



11658 - Probing the Outer Regions of M31 with QSO Absorption Lines

Cycle: 17, 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) Q0018+3412 ANY	ACS/WFC COS/FUV COS/NUV	4	08-Sep-2010 21:14:27.0	yes
02	(2) Q0024+3439 ANY	ACS/WFC COS/NUV	2	08-Sep-2010 21:14:43.0	yes
03	(3) Q0030+3700 ANY	ACS/WFC COS/FUV COS/NUV	3	08-Sep-2010 21:14:56.0	yes
04	(4) Q0031+3727 ANY	ACS/WFC COS/FUV COS/NUV	3	08-Sep-2010 21:15:12.0	yes

Proposal 11658 (STScI Edit Number: 1, Created: Wednesday, September 8, 2010 8:17:26 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>
05	(5) Q0032+3946 ANY	ACS/WFC COS/NUV	4	08-Sep-2010 21:15:29.0	yes
06	(6) Q0037+3908 ANY	ACS/WFC COS/NUV	4	08-Sep-2010 21:15:45.0	yes
07	(7) Q0040+3915 ANY	ACS/WFC COS/FUV COS/NUV	5	08-Sep-2010 21:16:07.0	yes
71	(7) Q0040+3915 ANY	ACS/WFC COS/FUV COS/NUV	2	08-Sep-2010 21:16:21.0	yes
08	(8) Q0043+4016 ANY	ACS/WFC COS/FUV COS/NUV	5	08-Sep-2010 21:16:40.0	yes
09	(9) Q0043+4234 ANY	ACS/WFC COS/FUV COS/NUV	4	08-Sep-2010 21:16:58.0	yes
10	(10) Q0046+4220 ANY	ACS/WFC COS/FUV COS/NUV	3	08-Sep-2010 21:17:11.0	yes
14	(4) Q0031+3727 ANY	ACS/WFC COS/FUV COS/NUV	2	08-Sep-2010 21:17:20.0	yes

41 Total Orbits Used

ABSTRACT

We propose HST-COS spectroscopy of 10 quasars behind M31. Absorption lines due to MgII, FeII, CIV, and a variety of other lines will be searched for and measured. Six quasars lie between 1 and 4.2 Holmberg radii near the major axis on the southwest side, where confusion with Milky Way gas is minimized. Two lie even farther out on the southwest side of the major axis. One lies within 1 Holmberg radius. Two of the 10 pass through M31's high velocity clouds seen in a detailed 21 cm emission map. Exposure time estimates were based on SDSS magnitudes and available GALEX

magnitudes. Thus, using the most well-studied external spiral galaxy in the sky, our observations will permit us to check, better than ever before, the standard picture that quasar metal-line absorption systems such as MgII and CIV arise in an extended gaseous halo/disk of a galaxy well beyond its observable optical radius. The observations will yield insights into the nature of the gas and its connection to the very extended stellar components of M31 that have recently been studied. Notably the observations have the potential of extending M31's rotation curve to very large galactocentric distances, thereby placing new constraints on M31's dark matter halo.

Finally, we also request that the coordinated parallel orbits be allocated to this program so that we may image the resolved stellar content of M31's halo and outer disk.

OBSERVING DESCRIPTION

We are obtaining COS G230L spectra of 10 quasars with sightlines that pass through the outer regions of M31. Seven of these will also be observed with COS G140L. These spectra will be used to study metal absorption lines, specifically MgII and CIV, in the halo, disk, and high velocity clouds of M31. Coordinated parallel ACS/WFC observations with F814W and F606W are also being obtained to study the stellar populations in the halo, disk, and HVCs of M31.

The observations will yield ~ 4 sigma detections of MgII 2796 lines with $REW = 0.3 \text{ \AA}$, and 3 sigma or 4 sigma detections of the CIV 1548 lines at $REW = 0.15 \text{ \AA}$. A minimum of 3 exposures per grating are included. The coordinated parallels include approximately two-thirds of the exposure time with F814W and one-third with F606W.

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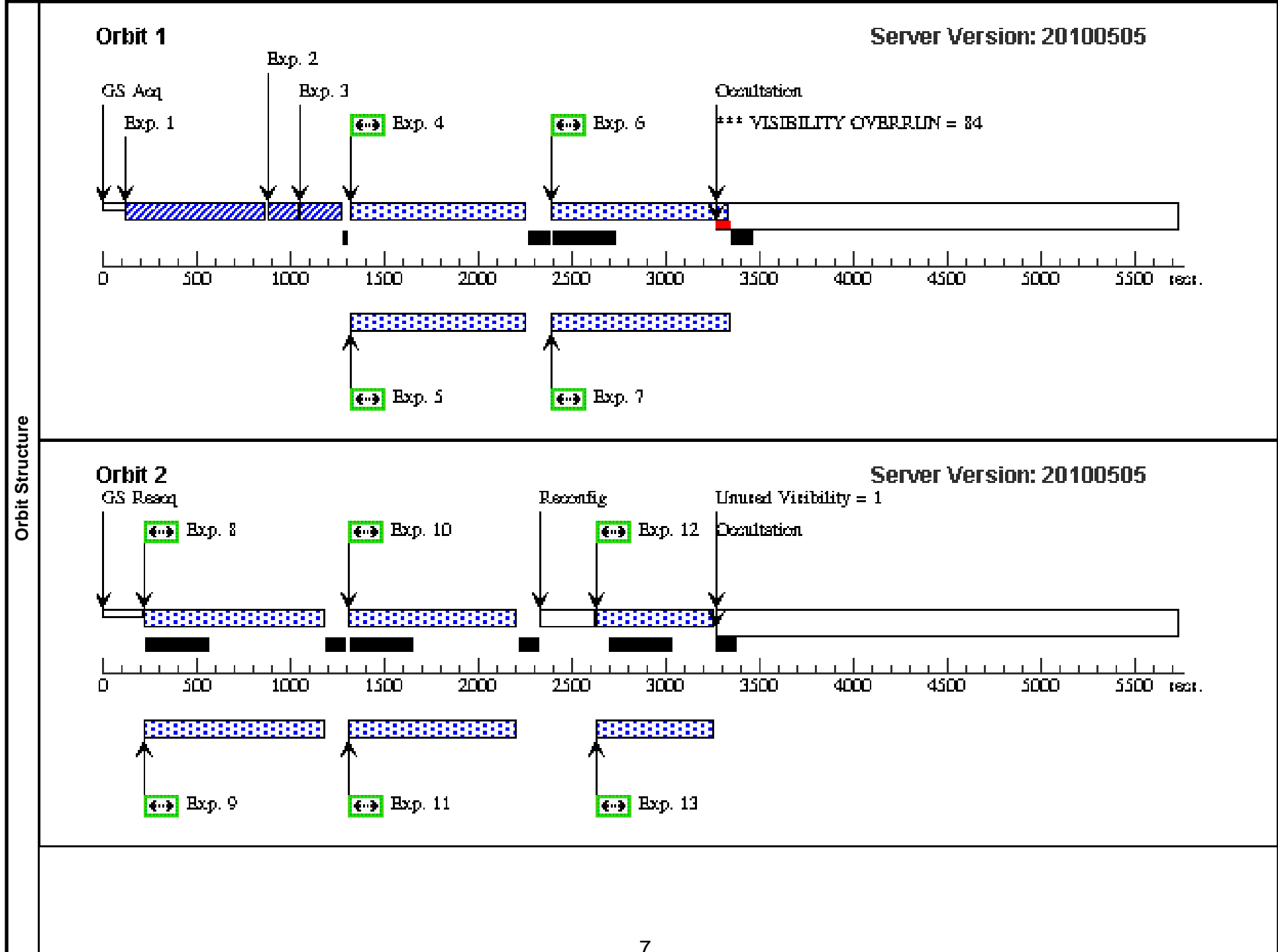
Visit	<p>Proposal 11658, Visit 01, completed Thu Sep 09 01:17:27 GMT 2010</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC, COS/NUV, COS/FUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: Any orientation is acceptable for the parallel observations, but the orientation must remain the same for all exposures in this Visit.</i></p>												
	Diagnostics	<p>(Visit 01) Warning (Orbit Planner): VISIBILITY OVERRUN</p> <p>(Visit 01) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS</p> <p>(Visit 01) Warning (Orbit Planner): VISIBILITY OVERRUN</p> <p>(Visit 01) Warning (Orbit Planner): VISIBILITY OVERRUN</p> <p>(Visit 01) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS</p> <p>(Visit 01) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS</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>Q0018+3412</td> <td> RA: 00 18 47.4485 (4.6977021d) Dec: +34 12 9.58 (34.20266d) Equinox: J2000 </td> <td>Redshift: 0.45</td> <td> V=17.51+/-0.05 u = 17.67, FUV =18.69, NUV=18.34 </td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	Q0018+3412	RA: 00 18 47.4485 (4.6977021d) Dec: +34 12 9.58 (34.20266d) Equinox: J2000	Redshift: 0.45	V=17.51+/-0.05 u = 17.67, FUV =18.69, NUV=18.34	Reference Frame: ICRS
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(1)	Q0018+3412	RA: 00 18 47.4485 (4.6977021d) Dec: +34 12 9.58 (34.20266d) Equinox: J2000	Redshift: 0.45	V=17.51+/-0.05 u = 17.67, FUV =18.69, NUV=18.34	Reference Frame: ICRS								

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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	0018_acq_s earch	(1) Q0018+3412	COS/FUV, ACQ/SEARCH, PSA	G140L 1105 A	SCAN-SIZE=3; STEP-SIZE=1.767		28 Secs [==>]	[1]
	2	0018_acq_p eakxd	(1) Q0018+3412	COS/FUV, ACQ/PEAKXD, PSA	G140L 1105 A			28 Secs [==>]	[1]
	3	0018_acq_p eakd	(1) Q0018+3412	COS/FUV, ACQ/PEAKD, PSA	G140L 1105 A	CENTER=DEF; NUM-POS=3; STEP-SIZE=1.2		28 Secs [==>]	[1]
	4	0018_G140 L	(1) Q0018+3412	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=85 0; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 4-5	850 Secs [==>878.0 Secs]	[1]
	5	0018_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 4-5	500 Secs [==>726.0 Secs]	[1]
	6	0018_G140 L	(1) Q0018+3412	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=84 8; FLASH=YES; FP-POS=4	Prime + Parallel Gro up 6-7	870 Secs [==>890.0 Secs]	[1]
	7	0018_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 6-7	500 Secs [==>825.0 Secs]	[1]
	8	0018_G140 L	(1) Q0018+3412	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=85 0; FLASH=YES; FP-POS=1	Prime + Parallel Gro up 8-9	850 Secs [==>839.0 Secs]	[2]
	9	0018_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 8-9	800 Secs [==>833.0 Secs]	[2]
	10	0018_G140 L	(1) Q0018+3412	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=85 0; FLASH=YES; FP-POS=2	Prime + Parallel Gro up 10-11	850 Secs [==>839.0 Secs]	[2]
	11	0018_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 10-11	800 Secs [==>766.0 Secs]	[2]
	12	0018_G230 L	(1) Q0018+3412	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=30 0; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 12-13	300 Secs [==>289.0 Secs]	[2]
	13	0018_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Gro up 12-13	500 Secs [==>440.0 Secs]	[2]
	14	0018_G230 L	(1) Q0018+3412	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=90 0; FLASH=YES; FP-POS=2	Prime + Parallel Gro up 14-15	900 Secs [==>896.0 Secs]	[3]
	15	0018_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Gro up 14-15	500 Secs [==>859.0 Secs]	[3]

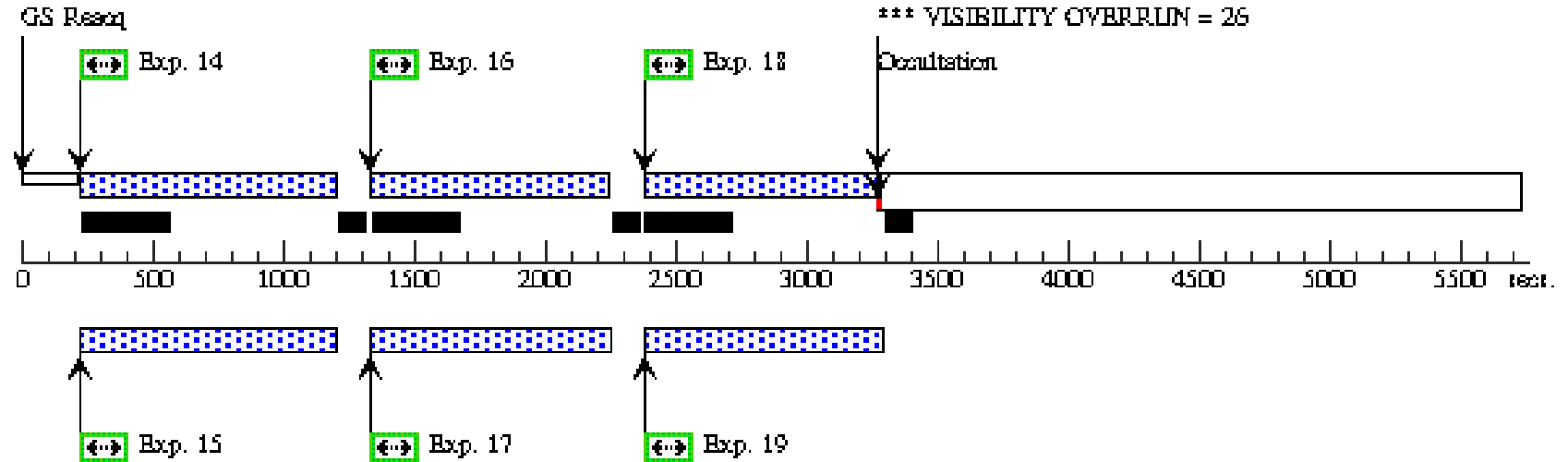
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16	0018_G230 L	(1) Q0018+3412	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=90 0; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 16-17	900 Secs <i>[==>896.0 Secs]</i>	[3]
17	0018_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Gro up 16-17	500 Secs <i>[==>792.0 Secs]</i>	[3]
18	0018_G230 L	(1) Q0018+3412	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=89 0; FLASH=YES; FP-POS=4	Prime + Parallel Gro up 18-19	890 Secs <i>[==>886.0 Secs]</i>	[3]
19	0018_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Gro up 18-19	500 Secs <i>[==>782.0 Secs]</i>	[3]
20	0018_G230 L	(1) Q0018+3412	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=90 0; FLASH=YES; FP-POS=1	Prime + Parallel Gro up 20-21	900 Secs <i>[==>896.0 Secs]</i>	[4]
21	0018_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 20-21	500 Secs <i>[==>804.0 Secs]</i>	[4]
22	0018_G230 L	(1) Q0018+3412	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=90 0; FLASH=YES; FP-POS=2	Prime + Parallel Gro up 22-23	900 Secs <i>[==>896.0 Secs]</i>	[4]
23	0018_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 22-23	500 Secs <i>[==>792.0 Secs]</i>	[4]
24	0018_G230 L	(1) Q0018+3412	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=89 0; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 24-25	890 Secs <i>[==>886.0 Secs]</i>	[4]
25	0018_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 24-25	500 Secs <i>[==>782.0 Secs]</i>	[4]



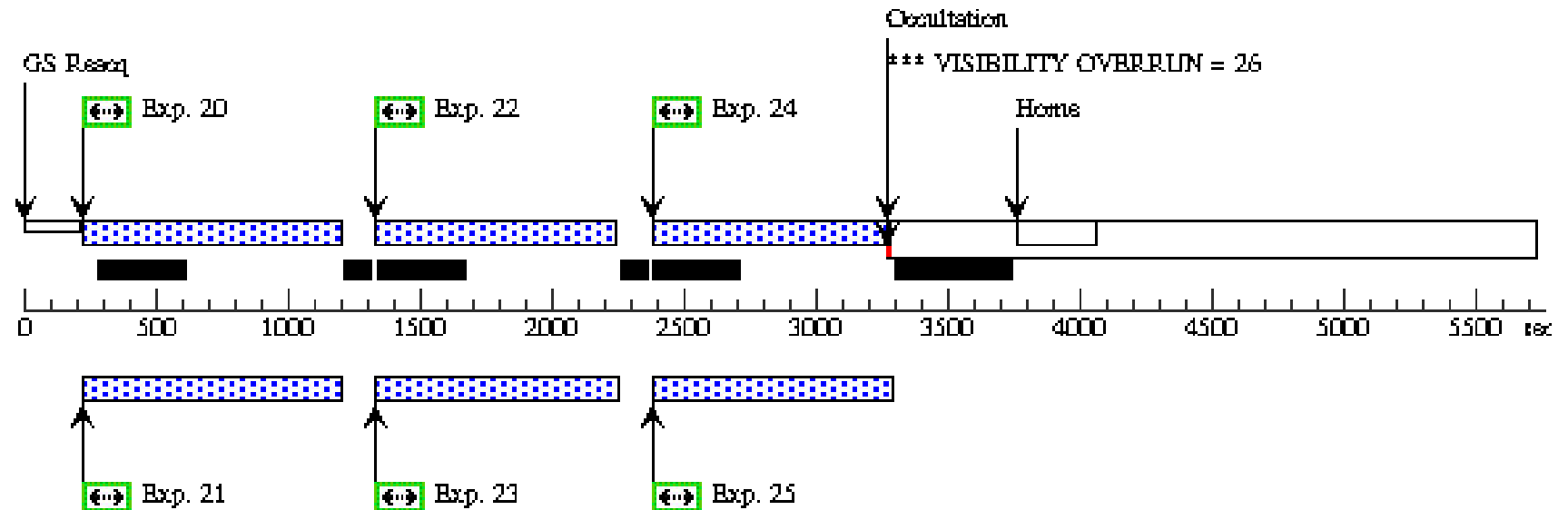
Orbit 3

Server Version: 20100505



Orbit 4

Server Version: 20100505

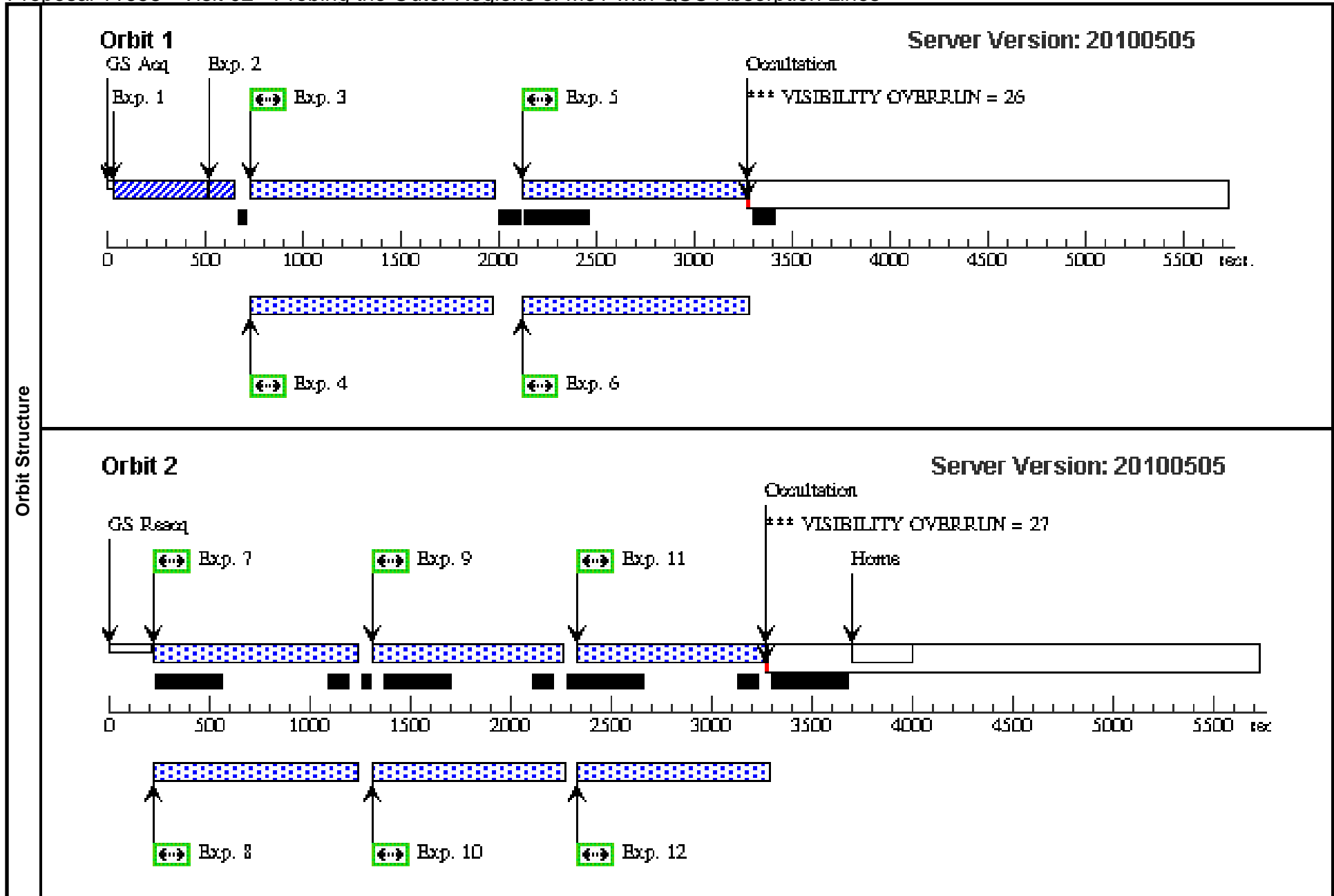


Proposal 11658 - Visit 01 - Probing the Outer Regions of M31 with QSO Absorption Lines

Visit	Proposal 11658, Visit 02, completed Thu Sep 09 01:17:30 GMT 2010 Diagnostic Status: Warning Scientific Instruments: ACS/WFC, COS/NUV Special Requirements: (none) <i>Comments: Any orientation is acceptable for the parallel observations, but the orientation must remain the same for all exposures in this Visit.</i>																	
	Diagnostics	(Visit 02) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS (Visit 02) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 02) Warning (Orbit Planner): VISIBILITY OVERRUN																
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	0024_acq_s earch	(2) Q0024+3439	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2; STEP-SIZE=1.767			9 Secs [==>]	[1]
	2	0024_acq_i mage	(2) Q0024+3439	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				9 Secs [==>]	[1]
	3	0024_G230 L	(2) Q0024+3439	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=1100; FLASH=YES; FP-POS=3		Prime + Parallel Group 3-4	1100 Secs [==>1140.0 Secs]	[1]
	4	0024_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Prime + Parallel Group 3-4	900 Secs [==>1035.0 Secs]	[1]
	5	0024_G230 L	(2) Q0024+3439	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=1100; FLASH=YES; FP-POS=4		Prime + Parallel Group 5-6	1100 Secs [==>1140.0 Secs]	[1]
	6	0024_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Prime + Parallel Group 5-6	900 Secs [==>1035.0 Secs]	[1]
	7	0024_G230 L	(2) Q0024+3439	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=800; FLASH=YES; FP-POS=1		Prime + Parallel Group 7-8	800 Secs [==>937.0 Secs]	[2]
	8	0024_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Prime + Parallel Group 7-8	700 Secs [==>900.0 Secs]	[2]
	9	0024_G230 L	(2) Q0024+3439	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=800; FLASH=YES; FP-POS=2		Prime + Parallel Group 9-10	800 Secs [==>937.0 Secs]	[2]
	10	0024_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO		Prime + Parallel Group 9-10	600 Secs [==>778.0 Secs]	[2]
	11	0024_G230 L	(2) Q0024+3439	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=800; FLASH=YES; FP-POS=3		Prime + Parallel Group 11-12	800 Secs [==>937.0 Secs]	[2]
12	0024_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO		Prime + Parallel Group 11-12	600 Secs [==>833.0 Secs]	[2]	

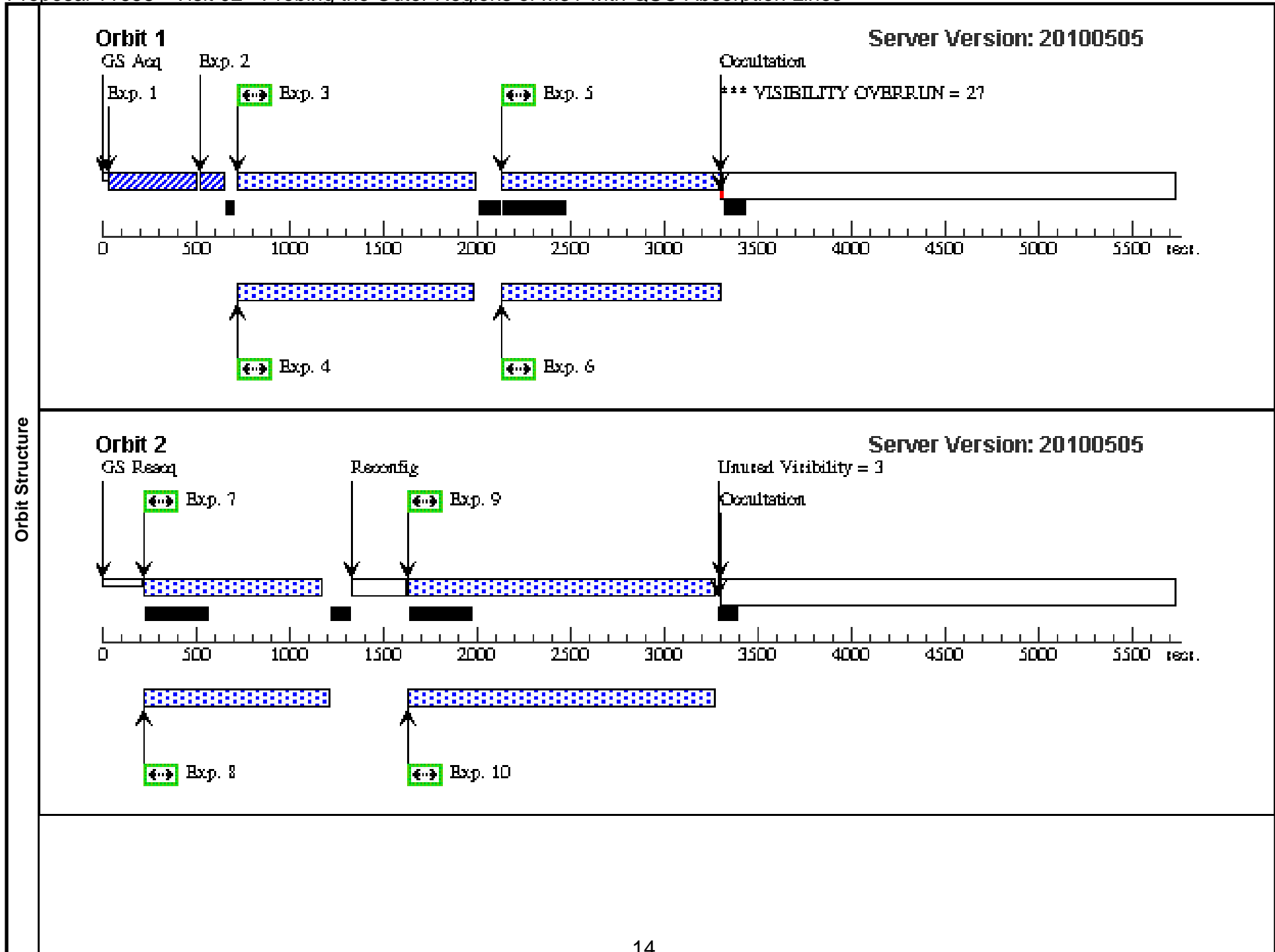


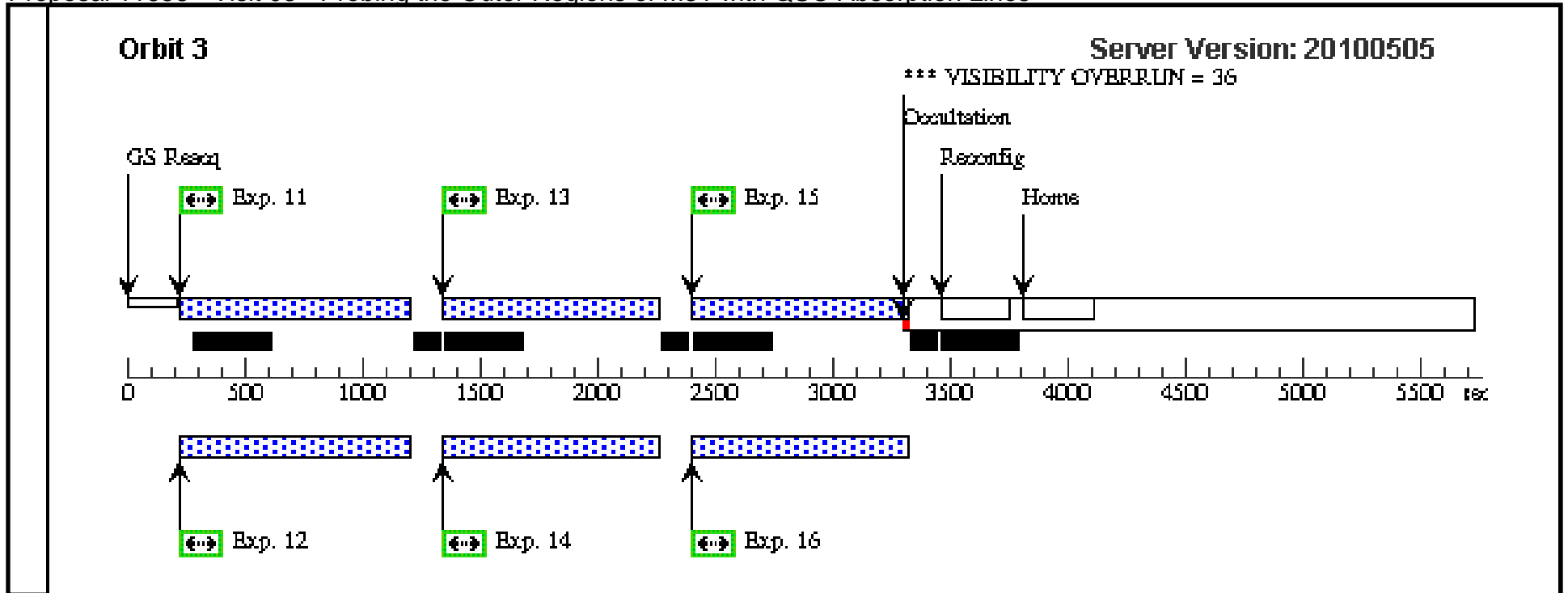
Proposal 11658 - Visit 02 - Probing the Outer Regions of M31 with QSO Absorption Lines

Visit	<p>Proposal 11658, Visit 03, completed Thu Sep 09 01:17:31 GMT 2010</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC, COS/NUV, COS/FUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: Any orientation is acceptable for the parallel observations, but the orientation must remain the same for all exposures in this Visit.</i></p>																
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Proposal 11658 - Visit 02 - Probing the Outer Regions of M31 with QSO Absorption Lines

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	0030_acq_s earch	(3) Q0030+3700	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2; STEP-SIZE=1.767		7 Secs [==>]	[1]
	2	0030_acq_i mage	(3) Q0030+3700	COS/NUV, ACQ/IMAGE, PSA	MIRRORA			7 Secs [==>]	[1]
	3	0030_G230 L	(3) Q0030+3700	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=11 00; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 3-4	1100 Secs [==>1160.0 Secs]	[1]
	4	0030_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 3-4	900 Secs [==>1050.0 Secs]	[1]
	5	0030_G230 L	(3) Q0030+3700	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=11 00; FLASH=YES; FP-POS=4	Prime + Parallel Gro up 5-6	1100 Secs [==>1160.0 Secs]	[1]
	6	0030_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 5-6	900 Secs [==>1050.0 Secs]	[1]
	7	0030_G230 L	(3) Q0030+3700	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=90 0; FLASH=YES; FP-POS=2	Prime + Parallel Gro up 7-8	900 Secs [==>870.0 Secs]	[2]
	8	0030_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 7-8	800 Secs [==>863.0 Secs]	[2]
	9	0030_G140 L	(3) Q0030+3700	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=15 00; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 9-10	1500 Secs [==>1470.0 Secs]	[2]
	10	0030_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 9-10	1200 Secs [==>1521.0 Secs]	[2]
	11	0030_G140 L	(3) Q0030+3700	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=85 0; FLASH=YES; FP-POS=1	Prime + Parallel Gro up 11-12	850 Secs [==>861.0 Secs]	[3]
	12	0030_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Gro up 11-12	500 Secs [==>806.0 Secs]	[3]
	13	0030_G140 L	(3) Q0030+3700	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=85 0; FLASH=YES; FP-POS=2	Prime + Parallel Gro up 13-14	850 Secs [==>861.0 Secs]	[3]
	14	0030_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Gro up 13-14	500 Secs [==>794.0 Secs]	[3]
	15	0030_G140 L	(3) Q0030+3700	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=85 0; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 15-16	850 Secs [==>861.0 Secs]	[3]
	16	0030_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Gro up 15-16	500 Secs [==>794.0 Secs]	[3]





Proposal 11658 - Visit 03 - Probing the Outer Regions of M31 with QSO Absorption Lines

Thu Sep 09 01:17:32 GMT 2010

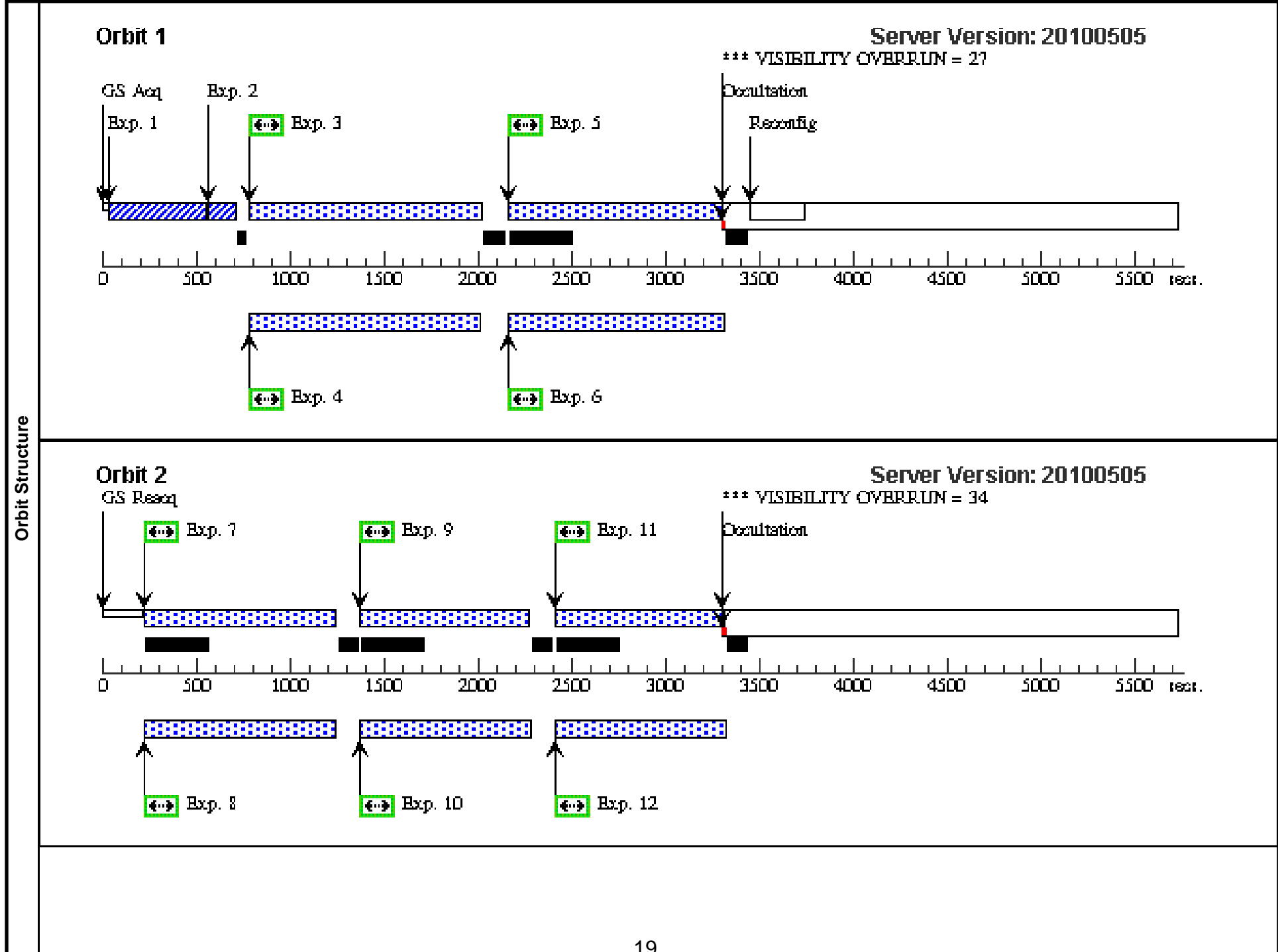
Visit	<p>Proposal 11658, Visit 04, failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC, COS/NUV, COS/FUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: Any orientation is acceptable for the parallel observations, but the orientation must remain the same for all exposures in this Visit.</i></p>																	
Diagnostics	<p>(Visit 04) Warning (Orbit Planner): VISIBILITY OVERRUN</p> <p>(Visit 04) Warning (Orbit Planner): VISIBILITY OVERRUN</p> <p>(Visit 04) Warning (Orbit Planner): VISIBILITY OVERRUN</p> <p>(Visit 04) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS</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>(4)</td> <td>Q0031+3727</td> <td>RA: 00 31 32.3702 (7.8848758d) Dec: +37 27 51.82 (37.46439d) Equinox: J2000</td> <td>Redshift: 1.30</td> <td>V=18.45+/-0.05 u = 18.50, FUV=19.73, NUV=19.09</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(4)	Q0031+3727	RA: 00 31 32.3702 (7.8848758d) Dec: +37 27 51.82 (37.46439d) Equinox: J2000	Redshift: 1.30	V=18.45+/-0.05 u = 18.50, FUV=19.73, NUV=19.09	Reference Frame: ICRS
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous													
(4)	Q0031+3727	RA: 00 31 32.3702 (7.8848758d) Dec: +37 27 51.82 (37.46439d) Equinox: J2000	Redshift: 1.30	V=18.45+/-0.05 u = 18.50, FUV=19.73, NUV=19.09	Reference Frame: ICRS													

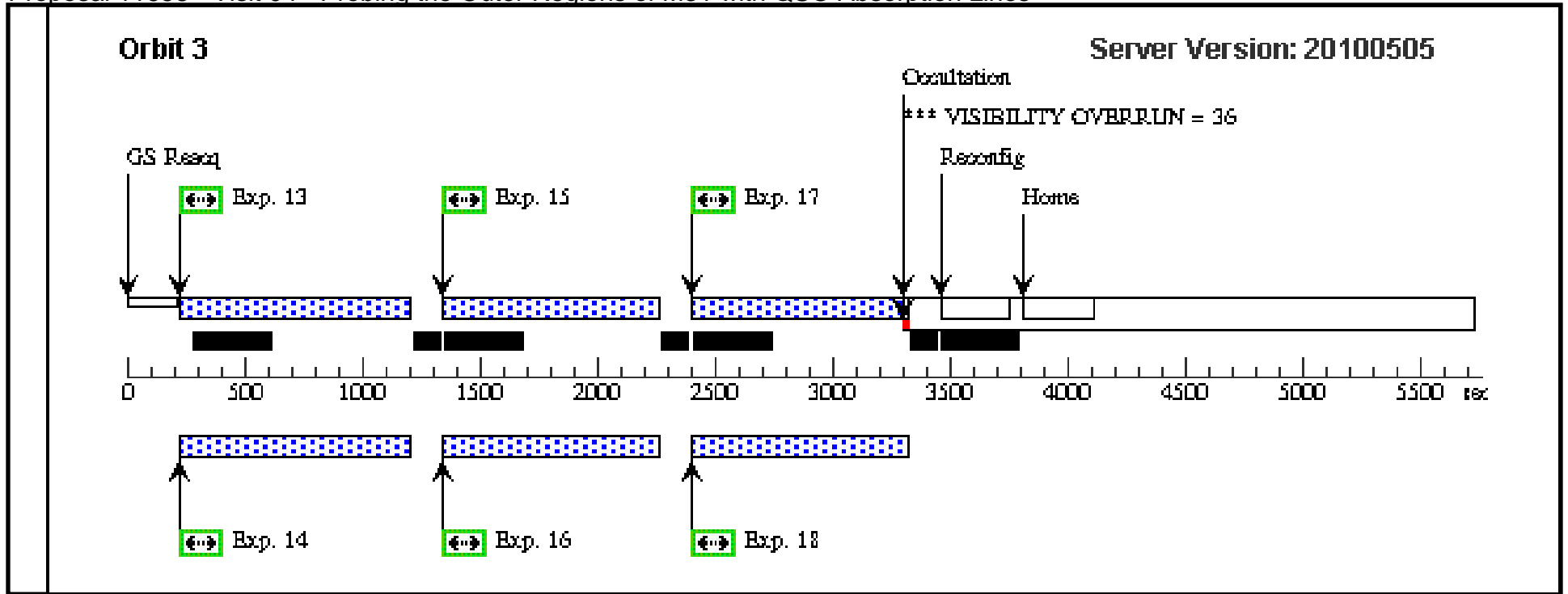
Proposal 11658 - Visit 03 - Probing the Outer Regions of M31 with QSO Absorption Lines

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	0031_acq_s earch	(4) Q0031+3727	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2; STEP-SIZE=1.767		18 Secs [==>]	[1]
	2	0031_acq_i mage	(4) Q0031+3727	COS/NUV, ACQ/IMAGE, PSA	MIRRORA			18 Secs [==>]	[1]
	3	0031_G230 L	(4) Q0031+3727	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=11 00; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 3-4	1100 Secs [==>1123.0 Secs]	[1]
	4	0031_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 3-4	900 Secs [==>1025.0 Secs]	[1]
	5	0031_G230 L	(4) Q0031+3727	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=11 00; FLASH=YES; FP-POS=4	Prime + Parallel Gro up 5-6	1100 Secs [==>1123.0 Secs]	[1]
	6	0031_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 5-6	900 Secs [==>1025.0 Secs]	[1]
	7	0031_G140 L	(4) Q0031+3727	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=85 0; FLASH=YES; FP-POS=2	Prime + Parallel Gro up 7-8	850 Secs [==>]	[2]
	8	0031_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 7-8	500 Secs [==>901.0 Secs]	[2]
	9	0031_G140 L	(4) Q0031+3727	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=85 0; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 9-10	850 Secs [==>]	[2]
	10	0031_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 9-10	600 Secs [==>783.0 Secs]	[2]
	11	0031_G140 L	(4) Q0031+3727	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=85 0; FLASH=YES; FP-POS=4	Prime + Parallel Gro up 11-12	850 Secs [==>]	[2]
	12	0031_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 11-12	600 Secs [==>783.0 Secs]	[2]
	13	0031_G140 L	(4) Q0031+3727	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=85 0; FLASH=YES; FP-POS=1	Prime + Parallel Gro up 13-14	850 Secs [==>861.0 Secs]	[3]
	14	0031_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Gro up 13-14	500 Secs [==>806.0 Secs]	[3]
	15	0031_G140 L	(4) Q0031+3727	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=85 0; FLASH=YES; FP-POS=2	Prime + Parallel Gro up 15-16	850 Secs [==>861.0 Secs]	[3]
	16	0031_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Gro up 15-16	500 Secs [==>794.0 Secs]	[3]

Proposal 11658 - Visit 03 - Probing the Outer Regions of M31 with QSO Absorption Lines

17	0031_G140 L	(4) Q0031+3727	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=85 0; FLASH=YES; FP-POS=3	Prime + Parallel Group up 17-18	850 Secs	
							[==>861.0 Secs]	[3]
18	0031_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Group up 17-18	500 Secs	
							[==>794.0 Secs]	[3]





Proposal 11658 - Visit 04 - Probing the Outer Regions of M31 with QSO Absorption Lines

Thu Sep 09 01:17:34 GMT 2010

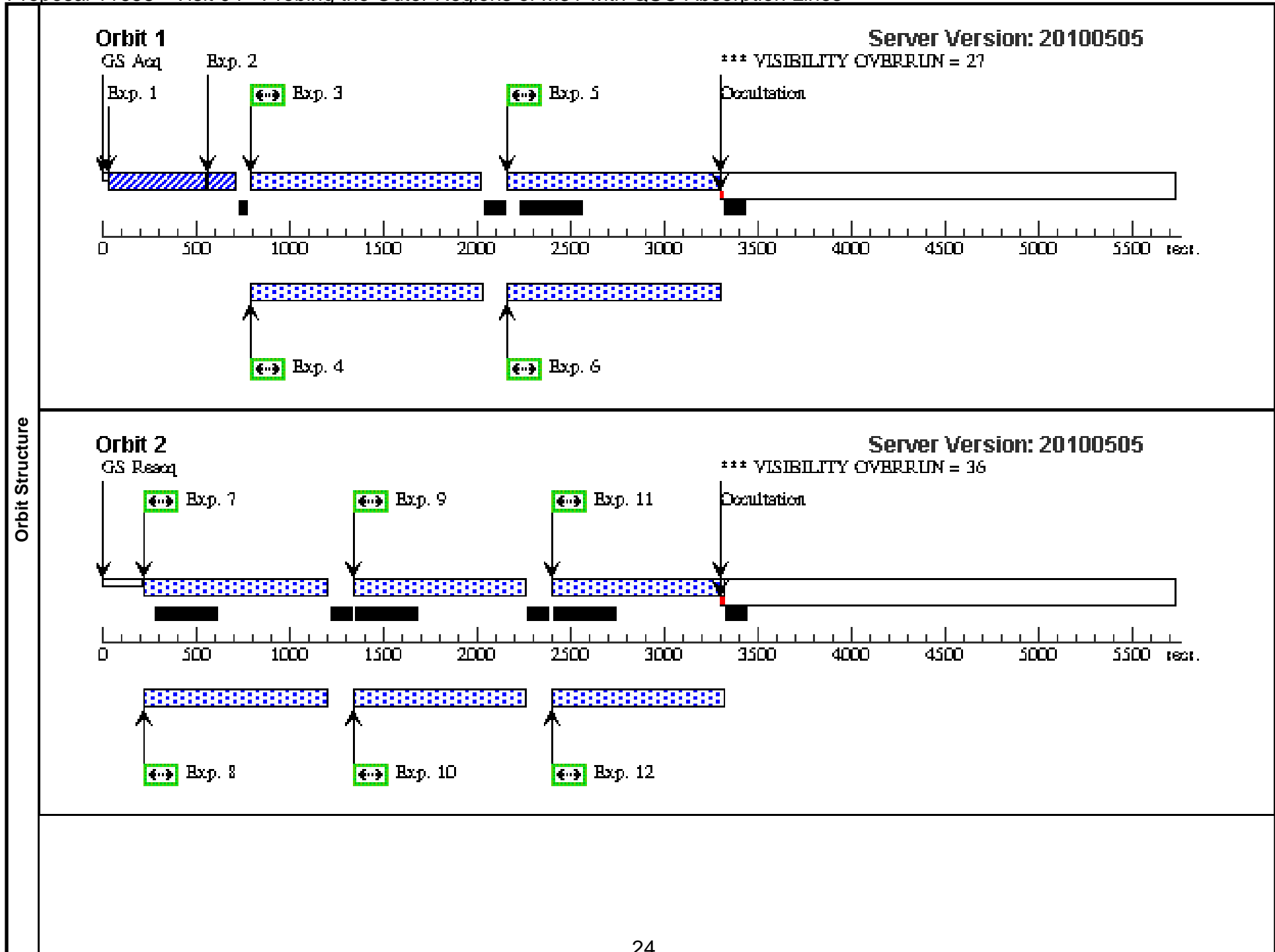
Visit	<p>Proposal 11658, Visit 05, scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: Any orientation is acceptable for the parallel observations, but the orientation must remain the same for all exposures in this Visit.</i></p>					
Diagnostics	<p>(Visit 05) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS</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): INEFFICIENT ORDERING OF FP-POS POSITIONS</p> <p>(Visit 05) Warning (Orbit Planner): VISIBILITY OVERRUN</p> <p>(Visit 05) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS</p> <p>(Visit 05) Warning (Orbit Planner): VISIBILITY OVERRUN</p>					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	Q0032+3946	RA: 00 32 55.7000 (8.2320833d) Dec: +39 46 19.27 (39.77202d) Equinox: J2000	Redshift: 1.14	V=18.52+/-0.05 u = 18.63, FUV=22.07, NUV=19.00	Reference Frame: ICRS

Proposal 11658 - Visit 04 - Probing the Outer Regions of M31 with QSO Absorption Lines

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	0032_acq_s earch	(5) Q0032+3946	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2; STEP-SIZE=1.767		19 Secs [==>]	[1]
	2	0032_acq_i mage	(5) Q0032+3946	COS/NUV, ACQ/IMAGE, PSA	MIRRORA			19 Secs [==>]	[1]
	3	0032_G230 L	(5) Q0032+3946	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=11 00; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 3-4	1100 Secs [==>1120.0 Secs]	[1]
	4	0032_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 3-4	900 Secs [==>1030.0 Secs]	[1]
	5	0032_G230 L	(5) Q0032+3946	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=11 00; FLASH=YES; FP-POS=4	Prime + Parallel Gro up 5-6	1100 Secs [==>1120.0 Secs]	[1]
	6	0032_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Gro up 5-6	800 Secs [==>966.0 Secs]	[1]
	7	0032_G230 L	(5) Q0032+3946	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=1	Prime + Parallel Gro up 7-8	860 Secs [==>898.0 Secs]	[2]
	8	0032_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 7-8	500 Secs [==>806.0 Secs]	[2]
	9	0032_G230 L	(5) Q0032+3946	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=2	Prime + Parallel Gro up 9-10	860 Secs [==>898.0 Secs]	[2]
	10	0032_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 9-10	500 Secs [==>794.0 Secs]	[2]
	11	0032_G230 L	(5) Q0032+3946	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 11-12	860 Secs [==>898.0 Secs]	[2]
	12	0032_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 11-12	500 Secs [==>794.0 Secs]	[2]
	13	0032_G230 L	(5) Q0032+3946	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=2	Prime + Parallel Gro up 13-14	860 Secs [==>898.0 Secs]	[3]
	14	0032_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Gro up 13-14	500 Secs [==>806.0 Secs]	[3]
	15	0032_G230 L	(5) Q0032+3946	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 15-16	860 Secs [==>898.0 Secs]	[3]
	16	0032_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Gro up 15-16	500 Secs [==>794.0 Secs]	[3]

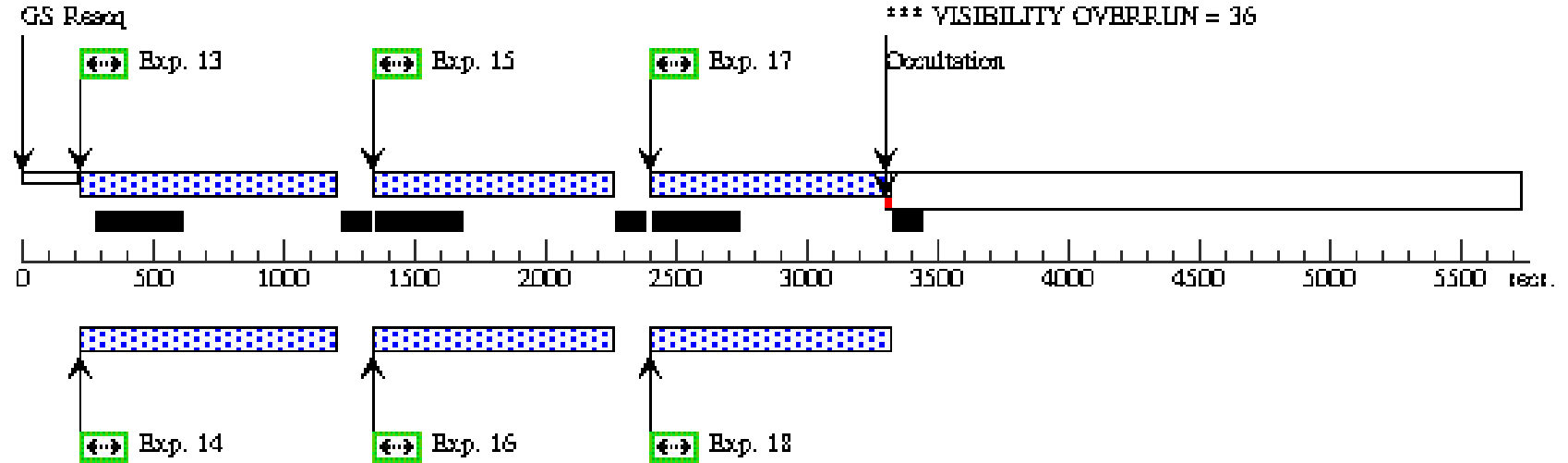
Proposal 11658 - Visit 04 - Probing the Outer Regions of M31 with QSO Absorption Lines

17	0032_G230 L	(5) Q0032+3946	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=4	Prime + Parallel Group up 17-18	860 Secs	
							[==>898.0 Secs]	[3]
18	0032_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Group up 17-18	500 Secs	
							[==>794.0 Secs]	[3]
19	0032_G230 L	(5) Q0032+3946	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=2	Prime + Parallel Group up 19-20	860 Secs	
							[==>898.0 Secs]	[4]
20	0032_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Group up 19-20	500 Secs	
							[==>806.0 Secs]	[4]
21	0032_G230 L	(5) Q0032+3946	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=3	Prime + Parallel Group up 21-22	860 Secs	
							[==>898.0 Secs]	[4]
22	0032_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Group up 21-22	500 Secs	
							[==>794.0 Secs]	[4]
23	0032_G230 L	(5) Q0032+3946	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=4	Prime + Parallel Group up 23-24	860 Secs	
							[==>898.0 Secs]	[4]
24	0032_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Group up 23-24	500 Secs	
							[==>794.0 Secs]	[4]



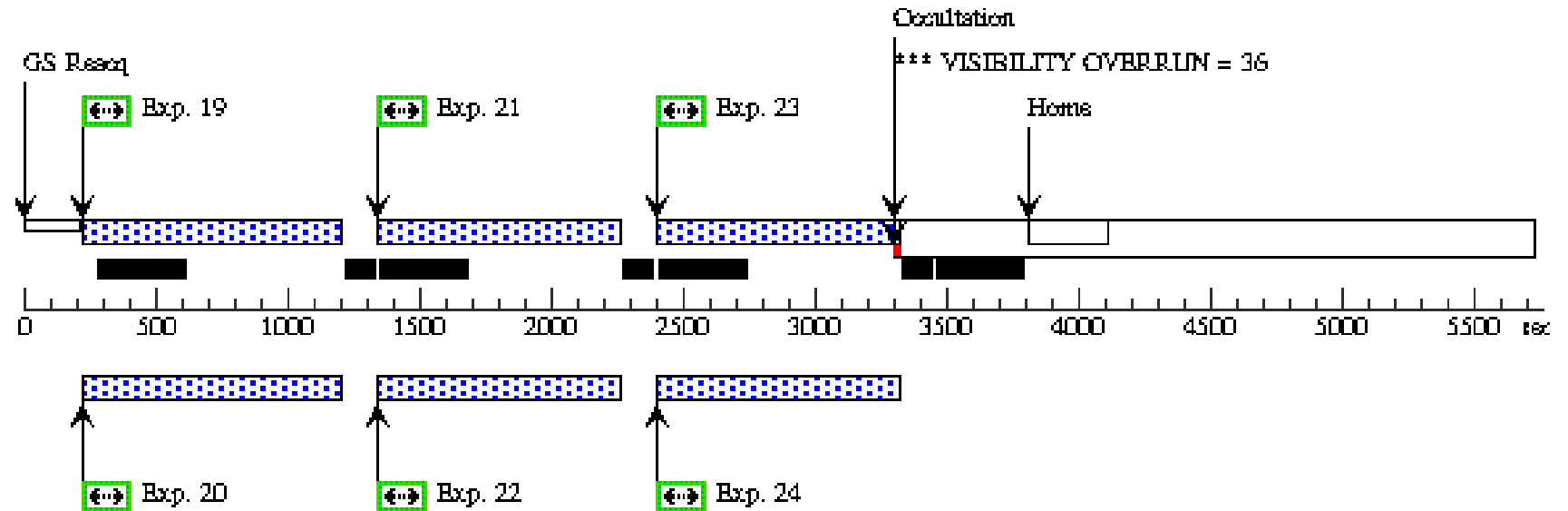
Orbit 3

Server Version: 20100505



Orbit 4

Server Version: 20100505



Proposal 11658 - Visit 05 - Probing the Outer Regions of M31 with QSO Absorption Lines

Thu Sep 09 01:17:36 GMT 2010

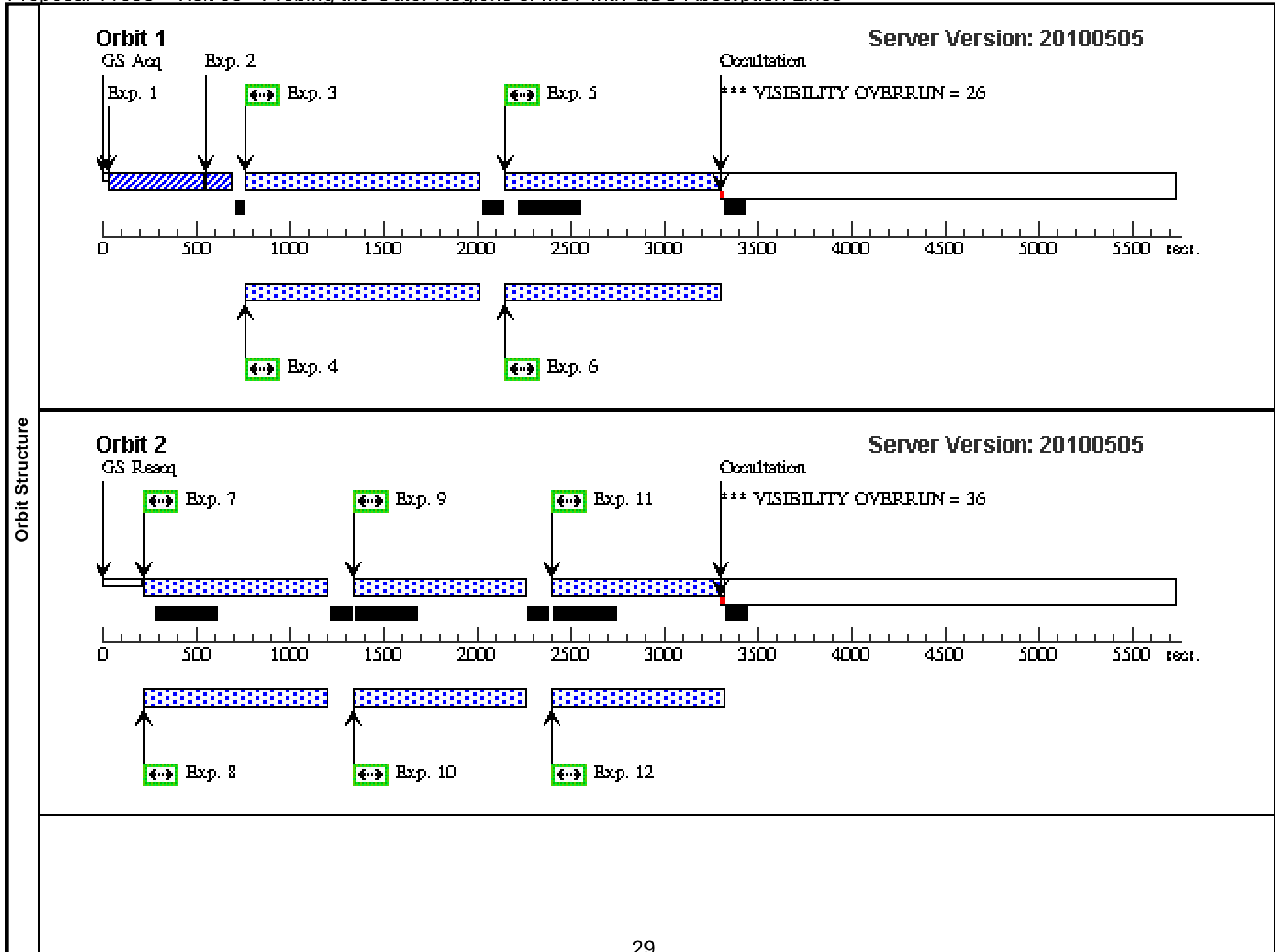
Visit	Proposal 11658, Visit 06, scheduling Diagnostic Status: Warning Scientific Instruments: ACS/WFC, COS/NUV Special Requirements: ORIENT 140.0D TO 160.0 D					
	Diagnostics	(Visit 06) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS				
(Visit 06) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS						
(Visit 06) Warning (Orbit Planner): VISIBILITY OVERRUN						
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(Visit 06) Warning (Orbit Planner): VISIBILITY OVERRUN						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(6)	Q0037+3908	RA: 00 37 48.0000 (9.4500000d) Dec: +39 08 58.66 (39.14963d) Equinox: J2000	Redshift: 1.13	V=18.31+/-0.05 u = 18.41	Reference Frame: ICRS

Proposal 11658 - Visit 05 - Probing the Outer Regions of M31 with QSO Absorption Lines

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	0037_acq_s earch	(6) Q0037+3908	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2; STEP-SIZE=1.767		15 Secs [==>]	[1]
	2	0037_acq_i mage	(6) Q0037+3908	COS/NUV, ACQ/IMAGE, PSA	MIRRORA			15 Secs [==>]	[1]
	3	0037_G230 L	(6) Q0037+3908	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=11 00; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 3-4	1100 Secs [==>1135.0 Secs]	[1]
	4	0037_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 3-4	900 Secs [==>1040.0 Secs]	[1]
	5	0037_G230 L	(6) Q0037+3908	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=11 00; FLASH=YES; FP-POS=4	Prime + Parallel Gro up 5-6	1100 Secs [==>1135.0 Secs]	[1]
	6	0037_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Gro up 5-6	800 Secs [==>975.0 Secs]	[1]
	7	0037_G230 L	(6) Q0037+3908	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=1	Prime + Parallel Gro up 7-8	860 Secs [==>898.0 Secs]	[2]
	8	0037_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 7-8	500 Secs [==>806.0 Secs]	[2]
	9	0037_G230 L	(6) Q0037+3908	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=2	Prime + Parallel Gro up 9-10	860 Secs [==>898.0 Secs]	[2]
	10	0037_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 9-10	500 Secs [==>794.0 Secs]	[2]
	11	0037_G230 L	(6) Q0037+3908	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 11-12	860 Secs [==>898.0 Secs]	[2]
	12	0037_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 11-12	500 Secs [==>794.0 Secs]	[2]
	13	0037_G230 L	(6) Q0037+3908	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=2	Prime + Parallel Gro up 13-14	860 Secs [==>898.0 Secs]	[3]
	14	0037_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 13-14	500 Secs [==>861.0 Secs]	[3]
	15	0037_G230 L	(6) Q0037+3908	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 15-16	860 Secs [==>898.0 Secs]	[3]
	16	0037_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 15-16	500 Secs [==>794.0 Secs]	[3]

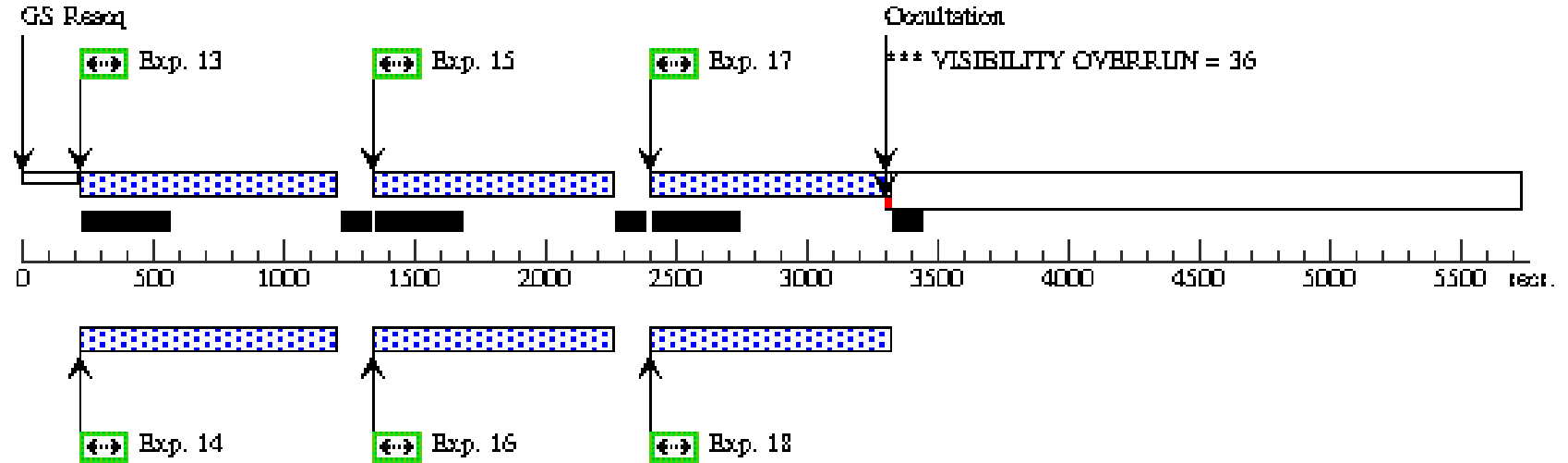
Proposal 11658 - Visit 05 - Probing the Outer Regions of M31 with QSO Absorption Lines

17	0037_G230 L	(6) Q0037+3908	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=4	Prime + Parallel Group up 17-18	860 Secs	
							[==>898.0 Secs]	[3]
18	0037_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Group up 17-18	500 Secs	
							[==>794.0 Secs]	[3]
19	0037_G230 L	(6) Q0037+3908	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=1	Prime + Parallel Group up 19-20	860 Secs	
							[==>898.0 Secs]	[4]
20	0037_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Group up 19-20	500 Secs	
							[==>806.0 Secs]	[4]
21	0037_G230 L	(6) Q0037+3908	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=2	Prime + Parallel Group up 21-22	860 Secs	
							[==>898.0 Secs]	[4]
22	0037_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Group up 21-22	500 Secs	
							[==>794.0 Secs]	[4]
23	0037_G230 L	(6) Q0037+3908	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=3	Prime + Parallel Group up 23-24	860 Secs	
							[==>898.0 Secs]	[4]
24	0037_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Group up 23-24	500 Secs	
							[==>794.0 Secs]	[4]



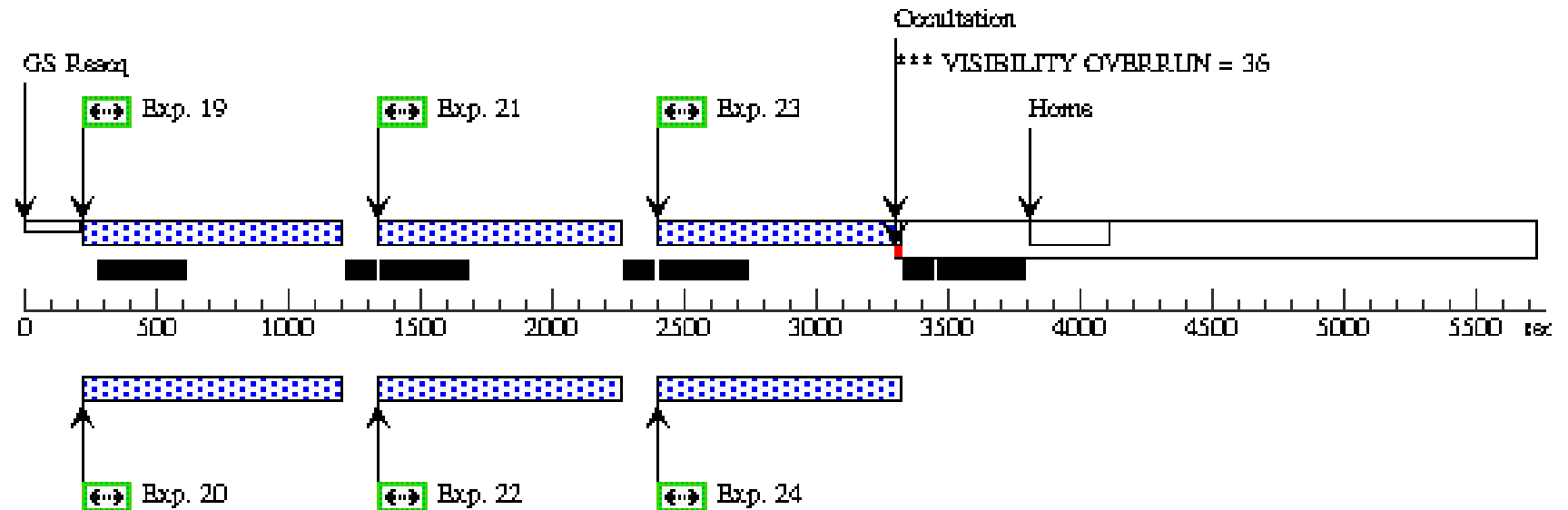
Server Version: 20100505

Orbit 3



Orbit 4

Server Version: 20100505



Proposal 11658 - Visit 06 - Probing the Outer Regions of M31 with QSO Absorption Lines

Thu Sep 09 01:17:38 GMT 2010

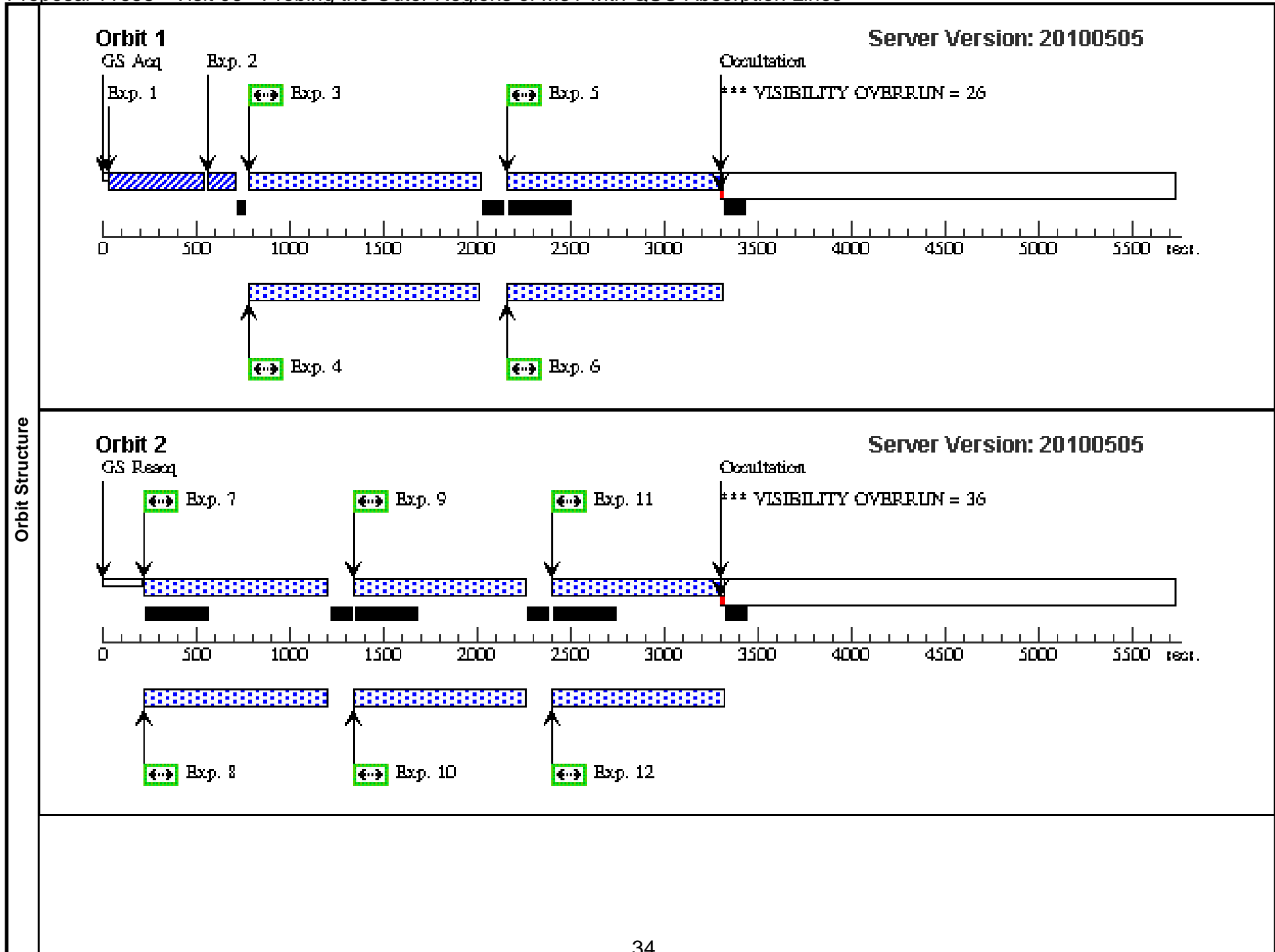
Visit	<p>Proposal 11658, Visit 07, scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC, COS/NUV, COS/FUV</p> <p>Special Requirements: ORIENT 124.0D TO 125.0 D</p>																													
	Diagnostics	<p>(Visit 07) Warning (Orbit Planner): VISIBILITY OVERRUN</p> <p>(Visit 07) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS</p> <p>(Visit 07) Warning (Orbit Planner): VISIBILITY OVERRUN</p> <p>(Visit 07) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS</p> <p>(Visit 07) Warning (Orbit Planner): VISIBILITY OVERRUN</p> <p>(Visit 07) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS</p> <p>(Visit 07) Warning (Orbit Planner): VISIBILITY OVERRUN</p> <p>(Visit 07) Warning (Orbit Planner): VISIBILITY OVERRUN</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>(7)</td> <td>Q0040+3915</td> <td>RA: 00 40 59.0299 (10.2459579d)</td> <td>Redshift: 1.10</td> <td>V=17.88+/-0.05</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td></td> <td>Dec: +39 15 12.32 (39.25342d)</td> <td></td> <td>u = 18.54</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Equinox: J2000</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(7)	Q0040+3915	RA: 00 40 59.0299 (10.2459579d)	Redshift: 1.10	V=17.88+/-0.05	Reference Frame: ICRS			Dec: +39 15 12.32 (39.25342d)		u = 18.54				Equinox: J2000								
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(7)	Q0040+3915	RA: 00 40 59.0299 (10.2459579d)	Redshift: 1.10	V=17.88+/-0.05	Reference Frame: ICRS																									
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		Equinox: J2000																												

Proposal 11658 - Visit 06 - Probing the Outer Regions of M31 with QSO Absorption Lines

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	0040_acq_s earch	(7) Q0040+3915	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2; STEP-SIZE=1.767		17 Secs [==>]	[1]
	2	0040_acq_i mage	(7) Q0040+3915	COS/NUV, ACQ/IMAGE, PSA	MIRRORA			17 Secs [==>]	[1]
	3	0040_G230 L	(7) Q0040+3915	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=11 00; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 3-4	1100 Secs [==>1128.0 Secs]	[1]
	4	0040_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 3-4	900 Secs [==>1025.0 Secs]	[1]
	5	0040_G230 L	(7) Q0040+3915	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=10 50; FLASH=YES; FP-POS=4	Prime + Parallel Gro up 5-6	1050 Secs [==>1128.0 Secs]	[1]
	6	0040_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 5-6	900 Secs [==>1025.0 Secs]	[1]
	7	0040_G230 L	(7) Q0040+3915	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=1	Prime + Parallel Gro up 7-8	860 Secs [==>898.0 Secs]	[2]
	8	0040_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 7-8	500 Secs [==>861.0 Secs]	[2]
	9	0040_G230 L	(7) Q0040+3915	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=2	Prime + Parallel Gro up 9-10	860 Secs [==>898.0 Secs]	[2]
	10	0040_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 9-10	500 Secs [==>794.0 Secs]	[2]
	11	0040_G230 L	(7) Q0040+3915	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 11-12	860 Secs [==>898.0 Secs]	[2]
	12	0040_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 11-12	500 Secs [==>794.0 Secs]	[2]
	13	0040_G230 L	(7) Q0040+3915	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=2	Prime + Parallel Gro up 13-14	860 Secs [==>898.0 Secs]	[3]
	14	0040_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 13-14	500 Secs [==>861.0 Secs]	[3]
	15	0040_G230 L	(7) Q0040+3915	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 15-16	860 Secs [==>898.0 Secs]	[3]
	16	0040_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 15-16	500 Secs [==>794.0 Secs]	[3]

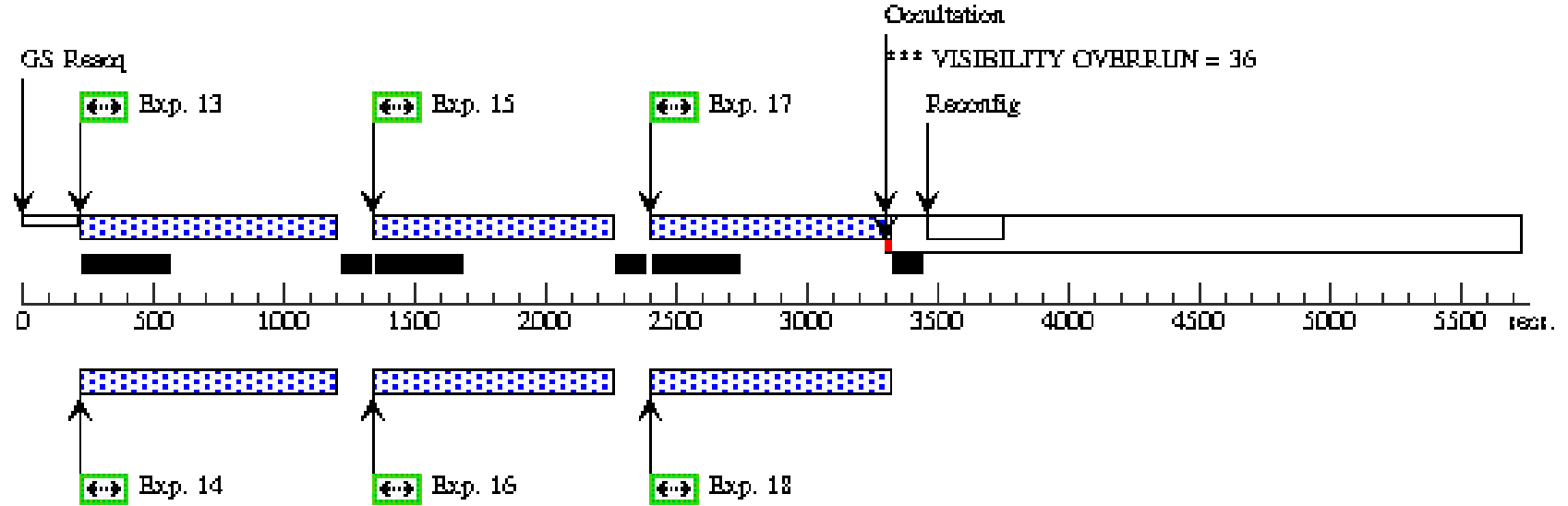
Proposal 11658 - Visit 06 - Probing the Outer Regions of M31 with QSO Absorption Lines

17	0040_G230 L	(7) Q0040+3915	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=4	Prime + Parallel Group up 17-18	860 Secs <i>[==>898.0 Secs]</i>	[3]
18	0040_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Group up 17-18	500 Secs <i>[==>794.0 Secs]</i>	[3]
19	0040_G140 L	(7) Q0040+3915	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=84 5; FLASH=YES; FP-POS=1	Prime + Parallel Group up 19-20	845 Secs <i>[==>841.0 Secs]</i>	[4]
20	0040_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Group up 19-20	700 Secs <i>[==>892.0 Secs]</i>	[4]
21	0040_G140 L	(7) Q0040+3915	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=84 5; FLASH=YES; FP-POS=2	Prime + Parallel Group up 21-22	845 Secs <i>[==>841.0 Secs]</i>	[4]
22	0040_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Group up 21-22	700 Secs <i>[==>800.0 Secs]</i>	[4]
23	0040_G140 L	(7) Q0040+3915	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=84 5; FLASH=YES; FP-POS=3	Prime + Parallel Group up 23-24	845 Secs <i>[==>841.0 Secs]</i>	[4]
24	0040_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Group up 23-24	700 Secs <i>[==>719.0 Secs]</i>	[4]
25	0040_G140 L	(7) Q0040+3915	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=2	Prime + Parallel Group up 25-26	860 Secs <i>[==>860.0 Secs]</i>	[5]
26	0040_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Group up 25-26	700 Secs <i>[==>860.0 Secs]</i>	[5]
27	0040_G140 L	(7) Q0040+3915	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=3	Prime + Parallel Group up 27-28	860 Secs <i>[==>860.0 Secs]</i>	[5]
28	0040_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Group up 27-28	700 Secs <i>[==>800.0 Secs]</i>	[5]
29	0040_G140 L	(7) Q0040+3915	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=4	Prime + Parallel Group up 29-30	860 Secs <i>[==>860.0 Secs]</i>	[5]
30	0040_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Group up 29-30	700 Secs <i>[==>800.0 Secs]</i>	[5]



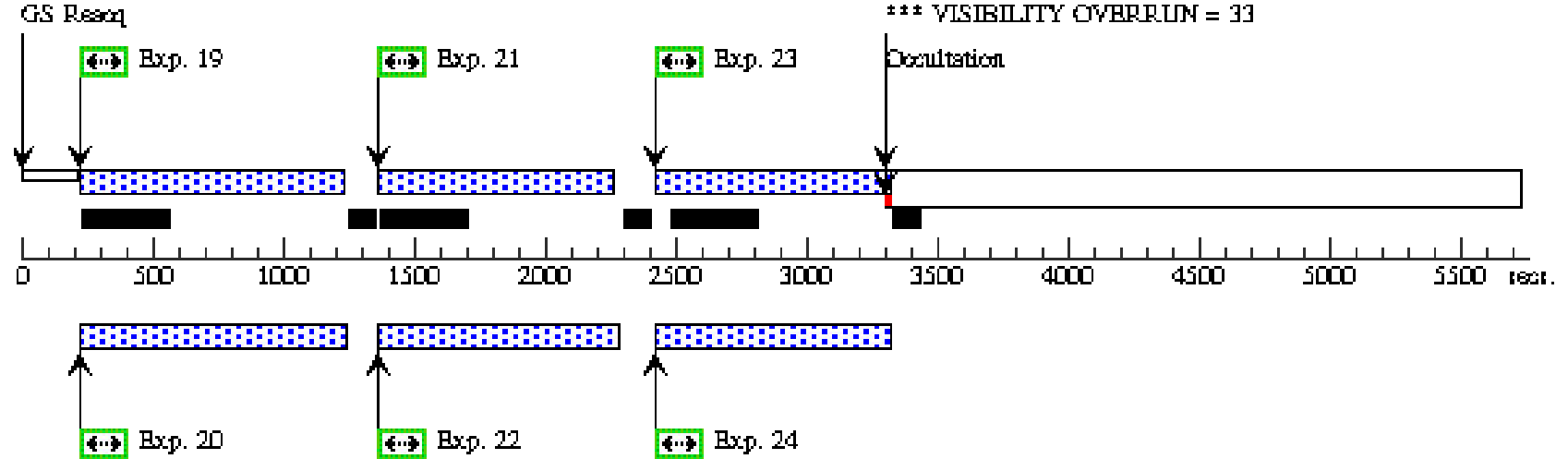
Orbit 3

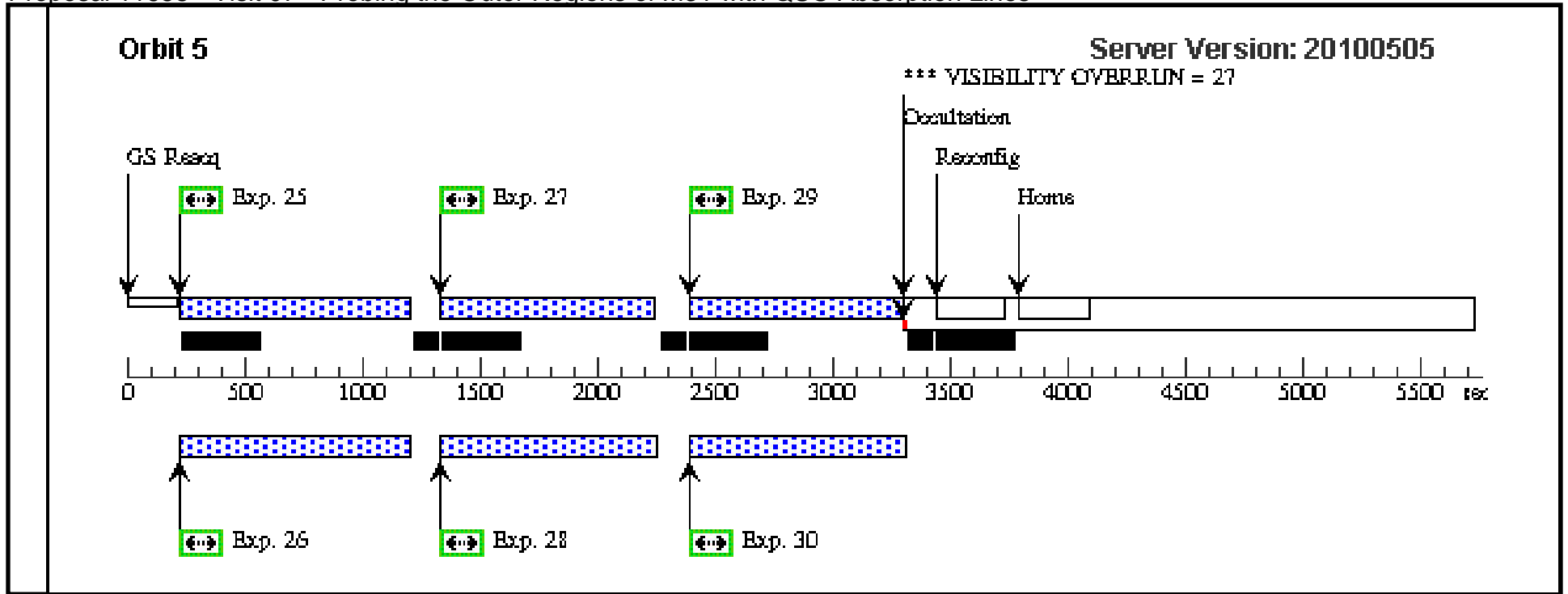
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Orbit 4

Server Version: 20100505

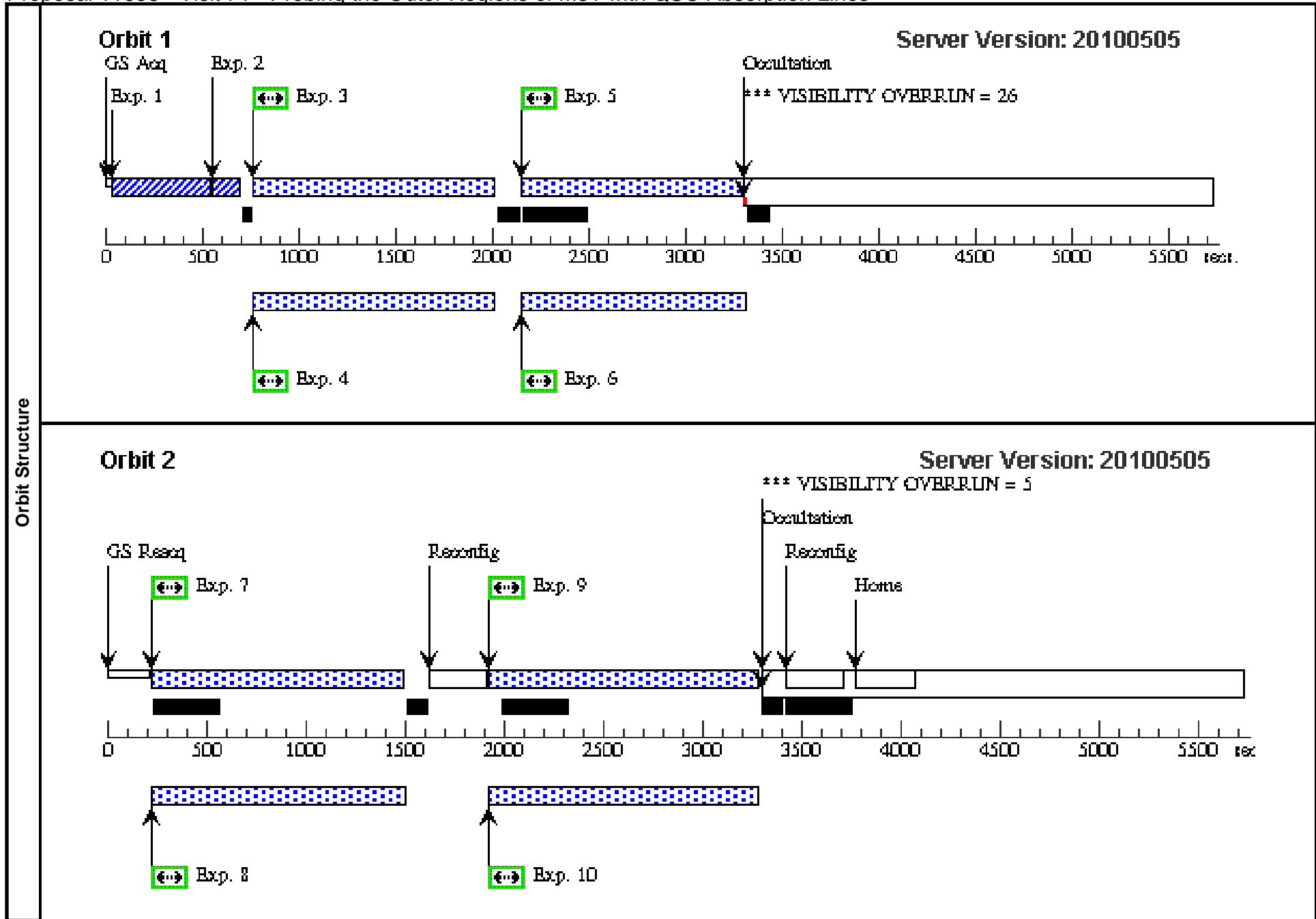




Proposal 11658 - Visit 07 - Probing the Outer Regions of M31 with QSO Absorption Lines

Thu Sep 09 01:17:40 GMT 2010

Visit	Proposal 11658, Visit 71, scheduling Diagnostic Status: Warning Scientific Instruments: ACS/WFC, COS/NUV, COS/FUV Special Requirements: SAME ORIENT AS 07									
	Diagnostics	(Visit 71) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS (Visit 71) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 71) Warning (Orbit Planner): VISIBILITY OVERRUN								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(7)	Q0040+3915	RA: 00 40 59.0299 (10.2459579d) Dec: +39 15 12.32 (39.25342d) Equinox: J2000	Redshift: 1.10	V=17.88+/-0.05 u = 18.54	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	0040_acq_search	(7) Q0040+3915	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2; STEP-SIZE=1.767			15 Secs [==>]	[1]
	2	0040_acq_image	(7) Q0040+3915	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				15 Secs [==>]	[1]
	3	0040_G230L	(7) Q0040+3915	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=1100; FLASH=YES; FP-POS=3		Prime + Parallel Group 3-4	1100 Secs [==>1132.0 Secs]	[1]
	4	0040_F606W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO		Prime + Parallel Group 3-4	900 Secs [==>1040.0 Secs]	[1]
	5	0040_G230L	(7) Q0040+3915	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=1100; FLASH=YES; FP-POS=4		Prime + Parallel Group 5-6	1100 Secs [==>1132.0 Secs]	[1]
	6	0040_F606W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO		Prime + Parallel Group 5-6	900 Secs [==>1033.0 Secs]	[1]
	7	0040_G230L	(7) Q0040+3915	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=1190; FLASH=YES; FP-POS=3		Prime + Parallel Group 7-8	1190 Secs [==>1189.0 Secs]	[2]
	8	0040_F606W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO		Prime + Parallel Group 7-8	1100 Secs [==>1152.0 Secs]	[2]
	9	0040_G140L	(7) Q0040+3915	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=1190; FLASH=YES; FP-POS=3		Prime + Parallel Group 9-10	1190 Secs [==>1189.0 Secs]	[2]
10	0040_F814W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Prime + Parallel Group 9-10	1100 Secs [==>1185.0 Secs]	[2]	



Proposal 11658 - Visit 71 - Probing the Outer Regions of M31 with QSO Absorption Lines

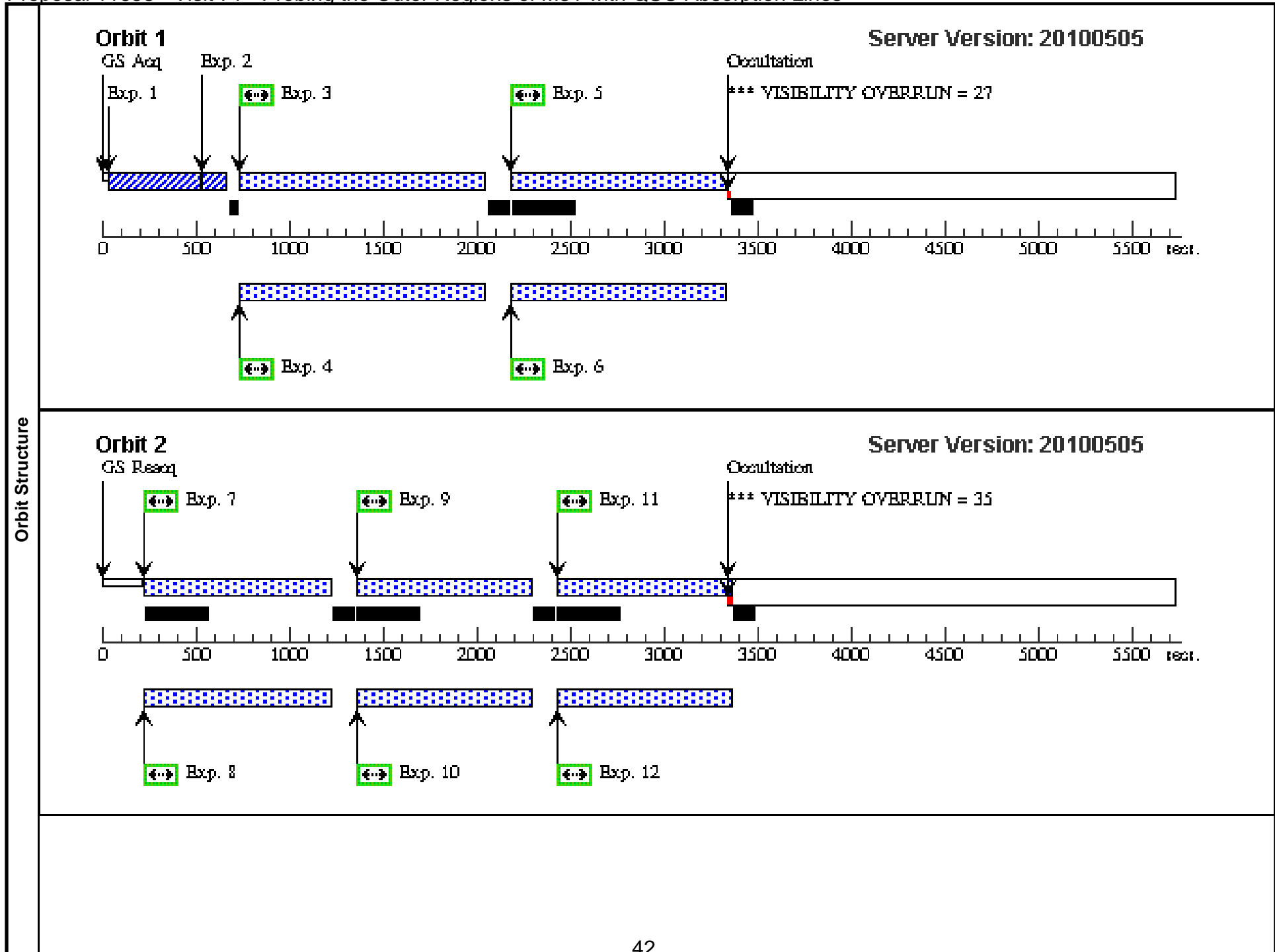
Visit	<p>Proposal 11658, Visit 08, completed Thu Sep 09 01:17:41 GMT 2010 Diagnostic Status: Warning Scientific Instruments: ACS/WFC, COS/NUV, COS/FUV Special Requirements: ORIENT 245.0D TO 255.0 D</p>																	
	Diagnostics	<p>(Visit 08) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 08) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 08) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 08) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 08) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS (Visit 08) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 08) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS (Visit 08) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS</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>(8)</td> <td>Q0043+4016</td> <td> RA: 00 43 52.4525 (10.9685521d) Dec: +40 16 29.43 (40.27484d) Equinox: J2000 </td> <td>Redshift: 1.09</td> <td> V=18.09+/-0.05 u = 18.19, FUV=20.14, NUV=18.27 </td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(8)	Q0043+4016	RA: 00 43 52.4525 (10.9685521d) Dec: +40 16 29.43 (40.27484d) Equinox: J2000	Redshift: 1.09	V=18.09+/-0.05 u = 18.19, FUV=20.14, NUV=18.27	Reference Frame: ICRS					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(8)	Q0043+4016	RA: 00 43 52.4525 (10.9685521d) Dec: +40 16 29.43 (40.27484d) Equinox: J2000	Redshift: 1.09	V=18.09+/-0.05 u = 18.19, FUV=20.14, NUV=18.27	Reference Frame: ICRS													

Proposal 11658 - Visit 71 - Probing the Outer Regions of M31 with QSO Absorption Lines

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	0043+4016_ acq_search	(8) Q0043+4016	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2; STEP-SIZE=1.767		10 Secs [==>]	[1]
	2	0043+4016_ acq_image	(8) Q0043+4016	COS/NUV, ACQ/IMAGE, PSA	MIRRORA			10 Secs [==>]	[1]
	3	0043+4016_ G230L	(8) Q0043+4016	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=11 50; FLASH=YES; FP-POS=3	Prime + Parallel Group 3-4	1150 Secs [==>1195.0 Secs]	[1]
	4	0043+4016_ ANY F814W_par		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Group 3-4	900 Secs [==>1100.0 Secs]	[1]
	5	0043+4016_ G230L	(8) Q0043+4016	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=11 00; FLASH=YES; FP-POS=4	Prime + Parallel Group 5-6	1100 Secs [==>1147.0 Secs]	[1]
	6	0043+4016_ ANY F814W_par		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Group 5-6	900 Secs [==>1030.0 Secs]	[1]
	7	0043+4016_ G230L	(8) Q0043+4016	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=1	Prime + Parallel Group 7-8	860 Secs [==>911.0 Secs]	[2]
	8	0043+4016_ ANY F814W_par		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Group 7-8	500 Secs [==>874.0 Secs]	[2]
	9	0043+4016_ G230L	(8) Q0043+4016	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=2	Prime + Parallel Group 9-10	860 Secs [==>911.0 Secs]	[2]
	10	0043+4016_ ANY F814W_par		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Group 9-10	500 Secs [==>807.0 Secs]	[2]
	11	0043+4016_ G230L	(8) Q0043+4016	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=3	Prime + Parallel Group 11-12	860 Secs [==>911.0 Secs]	[2]
	12	0043+4016_ ANY F814W_par		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Group 11-12	500 Secs [==>807.0 Secs]	[2]
	13	0043+4016_ G230L	(8) Q0043+4016	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=45 0; FLASH=YES; FP-POS=3	Prime + Parallel Group 13-14	450 Secs [==>461.0 Secs]	[3]
	14	0043+4016_ ANY F814W_par		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Group 13-14	300 Secs [==>354.0 Secs]	[3]
	15	0043+4016_ G140L	(8) Q0043+4016	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=10 00; FLASH=YES; FP-POS=3	Prime + Parallel Group 15-16	1000 Secs [==>1011.0 Secs]	[3]
	16	0043+4016_ ANY F814W_par		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Group 15-16	700 Secs [==>1062.0 Secs]	[3]

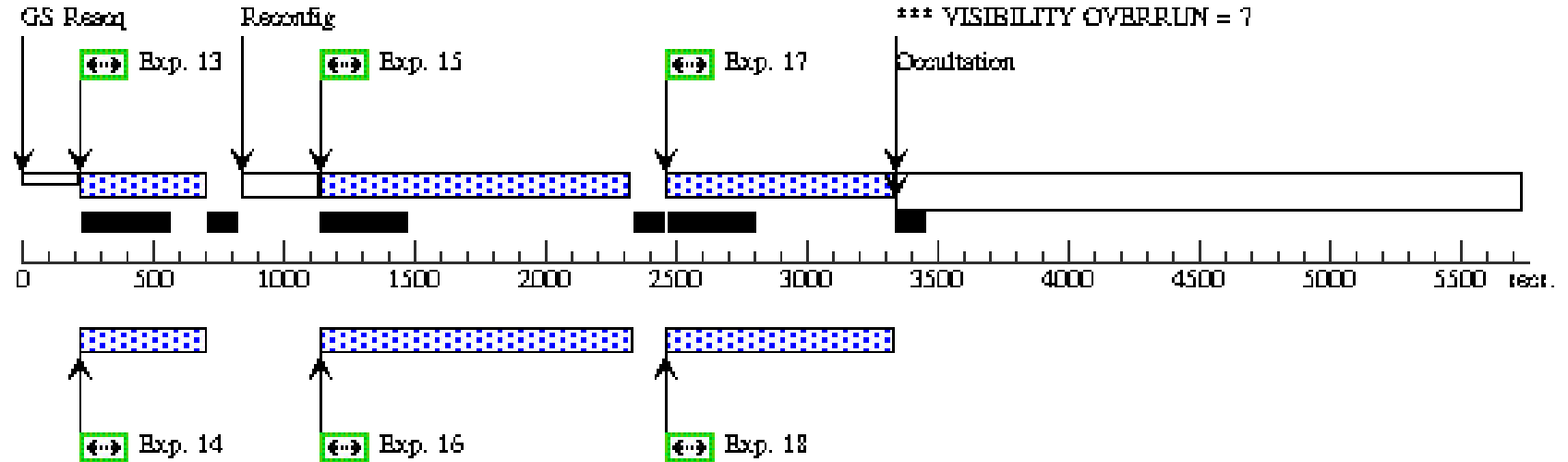
Proposal 11658 - Visit 71 - Probing the Outer Regions of M31 with QSO Absorption Lines

17	0043+4016_ (8) Q0043+4016 G140L	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=80 0; FLASH=YES; FP-POS=4	Prime + Parallel Group up 17-18	800 Secs [==>811.0 Secs]	[3]
18	0043+4016_ ANY F814W_par	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Group up 17-18	600 Secs [==>744.0 Secs]	[3]
19	0043+4016_ (8) Q0043+4016 G140L	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=84 5; FLASH=YES; FP-POS=1	Prime + Parallel Group up 19-20	845 Secs [==>875.0 Secs]	[4]
20	0043+4016_ ANY F814W_par	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Group up 19-20	700 Secs [==>870.0 Secs]	[4]
21	0043+4016_ (8) Q0043+4016 G140L	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=84 5; FLASH=YES; FP-POS=2	Prime + Parallel Group up 21-22	845 Secs [==>875.0 Secs]	[4]
22	0043+4016_ ANY F814W_par	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Group up 21-22	700 Secs [==>800.0 Secs]	[4]
23	0043+4016_ (8) Q0043+4016 G140L	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=84 5; FLASH=YES; FP-POS=3	Prime + Parallel Group up 23-24	845 Secs [==>875.0 Secs]	[4]
24	0043+4016_ ANY F606W_par	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Group up 23-24	700 Secs [==>755.0 Secs]	[4]
25	0043+4016_ (8) Q0043+4016 G140L	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=2	Prime + Parallel Group up 25-26	860 Secs [==>875.0 Secs]	[5]
26	0043+4016_ ANY F606W_par	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Group up 25-26	700 Secs [==>865.0 Secs]	[5]
27	0043+4016_ (8) Q0043+4016 G140L	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=3	Prime + Parallel Group up 27-28	860 Secs [==>875.0 Secs]	[5]
28	0043+4016_ ANY F606W_par	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Group up 27-28	700 Secs [==>805.0 Secs]	[5]
29	0043+4016_ (8) Q0043+4016 G140L	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=86 0; FLASH=YES; FP-POS=4	Prime + Parallel Group up 29-30	860 Secs [==>875.0 Secs]	[5]
30	0043+4016_ ANY F606W_par	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Group up 29-30	700 Secs [==>805.0 Secs]	[5]



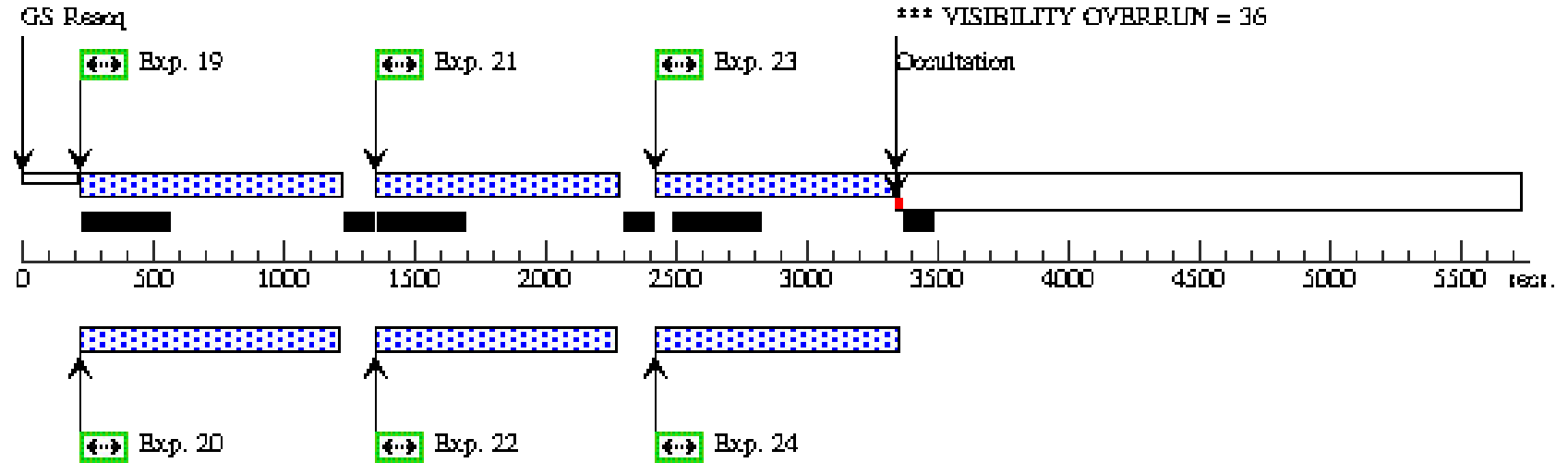
Orbit 3

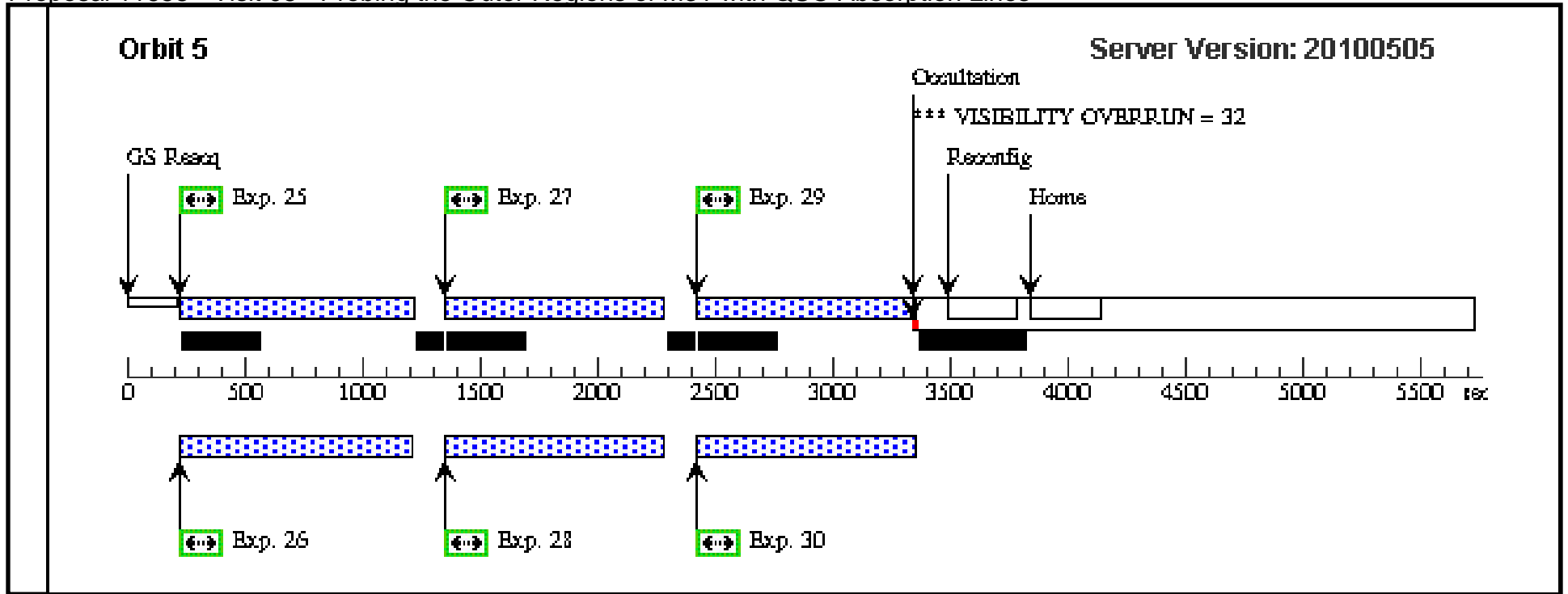
Server Version: 20100505



Orbit 4

Server Version: 20100505





Proposal 11658 - Visit 08 - Probing the Outer Regions of M31 with QSO Absorption Lines

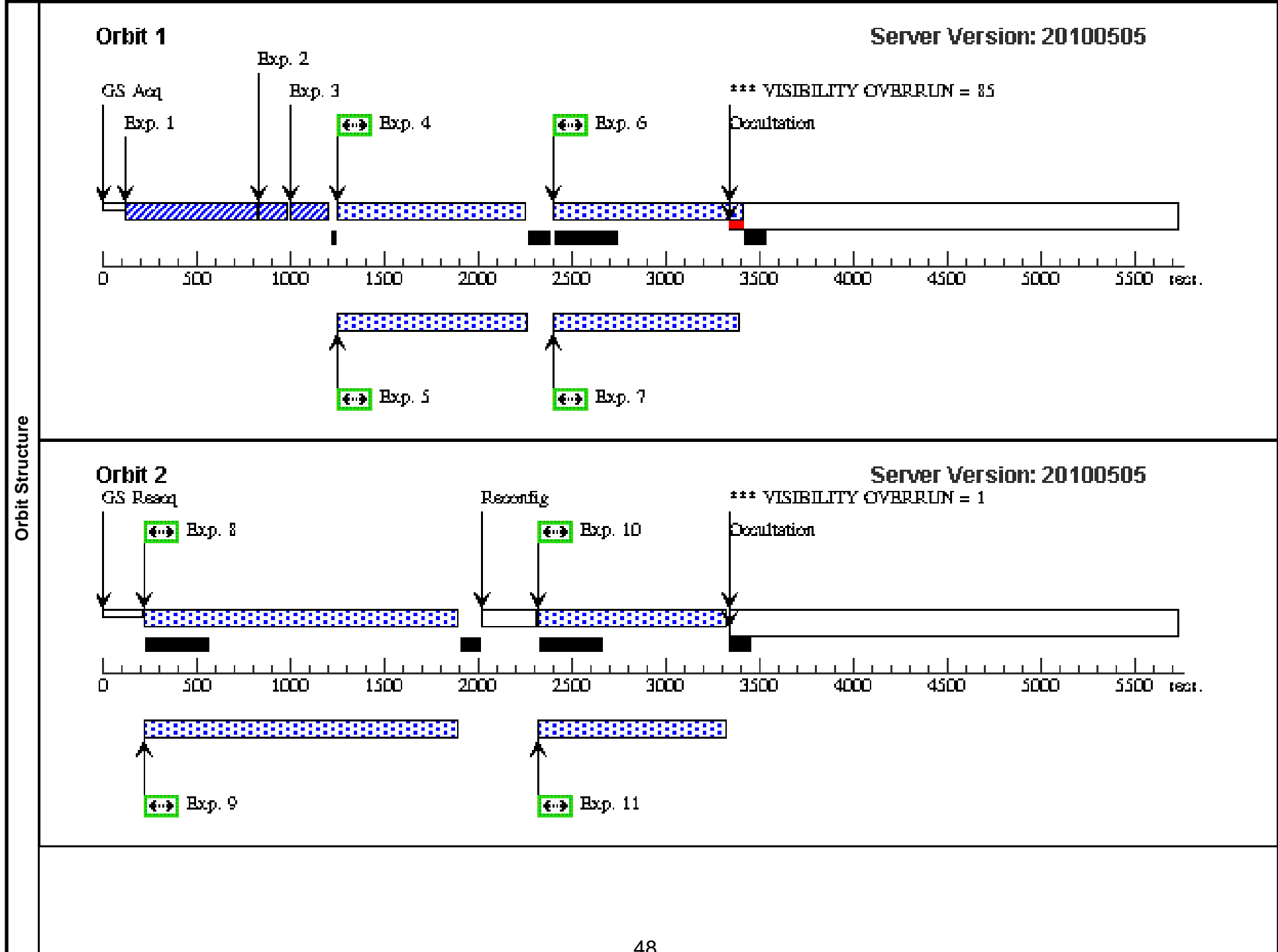
Visit	Proposal 11658, Visit 09, completed Thu Sep 09 01:17:43 GMT 2010 Diagnostic Status: Warning Scientific Instruments: ACS/WFC, COS/NUV, COS/FUV Special Requirements: ORIENT 205.0D TO 225.0 D					
	Diagnostics	(Visit 09) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS				
(Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN						
(Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN						
(Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN						
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(Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	Q0043+4234	RA: 00 43 54.9838 (10.9790992d) Dec: +42 34 30.28 (42.57508d) Equinox: J2000	Redshift: 0.19	V=17.73+/-0.05 u = 18.01, FUV=18.46, NUV=18.41	Reference Frame: ICRS

Proposal 11658 - Visit 08 - Probing the Outer Regions of M31 with QSO Absorption Lines

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	0043+4234_ acq_search	(9) Q0043+4234	COS/FUV, ACQ/SEARCH, PSA	G140L 1105 A	SCAN-SIZE=3; STEP-SIZE=1.767		23 Secs [==>]	[1]
	2	0043+4234_ acq_peakxd	(9) Q0043+4234	COS/FUV, ACQ/PEAKXD, PSA	G140L 1105 A			23 Secs [==>]	[1]
	3	0043+4234_ acq_peakd	(9) Q0043+4234	COS/FUV, ACQ/PEAKD, PSA	G140L 1105 A	CENTER=DEF; NUM-POS=3; STEP-SIZE=1.2		23 Secs [==>]	[1]
	4	0043+4234_ G140L	(9) Q0043+4234	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=95 0; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 4-5	950 Secs [==>952.0 Secs]	[1]
	5	0043+4234_ F814W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 4-5	500 Secs [==>800.0 Secs]	[1]
	6	0043+4234_ G140L	(9) Q0043+4234	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=95 0; FLASH=YES; FP-POS=4	Prime + Parallel Gro up 6-7	950 Secs [==>952.0 Secs]	[1]
	7	0043+4234_ F814W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 6-7	500 Secs [==>870.0 Secs]	[1]
	8	0043+4234_ G140L	(9) Q0043+4234	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=15 50; FLASH=YES; FP-POS=2	Prime + Parallel Gro up 8-9	1550 Secs [==>1550.0 Secs]	[2]
	9	0043+4234_ F814W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 8-9	1400 Secs [==>1550.0 Secs]	[2]
	10	0043+4234_ G230L	(9) Q0043+4234	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=66 0; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 10-11	660 Secs [==>666.0 Secs]	[2]
	11	0043+4234_ F814W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 10-11	500 Secs [==>878.0 Secs]	[2]
	12	0043+4234_ G230L	(9) Q0043+4234	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=90 0; FLASH=YES; FP-POS=1	Prime + Parallel Gro up 12-13	900 Secs [==>915.0 Secs]	[3]
	13	0043+4234_ F606W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Gro up 12-13	500 Secs [==>823.0 Secs]	[3]
	14	0043+4234_ G230L	(9) Q0043+4234	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=90 0; FLASH=YES; FP-POS=2	Prime + Parallel Gro up 14-15	900 Secs [==>915.0 Secs]	[3]
	15	0043+4234_ F814W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 14-15	500 Secs [==>756.0 Secs]	[3]

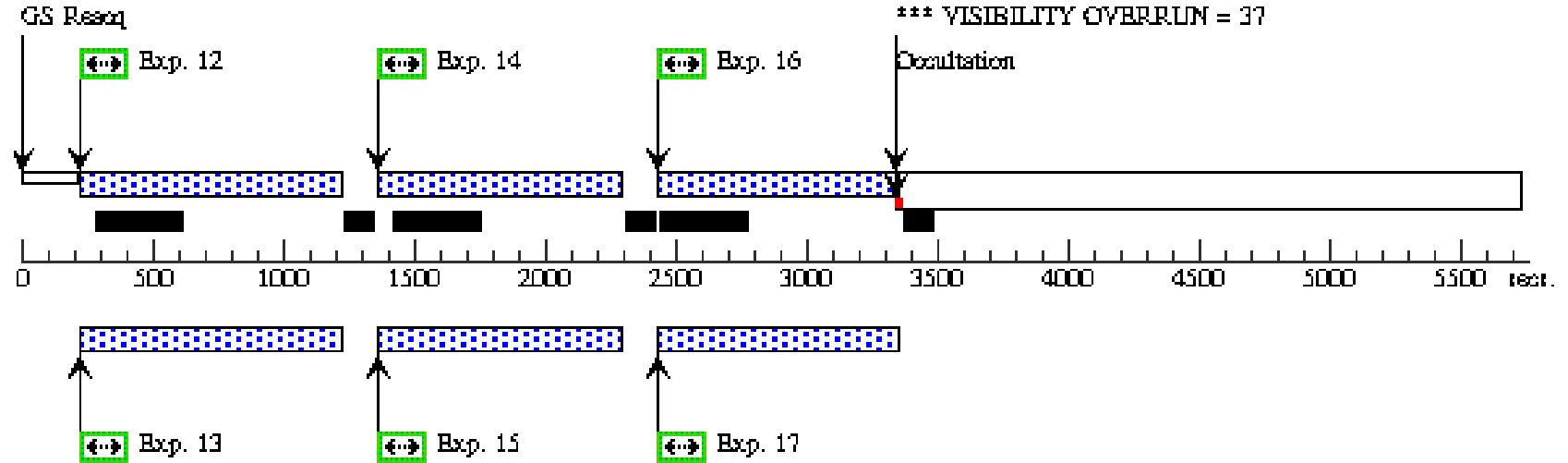
Proposal 11658 - Visit 08 - Probing the Outer Regions of M31 with QSO Absorption Lines

16	0043+4234_ (9) Q0043+4234 G230L	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=89 0; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 16-17	890 Secs <i>[==>905.0 Secs]</i>	[3]
17	0043+4234_ ANY F814W_par	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 16-17	500 Secs <i>[==>801.0 Secs]</i>	[3]
18	0043+4234_ (9) Q0043+4234 G230L	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=90 0; FLASH=YES; FP-POS=2	Prime + Parallel Gro up 18-19	900 Secs <i>[==>915.0 Secs]</i>	[4]
19	0043+4234_ ANY F606W_par	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Gro up 18-19	500 Secs <i>[==>823.0 Secs]</i>	[4]
20	0043+4234_ (9) Q0043+4234 G230L	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=90 0; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 20-21	900 Secs <i>[==>915.0 Secs]</i>	[4]
21	0043+4234_ ANY F606W_par	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Gro up 20-21	500 Secs <i>[==>811.0 Secs]</i>	[4]
22	0043+4234_ (9) Q0043+4234 G230L	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=89 0; FLASH=YES; FP-POS=4	Prime + Parallel Gro up 22-23	890 Secs <i>[==>905.0 Secs]</i>	[4]
23	0043+4234_ ANY F606W_par	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Gro up 22-23	500 Secs <i>[==>801.0 Secs]</i>	[4]



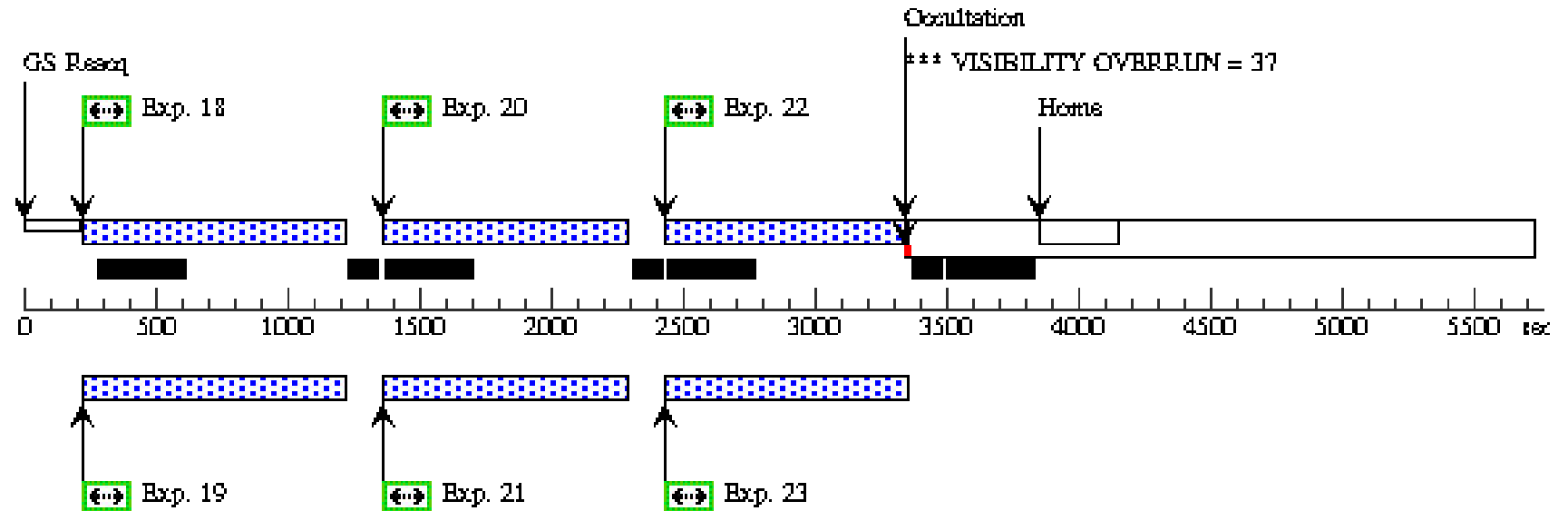
Orbit 3

Server Version: 20100505



Orbit 4

Server Version: 20100505



Proposal 11658 - Visit 09 - Probing the Outer Regions of M31 with QSO Absorption Lines

Thu Sep 09 01:17:44 GMT 2010

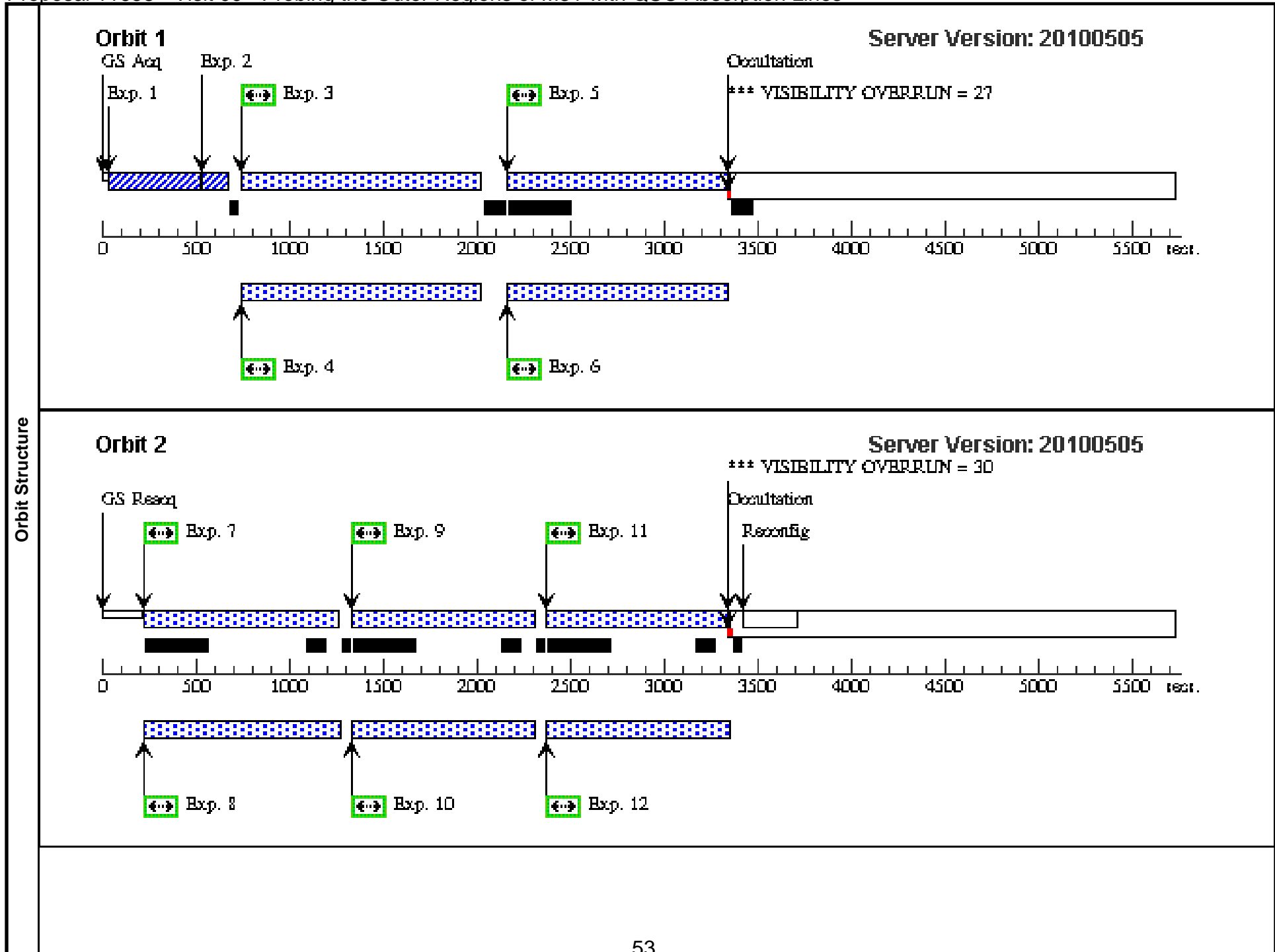
Visit	<p>Proposal 11658, Visit 10, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC, COS/NUV, COS/FUV</p> <p>Special Requirements: ORIENT 215.0D TO 235.0 D</p>																	
	Diagnostics	<p>(Visit 10) Warning (Orbit Planner): VISIBILITY OVERRUN</p> <p>(Visit 10) Warning (Orbit Planner): VISIBILITY OVERRUN</p> <p>(Visit 10) Warning (Orbit Planner): VISIBILITY OVERRUN</p> <p>(Visit 10) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS</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>(10)</td> <td>Q0046+4220</td> <td>RA: 00 46 55.5154 (11.7313142d) Dec: +42 20 50.08 (42.34724d) Equinox: J2000</td> <td>Redshift: 0.31</td> <td>V=18.07+/-0.05 u = 18.07, FUV=19.01, NUV=18.49</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(10)	Q0046+4220	RA: 00 46 55.5154 (11.7313142d) Dec: +42 20 50.08 (42.34724d) Equinox: J2000	Redshift: 0.31	V=18.07+/-0.05 u = 18.07, FUV=19.01, NUV=18.49
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(10)	Q0046+4220	RA: 00 46 55.5154 (11.7313142d) Dec: +42 20 50.08 (42.34724d) Equinox: J2000	Redshift: 0.31	V=18.07+/-0.05 u = 18.07, FUV=19.01, NUV=18.49	Reference Frame: ICRS													

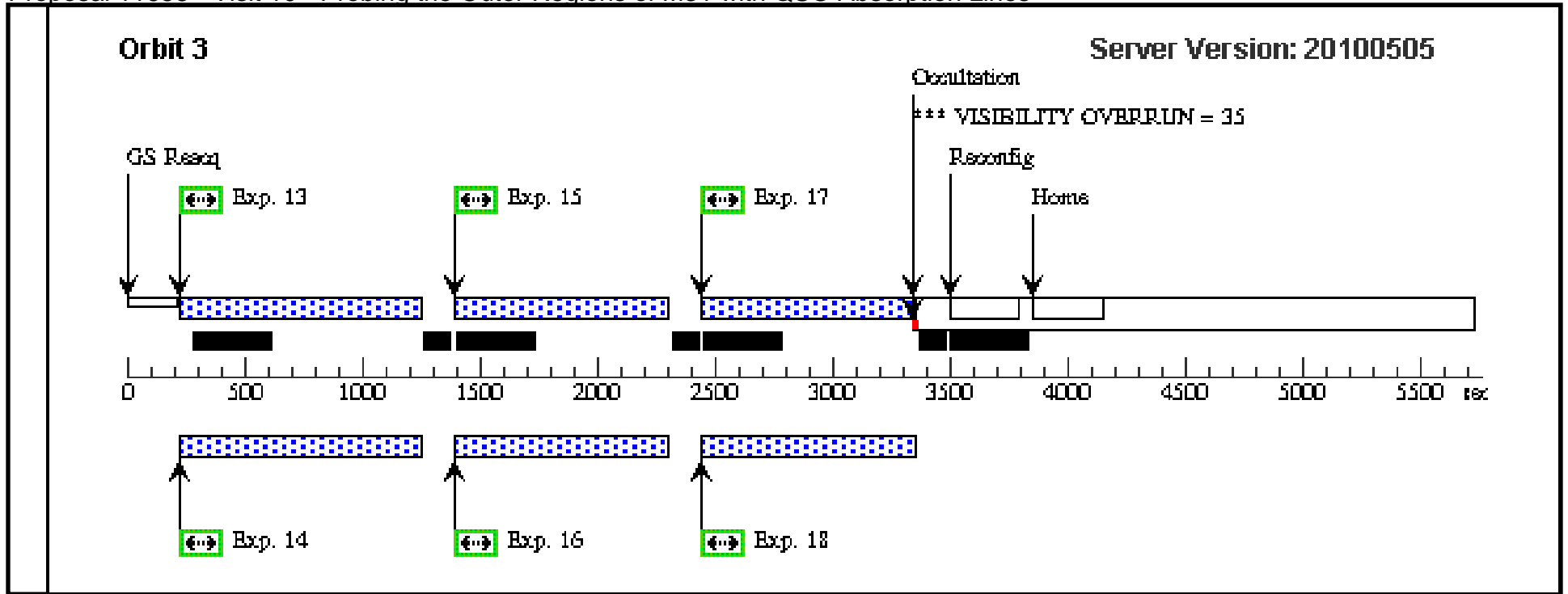
Proposal 11658 - Visit 09 - Probing the Outer Regions of M31 with QSO Absorption Lines

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	0046_acq_s earch	(10) Q0046+4220	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2; STEP-SIZE=1.767		11 Secs [==>]	[1]
	2	0046_acq_i mage	(10) Q0046+4220	COS/NUV, ACQ/IMAGE, PSA	MIRRORA			11 Secs [==>]	[1]
	3	0046_G230 L	(10) Q0046+4220	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=11 00; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 3-4	1100 Secs [==>1168.0 Secs]	[1]
	4	0046_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 3-4	900 Secs [==>1075.0 Secs]	[1]
	5	0046_G230 L	(10) Q0046+4220	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=11 00; FLASH=YES; FP-POS=4	Prime + Parallel Gro up 5-6	1100 Secs [==>1168.0 Secs]	[1]
	6	0046_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 5-6	900 Secs [==>1060.0 Secs]	[1]
	7	0046_G230 L	(10) Q0046+4220	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=80 0; FLASH=YES; FP-POS=1	Prime + Parallel Gro up 7-8	800 Secs [==>960.0 Secs]	[2]
	8	0046_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 7-8	700 Secs [==>923.0 Secs]	[2]
	9	0046_G230 L	(10) Q0046+4220	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=80 0; FLASH=YES; FP-POS=2	Prime + Parallel Gro up 9-10	800 Secs [==>960.0 Secs]	[2]
	10	0046_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 9-10	700 Secs [==>856.0 Secs]	[2]
	11	0046_G230 L	(10) Q0046+4220	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=80 0; FLASH=YES; FP-POS=3	Prime + Parallel Gro up 11-12	800 Secs [==>960.0 Secs]	[2]
	12	0046_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	Prime + Parallel Gro up 11-12	700 Secs [==>856.0 Secs]	[2]
	13	0046_G140 L	(10) Q0046+4220	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=85 0; FLASH=YES; FP-POS=1	Prime + Parallel Gro up 13-14	850 Secs [==>857.0 Secs]	[3]
	14	0046_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Gro up 13-14	500 Secs [==>853.0 Secs]	[3]
	15	0046_G140 L	(10) Q0046+4220	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=85 0; FLASH=YES; FP-POS=2	Prime + Parallel Gro up 15-16	850 Secs [==>857.0 Secs]	[3]
	16	0046_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Gro up 15-16	500 Secs [==>790.0 Secs]	[3]

Proposal 11658 - Visit 09 - Probing the Outer Regions of M31 with QSO Absorption Lines

17	0046_G140 L	(10) Q0046+4220	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=85 0; FLASH=YES; FP-POS=4	Prime + Parallel Group up 17-18	850 Secs	
							[==>857.0 Secs]	[3]
18	0046_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	Prime + Parallel Group up 17-18	500 Secs	
							[==>790.0 Secs]	[3]





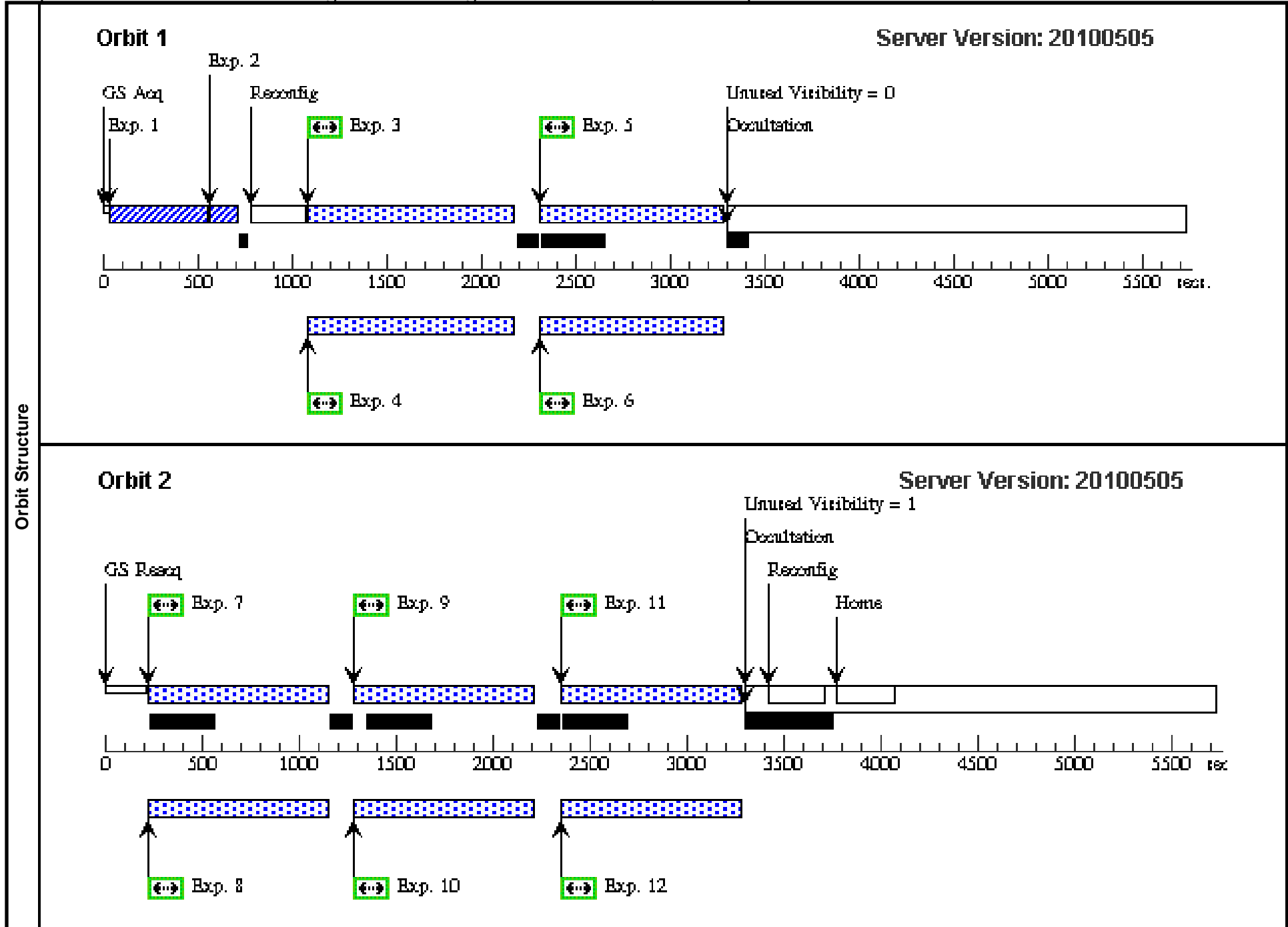
Proposal 11658 - Visit 10 - Probing the Outer Regions of M31 with QSO Absorption Lines

Thu Sep 09 01:17:45 GMT 2010

Visit	Proposal 11658, Visit 14 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, COS/NUV, COS/FUV Special Requirements: (none) <i>Comments: Repeat of orbits 2 and 3 of partially failed visit 04.</i> <i>Any orientation is acceptable for the parallel observations, but the orientation must remain the same for all exposures in this Visit.</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(4)		Q0031+3727	RA: 00 31 32.3702 (7.8848758d) Dec: +37 27 51.82 (37.46439d) Equinox: J2000	Redshift: 1.30	V=18.45+/-0.05 u = 18.50, FUV=19.73, NUV=19.09	Reference Frame: ICRS

Proposal 11658 - Visit 10 - Probing the Outer Regions of M31 with QSO Absorption Lines

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	0031_acq_s earch	(4) Q0031+3727	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2; STEP-SIZE=1.767			18 Secs [==>]	[1]
	2	0031_acq_i mage	(4) Q0031+3727	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				18 Secs [==>]	[1]
	3	0031_G140 L	(4) Q0031+3727	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=85 0; FLASH=YES; FP-POS=1		Prime + Parallel Gro up 3-4	850 Secs [==>916.0 Secs]	[1]
	4	0031_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 3-4	500 Secs [==>883.0 Secs]	[1]
	5	0031_G140 L	(4) Q0031+3727	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=85 0; FLASH=YES; FP-POS=2		Prime + Parallel Gro up 5-6	850 Secs [==>916.0 Secs]	[1]
	6	0031_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 5-6	600 Secs [==>847.0 Secs]	[1]
	7	0031_G140 L	(4) Q0031+3727	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=85 0; FLASH=YES; FP-POS=2		Prime + Parallel Gro up 7-8	850 Secs [==>874.0 Secs]	[2]
	8	0031_F814 W_par	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 7-8	600 Secs [==>802.0 Secs]	[2]
	9	0031_G140 L	(4) Q0031+3727	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=85 0; FLASH=YES; FP-POS=3		Prime + Parallel Gro up 9-10	850 Secs [==>874.0 Secs]	[2]
	10	0031_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO		Prime + Parallel Gro up 9-10	500 Secs [==>750.0 Secs]	[2]
	11	0031_G140 L	(4) Q0031+3727	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=85 0; FLASH=YES; FP-POS=4		Prime + Parallel Gro up 11-12	850 Secs [==>874.0 Secs]	[2]
12	0031_F606 W_par	ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO		Prime + Parallel Gro up 11-12	500 Secs [==>805.0 Secs]	[2]	



Orbit Structure