



10818 - Very Young Globular Clusters in M31 ?

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>
21	(21) M31-B347	WFPC2	1	13-Aug-2007 21:01:13.0	yes
23	(21) M31-B347	WFPC2	1	13-Aug-2007 21:01:17.0	yes
20	(20) M31-B448	WFPC2	1	13-Aug-2007 21:01:20.0	yes

Proposal 10818 (STScI Edit Number: 6, Created: Monday, August 13, 2007 8:02:10 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>
01	(1) M31GC-B195D	WFPC2	1	13-Aug-2007 21:01:22.0	yes
02	(2) M31-B318	WFPC2	1	13-Aug-2007 21:01:24.0	yes
03	(3) M31GC-B327	WFPC2	1	13-Aug-2007 21:01:27.0	yes
04	(4) M31GC-VDB0	WFPC2	1	13-Aug-2007 21:01:29.0	yes
05	(5) M31GC-B040	WFPC2	1	13-Aug-2007 21:01:32.0	yes
06	(6) M31GC-B043	WFPC2	1	13-Aug-2007 21:01:34.0	yes
22	(6) M31GC-B043	WFPC2	1	13-Aug-2007 21:01:36.0	yes
07	(7) M31GC-B374	WFPC2	1	13-Aug-2007 21:01:38.0	yes
08	(8) M31GC-B376	WFPC2	1	13-Aug-2007 21:01:41.0	yes
09	(9) M31GC-B475	WFPC2	1	13-Aug-2007 21:01:43.0	yes
10	(10) M31GC-B257D	WFPC2	1	13-Aug-2007 21:01:45.0	yes
11	(11) M31GC-NB67	WFPC2	1	13-Aug-2007 21:01:47.0	yes
12	(12) M31GC-NB16	WFPC2	1	13-Aug-2007 21:01:49.0	yes
13	(13) M31GC-V031	WFPC2	1	13-Aug-2007 21:01:51.0	yes
14	(14) M31GC-B015D	WFPC2	1	13-Aug-2007 21:01:54.0	yes
15	(15) M31-B321	WFPC2	1	13-Aug-2007 21:01:56.0	yes
16	(16) M31-B066	WFPC2	1	13-Aug-2007 21:01:58.0	yes
24	(16) M31-B066	WFPC2	1	13-Aug-2007 21:02:00.0	yes
17	(17) M31-B081	WFPC2	1	13-Aug-2007 21:02:02.0	yes
18	(18) M31-B222	WFPC2	1	13-Aug-2007 21:02:04.0	yes
19	(19) M31-B083	WFPC2	1	13-Aug-2007 21:02:06.0	yes
25	(19) M31-B083	WFPC2	1	13-Aug-2007 21:02:08.0	yes

25 Total Orbits Used

ABSTRACT

We propose to use HST's unique high spatial resolution imaging capabilities to conclusively confirm or refute the presence of alleged very young globular clusters in M31. Such young globular clusters with ages < 3 Gyr are not present in our galaxy, and, if real, would lead to a striking difference in the age distribution of the GCs between M31 and the Milky Way. If the apparent presence of very young globular clusters in M31 is confirmed through our proposed ACS imaging (now WFPC2 imaging) with HST, this would suggest major differences in the history of assembly of the two galaxies, with probable substantial late accretion into M31 which did not occur in our own galaxy.

OBSERVING DESCRIPTION

Restricting ourselves to the prime range $B-V < 0.7$ mag requires acquiring high spatial resolution of 41 candidate young GCs in M31. In our original phase II submission we looked for pairs of candidates closer than 2 arcmin among these, and found several such cases. However, the present submission represents a rework of the original one now that our program has been shifted, following the failure of ACS, to imaging with WFPC2. This means that we are now using a mode of 1 orbit/candidate with imaging in 2 filters with WFPC2.

We select candidate young globular clusters in M31 more than 3 deg off the disk of this galaxy and with integrated $V < 17.5$ mag as our targets. We use filters F450W and F814W as they are broad band and efficient, hence short exposures will reach reasonable depths, and the wide separation of the pair in wavelength will make the detection of the stellar evolutionary isochrone sequence expected in these clusters easier. Furthermore, F450W more or less corresponds to the standard Johnson B, while F814W is a surrogate for an I filter. Thus comparison with the extensive grids of models and existing ground based data will be straightforward, and we will at least be able to

establish the presence or absence of stars more luminous than the normal RGB tip.

Changing from ACS to WFPC2 imaging, we will use all of our 21 allocated orbits for our short exposure survey of suspected very young GCs in M31. We use the planetary camera (pointing origin at its center, i.e. PC1) for all exposures to maximize the spatial resolution. The candidate young globular clusters have typical sizes of 5 to 8 arcsec, so they will fit nicely within the PC chip of WFPC2.

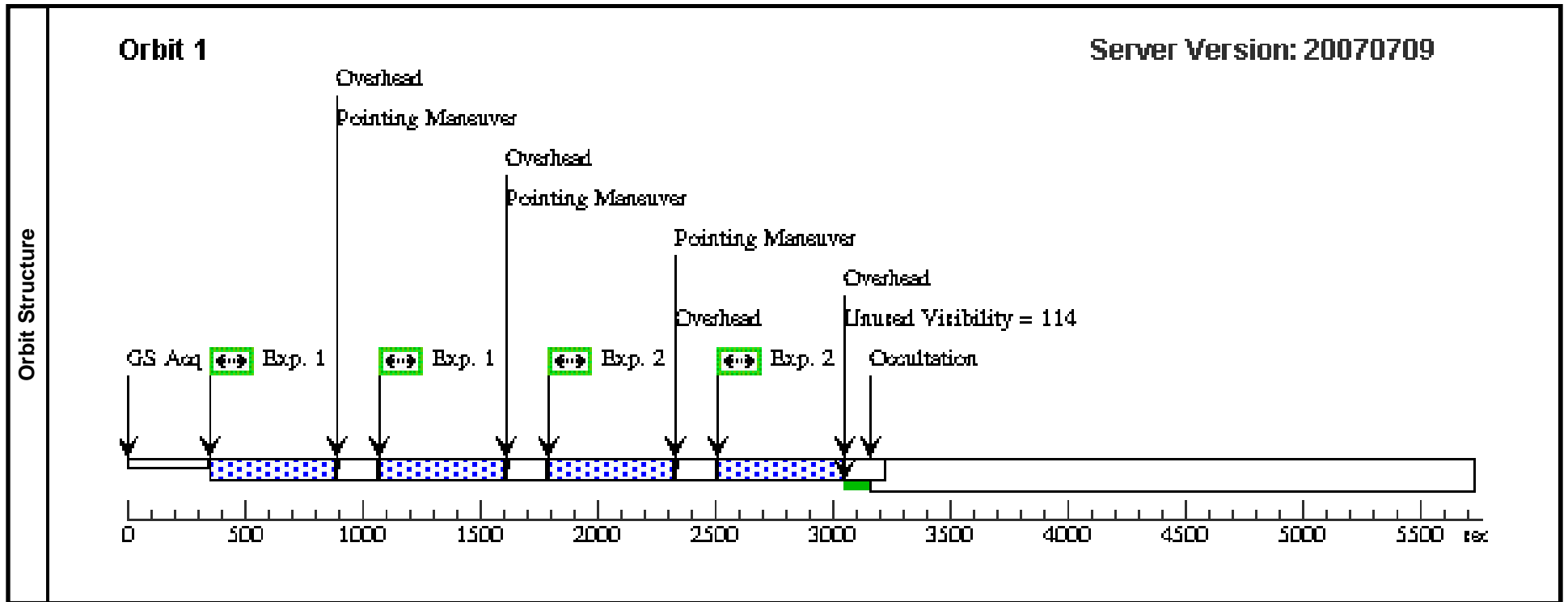
We have no requirements regarding image orientation, so we expect that we are not imposing any serious constraints on when image acquisition can occur.

Our targets are all within a small solid angle on the sky. Figure 2.2 of the HST Two-Gyro Handbook suggests that they will be accessible more than 130 days/year.

Proposal 10818 - Visit 21 - Very Young Globular Clusters in M31 ?

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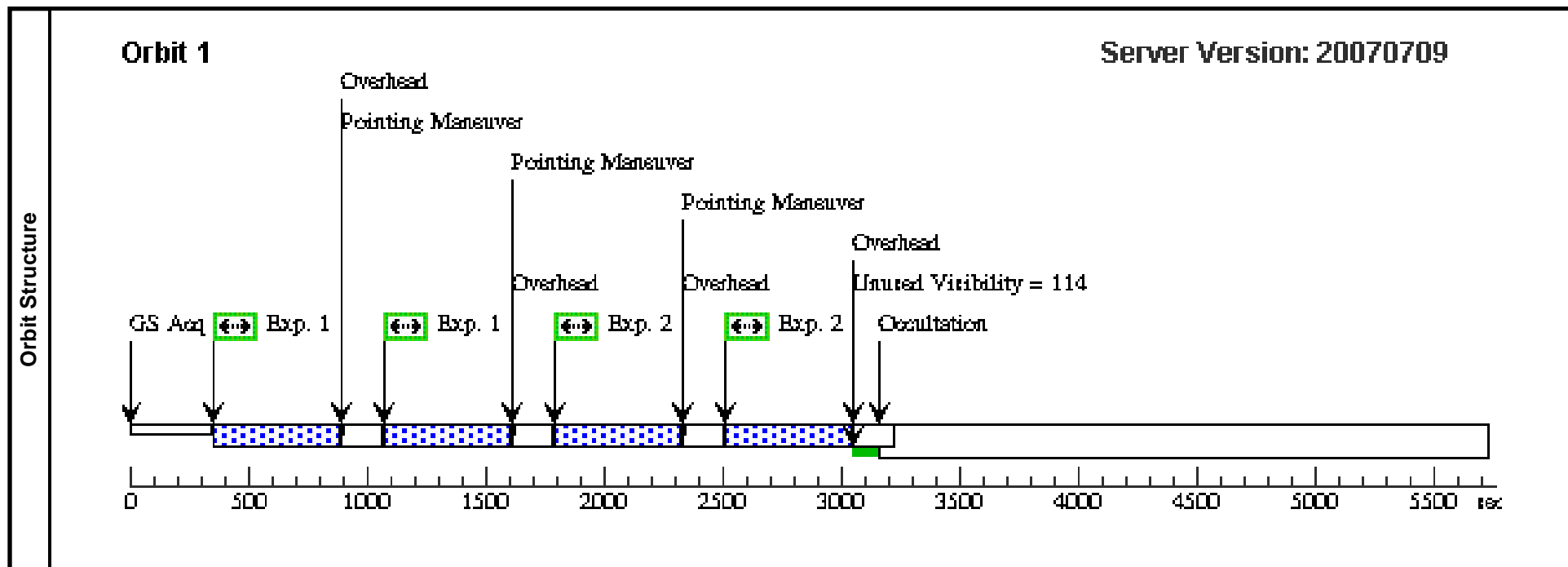
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Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern			Exposures		
	(1)	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1), (2)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections	Fluxes		Miscellaneous			
	(21)	M31-B347	RA: 00 42 22.8500 (10.5952083d) Dec: +41 54 28.25 (41.90785d) Equinox: J2000			V=16.5		Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1	M31B347-B	(21) M31-B347	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs		
									[=>(Pattern 1)]		
									[=>(Pattern 2)]		[1]
2	M31B347-I	(21) M31-B347	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs		
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									[=>(Pattern 2)]		[1]



Proposal 10818 - Visit 23 - Very Young Globular Clusters in M31 ?

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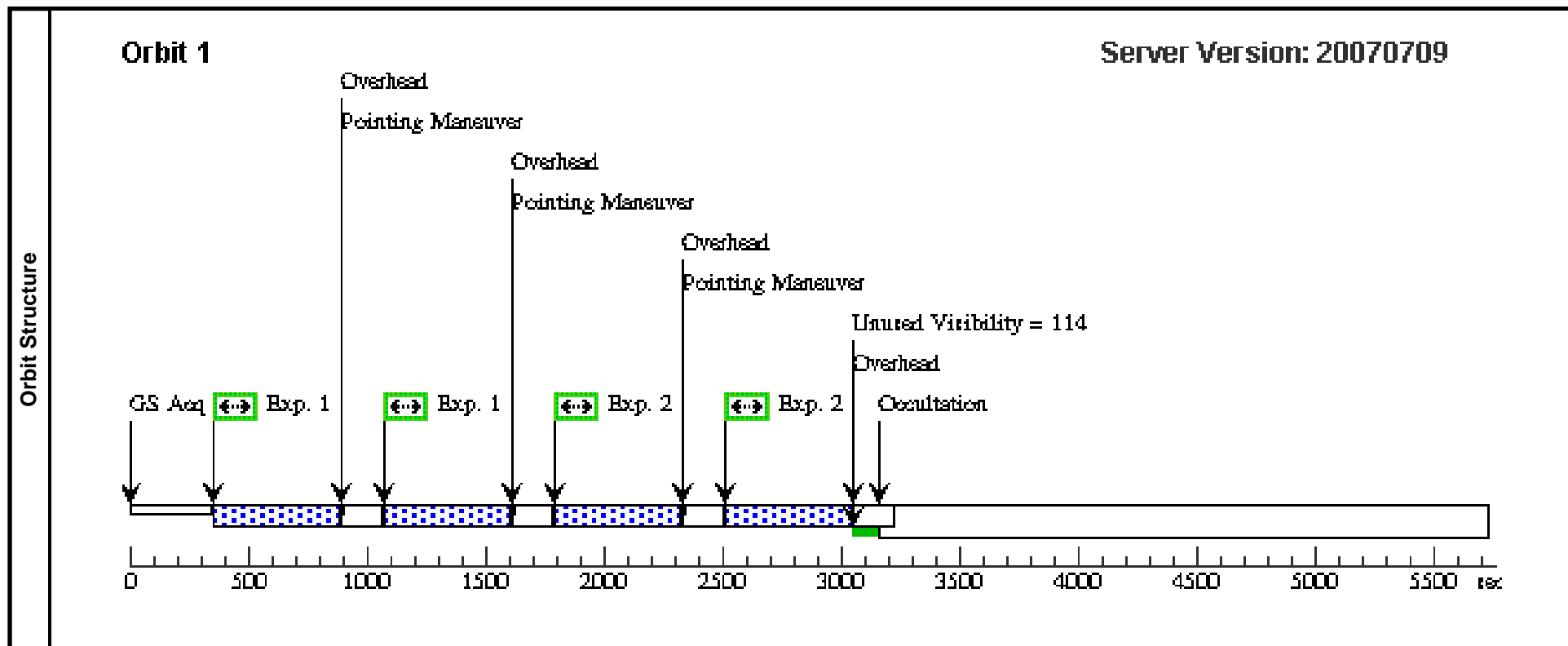
Visit	Proposal 10818, Visit 23 Diagnostic Status: Error Scientific Instruments: WFPC2 Special Requirements: (none)									
	Diagnostics	(Visit 23) Error (Form): SM4 proposals (SM4/* or when sm4test is set) must set Gyro Mode to 3GOBAD								
Patterns		#	Primary Pattern				Secondary Pattern			
	(1)	Pattern Type=WFPC2-LINE		Coordinate Frame=POS-TARG						(1), (2)
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(21)	M31-B347	RA: 00 42 22.8500 (10.5952083d) Dec: +41 54 28.25 (41.90785d) Equinox: J2000				V=16.5		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	M31B347-B	(21) M31-B347	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
2	M31B347-I	(21) M31-B347	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	



Proposal 10818 - Visit 20 - Very Young Globular Clusters in M31 ?

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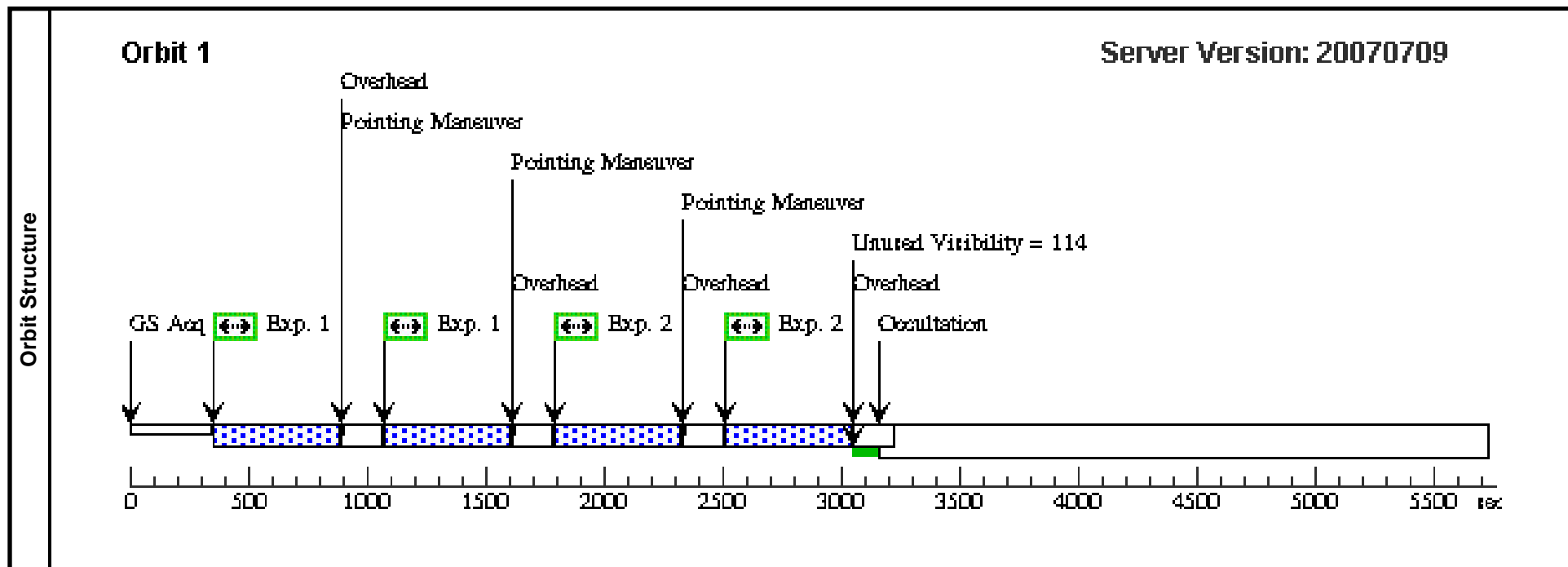
Visit	Proposal 10818, Visit 20, completed Diagnostic Status: Error Scientific Instruments: WFPC2 Special Requirements: (none)										
	(Visit 20) Error (Form): SM4 proposals (SM4/* or when sm4test is set) must set Gyro Mode to 3GOBAD										
Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false						(1), (2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(20)	M31-B448	RA: 00 40 36.5300 (10.1522083d) Dec: +40 40 14.94 (40.67082d) Equinox: J2000				V=17.9		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1	M31B448-B	(20) M31-B448	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs		
									[=>(Pattern 1)]		
									[=>(Pattern 2)]		[1]
2	M31B448-I	(20) M31-B448	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs		
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									[=>(Pattern 2)]		[1]



Proposal 10818 - Visit 01 - Very Young Globular Clusters in M31 ?

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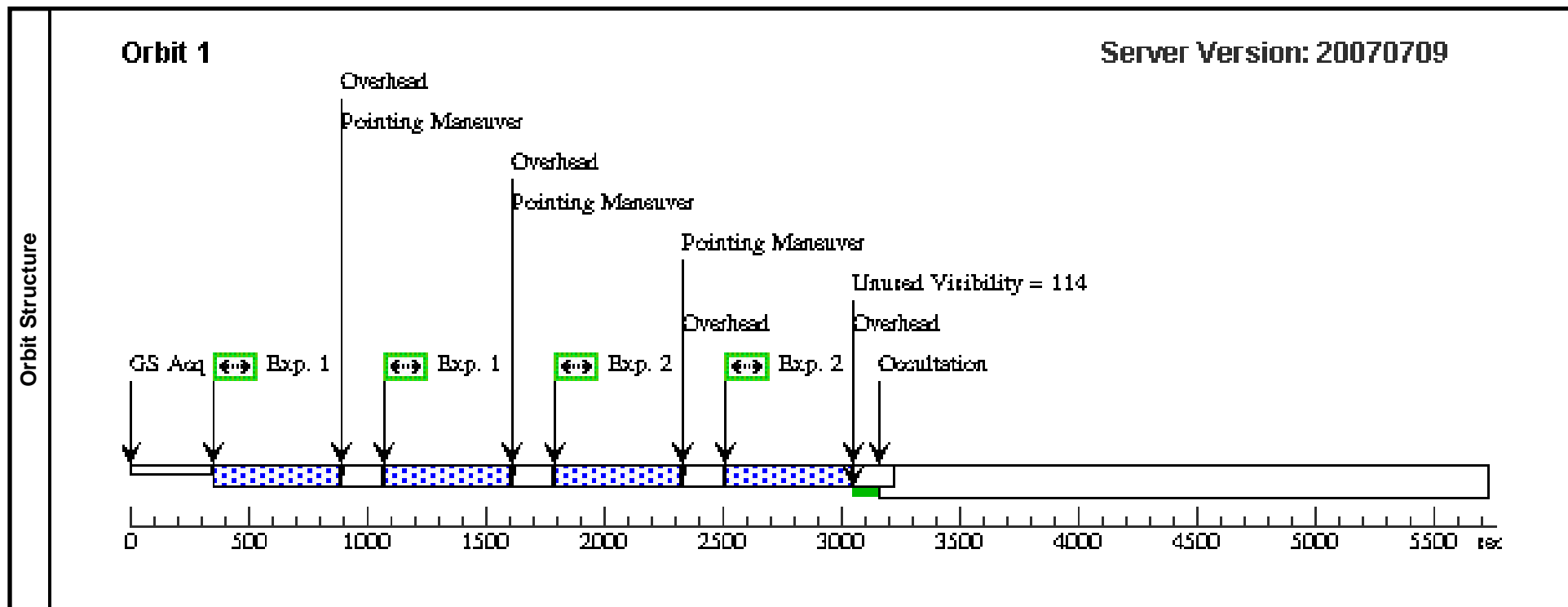
Visit	Proposal 10818, Visit 01, completed Diagnostic Status: Error Scientific Instruments: WFPC2 Special Requirements: (none)									
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Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M31GC-B195D	RA: 00 40 29.3100 (10.1221250d) Dec: +40 36 14.90 (40.60414d) Equinox: J2000		V=15.19	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	M31B195D-B	(1) M31GC-B195D	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
2	M31B195D-I	(1) M31GC-B195D	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs	
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									[=>(Pattern 2)]	



Proposal 10818 - Visit 02 - Very Young Globular Clusters in M31 ?

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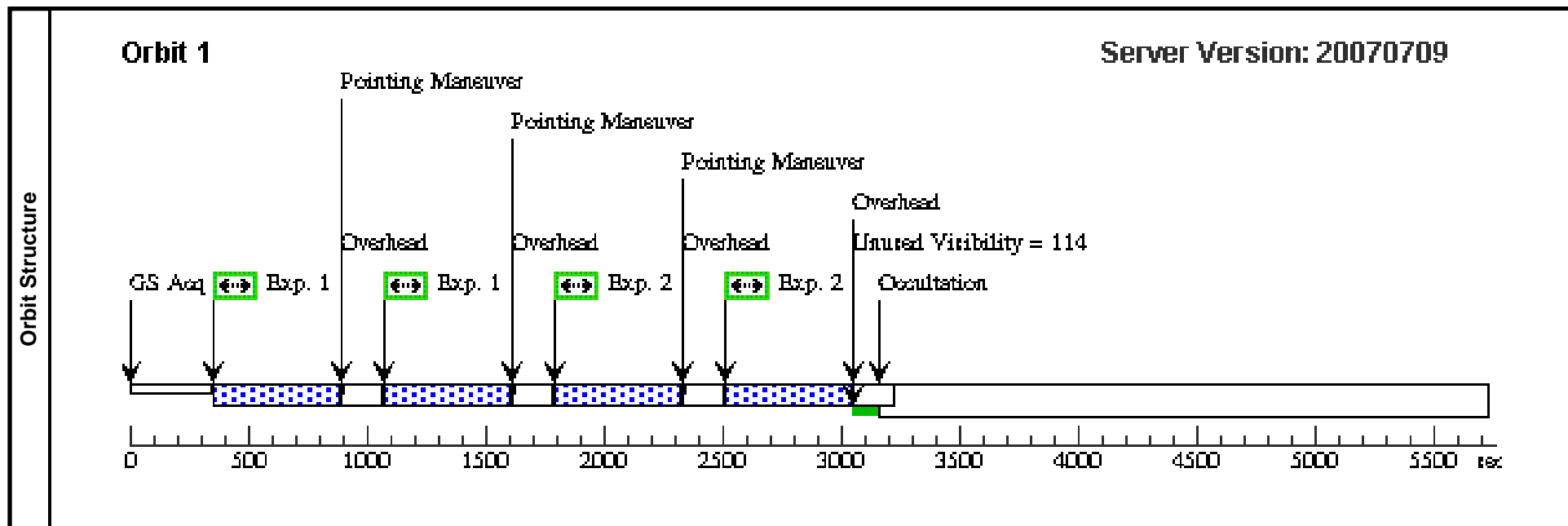
Visit	Proposal 10818, Visit 02, completed Diagnostic Status: Error Scientific Instruments: WFPC2 Special Requirements: (none)									
	(Visit 02) Error (Form): SM4 proposals (SM4/* or when sm4test is set) must set Gyro Mode to 3GOBAD									
Diagnosics										
Patterns	#	Primary Pattern		Secondary Pattern	Exposures					
	(1)	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false		(1), (2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	M31-B318	RA: 00 40 0.7800 (10.0032500d) Dec: +40 34 8.00 (40.56889d) Equinox: J2000		V=17.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	M31B318-B	(2) M31-B318	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs	
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									[=>(Pattern 2)]	
2	M31B318-I	(2) M31-B318	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs	
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Proposal 10818 - Visit 03 - Very Young Globular Clusters in M31 ?

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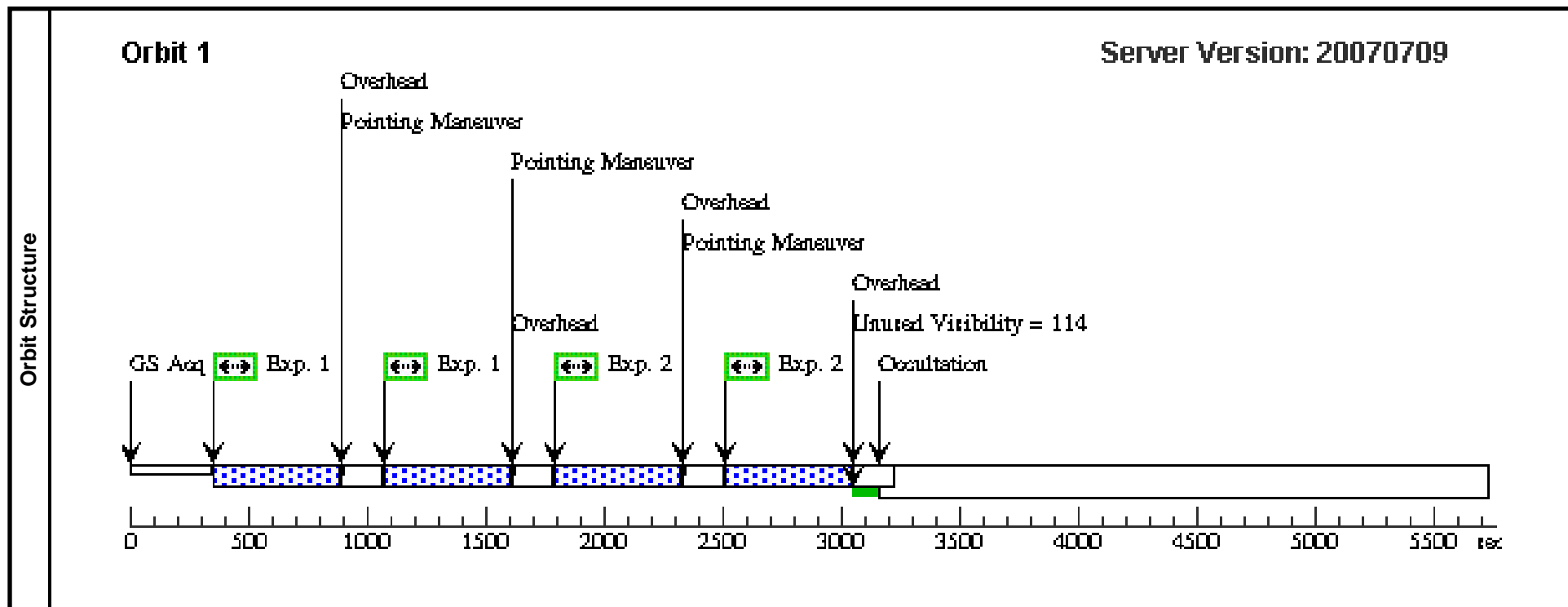
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Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false						(1), (2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(3)	M31GC-B327	RA: 00 40 23.9900 (10.0999583d) Dec: +40 36 22.75 (40.60632d) Equinox: J2000				V=16.58		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1	M31B327-B	(3) M31GC-B327	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs		
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									[=>(Pattern 2)]		
2	M31B327-I	(3) M31GC-B327	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs		
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									[=>(Pattern 2)]		



Proposal 10818 - Visit 04 - Very Young Globular Clusters in M31 ?

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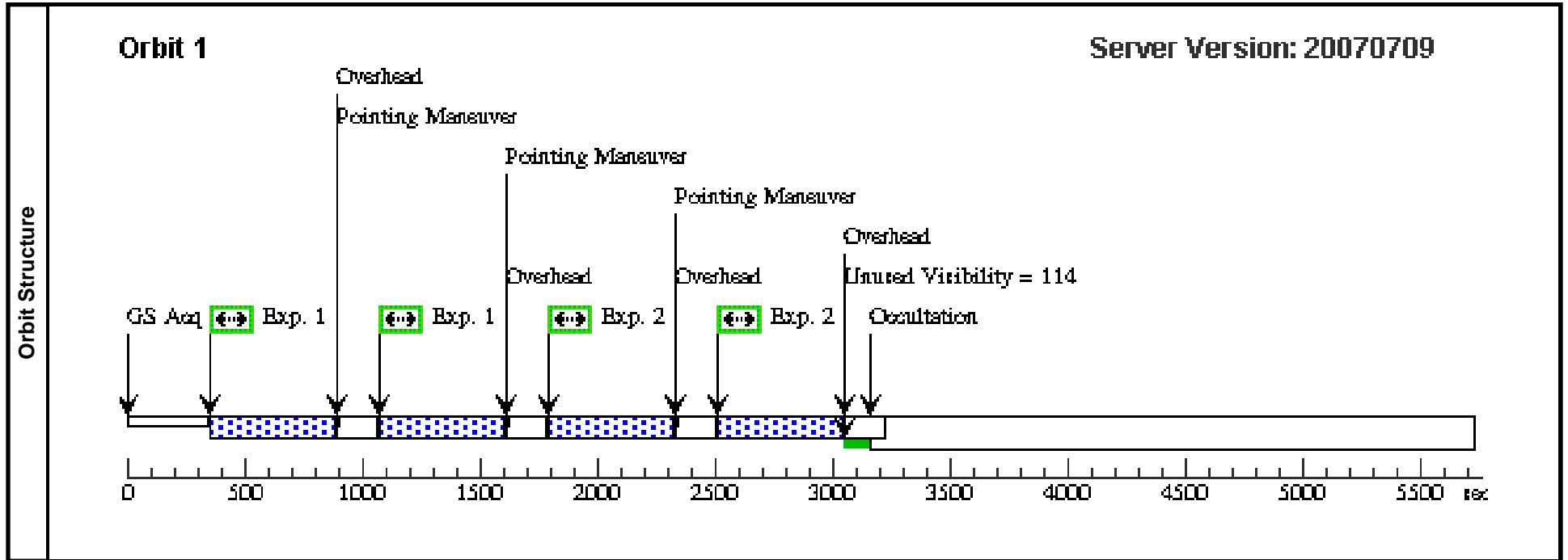
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Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
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Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(4)	M31GC-VDB0	RA: 00 40 29.4100 (10.1225417d) Dec: +40 35 57.69 (40.59936d) Equinox: J2000				V=15.28		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1	M31VDB0-B	(4) M31GC-VDB0	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs		
									[=>(Pattern 1)]		[1]
									[=>(Pattern 2)]		
2	M31VDB0-I	(4) M31GC-VDB0	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs		
									[=>(Pattern 1)]		[1]
									[=>(Pattern 2)]		



Proposal 10818 - Visit 05 - Very Young Globular Clusters in M31 ?

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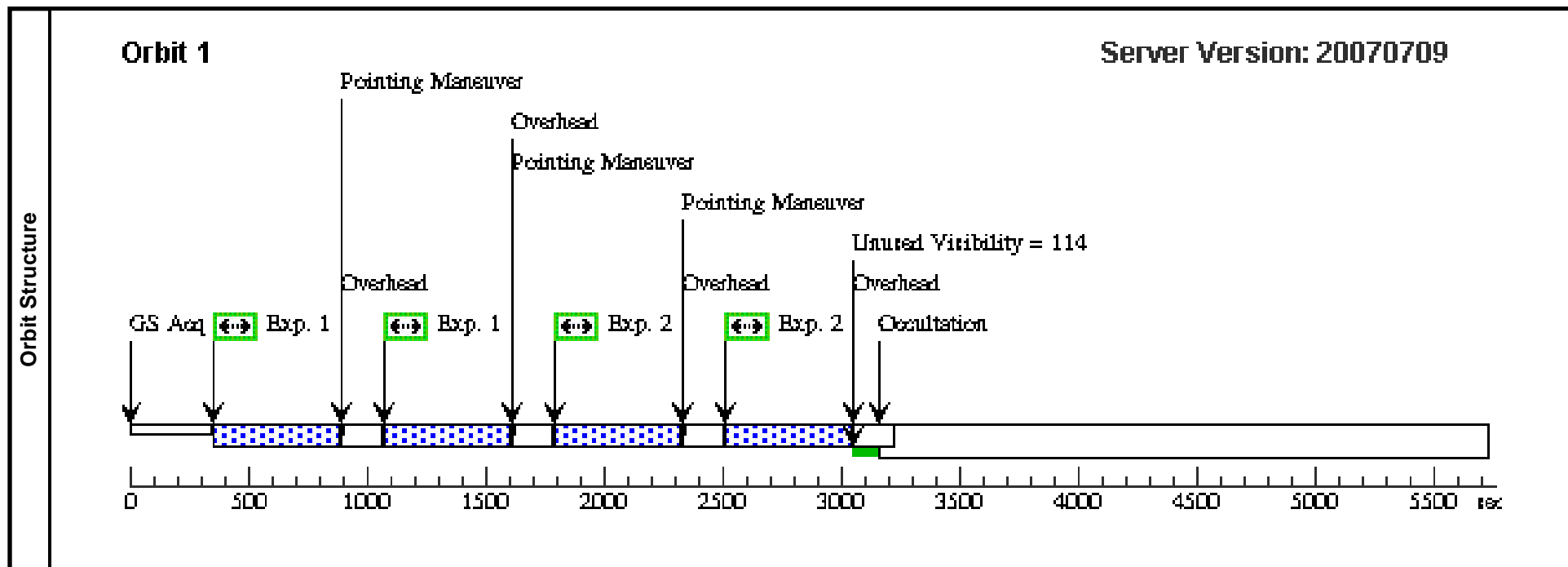
Visit	Proposal 10818, Visit 05, completed Diagnostic Status: Error Scientific Instruments: WFPC2 Special Requirements: (none)									
	(Visit 05) Error (Form): SM4 proposals (SM4/* or when sm4test is set) must set Gyro Mode to 3GOBAD									
Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1), (2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous		
	(5)	M31GC-B040	RA: 00 41 38.8900 (10.4120417d) Dec: +40 40 54.42 (40.68178d) Equinox: J2000				V=17.28	Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	M31B040-B	(5) M31GC-B040	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs	
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									[=>(Pattern 2)]	
2	M31B040-I	(5) M31GC-B040	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs	
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									[=>(Pattern 2)]	



Proposal 10818 - Visit 06 - Very Young Globular Clusters in M31 ?

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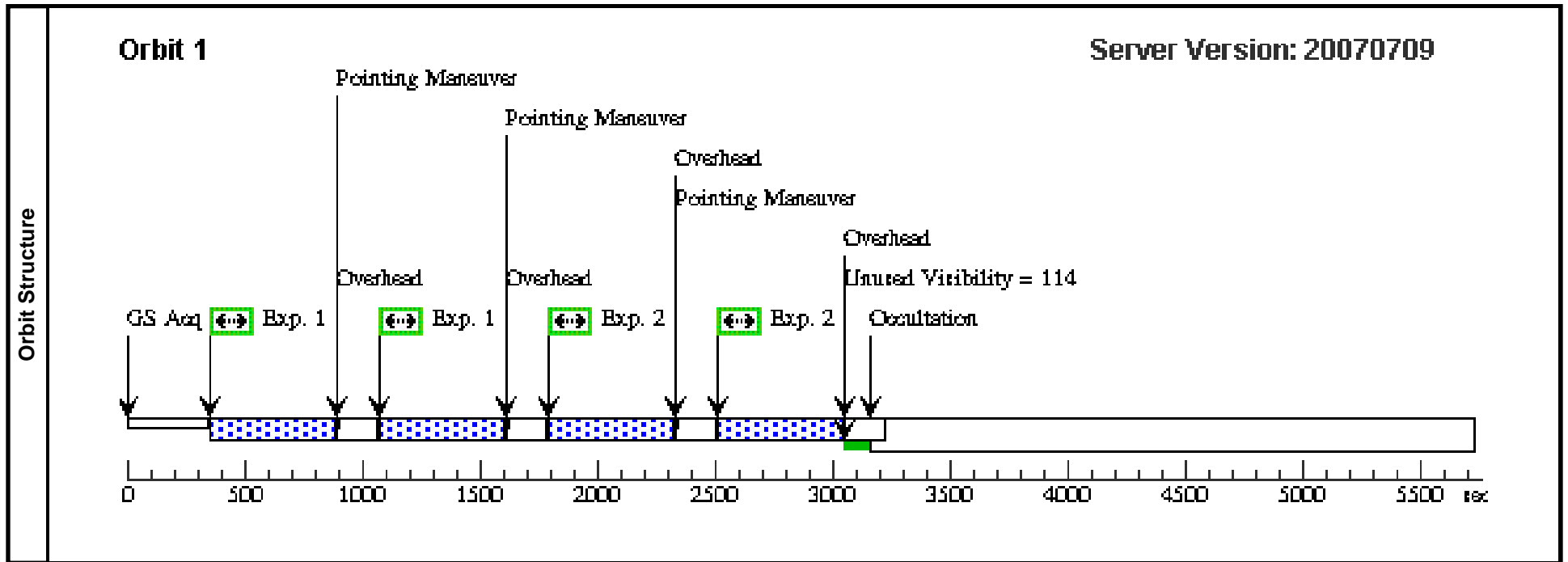
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Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
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		Purpose=DITHER	Pattern Orientation=45							
		Number Of Points=2	Angle Between Sides=							
		Point Spacing=0.354	Center Pattern=false							
		Line Spacing=								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(6)	M31GC-B043	RA: 00 41 42.3400 (10.4264167d) Dec: +40 42 38.77 (40.71077d) Equinox: J2000			V=16.96	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	M31B043-B	(6) M31GC-B043	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
2	M31B043-I	(6) M31GC-B043	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs	
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Proposal 10818 - Visit 22 - Very Young Globular Clusters in M31 ?

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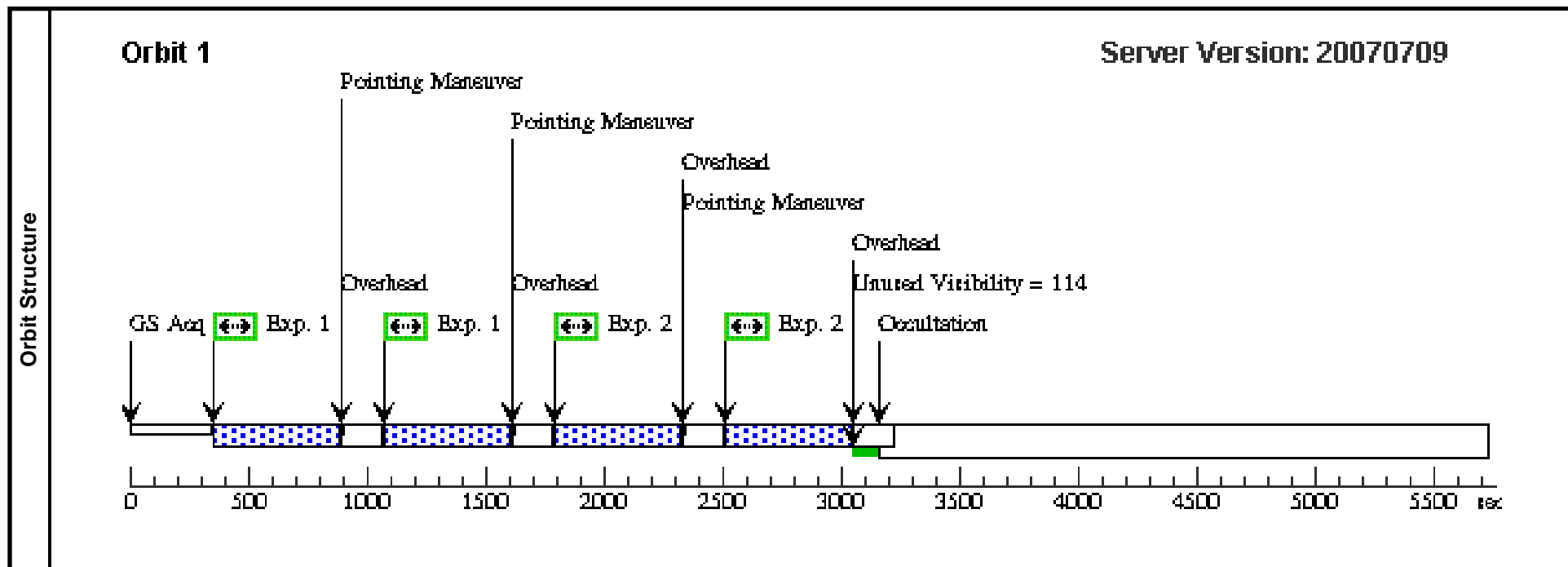
Visit	Proposal 10818, Visit 22 Diagnostic Status: Error Scientific Instruments: WFPC2 Special Requirements: (none)									
	Diagnostics	(Visit 22) Error (Form): SM4 proposals (SM4/* or when sm4test is set) must set Gyro Mode to 3GOBAD								
Patterns		#	Primary Pattern				Secondary Pattern			Exposures
	(1)	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1), (2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections	Fluxes		Miscellaneous		
	(6)	M31GC-B043	RA: 00 41 42.3400 (10.4264167d) Dec: +40 42 38.77 (40.71077d) Equinox: J2000			V=16.96		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	M31B043-B	(6) M31GC-B043	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
2	M31B043-I	(6) M31GC-B043	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	



Proposal 10818 - Visit 07 - Very Young Globular Clusters in M31 ?

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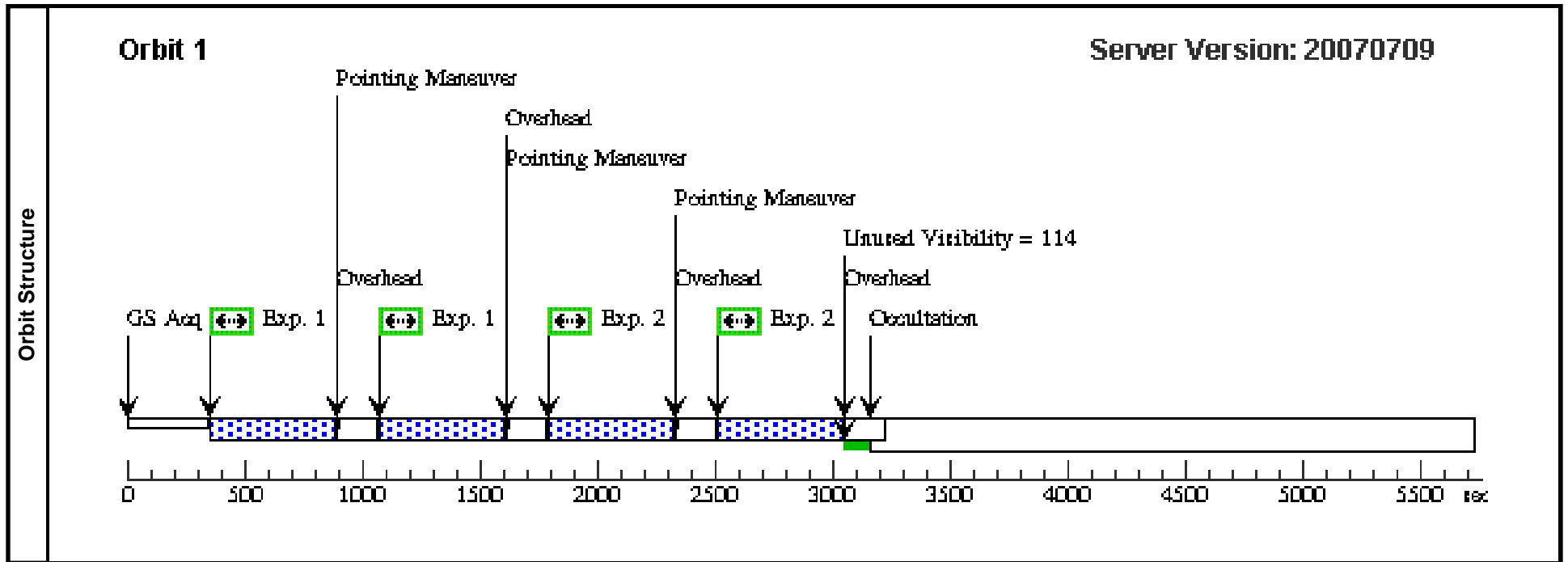
Visit	Proposal 10818, Visit 07, completed Diagnostic Status: Error Scientific Instruments: WFPC2 Special Requirements: (none)									
	(Visit 07) Error (Form): SM4 proposals (SM4/* or when sm4test is set) must set Gyro Mode to 3GOBAD									
Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1), (2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous		
	(7)	M31GC-B374	RA: 00 45 44.5200 (11.4355000d) Dec: +41 41 55.54 (41.69876d) Equinox: J2000				V=18.31	Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	M31B374-B	(7) M31GC-B374	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
2	M31B374-I	(7) M31GC-B374	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	



Proposal 10818 - Visit 08 - Very Young Globular Clusters in M31 ?

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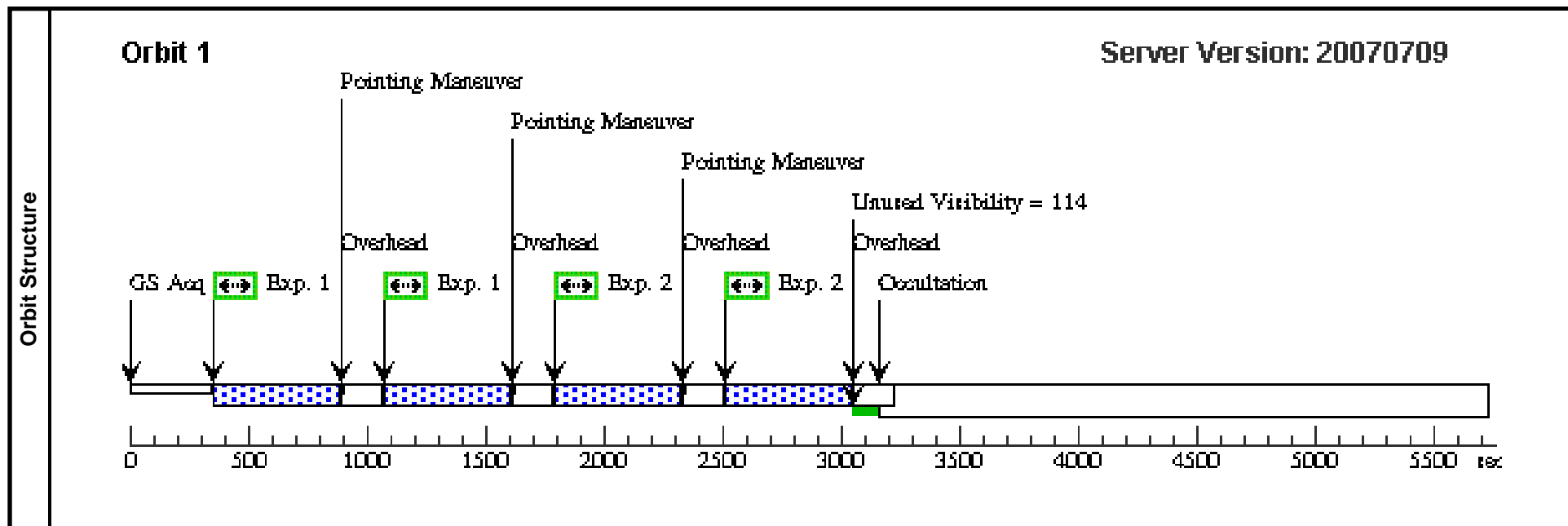
Visit	Proposal 10818, Visit 08, completed Diagnostic Status: Error Scientific Instruments: WFPC2 Special Requirements: (none)									
	Diagnosics (Visit 08) Error (Form): SM4 proposals (SM4/* or when sm4test is set) must set Gyro Mode to 3GOBAD									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFPC2-LINE	Coordinate Frame=POS-TARG						(1), (2)	
		Purpose=DITHER	Pattern Orientation=45							
		Number Of Points=2	Angle Between Sides=							
		Point Spacing=0.354	Center Pattern=false							
		Line Spacing=								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(8)	M31GC-B376	RA: 00 45 48.4400 (11.4518333d) Dec: +41 42 39.41 (41.71095d) Equinox: J2000			V=18.06	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	M31B376-B	(8) M31GC-B376	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
2	M31B376-I	(8) M31GC-B376	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	



Proposal 10818 - Visit 09 - Very Young Globular Clusters in M31 ?

Tue Aug 14 01:02:16 GMT 2007

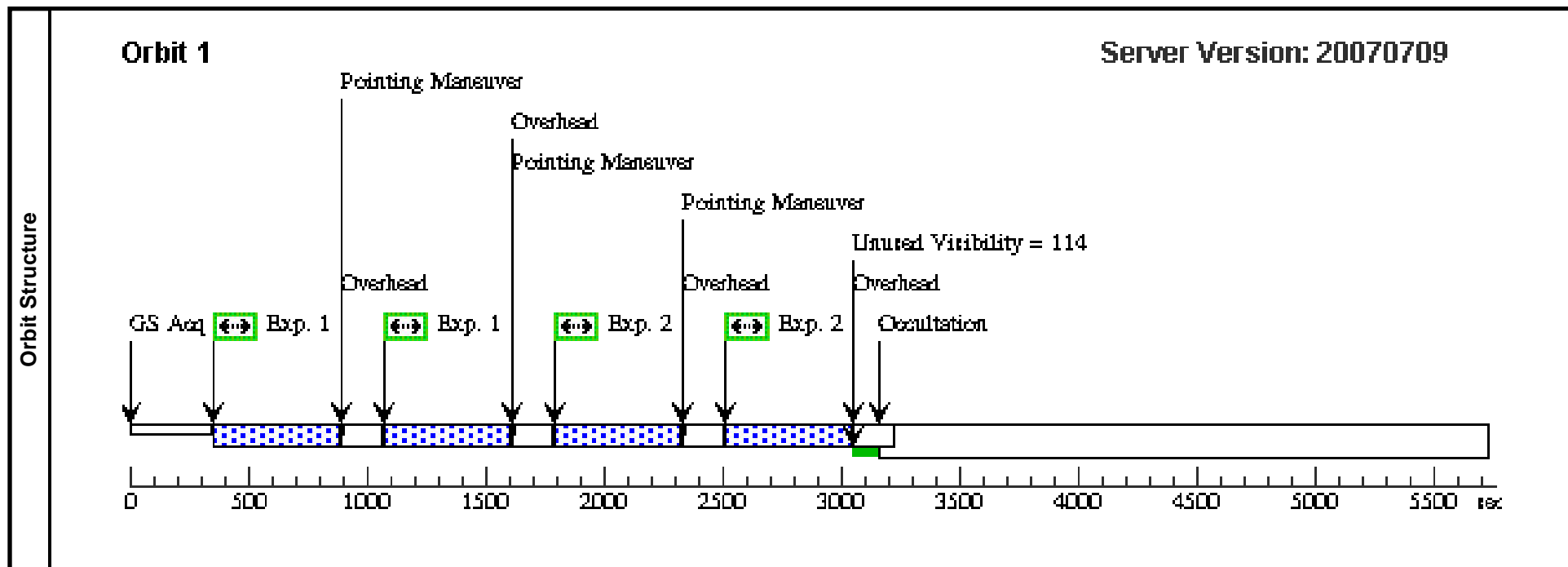
Visit	Proposal 10818, Visit 09, completed Diagnostic Status: Error Scientific Instruments: WFPC2 Special Requirements: (none)									
	(Visit 09) Error (Form): SM4 proposals (SM4/* or when sm4test is set) must set Gyro Mode to 3GOBAD									
Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFPC2-LINE	Coordinate Frame=POS-TARG						(1), (2)	
		Purpose=DITHER	Pattern Orientation=45							
		Number Of Points=2	Angle Between Sides=							
		Point Spacing=0.354	Center Pattern=false							
		Line Spacing=								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(9)	M31GC-B475	RA: 00 44 56.0000 (11.2333333d) Dec: +41 54 2.21 (41.90061d) Equinox: J2000			V=17.56	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	M31B475-B	(9) M31GC-B475	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
2	M31B475-I	(9) M31GC-B475	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	



Proposal 10818 - Visit 10 - Very Young Globular Clusters in M31 ?

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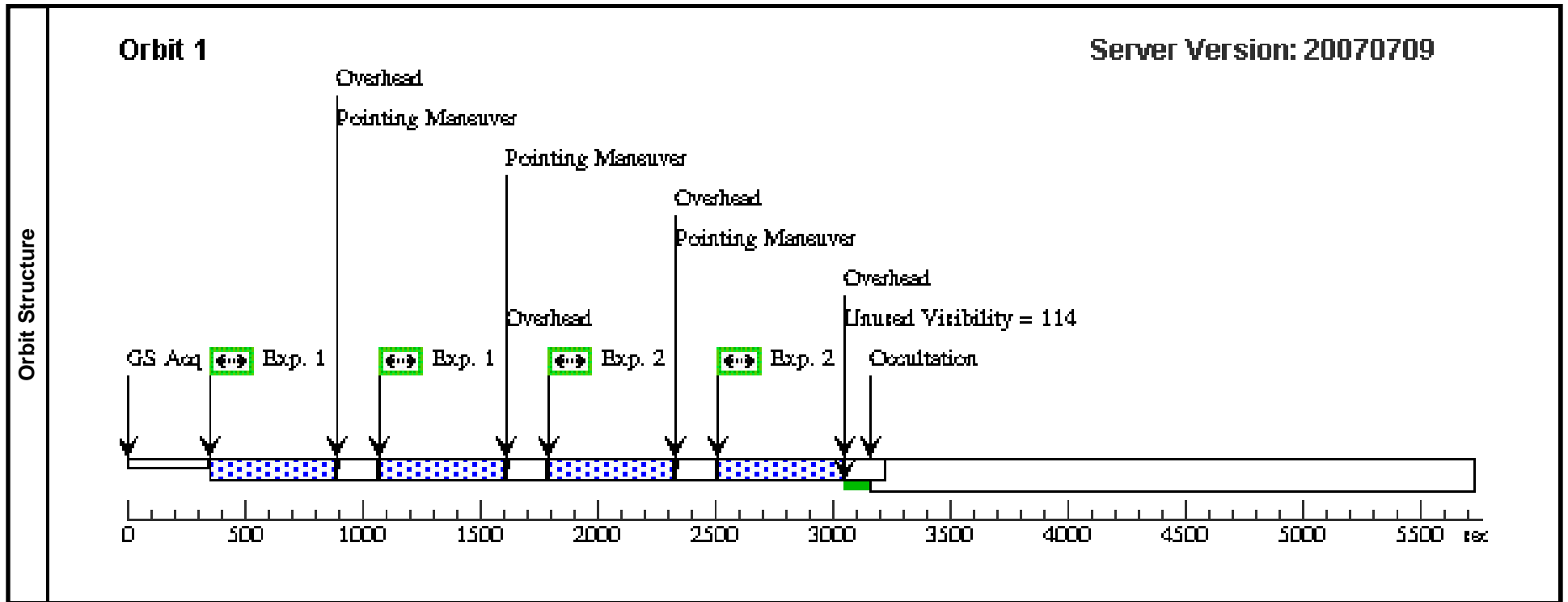
Visit	Proposal 10818, Visit 10, completed Diagnostic Status: Error Scientific Instruments: WFPC2 Special Requirements: (none)									
	Diagnosics (Visit 10) Error (Form): SM4 proposals (SM4/* or when sm4test is set) must set Gyro Mode to 3GOBAD									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false				(1), (2)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	M31GC-B257D	RA: 00 44 59.4200 (11.2475833d) Dec: +41 54 47.06 (41.91307d) Equinox: J2000		V=17.4	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	M31B257D-B	(10) M31GC-B257D	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs [=>(Pattern 1)] [=>(Pattern 2)]	[1]
2	M31B275D-I	(10) M31GC-B257D	WFPC2, IMAGE, PC1	F814W			Pattern 2-2 (1)	400.0 Secs [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 10818 - Visit 11 - Very Young Globular Clusters in M31 ?

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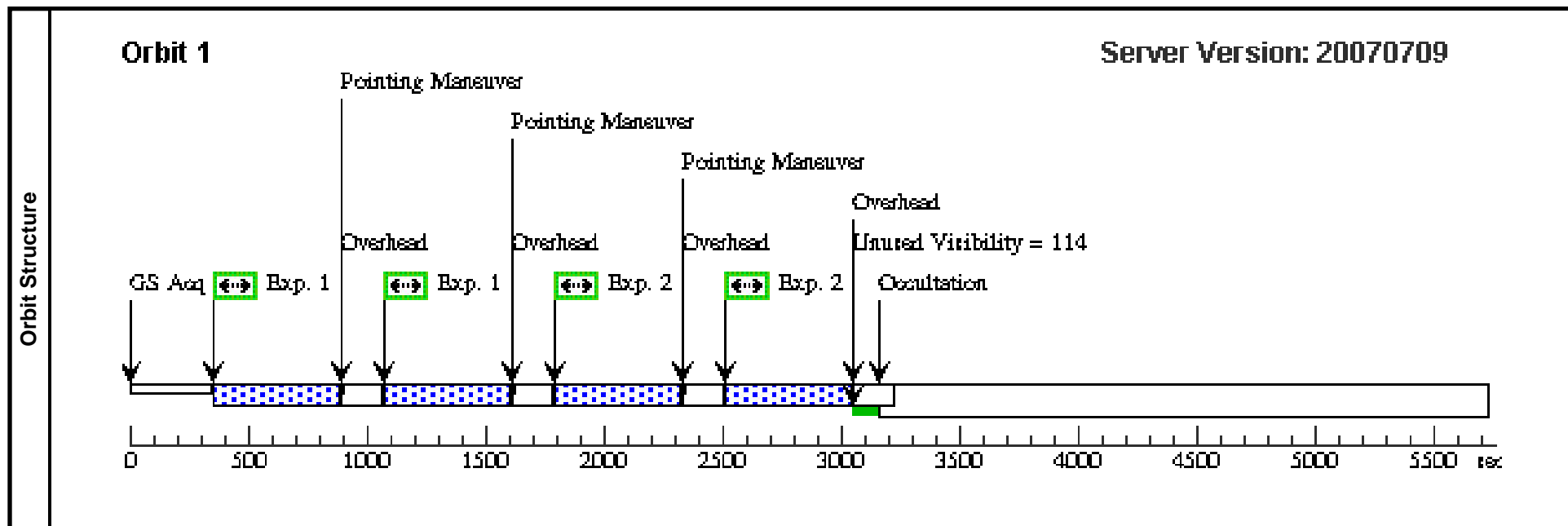
Visit	Proposal 10818, Visit 11, completed Diagnostic Status: Error Scientific Instruments: WFPC2 Special Requirements: (none)									
	Diagnosics (Visit 11) Error (Form): SM4 proposals (SM4/* or when sm4test is set) must set Gyro Mode to 3GOBAD									
Patterns	#	Primary Pattern		Secondary Pattern	Exposures					
	(1)	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false		(1), (2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	M31GC-NB67	RA: 00 42 34.1900 (10.6424583d) Dec: +41 19 46.70 (41.32964d) Equinox: J2000		V=16.14	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	M31NB67-B	(11) M31GC-NB67	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
2	M31NB67-I	(11) M31GC-NB67	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	



Proposal 10818 - Visit 12 - Very Young Globular Clusters in M31 ?

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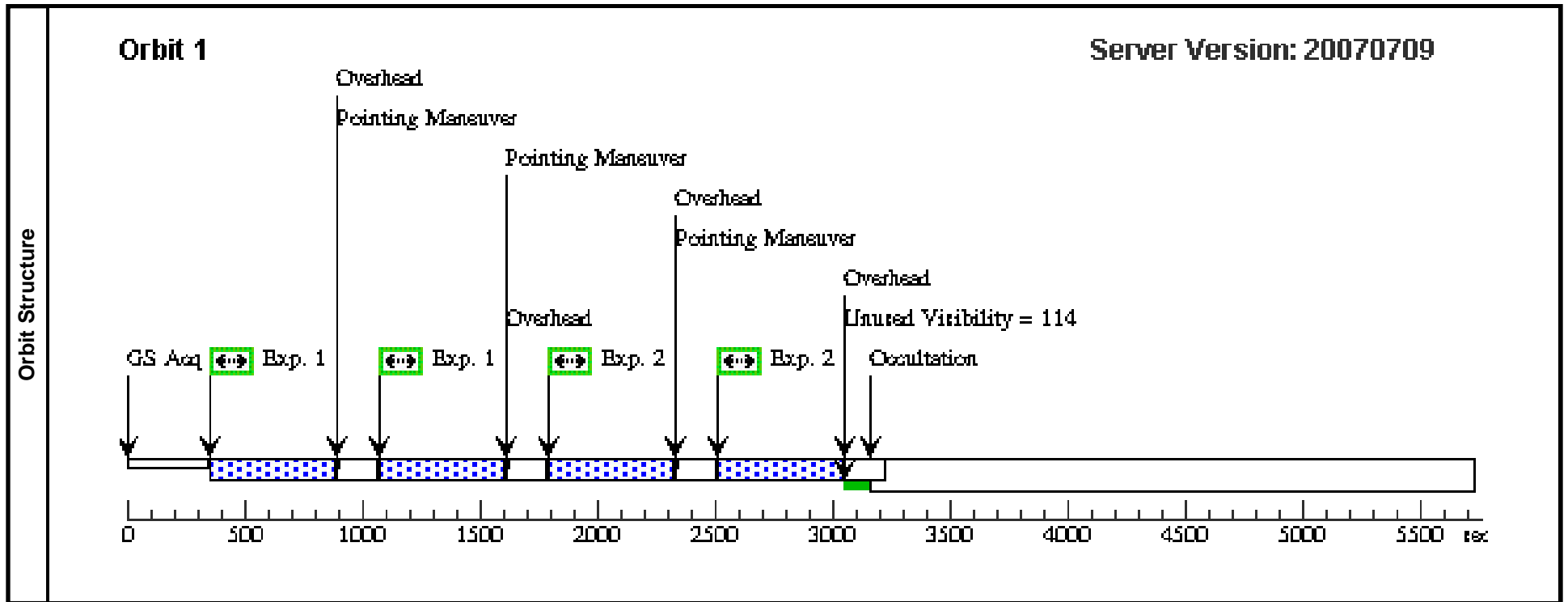
Visit	Proposal 10818, Visit 12, completed Diagnostic Status: Error Scientific Instruments: WFPC2 Special Requirements: (none)									
	Diagnosics (Visit 12) Error (Form): SM4 proposals (SM4/* or when sm4test is set) must set Gyro Mode to 3GOBAD									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1), (2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(12)	M31GC-NB16	RA: 00 42 33.1500 (10.6381250d) Dec: +41 20 17.02 (41.33806d) Equinox: J2000			V=17.55	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	M31NB16-B	(12) M31GC-NB16	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
2	M31NB16-I	(12) M31GC-NB16	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	



Proposal 10818 - Visit 13 - Very Young Globular Clusters in M31 ?

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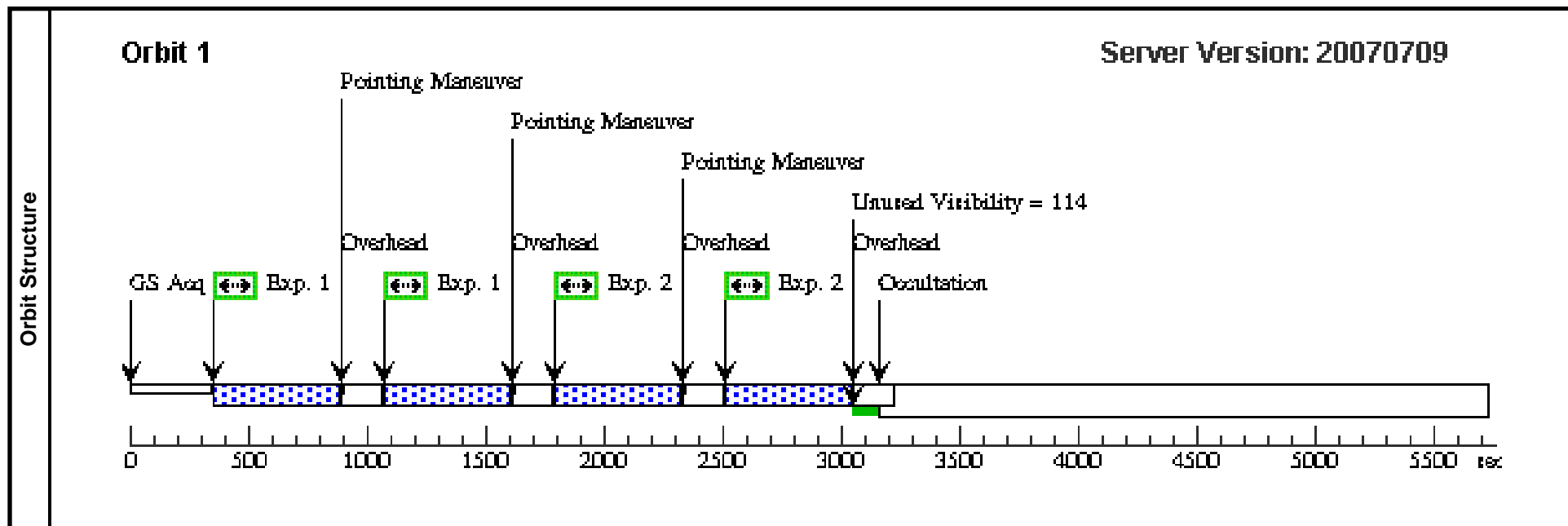
Visit	Proposal 10818, Visit 13, completed Diagnostic Status: Error Scientific Instruments: WFPC2 Special Requirements: (none)									
	(Visit 13) Error (Form): SM4 proposals (SM4/* or when sm4test is set) must set Gyro Mode to 3GOBAD									
Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1), (2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections	Fluxes		Miscellaneous		
	(13)	M31GC-V031	RA: 00 41 12.1500 (10.3006250d) Dec: +41 05 32.15 (41.09226d) Equinox: J2000			V=17.45		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	M31V031-B	(13) M31GC-V031	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
2	M31V031-I	(13) M31GC-V031	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	



Proposal 10818 - Visit 14 - Very Young Globular Clusters in M31 ?

Tue Aug 14 01:02:17 GMT 2007

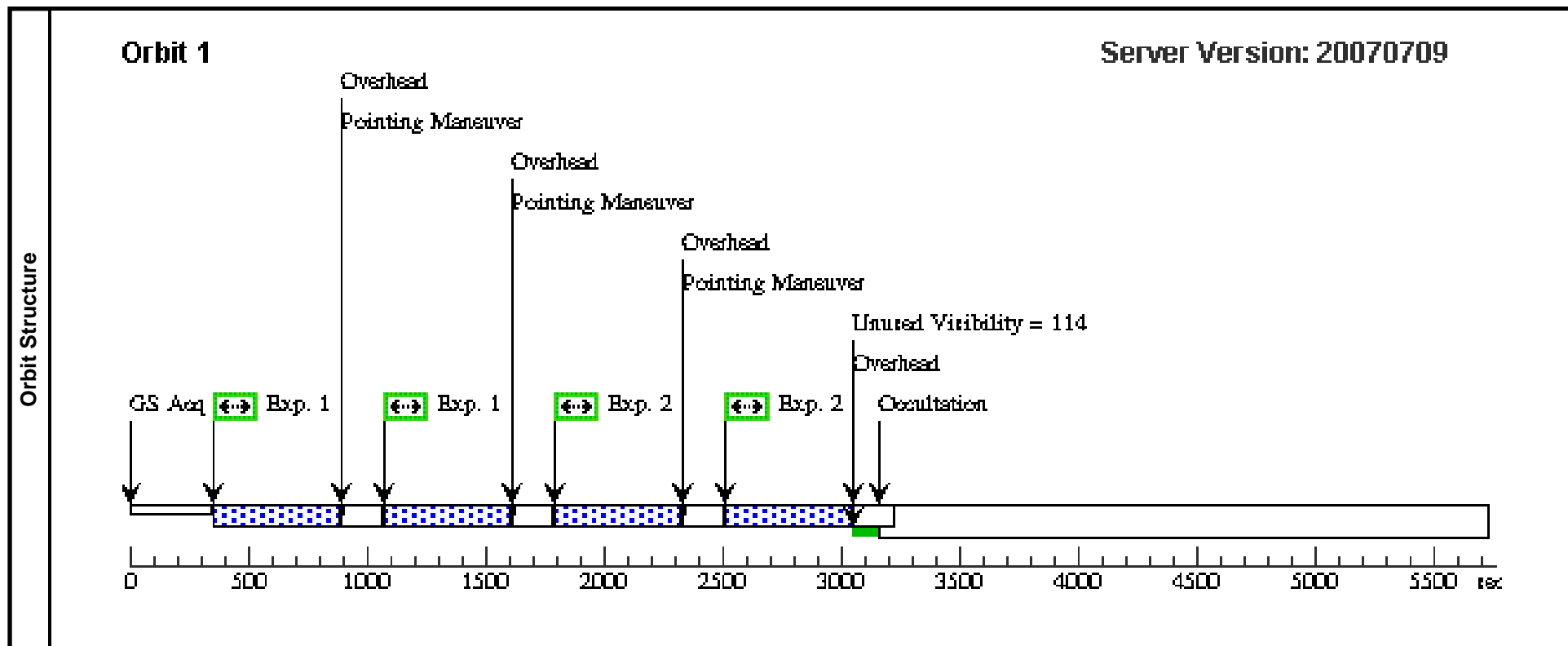
Visit	Proposal 10818, Visit 14, completed Diagnostic Status: Error Scientific Instruments: WFPC2 Special Requirements: (none)									
	Diagnosics (Visit 14) Error (Form): SM4 proposals (SM4/* or when sm4test is set) must set Gyro Mode to 3GOBAD									
Patterns	#	Primary Pattern		Secondary Pattern	Exposures					
	(1)	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false		(1), (2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(14)	M31GC-B015D	RA: 00 41 2.7500 (10.2614583d) Dec: +41 06 36.36 (41.11010d) Equinox: J2000		V=17.8	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	M31B015D-B	(14) M31GC-B015D	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
2	M31B015D-I	(14) M31GC-B015D	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	



Proposal 10818 - Visit 15 - Very Young Globular Clusters in M31 ?

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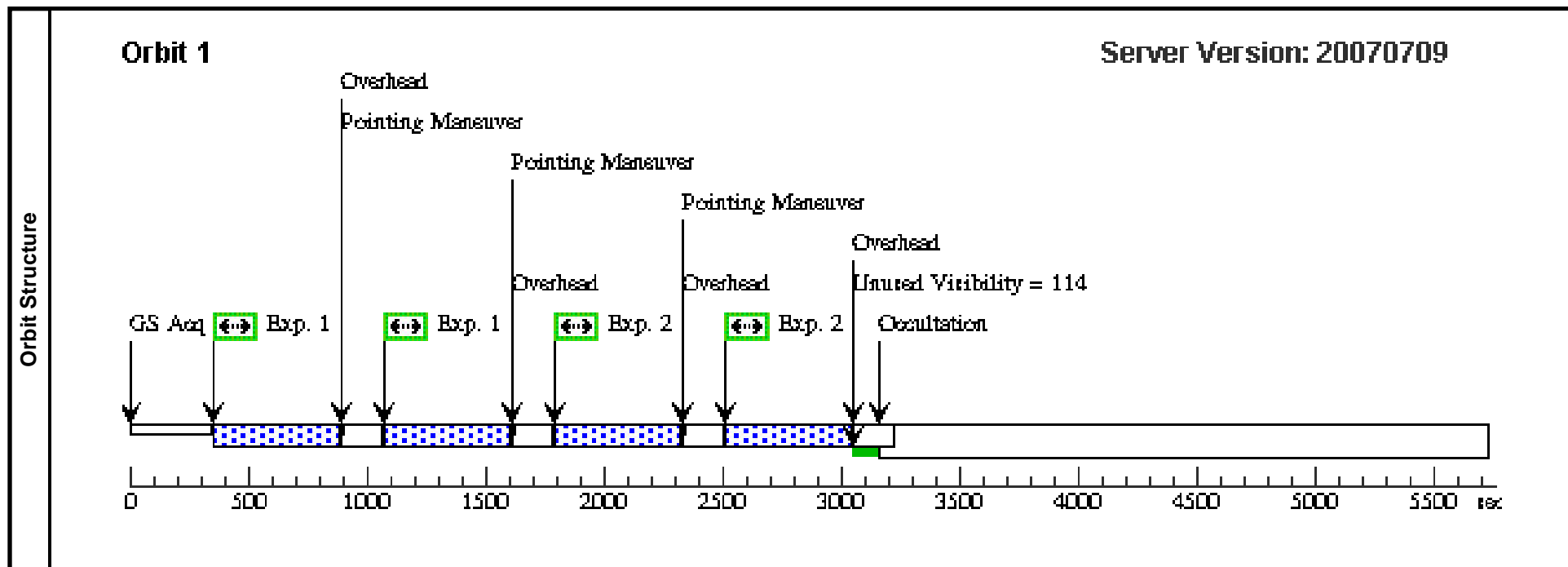
Visit	Proposal 10818, Visit 15, completed Diagnostic Status: Error Scientific Instruments: WFPC2 Special Requirements: (none)									
	(Visit 15) Error (Form): SM4 proposals (SM4/* or when sm4test is set) must set Gyro Mode to 3GOBAD									
Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1), (2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous		
	(15)	M31-B321	RA: 00 40 15.4000 (10.0641667d) Dec: +40 27 45.86 (40.46274d) Equinox: J2000				V=17.7	Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	M31B321-B	(15) M31-B321	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
2	M31B321-I	(15) M31-B321	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	



Proposal 10818 - Visit 16 - Very Young Globular Clusters in M31 ?

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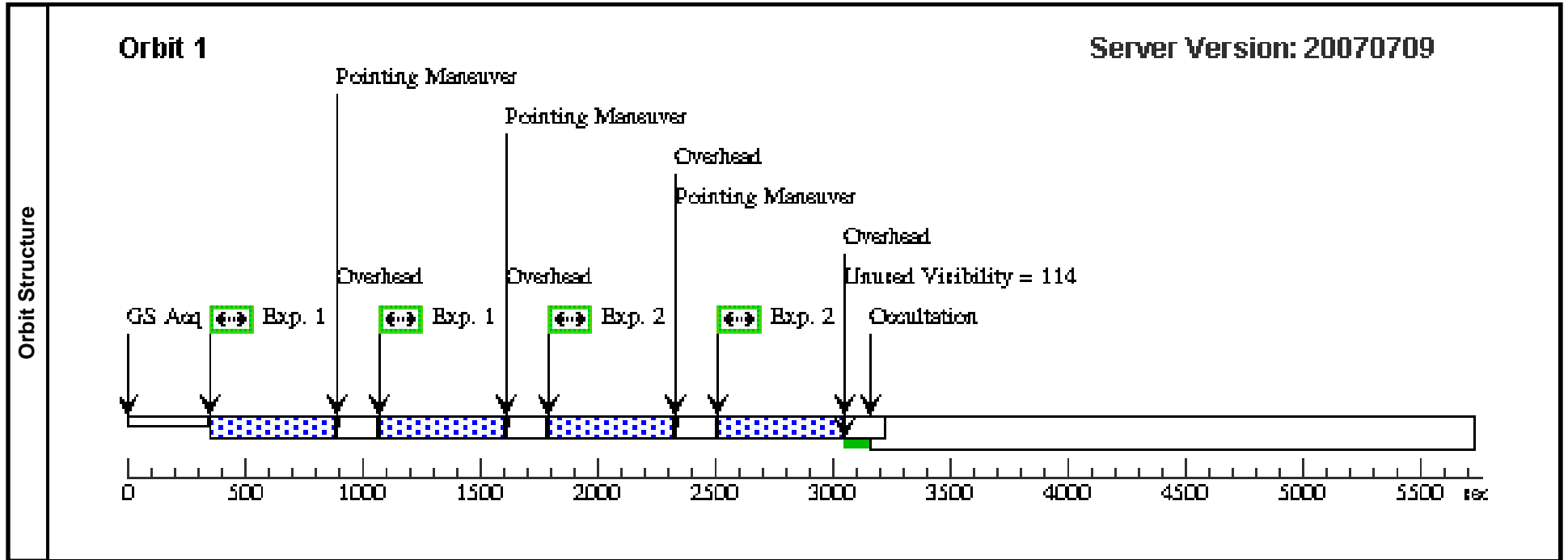
Visit	Proposal 10818, Visit 16, failed Diagnostic Status: Error Scientific Instruments: WFPC2 Special Requirements: (none)									
	(Visit 16) Error (Form): SM4 proposals (SM4/* or when sm4test is set) must set Gyro Mode to 3GOBAD									
Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1), (2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections	Fluxes		Miscellaneous		
	(16)	M31-B066	RA: 00 42 3.0400 (10.5126667d) Dec: +40 44 45.51 (40.74598d) Equinox: J2000			V=18.3		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	M31B066-B	(16) M31-B066	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
2	M31B066-I	(16) M31-B066	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	



Proposal 10818 - Visit 24 - Very Young Globular Clusters in M31 ?

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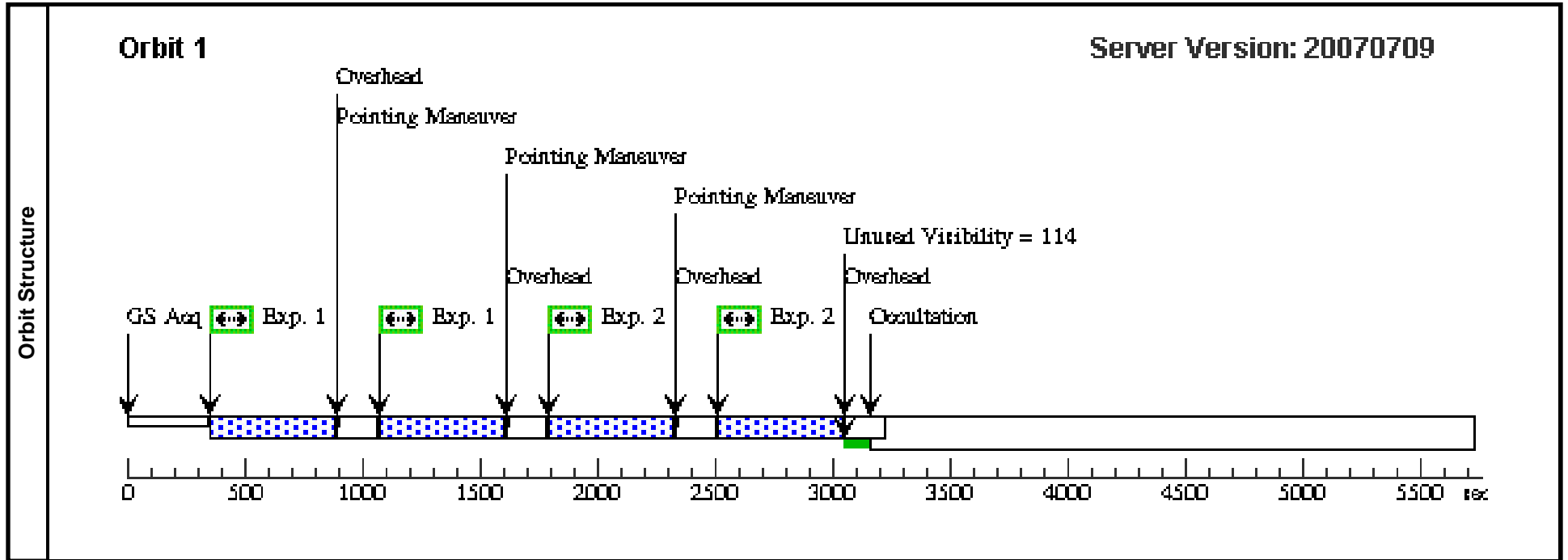
Visit	Proposal 10818, Visit 24 Diagnostic Status: Error Scientific Instruments: WFPC2 Special Requirements: (none)									
	Diagnostics	(Visit 24) Error (Form): SM4 proposals (SM4/* or when sm4test is set) must set Gyro Mode to 3GOBAD								
Patterns		#	Primary Pattern				Secondary Pattern			
	(1)	Pattern Type=WFPC2-LINE		Coordinate Frame=POS-TARG						(1), (2)
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(16)	M31-B066	RA: 00 42 3.0400 (10.5126667d) Dec: +40 44 45.51 (40.74598d) Equinox: J2000				V=18.3		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	M31B066-B	(16) M31-B066	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
2	M31B066-I	(16) M31-B066	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	



Proposal 10818 - Visit 17 - Very Young Globular Clusters in M31 ?

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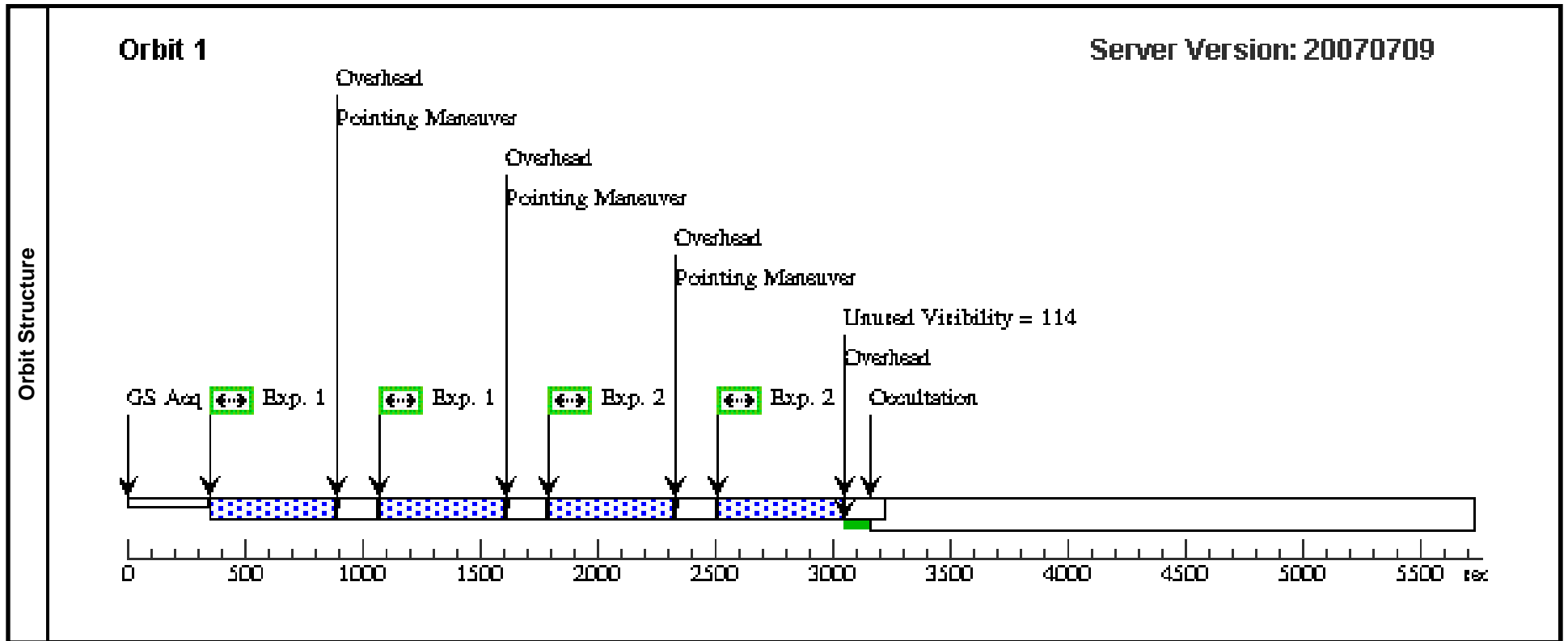
Visit	Proposal 10818, Visit 17, completed Diagnostic Status: Error Scientific Instruments: WFPC2 Special Requirements: (none)									
	Diagnosics (Visit 17) Error (Form): SM4 proposals (SM4/* or when sm4test is set) must set Gyro Mode to 3GOBAD									
Patterns	#	Primary Pattern		Secondary Pattern	Exposures					
	(1)	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false		(1), (2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(17)	M31-B081	RA: 00 42 13.6100 (10.5567083d) Dec: +40 48 38.37 (40.81066d) Equinox: J2000		V=17.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	M31B081-B	(17) M31-B081	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
2	M31B081-I	(17) M31-B081	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	



Proposal 10818 - Visit 18 - Very Young Globular Clusters in M31 ?

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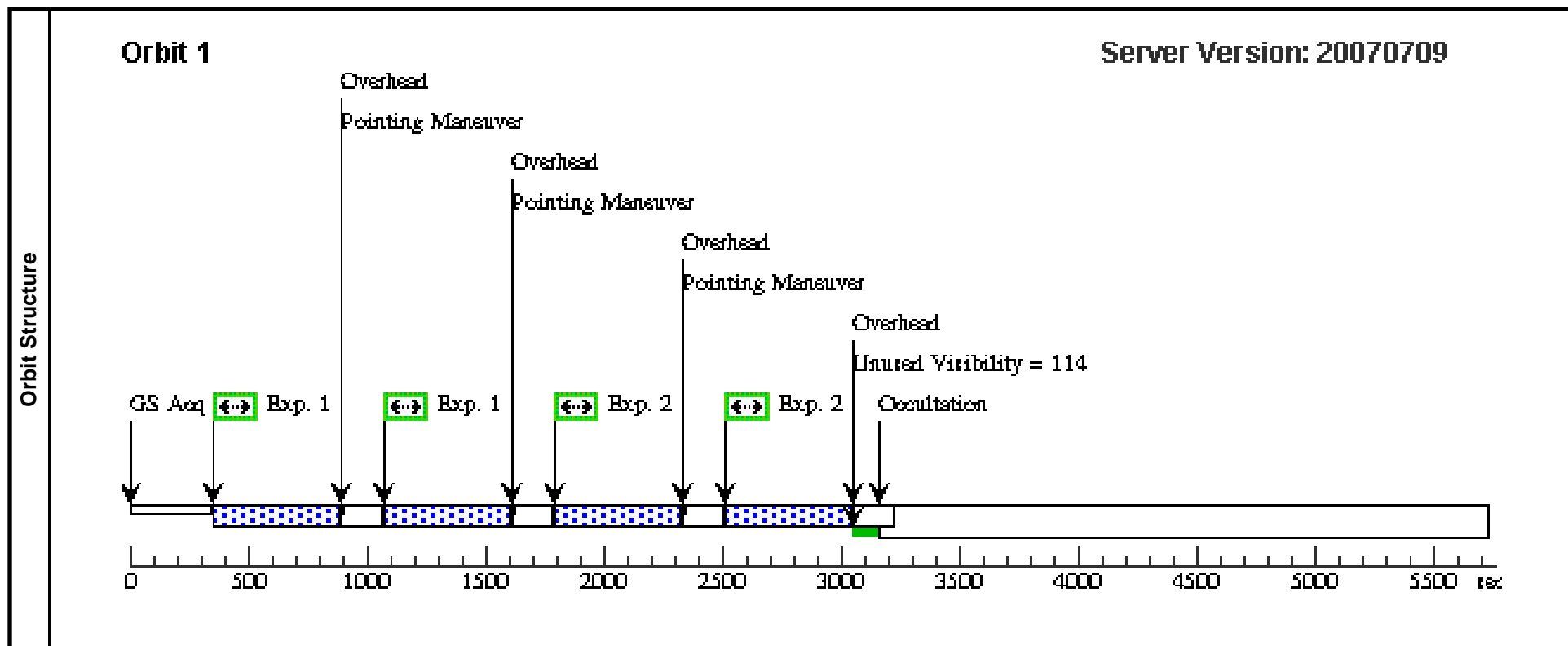
Visit	Proposal 10818, Visit 18, completed Diagnostic Status: Error Scientific Instruments: WFPC2 Special Requirements: (none)									
	Diagnosics (Visit 18) Error (Form): SM4 proposals (SM4/* or when sm4test is set) must set Gyro Mode to 3GOBAD									
Patterns	#	Primary Pattern		Secondary Pattern	Exposures					
	(1)	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false		(1), (2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(18)	M31-B222	RA: 00 44 25.5100 (11.1062917d) Dec: +41 14 12.62 (41.23684d) Equinox: J2000		V=17.8	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	M31B222-B	(18) M31-B222	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
2	M31B222-I	(18) M31-B222	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	



Proposal 10818 - Visit 19 - Very Young Globular Clusters in M31 ?

Tue Aug 14 01:02:19 GMT 2007

Visit	Proposal 10818, Visit 19, failed Diagnostic Status: Error Scientific Instruments: WFPC2 Special Requirements: (none)									
	(Visit 19) Error (Form): SM4 proposals (SM4/* or when sm4test is set) must set Gyro Mode to 3GOBAD									
Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(1)	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false						(1), (2)
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(19)	M31-B083	RA: 00 42 16.4600 (10.5685833d) Dec: +41 45 22.34 (41.75621d) Equinox: J2000				V=17.1		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	M31B083-B	(19) M31-B083	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
2	M31B083-I	(19) M31-B083	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	



Proposal 10818 - Visit 25 - Very Young Globular Clusters in M31 ?

Tue Aug 14 01:02:20 GMT 2007

Visit	Proposal 10818, Visit 25 Diagnostic Status: Error Scientific Instruments: WFPC2 Special Requirements: (none)									
	Diagnostics	(Visit 25) Error (Form): SM4 proposals (SM4/* or when sm4test is set) must set Gyro Mode to 3GOBAD								
Patterns		#	Primary Pattern				Secondary Pattern			Exposures
	(1)	Pattern Type=WFPC2-LINE		Coordinate Frame=POS-TARG					(1), (2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous		
	(19)	M31-B083	RA: 00 42 16.4600 (10.5685833d) Dec: +41 45 22.34 (41.75621d) Equinox: J2000				V=17.1	Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	M31B083-B	(19) M31-B083	WFPC2, IMAGE, PC1	F450W			Pattern 1-1 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
2	M31B083-I	(19) M31-B083	WFPC2, IMAGE, PC1	F814W				Pattern 2-2 (1)	400.0 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	

