



14240 - Mapping the circumgalactic medium of two large spiral galaxies

Cycle: 23, Proposal Category: GO

(UV Initiative)

(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) FIRSTJ09086+3246	COS/FUV COS/NUV	3	05-Dec-2015 21:02:30.0	yes
02	(2) TON1015	COS/FUV COS/NUV	2	05-Dec-2015 21:02:33.0	yes
03	(3) SDSSJ091127.30+325337.0	COS/FUV COS/NUV	4	05-Dec-2015 21:02:37.0	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>
04	(4) SDSSJ091052.80+333008.0	COS/FUV COS/NUV	3	05-Dec-2015 21:02:40.0	yes
05	(5) SDSSJ111740.50+530150.0	COS/FUV COS/NUV	2	05-Dec-2015 21:02:42.0	yes
06	(6) SDSSJ112448.30+531818.0	COS/FUV COS/NUV	3	05-Dec-2015 21:02:46.0	yes
07	(7) RBS971	COS/FUV COS/NUV	4	05-Dec-2015 21:02:50.0	yes
08	(8) SDSSJ111443.70+525834.0	COS/FUV COS/NUV	5	05-Dec-2015 21:02:54.0	yes
09	(9) SBS1116+523	COS/FUV COS/NUV	2	05-Dec-2015 21:02:58.0	yes

28 Total Orbits Used

ABSTRACT

The distribution and kinematics of the gas flows around galaxies provide important observational constraints on models of structure formation and galaxy formation/evolution. Current observational constraints on the motions, density and ionization of material around galaxies are based on ensembles consisting of many single sightlines crossing halos of individual galaxies of different types, masses and orientations. One of the original goals set for COS was to take the next step: mapping the gas around a single galaxy using multiple sightlines, to get around the biases affecting ensemble studies. We propose a 28-orbit observing program to obtain COS G130M spectra of 9 quasars that sample HI at $\log N(\text{HI}) = 13\text{-}15$ in the circumgalactic medium of the nearby isolated edge-on $\sim 3 L^*$ spiral NGC2770 and the nearby, isolated face-on $\sim 2.5 L^*$ spiral NGC3631, at impact parameters of ~ 200 to 400 kpc ($0.7\text{-}1.5$ times the virial radius). We will determine the column densities, kinematics and line widths of HI Ly α as function of impact parameter, without confounding factors due to mixing different galaxies. We will compare these measurements with results of cosmological simulations of similar-sized galaxies, providing a unique view of the density structure of and large-scale gas flows around isolated, large spirals.

OBSERVING DESCRIPTION

There are 9 targets in this program, which are to be observed for 2, 3, 4 or 5 orbits each.

The setup is as follows:

First do an ACQ/SEARCH, with SCAN-SIZE=3, with exposure times calculated with the COS ETC, G130M-1327 to get S/N=40, using the target flux as found from GALEX data.

Next do ACQ/PEAKXD and ACQ/PEAKD to completely center.

This takes about 900 seconds.

Then take spectra with central wavelength set to both 1327 and 1291, in order to get the maximum wavelength coverage (1134 to 1468 Å), even though at the edges the S/N will be lower. However, the extra 40 Å each end is useful to be able to identify more Ly α or metal lines.

For a two orbit target, the first orbit has a 1327 setting, using FP-POS=1,2,3,4. Then in the second orbit 1291 is used with FP-POS=1,2,3,4 for half the orbit each.

For a three orbit target, the first two orbits have 1327 FP-POS=1,2,3,4, while the third orbit uses 1291 FP-POS=1,2,3,4

For a four orbit target, the first two orbits have 1327 FP-POS=1,2,3,4, while the third and fourth orbit have 1291 FP-POS=1,2,3,4

For a five orbit target, the first three orbits have 1327 FP-POS=1,2,3,4, while the third and fourth orbit have 1291 FP-POS=1,2,3,4

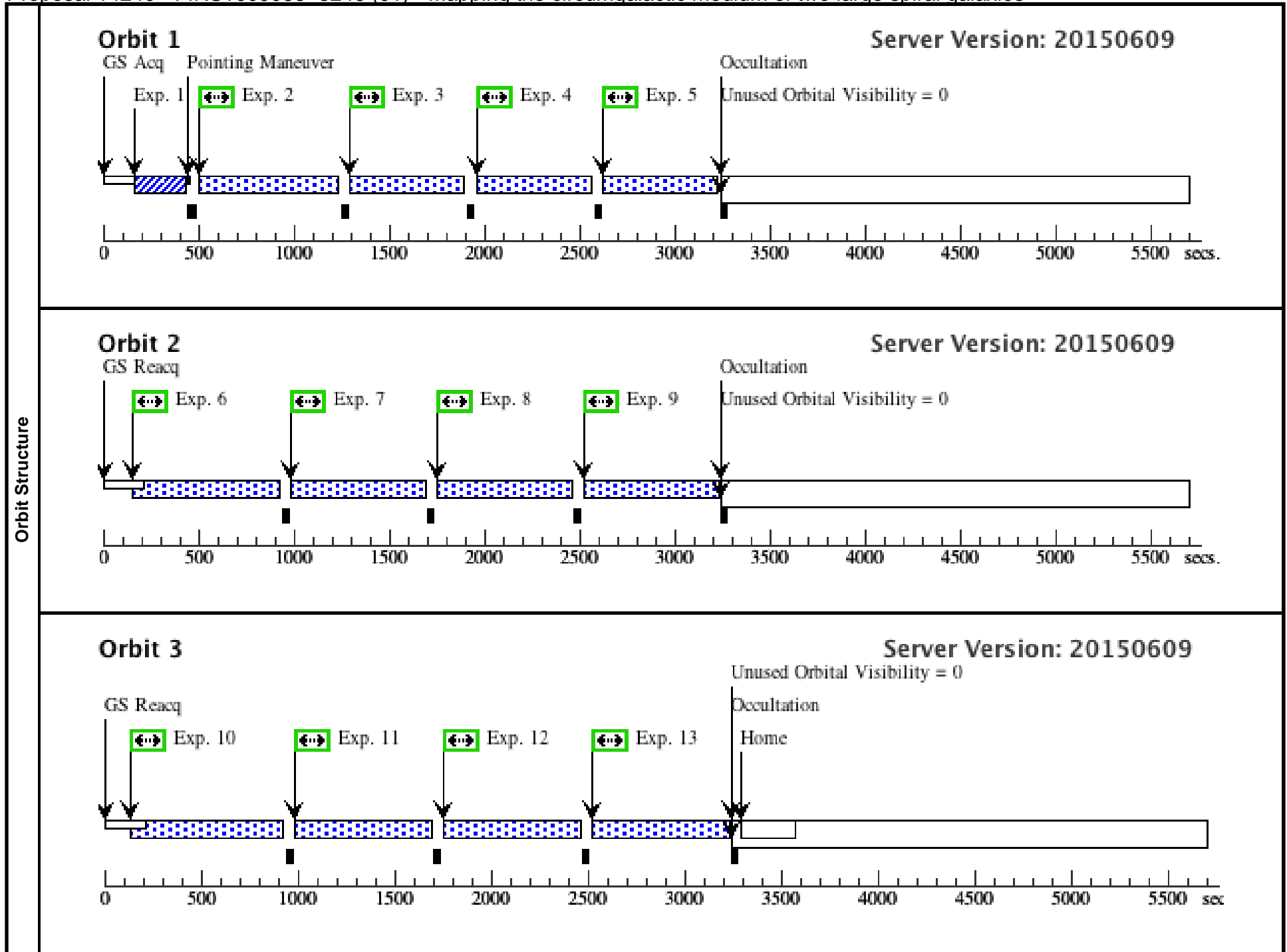
Proposal 14240 - FIRSTJ09086+3246 (01) - Mapping the circumgalactic medium of two large spiral galaxies

Sun Dec 06 02:02:59 GMT 2015

Visit	<p>Proposal 14240, FIRSTJ09086+3246 (01), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p>																
Diagnostics	<p>(FIRSTJ09086+3246 (01)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS</p> <p>(FIRSTJ09086+3246 (01)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.</p>																
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>(1)</td> <td>FIRSTJ09086+3246</td> <td>RA: 09 08 38.8000 (137.1616667d) Dec: +32 46 20.50 (32.77236d) Equinox: J2000</td> <td>Redshift: 0.259</td> <td>V=18.47+/-0.1 FUV=0.14E-14</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Extended=NO</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	FIRSTJ09086+3246	RA: 09 08 38.8000 (137.1616667d) Dec: +32 46 20.50 (32.77236d) Equinox: J2000	Redshift: 0.259	V=18.47+/-0.1 FUV=0.14E-14	Reference Frame: ICRS				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(1)	FIRSTJ09086+3246	RA: 09 08 38.8000 (137.1616667d) Dec: +32 46 20.50 (32.77236d) Equinox: J2000	Redshift: 0.259	V=18.47+/-0.1 FUV=0.14E-14	Reference Frame: ICRS												

Proposal 14240 - FIRSTJ09086+3246 (01) - Mapping the circumgalactic medium of two large spiral galaxies

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	FIRSTJ0908 6-ACQ/IMA GE (COS.ta.753 693)	(1) FIRSTJ09086+32 46	COS/NUV, ACQ/IMAGE, PSA	MIRRORA			22 Secs (22 Secs) [==>]	[1]	
	<i>Comments: NUV acquisition exposure COS ETC result for S/N=40; GALEX M(NUV)=18.65 => 11 sec Count rate 1088/sec</i>									
	2	FIRSTJ0908 6-a1327.1 (COS.sp.753 720)	(1) FIRSTJ09086+32 46	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=1; BUFFER-TIME=37 74			550 Secs (550 Secs) [==>]	[1]
	<i>Comments: Total on-source exposure time 7432 sec; SN=9.5 id=COS.sp.753720</i>									
	3	FIRSTJ0908 6-a1327.2 (COS.sp.753 720)	(1) FIRSTJ09086+32 46	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=2; BUFFER-TIME=37 74			550 Secs (550 Secs) [==>]	[1]
	4	FIRSTJ0908 6-a1327.3 (COS.sp.753 720)	(1) FIRSTJ09086+32 46	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=3; BUFFER-TIME=37 74			550 Secs (550 Secs) [==>]	[1]
	5	FIRSTJ0908 6-a1327.4 (COS.sp.753 720)	(1) FIRSTJ09086+32 46	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=4; BUFFER-TIME=37 74			550 Secs (550 Secs) [==>]	[1]
	6	FIRSTJ0908 6-b1327.1 (COS.sp.753 720)	(1) FIRSTJ09086+32 46	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=1; BUFFER-TIME=37 74			654 Secs (654 Secs) [==>]	[2]
	7	FIRSTJ0908 6-b1327.2 (COS.sp.753 720)	(1) FIRSTJ09086+32 46	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=2; BUFFER-TIME=37 74			654 Secs (654 Secs) [==>]	[2]
	8	FIRSTJ0908 6-b1327.3 (COS.sp.753 720)	(1) FIRSTJ09086+32 46	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=3; BUFFER-TIME=37 74			653 Secs (653 Secs) [==>]	[2]
	9	FIRSTJ0908 6-b1327.4 (COS.sp.753 720)	(1) FIRSTJ09086+32 46	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=4; BUFFER-TIME=37 74			653 Secs (653 Secs) [==>]	[2]
	10	FIRSTJ0908 6-c1291.1 (COS.sp.753 720)	(1) FIRSTJ09086+32 46	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=37 74			654 Secs (654 Secs) [==>]	[3]
	11	FIRSTJ0908 6-c1291.2 (COS.sp.753 720)	(1) FIRSTJ09086+32 46	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=37 74			654 Secs (654 Secs) [==>]	[3]
12	FIRSTJ0908 6-c1291.3 (COS.sp.753 720)	(1) FIRSTJ09086+32 46	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=37 74			653 Secs (653 Secs) [==>]	[3]	
13	FIRSTJ0908 6-c1291.4 (COS.sp.753 720)	(1) FIRSTJ09086+32 46	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=37 74			653 Secs (653 Secs) [==>]	[3]	



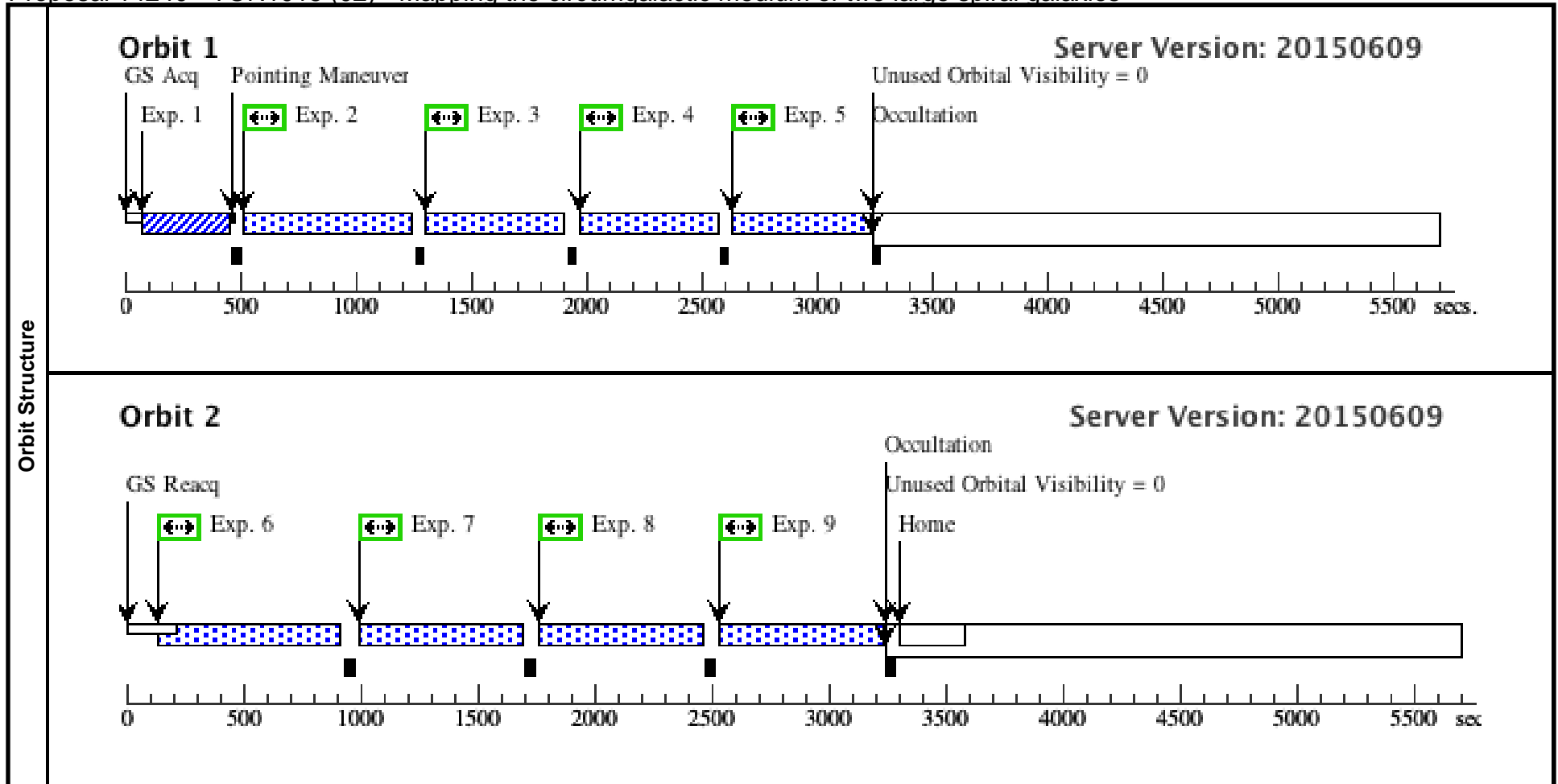
Proposal 14240 - TON1015 (02) - Mapping the circumgalactic medium of two large spiral galaxies

Sun Dec 06 02:02:59 GMT 2015

Visit	<p>Proposal 14240, TON1015 (02), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p>					
Diagnostics	<p>(TON1015 (02)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.</p>					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	TON1015	RA: 09 10 37.0400 (137.6543333d) Dec: +33 29 24.40 (33.49011d) Equinox: J2000	Redshift: 0.354	V=15.75+/-0.1 FUV=0.60E-14	Reference Frame: ICRS
	<i>Comments: Extended=NO</i>					

Proposal 14240 - TON1015 (02) - Mapping the circumgalactic medium of two large spiral galaxies

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	TON1015-A CQ/IMAGE (COS.ta.753 695)	(2) TON1015	COS/NUV, ACQ/IMAGE, PSA	MIRRORB			29 Secs (29 Secs) [==>]	[1]	
	<i>Comments: NUV acquisition exposure COS ETC result for S/N=40; GALEX M(NUV)=16.55; MIRRORB =>29 sec Count rate 1021/sec</i>									
	2	TON1015-a 1327.1 (COS.sp.753 721)	(2) TON1015	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=1; BUFFER-TIME=27 44			547 Secs (547 Secs) [==>]	[1]
	<i>Comments: Total on-source exposure time 4774 sec; SN=15.5 id=COS.sp.753721</i>									
	3	TON1015-a 1327.2 (COS.sp.753 721)	(2) TON1015	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=2; BUFFER-TIME=27 44			547 Secs (547 Secs) [==>]	[1]
	4	TON1015-a 1327.3 (COS.sp.753 721)	(2) TON1015	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=3; BUFFER-TIME=27 44			546 Secs (546 Secs) [==>]	[1]
	5	TON1015-a 1327.4 (COS.sp.753 721)	(2) TON1015	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=4; BUFFER-TIME=27 44			546 Secs (546 Secs) [==>]	[1]
	6	TON1015-b 1291.1 (COS.sp.753 721)	(2) TON1015	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=27 44			647 Secs (647 Secs) [==>]	[2]
	7	TON1015-b 1291.2 (COS.sp.753 721)	(2) TON1015	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=27 44			647 Secs (647 Secs) [==>]	[2]
8	TON1015-b 1291.3 (COS.sp.753 721)	(2) TON1015	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=27 44			647 Secs (647 Secs) [==>]	[2]	
9	TON1015-b 1291.4 (COS.sp.753 721)	(2) TON1015	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=27 44			646 Secs (646 Secs) [==>]	[2]	



Proposal 14240 - SDSSJ091127 (03) - Mapping the circumgalactic medium of two large spiral galaxies

Sun Dec 06 02:02:59 GMT 2015

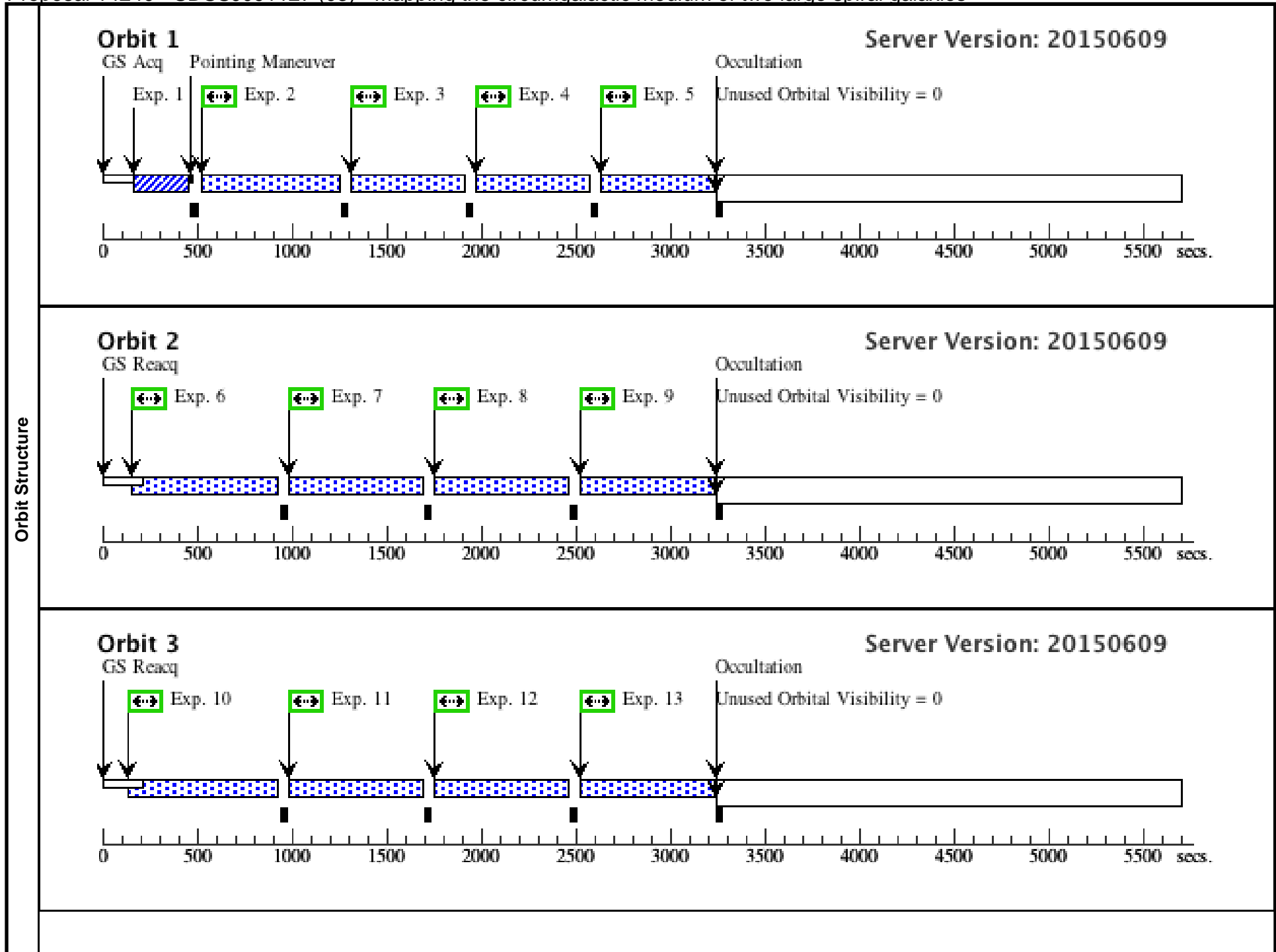
Visit	Proposal 14240, SDSSJ091127 (03), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																							
Diagnostics	(SDSSJ091127 (03)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS (SDSSJ091127 (03)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (SDSSJ091127 (03)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS																							
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>(3)</td> <td>SDSSJ091127.30+32533 7.0</td> <td>RA: 09 11 27.2800 (137.8636667d) Dec: +32 53 37.00 (32.89361d) Equinox: J2000</td> <td>Redshift: 0.290</td> <td>V=18.76+/-0.1 FUV=0.09E-14</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"><i>Comments: Extended=NO</i></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(3)	SDSSJ091127.30+32533 7.0	RA: 09 11 27.2800 (137.8636667d) Dec: +32 53 37.00 (32.89361d) Equinox: J2000	Redshift: 0.290	V=18.76+/-0.1 FUV=0.09E-14	Reference Frame: ICRS	<i>Comments: Extended=NO</i>										
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																			
(3)	SDSSJ091127.30+32533 7.0	RA: 09 11 27.2800 (137.8636667d) Dec: +32 53 37.00 (32.89361d) Equinox: J2000	Redshift: 0.290	V=18.76+/-0.1 FUV=0.09E-14	Reference Frame: ICRS																			
<i>Comments: Extended=NO</i>																								

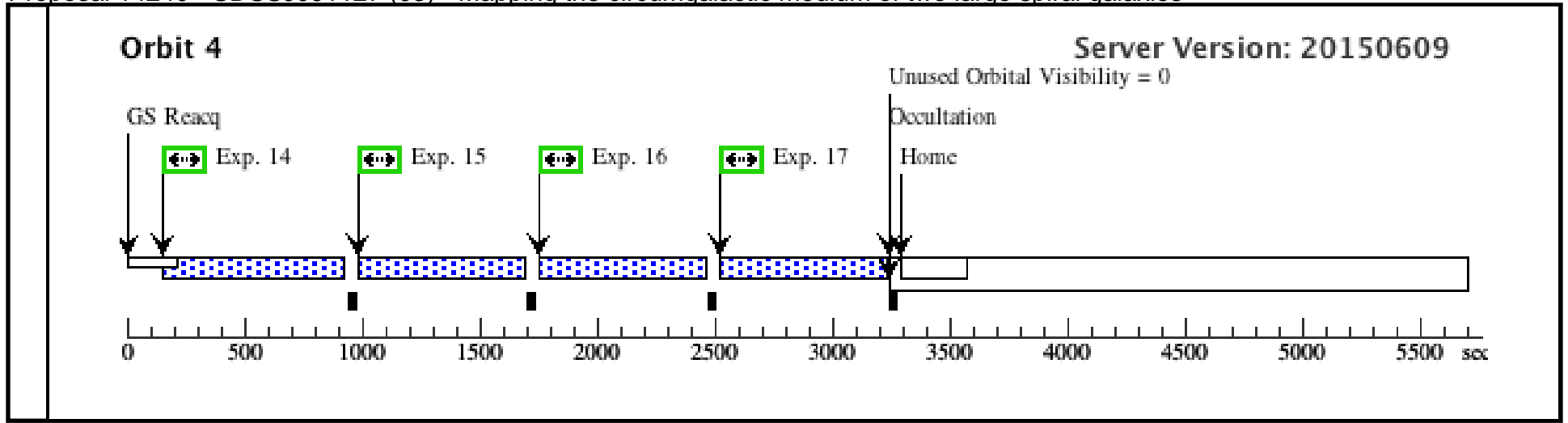
Proposal 14240 - SDSSJ091127 (03) - Mapping the circumgalactic medium of two large spiral galaxies

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	SDSSJ0911 27-ACQ/IM AGE (COS.ta.719 603)	(3) SDSSJ091127.30 +325337.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA			30 Secs (30 Secs) [==>]	[1]	
	<i>Comments: NUV acquisition exposure COS ETC result for S/N=40; GALEX M(NUV)=19.01 => 15 sec Count rate 1046/sec</i>									
	2	SDSSJ0911 27-a1327.1 (COS.sp.753 722)	(3) SDSSJ091127.30 +325337.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=1; BUFFER-TIME=39 34			546 Secs (546 Secs) [==>]	[1]
	<i>Comments: Total on-source exposure time 10026 sec; SN=8.4</i>									
	3	SDSSJ0911 27-a1327.2 (COS.sp.753 722)	(3) SDSSJ091127.30 +325337.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=2; BUFFER-TIME=39 34			546 Secs (546 Secs) [==>]	[1]
	4	SDSSJ0911 27-a1327.3 (COS.sp.753 722)	(3) SDSSJ091127.30 +325337.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=3; BUFFER-TIME=39 34			546 Secs (546 Secs) [==>]	[1]
	5	SDSSJ0911 27-a1327.4 (COS.sp.753 722)	(3) SDSSJ091127.30 +325337.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=4; BUFFER-TIME=39 34			546 Secs (546 Secs) [==>]	[1]
	6	SDSSJ0911 27-b1327.1 (COS.sp.753 722)	(3) SDSSJ091127.30 +325337.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=1; BUFFER-TIME=39 34			654 Secs (654 Secs) [==>]	[2]
	7	SDSSJ0911 27-b1327.2 (COS.sp.753 722)	(3) SDSSJ091127.30 +325337.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=2; BUFFER-TIME=39 34			654 Secs (654 Secs) [==>]	[2]
	8	SDSSJ0911 27-b1327.3 (COS.sp.753 722)	(3) SDSSJ091127.30 +325337.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=3; BUFFER-TIME=39 34			653 Secs (653 Secs) [==>]	[2]
	9	SDSSJ0911 27-b1327.4 (COS.sp.753 722)	(3) SDSSJ091127.30 +325337.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=4; BUFFER-TIME=39 34			653 Secs (653 Secs) [==>]	[2]
	10	SDSSJ0911 27-c1291.1 (COS.sp.753 722)	(3) SDSSJ091127.30 +325337.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=39 34			654 Secs (654 Secs) [==>]	[3]
	11	SDSSJ0911 27-c1291.2 (COS.sp.753 722)	(3) SDSSJ091127.30 +325337.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=39 34			654 Secs (654 Secs) [==>]	[3]
12	SDSSJ0911 27-c1291.3 (COS.sp.753 722)	(3) SDSSJ091127.30 +325337.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=39 34			653 Secs (653 Secs) [==>]	[3]	
13	SDSSJ0911 27-c1291.4 (COS.sp.753 722)	(3) SDSSJ091127.30 +325337.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=39 34			653 Secs (653 Secs) [==>]	[3]	

Proposal 14240 - SDSSJ091127 (03) - Mapping the circumgalactic medium of two large spiral galaxies

14	SDSSJ0911 27-d1291.1 (COS.sp.753 722)	(3) SDSSJ091127.30 +325337.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=39 34	654 Secs (654 Secs)	
						[==>]	[4]
15	SDSSJ0911 27-d1291.2 (COS.sp.753 722)	(3) SDSSJ091127.30 +325337.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=39 34	654 Secs (654 Secs)	
						[==>]	[4]
16	SDSSJ0911 27-d1291.3 (COS.sp.753 722)	(3) SDSSJ091127.30 +325337.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=39 34	653 Secs (653 Secs)	
						[==>]	[4]
17	SDSSJ0911 27-d1291.4 (COS.sp.753 722)	(3) SDSSJ091127.30 +325337.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=39 34	653 Secs (653 Secs)	
						[==>]	[4]





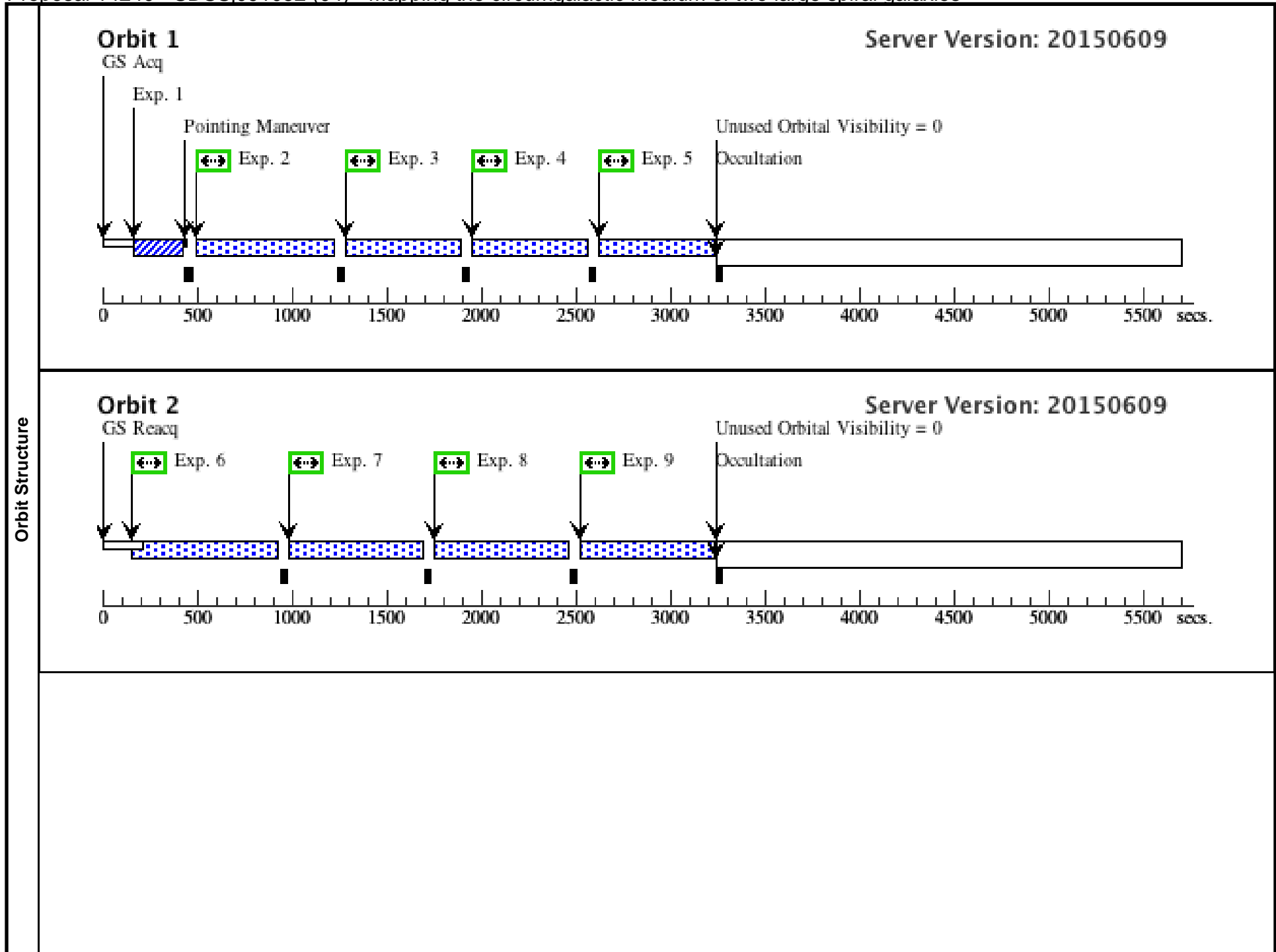
Proposal 14240 - SDSSj091052 (04) - Mapping the circumgalactic medium of two large spiral galaxies

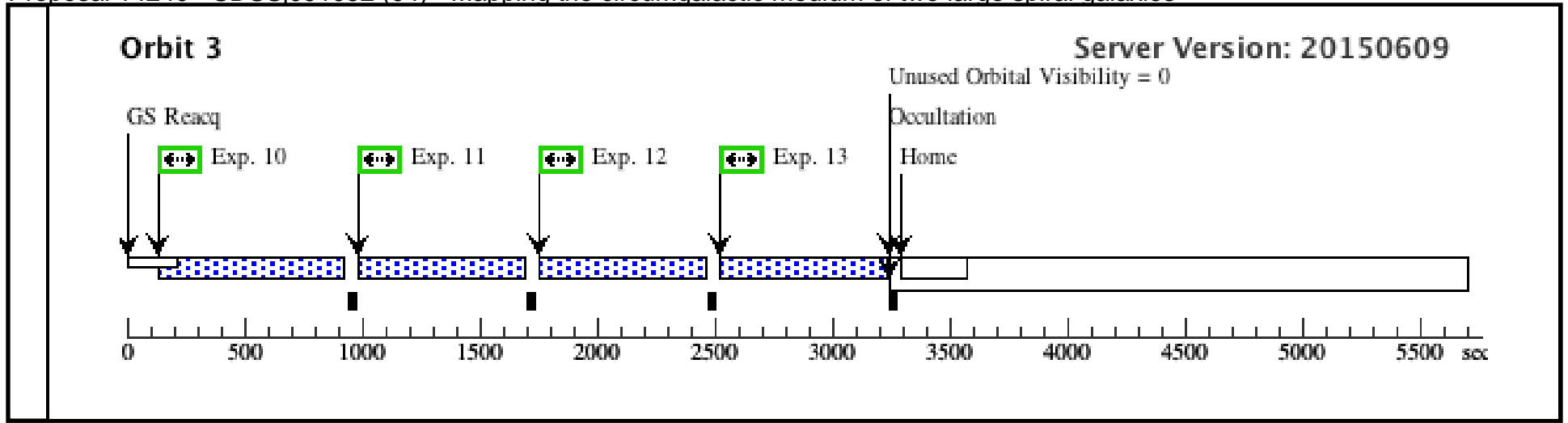
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Visit	<p>Proposal 14240, SDSSj091052 (04), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p>					
Diagnostics	<p>(SDSSj091052 (04)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.</p> <p>(SDSSj091052 (04)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS</p>					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	SDSSJ091052.80+33300 8.0	RA: 09 10 52.8500 (137.7202083d) Dec: +33 30 8.00 (33.50222d) Equinox: J2000	Redshift: 0.116	V=17.08+/-0.1 FUV=0.15E-14	Reference Frame: ICRS
	<i>Comments: Extended=NO</i>					

Proposal 14240 - SDSSj091052 (04) - Mapping the circumgalactic medium of two large spiral galaxies

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	SDSSj09105 2-ACQ/IMA GE (COS.ta.753 697)	(4) SDSSJ091052.80 +333008.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA			16 Secs (16 Secs) [==>]	[1]	
	<i>Comments: NUV acquisition exposure COS ETC result for S/N=40; GALEX M(NUV)=18.36 => 8 sec Count rate 1133/sec</i>									
	2	SDSSj09105 2-a1327.1 (COS.sp753 723)	(4) SDSSJ091052.80 +333008.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=1; BUFFER-TIME=37 43			553 Secs (553 Secs) [==>]	[1]
	<i>Comments: Total on-source exposure time 7440 sec; SN=9.5</i>									
	3	SDSSj09105 2-a1327.2 (COS.sp753 723)	(4) SDSSJ091052.80 +333008.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=2; BUFFER-TIME=37 43			553 Secs (553 Secs) [==>]	[1]
	4	SDSSj09105 2-a1327.3 (COS.sp753 723)	(4) SDSSJ091052.80 +333008.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=3; BUFFER-TIME=37 43			553 Secs (553 Secs) [==>]	[1]
	5	SDSSj09105 2-a1327.4 (COS.sp753 723)	(4) SDSSJ091052.80 +333008.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=4; BUFFER-TIME=37 43			553 Secs (553 Secs) [==>]	[1]
	6	SDSSj09105 2-b1327.1 (COS.sp753 723)	(4) SDSSJ091052.80 +333008.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=1; BUFFER-TIME=37 43			654 Secs (654 Secs) [==>]	[2]
	7	SDSSj09105 2-b1327.2 (COS.sp753 723)	(4) SDSSJ091052.80 +333008.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=2; BUFFER-TIME=37 43			654 Secs (654 Secs) [==>]	[2]
	8	SDSSj09105 2-b1327.3 (COS.sp753 723)	(4) SDSSJ091052.80 +333008.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=3; BUFFER-TIME=37 43			653 Secs (653 Secs) [==>]	[2]
	9	SDSSj09105 2-b1327.4 (COS.sp753 723)	(4) SDSSJ091052.80 +333008.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=4; BUFFER-TIME=37 43			653 Secs (653 Secs) [==>]	[2]
	10	SDSSj09105 2-c1291.1 (COS.sp753 723)	(4) SDSSJ091052.80 +333008.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=37 43			654 Secs (654 Secs) [==>]	[3]
	11	SDSSj09105 2-c1291.2 (COS.sp753 723)	(4) SDSSJ091052.80 +333008.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=37 43			654 Secs (654 Secs) [==>]	[3]
12	SDSSj09105 2-c1291.3 (COS.sp753 723)	(4) SDSSJ091052.80 +333008.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=37 43			653 Secs (653 Secs) [==>]	[3]	
13	SDSSj09105 2-c1291.4 (COS.sp753 723)	(4) SDSSJ091052.80 +333008.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=37 43			653 Secs (653 Secs) [==>]	[3]	





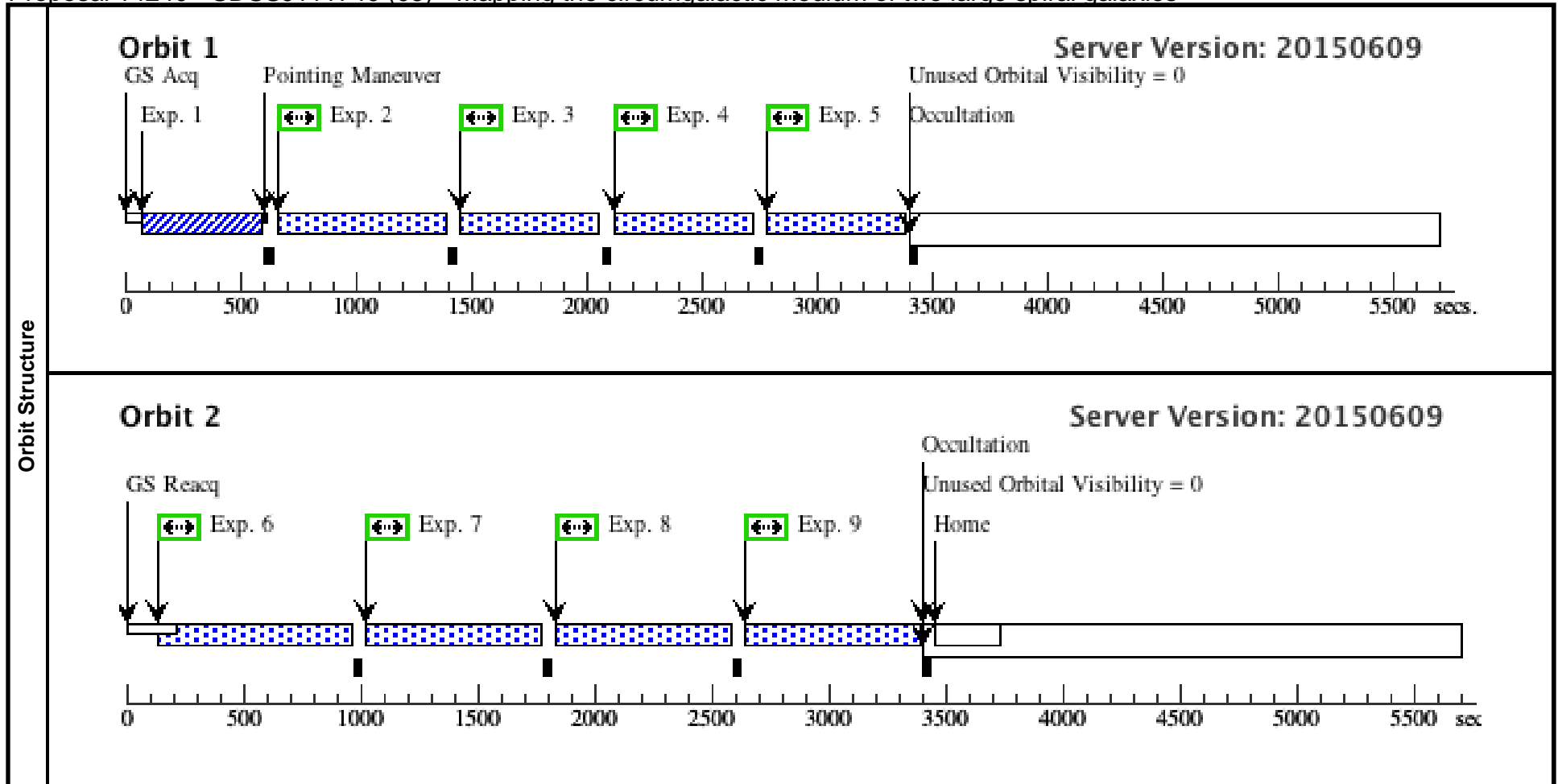
Proposal 14240 - SDSSJ111740 (05) - Mapping the circumgalactic medium of two large spiral galaxies

Sun Dec 06 02:03:00 GMT 2015

Visit	Proposal 14240, SDSSJ111740 (05), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																
Diagnostics	(SDSSJ111740 (05)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.																
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>(5)</td> <td>SDSSJ111740.50+53015 0.0</td> <td>RA: 11 17 40.4800 (169.4186667d) Dec: +53 01 51.30 (53.03092d) Equinox: J2000</td> <td>Redshift: 0.159</td> <td>V=17.55+/-0.1 FUV=0.28E-14</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Extended=NO</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(5)	SDSSJ111740.50+53015 0.0	RA: 11 17 40.4800 (169.4186667d) Dec: +53 01 51.30 (53.03092d) Equinox: J2000	Redshift: 0.159	V=17.55+/-0.1 FUV=0.28E-14	Reference Frame: ICRS				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(5)	SDSSJ111740.50+53015 0.0	RA: 11 17 40.4800 (169.4186667d) Dec: +53 01 51.30 (53.03092d) Equinox: J2000	Redshift: 0.159	V=17.55+/-0.1 FUV=0.28E-14	Reference Frame: ICRS												

Proposal 14240 - SDSSJ111740 (05) - Mapping the circumgalactic medium of two large spiral galaxies

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	SDSSJ1117 40-ACQ/IM AGE (COS.ta.755 941)	(5) SDSSJ111740.50 +530150.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB			100 Secs (100 Secs) [==>]	[1]	
	<i>Comments: NUV acquisition exposure COS ETC result for S/N=40; GALEX M(NUV)=17.83 => 103 sec Count rate 861/sec</i>									
	2	SDSSJ1117 40-a1327.1 (COS.sp.753 724)	(5) SDSSJ111740.50 +530150.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=1; BUFFER-TIME=33 86			551 Secs (551 Secs) [==>]	[1]
	<i>Comments: Total on-source exposure time 5154 sec; SN=11.0</i>									
	3	SDSSJ1117 40-a1327.2 (COS.sp.753 724)	(5) SDSSJ111740.50 +530150.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=2; BUFFER-TIME=33 86			551 Secs (551 Secs) [==>]	[1]
	4	SDSSJ1117 40-a1327.3 (COS.sp.753 724)	(5) SDSSJ111740.50 +530150.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=3; BUFFER-TIME=33 86			550 Secs (550 Secs) [==>]	[1]
	5	SDSSJ1117 40-a1327.4 (COS.sp.753 724)	(5) SDSSJ111740.50 +530150.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=4; BUFFER-TIME=33 86			550 Secs (550 Secs) [==>]	[1]
	6	SDSSJ1117 40-b1291.1 (COS.sp.753 724)	(5) SDSSJ111740.50 +530150.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=33 86			693 Secs (693 Secs) [==>]	[2]
	7	SDSSJ1117 40-b1291.2 (COS.sp.753 724)	(5) SDSSJ111740.50 +530150.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=33 86			693 Secs (693 Secs) [==>]	[2]
8	SDSSJ1117 40-b1291.3 (COS.sp.753 724)	(5) SDSSJ111740.50 +530150.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=33 86			693 Secs (693 Secs) [==>]	[2]	
9	SDSSJ1117 40-b1291.4 (COS.sp.753 724)	(5) SDSSJ111740.50 +530150.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=33 86			693 Secs (693 Secs) [==>]	[2]	



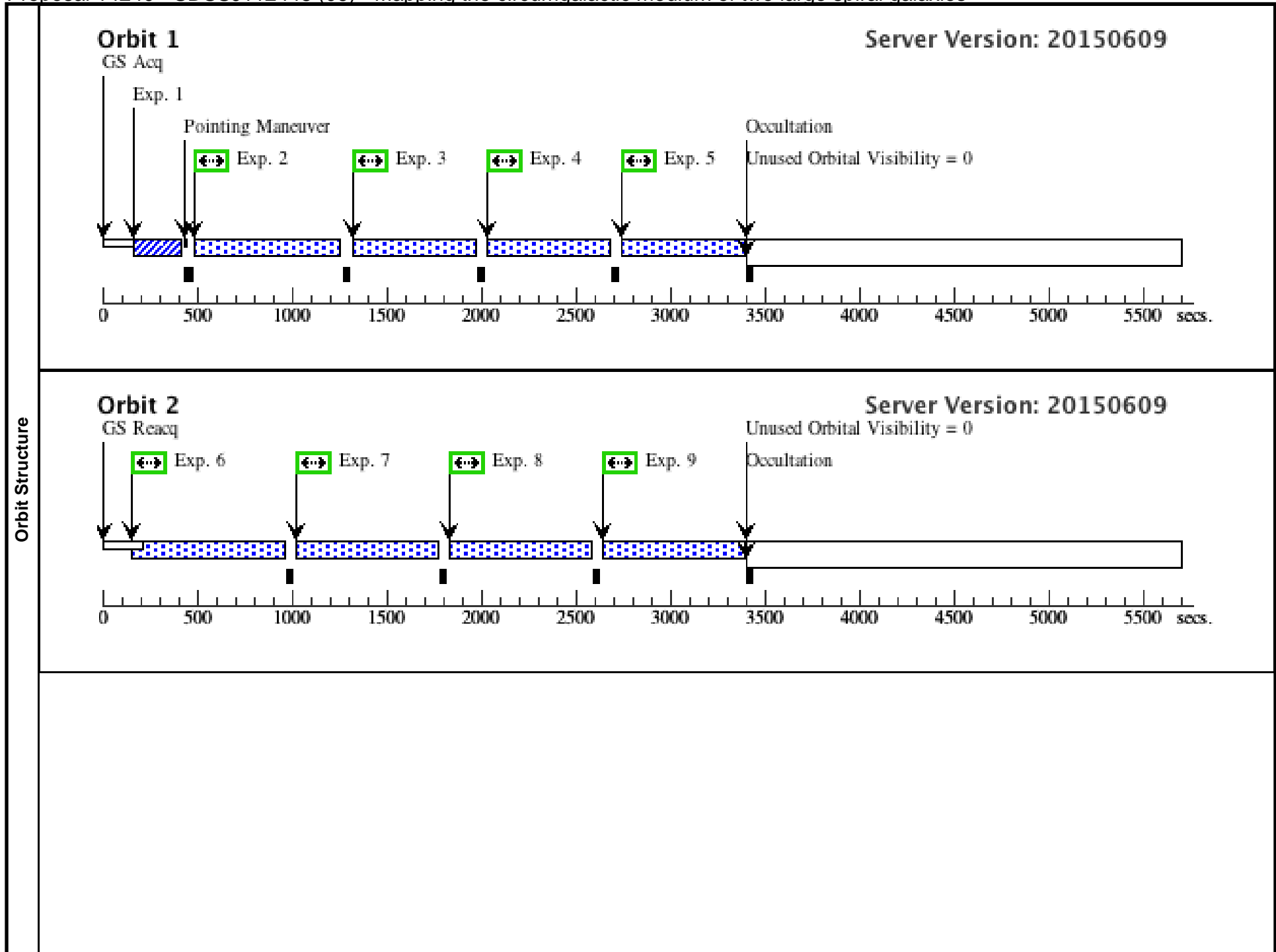
Proposal 14240 - SDSSJ112448 (06) - Mapping the circumgalactic medium of two large spiral galaxies

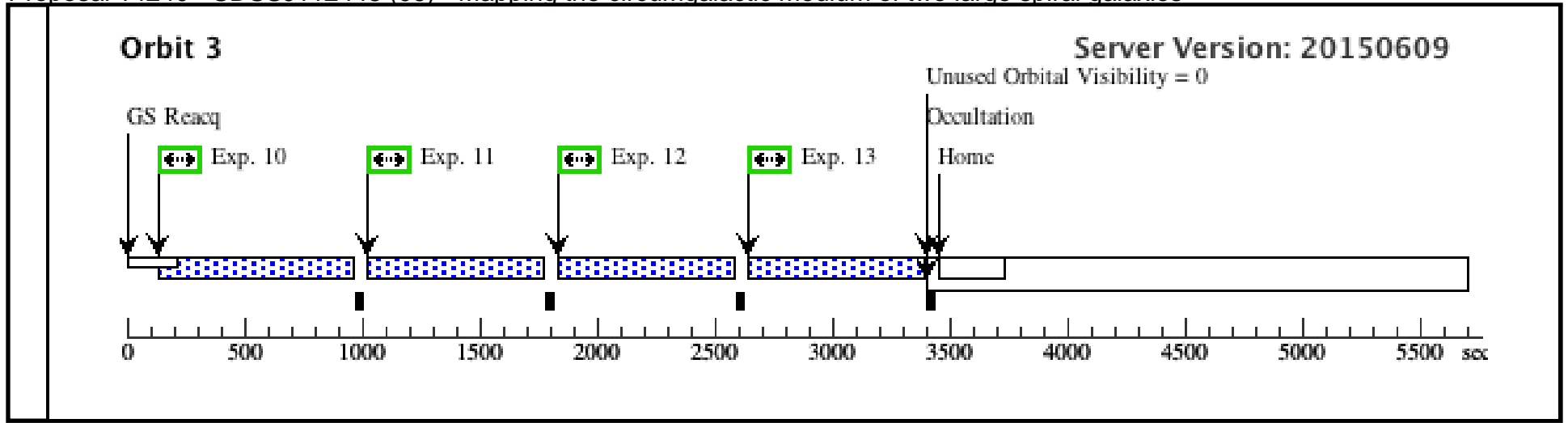
Sun Dec 06 02:03:00 GMT 2015

Visit	Proposal 14240, SDSSJ112448 (06), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)												
Diagnostics	(SDSSJ112448 (06)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS (SDSSJ112448 (06)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.												
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>(6)</td> <td>SDSSJ112448.30+53181 8.0</td> <td>RA: 11 24 48.3100 (171.2012917d) Dec: +53 18 18.90 (53.30525d) Equinox: J2000</td> <td>Redshift: 0.532</td> <td>V=18.10+/-0.1 FUV=0.16E-14</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Extended=NO</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(6)	SDSSJ112448.30+53181 8.0	RA: 11 24 48.3100 (171.2012917d) Dec: +53 18 18.90 (53.30525d) Equinox: J2000	Redshift: 0.532	V=18.10+/-0.1 FUV=0.16E-14	Reference Frame: ICRS
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous								
(6)	SDSSJ112448.30+53181 8.0	RA: 11 24 48.3100 (171.2012917d) Dec: +53 18 18.90 (53.30525d) Equinox: J2000	Redshift: 0.532	V=18.10+/-0.1 FUV=0.16E-14	Reference Frame: ICRS								

Proposal 14240 - SDSSJ112448 (06) - Mapping the circumgalactic medium of two large spiral galaxies

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	SDSSJ1124 48-ACQ/IM AGE (COS.ta.753 699)	(6)SDSSJ112448.30 +531818.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA			14 Secs (14 Secs) [==>]	[1]	
	<i>Comments: NUV acquisition exposure COS ETC result for S/N=40; GALEX M(NUV)=18.13 => 7sec Count rate 1179/sec</i>									
	2	SDSSJ1124 48-a1327.1 (COS.sp.753 725)	(6)SDSSJ112448.30 +531818.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=1; BUFFER-TIME=37 13			594 Secs (594 Secs) [==>]	[1]
	<i>Comments: Total on-source exposure time 7922 sec; SN=10.2</i>									
	3	SDSSJ1124 48-a1327.2 (COS.sp.753 725)	(6)SDSSJ112448.30 +531818.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=2; BUFFER-TIME=37 13			594 Secs (594 Secs) [==>]	[1]
	4	SDSSJ1124 48-a1327.3 (COS.sp.753 725)	(6)SDSSJ112448.30 +531818.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=3; BUFFER-TIME=37 13			593 Secs (593 Secs) [==>]	[1]
	5	SDSSJ1124 48-a1327.4 (COS.sp.753 725)	(6)SDSSJ112448.30 +531818.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=4; BUFFER-TIME=37 13			593 Secs (593 Secs) [==>]	[1]
	6	SDSSJ1124 48-b1327.1 (COS.sp.753 725)	(6)SDSSJ112448.30 +531818.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=1; BUFFER-TIME=37 13			693 Secs (693 Secs) [==>]	[2]
	7	SDSSJ1124 48-b1327.2 (COS.sp.753 725)	(6)SDSSJ112448.30 +531818.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=2; BUFFER-TIME=37 13			693 Secs (693 Secs) [==>]	[2]
	8	SDSSJ1124 48-b1327.3 (COS.sp.753 725)	(6)SDSSJ112448.30 +531818.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=3; BUFFER-TIME=37 13			693 Secs (693 Secs) [==>]	[2]
	9	SDSSJ1124 48-b1327.4 (COS.sp.753 725)	(6)SDSSJ112448.30 +531818.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=4; BUFFER-TIME=37 13			693 Secs (693 Secs) [==>]	[2]
	10	SDSSJ1124 48-c1291.1 (COS.sp.753 725)	(6)SDSSJ112448.30 +531818.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=37 13			693 Secs (693 Secs) [==>]	[3]
	11	SDSSJ1124 48-c1291.2 (COS.sp.753 725)	(6)SDSSJ112448.30 +531818.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=37 13			693 Secs (693 Secs) [==>]	[3]
12	SDSSJ1124 48-c1291.3 (COS.sp.753 725)	(6)SDSSJ112448.30 +531818.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=37 13			693 Secs (693 Secs) [==>]	[3]	
13	SDSSJ1124 48-c1291.4 (COS.sp.753 725)	(6)SDSSJ112448.30 +531818.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=37 13			693 Secs (693 Secs) [==>]	[3]	





Proposal 14240 - RBS971 (07) - Mapping the circumgalactic medium of two large spiral galaxies

Sun Dec 06 02:03:00 GMT 2015

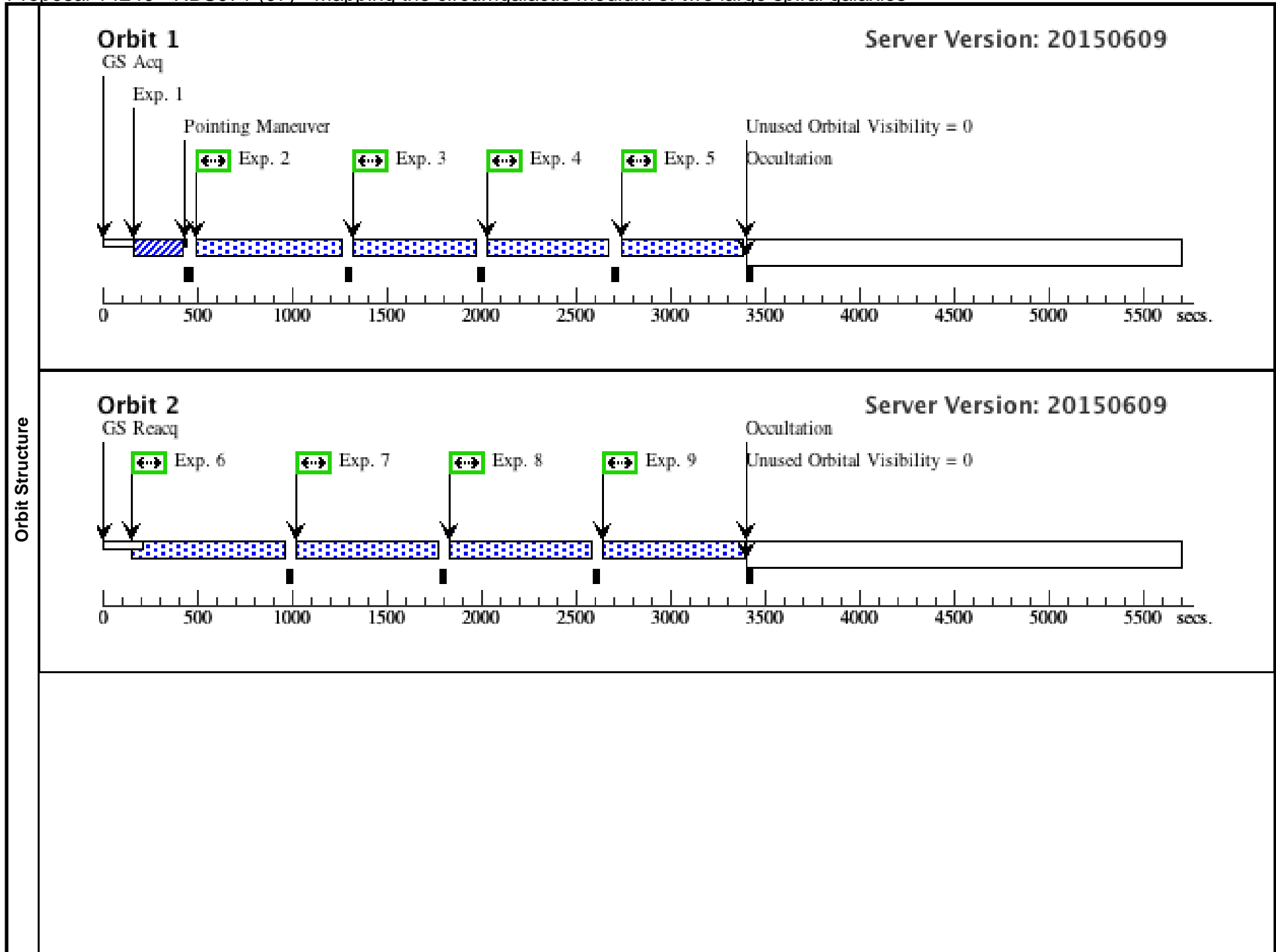
Visit	Proposal 14240, RBS971 (07), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																						
	Diagnosics (RBS971 (07)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS (RBS971 (07)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (RBS971 (07)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS																						
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>(7)</td> <td>RBS971</td> <td>RA: 11 21 8.5900 (170.2857917d) Dec: +53 51 21.10 (53.85586d) Equinox: J2000</td> <td>Redshift: 0.104</td> <td>V=16.39+/-0.1 FUV=0.09E-14</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"><i>Comments: Extended=NO</i></td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(7)	RBS971	RA: 11 21 8.5900 (170.2857917d) Dec: +53 51 21.10 (53.85586d) Equinox: J2000	Redshift: 0.104	V=16.39+/-0.1 FUV=0.09E-14	Reference Frame: ICRS	<i>Comments: Extended=NO</i>					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																	
(7)	RBS971	RA: 11 21 8.5900 (170.2857917d) Dec: +53 51 21.10 (53.85586d) Equinox: J2000	Redshift: 0.104	V=16.39+/-0.1 FUV=0.09E-14	Reference Frame: ICRS																		
<i>Comments: Extended=NO</i>																							

Proposal 14240 - RBS971 (07) - Mapping the circumgalactic medium of two large spiral galaxies

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	RBS971-AC (7) RBS971 Q/IMAGE (COS.ta.753 700)	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				16 Secs (16 Secs) [==>]	[1]
	<i>Comments: NUV acquisition exposure COS ETC result for S/N=40; GALEX M(NUV)=18.25 => 8 sec Count rate 1154/sec</i>								
	2	RBS971-a13 (7) RBS971 27.1 (COS.sp.753 726)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=1; BUFFER-TIME=39 34			593 Secs (593 Secs) [==>]	[1]
	<i>Comments: Total on-source exposure time 10686 sec; SN=8.7</i>								
	3	RBS971-a13 (7) RBS971 27.2 (COS.sp.753 726)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=2; BUFFER-TIME=39 34			593 Secs (593 Secs) [==>]	[1]
	4	RBS971-a13 (7) RBS971 27.3 (COS.sp.753 726)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=3; BUFFER-TIME=39 34			592 Secs (592 Secs) [==>]	[1]
	5	RBS971-a13 (7) RBS971 27.4 (COS.sp.753 726)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=4; BUFFER-TIME=39 34			592 Secs (592 Secs) [==>]	[1]
	6	RBS971-b1 (7) RBS971 327.1 (COS.sp.753 726)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=1; BUFFER-TIME=39 34			693 Secs (693 Secs) [==>]	[2]
	7	RBS971-b1 (7) RBS971 327.2 (COS.sp.753 726)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=2; BUFFER-TIME=39 34			693 Secs (693 Secs) [==>]	[2]
	8	RBS971-b1 (7) RBS971 327.3 (COS.sp.753 726)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=3; BUFFER-TIME=39 34			693 Secs (693 Secs) [==>]	[2]
	9	RBS971-b1 (7) RBS971 327.4 (COS.sp.753 726)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=4; BUFFER-TIME=39 34			693 Secs (693 Secs) [==>]	[2]
	10	RBS971-c12 (7) RBS971 91.1 (COS.sp.753 726)	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=39 34			693 Secs (693 Secs) [==>]	[3]
	11	RBS971-c12 (7) RBS971 91.2 (COS.sp.753 726)	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=39 34			693 Secs (693 Secs) [==>]	[3]
12	RBS971-c12 (7) RBS971 91.3 (COS.sp.753 726)	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=39 34			693 Secs (693 Secs) [==>]	[3]	
13	RBS971-c12 (7) RBS971 91.4 (COS.sp.753 726)	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=39 34			693 Secs (693 Secs) [==>]	[3]	

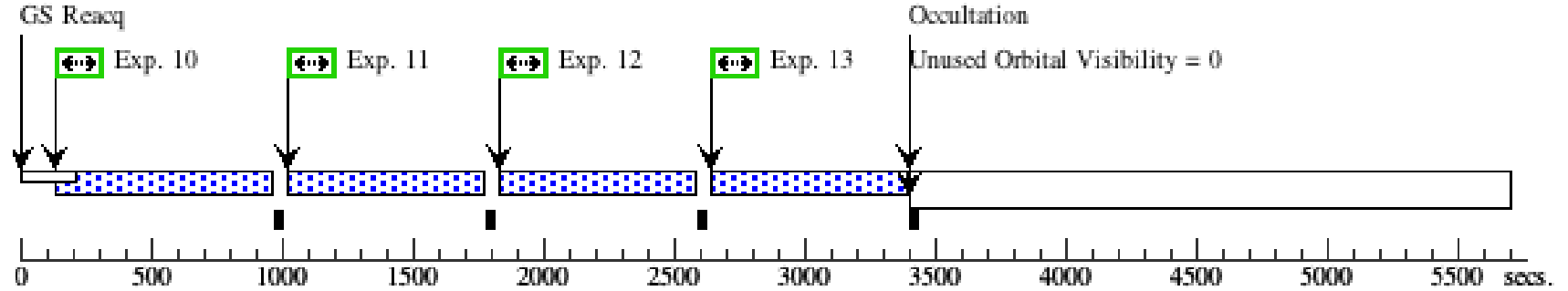
Proposal 14240 - RBS971 (07) - Mapping the circumgalactic medium of two large spiral galaxies

14	RBS971-d1 291.1 (COS.sp.753 726)	(7) RBS971	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=39 34	693 Secs (693 Secs)	
						[==>]	[4]
15	RBS971-d1 291.2 (COS.sp.753 726)	(7) RBS971	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=39 34	693 Secs (693 Secs)	
						[==>]	[4]
16	RBS971-d1 291.3 (COS.sp.753 726)	(7) RBS971	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=39 34	693 Secs (693 Secs)	
						[==>]	[4]
17	RBS971-d1 291.4 (COS.sp.753 726)	(7) RBS971	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=39 34	693 Secs (693 Secs)	
						[==>]	[4]



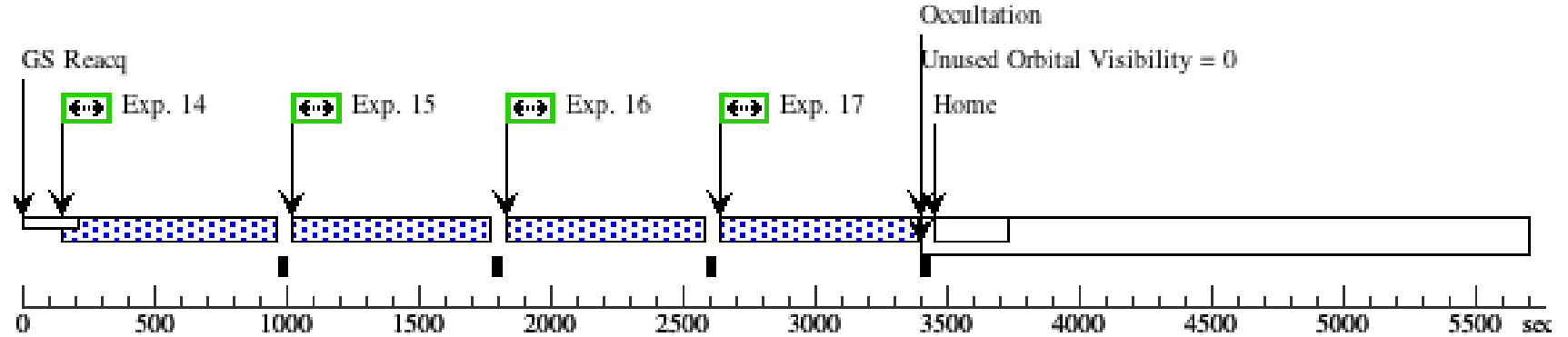
Orbit 3

Server Version: 20150609



Orbit 4

Server Version: 20150609



Proposal 14240 - SDSSJ111443 (08) - Mapping the circumgalactic medium of two large spiral galaxies

Sun Dec 06 02:03:00 GMT 2015

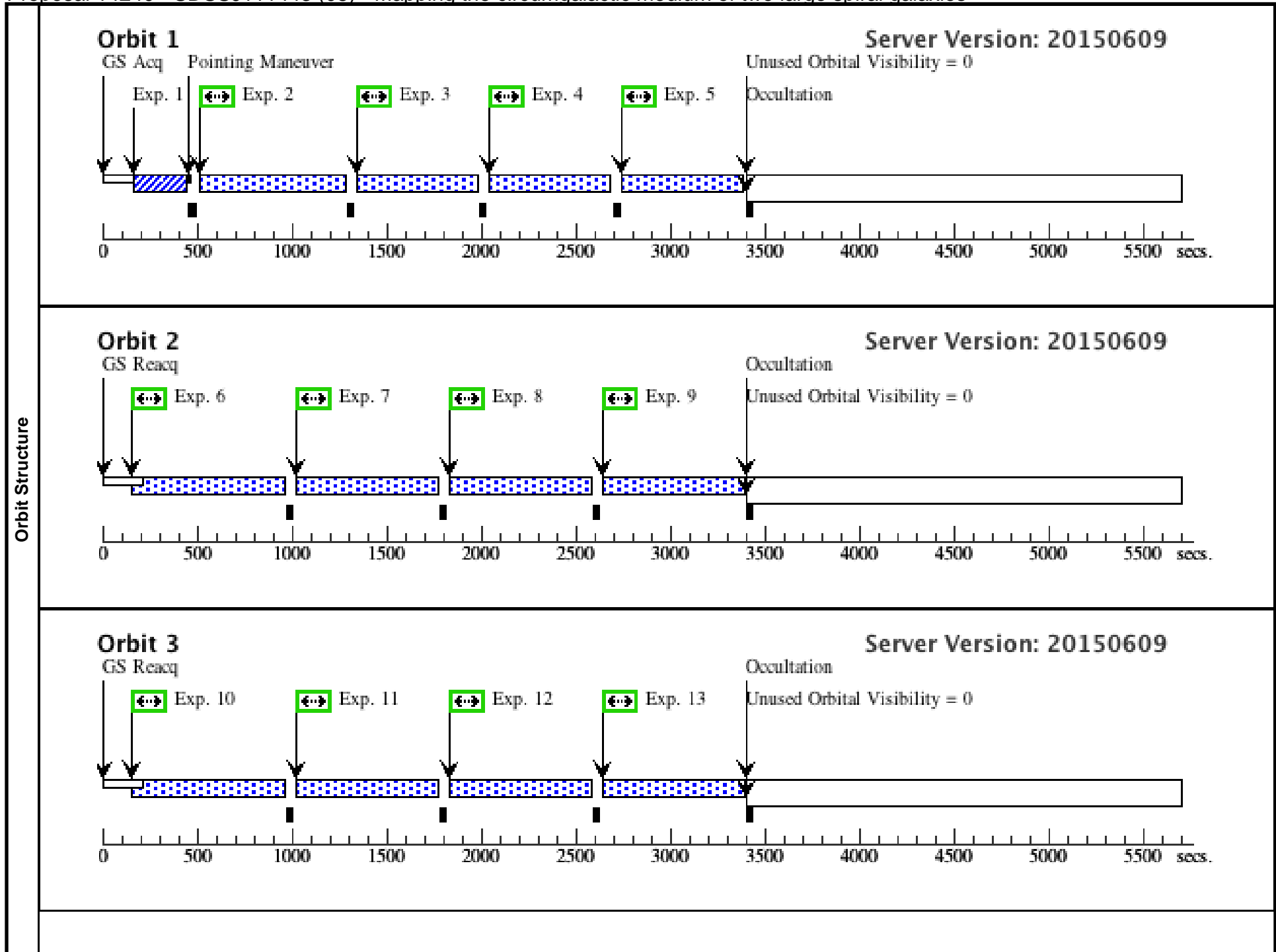
Visit	Proposal 14240, SDSSJ111443 (08), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																							
	Diagnosics (SDSSJ111443 (08)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS (SDSSJ111443 (08)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (SDSSJ111443 (08)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS (SDSSJ111443 (08)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS																							
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>(8)</td> <td>SDSSJ111443.70+52583 4.0</td> <td>RA: 11 14 43.6300 (168.6817917d) Dec: +52 58 34.30 (52.97619d) Equinox: J2000</td> <td>Redshift: 0.079</td> <td>V=16.62+/-0.1 FUV=0.08E-14</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"><i>Comments: Extended=NO</i></td> </tr> </tbody> </table>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(8)	SDSSJ111443.70+52583 4.0	RA: 11 14 43.6300 (168.6817917d) Dec: +52 58 34.30 (52.97619d) Equinox: J2000	Redshift: 0.079	V=16.62+/-0.1 FUV=0.08E-14	Reference Frame: ICRS	<i>Comments: Extended=NO</i>					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																		
(8)	SDSSJ111443.70+52583 4.0	RA: 11 14 43.6300 (168.6817917d) Dec: +52 58 34.30 (52.97619d) Equinox: J2000	Redshift: 0.079	V=16.62+/-0.1 FUV=0.08E-14	Reference Frame: ICRS																			
<i>Comments: Extended=NO</i>																								

Proposal 14240 - SDSSJ111443 (08) - Mapping the circumgalactic medium of two large spiral galaxies

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	SDSSJ1114 43-ACQ/IM AGE (COS.ta.753 701)	(8) SDSSJ111443.70 +525834.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA			26 Secs (26 Secs) [==>]	[1]	
	<i>Comments: NUV acquisition exposure COS ETC result for S/N=40; GALEX M(NUV)=18.86 => 13 sec Count rate 1062/sec</i>									
	2	SDSSJ1114 43-a1327.1 (COS.sp.753 727)	(8) SDSSJ111443.70 +525834.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=1; BUFFER-TIME=39 68			588 Secs (588 Secs) [==>]	[1]
	<i>Comments: Total on-source exposure time 13438 sec; SN=9.1</i>									
	3	SDSSJ1114 43-a1327.2 (COS.sp.753 727)	(8) SDSSJ111443.70 +525834.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=2; BUFFER-TIME=39 68			588 Secs (588 Secs) [==>]	[1]
	4	SDSSJ1114 43-a1327.3 (COS.sp.753 727)	(8) SDSSJ111443.70 +525834.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=3; BUFFER-TIME=39 68			587 Secs (587 Secs) [==>]	[1]
	5	SDSSJ1114 43-a1327.4 (COS.sp.753 727)	(8) SDSSJ111443.70 +525834.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=4; BUFFER-TIME=39 68			587 Secs (587 Secs) [==>]	[1]
	6	SDSSJ1114 43-b1327.1 (COS.sp.753 727)	(8) SDSSJ111443.70 +525834.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=1; BUFFER-TIME=39 68			693 Secs (693 Secs) [==>]	[2]
	7	SDSSJ1114 43-b1327.2 (COS.sp.753 727)	(8) SDSSJ111443.70 +525834.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=2; BUFFER-TIME=39 68			693 Secs (693 Secs) [==>]	[2]
	8	SDSSJ1114 43-b1327.3 (COS.sp.753 727)	(8) SDSSJ111443.70 +525834.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=3; BUFFER-TIME=39 68			693 Secs (693 Secs) [==>]	[2]
	9	SDSSJ1114 43-b1327.4 (COS.sp.753 727)	(8) SDSSJ111443.70 +525834.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=4; BUFFER-TIME=39 68			693 Secs (693 Secs) [==>]	[2]
	10	SDSSJ1114 43-c1327.1 (COS.sp.753 727)	(8) SDSSJ111443.70 +525834.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=1; BUFFER-TIME=39 68			693 Secs (693 Secs) [==>]	[3]
	11	SDSSJ1114 43-c1327.2 (COS.sp.753 727)	(8) SDSSJ111443.70 +525834.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=2; BUFFER-TIME=39 68			693 Secs (693 Secs) [==>]	[3]
12	SDSSJ1114 43-c1327.3 (COS.sp.753 727)	(8) SDSSJ111443.70 +525834.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=3; BUFFER-TIME=39 68			693 Secs (693 Secs) [==>]	[3]	
13	SDSSJ1114 43-c1327.4 (COS.sp.753 727)	(8) SDSSJ111443.70 +525834.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=4; BUFFER-TIME=39 68			693 Secs (693 Secs) [==>]	[3]	

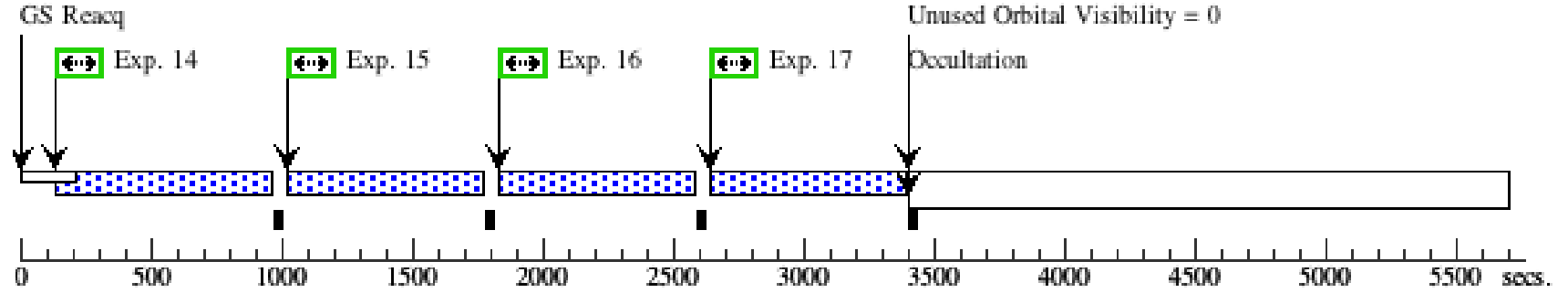
Proposal 14240 - SDSSJ111443 (08) - Mapping the circumgalactic medium of two large spiral galaxies

14	SDSSJ1114 43-d1291.1 (COS.sp.753 727)	(8) SDSSJ111443.70 +525834.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=39 68	693 Secs (693 Secs)	
						[==>]	[4]
15	SDSSJ1114 43-d1291.2 (COS.sp.753 727)	(8) SDSSJ111443.70 +525834.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=39 68	693 Secs (693 Secs)	
						[==>]	[4]
16	SDSSJ1114 43-d1291.3 (COS.sp.753 727)	(8) SDSSJ111443.70 +525834.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=39 68	693 Secs (693 Secs)	
						[==>]	[4]
17	SDSSJ1114 43-d1291.4 (COS.sp.753 727)	(8) SDSSJ111443.70 +525834.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=39 68	693 Secs (693 Secs)	
						[==>]	[4]
18	SDSSJ1114 43-e1291.1 (COS.sp.753 727)	(8) SDSSJ111443.70 +525834.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=39 68	693 Secs (693 Secs)	
						[==>]	[5]
19	SDSSJ1114 43-e1291.2 (COS.sp.753 727)	(8) SDSSJ111443.70 +525834.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=39 68	693 Secs (693 Secs)	
						[==>]	[5]
20	SDSSJ1114 43-e1291.3 (COS.sp.753 727)	(8) SDSSJ111443.70 +525834.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=39 68	693 Secs (693 Secs)	
						[==>]	[5]
21	SDSSJ1114 43-e1291.4 (COS.sp.753 727)	(8) SDSSJ111443.70 +525834.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=39 68	693 Secs (693 Secs)	
						[==>]	[5]



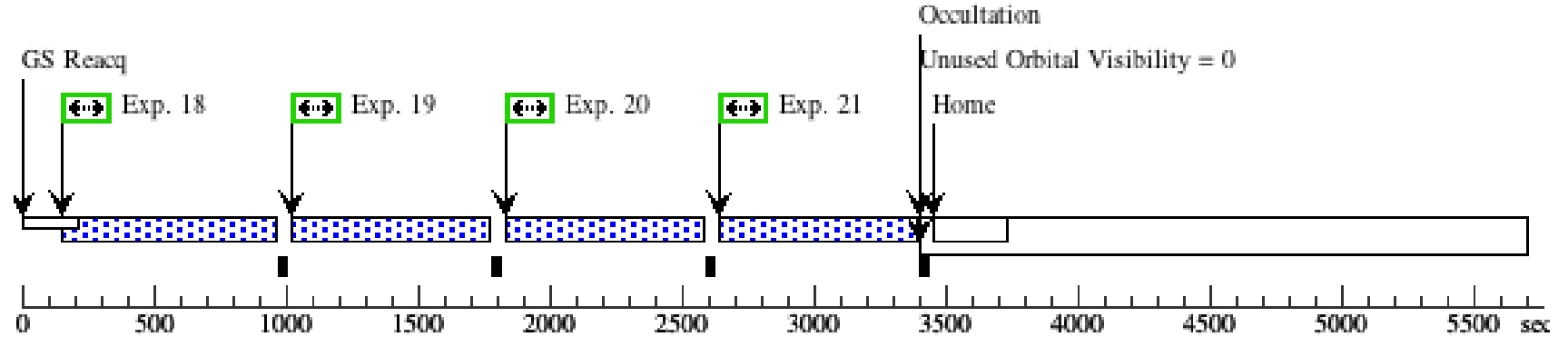
Orbit 4

Server Version: 20150609



Orbit 5

Server Version: 20150609



Proposal 14240 - SBS1116+523 (09) - Mapping the circumgalactic medium of two large spiral galaxies

Sun Dec 06 02:03:00 GMT 2015

Visit	<p>Proposal 14240, SBS1116+523 (09), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p>					
Diagnostics	<p>(SBS1116+523 (09)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.</p>					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	SBS1116+523	RA: 11 19 47.9700 (169.9498750d) Dec: +52 05 52.40 (52.09789d) Equinox: J2000	Redshift: 0.358	V=17.58+/-0.1 FUV=0.26E-14	Reference Frame: ICRS
	<i>Comments: Extended=NO</i>					

Proposal 14240 - SBS1116+523 (09) - Mapping the circumgalactic medium of two large spiral galaxies

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	SBS1116+5 23-ACQ/IM AGE (COS.ta.755 946)	(9) SBS1116+523	COS/NUV, ACQ/IMAGE, PSA	MIRRORB			93 Secs (93 Secs) [==>]	[1]	
	<i>Comments: NUV acquisition exposure COS ETC result for S/N=40; GALEX M(NUV)=17.72 => 93 sec Count rate 964/sec</i>									
	2	SBS1116+5 23-a1327.1 (COS.sp.753 728)	(9) SBS1116+523	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=1; BUFFER-TIME=34 37			554 Secs (554 Secs) [==>]	[1]
	<i>Comments: Total on-source exposure time 4972 sec; SN=10.4</i>									
	3	SBS1116+5 23-a1327.2 (COS.sp.753 728)	(9) SBS1116+523	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=2; BUFFER-TIME=34 37			554 Secs (554 Secs) [==>]	[1]
	4	SBS1116+5 23-a1327.3 (COS.sp.753 728)	(9) SBS1116+523	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=3; BUFFER-TIME=34 37			554 Secs (554 Secs) [==>]	[1]
	5	SBS1116+5 23-a1327.4 (COS.sp.753 728)	(9) SBS1116+523	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=4; BUFFER-TIME=34 37			554 Secs (554 Secs) [==>]	[1]
	6	SBS1116+5 23-b1291.1 (COS.sp.753 728)	(9) SBS1116+523	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=34 37			693 Secs (693 Secs) [==>]	[2]
	7	SBS1116+5 23-b1291.2 (COS.sp.753 728)	(9) SBS1116+523	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=34 37			693 Secs (693 Secs) [==>]	[2]
8	SBS1116+5 23-b1291.3 (COS.sp.753 728)	(9) SBS1116+523	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=34 37			693 Secs (693 Secs) [==>]	[2]	
9	SBS1116+5 23-b1291.4 (COS.sp.753 728)	(9) SBS1116+523	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=34 37			693 Secs (693 Secs) [==>]	[2]	

