



12604 - Ionization in the Magellanic Stream: A Case Study of Galactic Accretion

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) RBS144	COS/FUV	2	17-Jan-2012 21:08:12.0	yes
02	(2) PHL2525	COS/FUV	2	17-Jan-2012 21:08:19.0	yes
03	(3) FAIRALL9	COS/FUV	4	17-Jan-2012 21:08:29.0	yes
04	(4) ESO292-G24	COS/FUV	2	17-Jan-2012 21:08:36.0	yes
05	(5) HE0056-3622	COS/FUV	4	17-Jan-2012 21:08:44.0	yes
06	(6) RBS1892	COS/FUV	2	17-Jan-2012 21:08:50.0	yes
07	(7) MRK304	COS/FUV	2	17-Jan-2012 21:08:55.0	yes
08	(8) NGC7714	COS/FUV	2	17-Jan-2012 21:09:00.0	yes

20 Total Orbits Used

ABSTRACT

Gaseous inflow plays an important role in spiral galaxy evolution, bringing in the fuel that powers new cycles of star formation. But does the gas come in cold, warm, or hot? Are most infalling clouds destroyed by evaporating into the hot corona? To address these poorly-understood processes, we propose a 20-orbit HST/COS study of the Magellanic Stream (MS), the best known example of gaseous accretion, which shows clear signs of a disruptive interaction with the corona. The MS will be detected in a wide range of low-ion and high-ion absorption lines in the COS spectra of 8 background AGN, each sampling a different region of the Stream. Combining with existing observations from FUSE, VLT/UVES, the Green Bank Telescope (H I), and the WHAM telescope (H-alpha), we will fully characterize the MS ionization level, by determining the total column density of low-ion and high-ion gas in each sight line. This will allow us to derive the total (neutral+ionized) MS mass and the accretion rate it represents. We will then determine the fate of each region of the Stream, by deriving the evaporation timescale and comparing it to the infall timescale. The data will also allow for a comprehensive study of chemical enrichment and dust content in the MS, thus constraining its history.

The proposed observations will provide quantitative information on the physical and chemical state of infalling gas clouds, and will test simulations that predict such clouds are evaporated by their interaction with the hot corona. The high sensitivity of COS and the wide range of lines available in the UV make these HST observations the key to completing our multi-wavelength program.

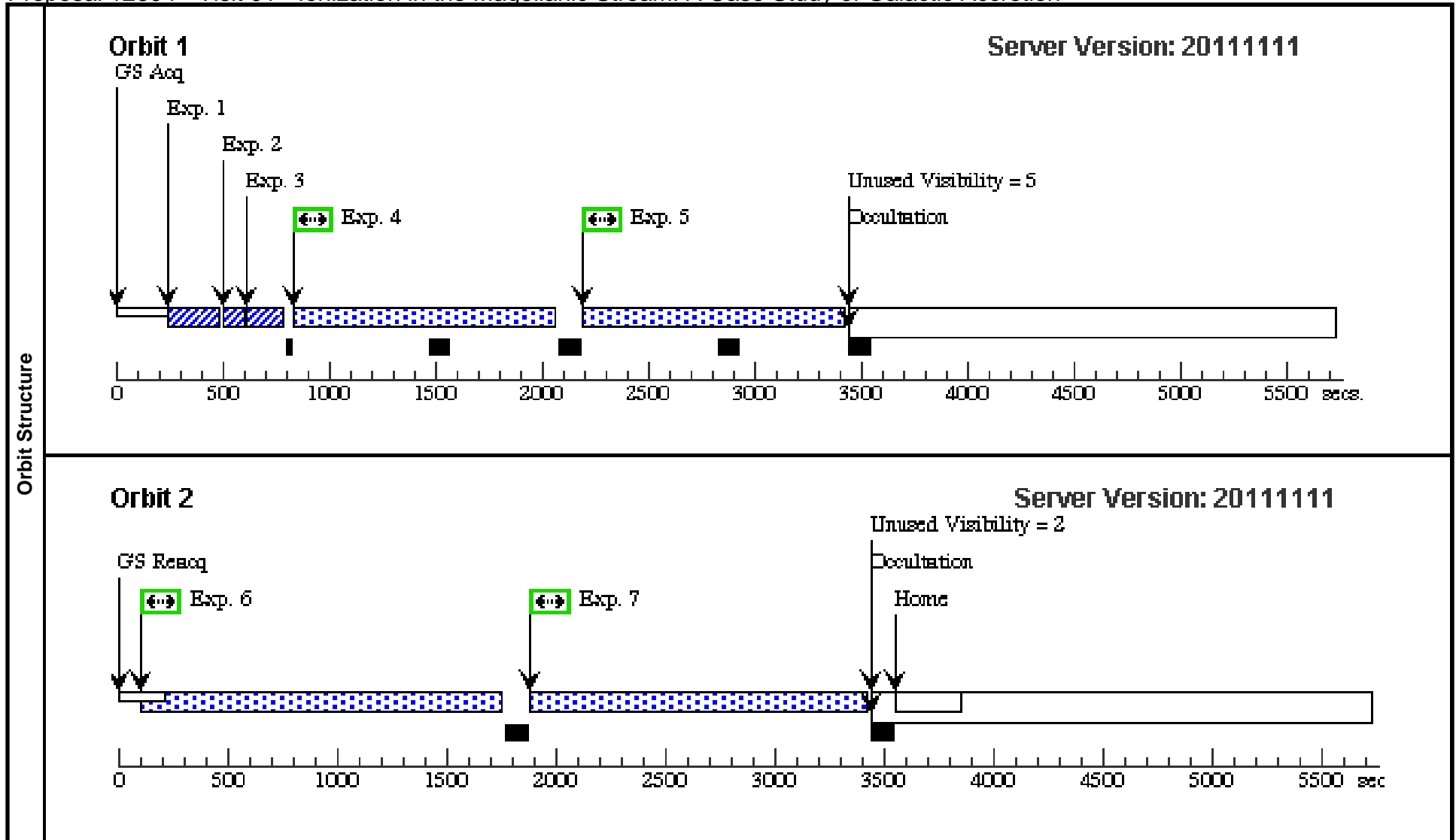
OBSERVING DESCRIPTION

This program involves COS observations of 8 targets with the G130M/1291 and G160M/1589 settings. Each target can be observed in one visit. 6 targets have 2-orbit visits (1 with G130M and 1 with G160M). The remaining 2 targets (the fainter ones) have 4-orbit visits (2 with G130M and 2 with G160M). Target coordinates are expected to be good to 0.1-0.2 arcseconds, but to be sure an ACQ/SEARCH exposure with SCAN-SIZE=2 is taken before the ACQ/PEAKXD and ACQ/PEAKD exposures. All acquisition exposures use exposure times between 2 and 5 seconds. Target S/N ratios are 25 at 1200 A (G130M), and 20 at 1500 A (G160M) after combining all sub-exposures. Buffer times are set equal to the actual exposure time or to half the actual exposure time for the brighter targets, according to the ETC calculations. For several targets, the FUV fluxes were measured by FUSE at 1030 Angstroms, so the flux at 1300 A has been estimated but is not known exactly. For the 6 brighter targets done in two orbits each, 2 FP-POS positions are used per grating. For the 2 fainter targets done in four orbits each, 4 FP-POS positions are used per grating.

Proposal 12604 - Visit 01 - Ionization in the Magellanic Stream: A Case Study of Galactic Accretion

Wed Jan 18 02:09:04 GMT 2012

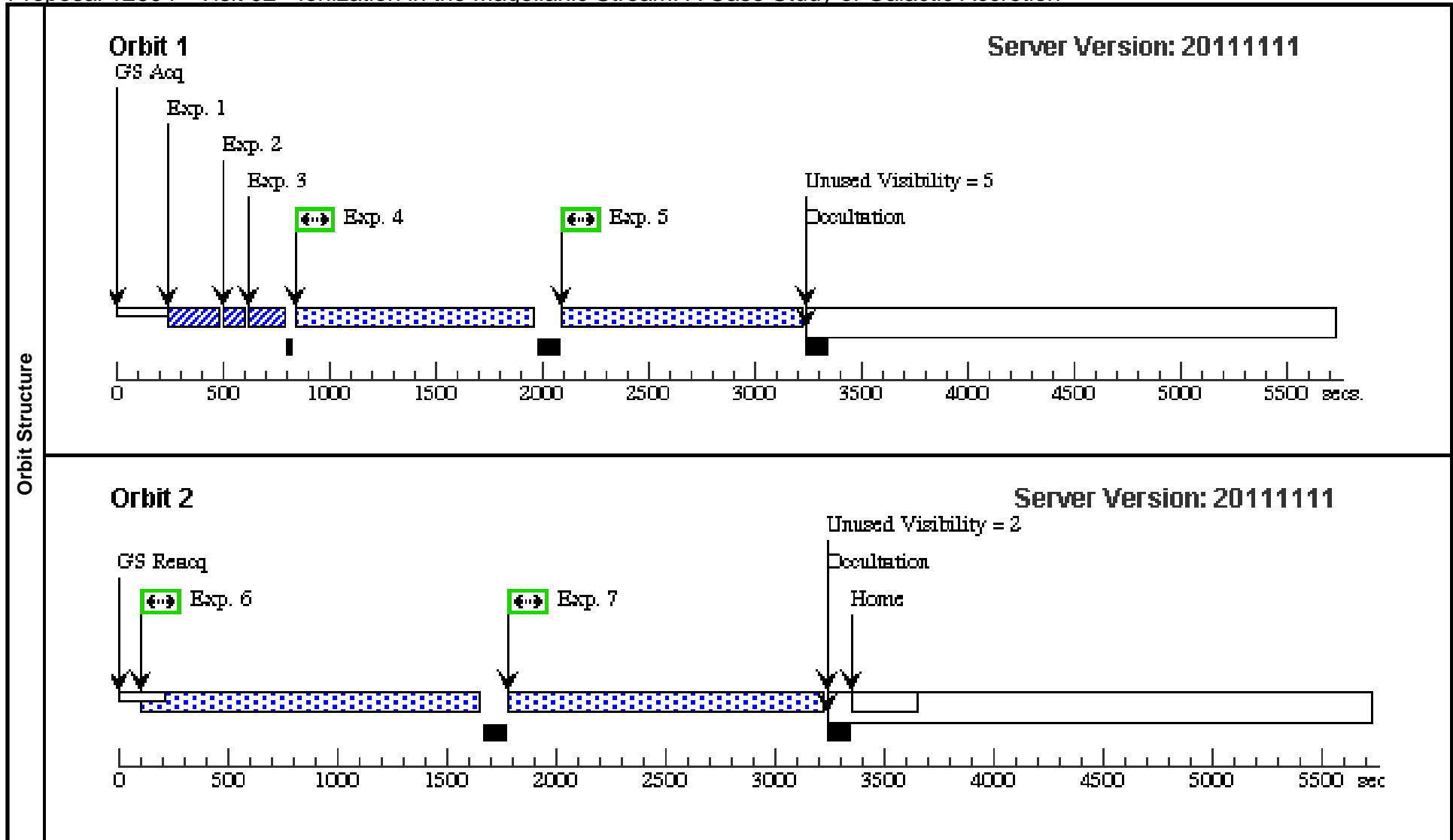
Visit	Proposal 12604, Visit 01, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV Special Requirements: (none)									
	(Visit 01) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	RBS144 Alt Name1: RXJ0100.4-5113	RA: 01 00 27.1310 (15.1130458d) Dec: -51 13 54.49 (-51.23180d) Equinox: J2000		V=15.4 F_1031=3.2e-14 (FUSE)	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	RBS144-AC Q/SEARCH (COS.sp.346 434)	(1) RBS144	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	SCAN-SIZE=2; CENTER=FLUX-W T			3 Secs [==>]	[1]
	2	RBS144-AC Q/PEAKXD (COS.sp.346 434)	(1) RBS144	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				3 Secs [==>]	[1]
	3	RBS144-AC Q/PEAKD (COS.sp.346 434)	(1) RBS144	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	NUM-POS=5.0; STEP-SIZE=0.9			3 Secs [==>]	[1]
	4	RBS144-G1 30M-FPPOS 3 (COS.sp.244 058)	(1) RBS144	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=60 0			1000 Secs [==>1176.0 Secs]	[1]
	5	RBS144-G1 30M-FPPOS 4 (COS.sp.244 058)	(1) RBS144	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=60 0			1000 Secs [==>1176.0 Secs]	[1]
	6	RBS144-G1 60M-FPPOS 3 (COS.sp.244 060)	(1) RBS144	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=14 86			1380 Secs [==>1486.0 Secs]	[2]
	7	RBS144-G1 60M-FPPOS 4 (COS.sp.244 060)	(1) RBS144	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=14 86			1380 Secs [==>1486.0 Secs]	[2]



Proposal 12604 - Visit 02 - Ionization in the Magellanic Stream: A Case Study of Galactic Accretion

Wed Jan 18 02:09:05 GMT 2012

Visit	Proposal 12604, Visit 02, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV Special Requirements: (none)									
	(Visit 02) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	PHL2525	RA: 00 00 24.4235 (.1017646d) Dec: -12 45 47.76 (-12.76327d) Equinox: J2000		V=16.3 F_1031=2.1e-14 (FUSE)	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	PHL2525-A CQ/SEAR H (COS.sp.346 435)	(2) PHL2525	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	SCAN-SIZE=2; CENTER=FLUX-W T			3.5 Secs [==>]	[1]
	2	PHL2525-A CQ/PEAKX D (COS.sp.346 435)	(2) PHL2525	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				3.5 Secs [==>]	[1]
	3	PHL2525-A CQ/PEAKD (COS.sp.346 435)	(2) PHL2525	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	NUM-POS=5.0; STEP-SIZE=0.9			3.5 Secs [==>]	[1]
	4	PHL2525-G 130M-FPPO S3 (COS.sp.244 068)	(2) PHL2525	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 73			1000 Secs [==>1073.0 Secs]	[1]
	5	PHL2525-G 130M-FPPO S4 (COS.sp.244 068)	(2) PHL2525	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=10 73			1000 Secs [==>1073.0 Secs]	[1]
	6	PHL2525-G 160M-FPPO S3 (COS.sp.244 063)	(2) PHL2525	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=13 86			1380 Secs [==>1386.0 Secs]	[2]
	7	PHL2525-G 160M-FPPO S4 (COS.sp.244 063)	(2) PHL2525	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=13 86			1380 Secs [==>1386.0 Secs]	[2]



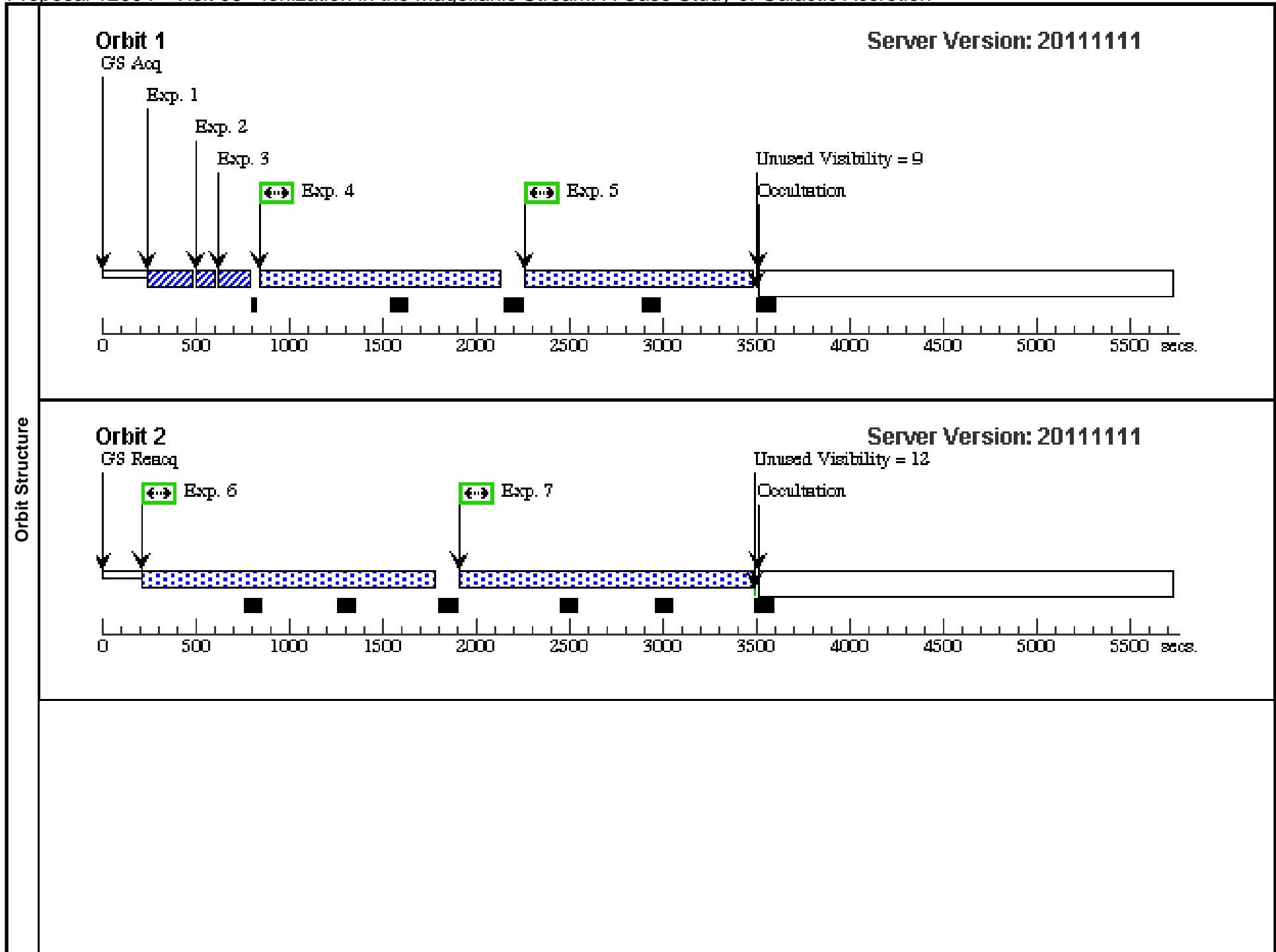
Proposal 12604 - Visit 03 - Ionization in the Magellanic Stream: A Case Study of Galactic Accretion

Wed Jan 18 02:09:06 GMT 2012

Visit	Proposal 12604, Visit 03, implementation Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: (none)					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(3)		FAIRALL9	RA: 01 23 45.7483 (20.9406179d) Dec: -58 48 20.65 (-58.80574d) Equinox: J2000		V=13.23 F_1031=1.5e-14 (FUSE), F_1300 expected to be brighter (GHRS spectrum rises to longer wavelengths)	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						

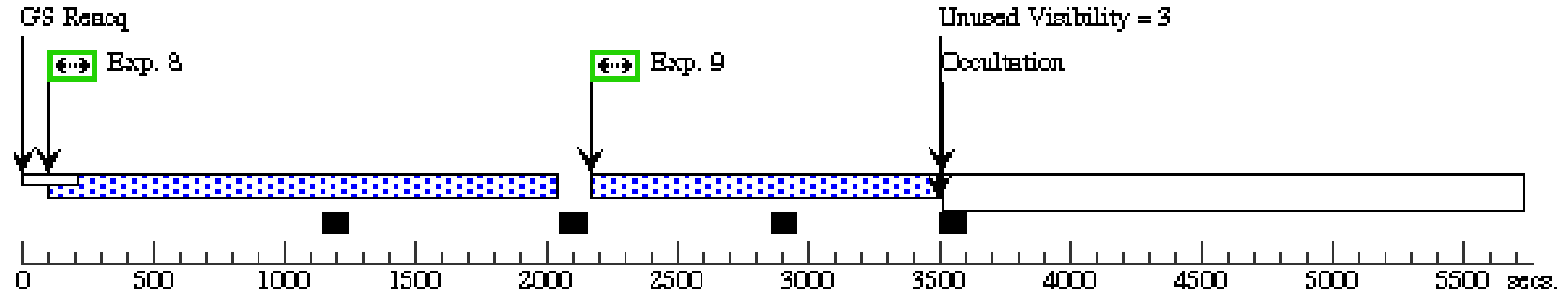
Proposal 12604 - Visit 03 - Ionization in the Magellanic Stream: A Case Study of Galactic Accretion

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	FAIRALL9- ACQ/SEAR CH (COS.sp.184 709)	(3) FAIRALL9	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	SCAN-SIZE=2; CENTER=FLUX-W T		3.5 Secs [==>]	[1]
	2	FAIRALL9- ACQ/PEAK XD (COS.sp.184 709)	(3) FAIRALL9	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A			3.5 Secs [==>]	[1]
	3	FAIRALL9- ACQ/PEAK D (COS.sp.184 709)	(3) FAIRALL9	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	NUM-POS=5.0; STEP-SIZE=0.9		3.5 Secs [==>]	[1]
	4	FAIRALL9- G130M-FPP OS1 (COS.sp.342 988)	(3) FAIRALL9	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=59 0		1150 Secs [==>1169.0 Secs]	[1]
	5	FAIRALL9- G130M-FPP OS2 (COS.sp.342 988)	(3) FAIRALL9	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=59 0		1150 Secs [==>1169.0 Secs]	[1]
	6	FAIRALL9- G130M-FPP OS3 (COS.sp.342 988)	(3) FAIRALL9	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=50 5		1539 Secs [==>1515.0 Secs]	[2]
	7	FAIRALL9- G130M-FPP OS4 (COS.sp.342 988)	(3) FAIRALL9	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=50 5		1539 Secs [==>1515.0 Secs]	[2]
	8	FAIRALL9- G160M-FPP OS1 (COS.sp.342 989)	(3) FAIRALL9	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=1; BUFFER-TIME=90 0		1776 Secs [==>1771.0 Secs]	[3]
	9	FAIRALL9- G160M-FPP OS2 (COS.sp.342 989)	(3) FAIRALL9	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=2; BUFFER-TIME=65 0		1271 Secs [==>1266.0 Secs]	[3]
	10	FAIRALL9- G160M-FPP OS3 (COS.sp.342 989)	(3) FAIRALL9	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=65 0		1296 Secs [==>1267.0 Secs]	[4]
	11	FAIRALL9- G160M-FPP OS4 (COS.sp.342 989)	(3) FAIRALL9	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=90 0		1801 Secs [==>1772.0 Secs]	[4]



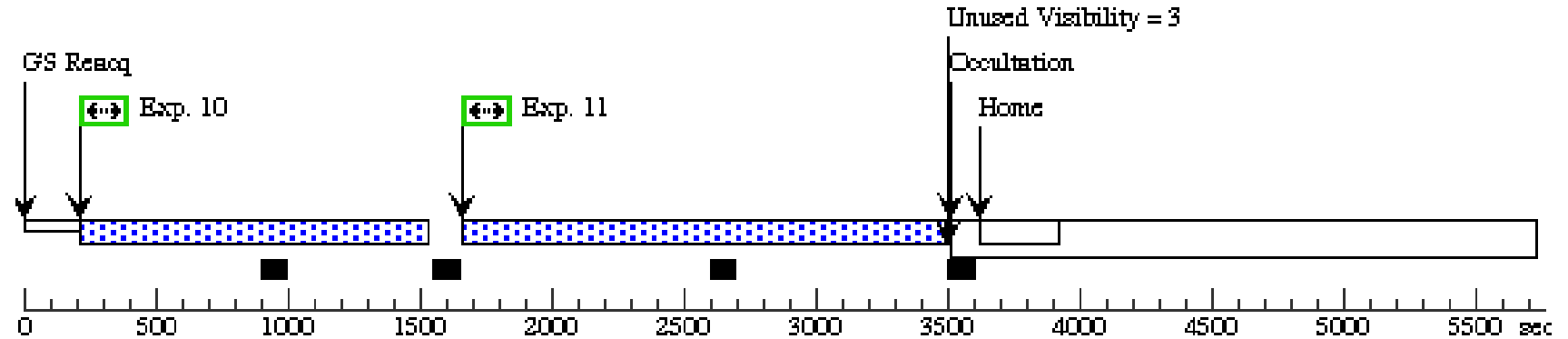
Orbit 3

Server Version: 20111111



Orbit 4

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Proposal 12604 - Visit 04 - Ionization in the Magellanic Stream: A Case Study of Galactic Accretion

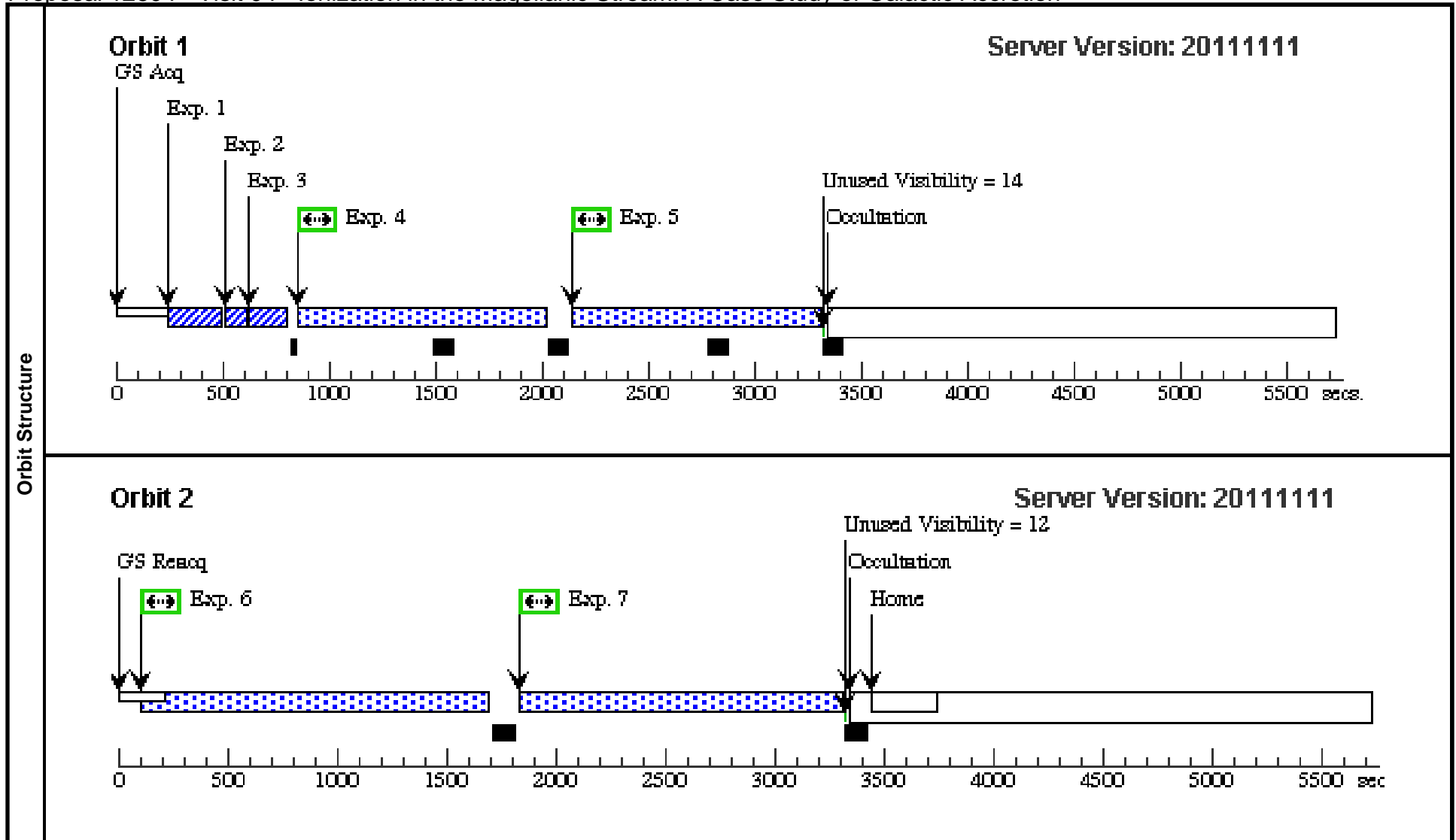
Wed Jan 18 02:09:07 GMT 2012

Visit	Proposal 12604, Visit 04, implementation
	Diagnostic Status: Warning
	Scientific Instruments: COS/FUV Special Requirements: (none)

Diagnostics	(Visit 04) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	ESO292-G24	RA: 23 47 0.6810 (356.7528375d) Dec: -44 45 43.16 (-44.76199d) Equinox: J2000		V=14.24 F_1031=4.8e-14 in 30"x30" FU SE aperture, F_1300 expected in COS apertur e ~1.0-2.0e-14	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	ESO292-G2 4-ACQ/SEA RCH (COS.sp.184 710)	(4) ESO292-G24	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	SCAN-SIZE=2; CENTER=FLUX-W T			5 Secs [==>]	[1]
	2	ESO292-G2 4-ACQ/PEA KXD (COS.sp.184 710)	(4) ESO292-G24	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				5 Secs [==>]	[1]
	3	ESO292-G2 4-ACQ/PEA KD (COS.sp.184 710)	(4) ESO292-G24	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	NUM-POS=5.0; STEP-SIZE=0.9			5 Secs [==>]	[1]
	4	ESO292-G2 4-G130M-F PPOS3 (COS.sp.342 994)	(4) ESO292-G24	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=60 0			1000 Secs [==>1114.0 Secs]	[1]
	5	ESO292-G2 4-G130M-F PPOS4 (COS.sp.342 994)	(4) ESO292-G24	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=60 0			1000 Secs [==>1114.0 Secs]	[1]
	6	ESO292-G2 4-G160M-F PPOS3 (COS.sp.342 993)	(4) ESO292-G24	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=14 29			1453 Secs [==>1429.0 Secs]	[2]
	7	ESO292-G2 4-G160M-F PPOS4 (COS.sp.342 993)	(4) ESO292-G24	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=14 29			1453 Secs [==>1429.0 Secs]	[2]

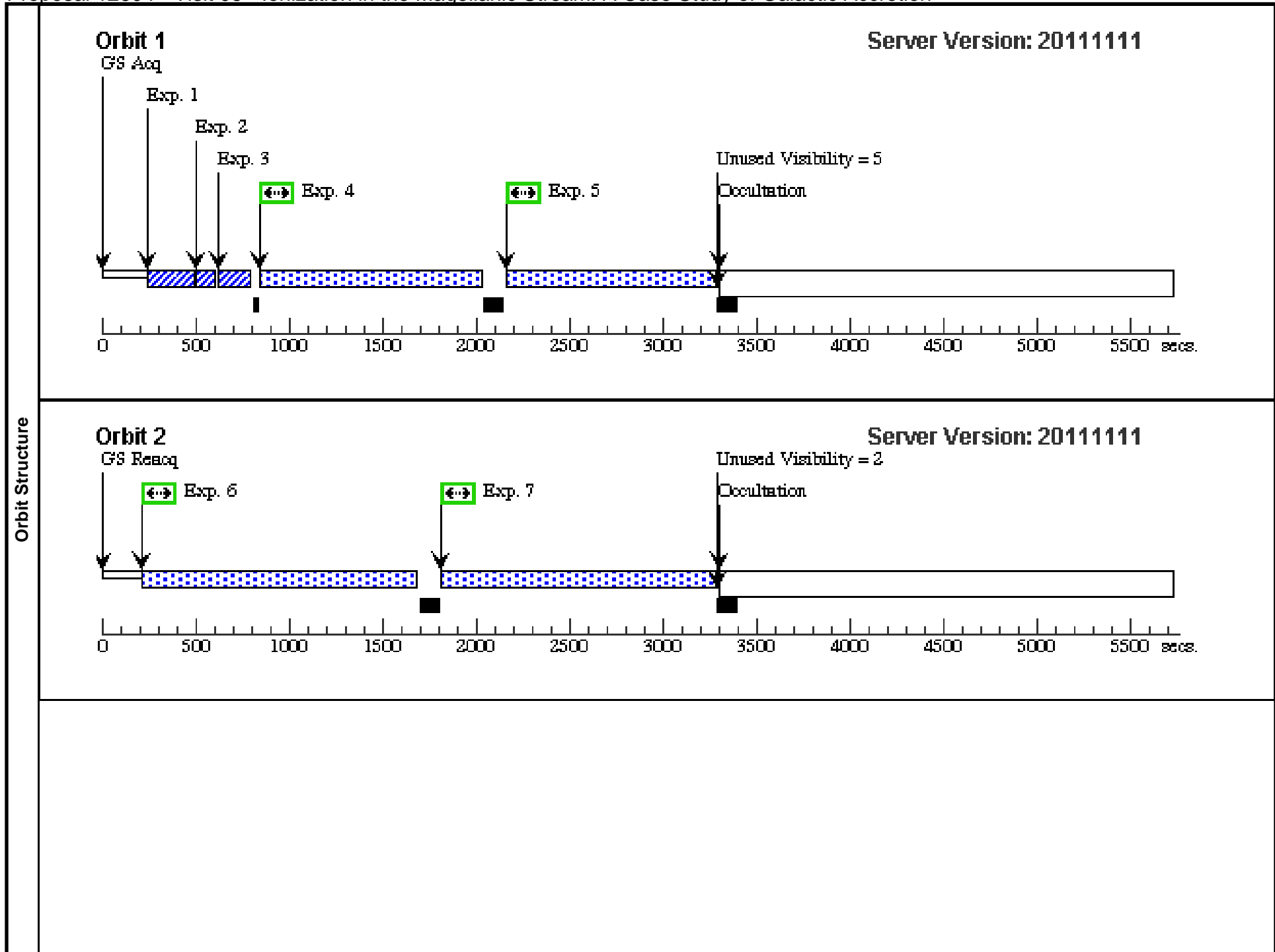


Proposal 12604 - Visit 05 - Ionization in the Magellanic Stream: A Case Study of Galactic Accretion

Visit	Proposal 12604, Visit 05, implementation Wed Jan 18 02:09:08 GMT 2012 Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: (none)					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(5)		HE0056-3622	RA: 00 58 37.3867 (14.6557779d) Dec: -36 06 5.03 (-36.10140d) Equinox: J2000		V=14.9 F_1300=1.2e-14 (IUE)	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						

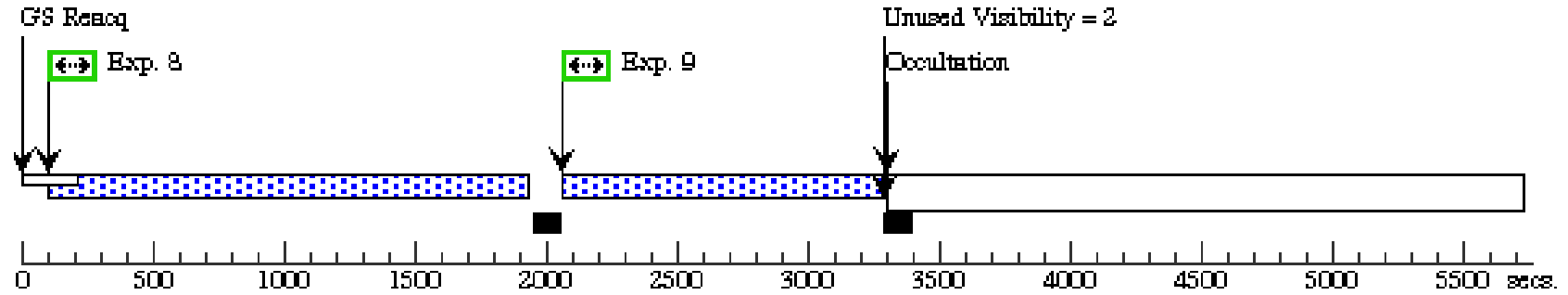
Proposal 12604 - Visit 05 - Ionization in the Magellanic Stream: A Case Study of Galactic Accretion

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	HE0056-362 2-ACQ/SEA RCH (COS.sp.184 709)	(5) HE0056-3622	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	SCAN-SIZE=2; CENTER=FLUX-W T		4 Secs [==>]	[1]
	2	HE0056-362 2-ACQ/PEA KXD (COS.sp.184 709)	(5) HE0056-3622	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A			4 Secs [==>]	[1]
	3	HE0056-362 2-ACQ/PEA KD (COS.sp.184 709)	(5) HE0056-3622	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	NUM-POS=5.0; STEP-SIZE=0.9		4 Secs [==>]	[1]
	4	HE0056-362 2-G130M-F PPOS1 (COS.sp.244 092)	(5) HE0056-3622	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=10 64		1000 Secs [==>1064.0 Secs]	[1]
	5	HE0056-362 2-G130M-F PPOS2 (COS.sp.244 092)	(5) HE0056-3622	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=10 64		1000 Secs [==>1064.0 Secs]	[1]
	6	HE0056-362 2-G130M-F PPOS3 (COS.sp.244 092)	(5) HE0056-3622	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=14 15		1415 Secs [==>]	[2]
	7	HE0056-362 2-G130M-F PPOS4 (COS.sp.244 092)	(5) HE0056-3622	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=14 15		1415 Secs [==>]	[2]
	8	HE0056-362 2-G160M-F PPOS1 (COS.sp.244 093)	(5) HE0056-3622	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=1; BUFFER-TIME=16 64		1664 Secs [==>]	[3]
	9	HE0056-362 2-G160M-F PPOS2 (COS.sp.244 093)	(5) HE0056-3622	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=2; BUFFER-TIME=11 64		1164 Secs [==>]	[3]
	10	HE0056-362 2-G160M-F PPOS3 (COS.sp.244 093)	(5) HE0056-3622	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=11 62		1162 Secs [==>]	[4]
	11	HE0056-362 2-G160M-F PPOS4 (COS.sp.244 093)	(5) HE0056-3622	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=16 67		1667 Secs [==>]	[4]



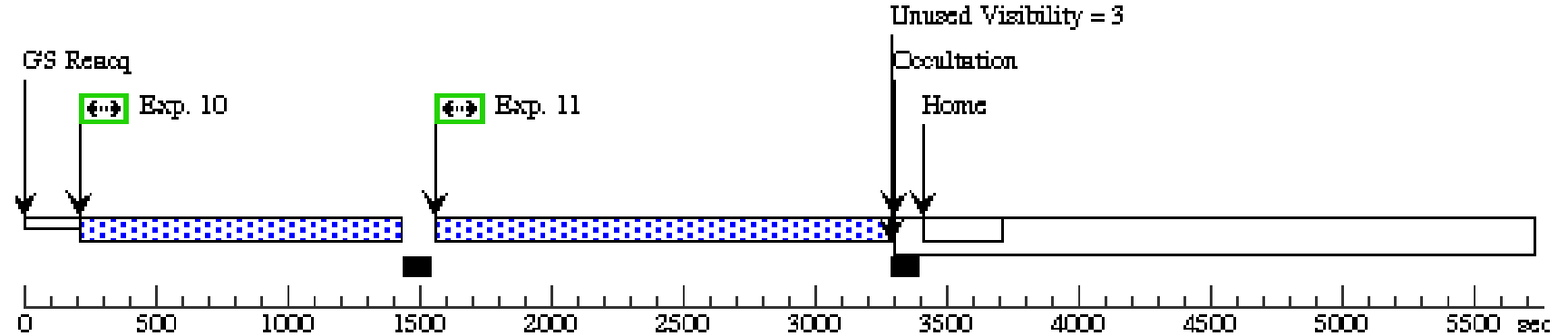
Orbit 3

Server Version: 20111111



Orbit 4

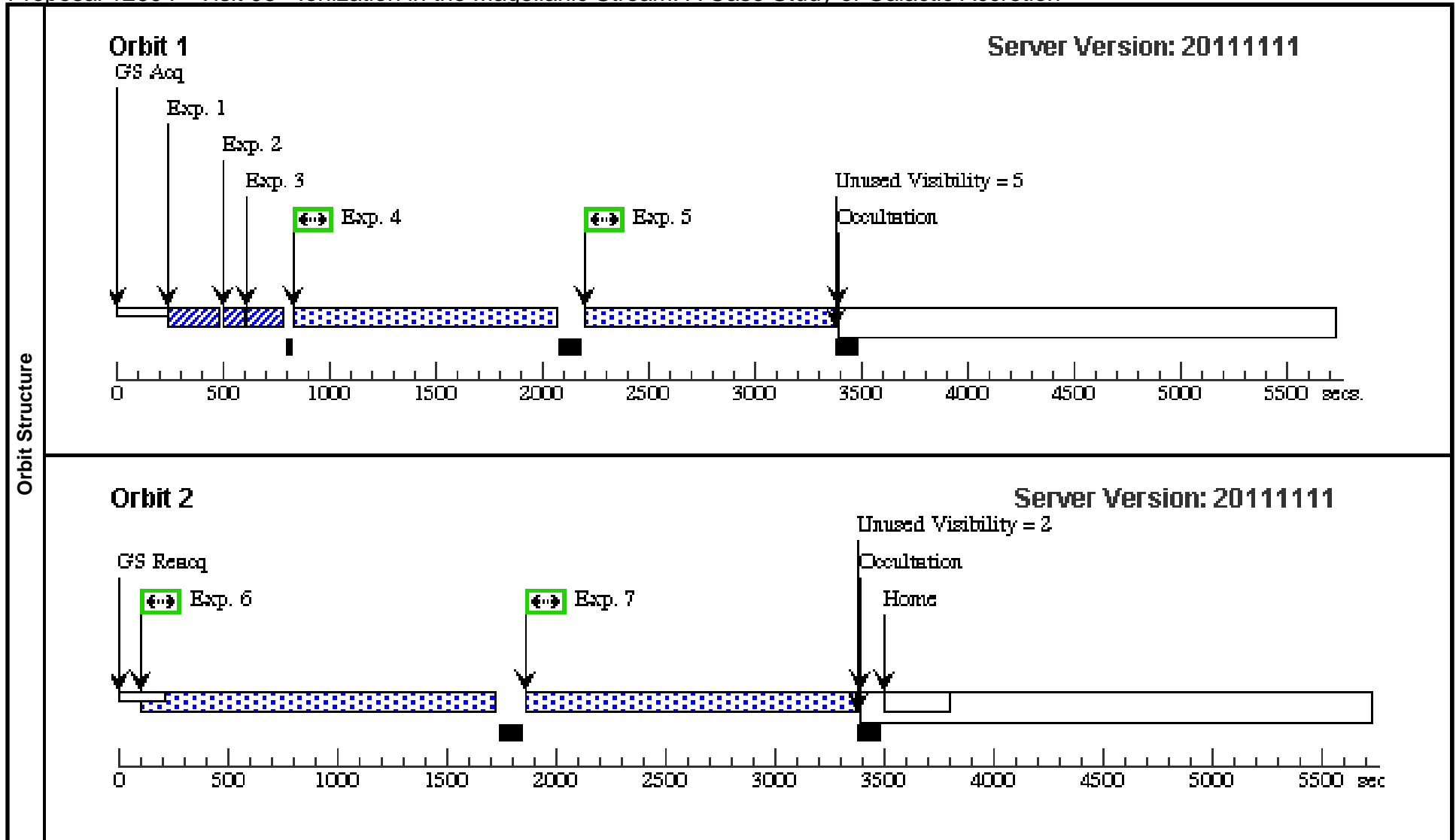
Server Version: 20111111



Proposal 12604 - Visit 06 - Ionization in the Magellanic Stream: A Case Study of Galactic Accretion

Wed Jan 18 02:09:08 GMT 2012

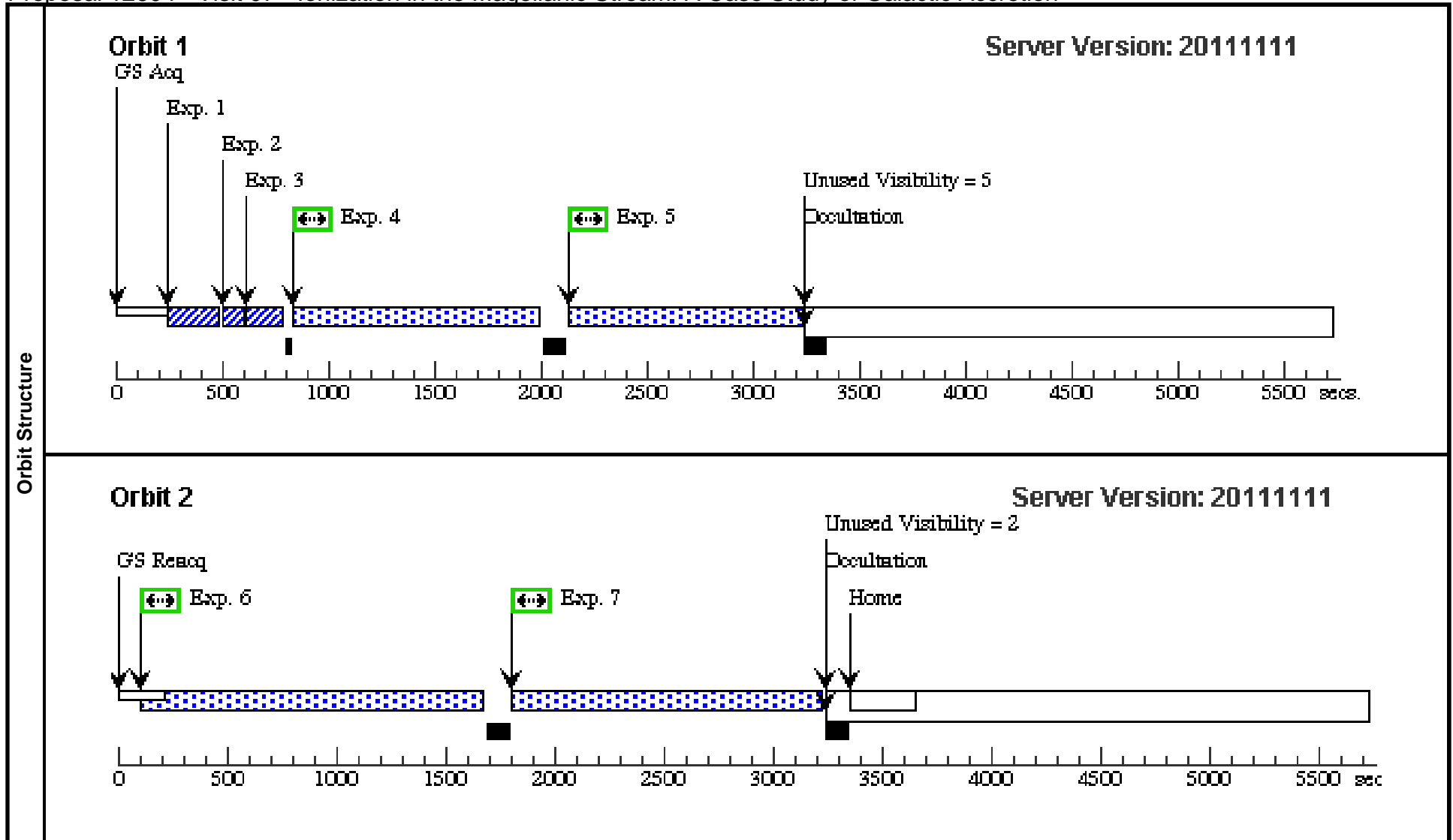
Visit	Proposal 12604, Visit 06, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV Special Requirements: (none)									
	(Visit 06) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	RBS1892 Alt Name1: RXJ2245.3-4652	RA: 22 45 20.3094 (341.3346225d) Dec: -46 52 11.80 (-46.86994d) Equinox: J2000		V=14.8 F_1300=2.6e-14 (IUE)	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	RBS1892-A CQ/SEAR H (COS.sp.346 462)	(6) RBS1892	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	SCAN-SIZE=2; CENTER=FLUX-W T			3 Secs [==>]	[1]
	2	RBS1892-A CQ/PEAKX D (COS.sp.346 462)	(6) RBS1892	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				3 Secs [==>]	[1]
	3	RBS1892-A CQ/PEAKD (COS.sp.346 462)	(6) RBS1892	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	NUM-POS=5.0; STEP-SIZE=0.9			3 Secs [==>]	[1]
	4	RBS1892-G 130M-FPPO S1 (COS.sp.244 095)	(6) RBS1892	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=11 14			950 Secs [==>1114.0 Secs]	[1]
	5	RBS1892-G 130M-FPPO S2 (COS.sp.244 095)	(6) RBS1892	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=11 14			950 Secs [==>1114.0 Secs]	[1]
	6	RBS1892-G 160M-FPPO S1 (COS.sp.244 094)	(6) RBS1892	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=1; BUFFER-TIME=14 59			1478 Secs [==>1459.0 Secs]	[2]
	7	RBS1892-G 160M-FPPO S2 (COS.sp.244 094)	(6) RBS1892	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=2; BUFFER-TIME=14 59			1478 Secs [==>1459.0 Secs]	[2]



Proposal 12604 - Visit 07 - Ionization in the Magellanic Stream: A Case Study of Galactic Accretion

Wed Jan 18 02:09:09 GMT 2012

Visit	Proposal 12604, Visit 07, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV Special Requirements: (none)									
	(Visit 07) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	MRK304	RA: 22 17 12.2739 (334.3011412d) Dec: +14 14 20.93 (14.23915d) Equinox: J2000		V=14.66 F_1031=2.4e-14 (FUSE)	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	MRK304-A CQ/SEAR H (COS.sp.346 463)	(7) MRK304	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	SCAN-SIZE=2; CENTER=FLUX-W T			3 Secs [==>]	[1]
	2	MRK304-A CQ/PEAKX D (COS.sp.346 463)	(7) MRK304	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				3 Secs [==>]	[1]
	3	MRK304-A CQ/PEAKD (COS.sp.346 463)	(7) MRK304	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	NUM-POS=5.0; STEP-SIZE=0.9			3 Secs [==>]	[1]
	4	MRK304-G 130M-FPPO S1 (COS.sp.244 098)	(7) MRK304	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=10 41			1000 Secs [==>1041.0 Secs]	[1]
	5	MRK304-G 130M-FPPO S2 (COS.sp.244 098)	(7) MRK304	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=10 41			1000 Secs [==>1041.0 Secs]	[1]
	6	MRK304-G 160M-FPPO S1 (COS.sp.244 099)	(7) MRK304	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=1; BUFFER-TIME=14 05			1405 Secs [==>]	[2]
	7	MRK304-G 160M-FPPO S2 (COS.sp.244 099)	(7) MRK304	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=2; BUFFER-TIME=13 67			1405 Secs [==>1367.0 Secs]	[2]



Proposal 12604 - Visit 08 - Ionization in the Magellanic Stream: A Case Study of Galactic Accretion

Wed Jan 18 02:09:09 GMT 2012

Visit	Proposal 12604, Visit 08, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV Special Requirements: (none)									
	(Visit 08) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	NGC7714	RA: 23 36 14.0990 (354.0587458d) Dec: +02 09 18.07 (2.15502d) Equinox: J2000		V=13.1 F_1300=1.9e-14 measured with HST/GHRS with similar aperture to HST/COS	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	NGC7714-A CQ/SEARCH H (COS.sp.184710)	(8) NGC7714	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	SCAN-SIZE=2; CENTER=FLUX-W T			4 Secs [==>]	[1]
	2	NGC7714-A CQ/PEAKXD (COS.sp.184710)	(8) NGC7714	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				4 Secs [==>]	[1]
	3	NGC7714-A CQ/PEAKD (COS.sp.184710)	(8) NGC7714	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	NUM-POS=5.0; STEP-SIZE=0.9			4 Secs [==>]	[1]
	4	NGC7714-G 130M-FPPO S1 (COS.sp.342991)	(8) NGC7714	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=52 5			1108 Secs [==>1031.0 Secs]	[1]
	5	NGC7714-G 130M-FPPO S2 (COS.sp.342991)	(8) NGC7714	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=52 5			1108 Secs [==>1031.0 Secs]	[1]
	6	NGC7714-G 160M-FPPO S1 (COS.sp.342992)	(8) NGC7714	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=1; BUFFER-TIME=70 0			1399 Secs [==>1380.0 Secs]	[2]
	7	NGC7714-G 160M-FPPO S2 (COS.sp.342992)	(8) NGC7714	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=2; BUFFER-TIME=70 0			1399 Secs [==>1380.0 Secs]	[2]

