



11728 - The Impact of Starbursts on the Gaseous Halos of Galaxies

Cycle: 17, Proposal Category: GO

(Availability Mode: AVAILABLE)

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) SDSSJ161916.54+334238.4	COS/FUV COS/NUV	3	09-Feb-2011 21:01:12.0	yes
19	(1) SDSSJ161916.54+334238.4	COS/FUV COS/NUV	3	09-Feb-2011 21:01:18.0	yes
02	(2) SDSSJ084349.75+261910.8	COS/FUV COS/NUV	2	09-Feb-2011 21:01:23.0	yes
03	(3) SDSSJ13205941+295728.1	COS/FUV COS/NUV	2	09-Feb-2011 21:01:26.0	yes
04	(4) SDSSJ122115.32-020253.3	COS/FUV COS/NUV	4	09-Feb-2011 21:01:30.0	yes
05	(5) SDSSJ122534.79-024757.1	COS/FUV COS/NUV	2	09-Feb-2011 21:01:36.0	yes

Proposal 11728 (STScI Edit Number: 0, Created: Wednesday, February 9, 2011 9:02:19 PM EST) - Overview

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
06	(6) SDSSJ230845.59-091123.9	COS/FUV COS/NUV	2	09-Feb-2011 21:01:39.0	yes
07	(7) SDSSJ075620.08+304535.3	COS/FUV COS/NUV	4	09-Feb-2011 21:01:43.0	yes
08	(8) SDSSJ154530.24+484609.0	COS/FUV COS/NUV	1	09-Feb-2011 21:01:47.0	yes
09	(9) SDSSJ140505.77+470441.1	COS/FUV COS/NUV	4	09-Feb-2011 21:01:52.0	yes
10	(10) SDSSJ092837.98+602521.0	COS/FUV COS/NUV	1	09-Feb-2011 21:01:55.0	yes
11	(11) SDSSJ151140.33+402721.6	COS/FUV COS/NUV	1	09-Feb-2011 21:01:57.0	yes
12	(12) SDSSJ101000.69+300321.5	COS/FUV COS/NUV	1	09-Feb-2011 21:02:00.0	yes
13	(13) SDSSJ085259.22+031320.6	COS/FUV COS/NUV	1	09-Feb-2011 21:02:03.0	yes
14	(14) SDSSJ100744.54+500746.6	COS/FUV COS/NUV	1	09-Feb-2011 21:02:05.0	yes
15	(15) SDSSJ161711.42+063833.4	COS/FUV COS/NUV	2	09-Feb-2011 21:02:08.0	yes
16	(16) SDSSJ120329.84+480313.6	COS/FUV COS/NUV	1	09-Feb-2011 21:02:10.0	yes
17	(17) SDSSJ102847.00+391800.5	COS/FUV COS/NUV	1	09-Feb-2011 21:02:13.0	yes
18	(18) SDSSJ132144.97+033055.7	COS/FUV COS/NUV	1	09-Feb-2011 21:02:15.0	yes

37 Total Orbits Used

ABSTRACT

Perhaps the most important (yet uncertain) aspects of galaxy evolution are the processes by which galaxies accrete gas and by which the resulting star formation and black hole growth affects this accreting gas. It is believed that both the form of the accretion and the nature of the feedback change as a function of the galaxy mass. At low mass the gas comes in cold and the feedback is provided by massive stars. At high mass, the gas comes in hot, and the feedback is from an AGN. The changeover occurs near the mass where the galaxy population transitions from star-forming galaxies to red and dead ones. The population of red and dead galaxies is building with cosmic time, and it is believed that feedback plays an important role in this process: shutting down star formation by heating and/or expelling the reservoir of cold halo gas. To investigate these ideas, we propose to use COS far-UV spectra of background QSOs to measure the properties of the halo gas in a sample of galaxies near the transition mass that have undergone starbursts within the past 100 Myr to 1 Gyr. The galactic wind associated with the starburst is predicted to have affected the properties of the gaseous halo. To test this, we will compare the properties of the halos of the post-starburst galaxies to those of a control sample of galaxies matched in mass and QSO impact parameter. Do the halos of the post-starburst galaxies show a higher incidence rate of Ly-Alpha and metal absorption-lines? Are the kinematics of the halo gas more disturbed in the post-starbursts? Has the wind affected the ionization state and/or the metallicity of the halo? These data will provide fresh new insights into the role of feedback from massive stars on the evolution of galaxies, and may also offer clues about the properties of the QSO metal absorption-line systems at high-redshift

OBSERVING DESCRIPTION

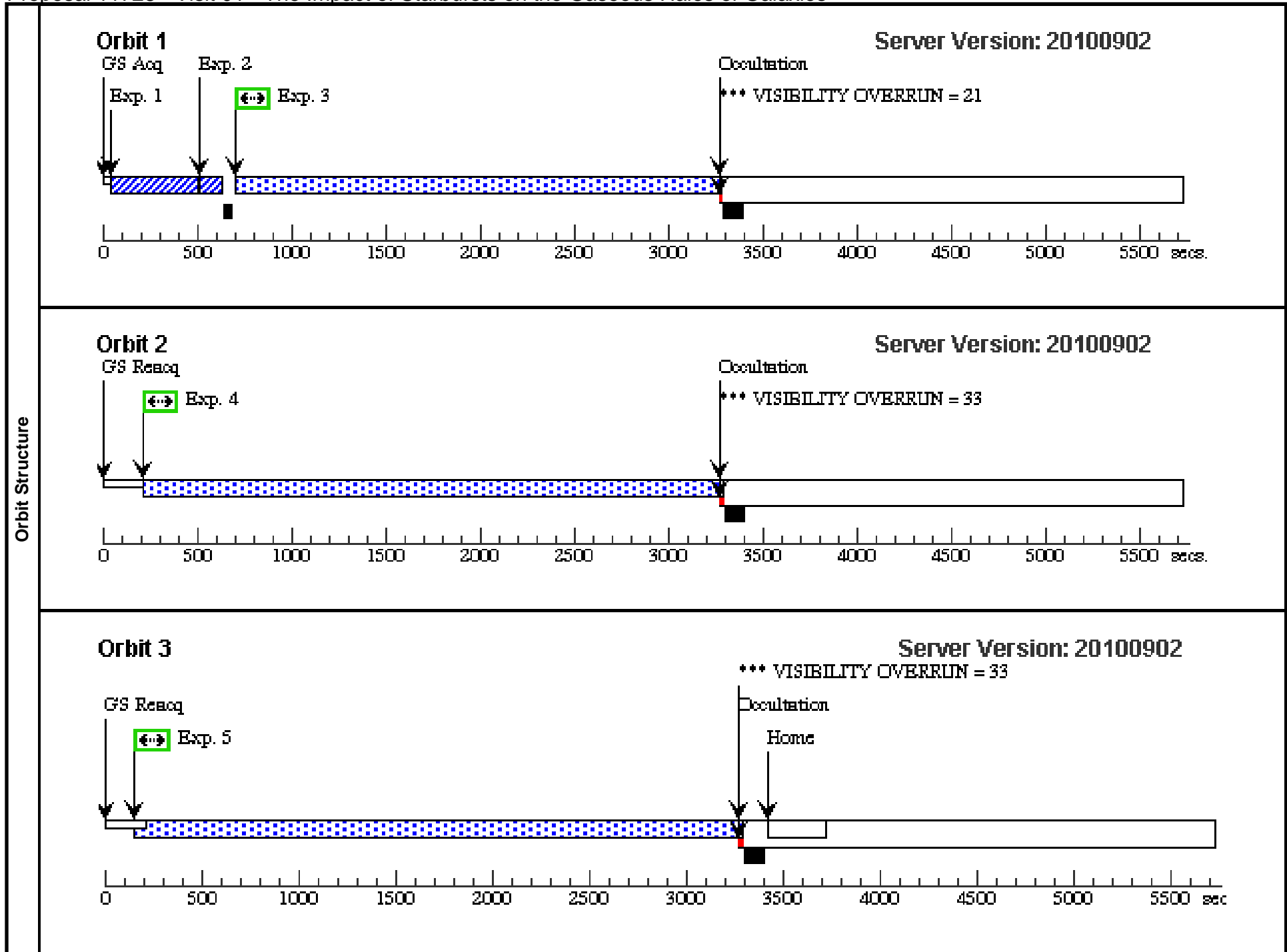
Observations show that the CIV absorption-line clouds seen in the spectra of background QSOs have a covering factor of near-unity in galaxy halos out to a radius of ~ 160 kpc (for $H_0 = 70$ km s⁻¹, $\Omega_M = 0.3$, and $\Omega_\Lambda = 0.7$). The CIV1548 rest equivalent widths range from 0.1 to 2 Å. Our goal is to achieve a signal-to-noise sufficient to detect the weakest such lines at better than the 4 sigma confidence level, which requires a S/N of ~ 15 per spectral resolution element. To estimate the required observing time we have used the COS Exposure Time Calculator (ETC). For each target we have used the GALEX FUV magnitude (1550 Å), the generic QSO spectrum supplied by the ETC, and the redshifts for each QSO and galaxy from SDSS to calculate the exposure time necessary to achieve a signal-to-noise of 15 per resolution element at the wavelength of the redshifted CIV absorption-line. The corresponding S/N per resolution element for Ly-alpha is typically 25. The required exposure times require from one to four orbits per target. The total is 24 orbits for the post-starbursts and 10 orbits for the control sample, for a total request of 34

Proposal 11728 (STScI Edit Number: 0, Created: Wednesday, February 9, 2011 9:02:19 PM EST) - Overview
orbits.

Proposal 11728 - Visit 01 - The Impact of Starbursts on the Gaseous Halos of Galaxies

Thu Feb 10 02:02:20 GMT 2011

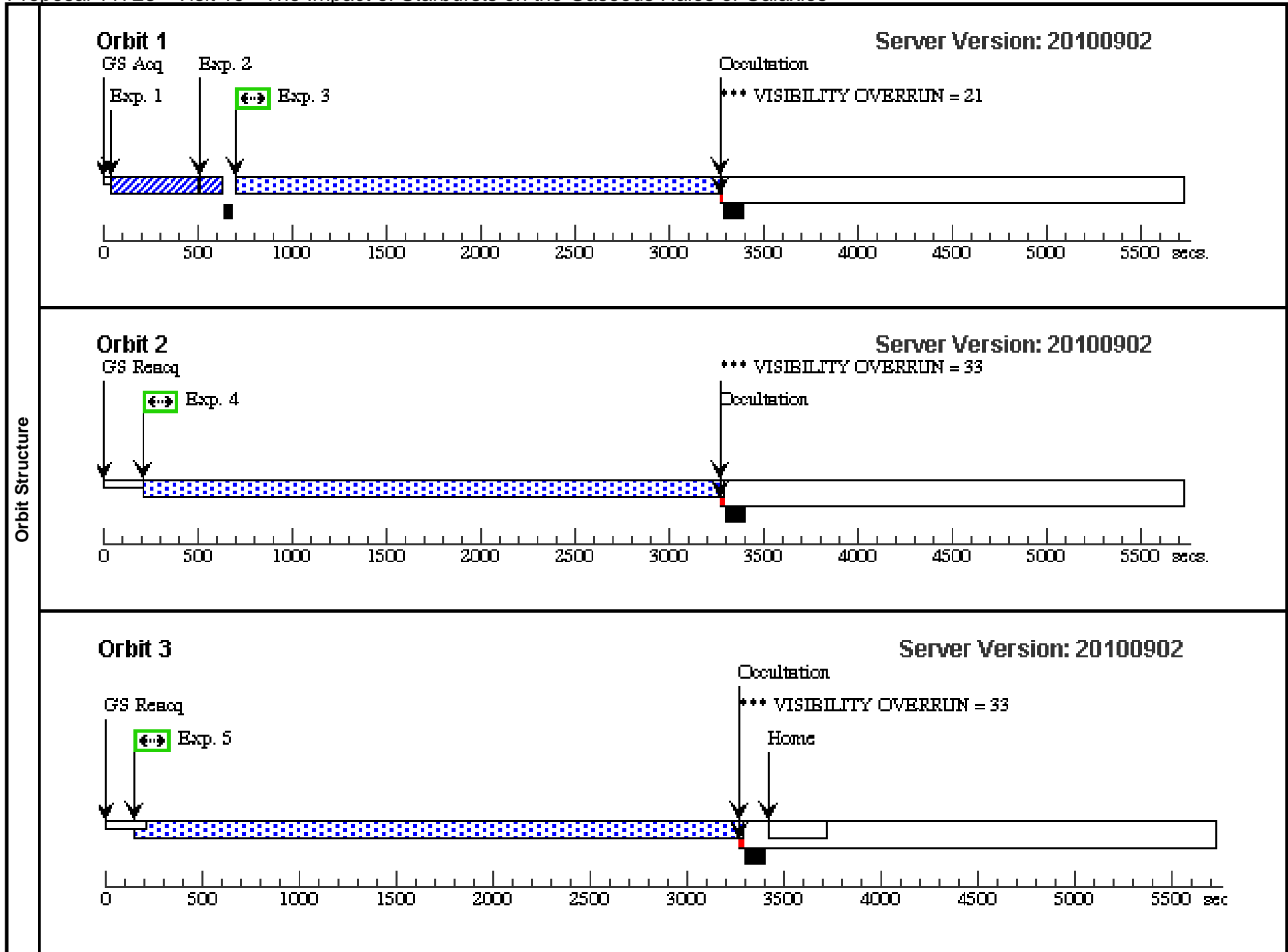
Visit	Proposal 11728, Visit 01, completed Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none)									
Diagnostics	(Visit 01) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 01) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 01) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 01) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SDSSJ161916.54+334238.4	RA: 16 19 16.5400 (244.8189167d) Dec: +33 42 38.40 (33.71067d) Equinox: J2000		V=16.85+/-0.03 FUV = 18.56	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Acq/Search Target 1	(1) SDSSJ161916.54 +334238.4	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2			6 Secs [==>]	[1]
	2	Acq/Image Target 1	(1) SDSSJ161916.54 +334238.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				6 Secs [==>]	[1]
	3	Science Exposure 1	(1) SDSSJ161916.54 +334238.4	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=2403; FP-POS=1; FLASH=YES			2403 Secs [==>]	[1]
	4	Science Exposure 2	(1) SDSSJ161916.54 +334238.4	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=3022; FP-POS=3; FLASH=YES			3022 Secs [==>]	[2]
	5	Science Exposure 3	(1) SDSSJ161916.54 +334238.4	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=3022; FP-POS=1; FLASH=YES			3022 Secs [==>]	[3]



Proposal 11728 - Visit 19 - The Impact of Starbursts on the Gaseous Halos of Galaxies

Thu Feb 10 02:02:21 GMT 2011

Visit	Proposal 11728, Visit 19 Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none) <i>Comments: HOPR copy of visit 1</i>										
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous				
	(1)	SDSSJ161916.54+334238.4	RA: 16 19 16.5400 (244.8189167d) Dec: +33 42 38.40 (33.71067d) Equinox: J2000			V=16.85+/-0.03 FUV = 18.56	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	Acq/Search Target 1	(1) SDSSJ161916.54 +334238.4	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2			6 Secs [==>]	[1]	
	2	Acq/Image Target 1	(1) SDSSJ161916.54 +334238.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				6 Secs [==>]	[1]	
	3	Science Exposure 1	(1) SDSSJ161916.54 +334238.4	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=2403;	FP-POS=1; FLASH=YES			2403 Secs [==>]	[1]
	4	Science Exposure 2	(1) SDSSJ161916.54 +334238.4	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=3022;	FP-POS=3; FLASH=YES			3022 Secs [==>]	[2]
	5	Science Exposure 3	(1) SDSSJ161916.54 +334238.4	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=3022;	FP-POS=1; FLASH=YES			3022 Secs [==>]	[3]

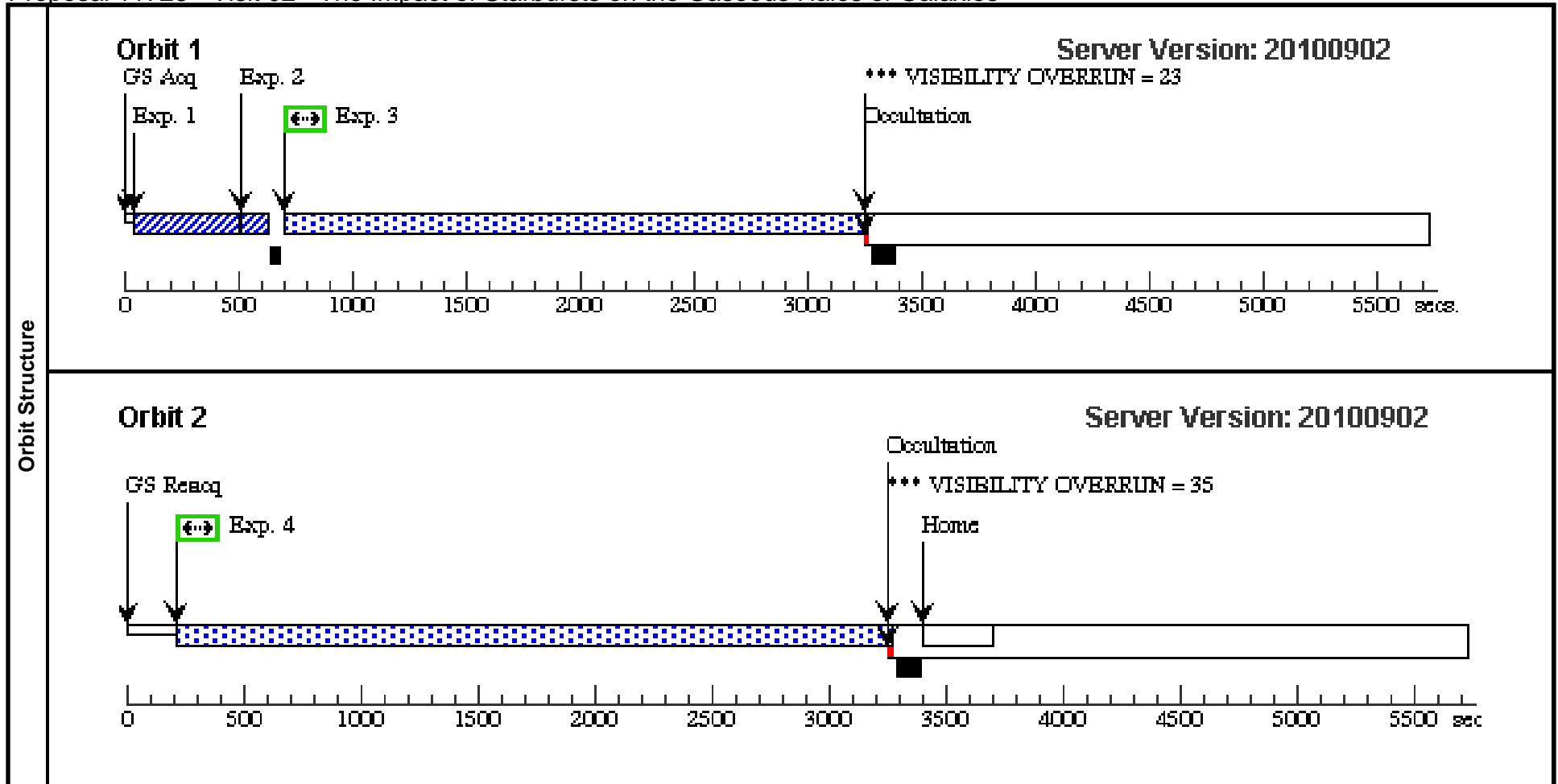


Orbit Structure

Proposal 11728 - Visit 02 - The Impact of Starbursts on the Gaseous Halos of Galaxies

Thu Feb 10 02:02:21 GMT 2011

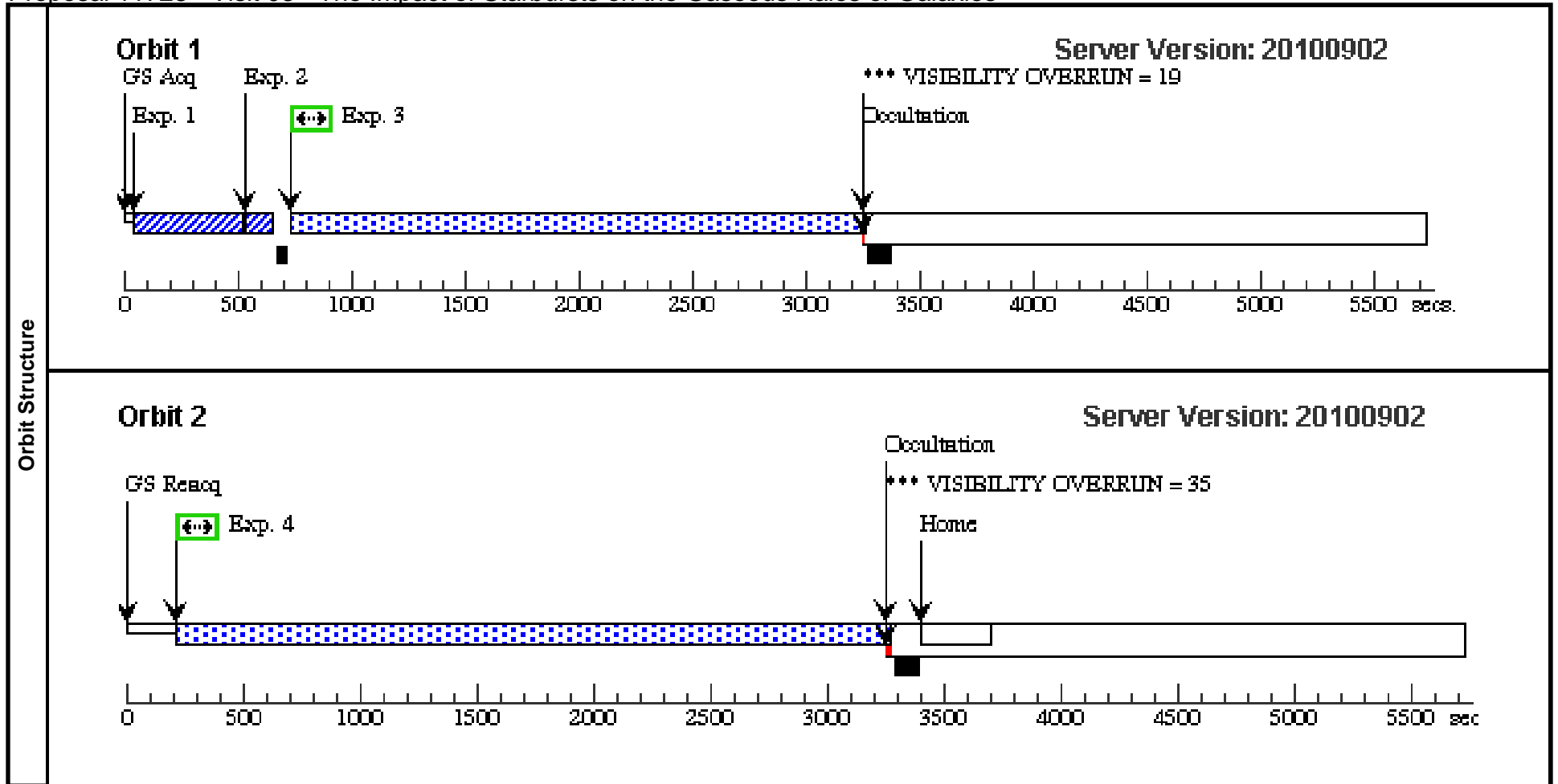
Visit	Proposal 11728, Visit 02, completed Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none)									
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Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	SDSSJ084349.75+261910.8	RA: 08 43 49.7500 (130.9572917d) Dec: +26 19 10.80 (26.31967d) Equinox: J2000		V=17.93+/-0.03 FUV = 18.36	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Acq/search target 2	(2) SDSSJ084349.75+261910.8	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2			6 Secs [==>]	[1]
	2	Acq/image target 2	(2) SDSSJ084349.75+261910.8	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				6 Secs [==>]	[1]
	3	Science exposure 1	(2) SDSSJ084349.75+261910.8	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=2387; FP-POS=1; FLASH=YES			2387 Secs [==>]	[1]
	4	Science Exposure 2	(2) SDSSJ084349.75+261910.8	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=3006; FP-POS=3; FLASH=YES			3006 Secs [==>]	[2]



Proposal 11728 - Visit 03 - The Impact of Starbursts on the Gaseous Halos of Galaxies

Thu Feb 10 02:02:22 GMT 2011

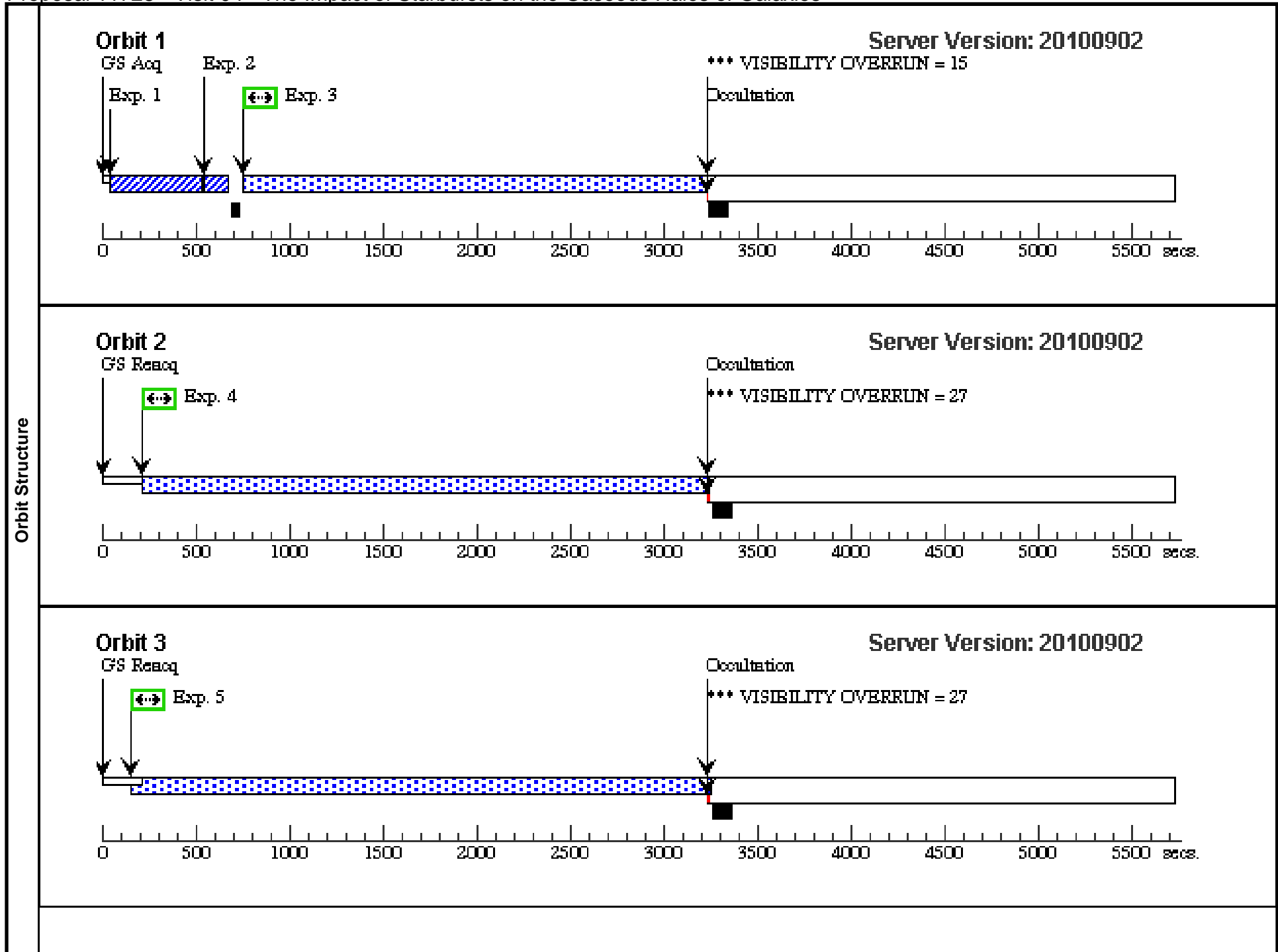
Visit	Proposal 11728, Visit 03, completed Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none)										
	(Visit 03) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 03) Warning (Orbit Planner): VISIBILITY OVERRUN										
Diagnosics											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(3)	SDSSJ13205941+295728.1	RA: 13 20 59.4100 (200.2475417d) Dec: +29 57 28.17 (29.95782d) Equinox: J2000		V=17.43+/-0.03 FUV = 18.48	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	Acq/search target 2	(3) SDSSJ13205941+295728.1	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2			10 Secs [==>]	[1]	
	2	Acq/image target 2	(3) SDSSJ13205941+295728.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				10 Secs [==>]	[1]	
	3	Science exposure 1	(3) SDSSJ13205941+295728.1	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=2359; 59;	FP-POS=1; FLASH=YES			2359 Secs [==>]	[1]
	4	Science Exposure 2	(3) SDSSJ13205941+295728.1	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=3006; 06;	FP-POS=3; FLASH=YES			3006 Secs [==>]	[2]

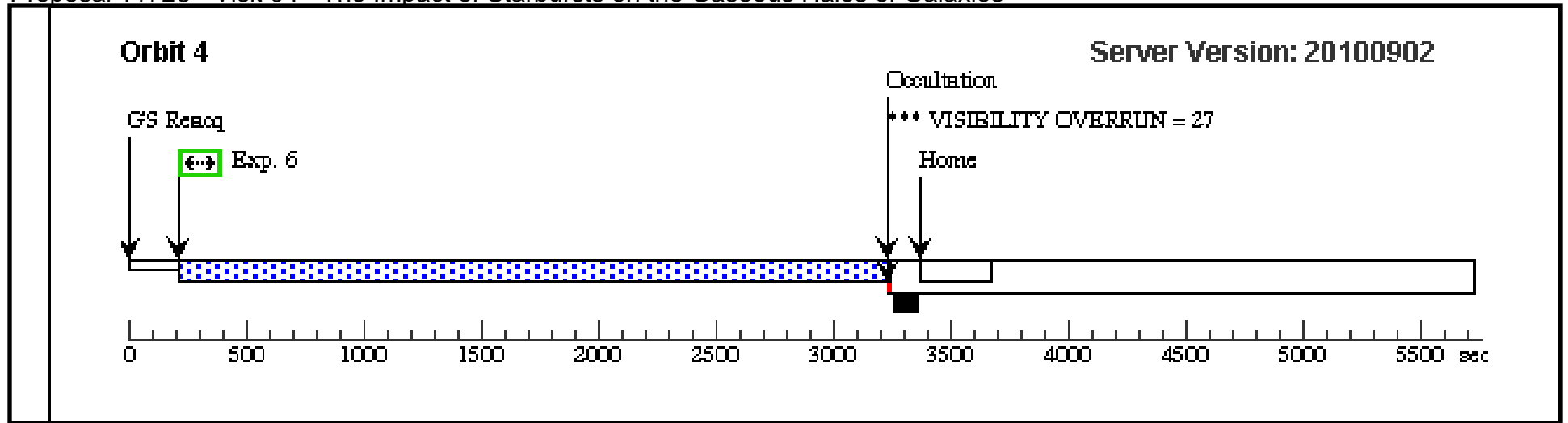


Proposal 11728 - Visit 04 - The Impact of Starbursts on the Gaseous Halos of Galaxies

Thu Feb 10 02:02:22 GMT 2011

Visit	Proposal 11728, Visit 04, completed Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none)										
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Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(4)	SDSSJ122115.32-020253.3	RA: 12 21 15.3200 (185.3138333d) Dec: -02 02 53.39 (-2.04816d) Equinox: J2000		V=17.57+/-0.03 FUV = 19.1	Reference Frame: ICRS				
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		1	Acq/Search Target 4	(4) SDSSJ122115.32 -020253.3	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2			14 Secs [==>]	[1]
	2	Acq/Image Target 4	(4) SDSSJ122115.32 -020253.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				14 Secs [==>]	[1]	
	3	Science Exposure 1	(4) SDSSJ122115.32 -020253.3	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=2308; FP-POS=1; FLASH=YES			2308 Secs [==>]	[1]	
	4	Science Exposure 2	(4) SDSSJ122115.32 -020253.3	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=3000; FP-POS=3; FLASH=YES			2975 Secs [==>]	[2]	
	5	Science Exposure 3	(4) SDSSJ122115.32 -020253.3	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=2975; FP-POS=2; FLASH=YES			2975 Secs [==>]	[3]	
	6	Science Exposure 4	(4) SDSSJ122115.32 -020253.3	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=2975; FP-POS=3; FLASH=YES			2975 Secs [==>]	[4]	

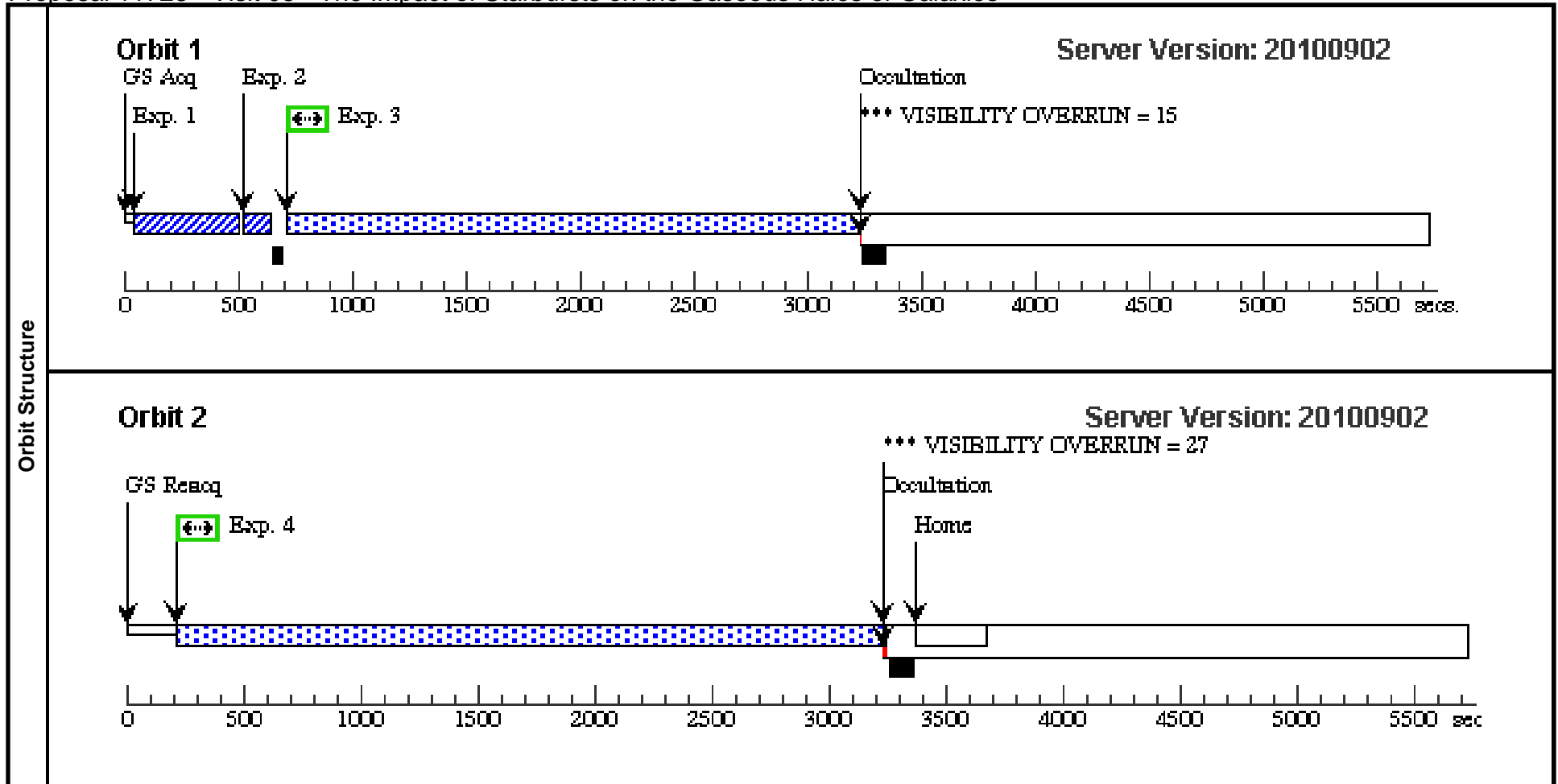




Proposal 11728 - Visit 05 - The Impact of Starbursts on the Gaseous Halos of Galaxies

Thu Feb 10 02:02:23 GMT 2011

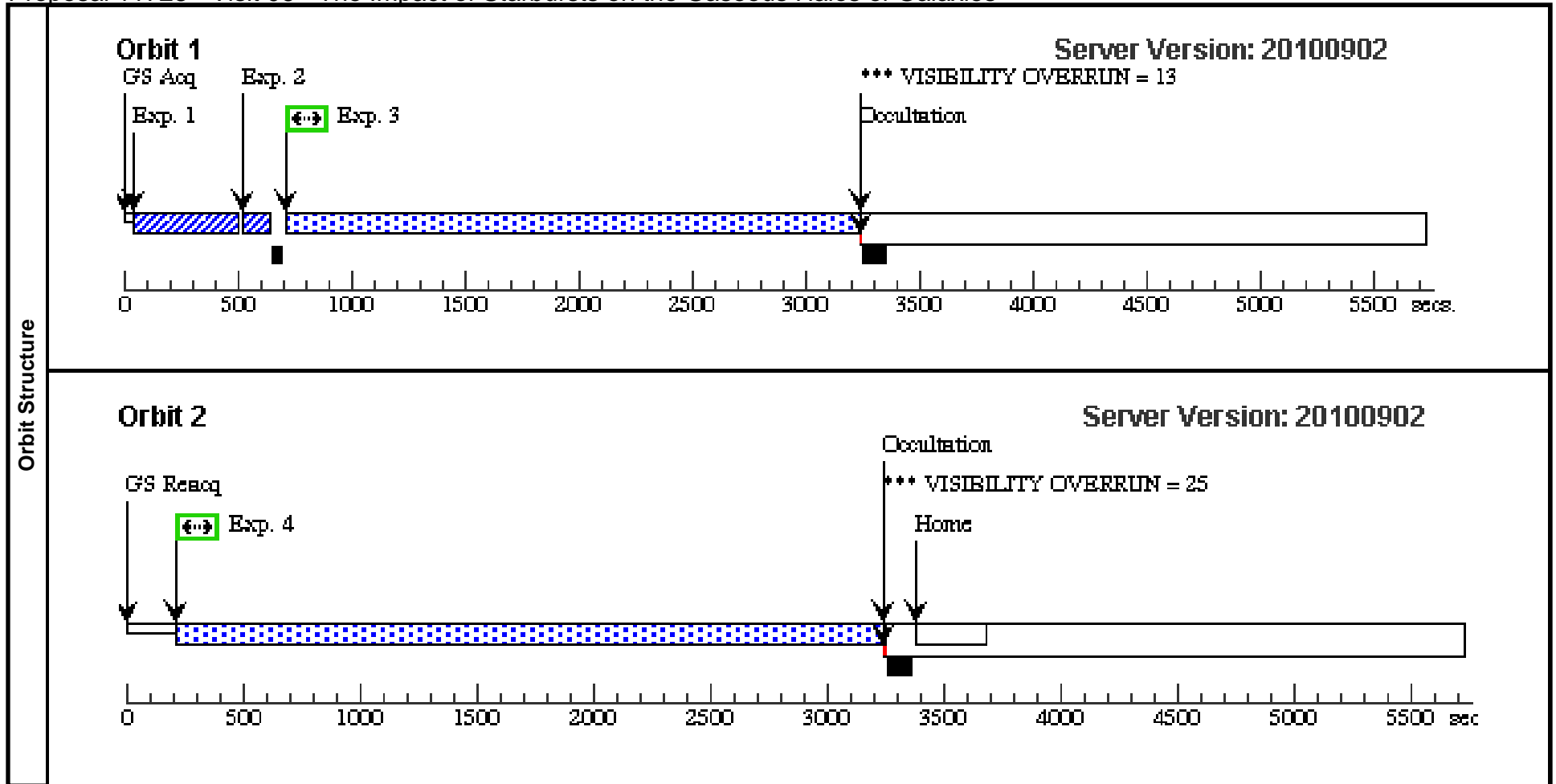
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Diagnosics											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(5)	SDSSJ122534.79-024757.1	RA: 12 25 34.7900 (186.3949583d) Dec: -02 47 57.10 (-2.79919d) Equinox: J2000		V=17.21+/-0.03 FUV = 18.5	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	Acq/Search	(5) SDSSJ122534.79-024757.1	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2			7 Secs		
									[==>]	[1]	
	2	Acq/Image	(5) SDSSJ122534.79-024757.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA					7 Secs	
										[==>]	[1]
	3	Science Exposure 1	(5) SDSSJ122534.79-024757.1	COS/FUV, TIME-TAG, PSA	G140L 1230 A		BUFFER-TIME=23 50; FP-POS=2; FLASH=YES			2350 Secs	
									[==>]	[1]	
4	Science Exposure 2	(5) SDSSJ122534.79-024757.1	COS/FUV, TIME-TAG, PSA	G140L 1230 A		BUFFER-TIME=29 75; FP-POS=3; FLASH=YES			2975 Secs		
									[==>]	[2]	



Proposal 11728 - Visit 06 - The Impact of Starbursts on the Gaseous Halos of Galaxies

Thu Feb 10 02:02:23 GMT 2011

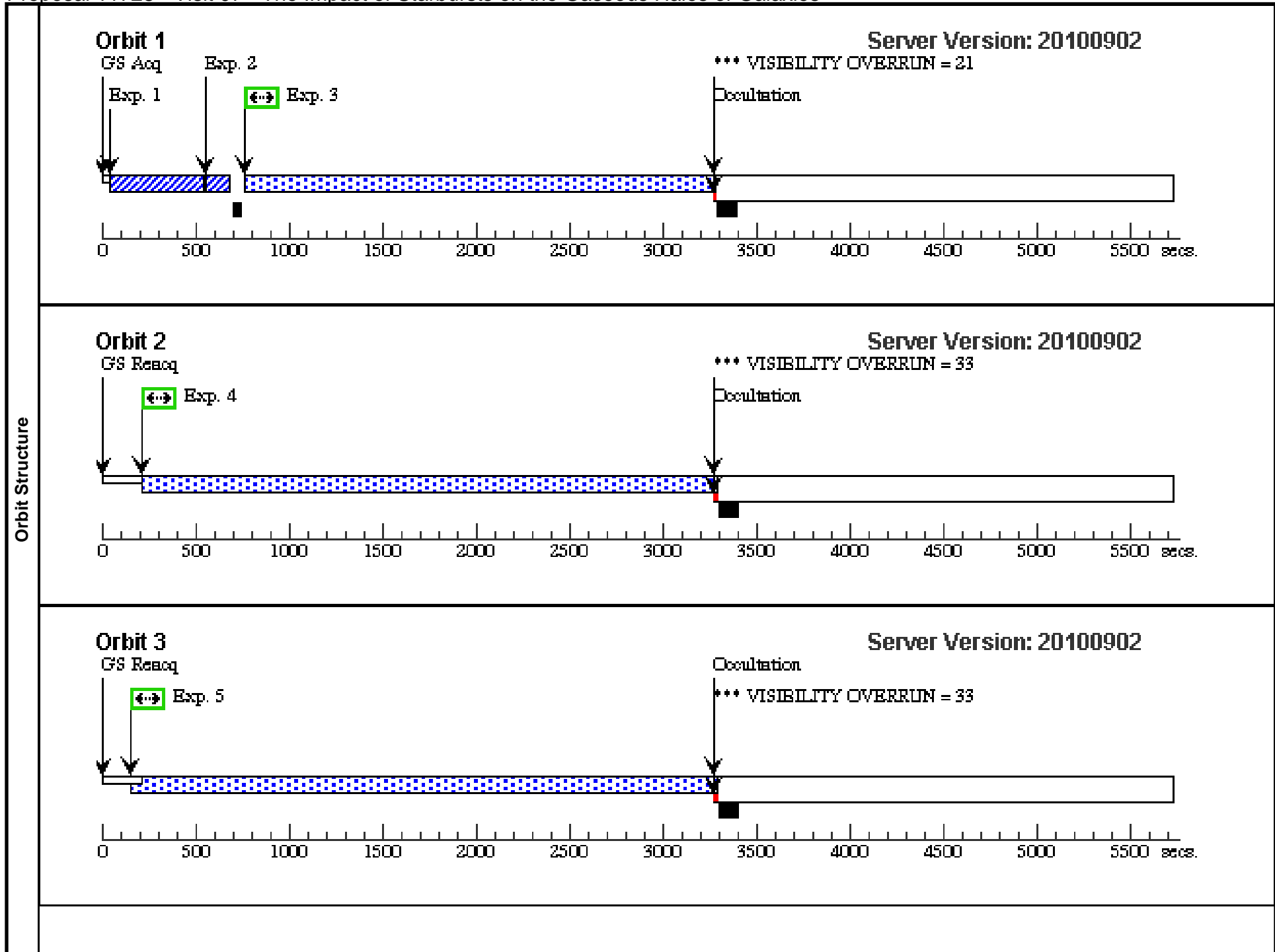
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Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	SDSSJ230845.59-091123.9	RA: 23 08 45.5900 (347.1899583d) Dec: -09 11 23.98 (-9.18999d) Equinox: J2000		V=17.36+/-0.03 FUV = 18.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Acc/Search	(6) SDSSJ230845.59-091123.9	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2			7 Secs	
									[==>]	[1]
	2	Acq/Image	(6) SDSSJ230845.59-091123.9	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				6 Secs	
									[==>]	[1]
	3	Science Exposure 1	(6) SDSSJ230845.59-091123.9	COS/FUV, TIME-TAG, PSA	G140L 1230 A		BUFFER-TIME=23 58; FP-POS=1; FLASH=YES			2358 Secs
								[==>]	[1]	
4	Science exposure 2	(6) SDSSJ230845.59-091123.9	COS/FUV, TIME-TAG, PSA	G140L 1230 A		BUFFER-TIME=29 81; FP-POS=3; FLASH=YES			2981 Secs	
								[==>]	[2]	

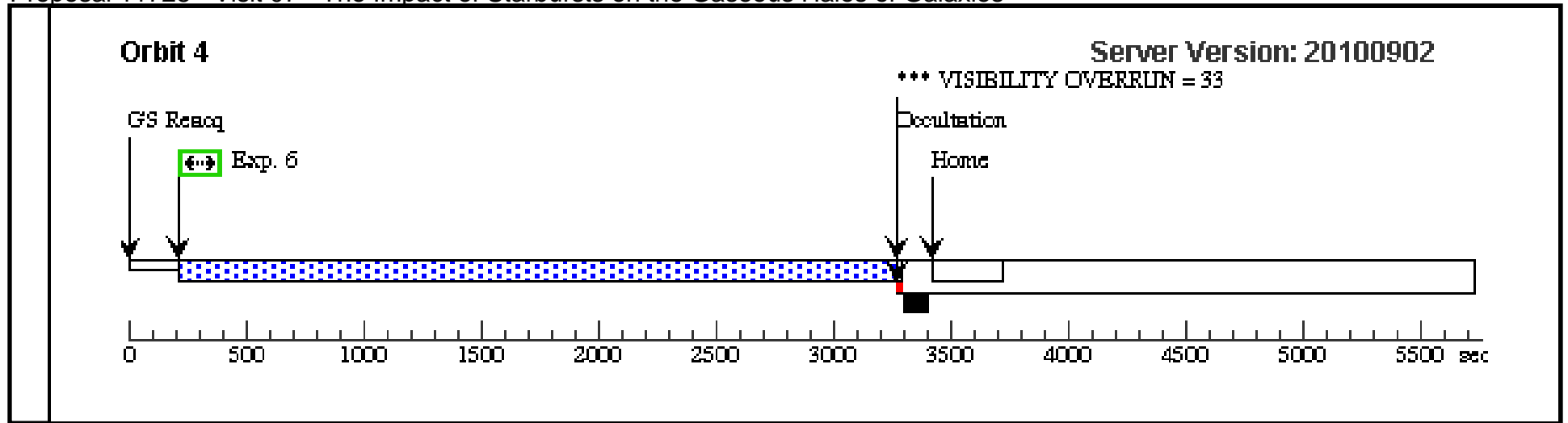


Proposal 11728 - Visit 07 - The Impact of Starbursts on the Gaseous Halos of Galaxies

Thu Feb 10 02:02:24 GMT 2011

Visit	Proposal 11728, Visit 07, completed Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none)										
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Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(7)	SDSSJ075620.08+304535.3	RA: 07 56 20.0800 (119.0836667d) Dec: +30 45 35.43 (30.75984d) Equinox: J2000		V=17.27+/-0.03 FUV = 19.2	Reference Frame: ICRS				
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		1	Acq/Search	(7) SDSSJ075620.08+304535.3	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2			15 Secs [==>]	[1]
	2	Acq/Image	(7) SDSSJ075620.08+304535.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				15 Secs [==>]	[1]	
	3	Science exposure 1	(7) SDSSJ075620.08+304535.3	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=23 49; FP-POS=1; FLASH=YES			2349 Secs [==>]	[1]	
	4	Science Exposure 2	(7) SDSSJ075620.08+304535.3	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=30 22; FP-POS=3; FLASH=YES			3022 Secs [==>]	[2]	
	5	Science Exposure 3	(7) SDSSJ075620.08+304535.3	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=30 22; FP-POS=1; FLASH=YES			3022 Secs [==>]	[3]	
	6	Science Exposure 4	(7) SDSSJ075620.08+304535.3	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=30 22; FP-POS=3; FLASH=YES			3022 Secs [==>]	[4]	





Proposal 11728 - Visit 08 - The Impact of Starbursts on the Gaseous Halos of Galaxies

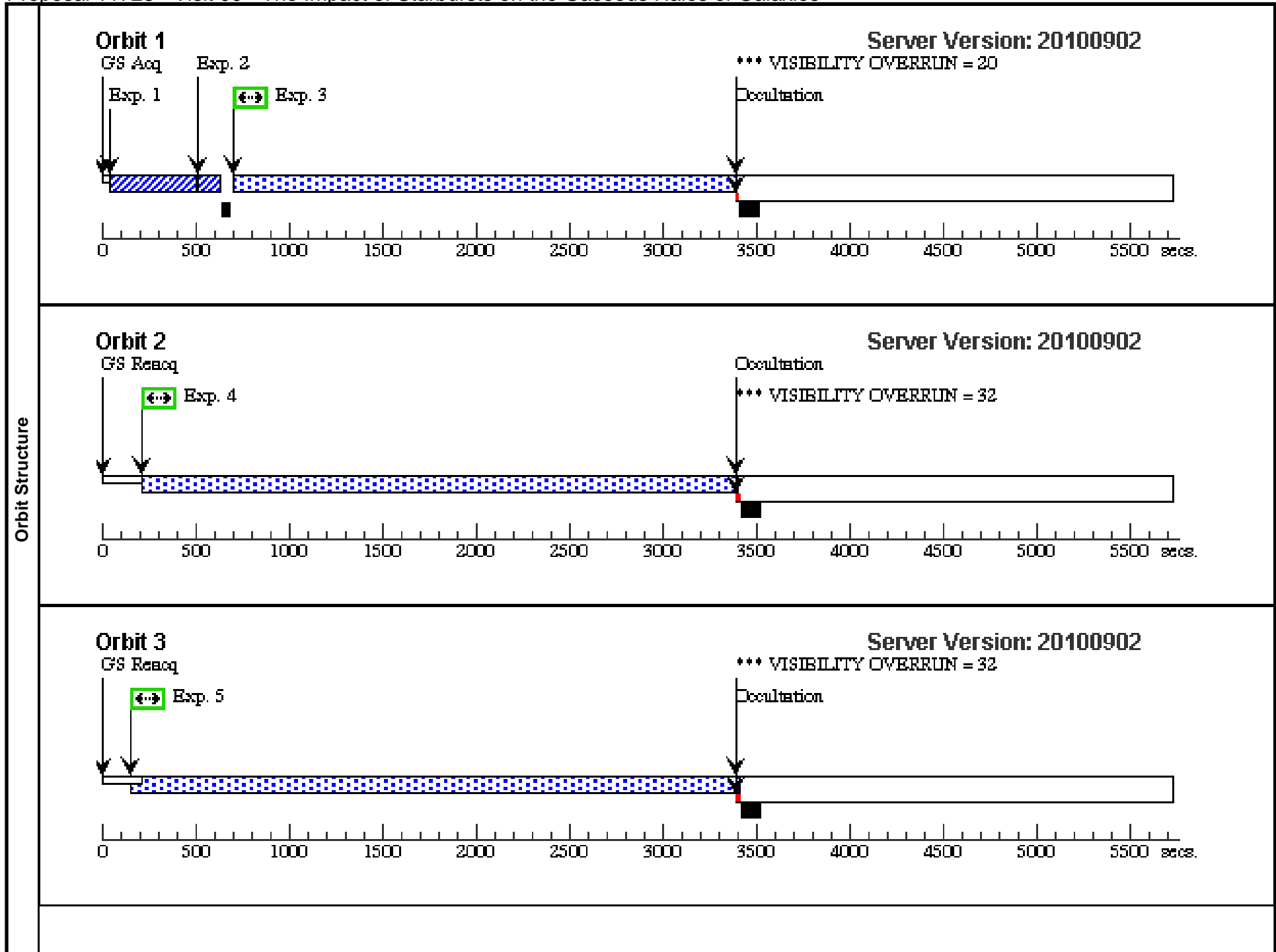
Thu Feb 10 02:02:24 GMT 2011

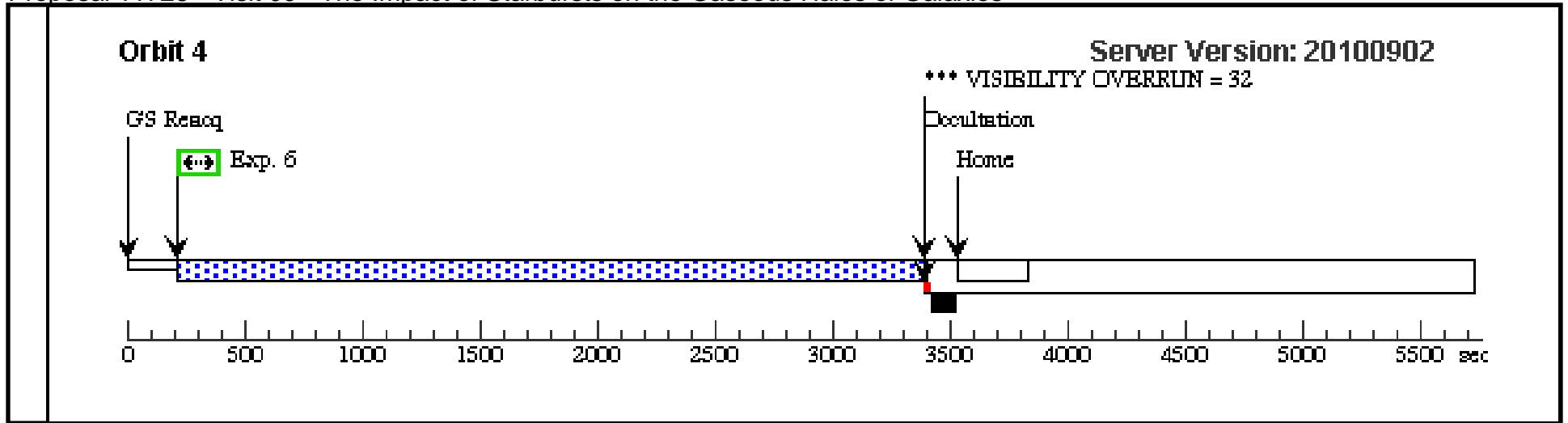
Visit	Proposal 11728, Visit 08, completed Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none)									
Diagnostics	(Visit 08) Warning (Orbit Planner): VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	SDSSJ154530.24+484609.0	RA: 15 45 30.2400 (236.3760000d) Dec: +48 46 8.95 (48.76915d) Equinox: J2000		V=16.42+/-0.03 FUV = 16.8	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Acq/Search	(8) SDSSJ154530.24+484609.0	COS/NUV, ACQ/SEARCH, PSA	MIRRORB	SCAN-SIZE=2			17 Secs [==>]	[1]
	2	Acq/Image	(8) SDSSJ154530.24+484609.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				17 Secs [==>]	[1]
	3	Science Exposure 1	(8) SDSSJ154530.24+484609.0	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=24 48; FP-POS=2; FLASH=YES			2448 Secs [==>]	[1]
Orbit Structure	<div style="display: flex; justify-content: space-between;"> <div> <p>Orbit 1</p> <p>The diagram shows a timeline from 0 to 5500 seconds. Key events include: GS Acq at 0s, Exp. 1 (blue hatched) from 0-100s, Exp. 2 (blue hatched) from 100-200s, Exp. 3 (green dotted) from 200-3400s, Occultation (red bar) from 3400-3500s, and Home (grey bar) from 3500-3800s. A black square marks the occultation start at 3400s.</p> </div> <div style="text-align: right;"> <p>Server Version: 20100902</p> <p>*** VISIBILITY OVERRUN = 39</p> </div> </div>									

Proposal 11728 - Visit 09 - The Impact of Starbursts on the Gaseous Halos of Galaxies

Thu Feb 10 02:02:25 GMT 2011

Visit	Proposal 11728, Visit 09, completed Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none)										
	Diagnostics	(Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 09) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS (Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN									
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(9)	SDSSJ140505.77+470441.1	RA: 14 05 5.7700 (211.2740417d) Dec: +47 04 41.16 (47.07810d) Equinox: J2000		V=17.64+/-0.03 FUV = 18.7	Reference Frame: ICRS				
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		1	Acq/Search	(9) SDSSJ140505.77+470441.1	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2			6 Secs [==>]	[1]
	2	Acq/Image	(9) SDSSJ140505.77+470441.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				6 Secs [==>]	[1]	
	3	Science Exposure 1	(9) SDSSJ140505.77+470441.1	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=25 18; FP-POS=1; FLASH=YES			2518 Secs [==>]	[1]	
	4	Science Exposure 2	(9) SDSSJ140505.77+470441.1	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=31 37; FP-POS=3; FLASH=YES			3137 Secs [==>]	[2]	
	5	Science Exposure 3	(9) SDSSJ140505.77+470441.1	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=31 37; FP-POS=1; FLASH=YES			3137 Secs [==>]	[3]	
	6	Science Exposure 4	(9) SDSSJ140505.77+470441.1	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=31 37; FP-POS=3; FLASH=YES			3137 Secs [==>]	[4]	





Proposal 11728 - Visit 10 - The Impact of Starbursts on the Gaseous Halos of Galaxies

Thu Feb 10 02:02:25 GMT 2011

Visit	Proposal 11728, Visit 10, completed Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none)										
	(Visit 10) Warning (Orbit Planner): VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(10)	SDSSJ092837.98+602521.0	RA: 09 28 37.9800 (142.1582500d) Dec: +60 25 21.00 (60.42250d) Equinox: J2000		V=17.21+/-0.03 FUV = 17.5	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	Acq/Search	(10) SDSSJ092837.98+602521.0	COS/NUV, ACQ/SEARCH, PSA	MIRRORB	SCAN-SIZE=2			32 Secs [==>]	[1]	
	2	Acq/Image	(10) SDSSJ092837.98+602521.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				32 Secs [==>]	[1]	
	3	Science Exposure 1	(10) SDSSJ092837.98+602521.0	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=24 91; FP-POS=2; FLASH=YES			2491 Secs [==>]	[1]	
Orbit Structure	<p>Orbit 1 Server Version: 20100902</p> <p>Timeline labels: GS Acq, Exp. 1, Exp. 2, Exp. 3, Occultation, Home.</p> <p>Text: *** VISIBILITY OVERRUN = 47</p> <p>X-axis: 0, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500 sec</p>										
	<p>Diagram description: The orbit structure shows a sequence of exposures. Exp. 1 (blue hatched) and Exp. 2 (blue dotted) are followed by Exp. 3 (green dotted), which is highlighted with a green box and double arrows. An occultation event occurs between 3500 and 3600 seconds, marked with a red bar and a black square. The 'Home' position is reached at approximately 3600 seconds. A text annotation indicates a visibility overrun of 47 seconds during the occultation.</p>										

Proposal 11728 - Visit 11 - The Impact of Starbursts on the Gaseous Halos of Galaxies

Thu Feb 10 02:02:25 GMT 2011

Visit	Proposal 11728, Visit 11, completed Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none)									
	(Visit 11) Warning (Orbit Planner): VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	SDSSJ151140.33+402721.6	RA: 15 11 40.3300 (227.9180417d) Dec: +40 27 21.60 (40.45600d) Equinox: J2000		V=17.13+/-0.03 FUV = 18.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Acq/Search	(11) SDSSJ151140.33+402721.6	COS/NUV, ACQ/SEARCH, PSA	MIRRORB	SCAN-SIZE=2			50 Secs [==>]	[1]
	2	Acq/Image	(11) SDSSJ151140.33+402721.6	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				50 Secs [==>]	[1]
	3	Science exposure 1	(11) SDSSJ151140.33+402721.6	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=2203; 03; FP-POS=2; FLASH=YES			2203 Secs [==>]	[1]
Orbit Structure	<p>Orbit 1 Server Version: 20100902</p> <p style="text-align: center;">*** VISIBILITY OVERRUN = 42</p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. At 0s, 'GS Acq' is indicated. Three exposures are shown as blue hatched bars: Exp. 1 (0-50s), Exp. 2 (50-100s), and Exp. 3 (100-340s). Exp. 3 is highlighted with a green box. At 340s, a red bar indicates a 'VISIBILITY OVERRUN' event. At 350s, 'Occultation' and 'Home' are marked. The timeline continues to 5500s.</p>									
	<p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec</p>									

Proposal 11728 - Visit 12 - The Impact of Starbursts on the Gaseous Halos of Galaxies

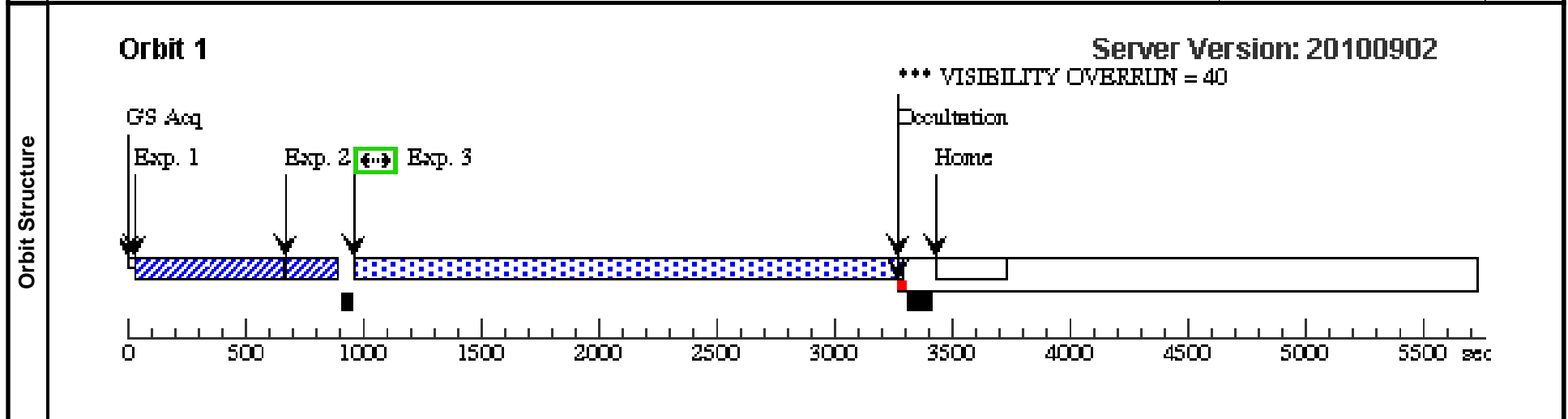
Thu Feb 10 02:02:26 GMT 2011

Visit	Proposal 11728, Visit 12, completed
	Diagnostic Status: Warning
	Scientific Instruments: COS/NUV, COS/FUV
	Special Requirements: (none)

Diagnostics	(Visit 12) Warning (Orbit Planner): VISIBILITY OVERRUN
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(12)	SDSSJ101000.69+300321.5	RA: 10 10 0.6900 (152.5028750d) Dec: +30 03 21.57 (30.05599d) Equinox: J2000		V=16.97+/-0.03 FUV = 17.9	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Acq/Search	(12) SDSSJ101000.69+300321.5	COS/NUV, ACQ/SEARCH, PSA	MIRRORB	SCAN-SIZE=2			46 Secs	
									[==>]	[1]
	2	Acq/Image	(12) SDSSJ101000.69+300321.5	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				46 Secs	
									[==>]	[1]
	3	Science Exposure 1	(12) SDSSJ101000.69+300321.5	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=21 59;	FP-POS=3; FLASH=YES		2159 Secs	
									[==>]	[1]



Proposal 11728 - Visit 13 - The Impact of Starbursts on the Gaseous Halos of Galaxies

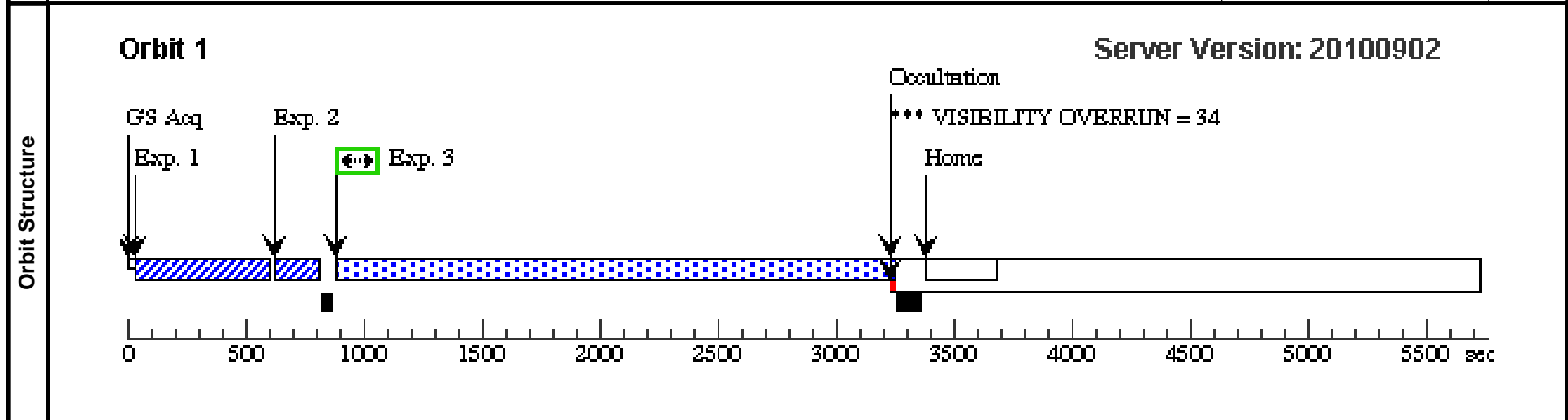
Thu Feb 10 02:02:26 GMT 2011

Visit	Proposal 11728, Visit 13, completed Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none)
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Diagnostics	(Visit 13) Warning (Orbit Planner): VISIBILITY OVERRUN
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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>(13)</td> <td>SDSSJ085259.22+031320.6</td> <td>RA: 08 52 59.2200 (133.2467500d) Dec: +03 13 20.60 (3.22239d) Equinox: J2000</td> <td></td> <td>V=16.20+/-0.03 FUV=17.5</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(13)	SDSSJ085259.22+031320.6	RA: 08 52 59.2200 (133.2467500d) Dec: +03 13 20.60 (3.22239d) Equinox: J2000		V=16.20+/-0.03 FUV=17.5	Reference Frame: ICRS
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous								
(13)	SDSSJ085259.22+031320.6	RA: 08 52 59.2200 (133.2467500d) Dec: +03 13 20.60 (3.22239d) Equinox: J2000		V=16.20+/-0.03 FUV=17.5	Reference Frame: ICRS								

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Acq/search	(13) SDSSJ085259.2 2+031320.6	COS/NUV, ACQ/SEARCH, PSA	MIRRORB	SCAN-SIZE=2			32 Secs [==>]	[1]
	2	Acq/Image	(13) SDSSJ085259.2 2+031320.6	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				32 Secs [==>]	[1]
	3	Science exposure 1	(13) SDSSJ085259.2 2+031320.6	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=21 96; FP-POS=2; FLASH=YES			2196 Secs [==>]	[1]



Proposal 11728 - Visit 14 - The Impact of Starbursts on the Gaseous Halos of Galaxies

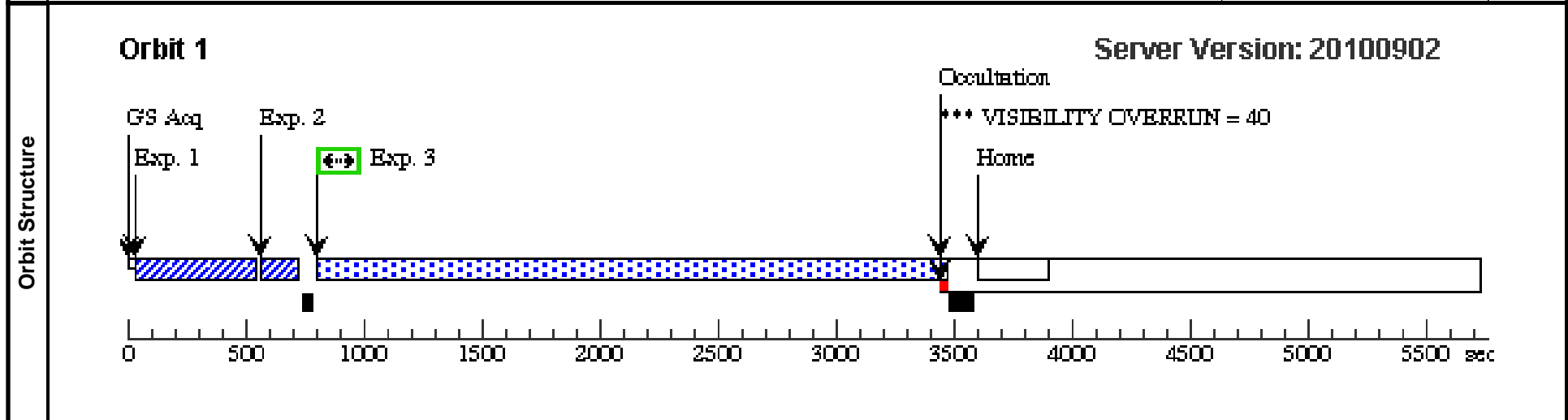
Thu Feb 10 02:02:26 GMT 2011

Visit	Proposal 11728, Visit 14, completed Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none)
	(Visit 14) Warning (Orbit Planner): VISIBILITY OVERRUN

Diagnostics	(Visit 14) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(14)	SDSSJ100744.54+500746.6	RA: 10 07 44.5400 (151.9355833d) Dec: +50 07 46.67 (50.12963d) Equinox: J2000		V=17.14+/-0.03 FUV=16.9	Reference Frame: ICRS

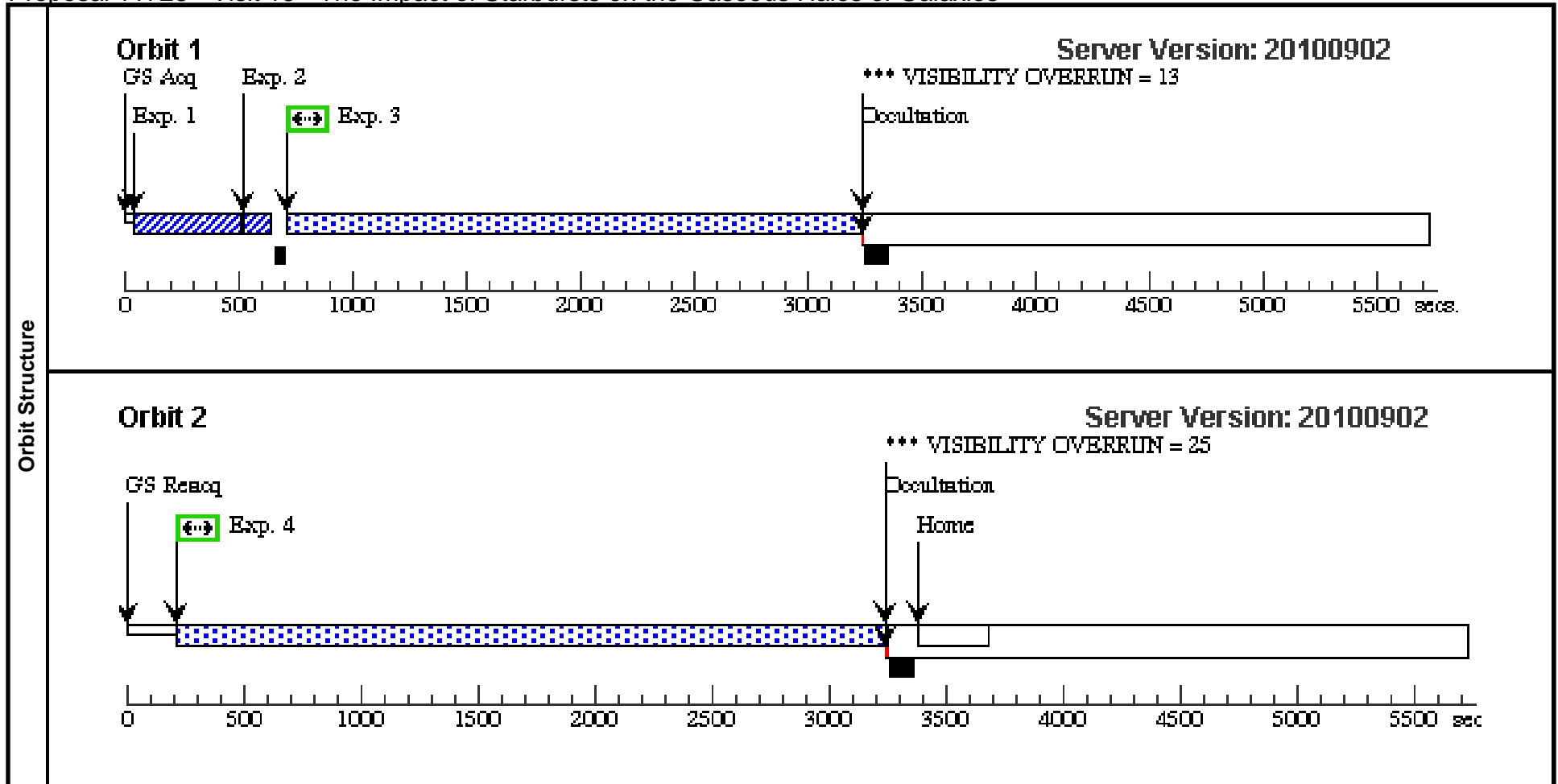
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Acq/Search	(14) SDSSJ100744.54+500746.6	COS/NUV, ACQ/SEARCH, PSA	MIRRORB	SCAN-SIZE=2			18 Secs [==>]	[1]
	2	Acq/Image	(14) SDSSJ100744.54+500746.6	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				18 Secs [==>]	[1]
	3	Science exposure 1	(14) SDSSJ100744.54+500746.6	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=24 97; FP-POS=3; FLASH=YES			2497 Secs [==>]	[1]



Proposal 11728 - Visit 15 - The Impact of Starbursts on the Gaseous Halos of Galaxies

Thu Feb 10 02:02:26 GMT 2011

Visit	Proposal 11728, Visit 15, completed Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none)									
	(Visit 15) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 15) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(15)	SDSSJ161711.42+063833.4	RA: 16 17 11.4200 (244.2975833d) Dec: +06 38 33.50 (6.64264d) Equinox: J2000			V=16.97+/-0.03 FUV=17.9	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Acq/Search	(15) SDSSJ161711.4 2+063833.4	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2			8 Secs [==>]	[1]
	2	Aqq/Image	(15) SDSSJ161711.4 2+063833.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				8 Secs [==>]	[1]
	3	Science exposure 1	(15) SDSSJ161711.4 2+063833.4	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=23 50; FP-POS=1; FLASH=YES			2350 Secs [==>]	[1]
	4	Science exposure 2	(15) SDSSJ161711.4 2+063833.4	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=29 81; FP-POS=3; FLASH=YES			2981 Secs [==>]	[2]



Proposal 11728 - Visit 16 - The Impact of Starbursts on the Gaseous Halos of Galaxies

Thu Feb 10 02:02:27 GMT 2011

Visit	Proposal 11728, Visit 16, completed Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none)									
	(Visit 16) Warning (Orbit Planner): VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(16)	SDSSJ120329.84+480313.6	RA: 12 03 29.8400 (180.8743333d) Dec: +48 03 13.60 (48.05378d) Equinox: J2000		V=16.26+/-0.03 FUV=17.3	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Acq/Search	(16) SDSSJ120329.84+480313.6	COS/NUV, ACQ/SEARCH, PSA	MIRRORB	SCAN-SIZE=2			26 Secs [==>]	[1]
	2	Acq/Image	(16) SDSSJ120329.84+480313.6	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				26 Secs [==>]	[1]
	3	Science Exposure 1	(16) SDSSJ120329.84+480313.6	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=23 94; FP-POS=3; FLASH=YES			2394 Secs [==>]	[1]
Orbit Structure	<p>Orbit 1 Server Version: 20100902</p> <p>The diagram shows a timeline for Orbit 1 from 0 to 5500 seconds. Key events include:</p> <ul style="list-style-type: none"> GS Acq: Ground Station Acquisition at approximately 0 seconds. Exp. 1: Exposure 1, represented by a blue hatched bar from 0 to ~500s. Exp. 2: Exposure 2, represented by a blue hatched bar from ~500s to ~800s. Exp. 3: Exposure 3, represented by a blue dotted bar from ~800s to ~3400s. A green box with a double-headed arrow is placed over this exposure. Occultation: A vertical line at ~3400s with the text "Occultation" and "*** VISIBILITY OVERRUN = 39". Home: A vertical line at ~3500s. <p>A scale at the bottom is marked in 500-second increments from 0 to 5500.</p>									
	<p>Diagram illustrating the Orbit Structure timeline. Key events include GS Acq, Exp. 1, Exp. 2, Exp. 3 (highlighted with a green box), Occultation (marked with a red vertical line and text: Occultation *** VISIBILITY OVERRUN = 39), and Home. The timeline is marked in seconds (0 to 5500).</p>									

Proposal 11728 - Visit 17 - The Impact of Starbursts on the Gaseous Halos of Galaxies

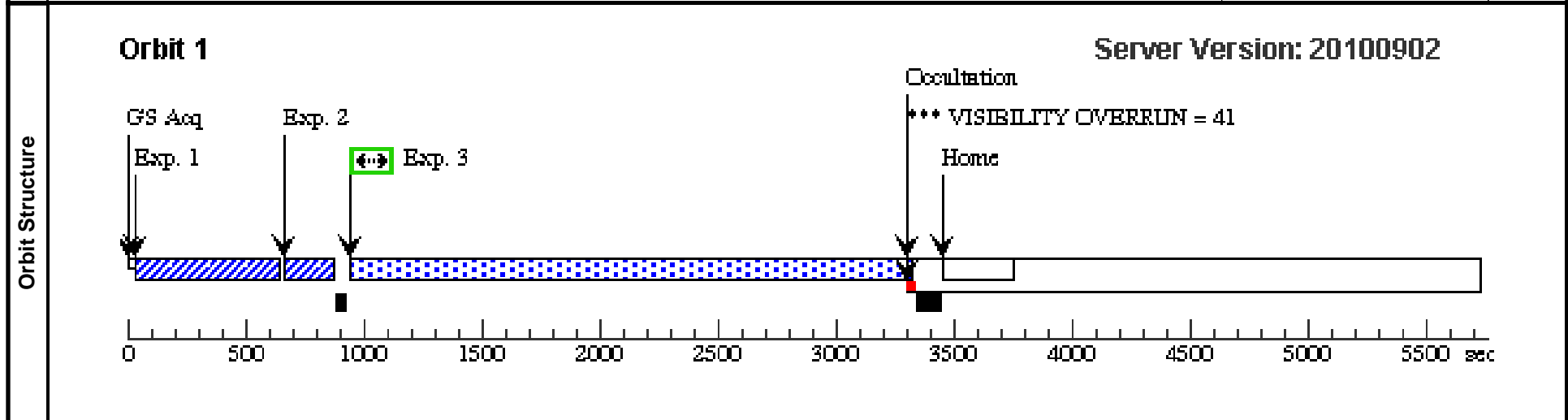
Thu Feb 10 02:02:27 GMT 2011

Visit	Proposal 11728, Visit 17, completed
	Diagnostic Status: Warning
	Scientific Instruments: COS/NUV, COS/FUV
	Special Requirements: (none)

Diagnostics	(Visit 17) Warning (Orbit Planner): VISIBILITY OVERRUN
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(17)	SDSSJ102847.00+39180.5	RA: 10 28 47.0000 (157.1958333d) Dec: +39 18 0.50 (39.30014d) Equinox: J2000		V=17.06+/-0.03 FUV=17.8	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Acq/Search	(17) SDSSJ102847.0 0+391800.5	COS/NUV, ACQ/SEARCH, PSA	MIRRORB	SCAN-SIZE=2			42 Secs [==>]	[1]
	2	Acq/image	(17) SDSSJ102847.0 0+391800.5	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				42 Secs [==>]	[1]
	3	Science Exposure 17	(17) SDSSJ102847.0 0+391800.5	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=22 10; FP-POS=2; FLASH=YES			2210 Secs [==>]	[1]



Proposal 11728 - Visit 18 - The Impact of Starbursts on the Gaseous Halos of Galaxies

Thu Feb 10 02:02:27 GMT 2011

Visit	Proposal 11728, Visit 18, scheduling Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none)
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Diagnostics	(Visit 18) Warning (Orbit Planner): VISIBILITY OVERRUN
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(18)	SDSSJ132144.97+033055.7	RA: 13 21 44.9700 (200.4373750d) Dec: +03 30 55.70 (3.51547d) Equinox: J2000		V=16.32+/-0.03 FUV=17.6	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Acq/Search	(18) SDSSJ132144.97+033055.7	COS/NUV, ACQ/SEARCH, PSA	MIRRORB	SCAN-SIZE=2			35 Secs [==>]	[1]
	2	Acq/Image	(18) SDSSJ132144.97+033055.7	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				35 Secs [==>]	[1]
	3	Science Exposure 1	(18) SDSSJ132144.97+033055.7	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=21 78; FP-POS=2; FLASH=YES			2178 Secs [==>]	[1]

