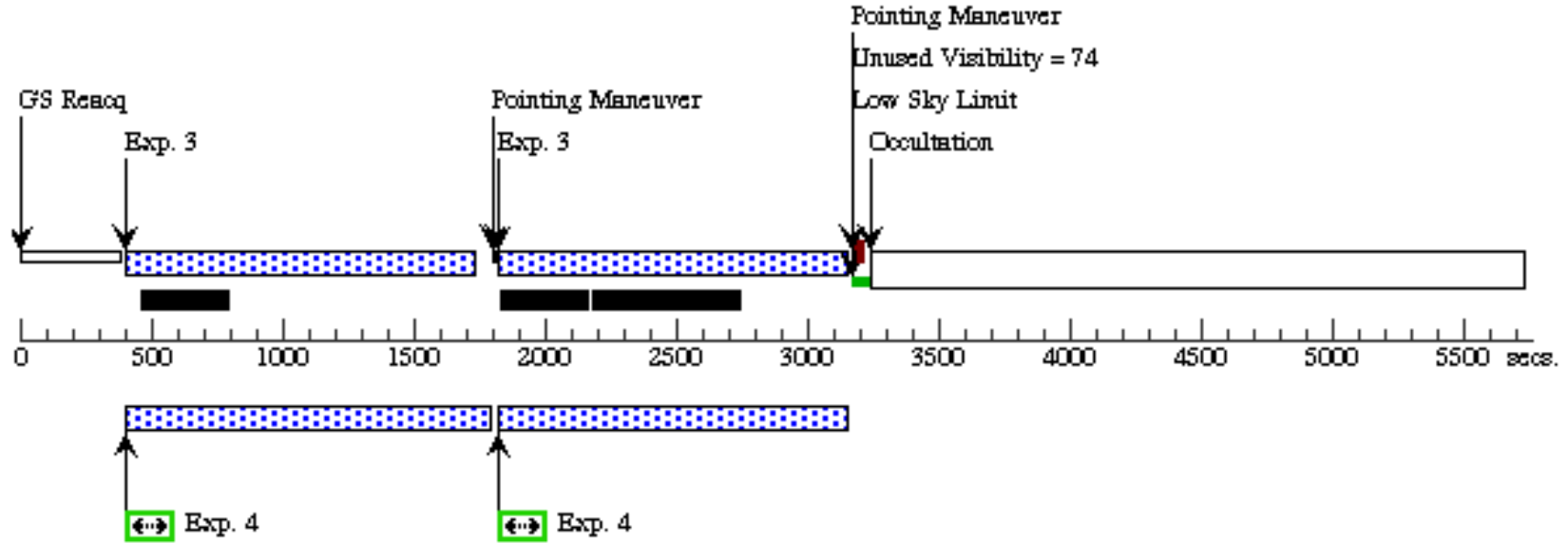
Proposal 12575 - Visit 01 - New Constraints on Intragroup Light and the Baryon Budget in Galaxy Groups

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) SG1120-1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPAR S100	LOW-SKY; GS ACQ SCENARI O BASE1B3	Pattern 4, Exps 1-2 in Visit 01 (4) Prime + Parallel Group 1-2 in Pattern 4, Exps 1-2 in Visit 01	[==>(Pattern 1,1)]	[1]
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									[==>(Pattern 2,2)]	
	2		ANY	ACS/WFC, ACCUM, WFC-FIX	F606W			Pattern 4, Exps 1-2 in Visit 01 (4) Prime + Parallel Group 1-2 in Pattern 4, Exps 1-2 in Visit 01	1180 Secs	
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									[==>(Pattern 1,2)]	
									[==>(Pattern 2,1)]	[2]
	3		(1) SG1120-1	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=14; SAMP-SEQ=SPAR S100	LOW-SKY	Pattern 5, Exps 3-4 in Visit 01 (5) Prime + Parallel Group 3-4 in Pattern 5, Exps 3-4 in Visit 01	[==>(Pattern 1,1)]	[3]
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4		ANY	ACS/WFC, ACCUM, WFC-FIX	F814W			Pattern 5, Exps 3-4 in Visit 01 (5) Prime + Parallel Group 3-4 in Pattern 5, Exps 3-4 in Visit 01	[==>(Pattern 2,3)]		
								1210 Secs		
								[==>(Pattern 1,1)]	[3]	
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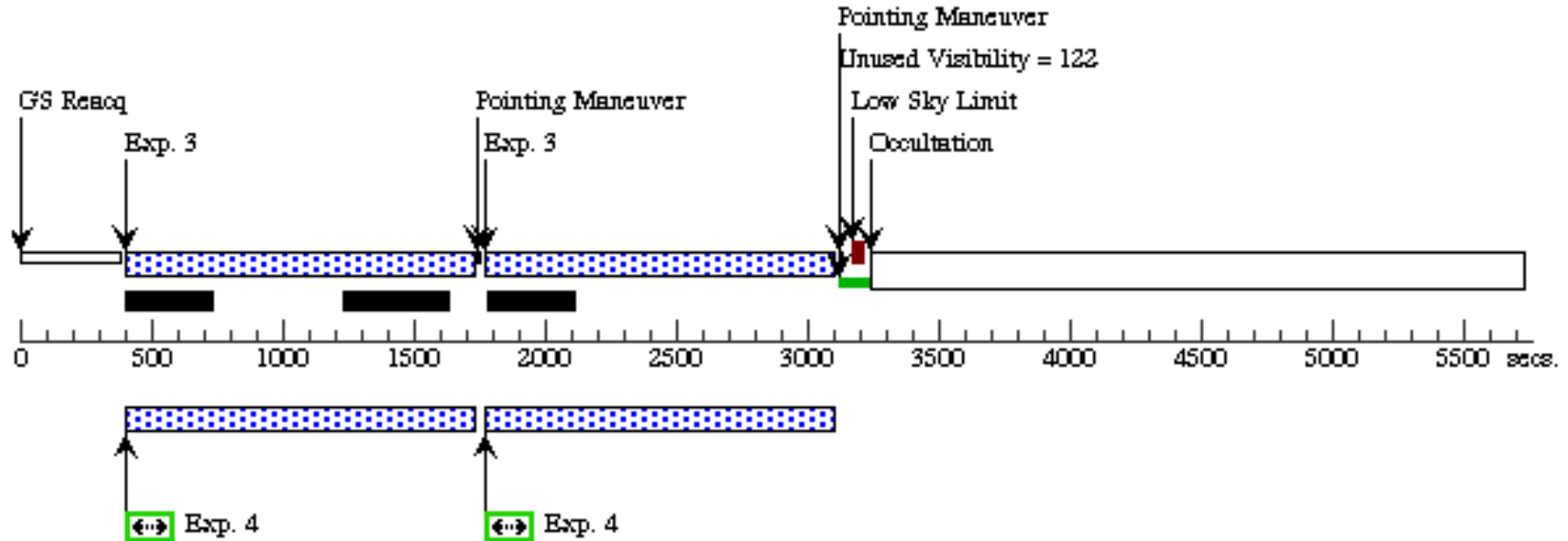
Orbit 3

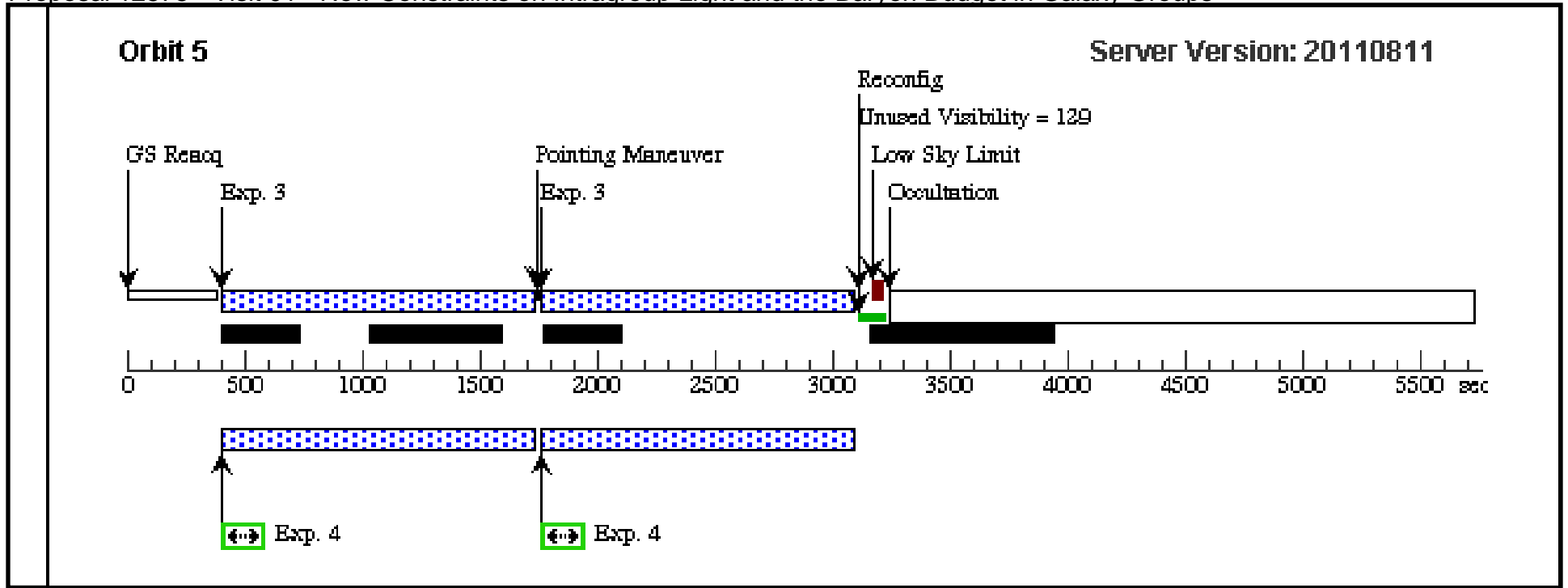
Server Version: 20110811



Orbit 4

Server Version: 20110811





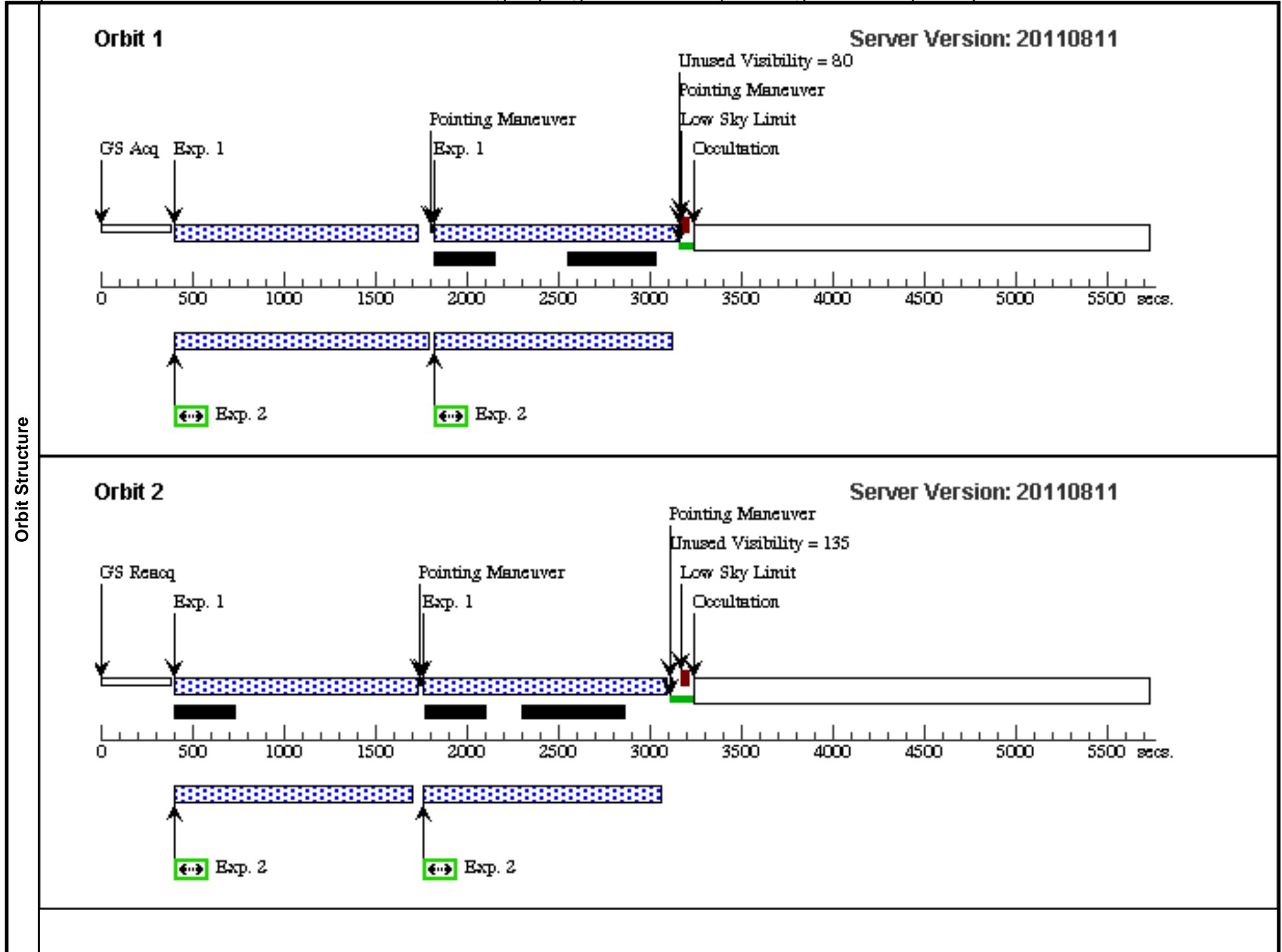
Proposal 12575 - Visit 02 - New Constraints on Intragroup Light and the Baryon Budget in Galaxy Groups

Fri Sep 09 01:41:57 GMT 2011

Visit	Proposal 12575, Visit 02, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: (none)					
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(5)		Pattern Type=WFC3-IR-DITHER-BLOB Purpose=OTHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=138.141 Angle Between Sides= Center Pattern=false	(3-4)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	SG1120-2	RA: 11 20 13.3150 (170.0554792d) Dec: -11 58 50.98 (-11.98083d) Equinox: J2000	Redshift: .3704	V=12+/-2	Reference Frame: ICRS

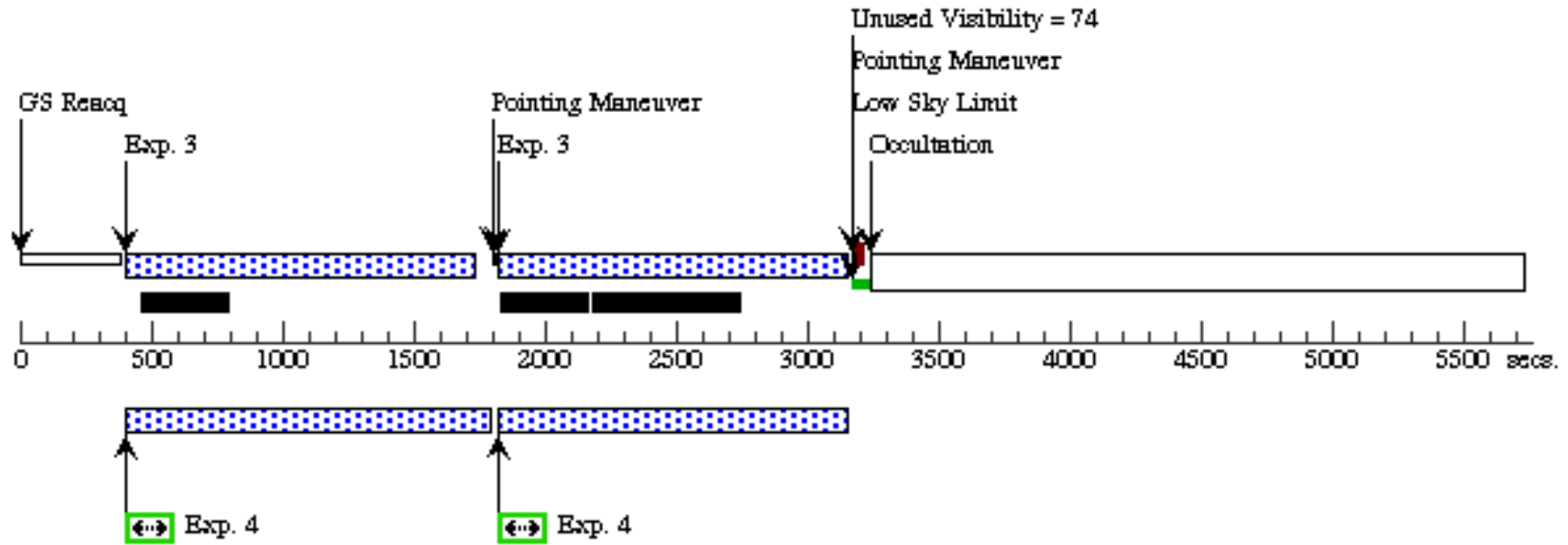
Proposal 12575 - Visit 02 - New Constraints on Intragroup Light and the Baryon Budget in Galaxy Groups

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
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									[==>(Pattern 1,2)]	[2]
	2	ANY	ACS/WFC, ACCUM, WFC-FIX	F606W				Pattern 4, Exps 1-2 in Visit 02 (4) Prime + Parallel Group 1-2 in Pattern 4, Exps 1-2 in Visit 02	1180 Secs	
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									[==>(Pattern 1,2)]	[2]
									[==>(Pattern 2,1)]	
									[==>(Pattern 2,2)]	
									[==>(Pattern 2,2)]	
	3	(2) SG1120-2	WFC3/IR, MULTIACCUM, IR-FIX	F105W		NSAMP=14; SAMP-SEQ=SPAR S100	LOW-SKY	Pattern 5, Exps 3-4 in Visit 02 (5) Prime + Parallel Group 3-4 in Pattern 5, Exps 3-4 in Visit 02	[==>(Pattern 1,1)]	[3]
[==>(Pattern 1,2)]									[4]	
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4	ANY	ACS/WFC, ACCUM, WFC-FIX	F814W				Pattern 5, Exps 3-4 in Visit 02 (5) Prime + Parallel Group 3-4 in Pattern 5, Exps 3-4 in Visit 02	1210 Secs		
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								[==>(Pattern 1,2)]	[4]	
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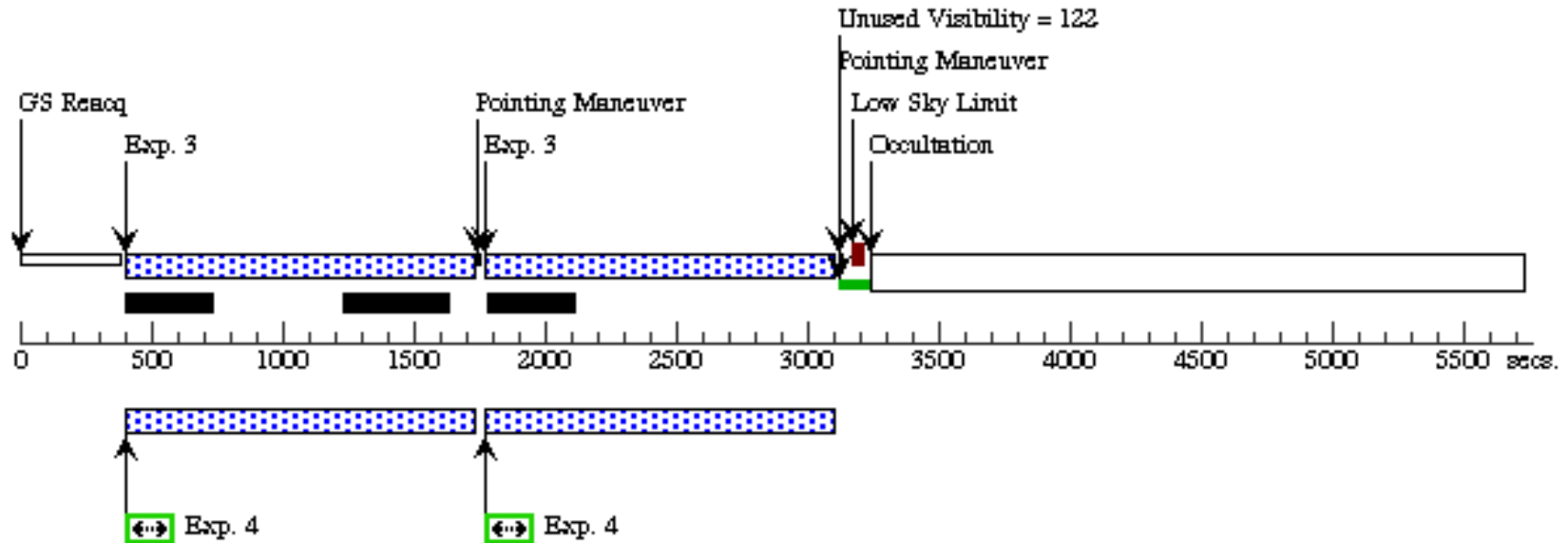
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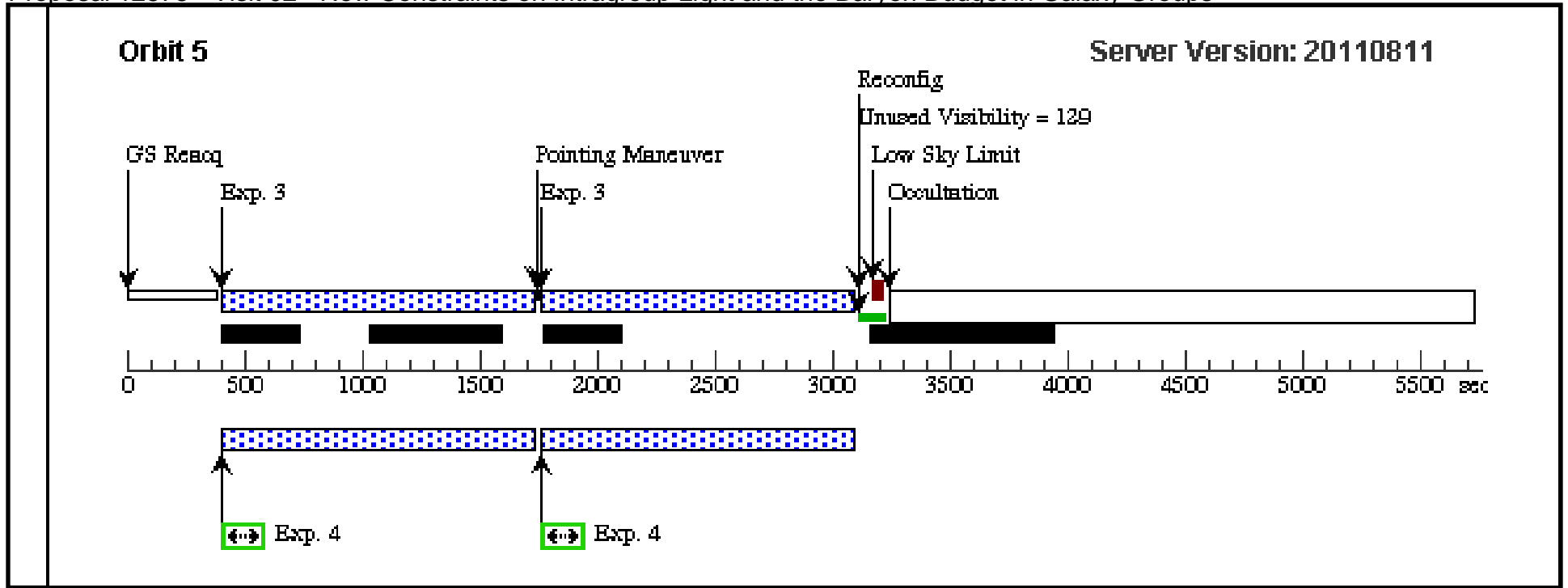
Server Version: 20110811



Orbit 4

Server Version: 20110811





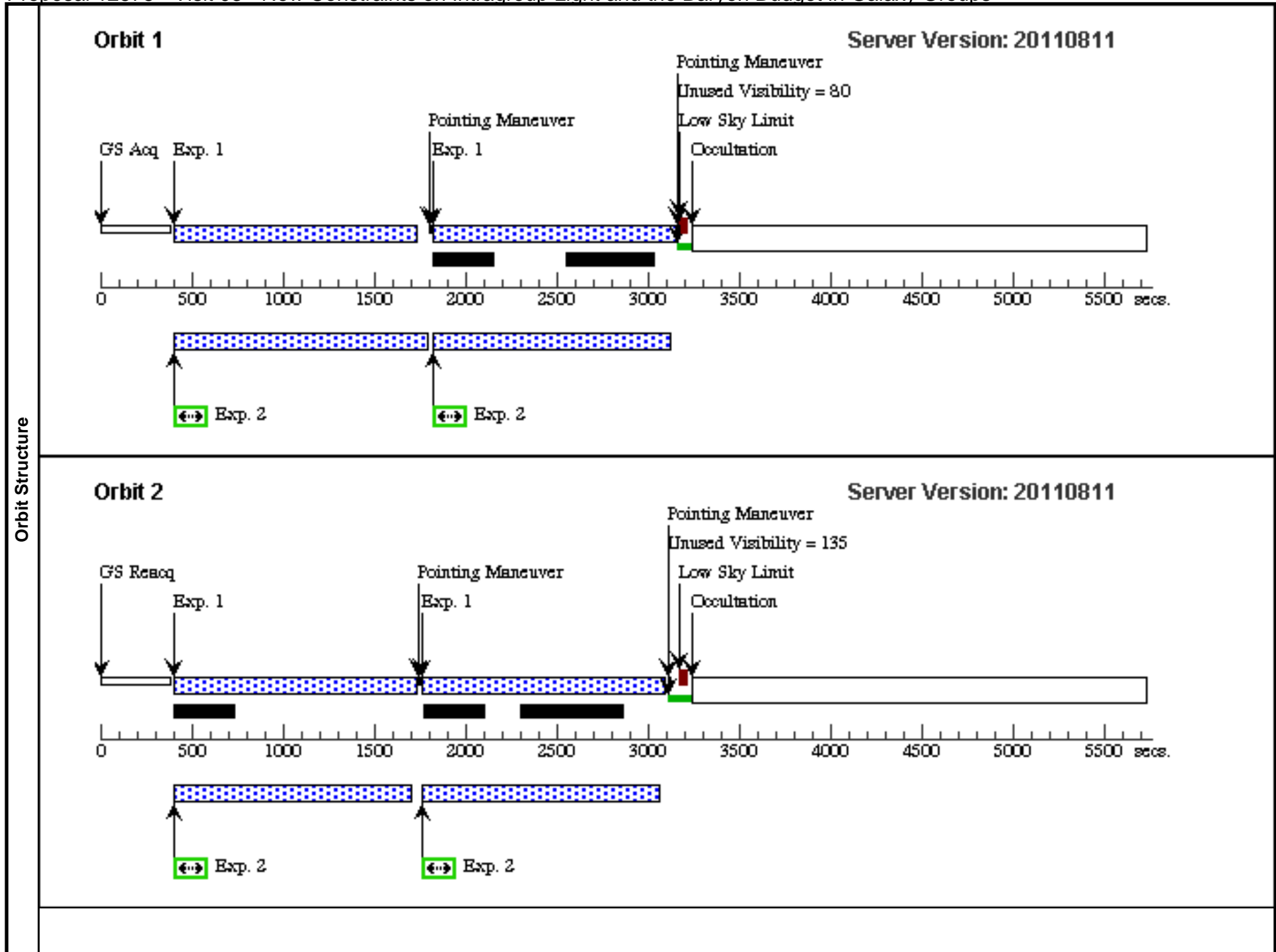
Proposal 12575 - Visit 03 - New Constraints on Intragroup Light and the Baryon Budget in Galaxy Groups

Fri Sep 09 01:41:59 GMT 2011

Visit	Proposal 12575, Visit 03, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: (none)					
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(5)		Pattern Type=WFC3-IR-DITHER-BLOB Purpose=OTHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=138.141 Angle Between Sides= Center Pattern=false	(3-4)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	SG1120-3	RA: 11 20 21.9130 (170.0913042d) Dec: -12 01 48.08 (-12.03002d) Equinox: J2000	Redshift: .3713	V=18+/-2	Reference Frame: ICRS

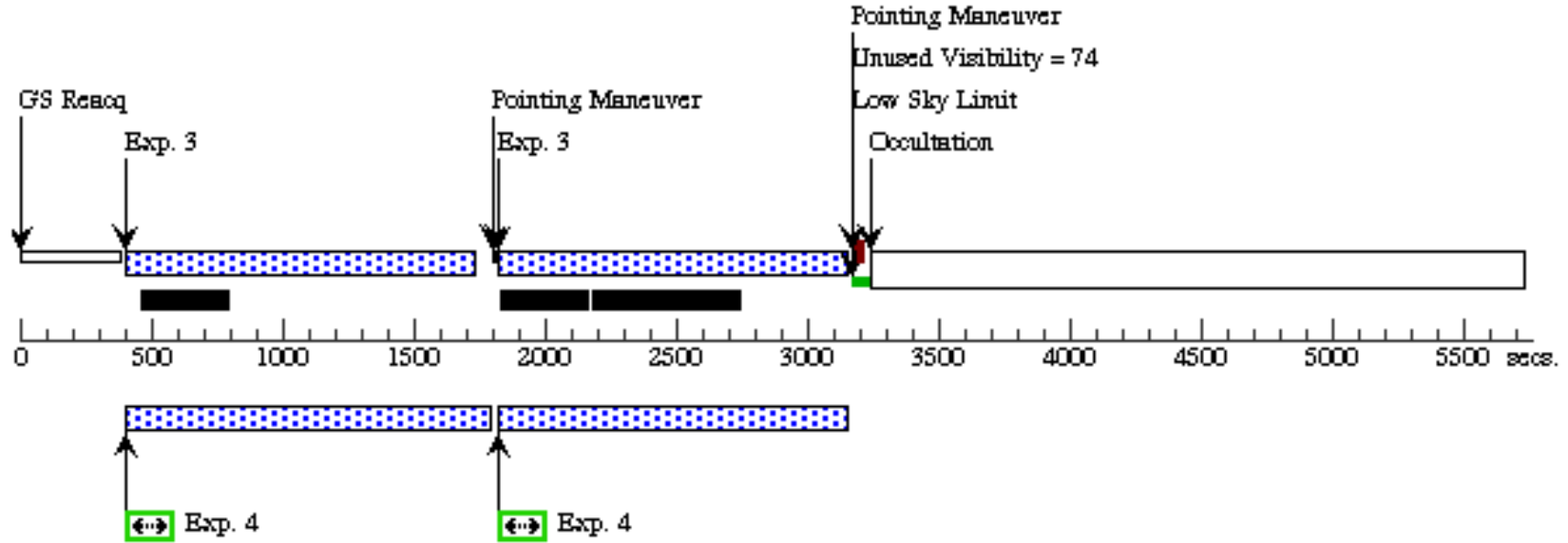
Proposal 12575 - Visit 03 - New Constraints on Intragroup Light and the Baryon Budget in Galaxy Groups

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									[==>(Pattern 2,1)]	[2]
	2	ANY	ACS/WFC, ACCUM, WFC-FIX	F606W				Pattern 4, Exps 1-2 in Visit 03 (4) Prime + Parallel Group 1-2 in Pattern 4, Exps 1-2 in Visit 03	1180 Secs	
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									[==>(Pattern 1,2)]	[2]
	3	(3) SG1120-3	WFC3/IR, MULTIACCUM, IR-FIX	F105W		NSAMP=14; SAMP-SEQ=SPAR S100	LOW-SKY	Pattern 5, Exps 3-4 in Visit 03 (5) Prime + Parallel Group 3-4 in Pattern 5, Exps 3-4 in Visit 03	[==>(Pattern 1,1)]	[3]
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[==>(Pattern 2,1)]										
[==>(Pattern 2,2)]									[5]	
4	ANY	ACS/WFC, ACCUM, WFC-FIX	F814W				Pattern 5, Exps 3-4 in Visit 03 (5) Prime + Parallel Group 3-4 in Pattern 5, Exps 3-4 in Visit 03	1210 Secs		
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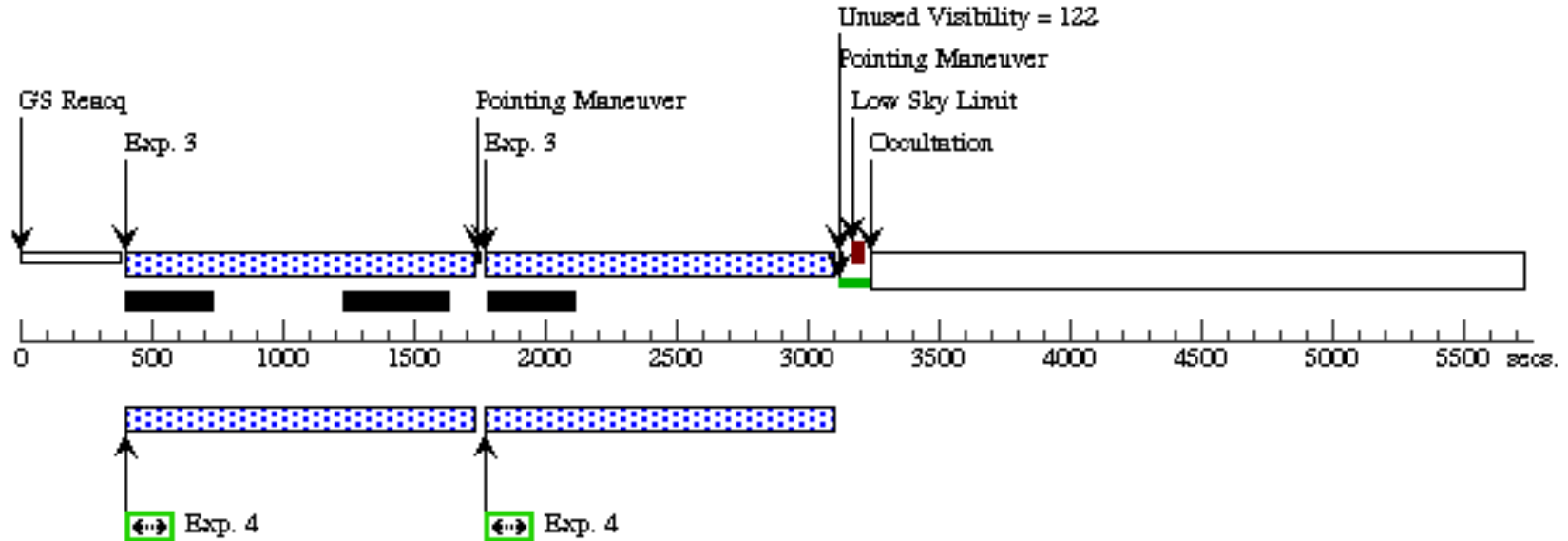
Orbit 3

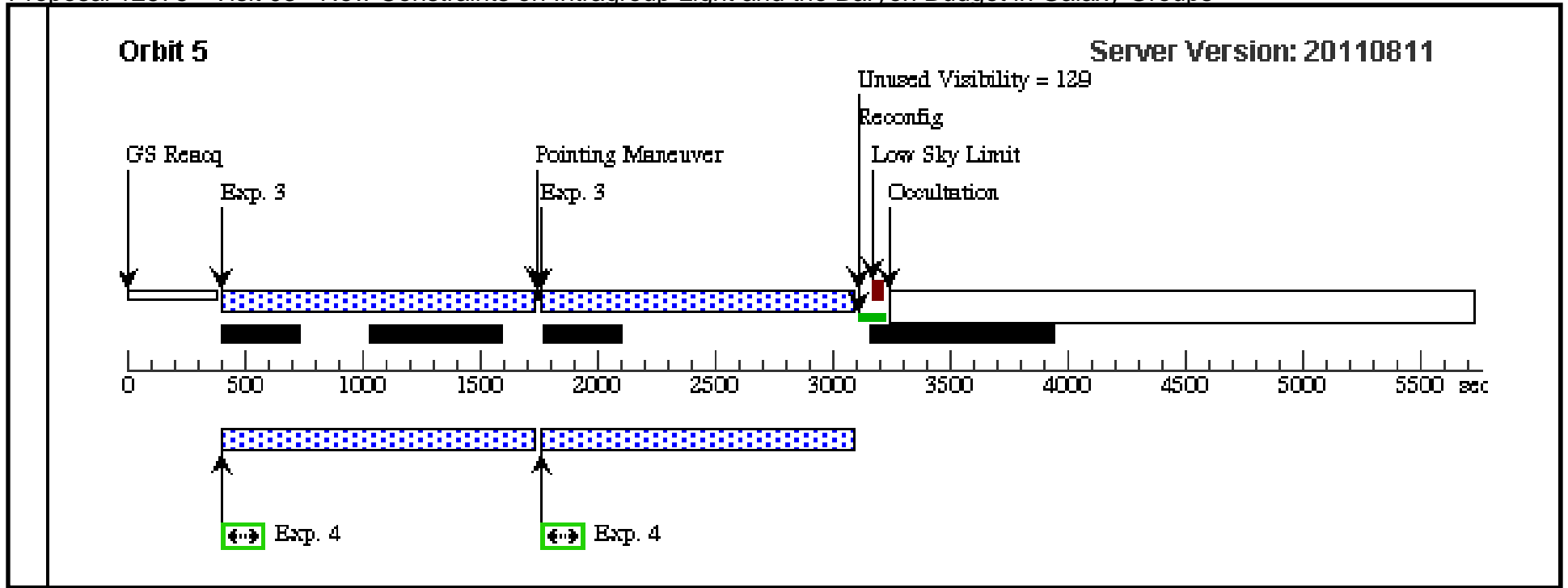
Server Version: 20110811



Orbit 4

Server Version: 20110811





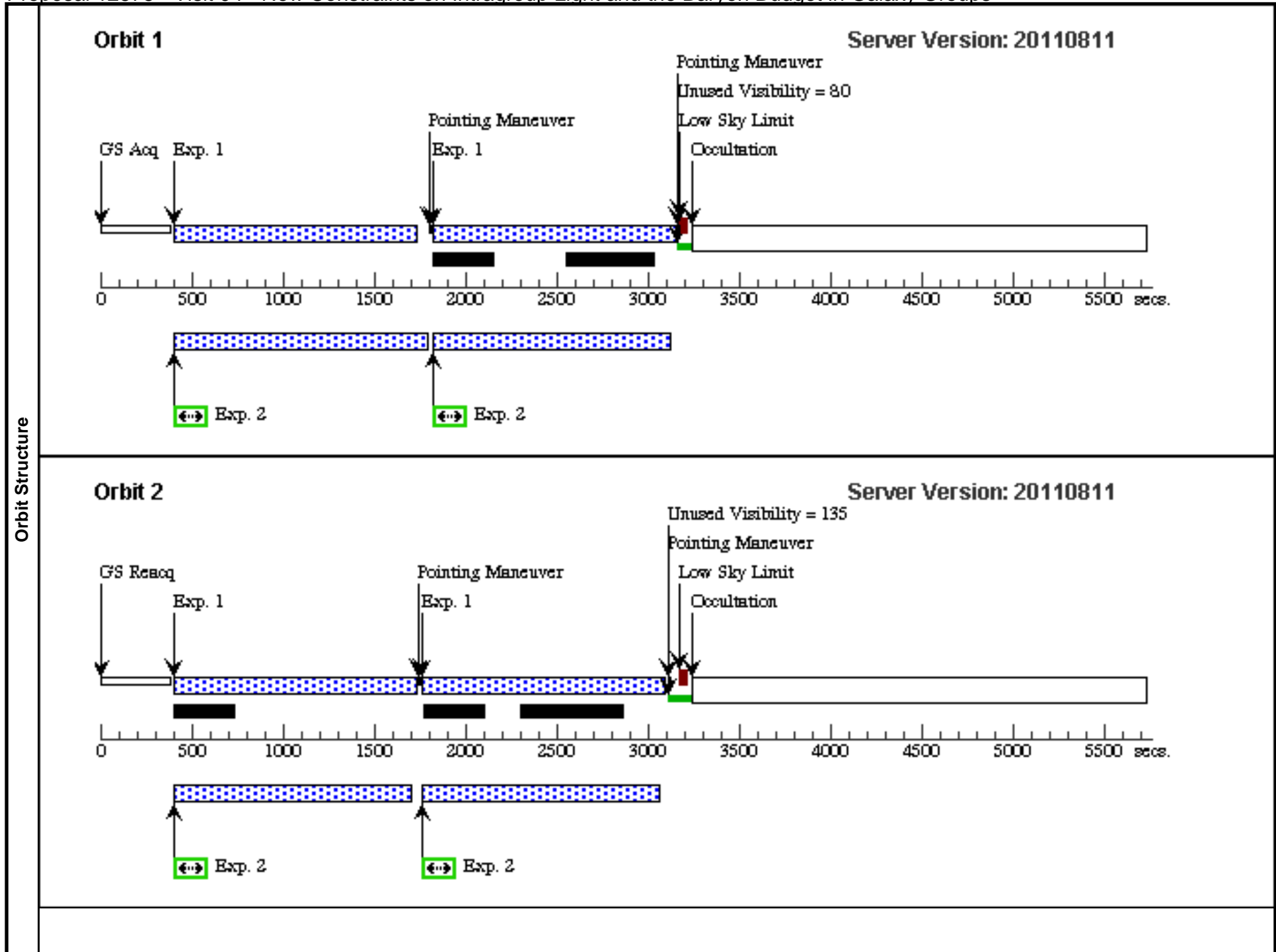
Proposal 12575 - Visit 04 - New Constraints on Intragroup Light and the Baryon Budget in Galaxy Groups

Fri Sep 09 01:42:00 GMT 2011

Visit	Proposal 12575, Visit 04, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: (none)					
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(5)		Pattern Type=WFC3-IR-DITHER-BLOB Purpose=OTHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=138.141 Angle Between Sides= Center Pattern=false	(3-4)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	SG1120-4	RA: 11 20 10.1460 (170.0422750d) Dec: -12 08 51.76 (-12.14771d) Equinox: J2000	Redshift: .3688	V=18+/-2	Reference Frame: ICRS

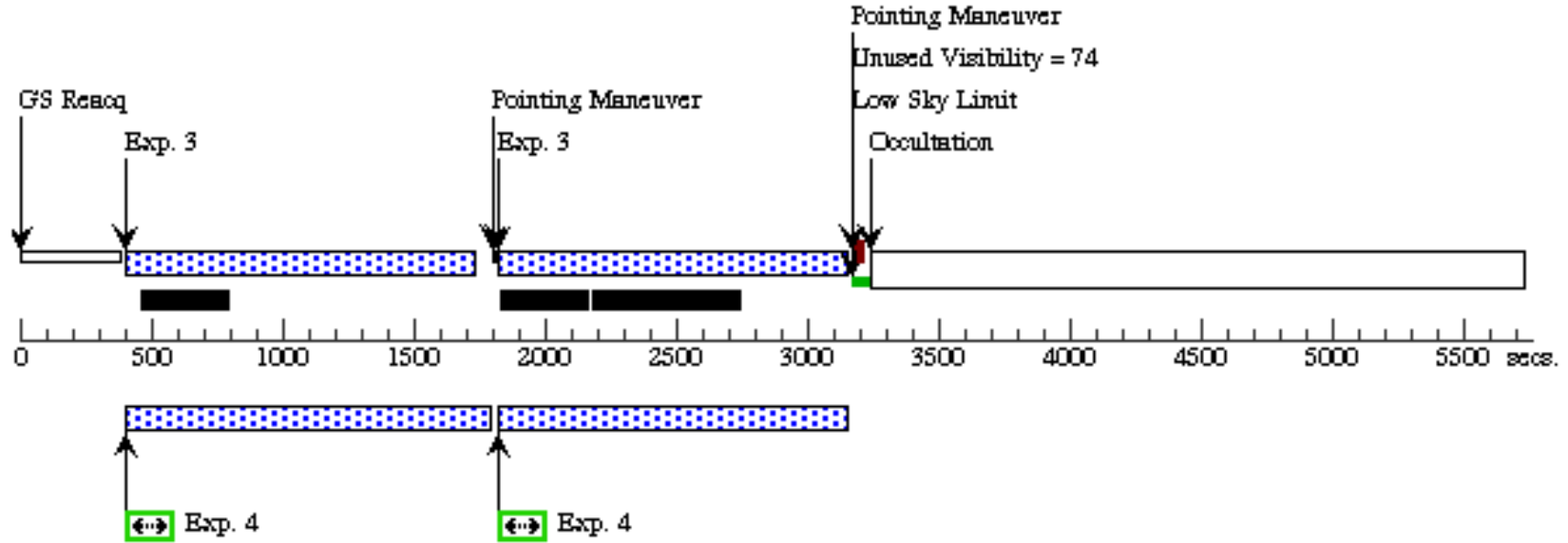
Proposal 12575 - Visit 04 - New Constraints on Intragroup Light and the Baryon Budget in Galaxy Groups

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
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	2	ANY	ACS/WFC, ACCUM, WFC-FIX	F606W				Pattern 4, Exps 1-2 in Visit 04 (4) Prime + Parallel Group 1-2 in Pattern 4, Exps 1-2 in Visit 04	1180 Secs	
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	3	(4) SG1120-4	WFC3/IR, MULTIACCUM, IR-FIX	F105W		NSAMP=14; SAMP-SEQ=SPAR S100	LOW-SKY	Pattern 5, Exps 3-4 in Visit 04 (5) Prime + Parallel Group 3-4 in Pattern 5, Exps 3-4 in Visit 04	[==>(Pattern 1,1)]	[3]
[==>(Pattern 1,2)]									[4]	
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								[==>(Pattern 2,3)]		
4	ANY	ACS/WFC, ACCUM, WFC-FIX	F814W				Pattern 5, Exps 3-4 in Visit 04 (5) Prime + Parallel Group 3-4 in Pattern 5, Exps 3-4 in Visit 04	1210 Secs		
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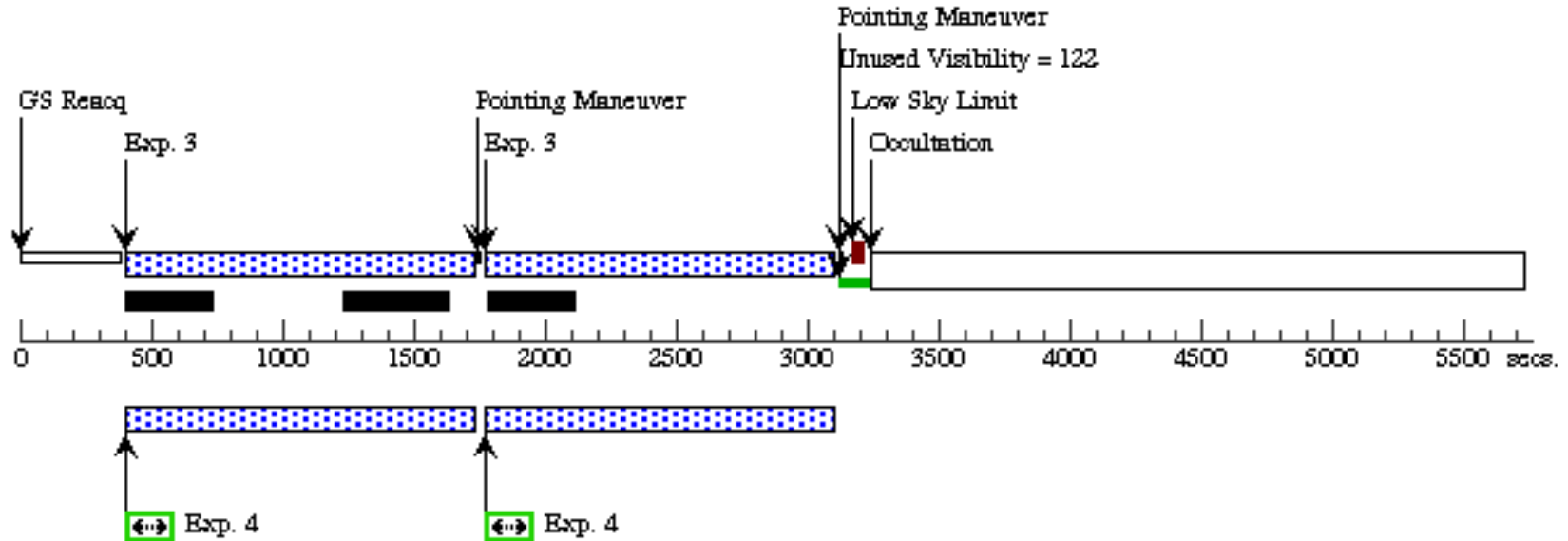
Orbit 3

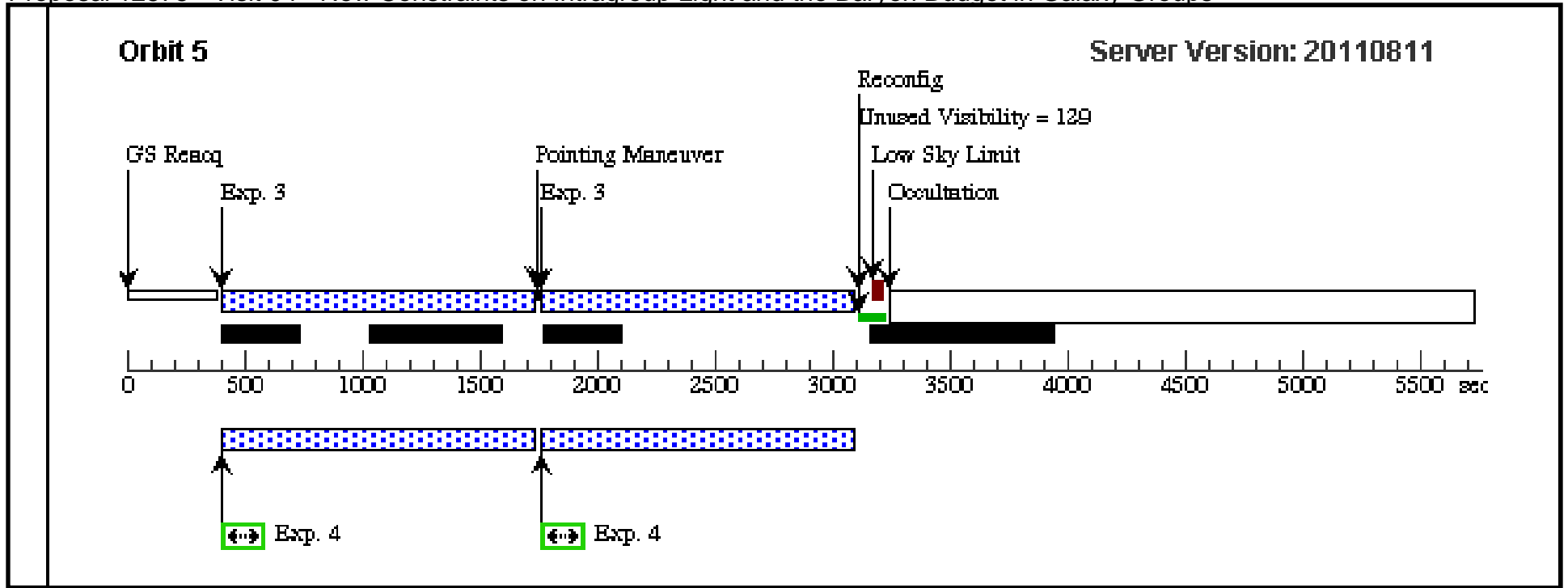
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Orbit 4

Server Version: 20110811

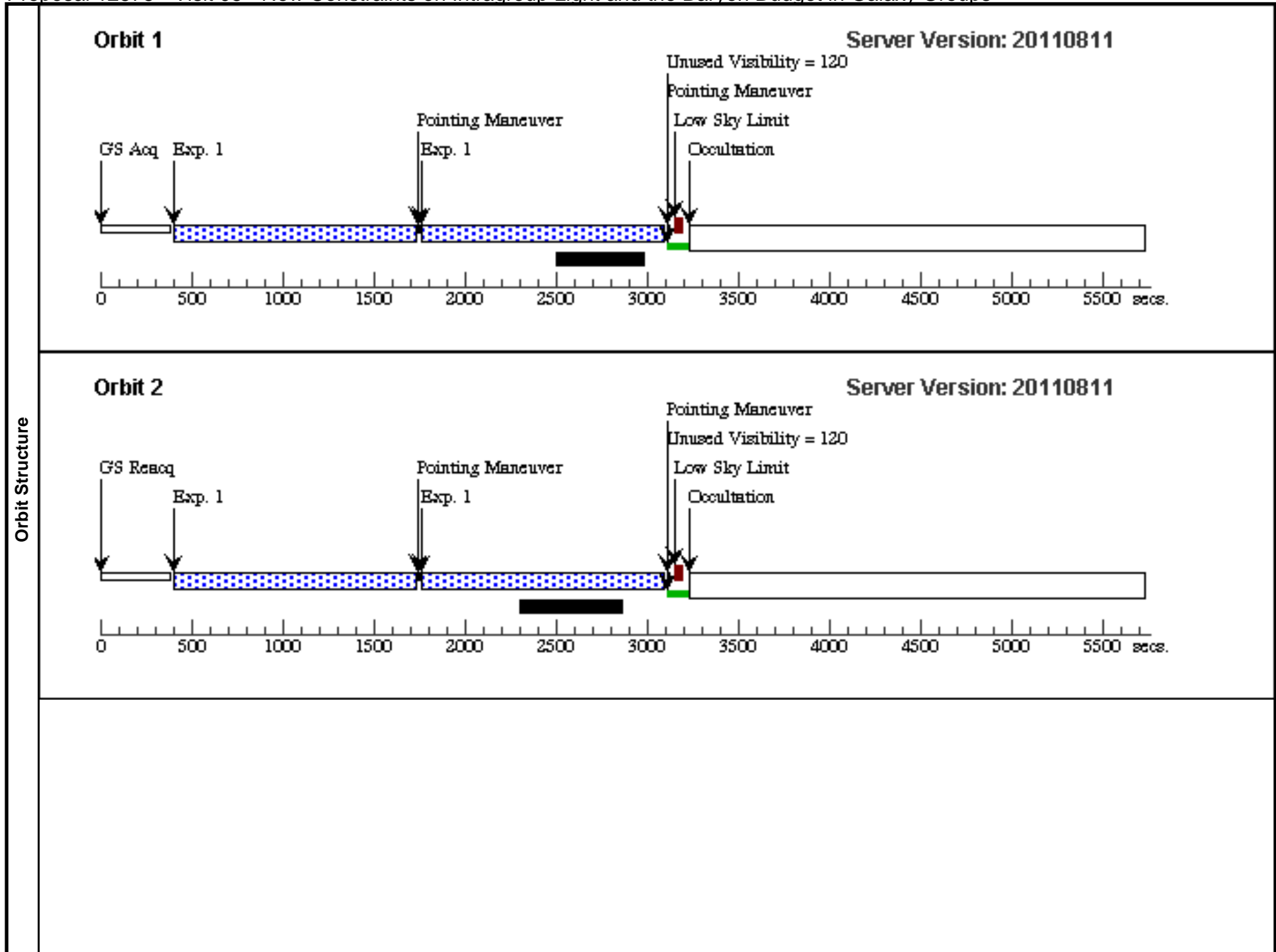




Proposal 12575 - Visit 05 - New Constraints on Intragroup Light and the Baryon Budget in Galaxy Groups

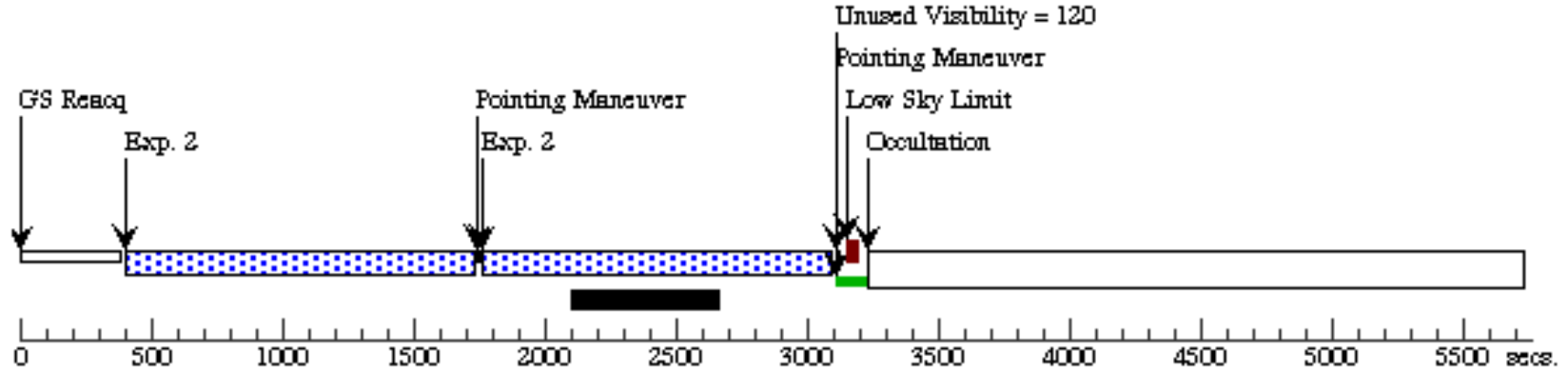
Fri Sep 09 01:42:01 GMT 2011

Visit	Proposal 12575, Visit 05, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
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	(5)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=OTHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=138.141 Angle Between Sides= Center Pattern=false	(2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	RXJ0329.0+0256	RA: 03 29 2.8200 (52.2617500d) Dec: +02 56 25.20 (2.94033d) Equinox: J2000	Redshift: .412	V=18+/-2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(5) RXJ0329.0+0256	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPAR S100	LOW-SKY	Pattern 4, Exps 1-1 i n Visit 05 (4)	[==>(Pattern 1,1)]	[1]
									[==>(Pattern 1,2)]	
									[==>(Pattern 2,1)]	[2]
									[==>(Pattern 2,2)]	
	2		(5) RXJ0329.0+0256	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=14; SAMP-SEQ=SPAR S100	LOW-SKY	Pattern 5, Exps 2-2 i n Visit 05 (5)	[==>(Pattern 1,1)]	[3]
								[==>(Pattern 1,2)]		
								[==>(Pattern 1,3)]	[4]	
								[==>(Pattern 2,1)]		
								[==>(Pattern 2,2)]		
								[==>(Pattern 2,3)]	[5]	



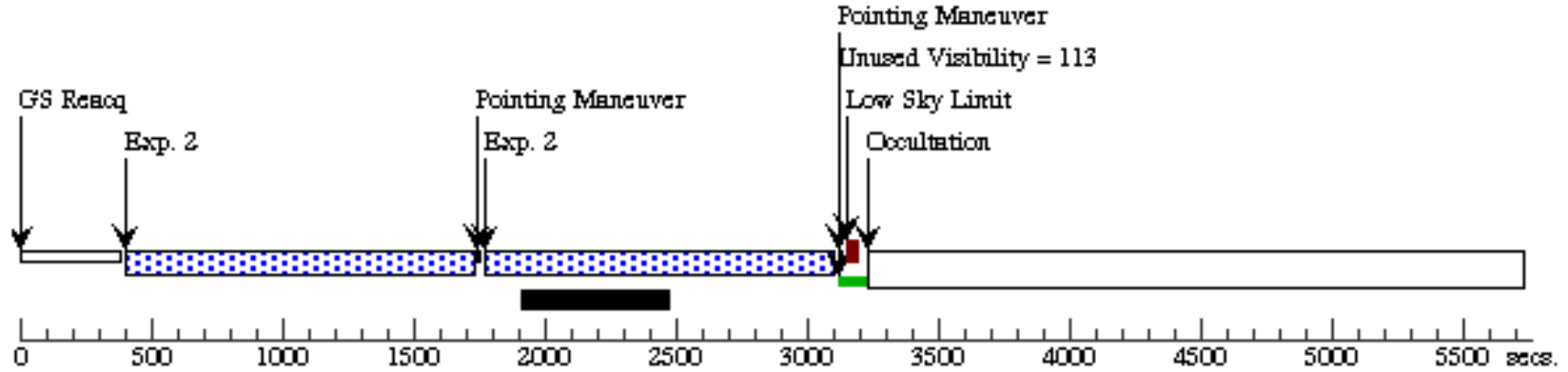
Orbit 3

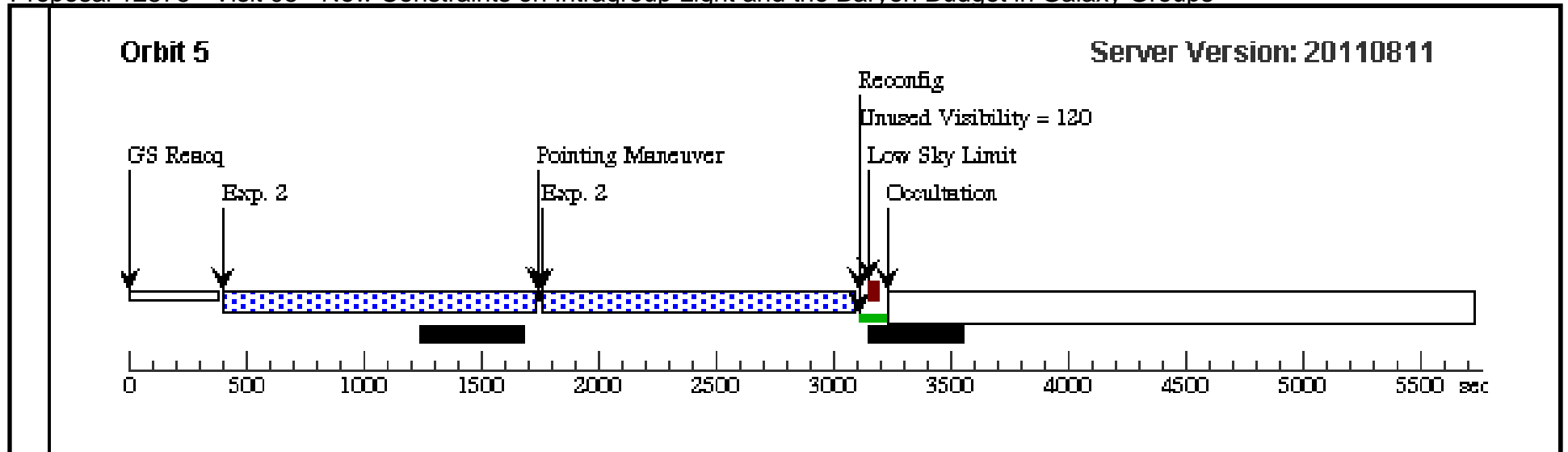
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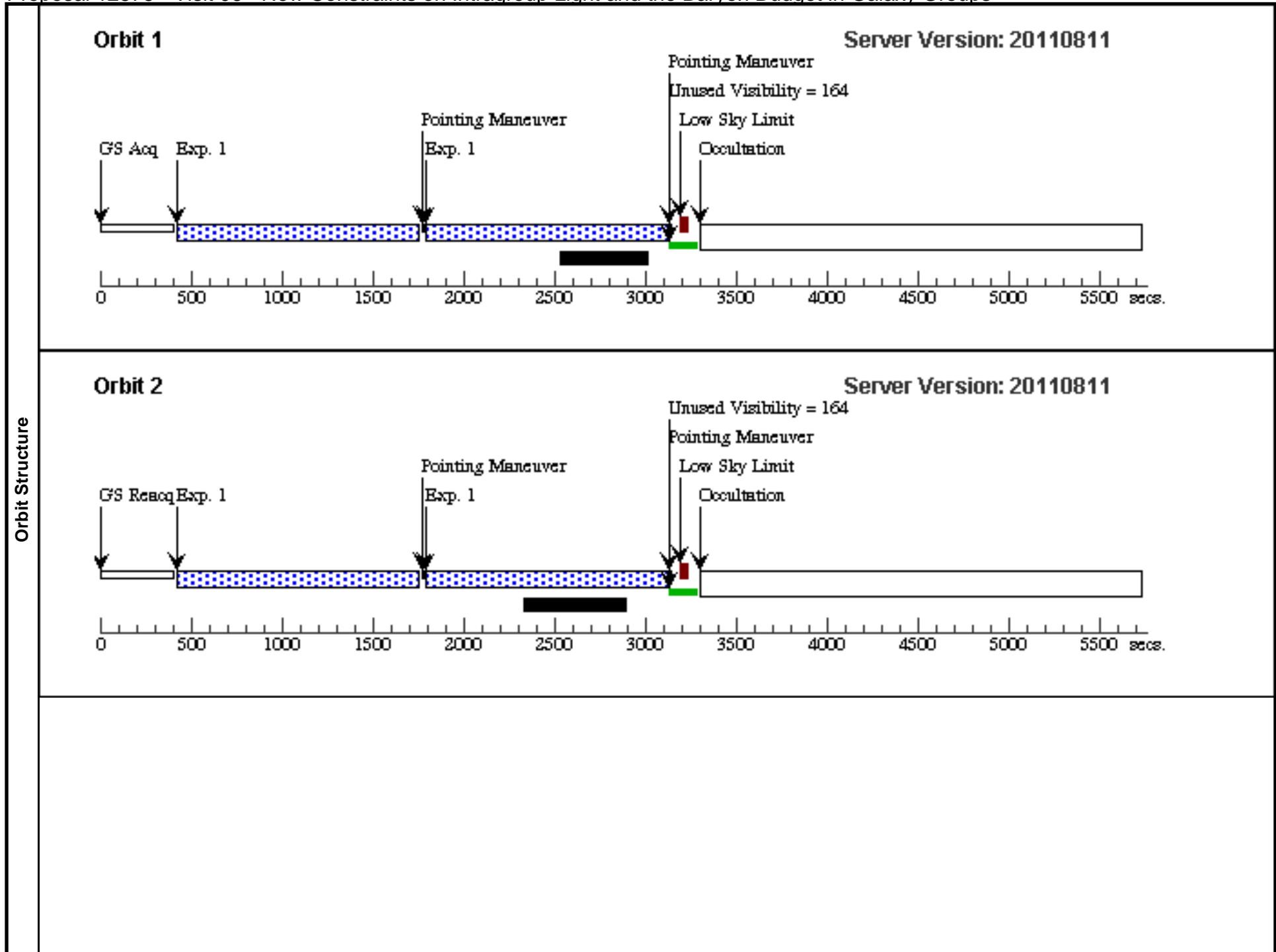




Proposal 12575 - Visit 06 - New Constraints on Intragroup Light and the Baryon Budget in Galaxy Groups

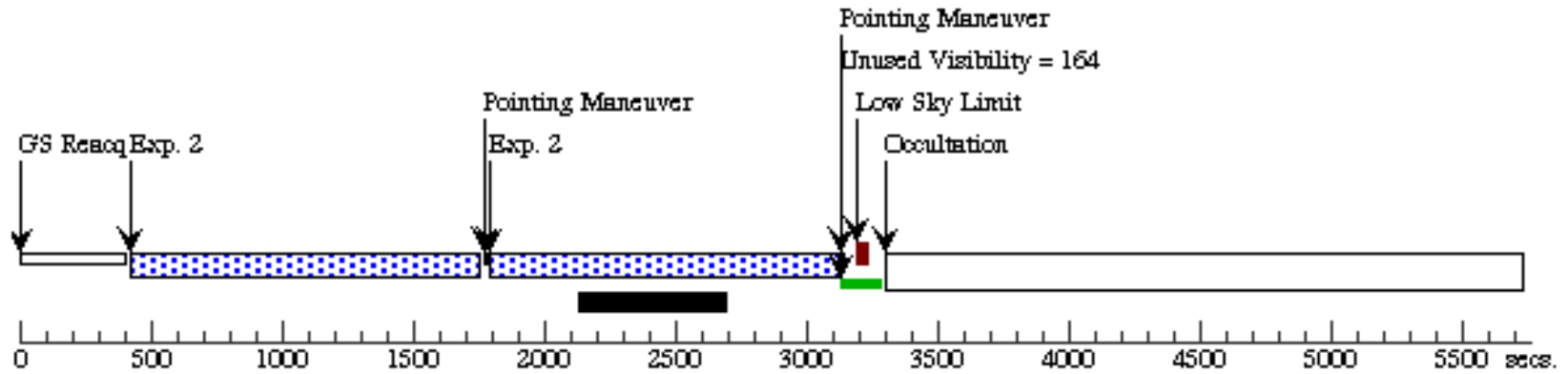
Fri Sep 09 01:42:02 GMT 2011

Visit	Proposal 12575, Visit 06, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	#	Primary Pattern		Secondary Pattern		Exposures				
Patterns	(4)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=OTHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=138.141 Angle Between Sides= Center Pattern=false	(1)				
	(5)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=OTHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=138.141 Angle Between Sides= Center Pattern=false	(2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	RXJ1334.0+3750	RA: 13 34 57.4000 (203.7391667d) Dec: +37 50 32.00 (37.84222d) Equinox: J2000	Redshift: .384	V=18+/-2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(6)	RXJ1334.0+3750	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPAR S100	LOW-SKY	Pattern 4, Exps 1-1 i n Visit 06 (4)	[==>(Pattern 1,1)]	[1]
									[==>(Pattern 1,2)]	
									[==>(Pattern 2,1)]	[2]
									[==>(Pattern 2,2)]	
	2	(6)	RXJ1334.0+3750	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=14; SAMP-SEQ=SPAR S100	LOW-SKY	Pattern 5, Exps 2-2 i n Visit 06 (5)	[==>(Pattern 1,1)]	[3]
[==>(Pattern 1,2)]										
								[==>(Pattern 1,3)]	[4]	
								[==>(Pattern 2,1)]		
								[==>(Pattern 2,2)]		
								[==>(Pattern 2,3)]	[5]	



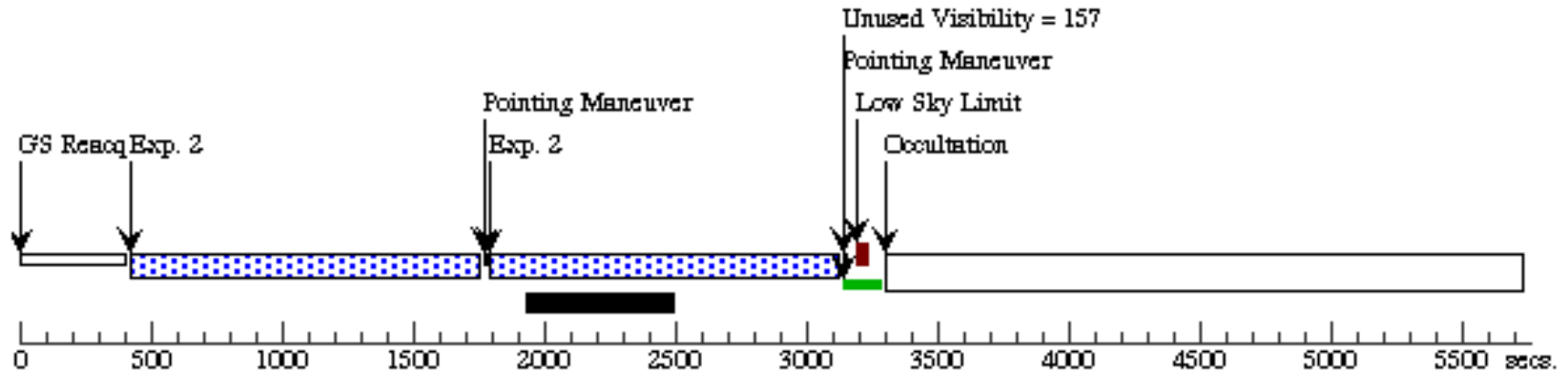
Orbit 3

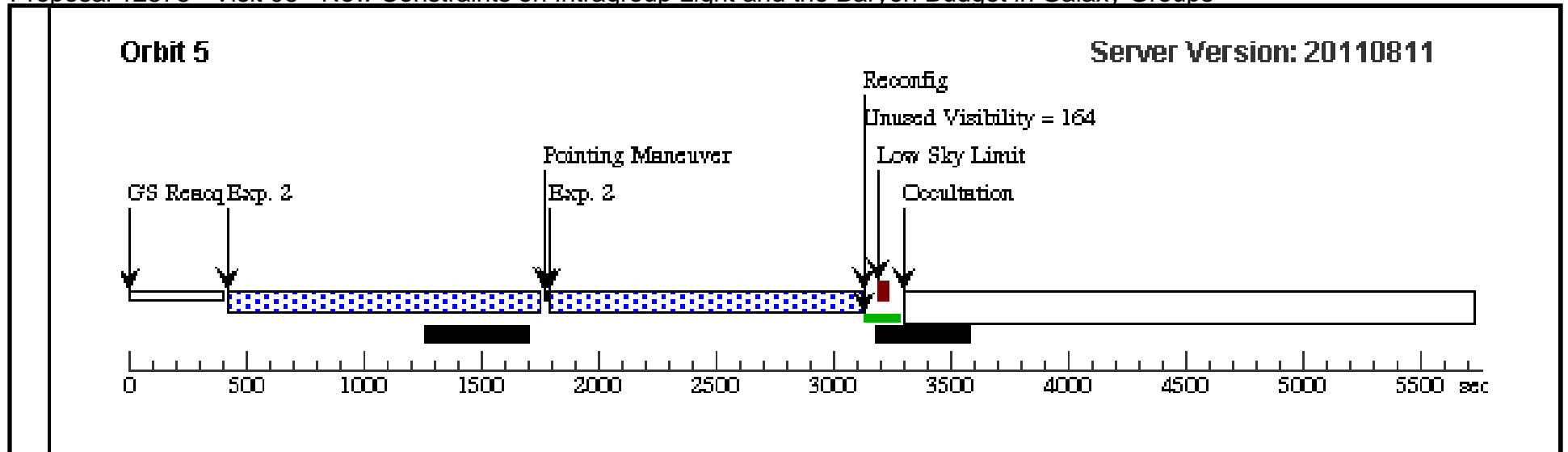
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Orbit 4

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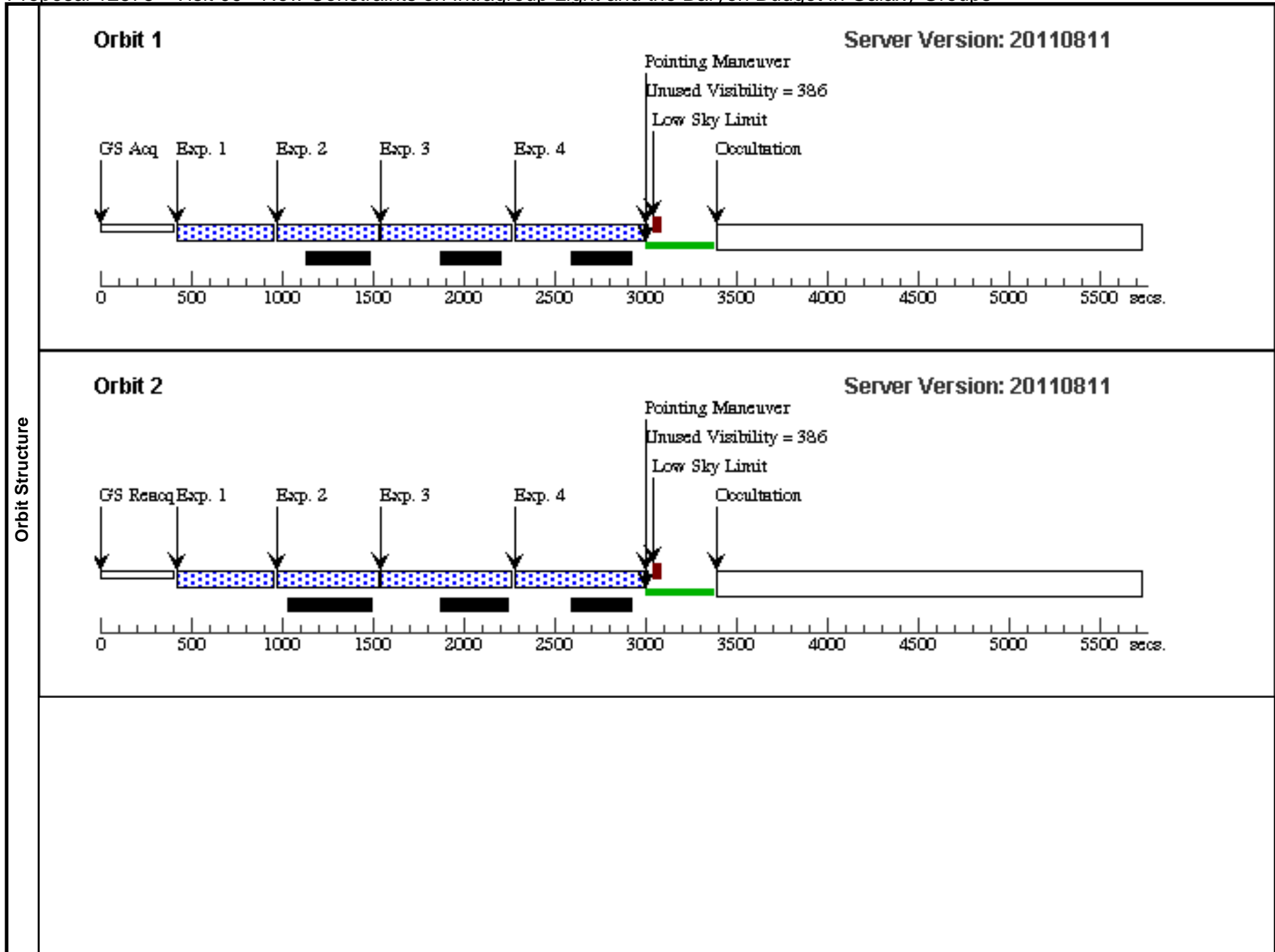




Proposal 12575 - Visit 09 - New Constraints on Intragroup Light and the Baryon Budget in Galaxy Groups

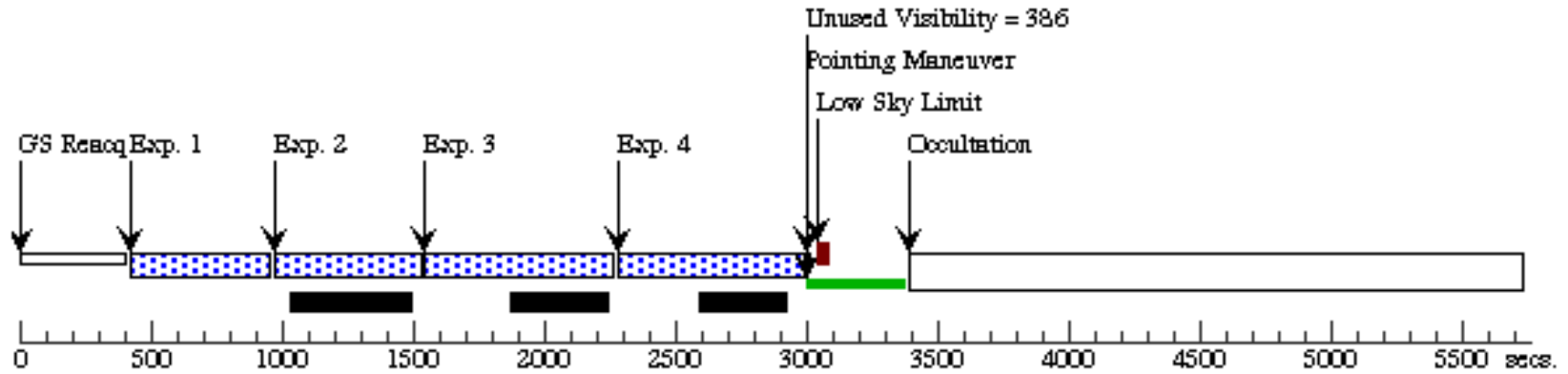
Fri Sep 09 01:42:03 GMT 2011

Visit	Proposal 12575, Visit 09, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) Comments: XMMXCS J011140.3-453908									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(4)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=OTHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	(1-4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	XMMXCSJ011140.3-453908	RA: 01 11 40.2120 (17.9175500d) Dec: -45 39 21.98 (-45.65611d) Equinox: J2000	Redshift: .37	V=18+/-2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(9) XMMXCSJ011140.3-453908	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=11; SAMP-SEQ=SPAR S50	LOW-SKY; GS ACQ SCENARI O BASE1B3	Pattern 4, Exps 1-4 in Visit 09 (4)	[==>(Pattern 1,1)]	[1]
									[==>(Pattern 1,2)]	[2]
									[==>(Pattern 2,1)]	[3]
									[==>(Pattern 2,2)]	[4]
	2		(9) XMMXCSJ011140.3-453908	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=12; SAMP-SEQ=SPAR S50	LOW-SKY	Pattern 4, Exps 1-4 in Visit 09 (4)	[==>(Pattern 1,1)]	[1]
									[==>(Pattern 1,2)]	[2]
									[==>(Pattern 2,1)]	[3]
									[==>(Pattern 2,2)]	[4]
	3		(9) XMMXCSJ011140.3-453908	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=15; SAMP-SEQ=SPAR S50	LOW-SKY	Pattern 4, Exps 1-4 in Visit 09 (4)	[==>(Pattern 1,1)]	[1]
									[==>(Pattern 1,2)]	[2]
									[==>(Pattern 2,1)]	[3]
									[==>(Pattern 2,2)]	[4]
	4		(9) XMMXCSJ011140.3-453908	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=15; SAMP-SEQ=SPAR S50	LOW-SKY	Pattern 4, Exps 1-4 in Visit 09 (4)	[==>(Pattern 1,1)]	[1]
									[==>(Pattern 1,2)]	[2]
									[==>(Pattern 2,1)]	[3]
								[==>(Pattern 2,2)]	[4]	



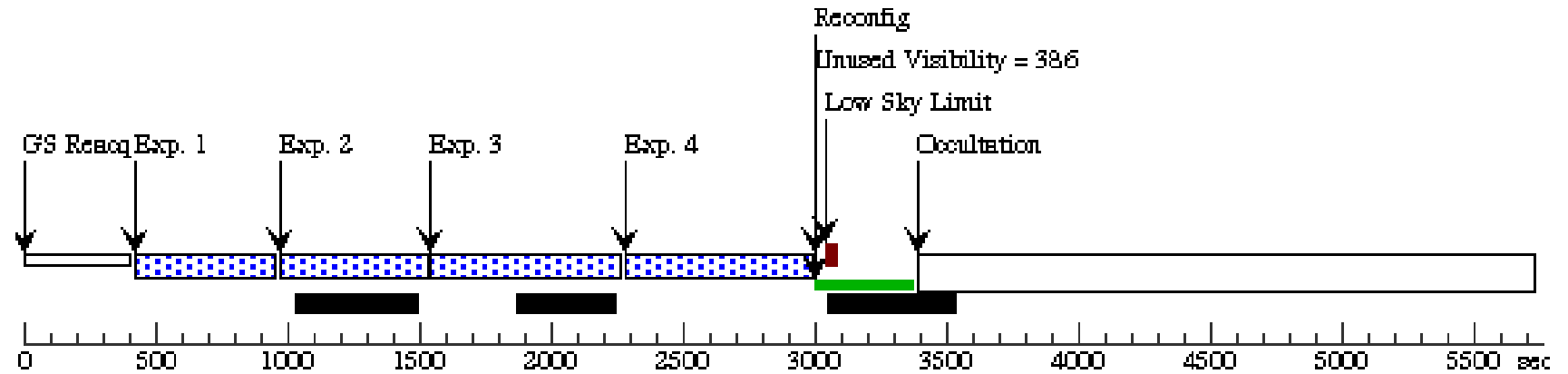
Orbit 3

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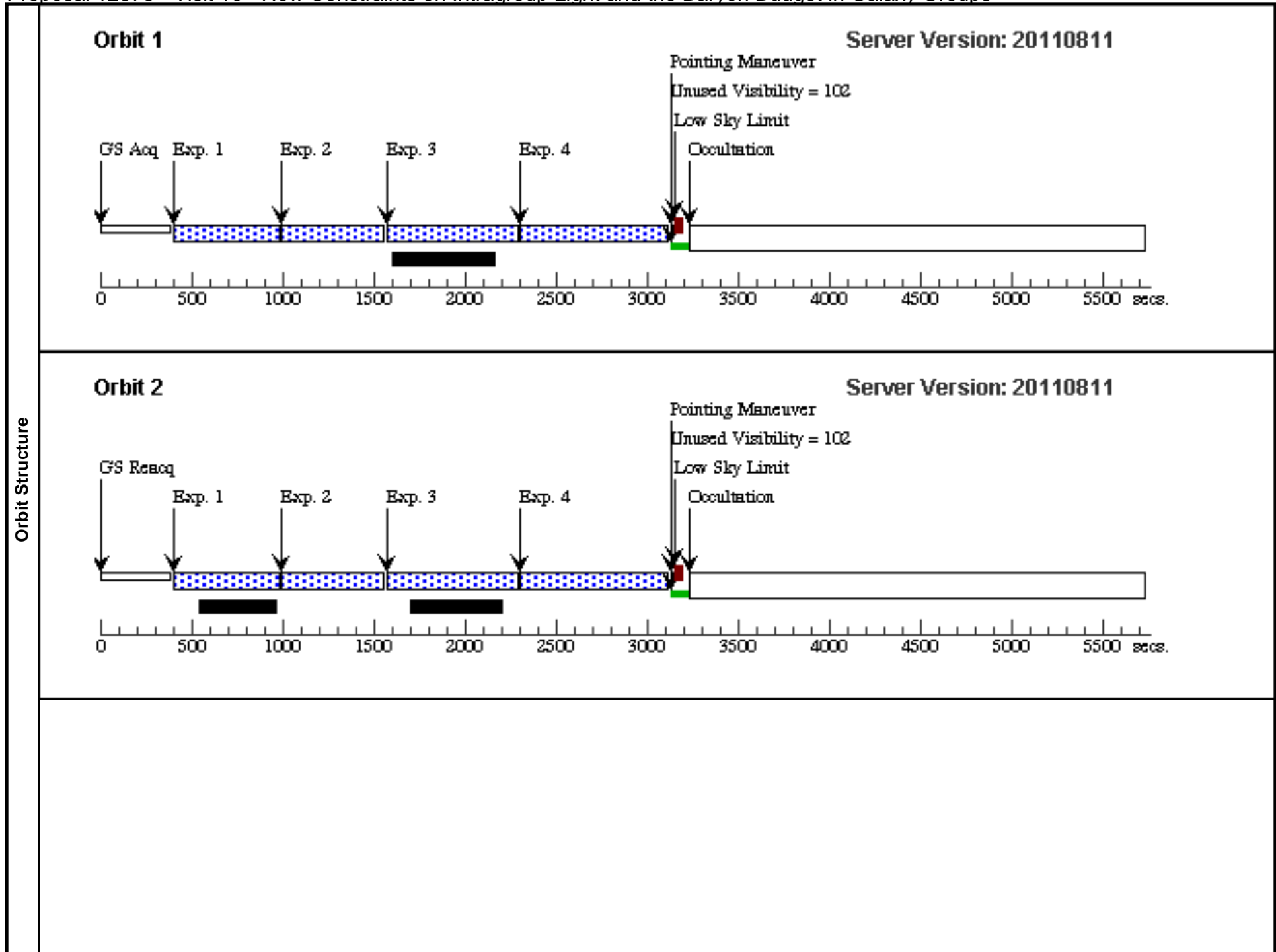
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Proposal 12575 - Visit 10 - New Constraints on Intragroup Light and the Baryon Budget in Galaxy Groups

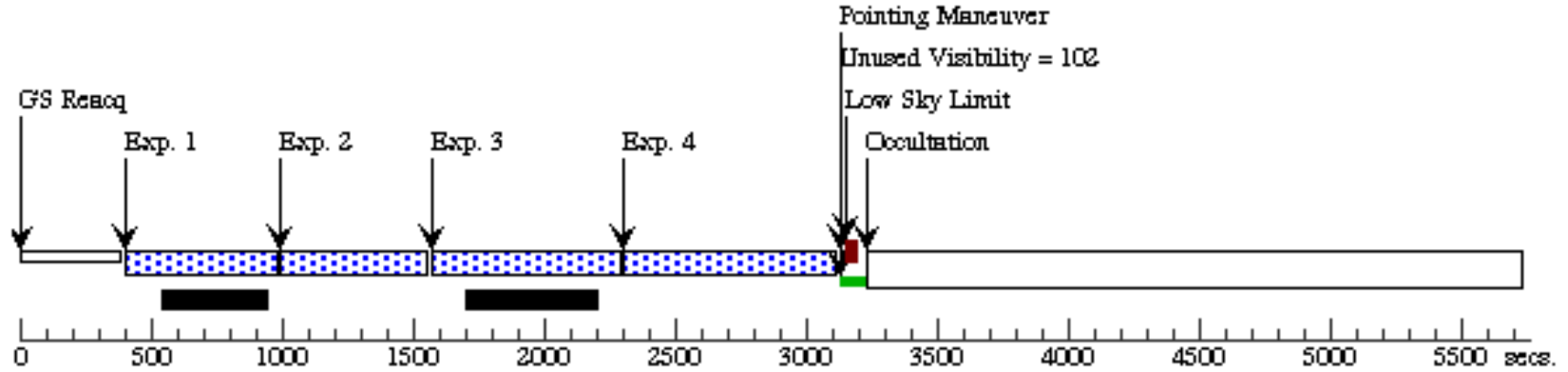
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Visit	Proposal 12575, Visit 10, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) Comments: XMMXCS J022045.1-032555									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(4)	Pattern Type=WFC3-IR-DITHER- BLOB Purpose=OTHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	(1-4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	XMMXCSJ022045.1-032555.0	RA: 02 20 45.4940 (35.1895583d) Dec: -03 25 59.86 (-3.43329d) Equinox: J2000	Redshift: .33	V=18+/-2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(10) XMMXCSJ022045.1-032555.0	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=12; SAMP-SEQ=SPAR S50	LOW-SKY; GS ACQ SCENARI O BASE1B3	Pattern 4, Exps 1-4 in Visit 10 (4)	[==>(Pattern 1,1)]	[1]
									[==>(Pattern 1,2)]	[2]
									[==>(Pattern 2,1)]	[3]
									[==>(Pattern 2,2)]	[4]
	2		(10) XMMXCSJ022045.1-032555.0	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=12; SAMP-SEQ=SPAR S50	LOW-SKY	Pattern 4, Exps 1-4 in Visit 10 (4)	[==>(Pattern 1,1)]	[1]
									[==>(Pattern 1,2)]	[2]
									[==>(Pattern 2,1)]	[3]
									[==>(Pattern 2,2)]	[4]
	3		(10) XMMXCSJ022045.1-032555.0	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=8; SAMP-SEQ=SPAR S100	LOW-SKY	Pattern 4, Exps 1-4 in Visit 10 (4)	[==>(Pattern 1,1)]	[1]
									[==>(Pattern 1,2)]	[2]
									[==>(Pattern 2,1)]	[3]
									[==>(Pattern 2,2)]	[4]
	4		(10) XMMXCSJ022045.1-032555.0	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=9; SAMP-SEQ=SPAR S100	LOW-SKY	Pattern 4, Exps 1-4 in Visit 10 (4)	[==>(Pattern 1,1)]	[1]
									[==>(Pattern 1,2)]	[2]
									[==>(Pattern 2,1)]	[3]
								[==>(Pattern 2,2)]	[4]	



Orbit 3

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Orbit 4

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