



10558 - Archaeology of Fossil Galaxy Groups

Cycle: 14, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	ANY (1) NGC-6482	ACS/WFC WFPC2	1	17-Jul-2006 21:05:18.0	yes
02	(2) NGC-1132 ANY	ACS/WFC WFPC2	4	17-Jul-2006 21:05:27.0	yes
03	(3) ESO-306--G-017 ANY	ACS/WFC WFPC2	3	17-Jul-2006 21:05:39.0	yes
04	(4) ESO-306--G-017-2 ANY	ACS/WFC WFPC2	3	17-Jul-2006 21:05:45.0	yes

Proposal 10558 - Overview

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
12	(2) NGC-1132 ANY	ACS/WFC WFPC2	4	17-Jul-2006 21:05:53.0	yes

15 Total Orbits Used

ABSTRACT

Fossil groups are concentrations of dark matter with masses and x-ray luminosities comparable to those of an entire group of galaxies, but whose light is dominated by a single, isolated, large elliptical galaxy. The origin of these systems remains a puzzle: they may be the end products of complete merging of galaxies within once normal groups, or they might originate from a very unusual galaxy luminosity function in those regions that inhibits the formation of moderate-sized galaxies. We propose the first study of the globular cluster populations of the dominant elliptical galaxies in fossil galaxy groups, which will provide important new insights into their origin.

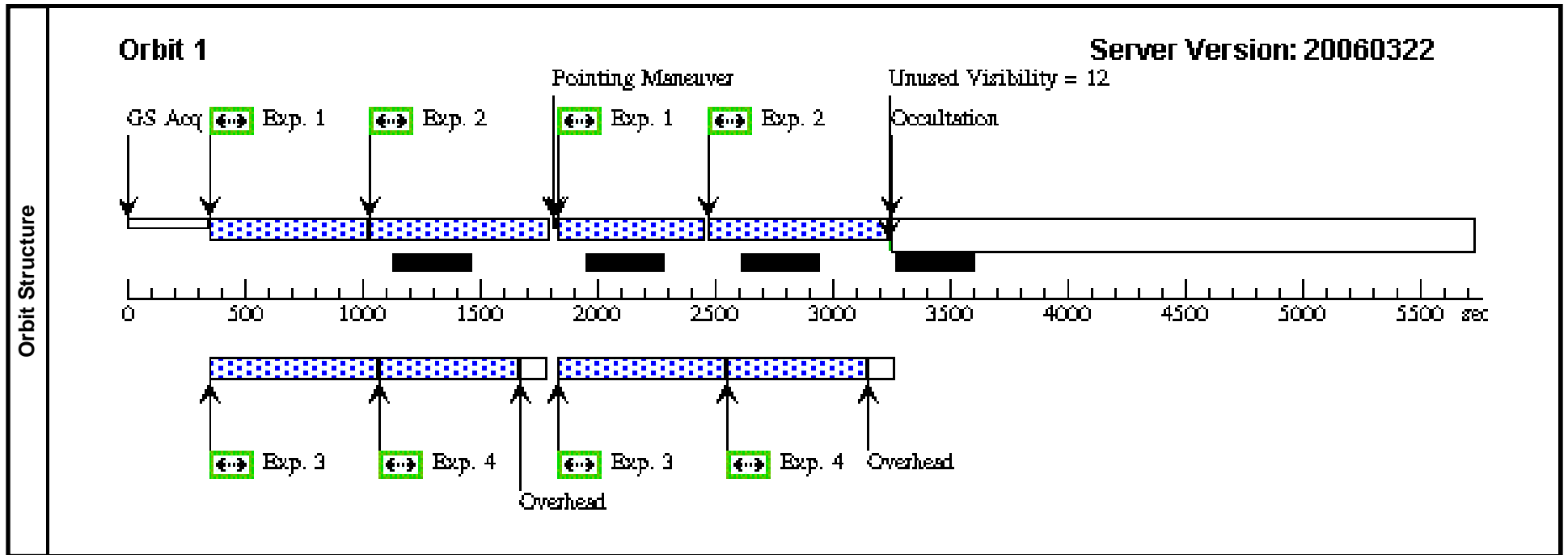
OBSERVING DESCRIPTION

Our goal is to detect globular clusters surrounding three large elliptical galaxies in "fossil" galaxy groups. We are using two filters, F475W and F850LP, to obtain color information in these objects, and these particular filters have been chosen to facilitate comparison with other studies. We have three target galaxies at different distances. The nearest (NGC 6482) requires only a single orbit of observations (split between the two filters). The second nearest (NGC 1132) requires a total of 4 orbits, and the most distant (ESO 3060170) requires 6 orbits. For the latter two galaxies, we will dither between orbits rather than during orbits.

Proposal 10558 - Visit 01 - Archaeology of Fossil Galaxy Groups

Tue Jul 18 01:05:57 GMT 2006

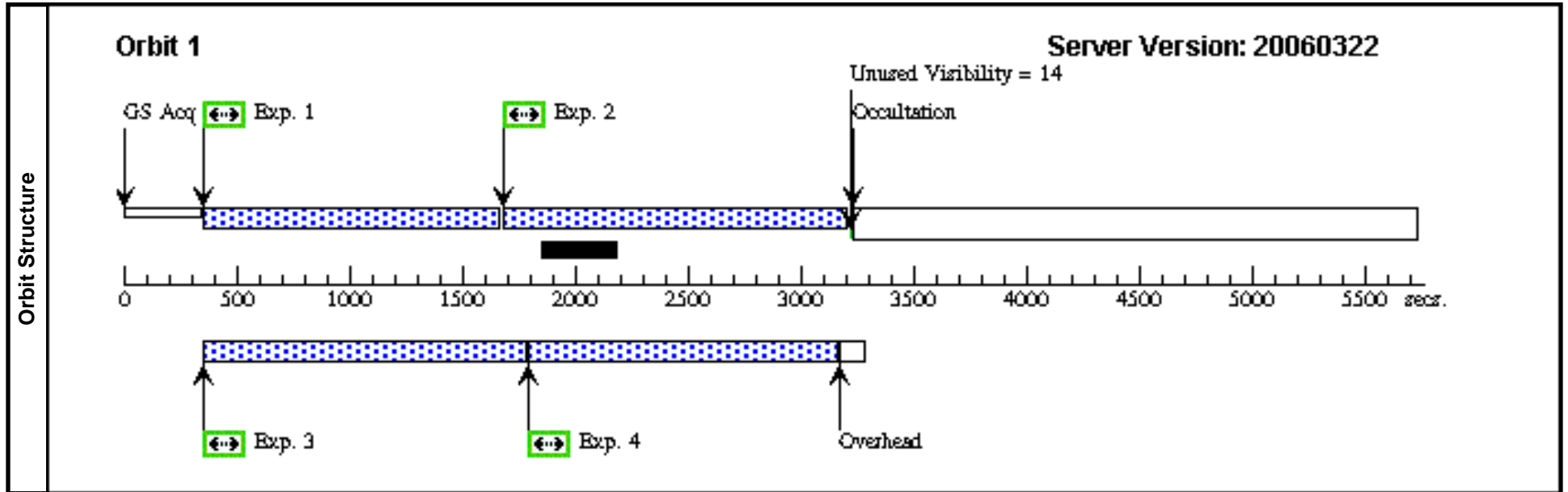
Visit	Proposal 10558, Visit 01 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFPC2 Special Requirements: ORIENT 137.0D TO 141.0 D									
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		(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false					(1-4)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-6482	RA: 17 51 48.8000 (267.9533333d) Dec: +23 04 19.00 (23.07194d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>		V=26.3+/-0.1	Coordinate Source: NED				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NGC-6482	ACS/WFC, ACCUM, WFC	F475W	CR-SPLIT=NO		Pattern 1-4 (1) Prime + Parallel Group 1-4	272.0 Secs [==>464.0 Secs (Pattern 1)] [==>464.0 Secs (Pattern 2)]	[1]
	2		(1) NGC-6482	ACS/WFC, ACCUM, WFC	F850LP	CR-SPLIT=NO		Pattern 1-4 (1) Prime + Parallel Group 1-4	408.0 Secs [==>600.0 Secs (Pattern 1)] [==>600.0 Secs (Pattern 2)]	[1]
	3		ANY	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO		Pattern 1-4 (1) Prime + Parallel Group 1-4	500.0 Secs [==>500.0 Secs (Pattern 1)] [==>500.0 Secs (Pattern 2)]	[1]
	4		ANY	WFPC2, IMAGE, WF3	F814W	CLOCKS=YES; CR-SPLIT=NO		Pattern 1-4 (1) Prime + Parallel Group 1-4	500.0 Secs [==>500.0 Secs (Pattern 1)] [==>500.0 Secs (Pattern 2)]	[1]

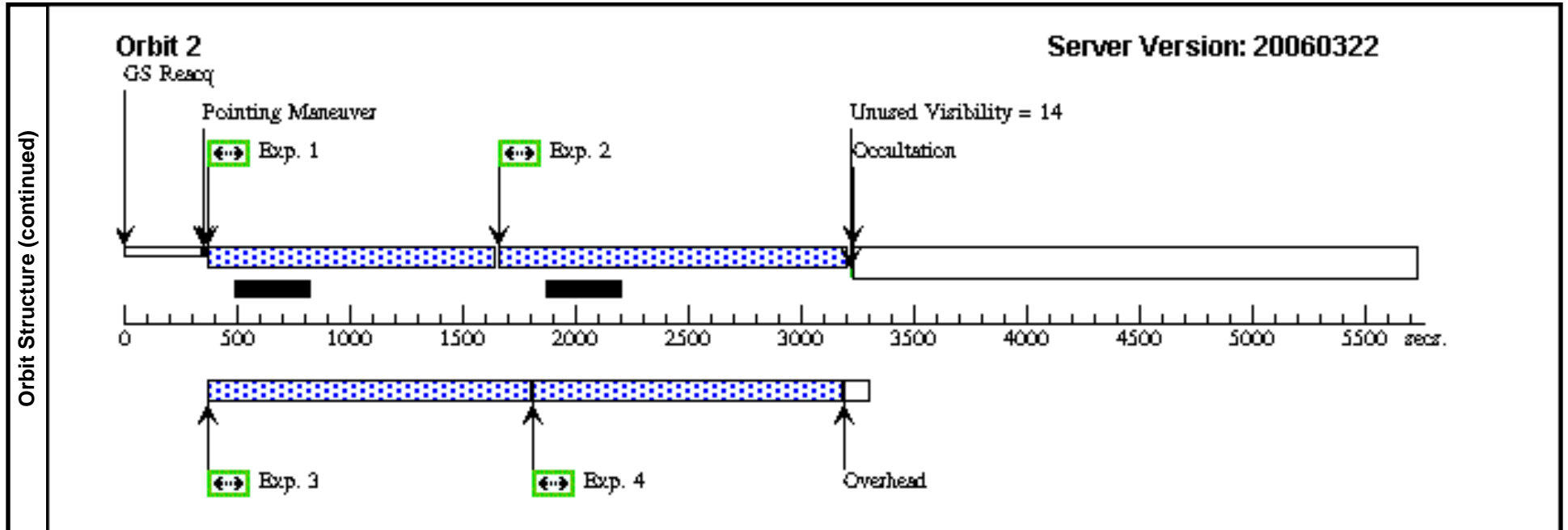


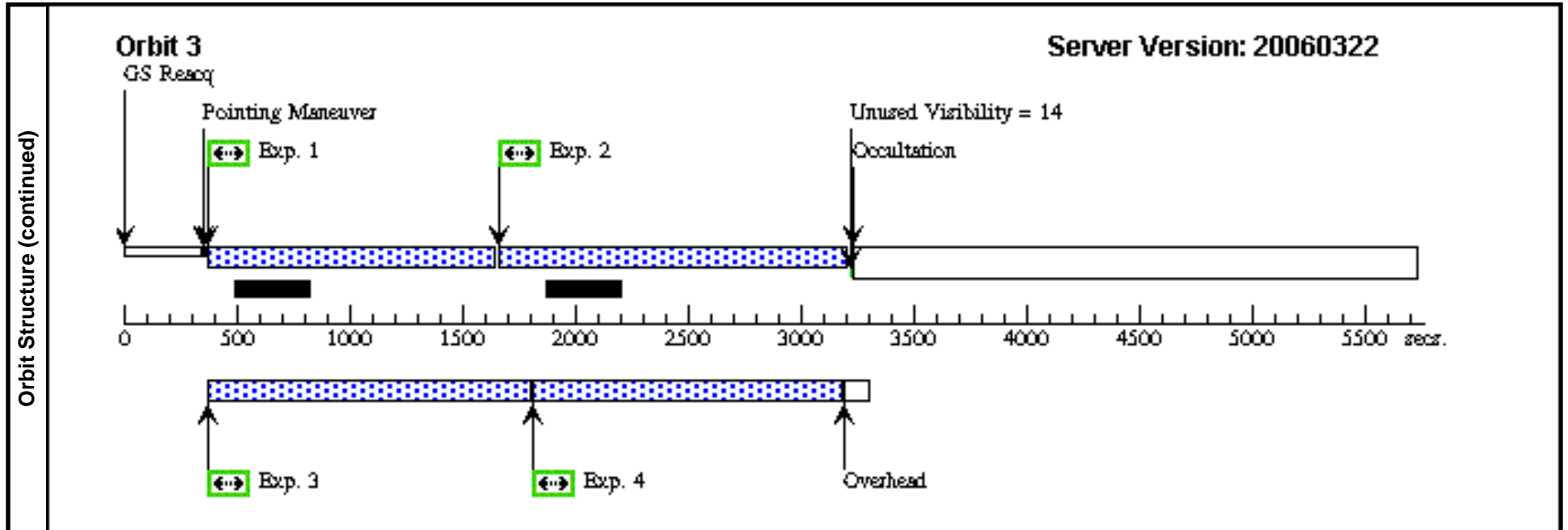
Proposal 10558 - Visit 02 - Archaeology of Fossil Galaxy Groups

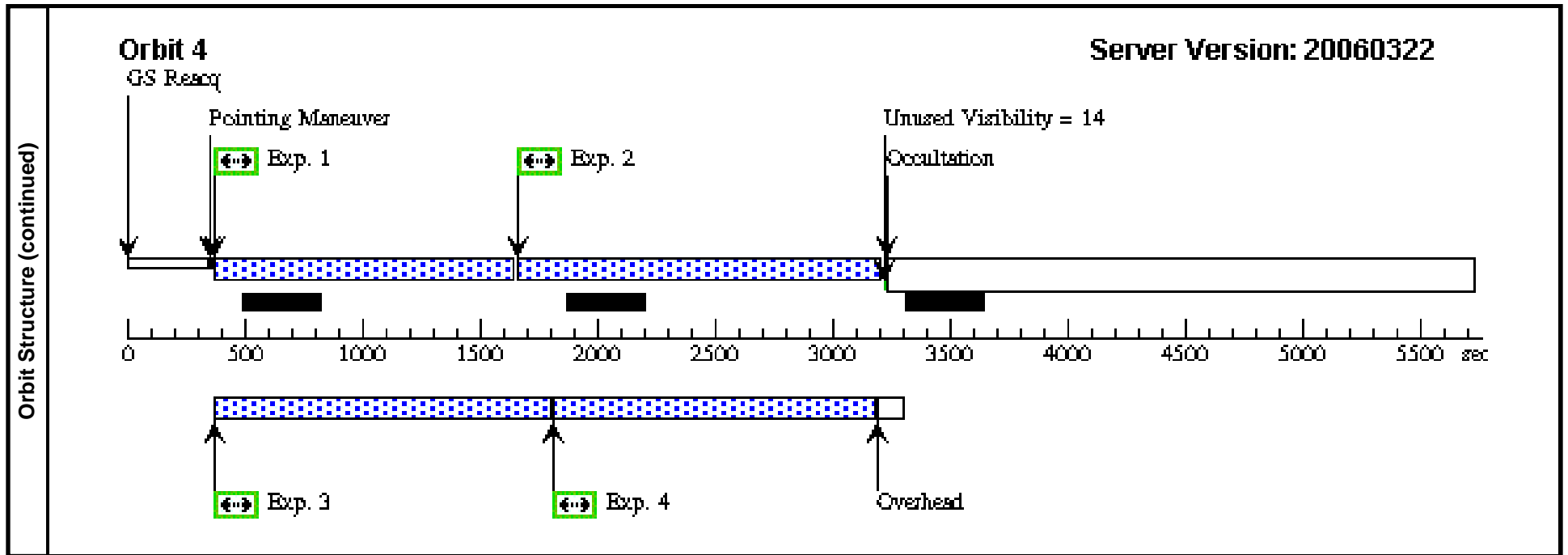
Tue Jul 18 01:05:58 GMT 2006

Visit	Proposal 10558, Visit 02 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFPC2 Special Requirements: ORIENT 270.0D TO 280.0 D									
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		(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false					(1-4)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	NGC-1132	RA: 02 52 51.1200 (43.2130000d) Dec: -01 16 12.00 (-1.27000d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>		V=27.6+/-0.1	Coordinate Source: NED				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) NGC-1132	ACS/WFC, ACCUM, WFC	F475W	CR-SPLIT=NO		Pattern 1-4 (2) Prime + Parallel Group 1-4	495.2 Secs	
									[==>1110.0 Secs (Pattern 1)]	[1]
									[==>1116.0 Secs (Pattern 2)]	[2]
									[==>1116.0 Secs (Pattern 3)]	[3]
									[==>1116.0 Secs (Pattern 4)]	[4]
	2		(2) NGC-1132	ACS/WFC, ACCUM, WFC	F850LP	CR-SPLIT=NO		Pattern 1-4 (2) Prime + Parallel Group 1-4	748.0 Secs	
									[==>1365.0 Secs (Pattern 1)]	[1]
									[==>1380.0 Secs (Pattern 2)]	[2]
									[==>1380.0 Secs (Pattern 3)]	[3]
									[==>1380.0 Secs (Pattern 4)]	[4]
	3		ANY	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO		Pattern 1-4 (2) Prime + Parallel Group 1-4	1200.0 Secs	
									[==>1200.0 Secs (Pattern 1)]	[1]
									[==>1200.0 Secs (Pattern 2)]	[2]
									[==>1200.0 Secs (Pattern 3)]	[3]
									[==>1200.0 Secs (Pattern 4)]	[4]
4		ANY	WFPC2, IMAGE, WF3	F814W	CLOCKS=YES; CR-SPLIT=NO		Pattern 1-4 (2) Prime + Parallel Group 1-4	1300.0 Secs		
								[==>1300.0 Secs (Pattern 1)]	[1]	
								[==>1300.0 Secs (Pattern 2)]	[2]	
								[==>1300.0 Secs (Pattern 3)]	[3]	
								[==>1300.0 Secs (Pattern 4)]	[4]	





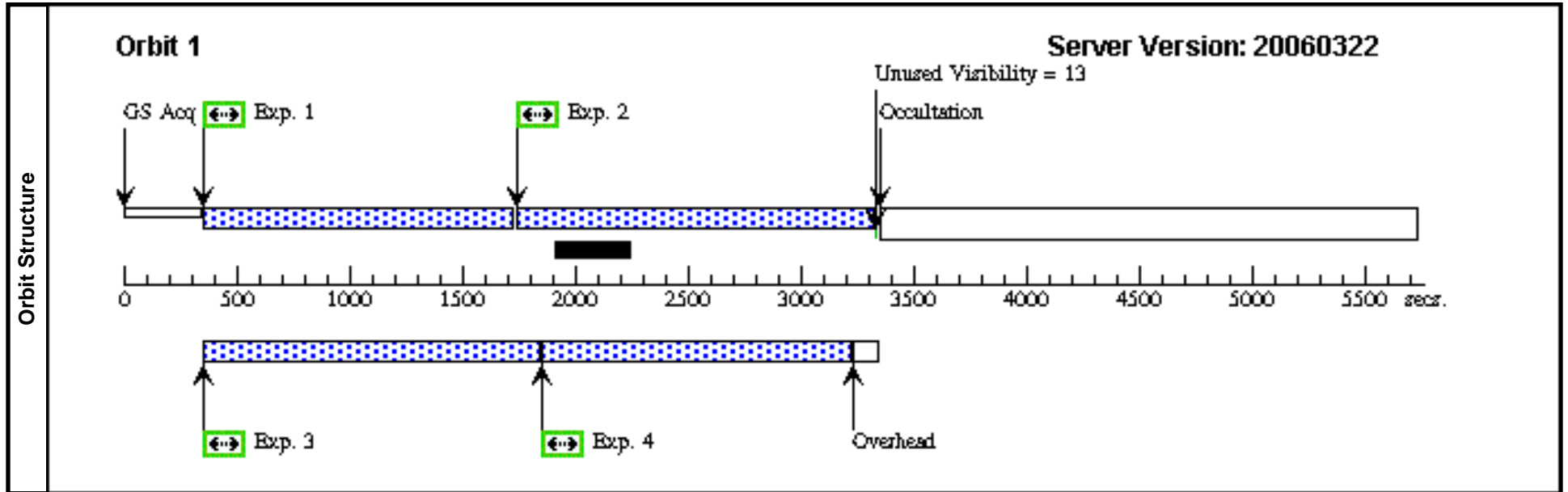


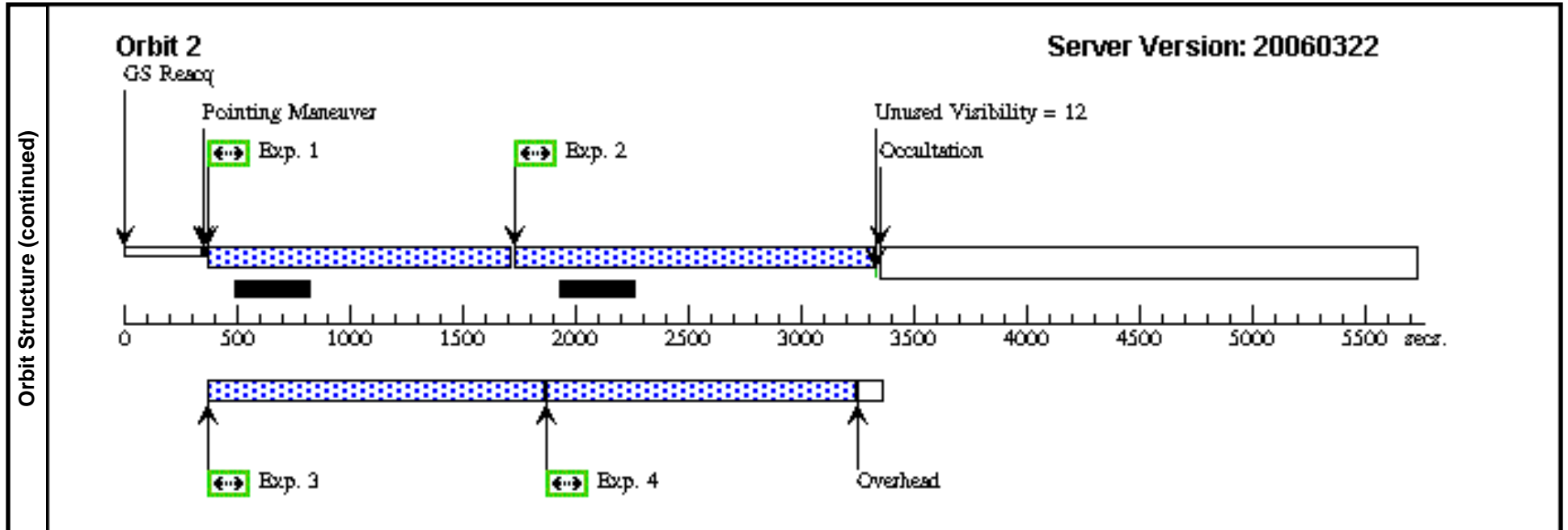


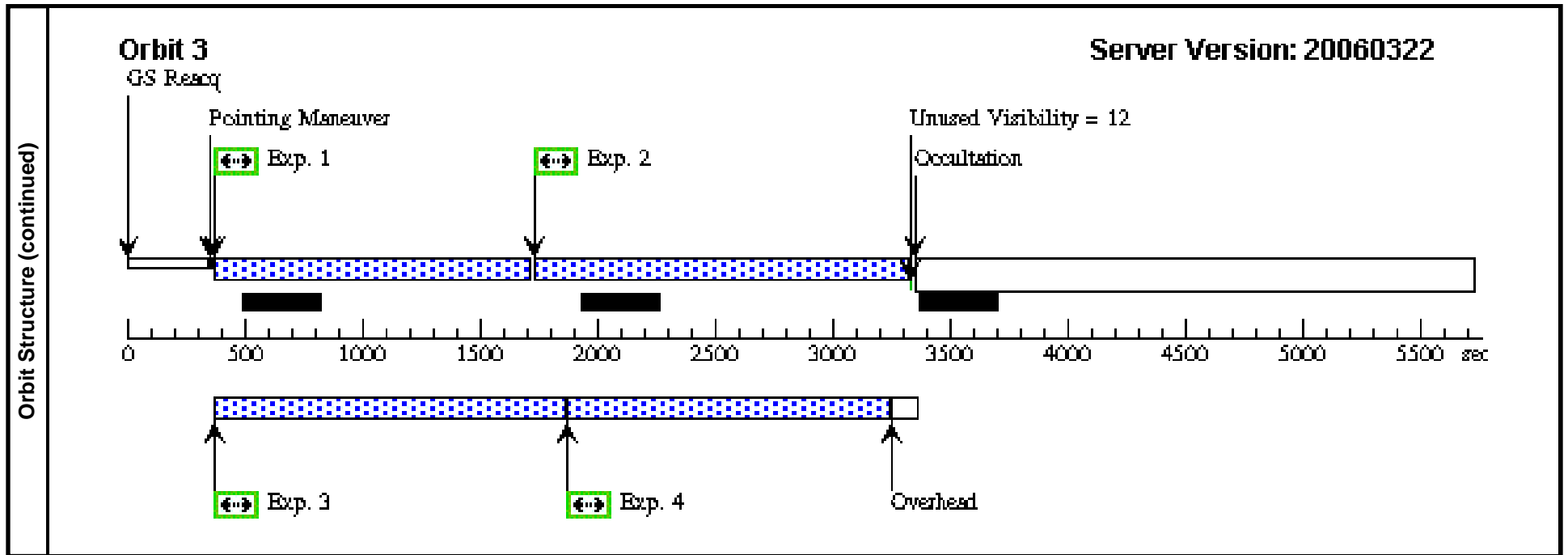
Proposal 10558 - Visit 03 - Archaeology of Fossil Galaxy Groups

Tue Jul 18 01:05:59 GMT 2006

Visit		Proposal 10558, Visit 03 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFPC2 Special Requirements: ORIENT 220.0D TO 220.0 D								
Patterns	#	Primary Pattern			Secondary Pattern			Exposures		
	(3)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false					(1-4)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	ESO-306--G-017	RA: 05 40 6.2500 (85.0260417d) Dec: -40 50 15.50 (-40.83764d) Equinox: J2000		V=28.6+/-0.1	Coordinate Source: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(3) ESO-306--G-017	ACS/WFC, ACCUM, WFC	F475W	CR-SPLIT=NO			Pattern 1-4 (3) Prime + Parallel Group 1-4	1157.0 Secs [==>1169.0 Secs (Pattern 1)] [==>1180.0 Secs (Pattern 2)] [==>1180.0 Secs (Pattern 3)]	[1] [2] [3]
	2	(3) ESO-306--G-017	ACS/WFC, ACCUM, WFC	F850LP	CR-SPLIT=NO			Pattern 1-4 (3) Prime + Parallel Group 1-4	1410.0 Secs [==>1422.0 Secs (Pattern 1)] [==>1433.0 Secs (Pattern 2)] [==>1433.0 Secs (Pattern 3)]	[1] [2] [3]
	3	ANY	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO			Pattern 1-4 (3) Prime + Parallel Group 1-4	1300.0 Secs [==>1300.0 Secs (Pattern 1)] [==>1300.0 Secs (Pattern 2)] [==>1300.0 Secs (Pattern 3)]	[1] [2] [3]
	4	ANY	WFPC2, IMAGE, WF3	F814W	CLOCKS=YES; CR-SPLIT=NO			Pattern 1-4 (3) Prime + Parallel Group 1-4	1300.0 Secs [==>1300.0 Secs (Pattern 1)] [==>1300.0 Secs (Pattern 2)] [==>1300.0 Secs (Pattern 3)]	[1] [2] [3]



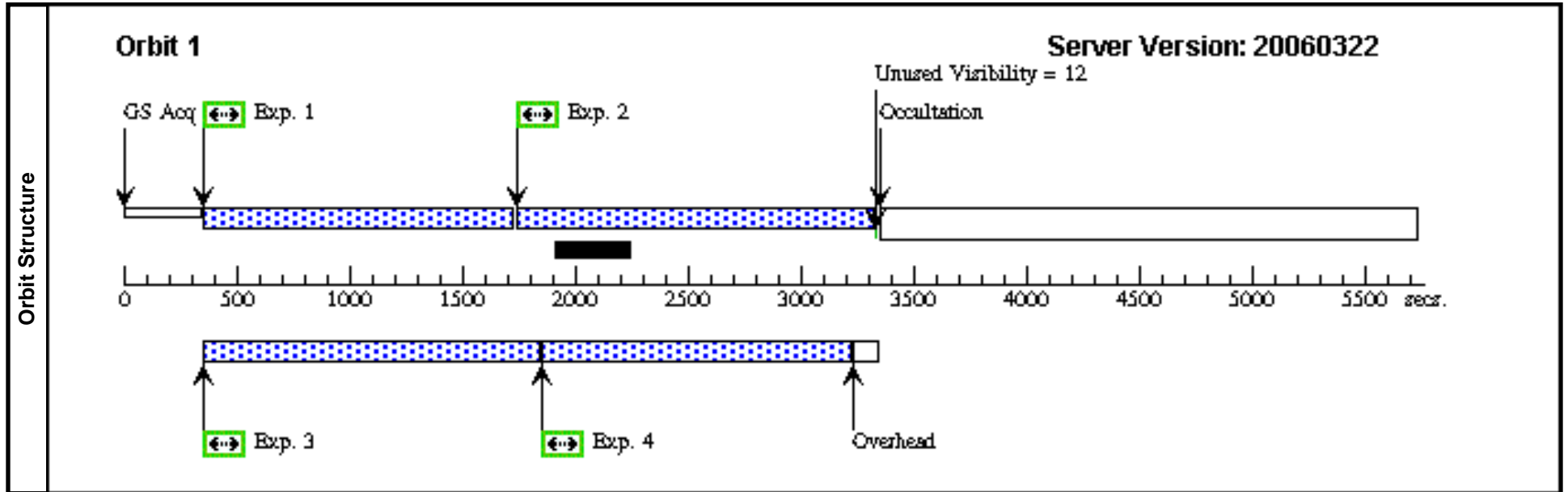


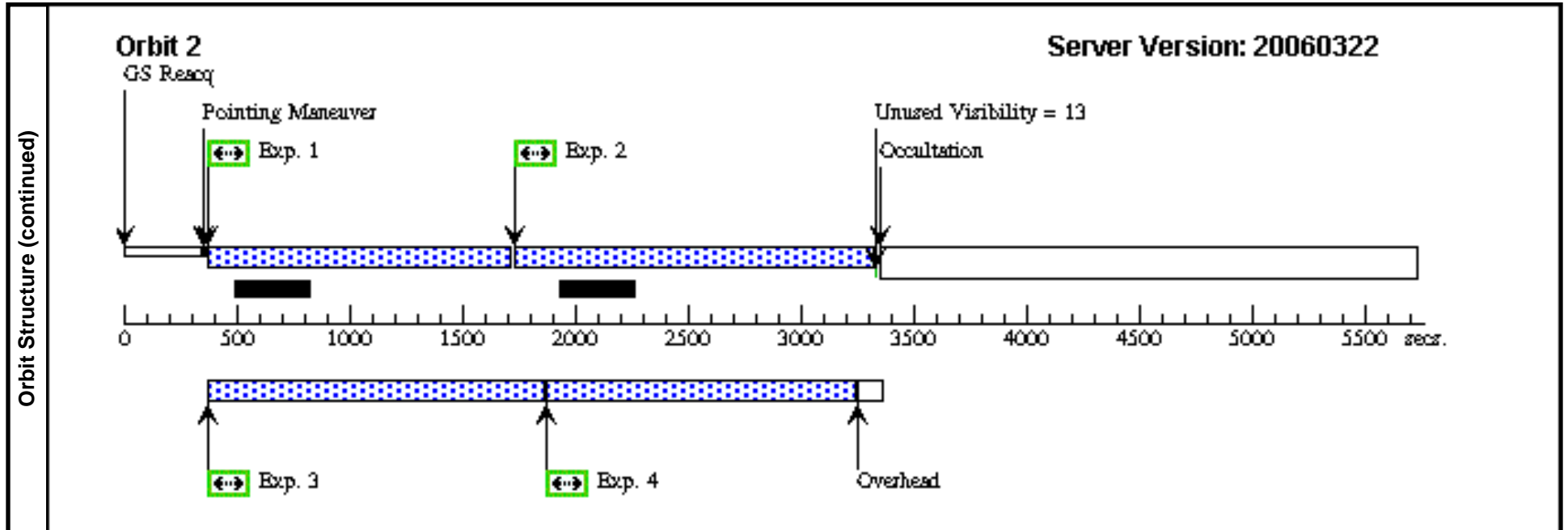


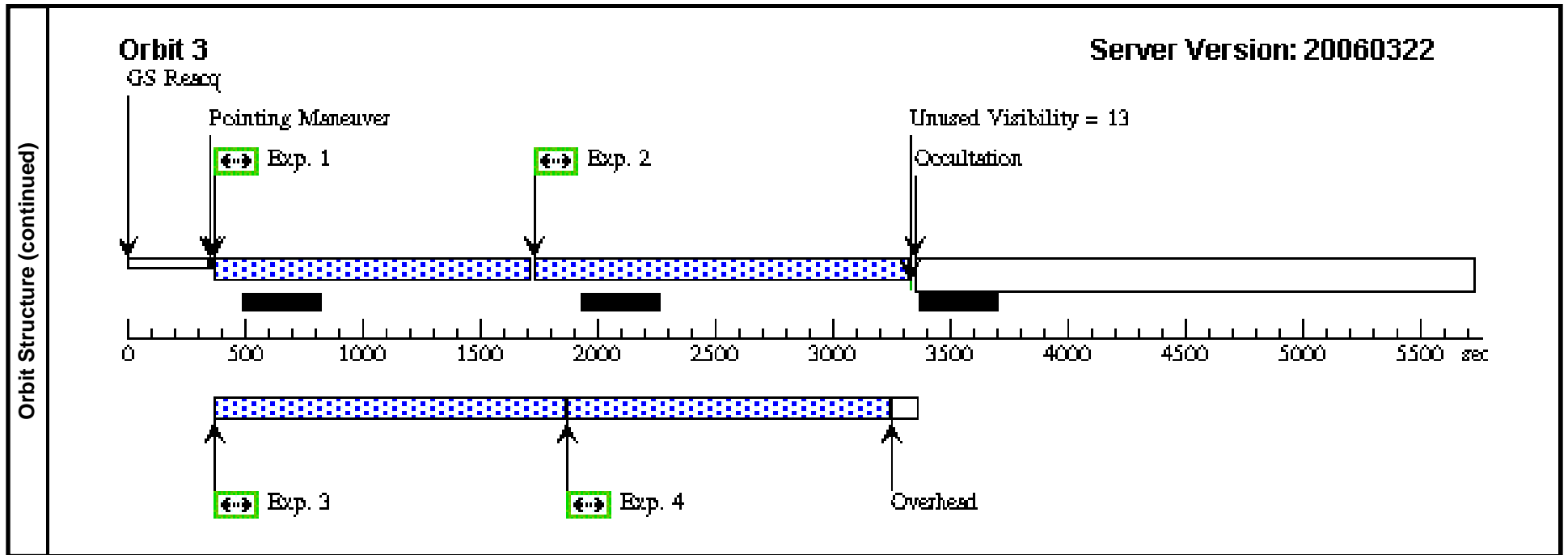
Proposal 10558 - Visit 04 - Archaeology of Fossil Galaxy Groups

Tue Jul 18 01:06:00 GMT 2006

Visit	Proposal 10558, Visit 04 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFPC2 Special Requirements: SAME ORIENT AS 03									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(3)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false					(1-4)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	ESO-306--G-017-2	RA: 05 40 6.6815 (85.0278396d) Dec: -40 50 7.91 (-40.83553d) Equinox: J2000 Comments: This object was generated by the targetselector and retrieved from the NED database.		V=28.6+/-0.1	Coordinate Source: NED				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(4) ESO-306--G-017-2	(4) ESO-306--G-017-2	ACS/WFC, ACCUM, WFC	F475W	CR-SPLIT=NO		Pattern 1-4 (3) Prime + Parallel Group 1-4	495.2 Secs [==>1169.2 Secs (Pattern 1)] [==>1179.2 Secs (Pattern 2)] [==>1179.2 Secs (Pattern 3)]	[1] [2] [3]
	2	(4) ESO-306--G-017-2	(4) ESO-306--G-017-2	ACS/WFC, ACCUM, WFC	F850LP	CR-SPLIT=NO		Pattern 1-4 (3) Prime + Parallel Group 1-4	748.0 Secs [==>1422.0 Secs (Pattern 1)] [==>1432.0 Secs (Pattern 2)] [==>1432.0 Secs (Pattern 3)]	[1] [2] [3]
	3	ANY	ANY	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO		Pattern 1-4 (3) Prime + Parallel Group 1-4	1300.0 Secs [==>1300.0 Secs (Pattern 1)] [==>1300.0 Secs (Pattern 2)] [==>1300.0 Secs (Pattern 3)]	[1] [2] [3]
	4	ANY	ANY	WFPC2, IMAGE, WF3	F814W	CLOCKS=YES; CR-SPLIT=NO		Pattern 1-4 (3) Prime + Parallel Group 1-4	1300.0 Secs [==>1300.0 Secs (Pattern 1)] [==>1300.0 Secs (Pattern 2)] [==>1300.0 Secs (Pattern 3)]	[1] [2] [3]







Proposal 10558 - Visit 12 - Archaeology of Fossil Galaxy Groups

Tue Jul 18 01:06:01 GMT 2006

Visit	Proposal 10558, Visit 12 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFPC2 Special Requirements: ORIENT 270.0D TO 280.0 D Comments: Repeat of failed visit 02									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false		(1-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	NGC-1132	RA: 02 52 51.1200 (43.2130000d) Dec: -01 16 12.00 (-1.27000d) Equinox: J2000 Comments: This object was generated by the targetselector and retrieved from the NED database.		V=27.6+/-0.1	Coordinate Source: NED				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) NGC-1132	ACS/WFC, ACCUM, WFC	F475W	CR-SPLIT=NO		Pattern 1-4 (2) Prime + Parallel Group 1-4	495.2 Secs [=>1110.0 Secs (Pattern 1)] [=>1116.0 Secs (Pattern 2)] [=>1116.0 Secs (Pattern 3)] [=>1116.0 Secs (Pattern 4)]	[1] [2] [3] [4]
	2		(2) NGC-1132	ACS/WFC, ACCUM, WFC	F850LP	CR-SPLIT=NO		Pattern 1-4 (2) Prime + Parallel Group 1-4	748.0 Secs [=>1365.0 Secs (Pattern 1)] [=>1380.0 Secs (Pattern 2)] [=>1380.0 Secs (Pattern 3)] [=>1380.0 Secs (Pattern 4)]	[1] [2] [3] [4]
	3		ANY	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO		Pattern 1-4 (2) Prime + Parallel Group 1-4	1200.0 Secs [=>1200.0 Secs (Pattern 1)] [=>1200.0 Secs (Pattern 2)] [=>1200.0 Secs (Pattern 3)] [=>1200.0 Secs (Pattern 4)]	[1] [2] [3] [4]
	4		ANY	WFPC2, IMAGE, WF3	F814W	CLOCKS=YES; CR-SPLIT=NO		Pattern 1-4 (2) Prime + Parallel Group 1-4	1300.0 Secs [=>1300.0 Secs (Pattern 1)] [=>1300.0 Secs (Pattern 2)] [=>1300.0 Secs (Pattern 3)] [=>1300.0 Secs (Pattern 4)]	[1] [2] [3] [4]

