



10913 - The Light Echoes around V838 Monocerotis

Cycle: 15, 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) V838-MON-ECHO	ACS/WFC	4	06-Feb-2007 21:03:26.0	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>
03	(2) V838-MON-ECHO-COPY	WFPC2	4	06-Feb-2007 21:03:35.0	yes
04	(2) V838-MON-ECHO-COPY	WFPC2	4	06-Feb-2007 21:03:41.0	yes
05	(2) V838-MON-ECHO-COPY	WFPC2	4	06-Feb-2007 21:03:47.0	yes
06	(2) V838-MON-ECHO-COPY	WFPC2	4	06-Feb-2007 21:03:53.0	yes
07	(2) V838-MON-ECHO-COPY	WFPC2	4	06-Feb-2007 21:04:02.0	yes
08	(2) V838-MON-ECHO-COPY	WFPC2	4	06-Feb-2007 21:04:08.0	yes
09	(2) V838-MON-ECHO-COPY	WFPC2	4	06-Feb-2007 21:04:14.0	yes
10	(2) V838-MON-ECHO-COPY	WFPC2	4	06-Feb-2007 21:04:19.0	yes

36 Total Orbits Used

ABSTRACT

V838 Monocerotis, which burst upon the astronomical scene in early 2002, is a completely unanticipated new object. It underwent a large-amplitude and very luminous outburst, during which its spectrum remained that of an extremely cool supergiant. A rapidly evolving set of light echoes around V838 Mon was discovered soon after the outburst, and quickly became the most spectacular display of the phenomenon ever seen. These light echoes provide the means to accomplish four unique types of measurements based on continued HST imaging during the event: (1) Study effects of MHD turbulence at high resolution and in 3 dimensions; (2) Construct the first unambiguous and fully 3-D map of a circumstellar dust envelope in the Milky Way; (3) Study dust physics in a unique setting where the spectrum and light curve of the illumination, and the scattering angle, are unambiguously known; and (4) Determine the distance to V838 Mon through direct geometric techniques.

Because of the extreme rarity of light echoes, this is almost certainly the only opportunity to achieve such results during the lifetime of HST. We propose two visits during Cycle 15, in order to continue the mapping of the circumstellar dust and to achieve the other goals listed above.

OBSERVING DESCRIPTION

This program contains two visits, 4 orbits each, for imaging of the light echo around V838 Mon with the ACS/WFC. Images will be taken in V (F606W) and I (F814W). We will use a 3-point dither to remove the gap between the chips, with 2 exposures in each filter at each of the 3 points. The I exposures are always 2x409 sec at each dither position, and the V exposure times are then adjusted to fill each orbit. The total exposure times achieve the desired result of a ratio of 2.7 between the total V and total I exposure times, based on the average surface brightnesses seen in previous HST images of the light echo.

The two visits during Cycle 15 are placed as far apart as possible, at the beginning and end of the target visibility season. One visit will be in September 2006, and the other in February 2007.

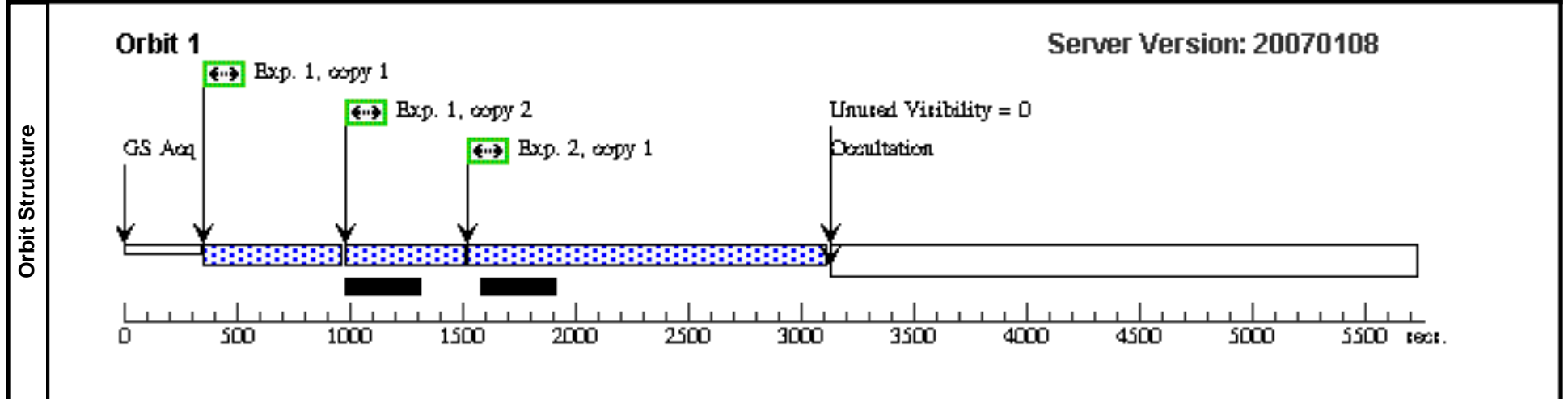
Proposal 10913 - Visit 01 - The Light Echoes around V838 Monocerotis

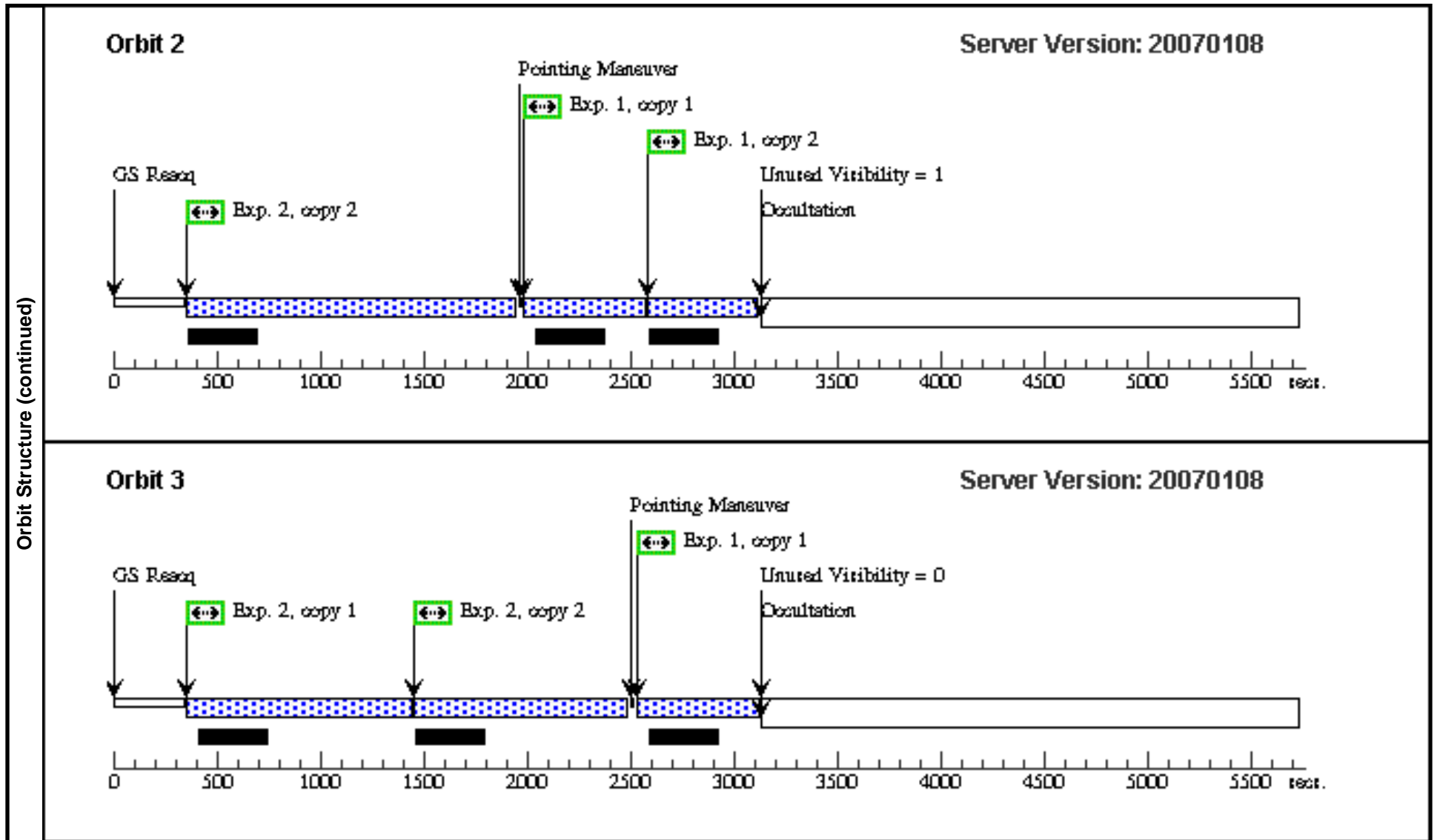
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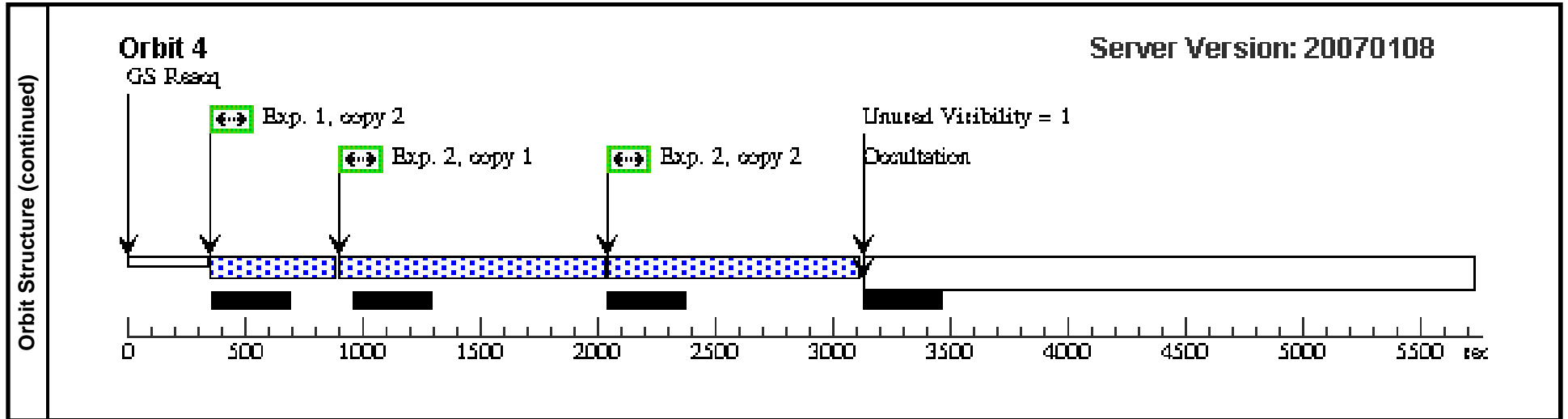
Visit	Proposal 10913, Visit 01, completed Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: PCS MODE FINE; BETWEEN 01-SEP-2006:00:00:00 AND 15-SEP-2006:00:00:00									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=2.994 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=true					(1-2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	V838-MON-ECHO	RA: 07 04 5.4000 (106.0225000d) Dec: -03 50 41.40 (-3.84483d) Equinox: J2000 <i>Comments: Geometric center of light echo, based on data from Cycle 14. 6/14/06: updated to ICRS reference frame, using galex website.</i>		V=15.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) V838-MON-EC HO	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Pattern 1-2 (1)	340.0 Secs X 2	
									[=>409.0 Secs (Pattern 1, Copy 1)]	[1]
									[=>409.0 Secs (Pattern 1, Copy 2)]	
									[=>409.0 Secs (Pattern 2, Copy 1)]	[2]
								[=>409.0 Secs (Pattern 2, Copy 2)]		
								[=>409.0 Secs (Pattern 3, Copy 1)]	[3]	
								[=>409.0 Secs (Pattern 3, Copy 2)]	[4]	

Proposal 10913 - Visit 01 - The Light Echoes around V838 Monocerotis

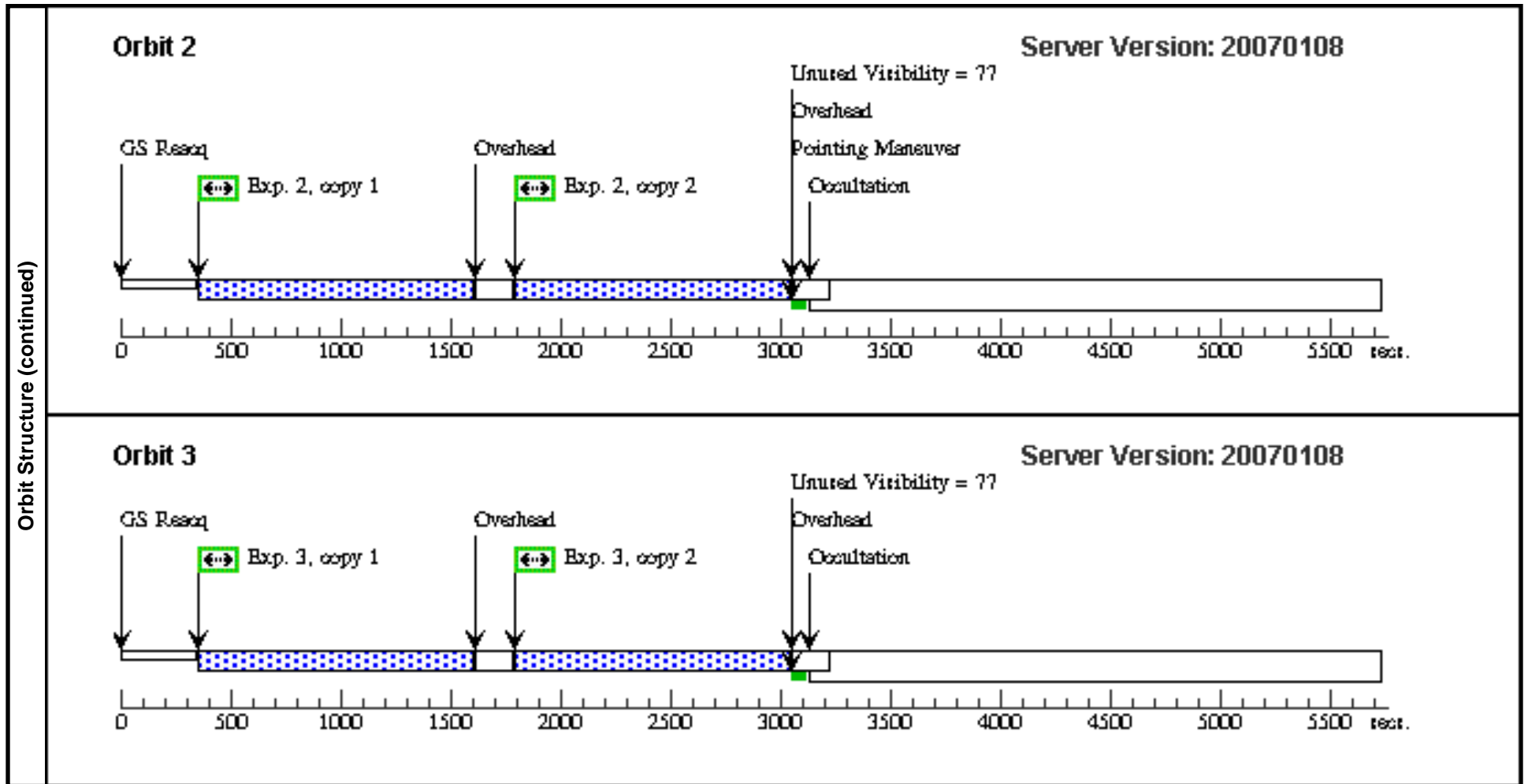
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2		(1) V838-MON-EC HO	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Pattern 1-2 (1)	925.0 Secs X 2	
								[==>1414.0 Secs (Pattern 1, Copy 1)]	[1]
								[==>1471.0 Secs (Pattern 1, Copy 2)]	[2]
								[==>913.0 Secs (Pattern 2, Copy 1)]	[3]
								[==>913.0 Secs (Pattern 2, Copy 2)]	
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[==>952.0 Secs (Pattern 3, Copy 2)]									

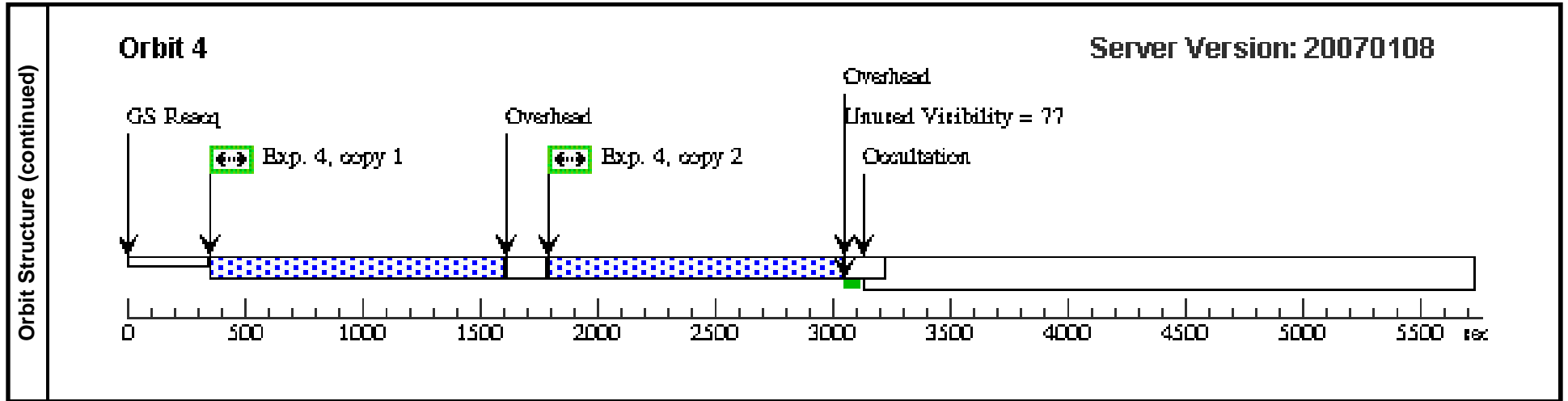




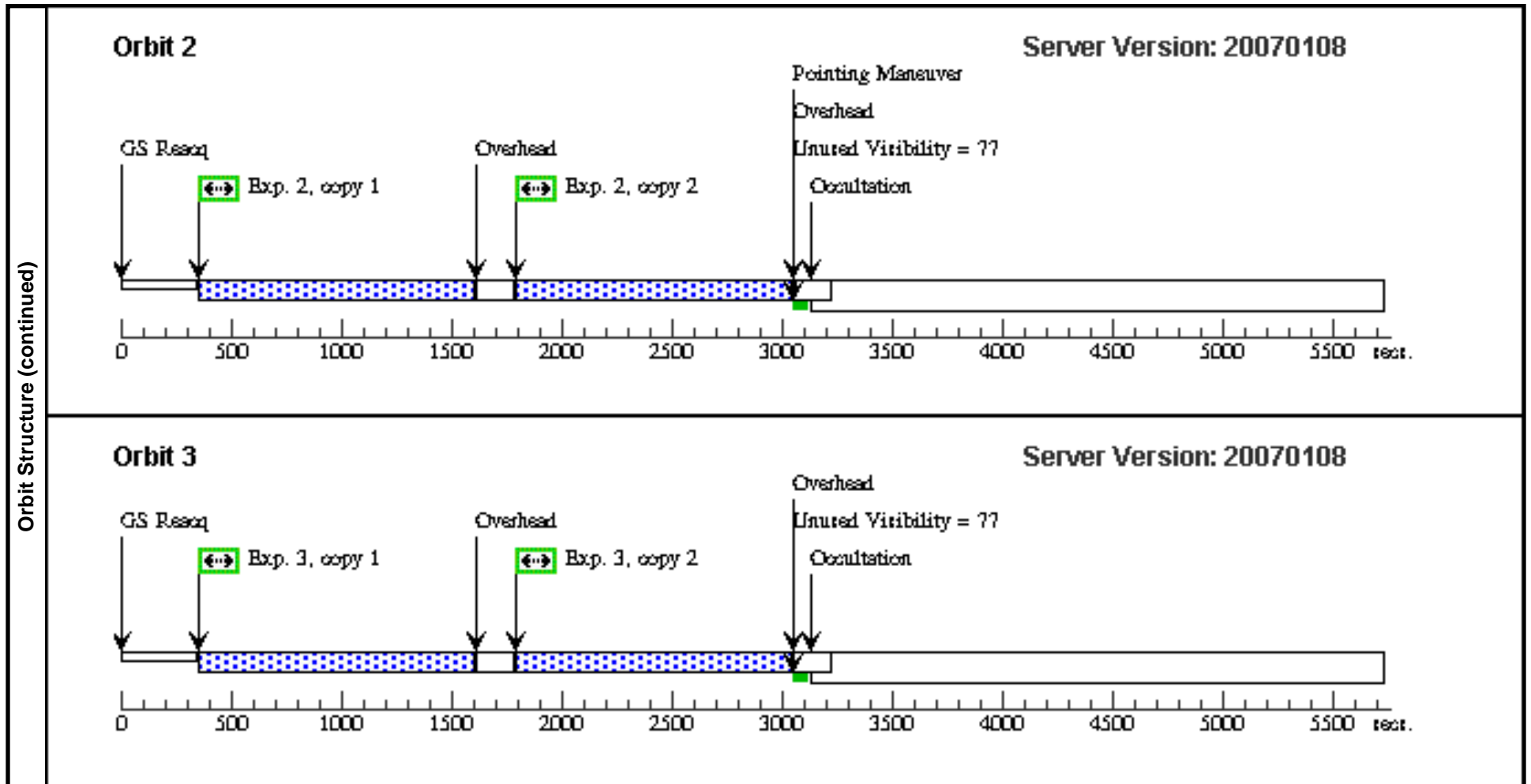


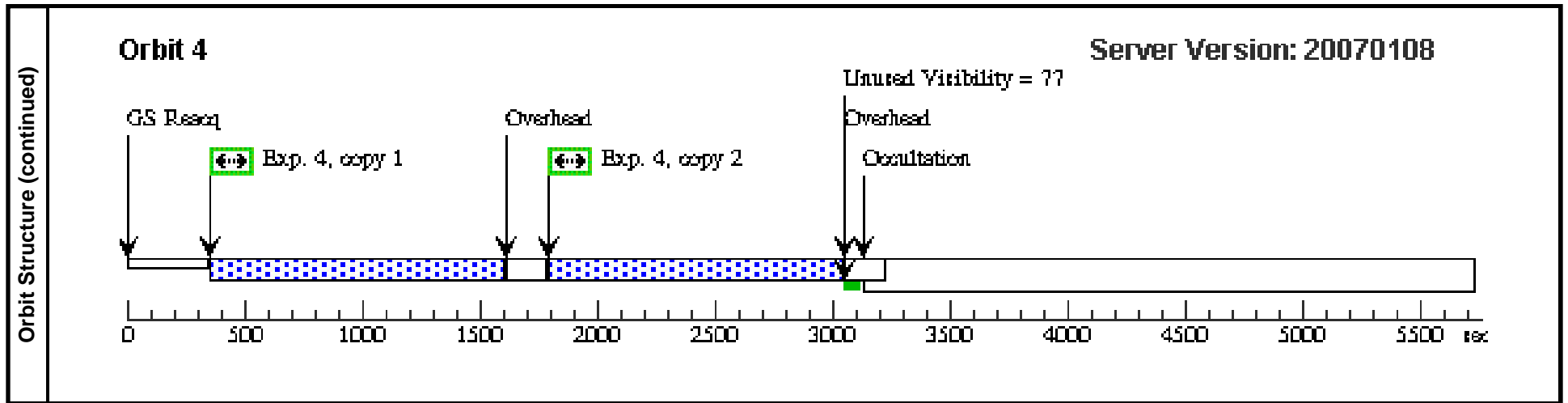
Visit	Proposal 10913, Visit 03, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BEFORE 01-MAR-2007:00:00:00										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
(2)		V838-MON-ECHO-COPY	RA: 07 04 5.8200 (106.0242500d) Dec: -03 50 40.00 (-3.84444d) Equinox: J2000		V=15.5	Reference Frame: ICRS					
Comments: Geometric center of light echo, based on data from Cycle 14. 6/14/06: updated to ICRS reference frame, using galax website.											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	(2) V838-MON-EC HO-COPY	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F606W	CR-SPLIT=NO	POS TARG 8.34,13.99		1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]	[1]	
	2	(2) V838-MON-EC HO-COPY	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F814W	CR-SPLIT=NO	POS TARG 8.34,13.99		1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]	[2]	
	3	(2) V838-MON-EC HO-COPY	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F606W	CR-SPLIT=NO	POS TARG 8.838,14.239		1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]	[3]	
	4	(2) V838-MON-EC HO-COPY	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F814W	CR-SPLIT=NO	POS TARG 8.838,14.239		1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]	[4]	
Orbit Structure	<div style="display: flex; justify-content: space-between;"> Orbit 1 Server Version: 20070108 </div> <p>The diagram illustrates the timing of observations within an orbit. The x-axis represents time in seconds, ranging from 0 to 5500. Key events are marked: GS Acq at 0s, Exps. 1, copy 1 (green box) at approximately 400s, Exps. 1, copy 2 (green box) at approximately 1800s, Occultation at approximately 3100s, and Unused Visibility at approximately 3200s. Overhead periods are indicated by arrows above the timeline.</p>										



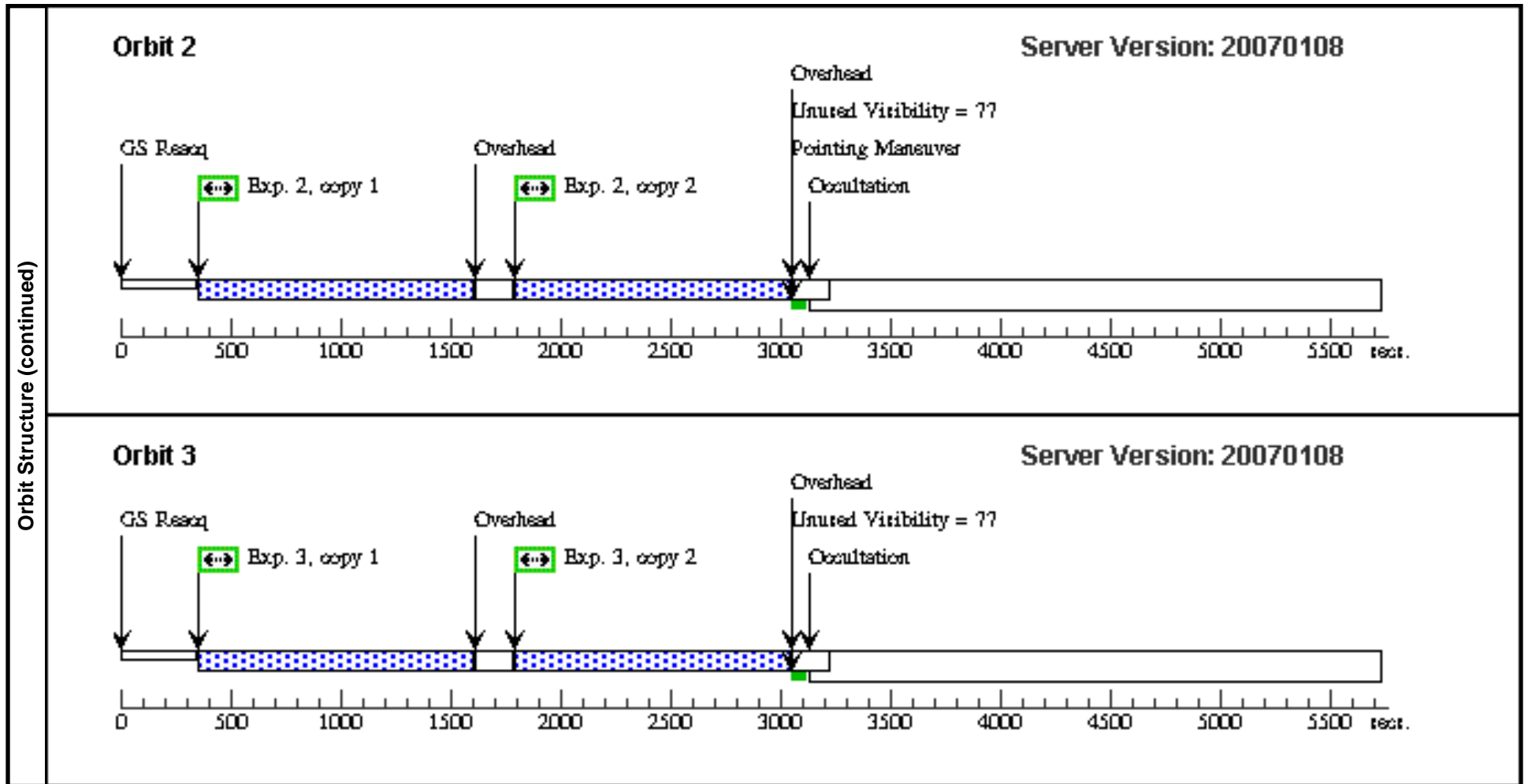


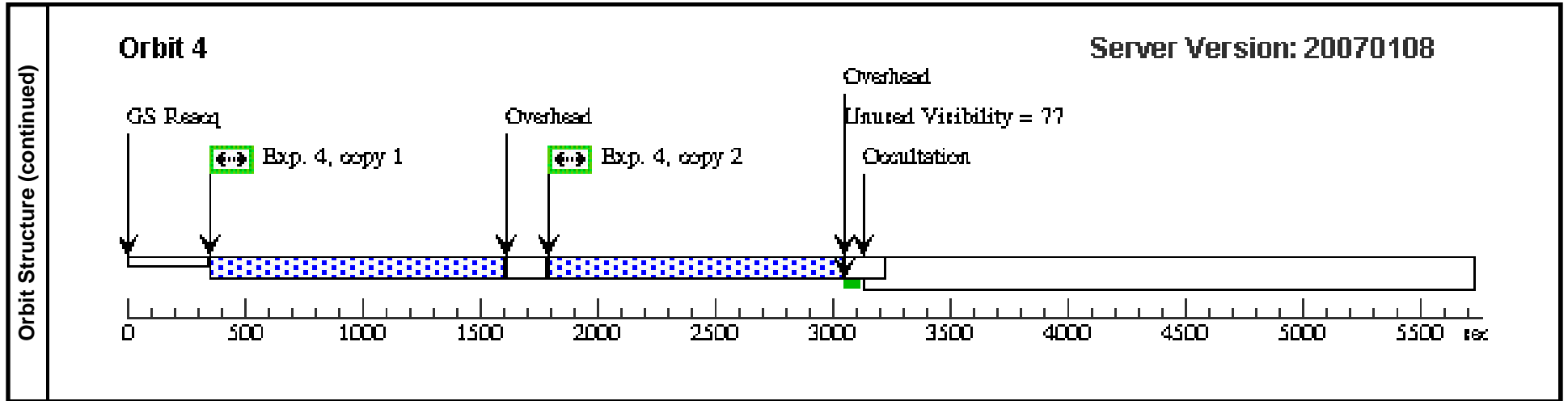
Visit	Proposal 10913, Visit 04, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BEFORE 01-MAR-2007:00:00:00										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
(2)		V838-MON-ECHO-COPY	RA: 07 04 5.8200 (106.0242500d) Dec: -03 50 40.00 (-3.84444d) Equinox: J2000		V=15.5	Reference Frame: ICRS					
Comments: Geometric center of light echo, based on data from Cycle 14. 6/14/06: updated to ICRS reference frame, using galax website.											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	(2) V838-MON-EC HO-COPY	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F606W	CR-SPLIT=NO	POS TARG 9.087,14 .737		1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]	[1]	
	2	(2) V838-MON-EC HO-COPY	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F814W	CR-SPLIT=NO	POS TARG 9.087,14 .737		1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]	[2]	
	3	(2) V838-MON-EC HO-COPY	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F606W	CR-SPLIT=NO	POS TARG 8.589,14 .488		1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]	[3]	
	4	(2) V838-MON-EC HO-COPY	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F814W	CR-SPLIT=NO	POS TARG 8.589,14 .488		1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]	[4]	
Orbit Structure	<div style="display: flex; justify-content: space-between;"> Orbit 1 Server Version: 20070108 </div> <p>Unused Visibility = ??</p> <p>GS Acq</p> <p>Exps. 1, copy 1</p> <p>Overhead</p> <p>Exps. 1, copy 2</p> <p>Overhead</p> <p>Occultation</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec.</p>										



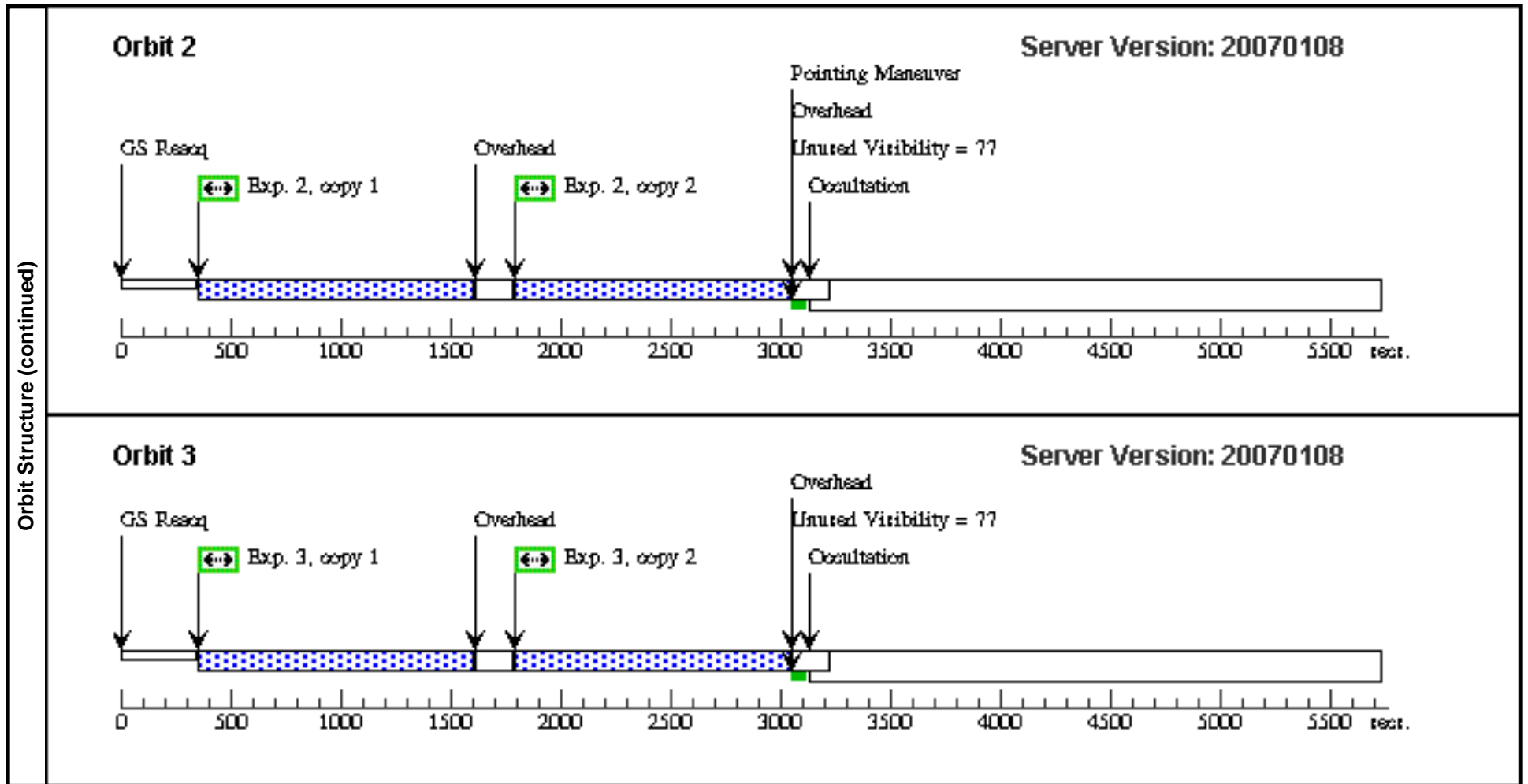


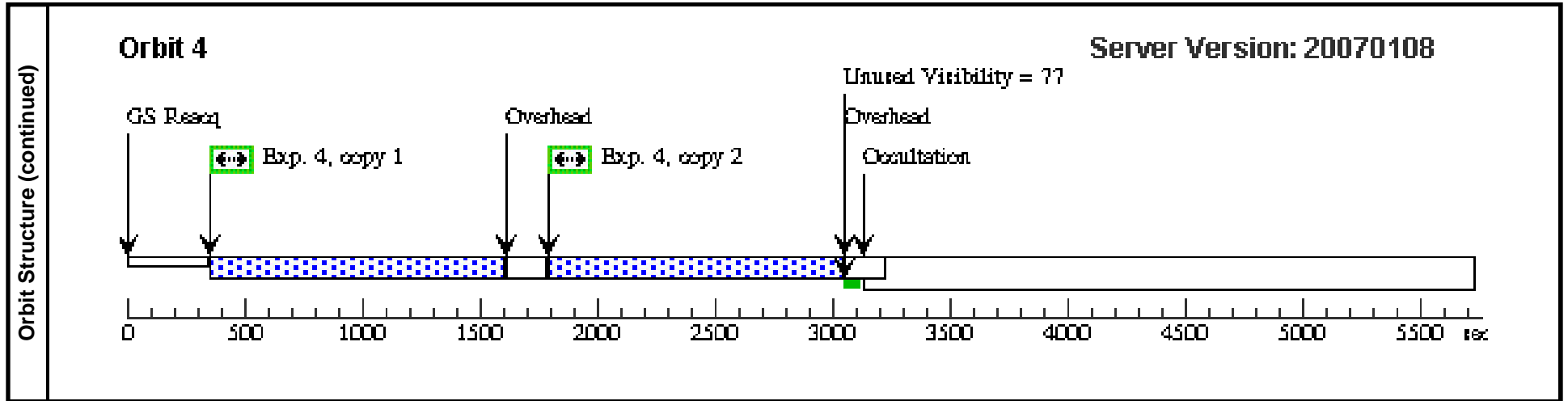
Visit	Proposal 10913, Visit 05, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BEFORE 01-MAR-2007:00:00:00									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
(2)		V838-MON-ECHO-COPY	RA: 07 04 5.8200 (106.0242500d) Dec: -03 50 40.00 (-3.84444d) Equinox: J2000		V=15.5	Reference Frame: ICRS				
Comments: Geometric center of light echo, based on data from Cycle 14. 6/14/06: updated to ICRS reference frame, using galax website.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(2) V838-MON-EC HO-COPY	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F606W	CR-SPLIT=NO	POS TARG -66.36,1 3.99		1100.0 Secs X 2 [==>(Copy 1)] [==>(Copy 2)]	[1]
	2	(2) V838-MON-EC HO-COPY	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F814W	CR-SPLIT=NO	POS TARG -66.36,1 3.99		1100.0 Secs X 2 [==>(Copy 1)] [==>(Copy 2)]	[2]
	3	(2) V838-MON-EC HO-COPY	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F606W	CR-SPLIT=NO	POS TARG -65.862, 14.239		1100.0 Secs X 2 [==>(Copy 1)] [==>(Copy 2)]	[3]
	4	(2) V838-MON-EC HO-COPY	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F814W	CR-SPLIT=NO	POS TARG -65.862, 14.239		1100.0 Secs X 2 [==>(Copy 1)] [==>(Copy 2)]	[4]
Orbit Structure	<div style="display: flex; justify-content: space-between;"> Orbit 1 Server Version: 20070108 </div> <p>Timeline labels: GS Acq, Expt. 1, copy 1, Overhead, Expt. 1, copy 2, Occultation, Unused Visibility = ??</p> <p>X-axis: 0, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500 sec.</p>									





Visit	Proposal 10913, Visit 06, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BEFORE 01-MAR-2007:00:00:00										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
(2)		V838-MON-ECHO-COPY	RA: 07 04 5.8200 (106.0242500d) Dec: -03 50 40.00 (-3.84444d) Equinox: J2000		V=15.5	Reference Frame: ICRS					
Comments: Geometric center of light echo, based on data from Cycle 14. 6/14/06: updated to ICRS reference frame, using galax website.											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	(2) V838-MON-EC HO-COPY	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F606W	CR-SPLIT=NO	POS TARG -65.613, 14.737		1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]	[1]	
	2	(2) V838-MON-EC HO-COPY	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F814W	CR-SPLIT=NO	POS TARG -65.613, 14.737		1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]	[2]	
	3	(2) V838-MON-EC HO-COPY	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F606W	CR-SPLIT=NO	POS TARG -66.111, 14.488		1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]	[3]	
	4	(2) V838-MON-EC HO-COPY	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F814W	CR-SPLIT=NO	POS TARG -66.111, 14.488		1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]	[4]	
Orbit Structure	<div style="display: flex; justify-content: space-between;"> Orbit 1 Server Version: 20070108 </div> <p>The diagram illustrates the timing of observations within an orbit. The x-axis represents time in seconds, ranging from 0 to 5500. Key events are marked: GS Acq at 0s, Expt. 1, copy 1 (green box) at approximately 400s, Expt. 1, copy 2 (green box) at approximately 1800s, and Occultation at approximately 3100s. Overhead periods are indicated above the timeline. A note states 'Unused Visibility = ??'.</p>										

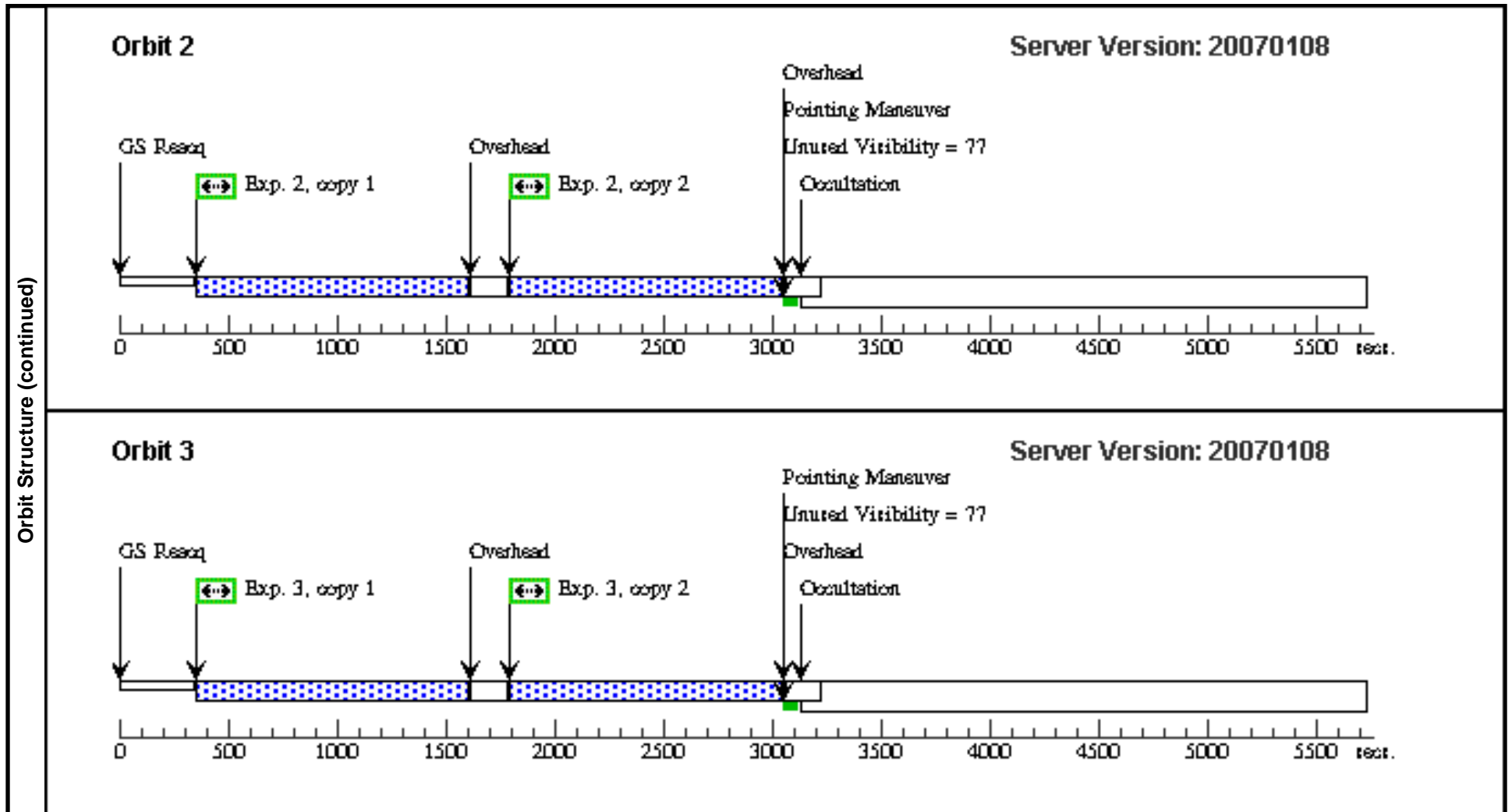


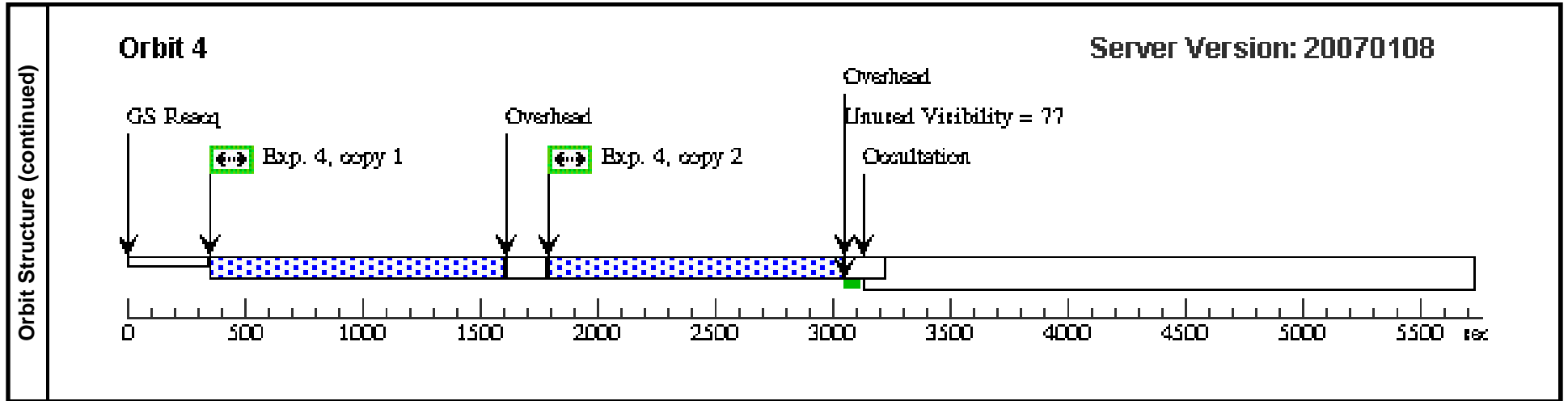


Proposal 10913 - Visit 07 - The Light Echoes around V838 Monocerotis

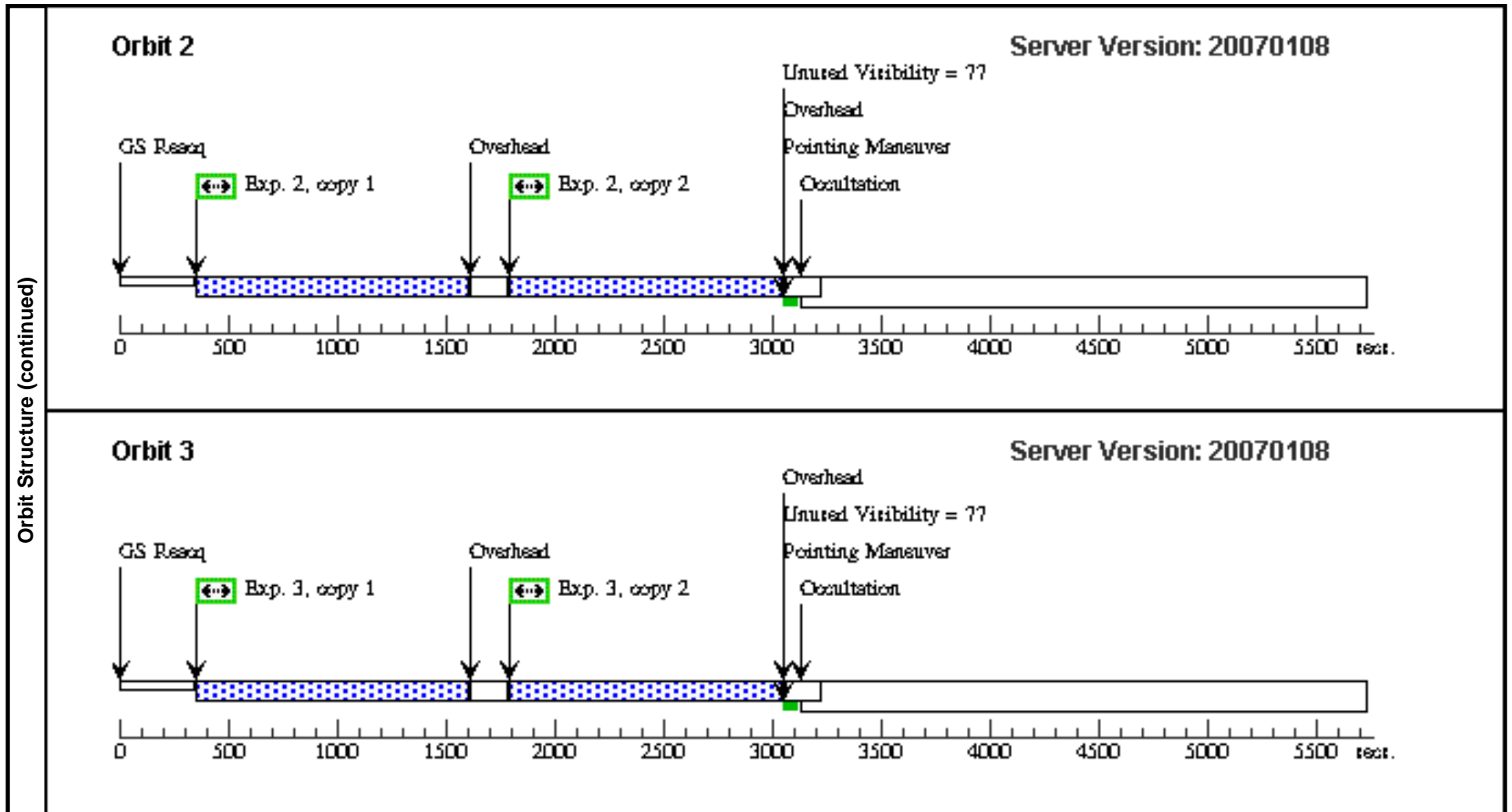
Wed Feb 07 02:04:28 GMT 2007

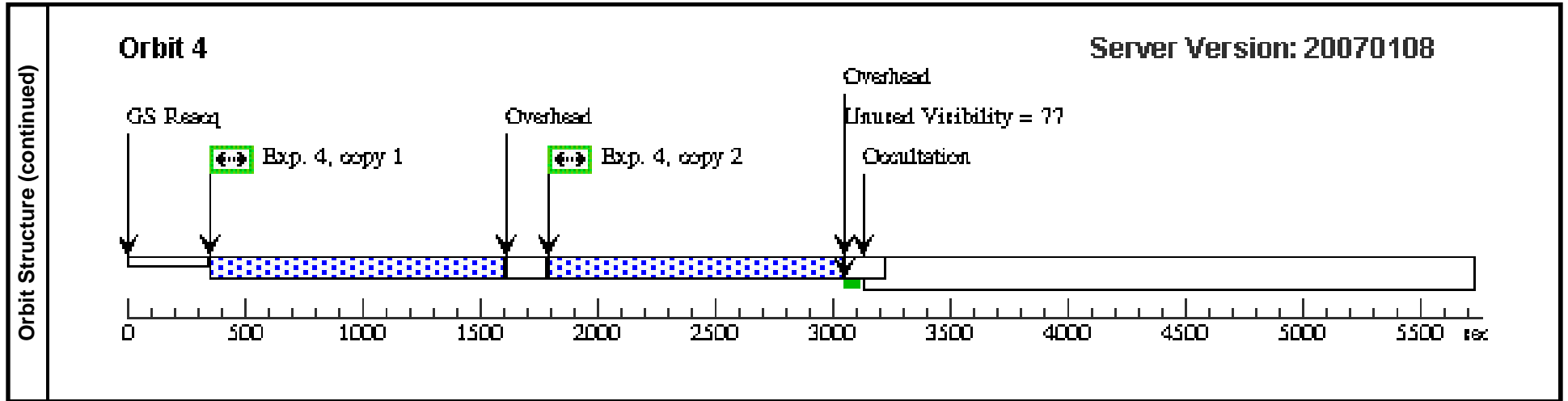
Visit	Proposal 10913, Visit 07, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BEFORE 01-MAR-2007:00:00:00																																														
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>V838-MON-ECHO-COPY</td> <td>RA: 07 04 5.8200 (106.0242500d) Dec: -03 50 40.00 (-3.84444d) Equinox: J2000</td> <td></td> <td>V=15.5</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Geometric center of light echo, based on data from Cycle 14. 6/14/06: updated to ICRS reference frame, using galax website.</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	V838-MON-ECHO-COPY	RA: 07 04 5.8200 (106.0242500d) Dec: -03 50 40.00 (-3.84444d) Equinox: J2000		V=15.5	Reference Frame: ICRS																																	
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Exposures	<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>(2) V838-MON-EC HO-COPY</td> <td>WFPC2, IMAGE, WFALL-FIX</td> <td>F606W</td> <td>CR-SPLIT=NO</td> <td>POS TARG 8.34,13.99</td> <td>1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]</td> <td></td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(2) V838-MON-EC HO-COPY</td> <td>WFPC2, IMAGE, WFALL-FIX</td> <td>F606W</td> <td>CR-SPLIT=NO</td> <td>POS TARG 8.838,14.239</td> <td>1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]</td> <td></td> <td>[2]</td> </tr> <tr> <td>3</td> <td>(2) V838-MON-EC HO-COPY</td> <td>WFPC2, IMAGE, WFALL-FIX</td> <td>F606W</td> <td>CR-SPLIT=NO</td> <td>POS TARG 9.087,14.737</td> <td>1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]</td> <td></td> <td>[3]</td> </tr> <tr> <td>4</td> <td>(2) V838-MON-EC HO-COPY</td> <td>WFPC2, IMAGE, WFALL-FIX</td> <td>F606W</td> <td>CR-SPLIT=NO</td> <td>POS TARG 8.589,14.488</td> <td>1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]</td> <td></td> <td>[4]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F606W	CR-SPLIT=NO	POS TARG 8.34,13.99	1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]		[1]	2	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F606W	CR-SPLIT=NO	POS TARG 8.838,14.239	1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]		[2]	3	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F606W	CR-SPLIT=NO	POS TARG 9.087,14.737	1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]		[3]	4	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F606W	CR-SPLIT=NO	POS TARG 8.589,14.488	1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]		[4]
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	3	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F606W	CR-SPLIT=NO	POS TARG 9.087,14.737	1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]		[3]																																						
4	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F606W	CR-SPLIT=NO	POS TARG 8.589,14.488	1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]		[4]																																							
Orbit Structure	<p>Orbit 1 Server Version: 20070108</p>																																														





Visit	Proposal 10913, Visit 08, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 07; BEFORE 01-MAR-2007:00:00:00																																																		
	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>(2)</td> <td>V838-MON-ECHO-COPY</td> <td>RA: 07 04 5.8200 (106.0242500d) Dec: -03 50 40.00 (-3.84444d) Equinox: J2000</td> <td></td> <td>V=15.5</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Geometric center of light echo, based on data from Cycle 14. 6/14/06: updated to ICRS reference frame, using galax website.</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	V838-MON-ECHO-COPY	RA: 07 04 5.8200 (106.0242500d) Dec: -03 50 40.00 (-3.84444d) Equinox: J2000		V=15.5	Reference Frame: ICRS																																					
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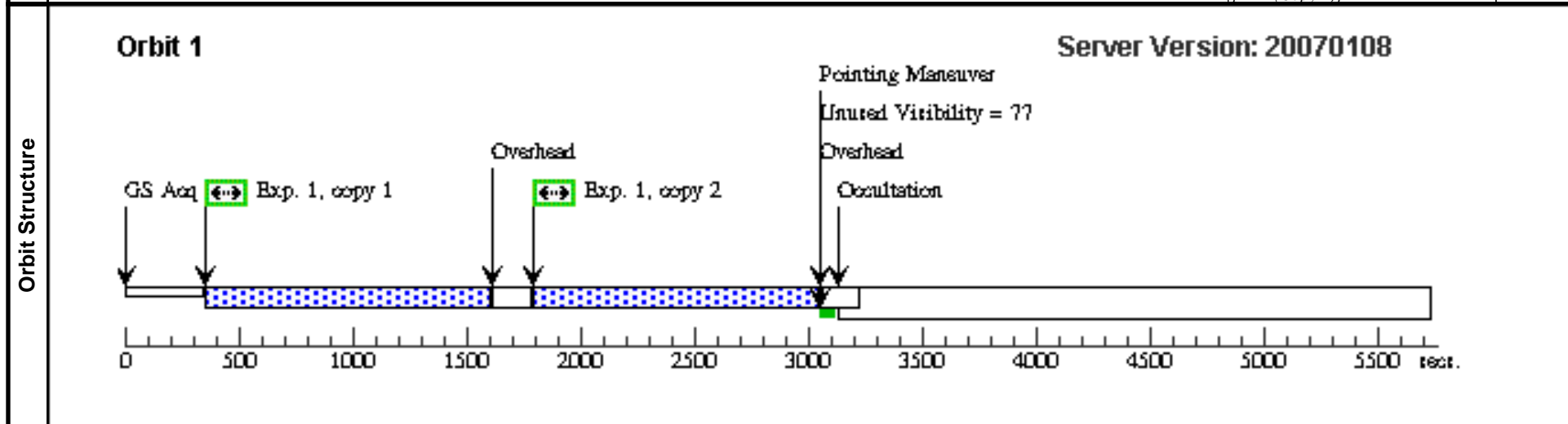


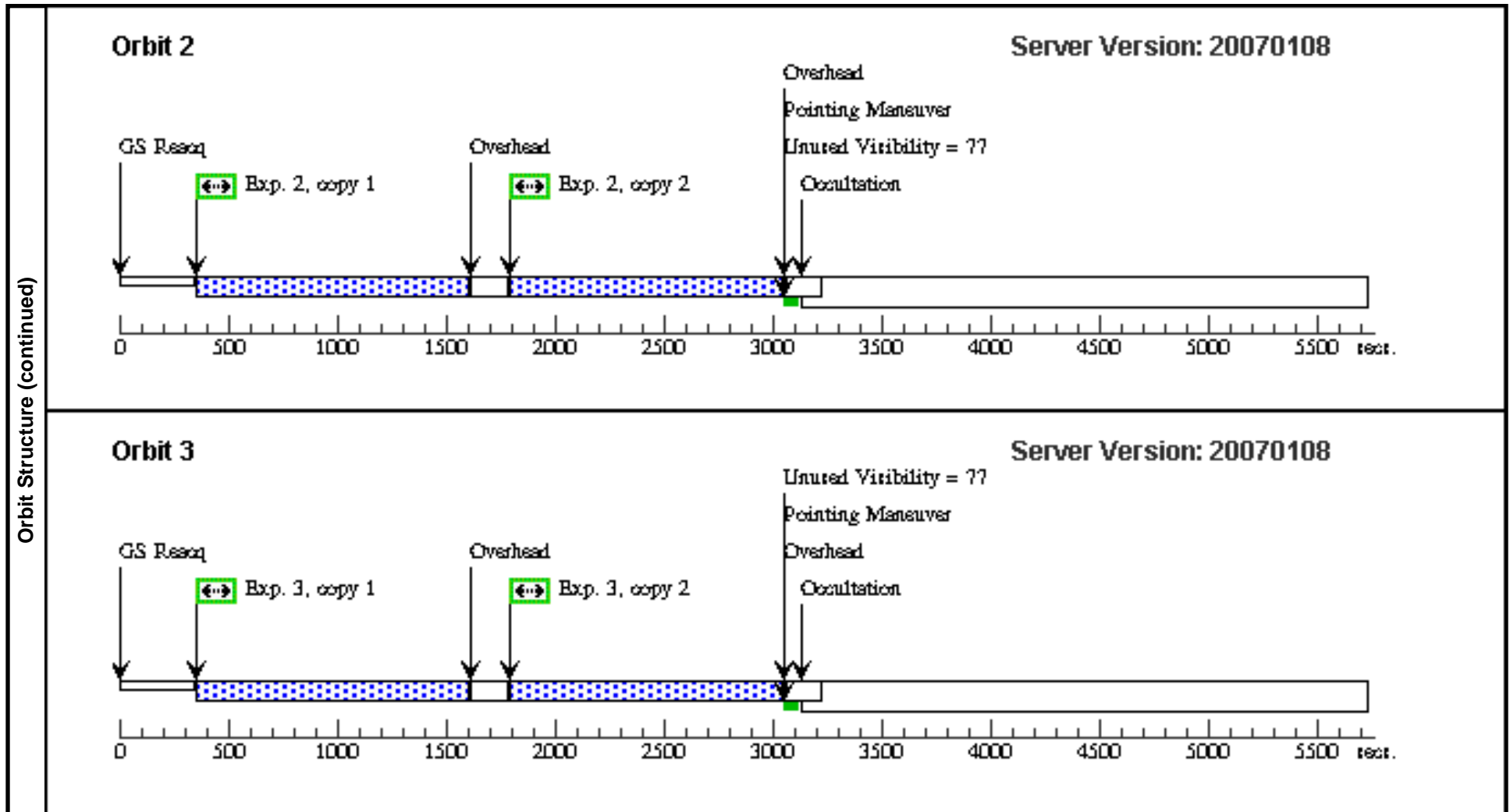
Visit	Proposal 10913, Visit 09, withdrawn				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFPC2				
	Special Requirements: BEFORE 01-MAR-2007:00:00:00				

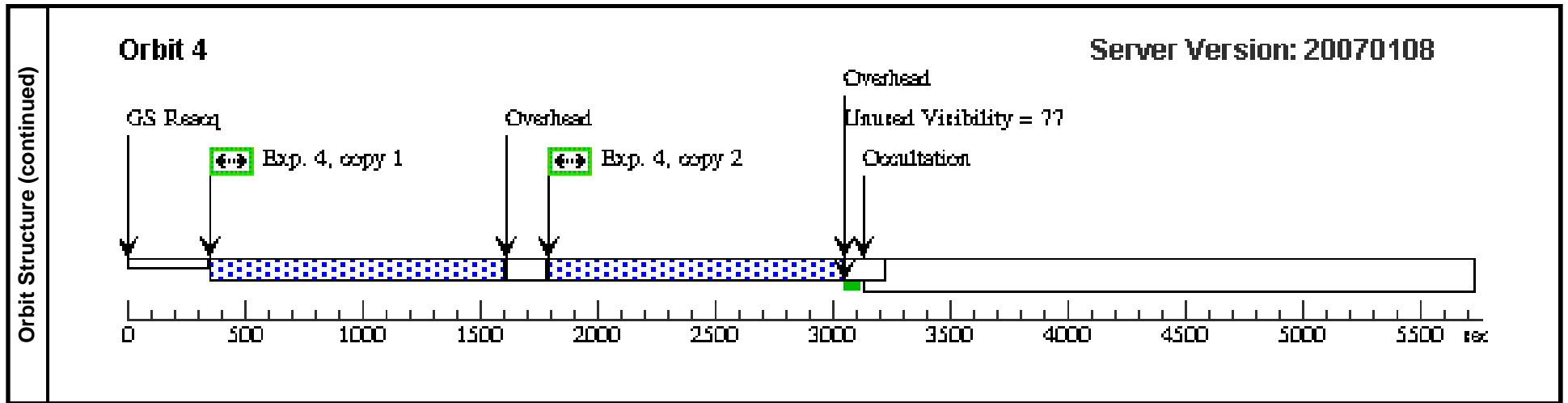
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	V838-MON-ECHO-COPY	RA: 07 04 5.8200 (106.0242500d) Dec: -03 50 40.00 (-3.84444d) Equinox: J2000		V=15.5	Reference Frame: ICRS

Comments: Geometric center of light echo, based on data from Cycle 14. 6/14/06: updated to ICRS reference frame, using galax website.

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		1	(2) V838-MON-EC HO-COPY	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F814W	CR-SPLIT=NO	POS TARG 8.34,13.99		1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]
2		(2) V838-MON-EC HO-COPY	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F814W	CR-SPLIT=NO	POS TARG 8.838,14.239		1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]	[2]
3		(2) V838-MON-EC HO-COPY	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F814W	CR-SPLIT=NO	POS TARG 9.087,14.737		1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]	[3]
4		(2) V838-MON-EC HO-COPY	(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F814W	CR-SPLIT=NO	POS TARG 8.589,14.488		1100.0 Secs X 2 [=>(Copy 1)] [=>(Copy 2)]	[4]







Proposal 10913 - Visit 10 - The Light Echoes around V838 Monocerotis

Wed Feb 07 02:04:30 GMT 2007

Visit	Proposal 10913, Visit 10, withdrawn				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFPC2				
	Special Requirements: SAME ORIENT AS 09; BEFORE 01-MAR-2007:00:00:00				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	V838-MON-ECHO-COPY	RA: 07 04 5.8200 (106.0242500d) Dec: -03 50 40.00 (-3.84444d) Equinox: J2000		V=15.5	Reference Frame: ICRS

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[=>(Copy 1)]										
2		(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F814W	CR-SPLIT=NO	POS TARG -65.862, 14.239			1100.0 Secs X 2	[2]
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3		(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F814W	CR-SPLIT=NO	POS TARG -65.613, 14.737			1100.0 Secs X 2	[3]
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4		(2) V838-MON-EC HO-COPY	WFPC2, IMAGE, WFALL-FIX	F814W	CR-SPLIT=NO	POS TARG -66.111, 14.488			1100.0 Secs X 2	[4]
									[=>(Copy 1)]	

