



## 11692 - The LMC as a QSO Absorption Line System

Cycle: 17, Proposal Category: GO

(Availability Mode: SUPPORTED)

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
<b>Prof. J. Christopher Howk (PI)</b>	<b>University of Notre Dame</b>	<b>jhowk@nd.edu</b>
Dr. Nicolas Lehner (CoI)	University of Notre Dame	nlehner@nd.edu

### 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	(8) HD33133	STIS/CCD STIS/FUV-MAMA	1	16-Mar-2010 21:12:01.0	yes
02	(1) RBS542	COS/FUV	1	16-Mar-2010 21:12:07.0	yes
03	(4) PKS0558-504	COS/FUV	1	16-Mar-2010 21:12:12.0	yes
04	(2) RBS563	COS/FUV	3	16-Mar-2010 21:12:18.0	yes
05	(7) CAL-F	COS/FUV	3	16-Mar-2010 21:12:23.0	yes
06	(3) PKS0552-640	COS/FUV COS/NUV	3	16-Mar-2010 21:12:28.0	yes
07	(3) PKS0552-640	COS/FUV COS/NUV	3	16-Mar-2010 21:12:34.0	yes
08	(5) IRAS-L06229-6434	COS/FUV COS/NUV	3	16-Mar-2010 21:12:39.0	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>
09	(5) IRAS-L06229-6434	COS/FUV COS/NUV	3	16-Mar-2010 21:12:43.0	yes
10	(6) PKS0637-752	COS/FUV COS/NUV	3	16-Mar-2010 21:12:47.0	yes
11	(6) PKS0637-752	COS/FUV COS/NUV	3	16-Mar-2010 21:12:51.0	yes
55	(9) CAL-F-COPY	COS/FUV	3	16-Mar-2010 21:12:56.0	yes
58	(10) IRAS-L06229-6434-COPY	COS/FUV COS/NUV	3	16-Mar-2010 21:13:01.0	yes

33 Total Orbits Used

## **ABSTRACT**

We propose to obtain high resolution, high signal-to-noise observations of QSOs behind the Large Magellanic Clouds. These QSOs are situated beyond the star forming disk of the galaxy, giving us the opportunity to study the distribution of metals and energy in regions lacking significant star formation. In particular, we will derive the metallicities and study the ionization characteristics of LMC gas at impact parameters 3-17 kpc. We will compare our results with high-z QSO absorption line systems.

## **OBSERVING DESCRIPTION**

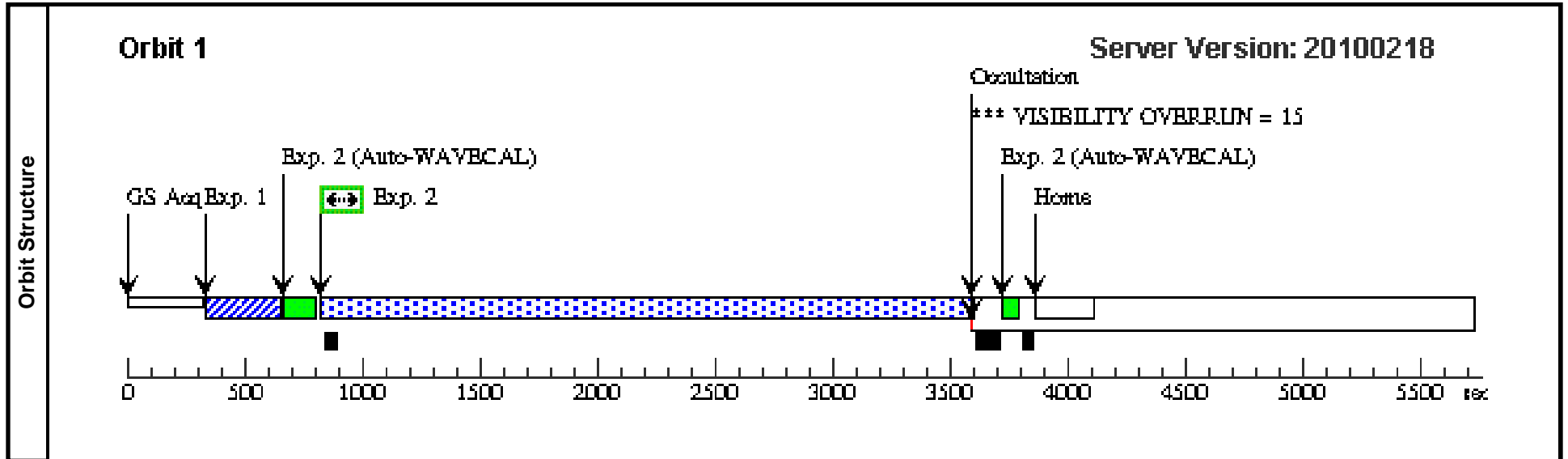
We will obtain high S/N spectroscopy of seven AGNs and the WR star HD 33133 to study gas associated with the LMC. All the AGNs have fluxes drawn from FUSE and/or IUE spectroscopy, ranging from  $5e-15$  to  $3e-14$ , while HD 33133 has a flux  $1e-12$  at 1400 Ang from IUE spectroscopy (and confirmed by FUSE). We will obtain full coverage of the FUV spectral region at  $S/N \sim 20$  for all objects. Such high S/N is required to detect low columns of metals, including from the outflowing wind of the LMC (e.g., Lehner & Howk 2007). We will study absorption from N I, O I, C II, C II\*, S II, Si II, Fe II, Si III, Si IV, C IV, N V, and other ions.

These include diagnostics of collisionally ionized (Si IV, C IV, N V) and photoionized gas (Si III), probes of abundances and ionization fractions (e.g., comparing O I and Si II), and electron density (C II\*). The AGN observations with COS will be done with both the G130M and G160M gratings to get nearly complete coverage of the FUV spectral range. To achieve S/N~20 required 1 to 6 orbits. HD 33133 is too bright for COS, and we will use STIS with the E140M grating and 0.2x0.2 arcsec aperture. In one orbit (~2.6 ksec) we will obtain a full FUV spectrum of the star at S/N~20. All targets have orbital visibilities of 59 minutes. If STIS cannot be repaired, we will ask permission to replace HD 33133 with the high-mass X-ray binary CAL E, which is a factor of 10 fainter, for COS observations.

Proposal 11692 - Visit 01 - The LMC as a QSO Absorption Line System

Wed Mar 17 01:13:05 GMT 2010

<b>Visit</b>	<b>Proposal 11692, Visit 01, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/FUV-MAMA, STIS/CCD Special Requirements: (none) <i>Comments: STIS observations of WR star HD 33133 (GSC 0888900352).</i>																																			
	(Visit 01) Warning (Orbit Planner): VISIBILITY OVERRUN																																			
<b>Diagnostics</b>																																				
<b>Fixed Targets</b>	<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>HD33133</td> <td>RA: 05 03 8.9200 (75.7871667d) Dec: -66 40 57.50 (-66.68264d) Equinox: J2000</td> <td>Redshift: 0</td> <td>V=12.706 F(1400 A) = 1e-12</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(8)	HD33133	RA: 05 03 8.9200 (75.7871667d) Dec: -66 40 57.50 (-66.68264d) Equinox: J2000	Redshift: 0	V=12.706 F(1400 A) = 1e-12	Reference Frame: ICRS	<i>Comments: WN8 star ETC Simulation: STIS77081</i>  <i>This WN8 star has IUE and FUSE fluxes consistent with 1e-14 across the STIS band. No strong variability is seen over a decade of IUE observations.</i>																						
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																														
(8)	HD33133	RA: 05 03 8.9200 (75.7871667d) Dec: -66 40 57.50 (-66.68264d) Equinox: J2000	Redshift: 0	V=12.706 F(1400 A) = 1e-12	Reference Frame: ICRS																															
<b>Exposures</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(8) HD33133</td> <td>STIS/CCD, ACQ, F25ND3</td> <td>MIRROR</td> <td></td> <td></td> <td></td> <td>7 Secs [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td></td> <td>(8) HD33133</td> <td>STIS/FUV-MAMA, ACCUM, 0.2X0.2</td> <td>E140M 1425 A</td> <td></td> <td></td> <td></td> <td>2600 Secs [==&gt;2764.0 Secs ]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1		(8) HD33133	STIS/CCD, ACQ, F25ND3	MIRROR				7 Secs [==>]	[1]	2		(8) HD33133	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A				2600 Secs [==>2764.0 Secs ]	[1]					
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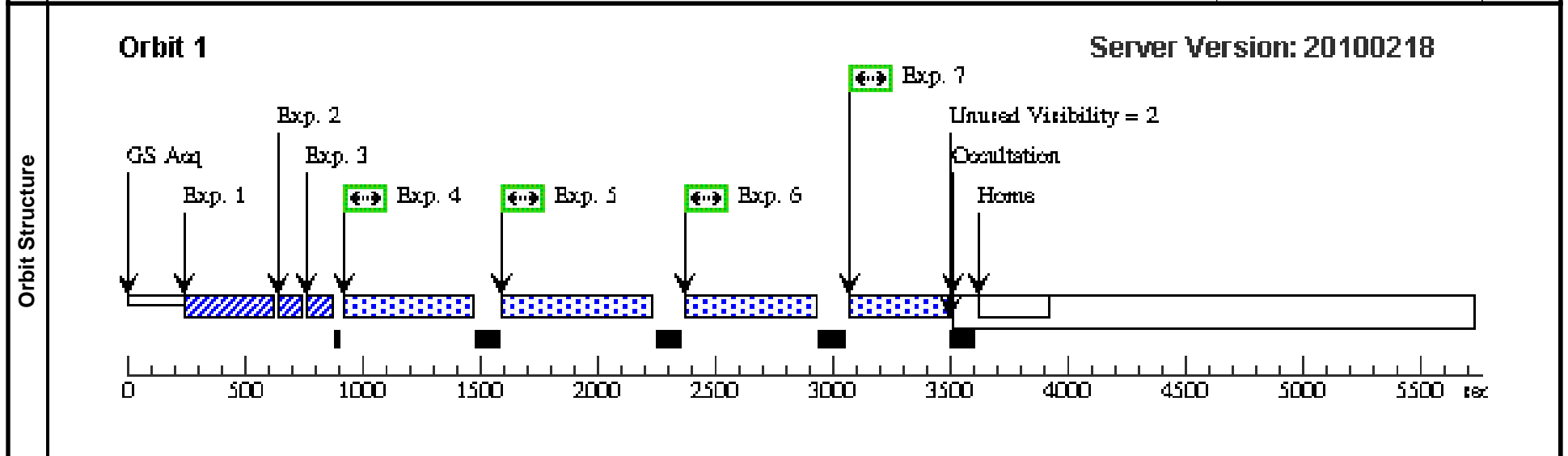
Proposal 11692 - Visit 02 - The LMC as a QSO Absorption Line System

Wed Mar 17 01:13:06 GMT 2010

<b>Visit</b>	<p><b>Proposal 11692, Visit 02, implementation</b></p> <p><b>Diagnostic Status: No Diagnostics</b></p> <p>Scientific Instruments: COS/FUV</p> <p>Special Requirements: (none)</p> <p>Comments: RBS542 -- COS Observations with G130M/G160M.</p> <p>IUE flux 3e-14 @ 1500 Ang in 1994.</p> <p>FUSE fluxes @ 1165 Ang between 3 and 6e-14 between 2007 and 2008.</p> <p>Some variability, but the object represents no safety concerns for FUV detector. See ETC COS75436/COS75437 for the brightest fluxes. The fluxes quoted in our proposal (3e-14) are COS74858/COS74860.</p>																												
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<b>Fixed Targets</b>																													

Proposal 11692 - Visit 02 - The LMC as a QSO Absorption Line System

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	RBS542-sea rch	(1) RBS542	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	CENTER=FLUX-W T; SCAN-SIZE=3		2 Secs [==>]	[1]
	2	RBS542-pea kxd	(1) RBS542	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A			2 Secs [==>]	[1]
	3	RBS542-pea kd	(1) RBS542	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	NUM-POS=3; STEP-SIZE=1.2; CENTER=DEF		2 Secs [==>]	[1]
	4		(1) RBS542	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=50 0		500 Secs [==>497.0 Secs]	[1]
	5		(1) RBS542	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FLASH=YES; BUFFER-TIME=52 3		523 Secs [==>520.0 Secs]	[1]
	6		(1) RBS542	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=36 8		400 Secs [==>397.0 Secs]	[1]
	7		(1) RBS542	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FLASH=YES; BUFFER-TIME=30 0		300 Secs [==>297.0 Secs]	[1]



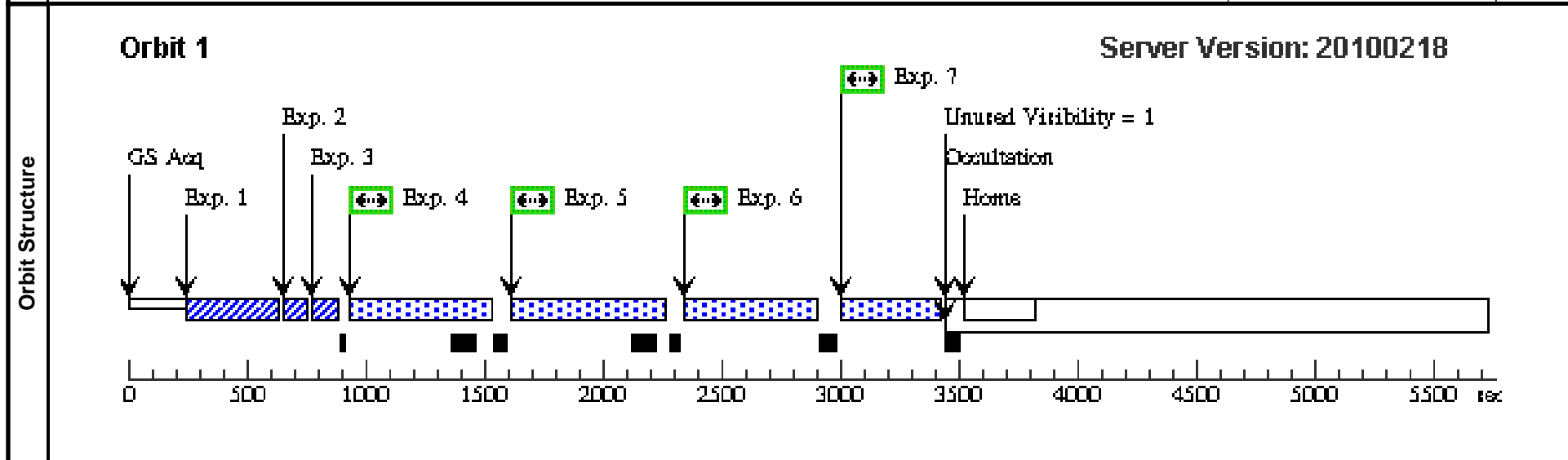
Proposal 11692 - Visit 02 - The LMC as a QSO Absorption Line System

Wed Mar 17 01:13:06 GMT 2010

Visit	<b>Proposal 11692, Visit 03, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: COS/FUV Special Requirements: (none) <i>Comments: PKS0558-504 -- COS Observations with G130M/G160M.</i>					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	PKS0558-504	RA: 05 59 47.3900 (89.9474583d) Dec: -50 26 51.90 (-50.44775d) Equinox: J2000	Redshift: 0.137	V=14.97 F(1550 A) = 2.5e-14	Reference Frame: ICRS
	<i>Comments: Sy1 Galaxy.</i> <i>ETC Simulations: COS74881/COS74884 (G130M/G160M)</i> <i>IUE flux gives 2.5e-14 at 1550 Ang.</i> <i>2 FUSE epochs, 2 IUE epochs, 1 HUT all consistent (15 years diff). Corbin &amp; Smith (2000) show &lt;-0.2 mag variations in optical over 4 epochs.</i> <i>Nonetheless, we have used FUV dispersed light acquisition in case this object brightens significantly.</i> *****UPDATED: <i>ETC simulations for the settings used here are COS.A286891/COS.A286893 and COS.A286895/COS.A286896 for G130M and G160M. The acquisition calculations are COS.A286899.</i> <i>The total count rates are &lt;-2000 for all settings. The BOT identifies the target QSO as an unknown object; there are no safety issues associated with it.</i>					

Proposal 11692 - Visit 03 - The LMC as a QSO Absorption Line System

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	PKS0558-se arch	(4) PKS0558-504	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	CENTER=FLUX-W T; SCAN-SIZE=3		3 Secs [==>]	[1]
	2	PKS0558-pe akxd	(4) PKS0558-504	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A			3 Secs [==>]	[1]
	3	PKS0558-pe akd	(4) PKS0558-504	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	CENTER=FLUX-W T; STEP-SIZE=1.2; NUM-POS=3		3 Secs [==>]	[1]
	4		(4) PKS0558-504	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=40 0		550 Secs [==>]	[1]
	5		(4) PKS0558-504	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FLASH=YES; BUFFER-TIME=40 0		525 Secs [==>]	[1]
	6		(4) PKS0558-504	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=60 0		400 Secs [==>]	[1]
	7		(4) PKS0558-504	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FLASH=YES; BUFFER-TIME=60 0		300 Secs [==>]	[1]



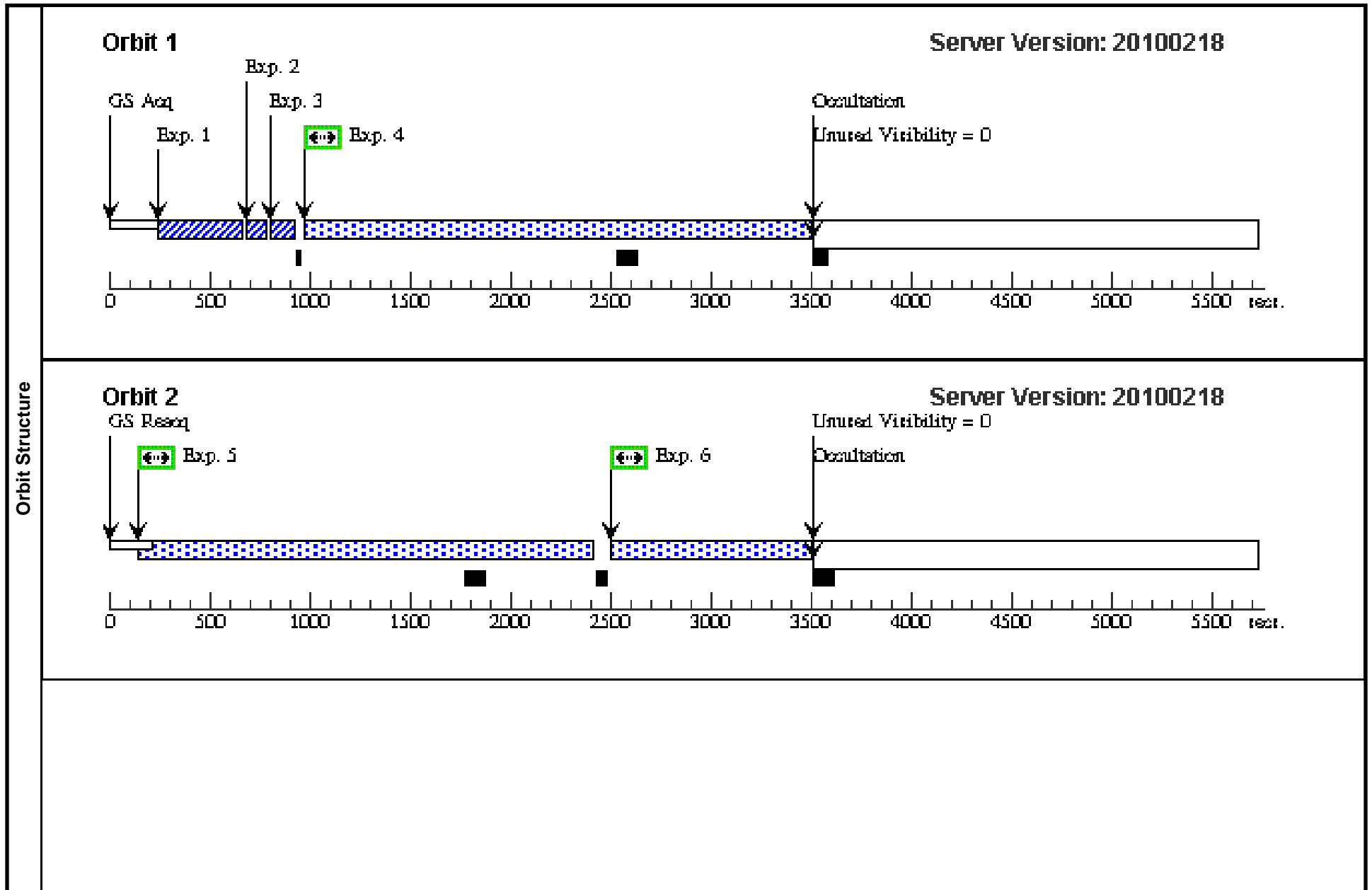
Proposal 11692 - Visit 03 - The LMC as a QSO Absorption Line System

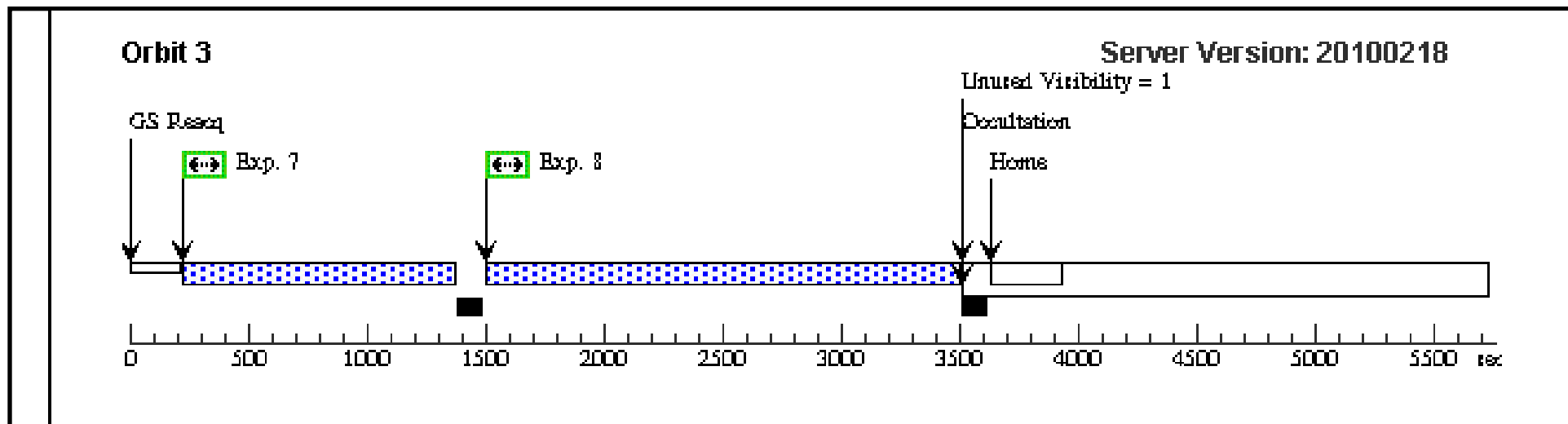
Wed Mar 17 01:13:07 GMT 2010

Visit	<b>Proposal 11692, Visit 04, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: COS/FUV Special Requirements: (none) <i>Comments: RBS563 -- COS Observations with G130M/G160M.</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
		(2)	RBS563	RA: 04 38 29.1700 (69.6215417d)	Redshift: 0.069	V=15.70
		Alt Name1: RXJ0438.5-6148	Dec: -61 47 58.90 (-61.79969d) Equinox: J2000		F(1175 A) = 1e-14	
	<i>Comments: Sy1 Galaxy; FUSE flux.</i>					
	<i>We have used FUV dispersed light acquisition in case this object brightens significantly.</i>					
<i>ETC Simulations: COS74875/COS74877 (G130M/G160M)</i>						
*****UPDATED:						
<i>New ETC simulations are COS.A286900/COS.A286901 and COS.A286902/COS.A286903 for G130M and G160M. Count rates &lt;900 for all observations. Acquisition ETC calculations are COS.A286907.</i>						
<i>**NOTE: The BOT lists one unknown object, which is the target itself.</i>						

Proposal 11692 - Visit 04 - The LMC as a QSO Absorption Line System

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	RBS563-sea rch	(2) RBS563	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	CENTER=FLUX-W T; SCAN-SIZE=3			6 Secs [==>]	[1]
	2	RBS563-pea kxd	(2) RBS563	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				6 Secs [==>]	[1]
	3	RBS563-pea kd	(2) RBS563	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	STEP-SIZE=1.2; NUM-POS=3; CENTER=DEF			6 Secs [==>]	[1]
	4		(2) RBS563	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=15 26; FLASH=YES			2478 Secs [==>]	[1]
	5		(2) RBS563	COS/FUV, TIME-TAG, PSA	G130M 1300 A	BUFFER-TIME=15 26; FLASH=YES			2150 Secs [==>]	[2]
	6		(2) RBS563	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=83 3; FLASH=YES			833 Secs [==>]	[2]
	7		(2) RBS563	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=11 00; FLASH=YES			1100 Secs [==>]	[3]
	8		(2) RBS563	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=18 75; FLASH=YES			1875 Secs [==>]	[3]





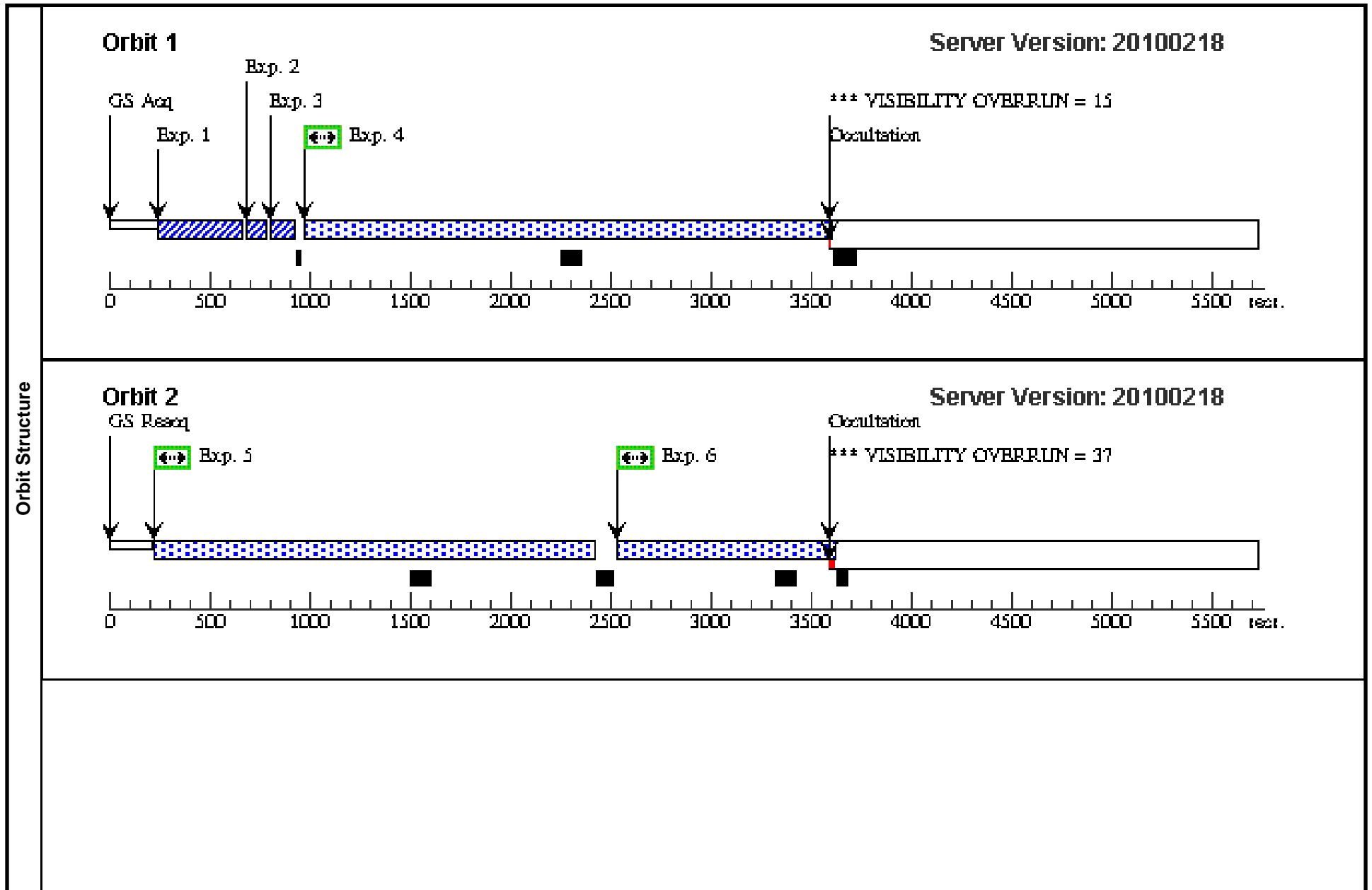
Proposal 11692 - Visit 05 - The LMC as a QSO Absorption Line System

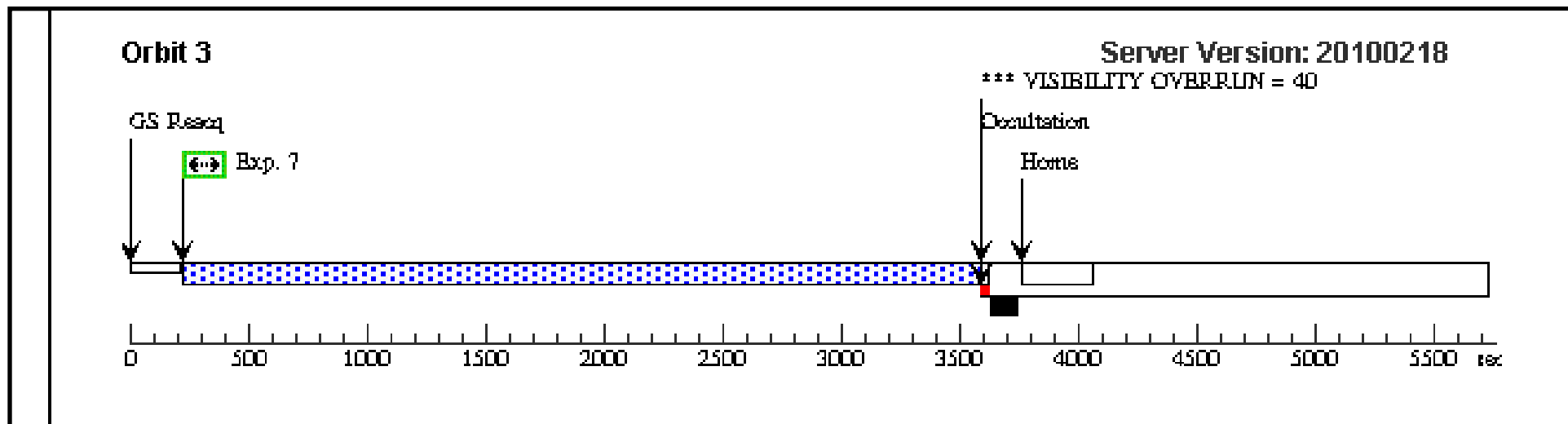
Wed Mar 17 01:13:07 GMT 2010

<b>Visit</b>	<p><b>Proposal 11692, Visit 05, failed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: CAL F -- COS Observations with G130M/G160M.</i></p>																	
	<p><b>Diagnosics</b></p> <p>(Visit 05) Warning (Orbit Planner): VISIBILITY OVERRUN</p> <p>(Visit 05) Warning (Orbit Planner): VISIBILITY OVERRUN</p> <p>(Visit 05) Warning (Orbit Planner): VISIBILITY OVERRUN</p>																	
<b>Fixed Targets</b>	<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>CAL-F</td> <td>RA: 05 03 3.9300 (75.7663750d) Dec: -66 33 45.90 (-66.56275d) Equinox: J2000</td> <td>Redshift: 0.064</td> <td>V=16.0 F(1175 Å) = 1e-14</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Sy 1 Galaxy</i></p> <p><i>ETC Simulations: COS74873/COS74875 (G130M/G160M)</i></p> <p><i>FUSE gives a flux 1e-14 at 1175 Ang (10/2003) and ~6e-15 Ang (07/2007).</i></p> <p><i>This object poses no safety risk for the FUV detector. We use an FUV dispersed light acquisition in case the flux brightens enough to cause difficulties with NUV imaging acquisitions.</i></p>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(7)	CAL-F	RA: 05 03 3.9300 (75.7663750d) Dec: -66 33 45.90 (-66.56275d) Equinox: J2000	Redshift: 0.064	V=16.0 F(1175 Å) = 1e-14	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(7)	CAL-F	RA: 05 03 3.9300 (75.7663750d) Dec: -66 33 45.90 (-66.56275d) Equinox: J2000	Redshift: 0.064	V=16.0 F(1175 Å) = 1e-14	Reference Frame: ICRS													

Proposal 11692 - Visit 05 - The LMC as a QSO Absorption Line System

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	CAL_F-sear ch	(7) CAL-F	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	SCAN-SIZE=3; CENTER=FLUX-W T			6 Secs [==>]	[1]
	2	CAL_F-pea kxd	(7) CAL-F	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				6 Secs [==>]	[1]
	3	CAL_F-pea kd	(7) CAL-F	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	CENTER=DEF; STEP-SIZE=1.2; NUM-POS=3			6 Secs [==>]	[1]
	4		(7) CAL-F	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=12 50; FLASH=YES			2855 Secs [==>2576.0 Secs ]	[1]
	5		(7) CAL-F	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=12 50; FLASH=YES			2150 Secs [==>]	[2]
	6		(7) CAL-F	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=65 0; FLASH=YES			833 Secs [==>925.0 Secs ]	[2]
	7		(7) CAL-F	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=32 70; FLASH=YES			3270 Secs [==>3353.0 Secs ]	[3]

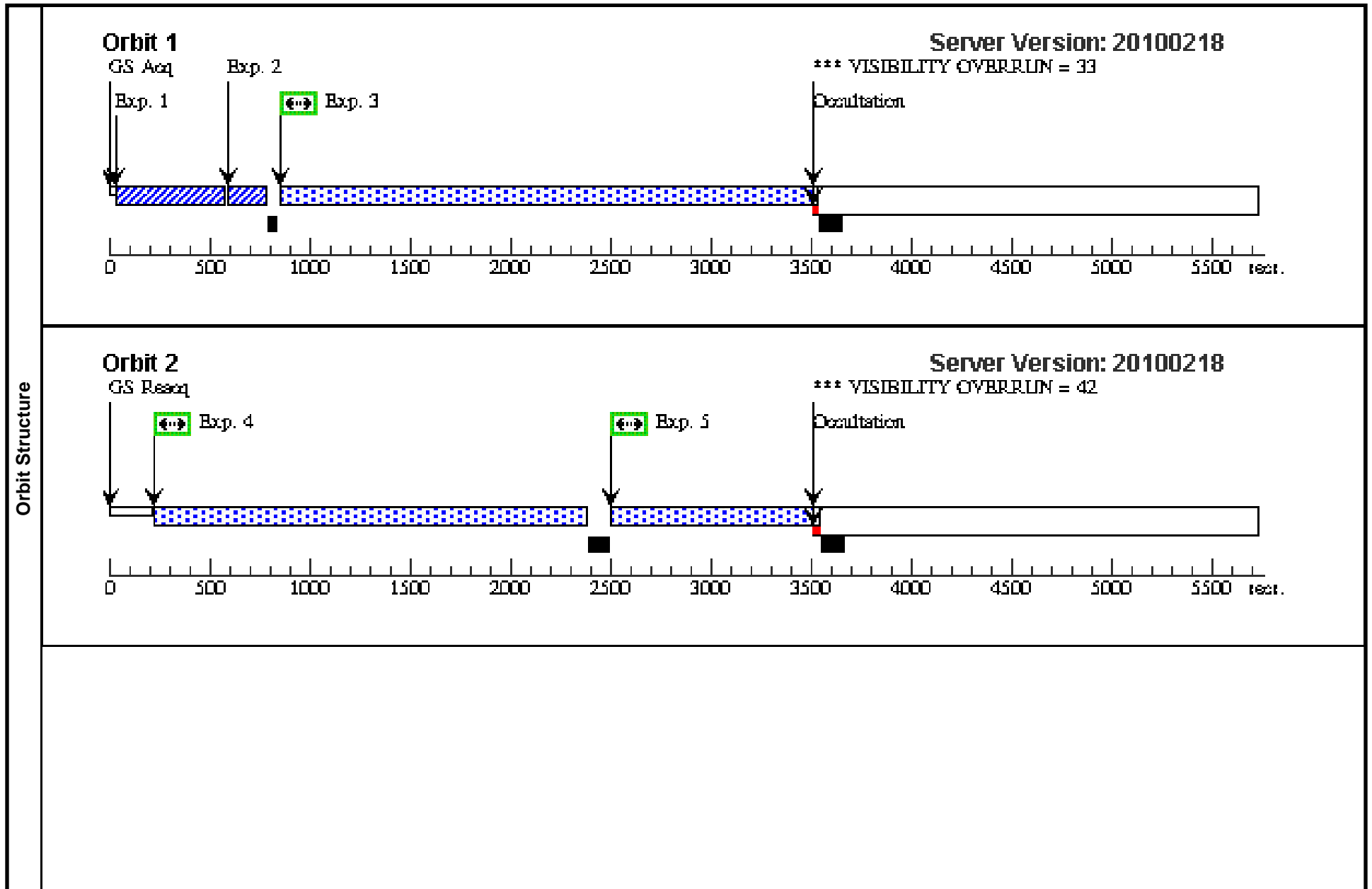


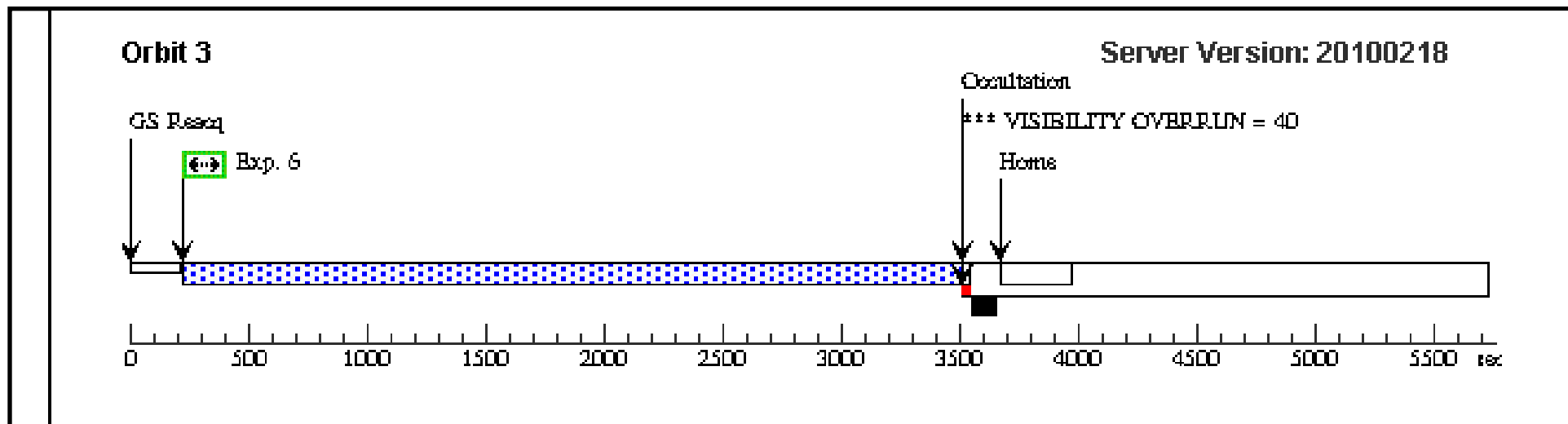


Proposal 11692 - Visit 06 - The LMC as a QSO Absorption Line System

Wed Mar 17 01:13:08 GMT 2010

<b>Visit</b>	<b>Proposal 11692, Visit 06, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none) <i>Comments: PKS0552-640-- COS Observations with G130M/G160M.</i>																																																																										
	<b>Diagnosics</b> (Visit 06) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 06) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 06) Warning (Orbit Planner): VISIBILITY OVERRUN																																																																										
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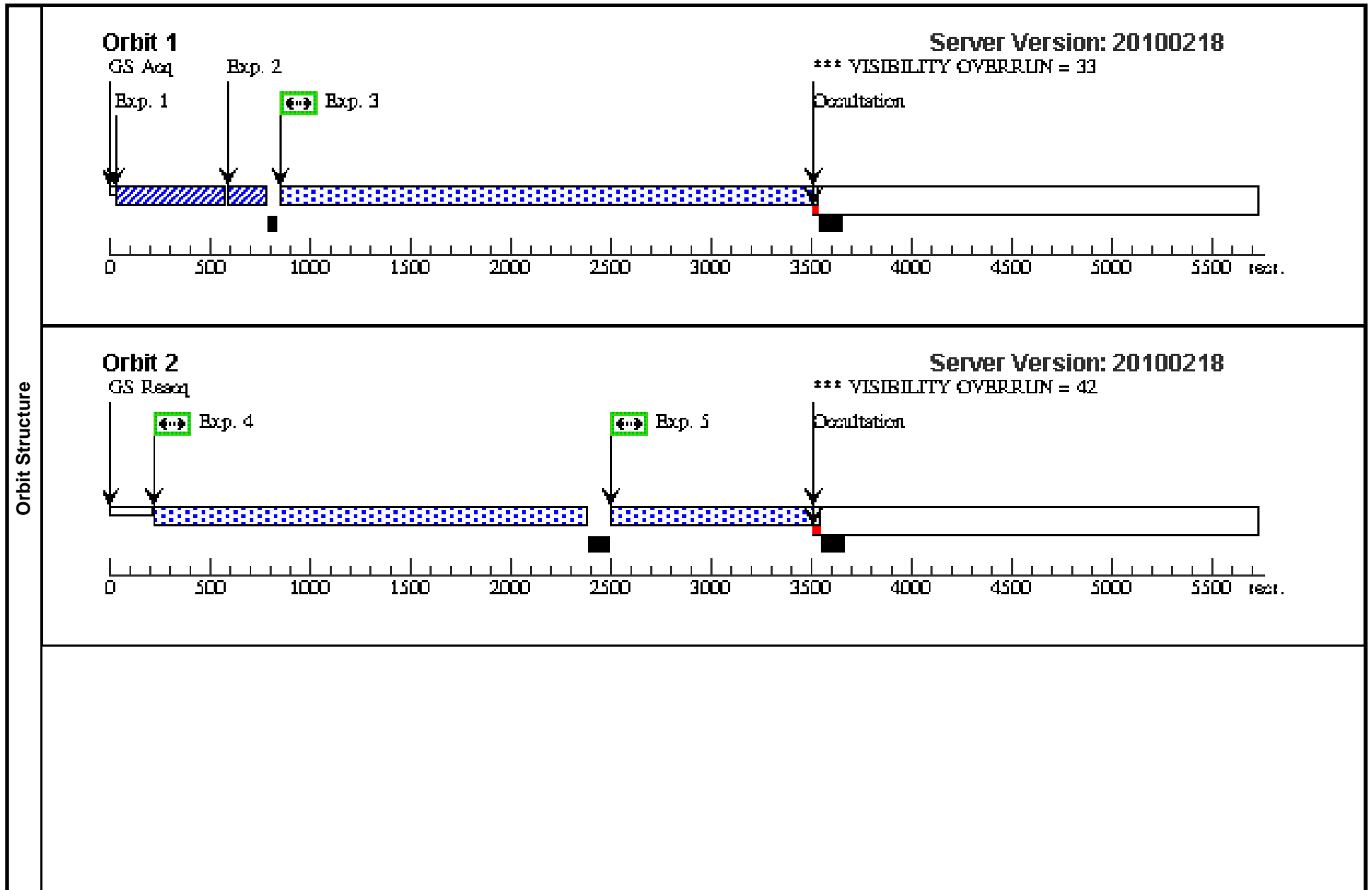


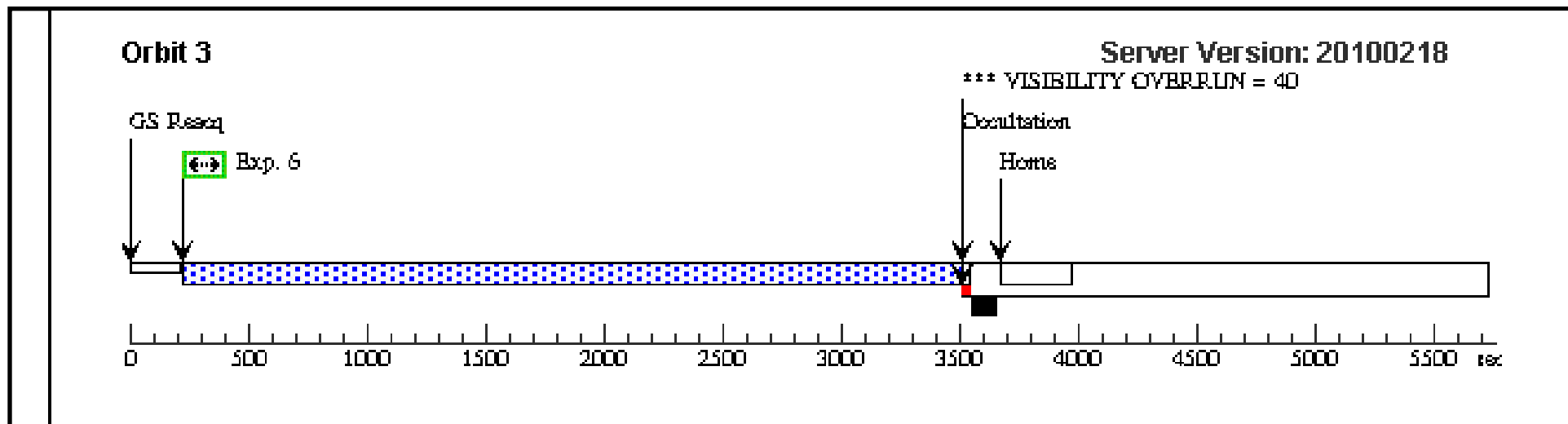


Proposal 11692 - Visit 07 - The LMC as a QSO Absorption Line System

Wed Mar 17 01:13:09 GMT 2010

<b>Visit</b>	<b>Proposal 11692, Visit 07, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none) <i>Comments: PKS0552-640-- COS Observations with G130M/G160M.</i>																																																																										
	<b>Diagnosics</b> (Visit 07) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 07) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 07) Warning (Orbit Planner): VISIBILITY OVERRUN																																																																										
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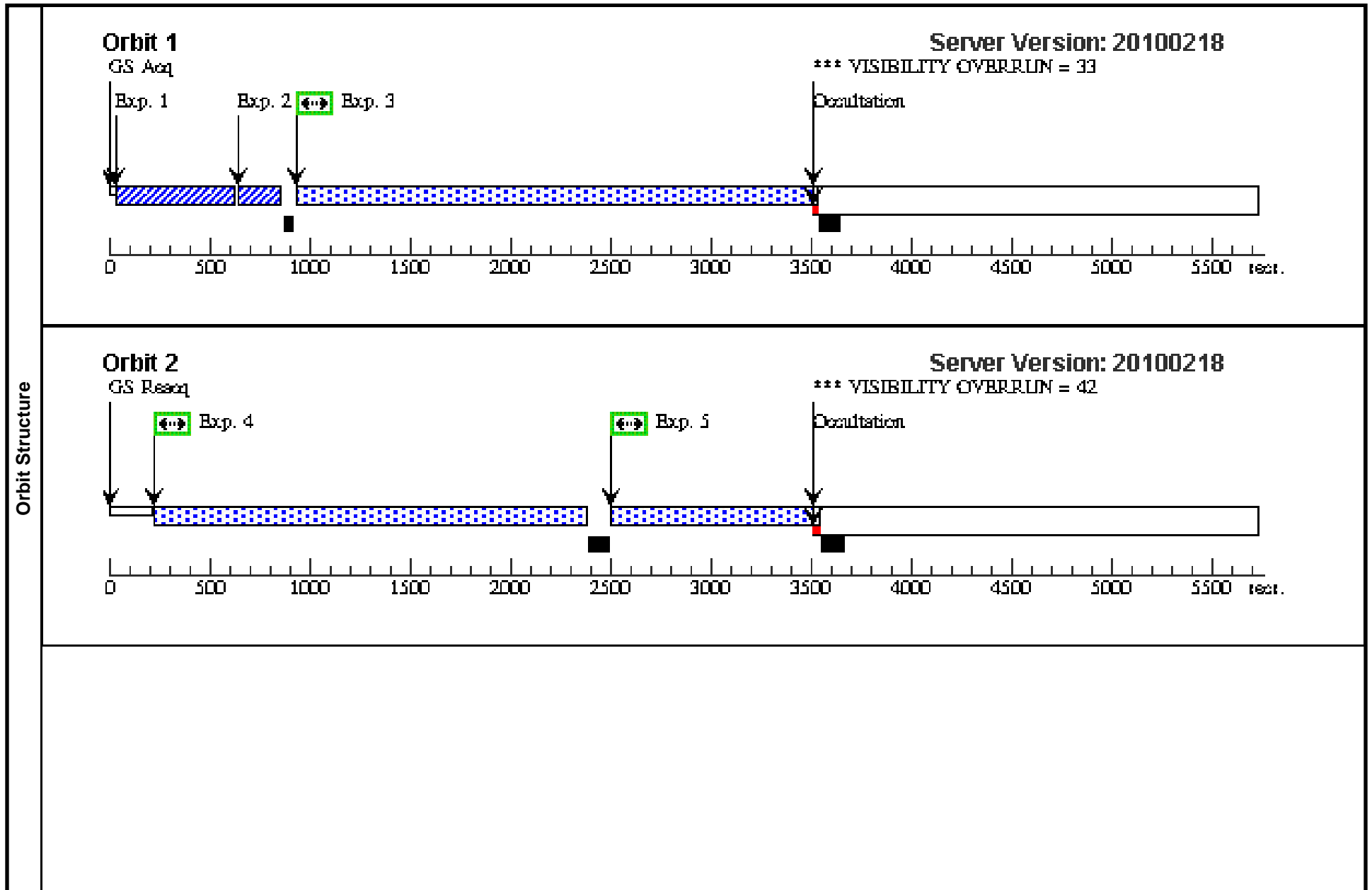


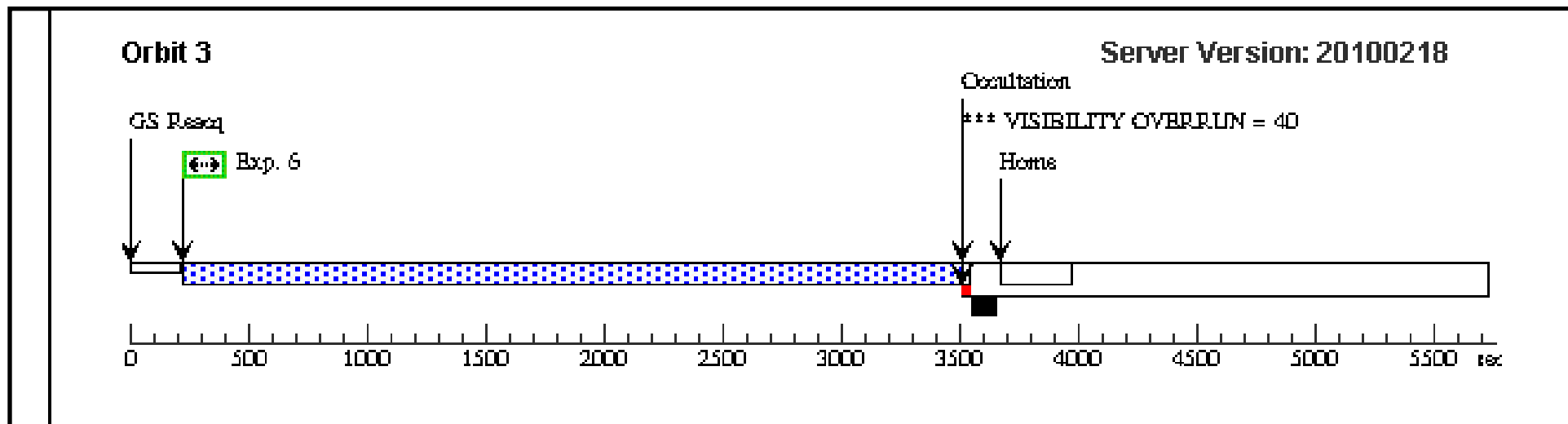


Proposal 11692 - Visit 08 - The LMC as a QSO Absorption Line System

Wed Mar 17 01:13:10 GMT 2010

<b>Visit</b>	<b>Proposal 11692, Visit 08, failed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none) <i>Comments: IRAS-L06229-6434 -- COS Observations with G130M/G160M.</i>																																																																										
	<b>Diagnosics</b> (Visit 08) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 08) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 08) Warning (Orbit Planner): VISIBILITY OVERRUN																																																																										
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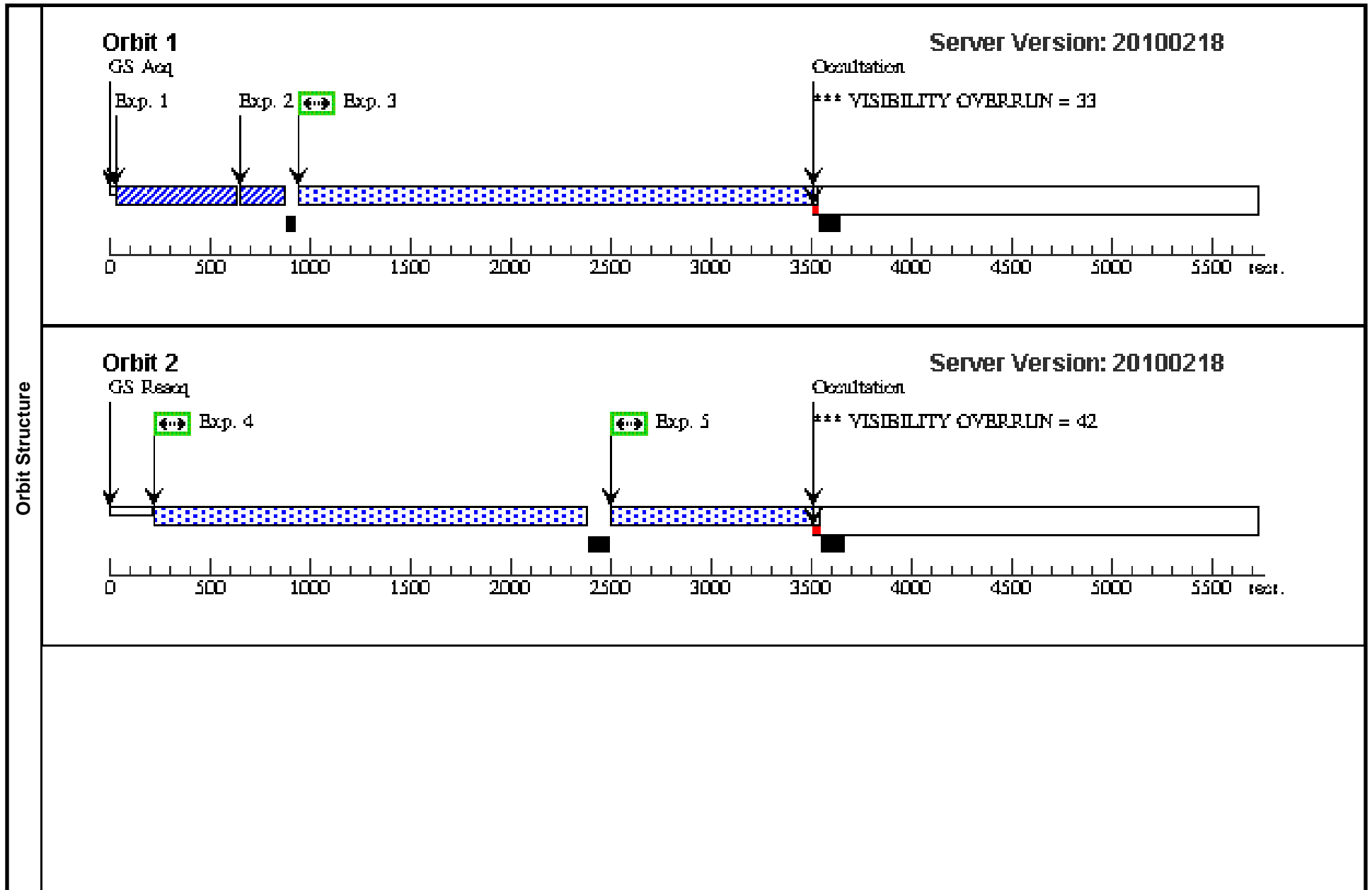


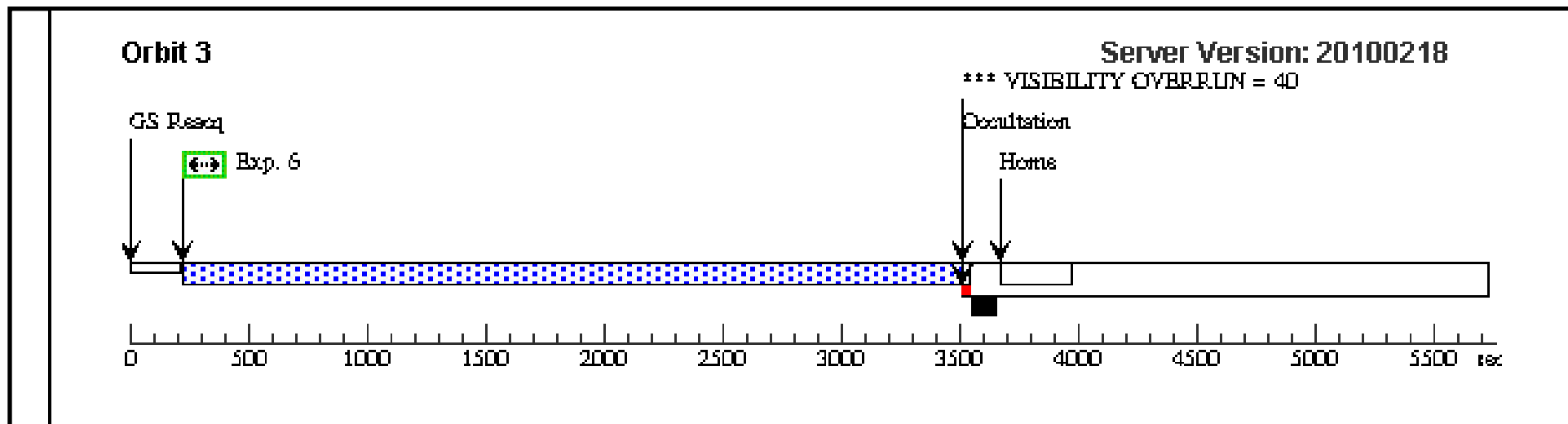


Proposal 11692 - Visit 09 - The LMC as a QSO Absorption Line System

Wed Mar 17 01:13:10 GMT 2010

<b>Visit</b>	<b>Proposal 11692, Visit 09, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none) <i>Comments: IRAS-L06229-6434 -- COS Observations with G130M/G160M.</i>																																																																										
	<b>Diagnosics</b> (Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN																																																																										
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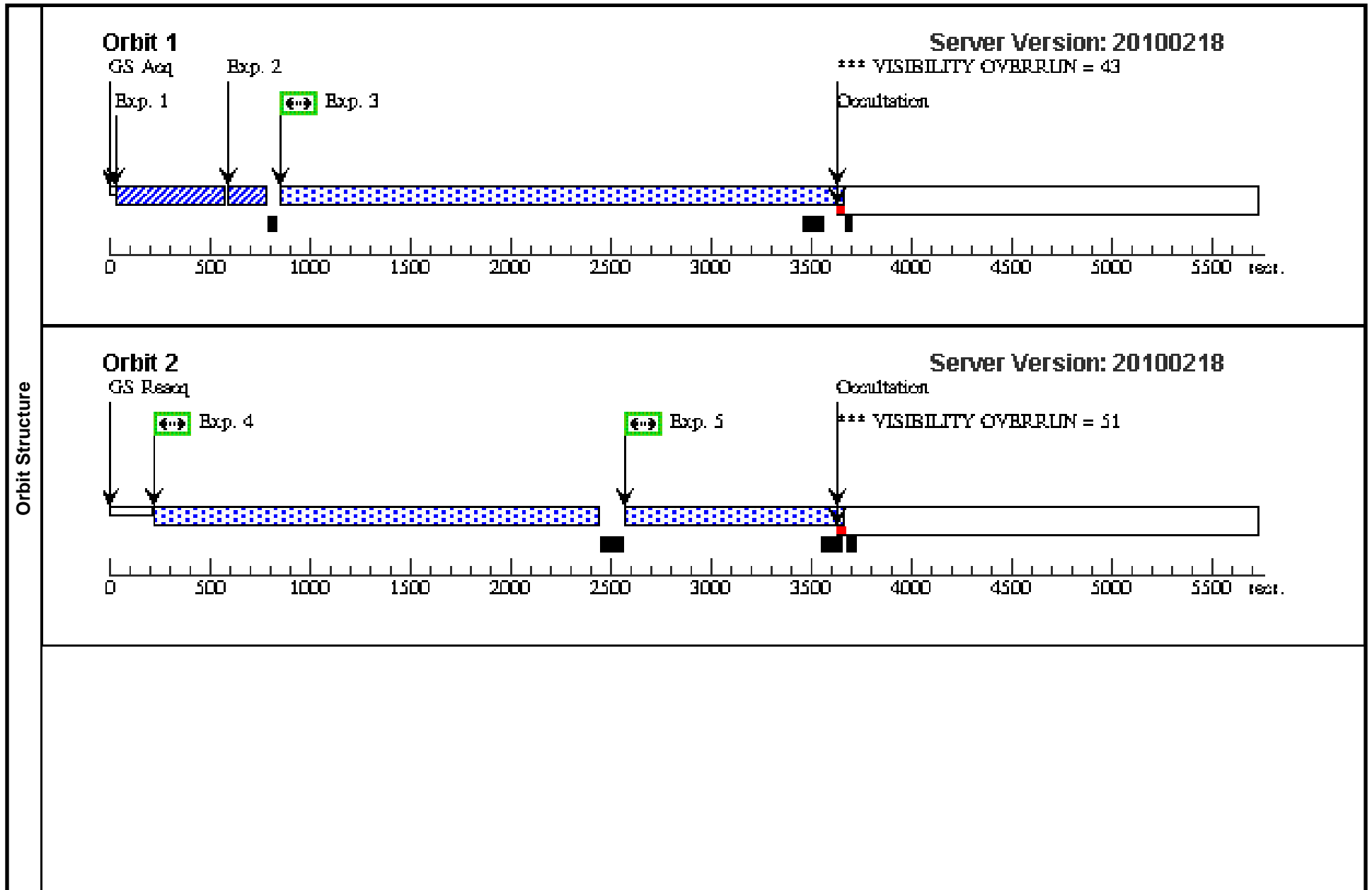


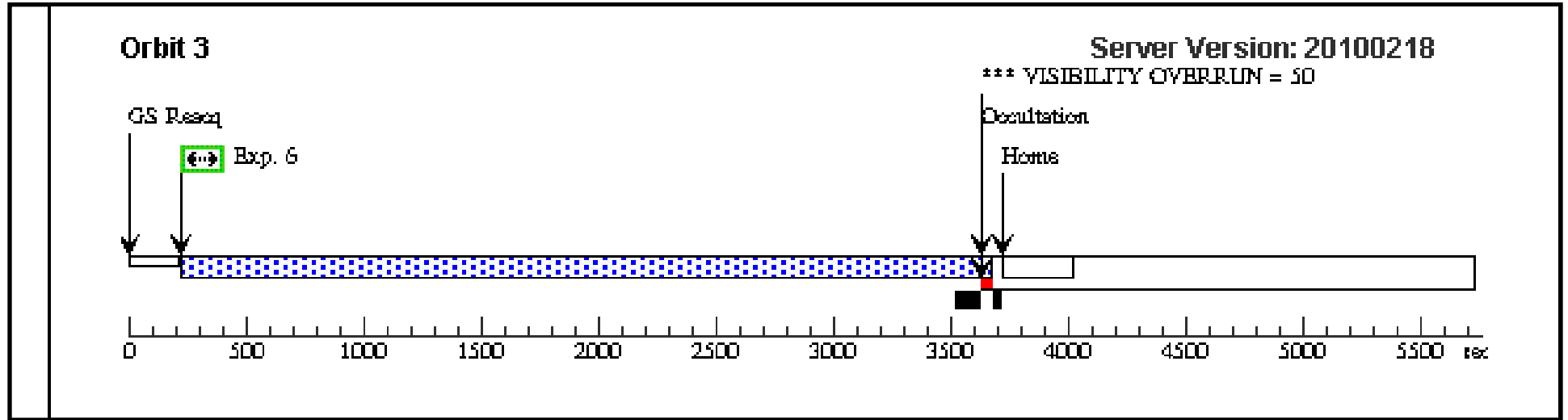


Proposal 11692 - Visit 10 - The LMC as a QSO Absorption Line System

Wed Mar 17 01:13:11 GMT 2010

<b>Visit</b>	<b>Proposal 11692, Visit 10, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none) <i>Comments: PKS0637-752 -- COS Observations with G130M/G160M.</i>																																																																														
	<b>Diagnosics</b> (Visit 10) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 10) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 10) Warning (Orbit Planner): VISIBILITY OVERRUN																																																																														
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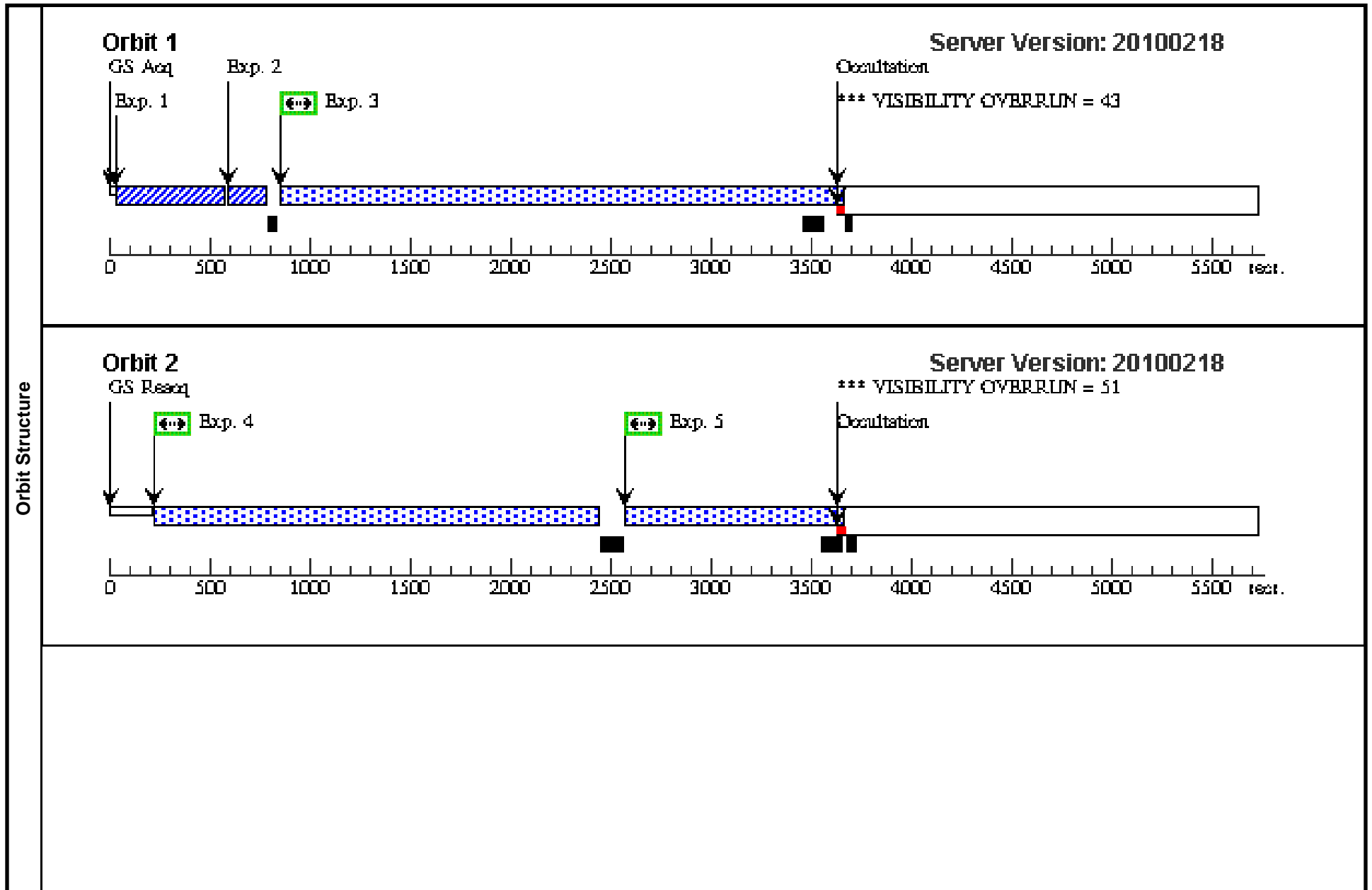


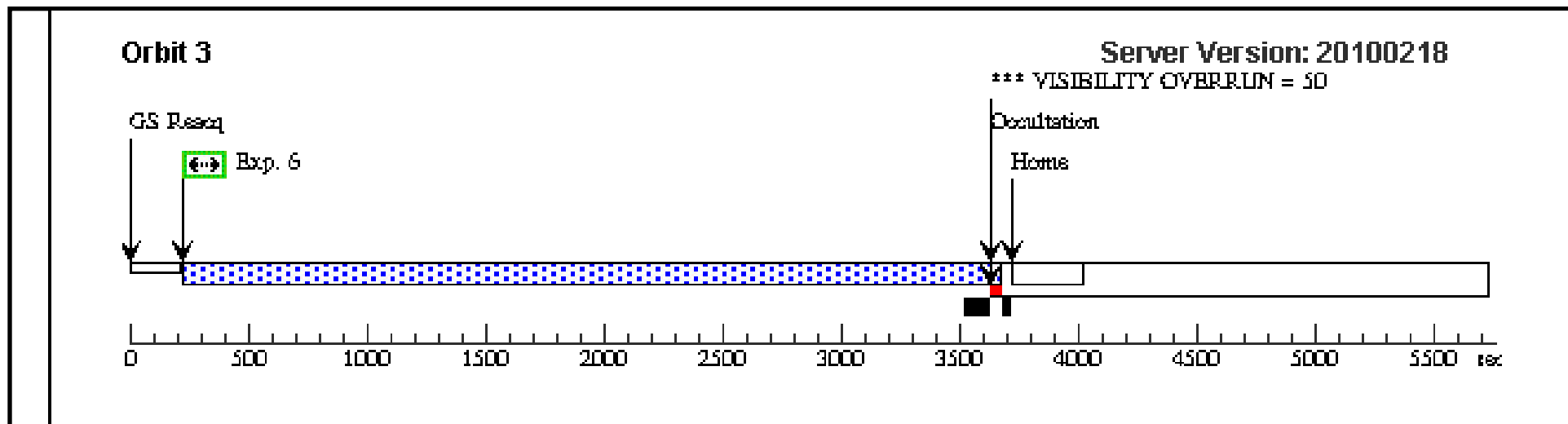


Proposal 11692 - Visit 11 - The LMC as a QSO Absorption Line System

Wed Mar 17 01:13:12 GMT 2010

<b>Visit</b>	<b>Proposal 11692, Visit 11, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none) <i>Comments: PKS0637-752 -- COS Observations with G130M/G160M.</i>																																																																										
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4		(6) PKS0637-752	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=21 50; FLASH=YES			2150 Secs [==>2164.0 Secs ]	[2]																																																																		
5		(6) PKS0637-752	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=83 3; FLASH=YES			833 Secs [==>930.0 Secs ]	[2]																																																																		
6		(6) PKS0637-752	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=32 70; FLASH=YES			3270 Secs [==>3397.0 Secs ]	[3]																																																																		





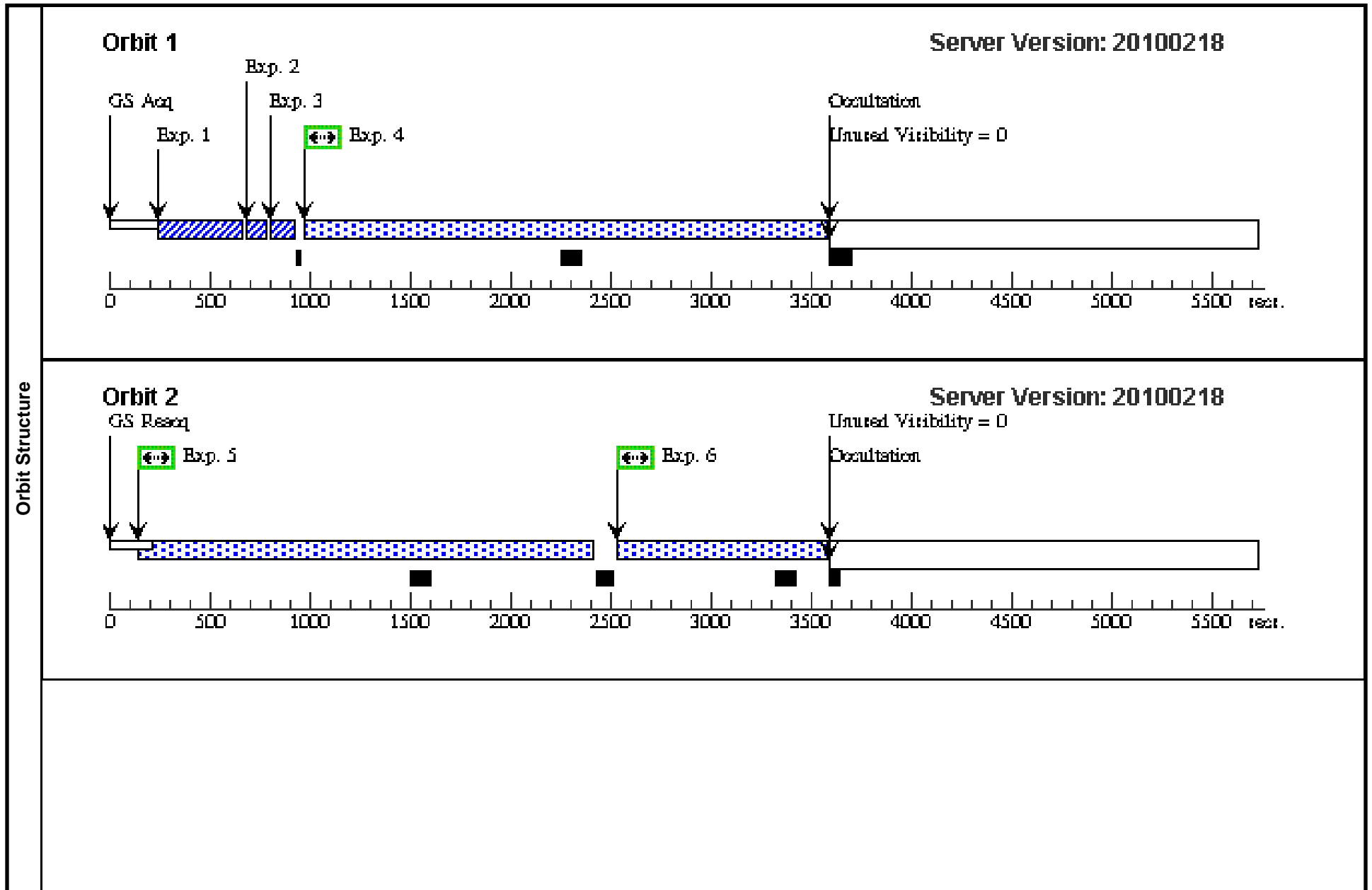
Proposal 11692 - Visit 55 - The LMC as a QSO Absorption Line System

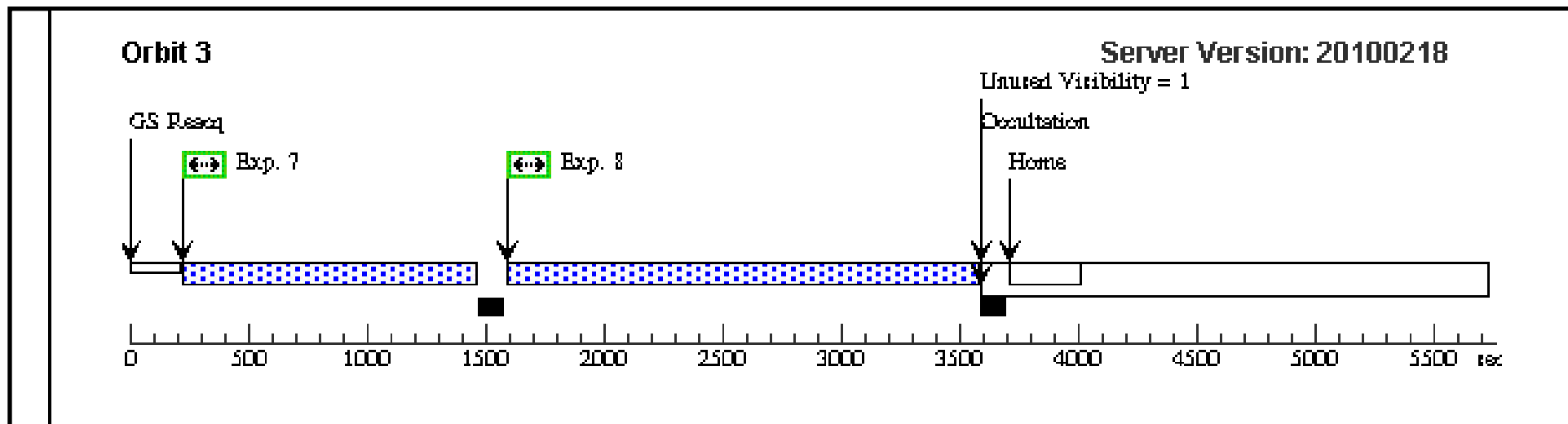
Wed Mar 17 01:13:12 GMT 2010

<b>Visit</b>	<p><b>Proposal 11692, Visit 55, implementation</b></p> <p><b>Diagnostic Status: No Diagnostics</b></p> <p>Scientific Instruments: COS/FUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: CAL F -- COS Observations with G130M/G160M.</i></p>												
	<b>Fixed Targets</b>	<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>(9)</td> <td>CAL-F-COPY</td> <td>RA: 05 03 3.9300 (75.7663750d) Dec: -66 33 45.90 (-66.56275d) Equinox: J2000</td> <td>Redshift: 0.064</td> <td>V=16.0 F(1175 A) = 1e-14</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Sy 1 Galaxy</i></p> <p><i>ETC Simulations: COS74873/COS74875 (G130M/G160M)</i></p> <p><i>FUSE gives a flux 1e-14 at 1175 Ang (10/2003) and ~6e-15 (07/2007).</i></p> <p><i>This object poses no safety risk for the FUV detector. We use an FUV dispersed light acquisition in case the flux brightens enough to cause difficulties with NUV imaging acquisitions.</i></p> <p>*****UPDATED:</p> <p><i>New ETC simulations are COS.A286908/COS.A286909 and COS.A286912/COS.A286913 for G130M and G160M settings. All count rates &lt;~900 for this object. Acquisition ETC simulations are COS.A286914.</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(9)	CAL-F-COPY	RA: 05 03 3.9300 (75.7663750d) Dec: -66 33 45.90 (-66.56275d) Equinox: J2000	Redshift: 0.064	V=16.0 F(1175 A) = 1e-14
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous								
(9)	CAL-F-COPY	RA: 05 03 3.9300 (75.7663750d) Dec: -66 33 45.90 (-66.56275d) Equinox: J2000	Redshift: 0.064	V=16.0 F(1175 A) = 1e-14	Reference Frame: ICRS								

Proposal 11692 - Visit 55 - The LMC as a QSO Absorption Line System

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	CAL_F-search	(9) CAL-F-COPY	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	SCAN-SIZE=3; CENTER=FLUX-W T			6 Secs [==>]	[1]
	2	CAL_F-peakxd	(9) CAL-F-COPY	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				6 Secs [==>]	[1]
	3	CAL_F-peakd	(9) CAL-F-COPY	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	CENTER=DEF; STEP-SIZE=1.2; NUM-POS=3			6 Secs [==>]	[1]
	4		(9) CAL-F-COPY	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=12 50; FLASH=YES			2561 Secs [==>]	[1]
	5		(9) CAL-F-COPY	COS/FUV, TIME-TAG, PSA	G130M 1300 A	BUFFER-TIME=12 50; FLASH=YES			2150 Secs [==>]	[2]
	6		(9) CAL-F-COPY	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=65 0; FLASH=YES			888 Secs [==>]	[2]
	7		(9) CAL-F-COPY	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=12 00; FLASH=YES			1200 Secs [==>1190.0 Secs ]	[3]
	8		(9) CAL-F-COPY	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=18 78; FLASH=YES			1878 Secs [==>1868.0 Secs ]	[3]





Proposal 11692 - Visit 58 - The LMC as a QSO Absorption Line System

Wed Mar 17 01:13:13 GMT 2010

Visit	<b>Proposal 11692, Visit 58, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none) <i>Comments: IRAS-L06229-6434 -- COS Observations with G130M/G160M.</i>									
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
Fixed Targets	(10)	IRAS-L06229-6434-COPY	RA: 06 23 7.6800 (95.7820000d) Dec: -64 36 20.70 (-64.60575d) Equinox: J2000	Redshift: 0.129	V=14.8 F(1145 A) = 5e-15	Reference Frame: ICRS				
	<i>Comments: Sy1 Galaxy; FUSE flux. ETC Simulations: COS74915/COS74918 (G130M/G160M) FUSE fluxes are 5e-15 at 1150,1180 Ang taken in 2007. *****UPDATED: Spectroscopic ETC simulations are COS.A286918/COS.A286919 and COS.A286920/COS.A286921. Count rates are all &lt;900. Imaging acquisition ETC is COS.A286916. This object is quite faint and represents no danger to the instrument, even if it brightens by a magnitude.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	IL06229-acq -image	(10) IRAS-L06229-6 434-COPY	COS/NUV, ACQ/SEARCH, PSA	MIRRORB	CENTER=FLUX-W T; SCAN-SIZE=2			38 Secs [==>]	[1]
	2	IL06229-acq -image	(10) IRAS-L06229-6 434-COPY	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				38 Secs [==>]	[1]
	3		(10) IRAS-L06229-6 434-COPY	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 80; FLASH=YES			2429 Secs [==>2411 Secs ]	[1]
	4		(10) IRAS-L06229-6 434-COPY	COS/FUV, TIME-TAG, PSA	G130M 1300 A	BUFFER-TIME=21 03; FLASH=YES			2103 Secs [==>]	[2]
	5		(10) IRAS-L06229-6 434-COPY	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=83 3; FLASH=YES			833 Secs [==>]	[2]
	6		(10) IRAS-L06229-6 434-COPY	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=12 00; FLASH=YES			1200 Secs [==>]	[3]
	7		(10) IRAS-L06229-6 434-COPY	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=17 76; FLASH=YES			1776 Secs [==>]	[3]

