



## 11974 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Cycle: 16, Proposal Category: GO

(Availability Mode: SUPPORTED)

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
<b>Dr. Sahar S. Allam (PI)</b>	<b>Fermi National Accelerator Laboratory (FNAL)</b>	<b>sallam@fnal.gov</b>
Dr. Huan Lin (CoI)	Fermi National Accelerator Laboratory (FNAL)	hlin@fnal.gov
Dr. Douglas L. Tucker (CoI)	Fermi National Accelerator Laboratory (FNAL)	dtucker@fnal.gov
Dr. James Annis (CoI)	Fermi National Accelerator Laboratory (FNAL)	annis@fnal.gov
Dr. H. Thomas Diehl (CoI)	Fermi National Accelerator Laboratory (FNAL)	diehl@fnal.gov
Dr. Elizabeth Buckley-Geer (CoI)	Fermi National Accelerator Laboratory (FNAL)	buckley@fnal.gov
Dr. Jeffrey Kubo (CoI)	Fermi National Accelerator Laboratory (FNAL)	kubo@fnal.gov

### 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) SDSSJ1343+4155	WFPC2	4	10-Apr-2009 21:12:46.0	yes
02	(1) SDSSJ1343+4155	WFPC2	2	10-Apr-2009 21:12:51.0	yes
03	(1) SDSSJ1343+4155	WFPC2	3	10-Apr-2009 21:12:55.0	yes
04	(2) SDSSJ1209+2640	WFPC2	4	10-Apr-2009 21:12:58.0	yes
05	(2) SDSSJ1209+2640	WFPC2	2	10-Apr-2009 21:13:02.0	yes
06	(2) SDSSJ1209+2640	WFPC2	3	10-Apr-2009 21:13:06.0	yes

Proposal 11974 (STScI Edit Number: 0, Created: Friday, April 10, 2009 8:14:27 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>
07	(3) SDSSJ1137+4936	WFPC2	4	10-Apr-2009 21:13:09.0	yes
08	(3) SDSSJ1137+4936	WFPC2	2	10-Apr-2009 21:13:12.0	yes
09	(3) SDSSJ1137+4936	WFPC2	3	10-Apr-2009 21:13:15.0	yes
10	(4) SDSSJ2111-0114	WFPC2	4	10-Apr-2009 21:13:19.0	yes
11	(4) SDSSJ2111-0114	WFPC2	2	10-Apr-2009 21:13:22.0	yes
12	(4) SDSSJ2111-0114	WFPC2	3	10-Apr-2009 21:13:25.0	yes
13	(5) SDSSJ1511+4713	WFPC2	4	10-Apr-2009 21:13:28.0	yes
14	(5) SDSSJ1511+4713	WFPC2	2	10-Apr-2009 21:13:33.0	yes
15	(5) SDSSJ1511+4713	WFPC2	3	10-Apr-2009 21:13:36.0	yes
16	(6) SDSSJ1038+4849	WFPC2	4	10-Apr-2009 21:13:40.0	yes
17	(6) SDSSJ1038+4849	WFPC2	2	10-Apr-2009 21:13:42.0	yes
18	(6) SDSSJ1038+4849	WFPC2	3	10-Apr-2009 21:13:45.0	yes
19	(7) SDSSJ1629+3528	WFPC2	4	10-Apr-2009 21:13:48.0	yes
20	(7) SDSSJ1629+3528	WFPC2	2	10-Apr-2009 21:13:51.0	yes
21	(7) SDSSJ1629+3528	WFPC2	3	10-Apr-2009 21:13:54.0	yes
22	(8) BCS2352-5453	WFPC2	4	10-Apr-2009 21:13:57.0	yes
23	(8) BCS2352-5453	WFPC2	2	10-Apr-2009 21:14:00.0	yes
24	(8) BCS2352-5453	WFPC2	3	10-Apr-2009 21:14:02.0	yes
25	(9) SDSSJ1113+2356	WFPC2	4	10-Apr-2009 21:14:05.0	yes
26	(9) SDSSJ1113+2356	WFPC2	2	10-Apr-2009 21:14:08.0	yes
27	(9) SDSSJ1113+2356	WFPC2	3	10-Apr-2009 21:14:11.0	yes
28	(5) SDSSJ1511+4713	WFPC2	4	10-Apr-2009 21:14:14.0	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>
29	(5) SDSSJ1511+4713	WFPC2	1	10-Apr-2009 21:14:16.0	yes
30	(8) BCS2352-5453	WFPC2	4	10-Apr-2009 21:14:18.0	yes
31	(8) BCS2352-5453	WFPC2	2	10-Apr-2009 21:14:21.0	yes
32	(8) BCS2352-5453	WFPC2	3	10-Apr-2009 21:14:24.0	yes

95 Total Orbits Used

### **ABSTRACT**

There are large samples of strong lenses that probe small (galaxy) scale masses (e.g., SLACS, SQLS, COSMOS). There are also large samples of strong lenses that probe large (rich cluster) scale masses (e.g., various rich Abell clusters, the Hennawi et al. 2008 SDSS sample). The sample of strong lenses that probe intermediate (group/cluster-core) scale masses, however, is sparse, and so any significant additions to this sample are important. Here we present a sample of strong lenses that not only probe these intermediate scales but are also quite bright, since the sample is based almost entirely upon data from the SDSS, a relatively shallow and poor-resolution survey, at least in comparison to most other strong lens hunting grounds, such as COSMOS and CFHTLS. What we lack are the high-resolution imaging data needed to construct detailed lensing models, to probe the mass and light profiles of the lensing galaxies and their environments, and to characterize the morphologies of the lensed (source) galaxies. Only HST can provide these data, and so we are proposing here for 81 orbits of deep WFPC2 F450W, F606W and F814W imaging, for 9 of our best and brightest intermediate-scale lensing systems with known spectroscopic redshifts and with Einstein radii between 4 and 8 arcsec.

### **OBSERVING DESCRIPTION**

Deep multi band optical imaging using WFPC2 (F450W, F606W, F814W) for bright strongly lensed Lyman Break galaxies, the SDSSJ1209+2460 arc and 8 other very bright spectroscopically confirmed lensing galaxies at redshift 1. The sample represent the brightest group-scale lens system.

### **REAL TIME JUSTIFICATION**

None

**CALIBRATION JUSTIFICATION**

None

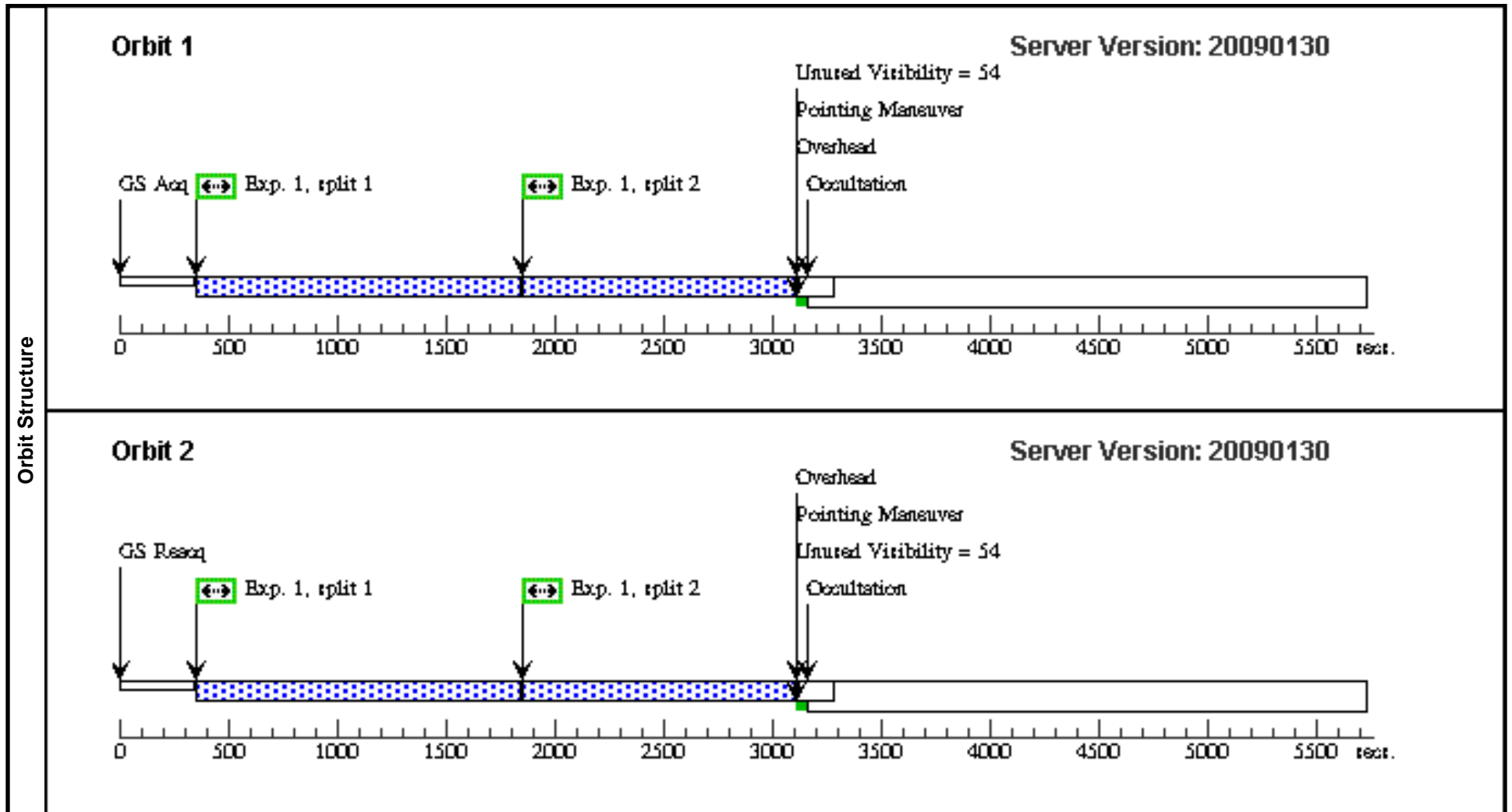
**ADDITIONAL COMMENTS**

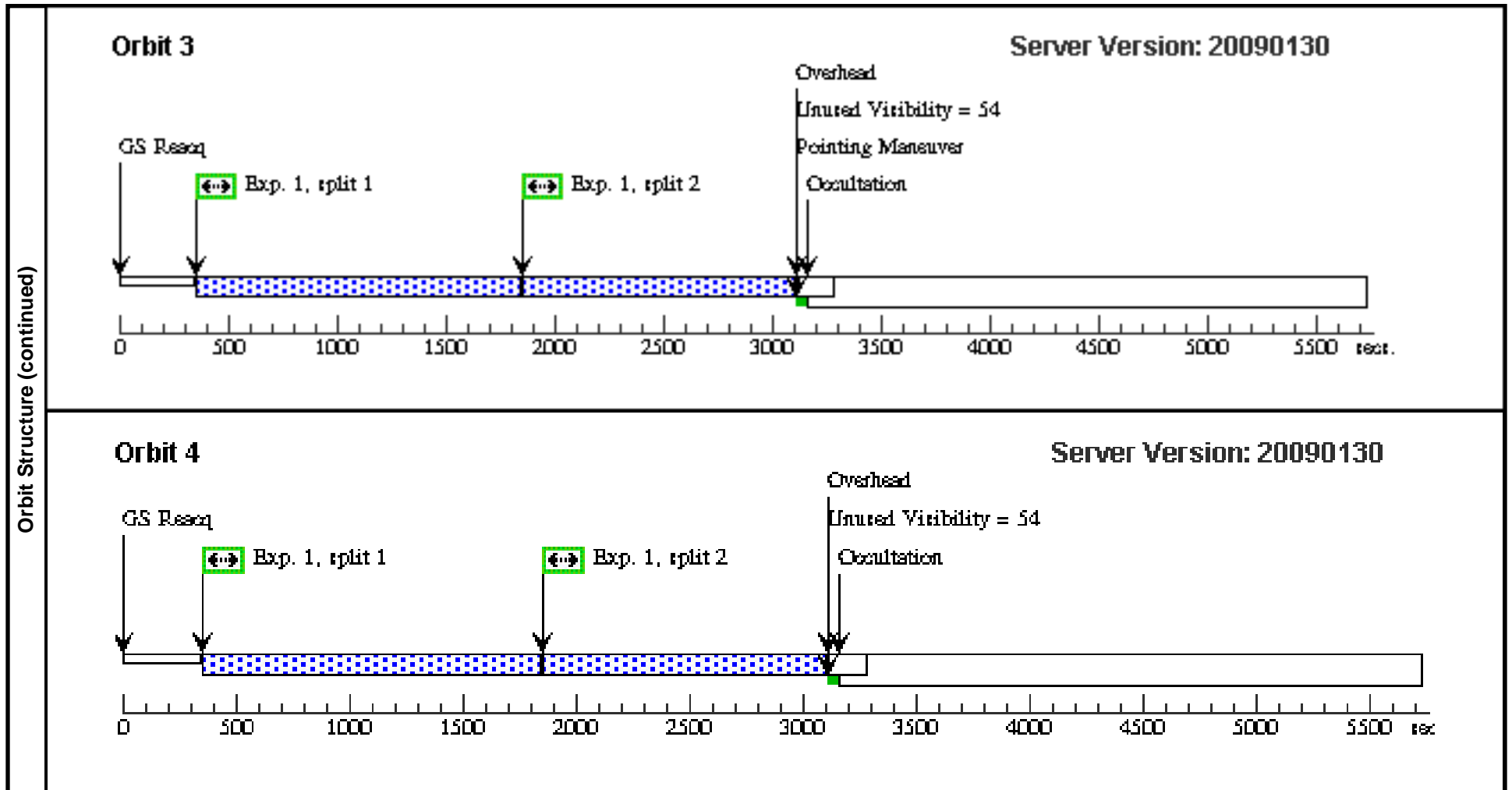
None

Proposal 11974 - Visit 01 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:28 GMT 2009

Visit	<b>Proposal 11974, Visit 01, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SDSSJ1343+4155	RA: 13 43 32.8522 (205.8868842d) Dec: +41 55 3.48 (41.91763d) Equinox: J2000	Redshift: 2.09	V=22.32+/-2.2 g= 22.90, r= 21.90* (Individual knots)	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) SDSSJ1343+4155	WFPC2, IMAGE, WF3	F450W			Pattern 1, Exps 1-1 (1)	1108 Secs	
			5						[=>1200.0 Secs (Pattern 1, Split 1)]	[1]
									[=>1200.0 Secs (Pattern 1, Split 2)]	[2]
									[=>1200.0 Secs (Pattern 2, Split 1)]	[3]
									[=>1200.0 Secs (Pattern 2, Split 2)]	[4]
									[=>1200.0 Secs (Pattern 3, Split 1)]	[5]
								[=>1200.0 Secs (Pattern 3, Split 2)]	[6]	
								[=>1200.0 Secs (Pattern 4, Split 1)]	[7]	
								[=>1200.0 Secs (Pattern 4, Split 2)]	[8]	

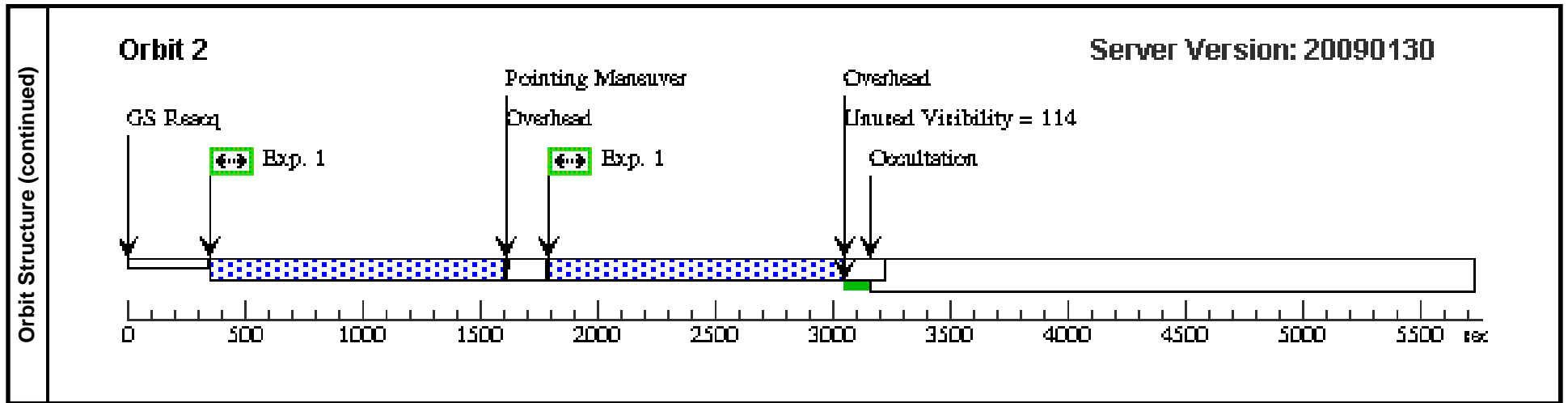




Proposal 11974 - Visit 02 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:29 GMT 2009

<b>Visit</b>	Proposal 11974, Visit 02, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>					
	(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1)					
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(1)	SDSSJ1343+4155	RA: 13 43 32.8522 (205.8868842d) Dec: +41 55 3.48 (41.91763d) Equinox: J2000	Redshift: 2.09	V=22.32+/-2.2 g= 22.90, r= 21.90* (Individual knots)	Reference Frame: ICRS				
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Req.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(1) SDSSJ1343+4155	WFPC2, IMAGE, WF3	F606W			Pattern 1, Exps 1-1 (1)	600 Secs [==>1100.0 Secs (Pattern 1)] [==>1100.0 Secs (Pattern 2)] [==>1100.0 Secs (Pattern 3)] [==>1100.0 Secs (Pattern 4)]	[1] [2]
<b>Orbit Structure</b>	<b>Orbit 1</b>									



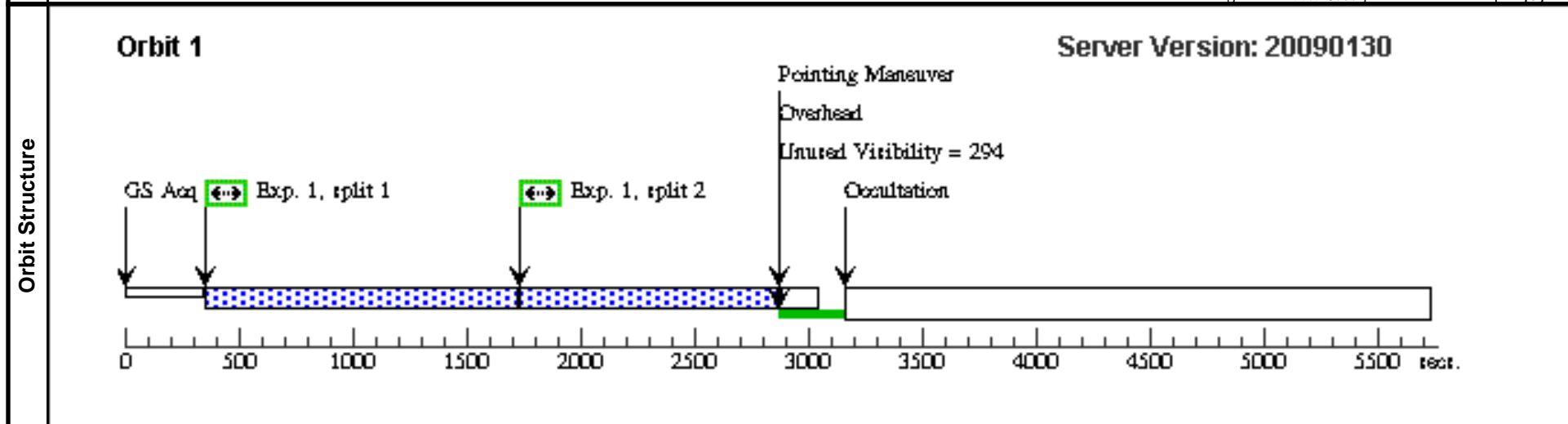
Proposal 11974 - Visit 03 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

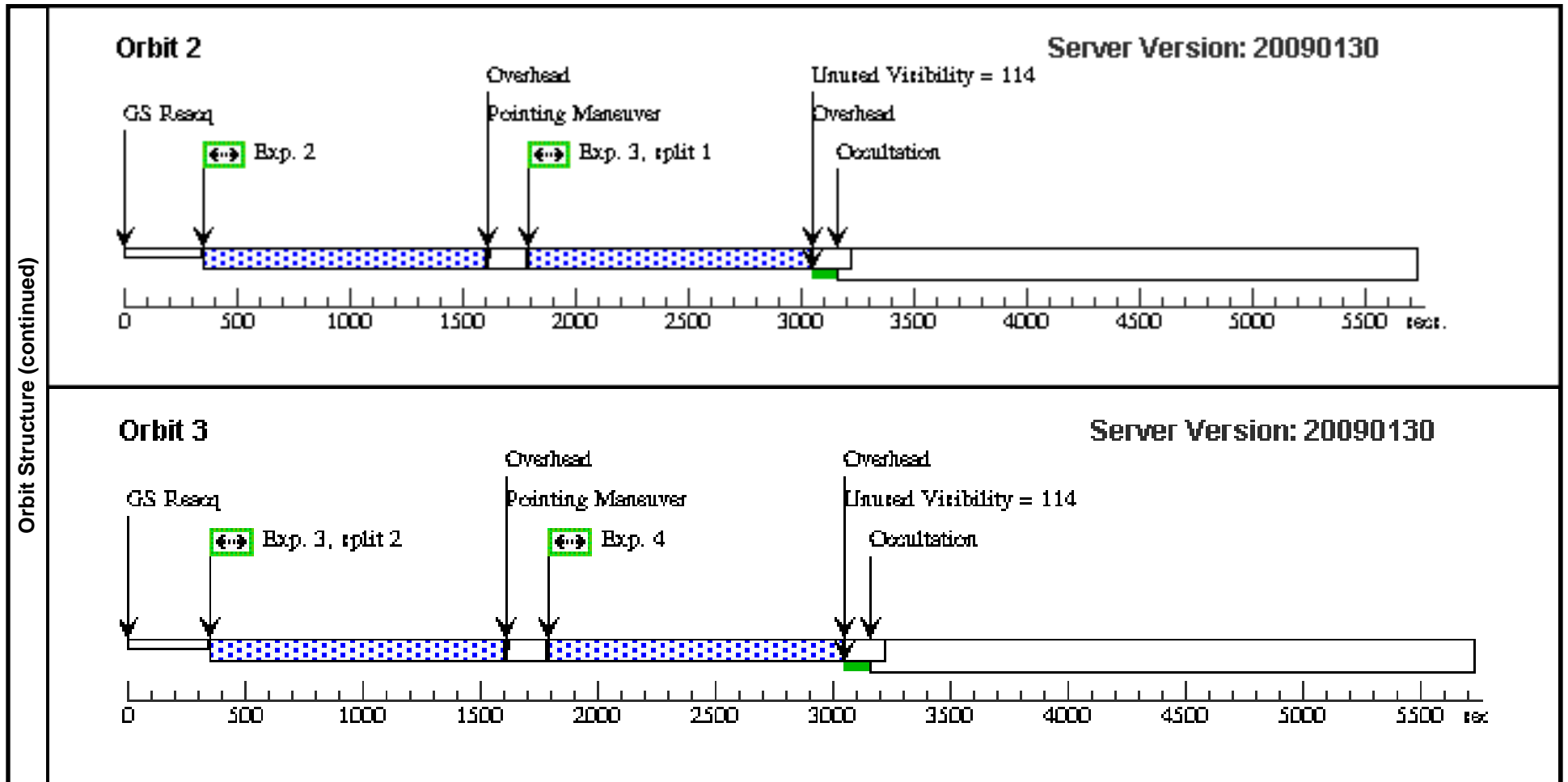
Sat Apr 11 01:14:30 GMT 2009

<b>Visit</b>	Proposal 11974, Visit 03, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFPC2				
	Special Requirements: SAME ORIENT AS 01				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	SDSSJ1343+4155	RA: 13 43 32.8522 (205.8868842d) Dec: +41 55 3.48 (41.91763d) Equinox: J2000	Redshift: 2.09	V=22.32+/-2.2 g= 22.90, r= 21.90* (Individual knots)	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) 5	SDSSJ1343+415	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=.5	POS TARG 0,0		2300 Secs	[1]
									[=>1100.0 Secs (Split 1)]	
									[=>1100.0 Secs (Split 2)]	
	2	(1) 5	SDSSJ1343+415	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO	POS TARG 0.747,0.747		1150 Secs	[2]
									[=>1100.0 Secs ]	
	3	(1) 5	SDSSJ1343+415	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=.5	POS TARG 0,0		2300 Secs	[2]
									[=>1100.0 Secs (Split 1)]	
									[=>1100.0 Secs (Split 2)]	
4	(1) 5	SDSSJ1343+415	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO	POS TARG 0.249,0.489		1150 Secs	[3]	
								[=>1100.0 Secs ]		

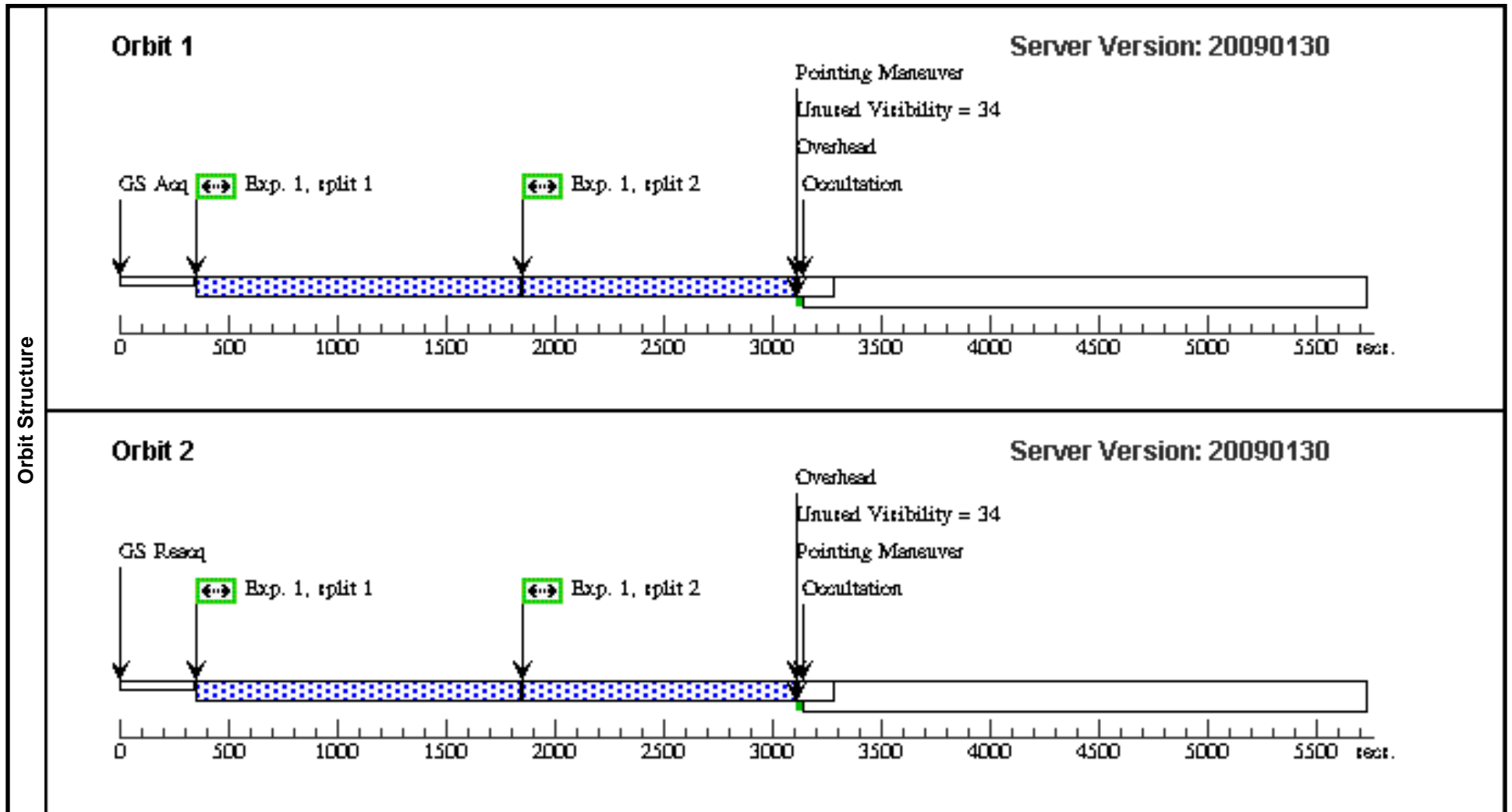


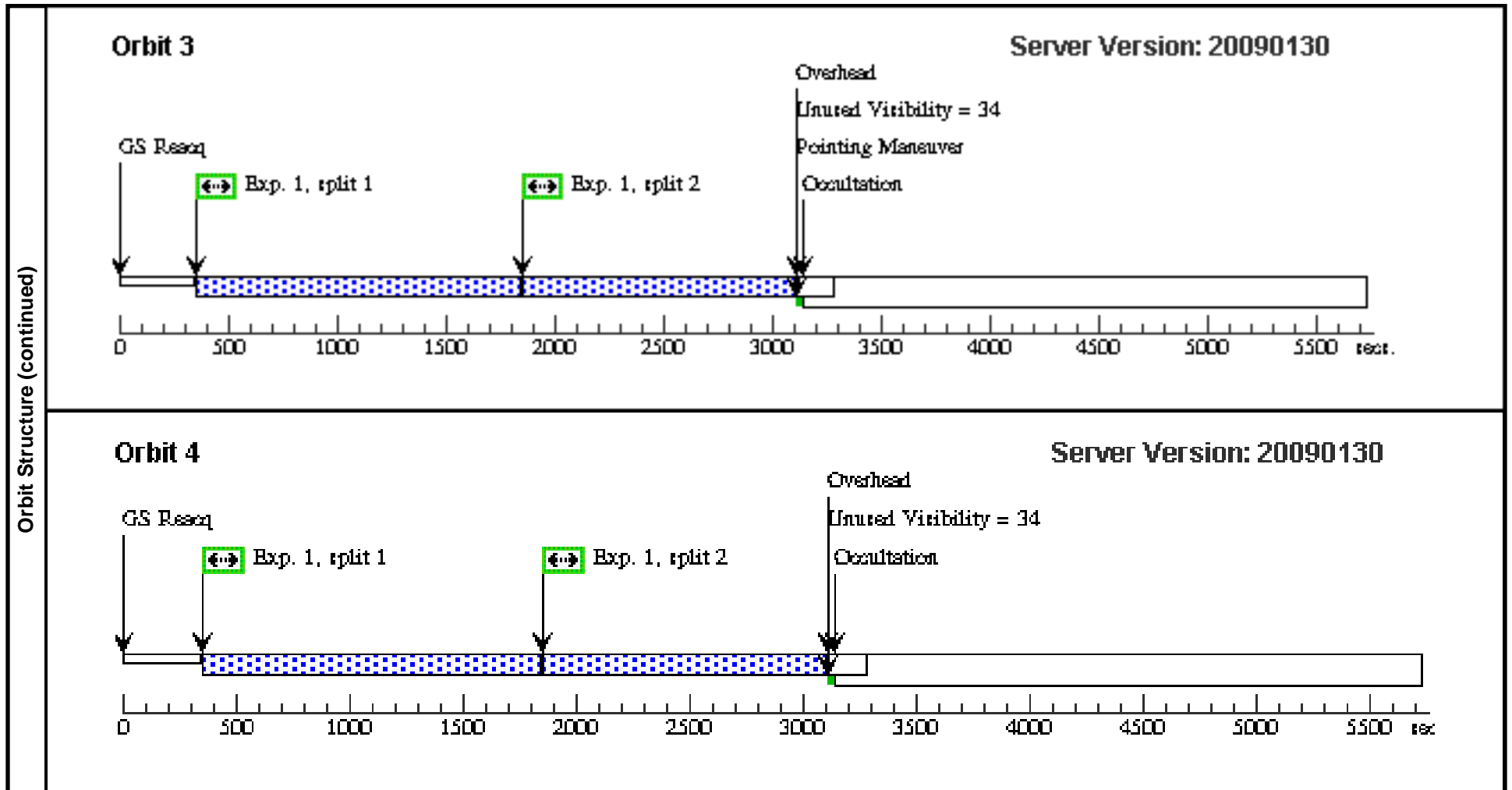


Proposal 11974 - Visit 04 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:30 GMT 2009

Visit	<b>Proposal 11974, Visit 04, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	SDSSJ1209+2640	RA: 12 09 23.7000 (182.3487500d) Dec: +26 40 47.00 (26.67972d) Equinox: J2000	Redshift: 1.41	V=22.11+/-2.2 g= 22.32, r= 22.67*	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) SDSSJ1209+2640	WFPC2, IMAGE, WF3	F450W			Pattern 1, Exps 1-1 (1)	1108 Secs	
			0						[=>1200.0 Secs (Pattern 1, Split 1)]	[1]
									[=>1200.0 Secs (Pattern 1, Split 2)]	[2]
									[=>1200.0 Secs (Pattern 2, Split 1)]	[3]
									[=>1200.0 Secs (Pattern 2, Split 2)]	[4]
									[=>1200.0 Secs (Pattern 3, Split 1)]	[5]
								[=>1200.0 Secs (Pattern 3, Split 2)]	[6]	
								[=>1200.0 Secs (Pattern 4, Split 1)]	[7]	
								[=>1200.0 Secs (Pattern 4, Split 2)]	[8]	

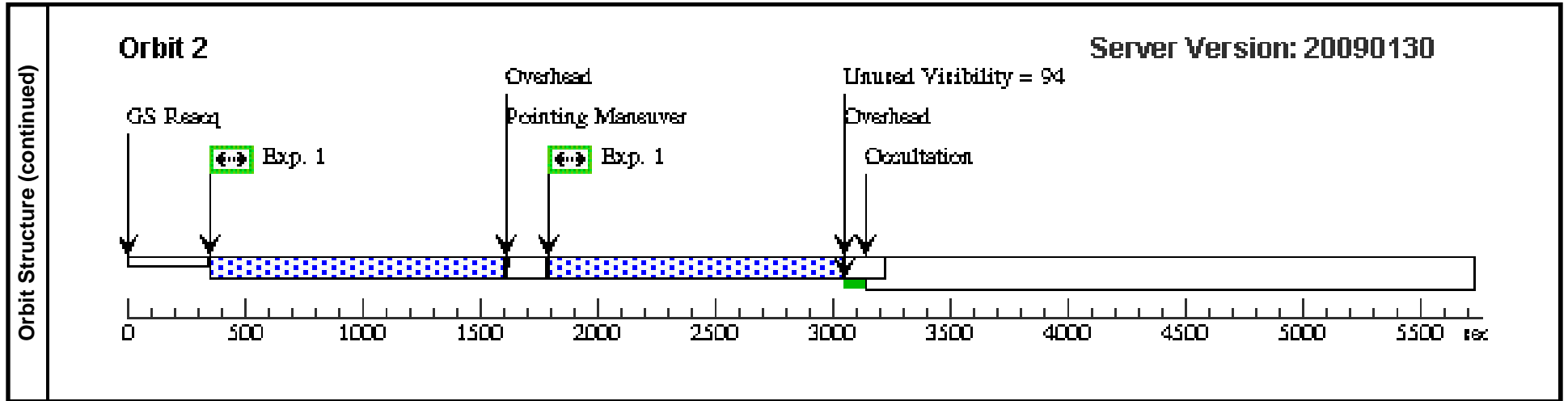




Proposal 11974 - Visit 05 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:31 GMT 2009

<b>Visit</b>	Proposal 11974, Visit 05, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 04									
	<b>Patterns</b>	# <b>Primary Pattern</b> (1) Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false	<b>Secondary Pattern</b>	<b>Exposures</b> (1)					
<b>Fixed Targets</b>	#	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(2)	SDSSJ1209+2640	RA: 12 09 23.7000 (182.3487500d) Dec: +26 40 47.00 (26.67972d) Equinox: J2000	Redshift: 1.41	V=22.11+/-2.2 g= 22.32, r= 22.67*	Reference Frame: ICRS				
<b>Exposures</b>	#	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	(2) SDSSJ1209+2640	WFPC2, IMAGE, WF3	F606W				Pattern 1, Exps 1-1 (1)	600 Secs [=>1100.0 Secs (Pattern 1)] [=>1100.0 Secs (Pattern 2)] [=>1100.0 Secs (Pattern 3)] [=>1100.0 Secs (Pattern 4)]	[1] [2]
<b>Orbit Structure</b>	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20090130</b></span></p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. A blue dotted bar represents the observation period. Key events are marked with arrows and labels: GS Acq at ~300s, Exp. 1 (green box) at ~400s, Overhead and Pointing Maneuver at ~1600s, another Exp. 1 (green box) at ~1800s, and a final Overhead, Pointing Maneuver, and Occultation at ~3100s. A green bar at the end of the observation period is labeled 'Unused Visibility = 94'.</p>									



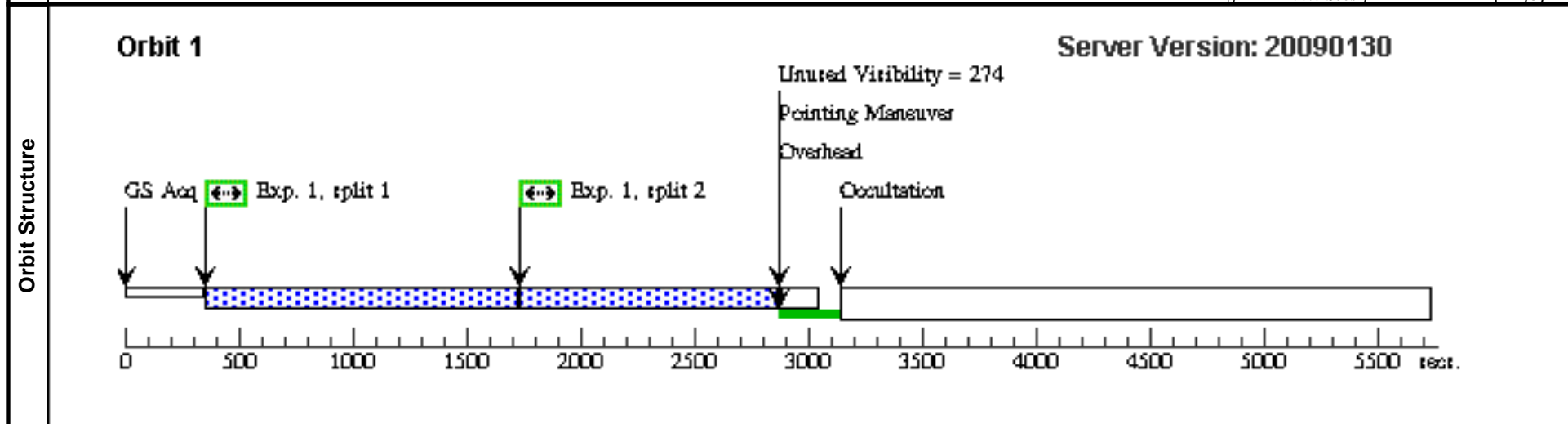
Proposal 11974 - Visit 06 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

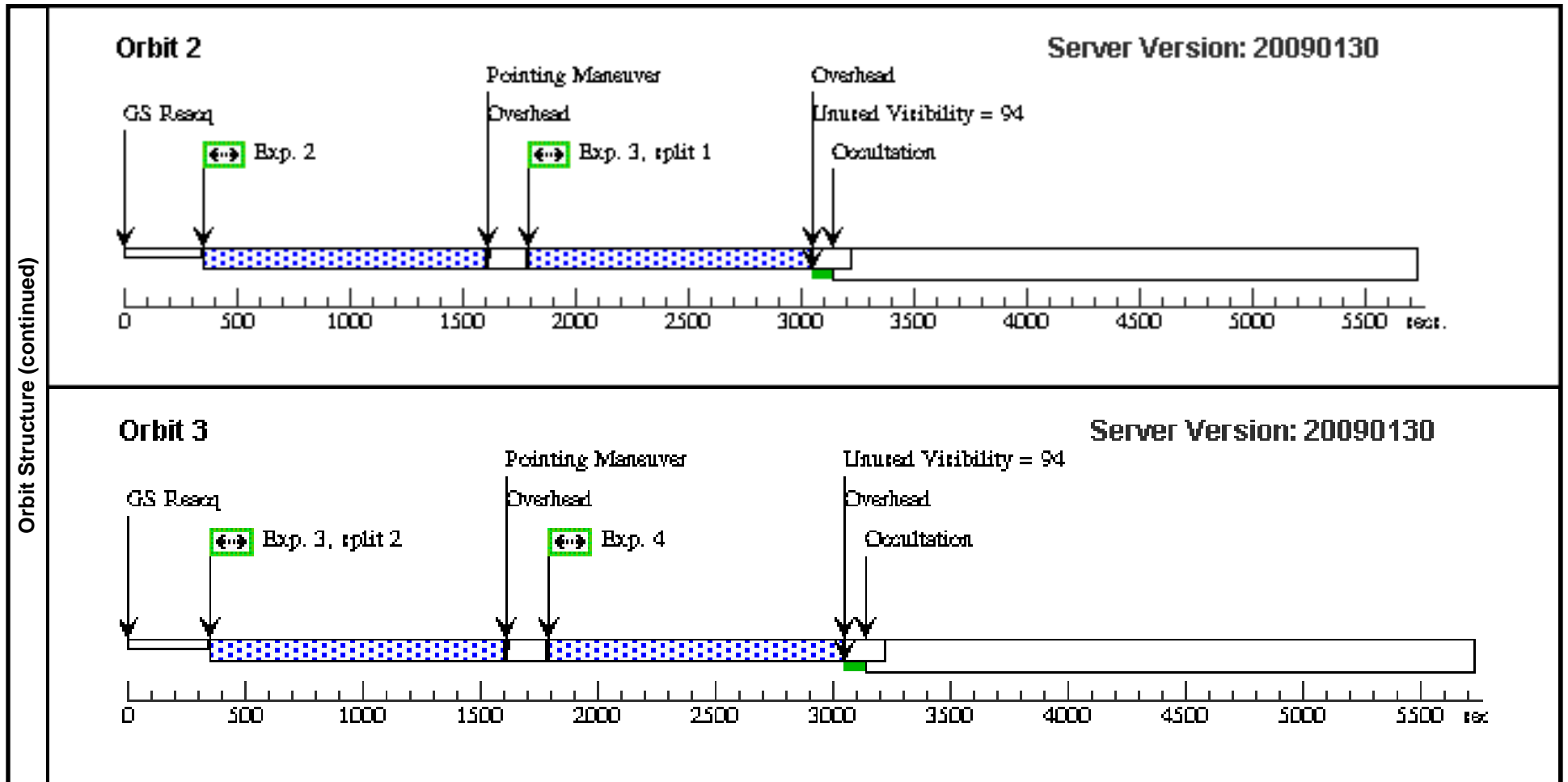
Sat Apr 11 01:14:31 GMT 2009

<b>Visit</b>	Proposal 11974, Visit 06, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFPC2				
	Special Requirements: SAME ORIENT AS 04				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	SDSSJ1209+2640	RA: 12 09 23.7000 (182.3487500d) Dec: +26 40 47.00 (26.67972d) Equinox: J2000	Redshift: 1.41	V=22.11+/-2.2 g= 22.32, r= 22.67*	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) SDSSJ1209+2640	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=.5	POS TARG 0,0		2300 Secs [=>1100.0 Secs (Split 1)] [=>1100.0 Secs (Split 2)]	[1]
	2		(2) SDSSJ1209+2640	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO	POS TARG 0.747,0.747		1150 Secs [=>1100.0 Secs ]	[2]
	3		(2) SDSSJ1209+2640	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=.5	POS TARG 0,0		2300 Secs [=>1100.0 Secs (Split 1)] [=>1100.0 Secs (Split 2)]	[2] [3]
	4		(2) SDSSJ1209+2640	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO	POS TARG 0.249,0.489		1150 Secs [=>1100.0 Secs ]	[3]

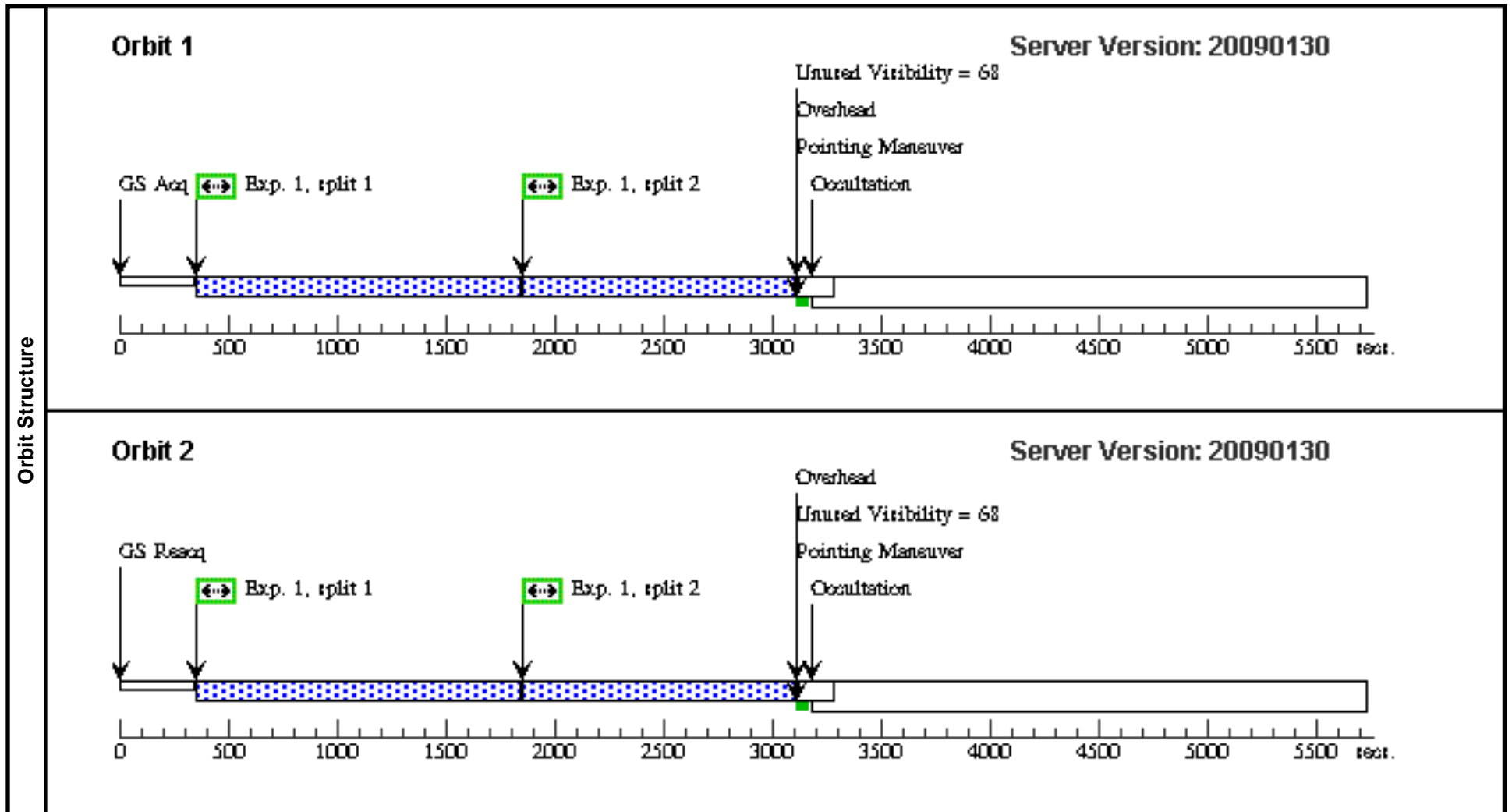


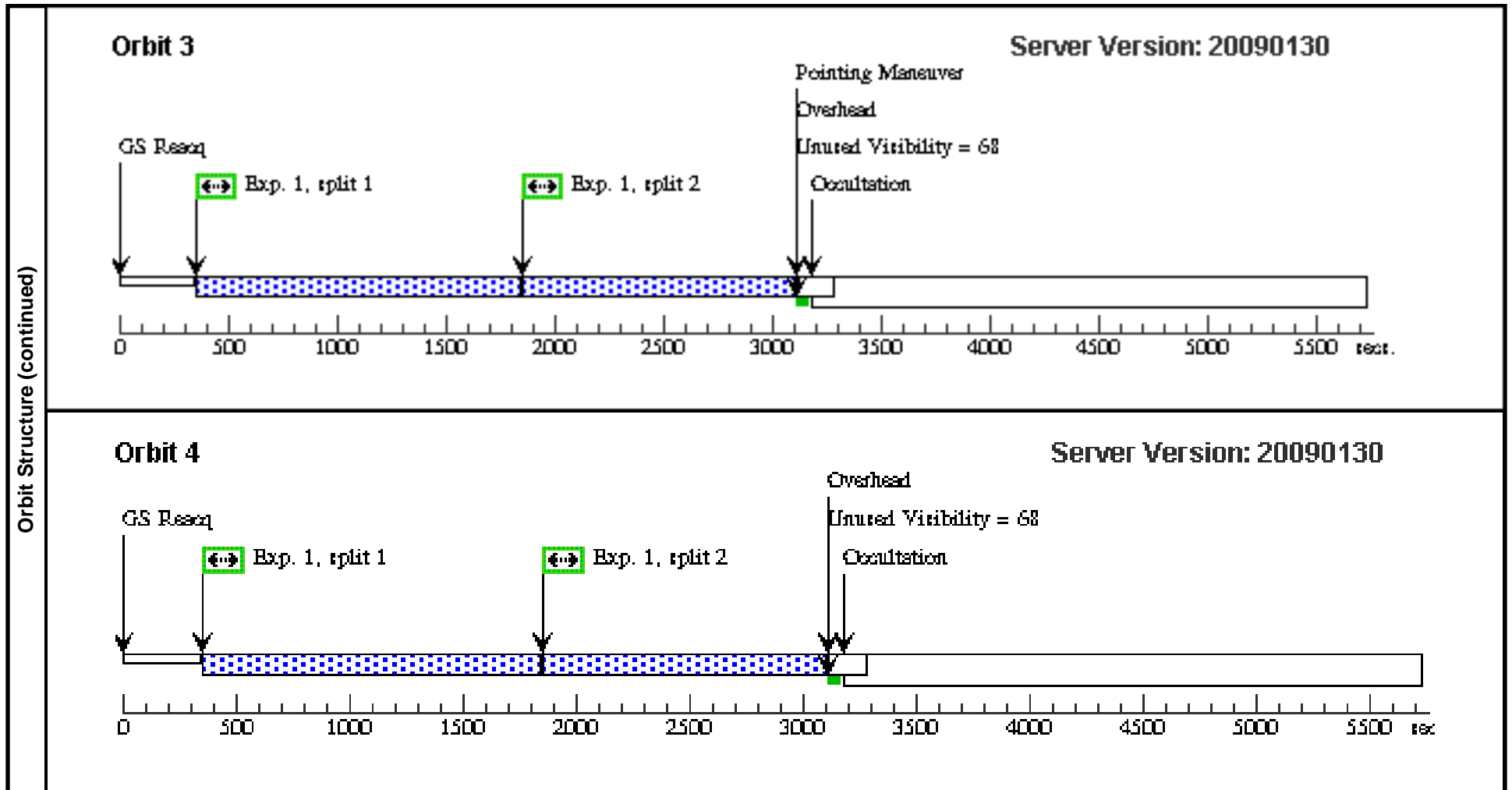


Proposal 11974 - Visit 07 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:32 GMT 2009

Visit	Proposal 11974, Visit 07, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	SDSSJ1137+4936	RA: 11 37 40.0560 (174.4169000d) Dec: +49 36 35.64 (49.60990d) Equinox: J2000	Redshift: 1.02	V=20.46+/-2.0 g= 20.50, r= 20.43*	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) SDSSJ1137+4936	WFPC2, IMAGE, WF3	F450W			Pattern 1, Exps 1-1 (1)	1108 Secs	
			6						[=>1200.0 Secs (Pattern 1, Split 1)]	[1]
									[=>1200.0 Secs (Pattern 1, Split 2)]	[2]
									[=>1200.0 Secs (Pattern 2, Split 1)]	[2]
									[=>1200.0 Secs (Pattern 2, Split 2)]	[3]
									[=>1200.0 Secs (Pattern 3, Split 1)]	[3]
								[=>1200.0 Secs (Pattern 3, Split 2)]	[4]	
								[=>1200.0 Secs (Pattern 4, Split 1)]	[4]	
								[=>1200.0 Secs (Pattern 4, Split 2)]		

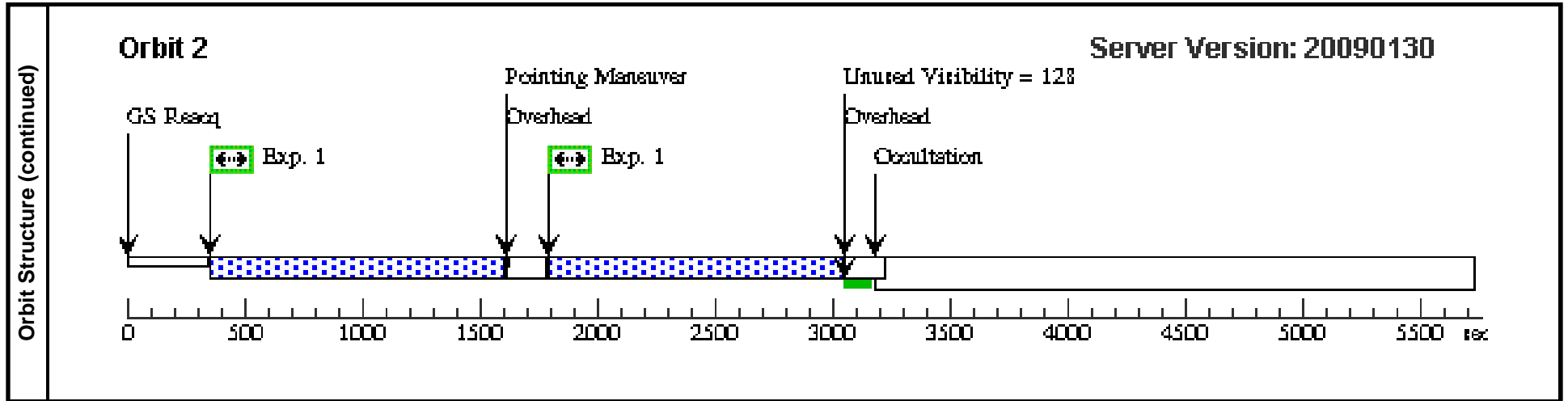




Proposal 11974 - Visit 08 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:32 GMT 2009

<b>Visit</b>	Proposal 11974, Visit 08, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 07									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>					
	(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1)					
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(3)	SDSSJ1137+4936	RA: 11 37 40.0560 (174.4169000d) Dec: +49 36 35.64 (49.60990d) Equinox: J2000	Redshift: 1.02	V=20.46+/-2.0 g= 20.50, r= 20.43*	Reference Frame: ICRS				
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(3) SDSSJ1137+4936	WFPC2, IMAGE, WF3	F606W			Pattern 1, Exps 1-1 (1)	600 Secs	
		6							[=>1100.0 Secs (Pattern 1)] [=>1100.0 Secs (Pattern 2)] [=>1100.0 Secs (Pattern 3)] [=>1100.0 Secs (Pattern 4)]	[1]  [2]
<b>Orbit Structure</b>	<b>Orbit 1</b> <span style="float: right;">Server Version: 20090130</span>									
	<p>Diagram illustrating the Orbit Structure for Orbit 1, showing the timeline of observations and maneuvers. The x-axis represents time in seconds, ranging from 0 to 5500. Key events include GS Acq (Green Start Acquisition) at approximately 200 seconds, followed by Exp. 1 (Exposure 1) at approximately 400 seconds. A Pointing Maneuver Overhead occurs at approximately 1600 seconds, followed by another Exp. 1 at approximately 1800 seconds. A second Pointing Maneuver Overhead occurs at approximately 3000 seconds, followed by Occultation at approximately 3100 seconds. A green bar indicates Unused Visibility = 128 seconds from approximately 3100 to 3200 seconds. The observation period is shown as a blue dotted bar from approximately 400 to 3100 seconds.</p>									



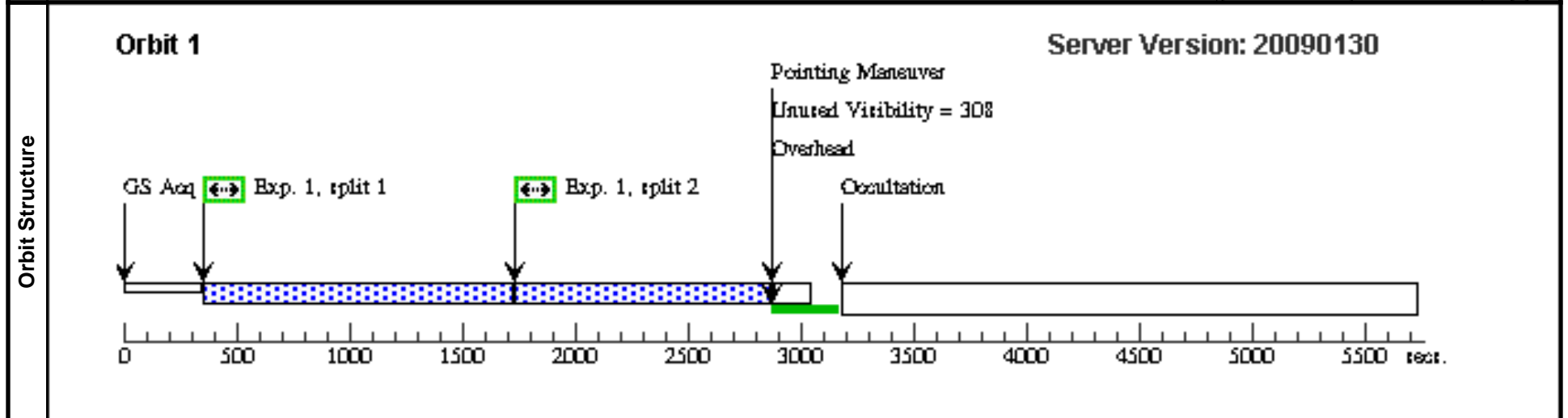
Proposal 11974 - Visit 09 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

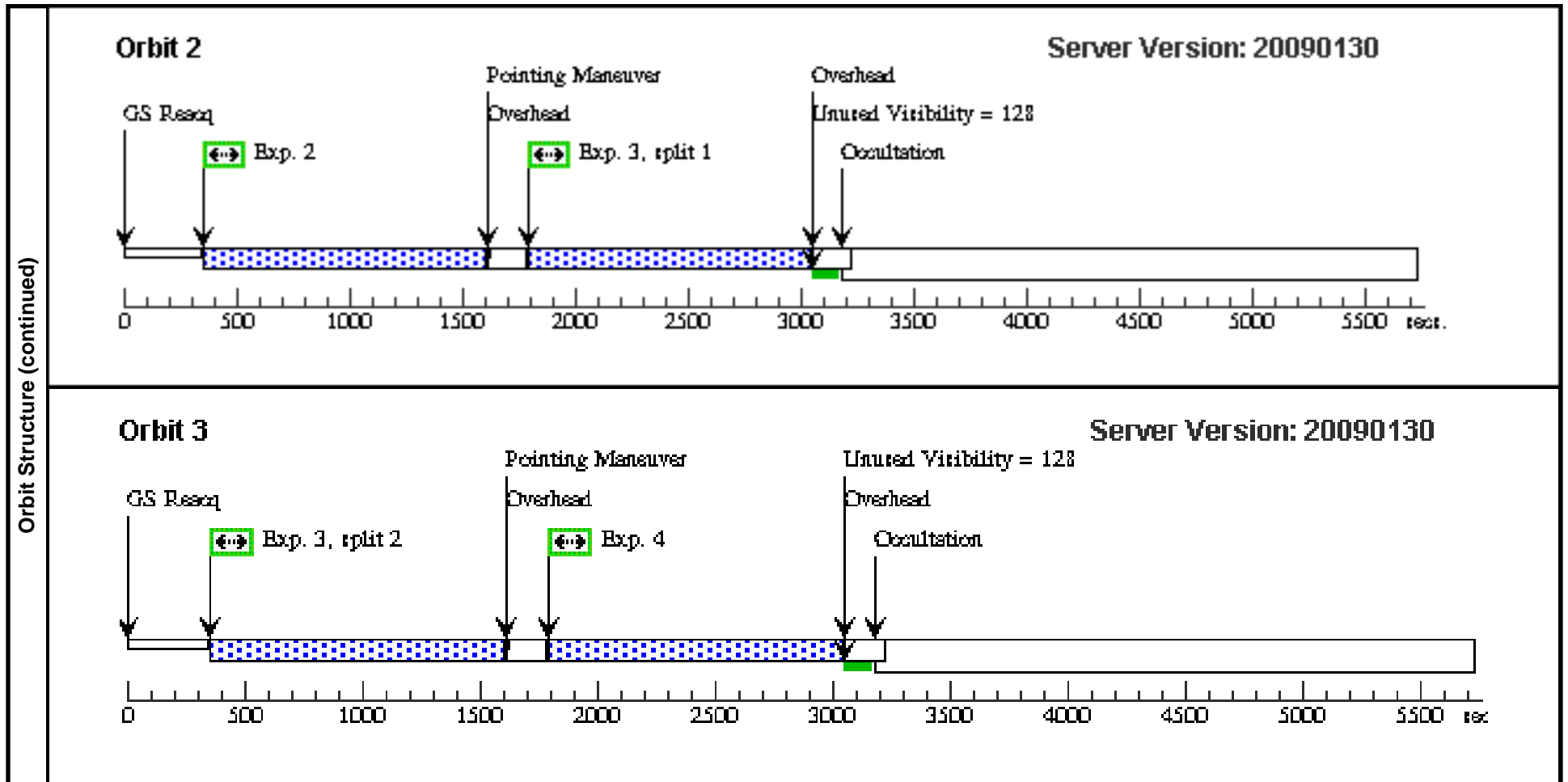
Sat Apr 11 01:14:33 GMT 2009

<b>Visit</b>	Proposal 11974, Visit 09, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFPC2				
	Special Requirements: SAME ORIENT AS 07				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	SDSSJ1137+4936	RA: 11 37 40.0560 (174.4169000d) Dec: +49 36 35.64 (49.60990d) Equinox: J2000	Redshift: 1.02	V=20.46+/-2.0 g= 20.50, r= 20.43*	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) SDSSJ1137+4936	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=.5	POS TARG 0,0		2300 Secs [=>1100.0 Secs (Split 1)] [=>1100.0 Secs (Split 2)]	[1]
	2		(3) SDSSJ1137+4936	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO	POS TARG 0.747,0.747		1150 Secs [=>1100.0 Secs ]	[2]
	3		(3) SDSSJ1137+4936	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=.5	POS TARG 0,0		2300 Secs [=>1100.0 Secs (Split 1)] [=>1100.0 Secs (Split 2)]	[2] [3]
	4		(3) SDSSJ1137+4936	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO	POS TARG 0.249,0.489		1150 Secs [=>1100.0 Secs ]	[3]

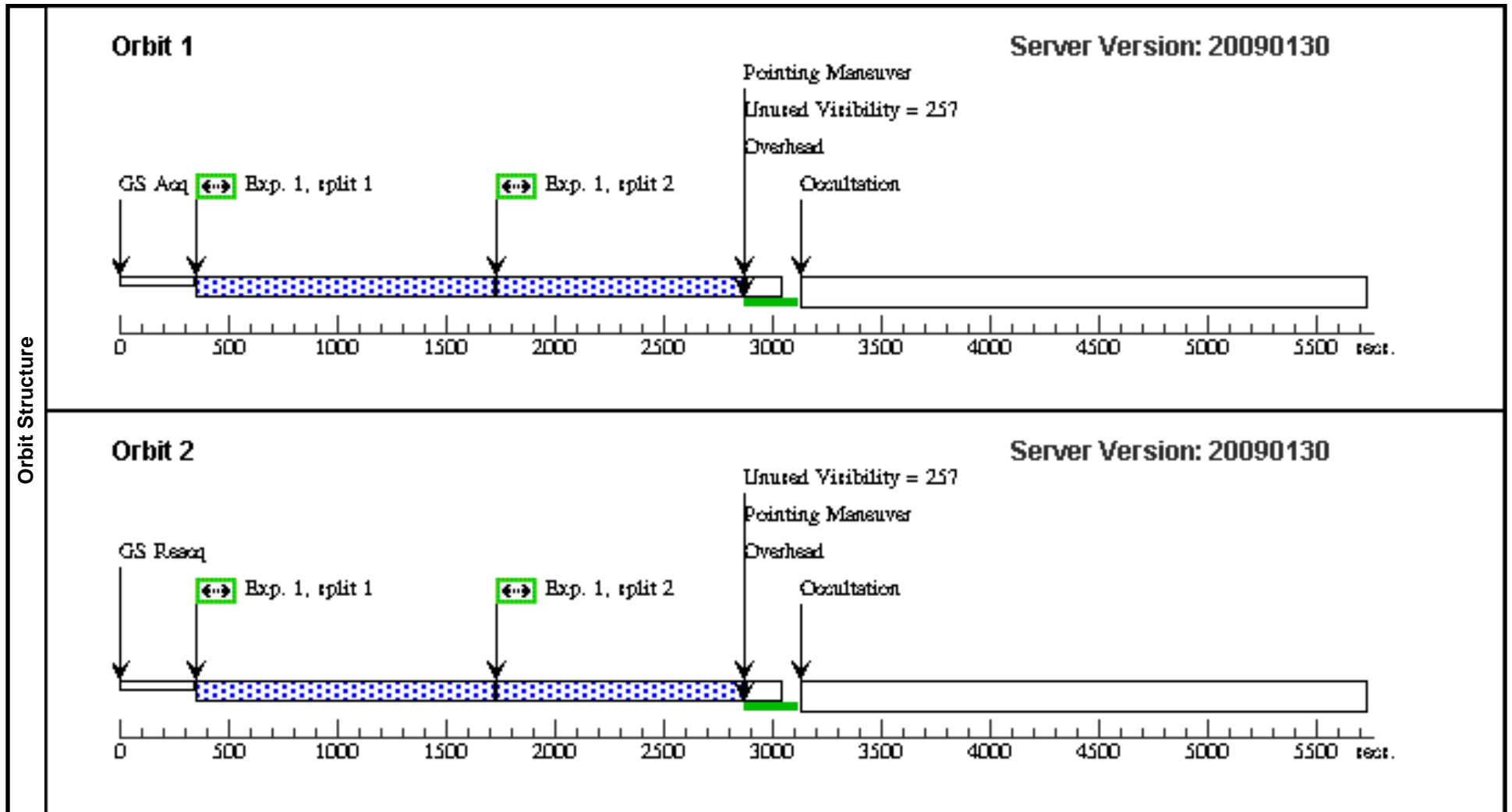


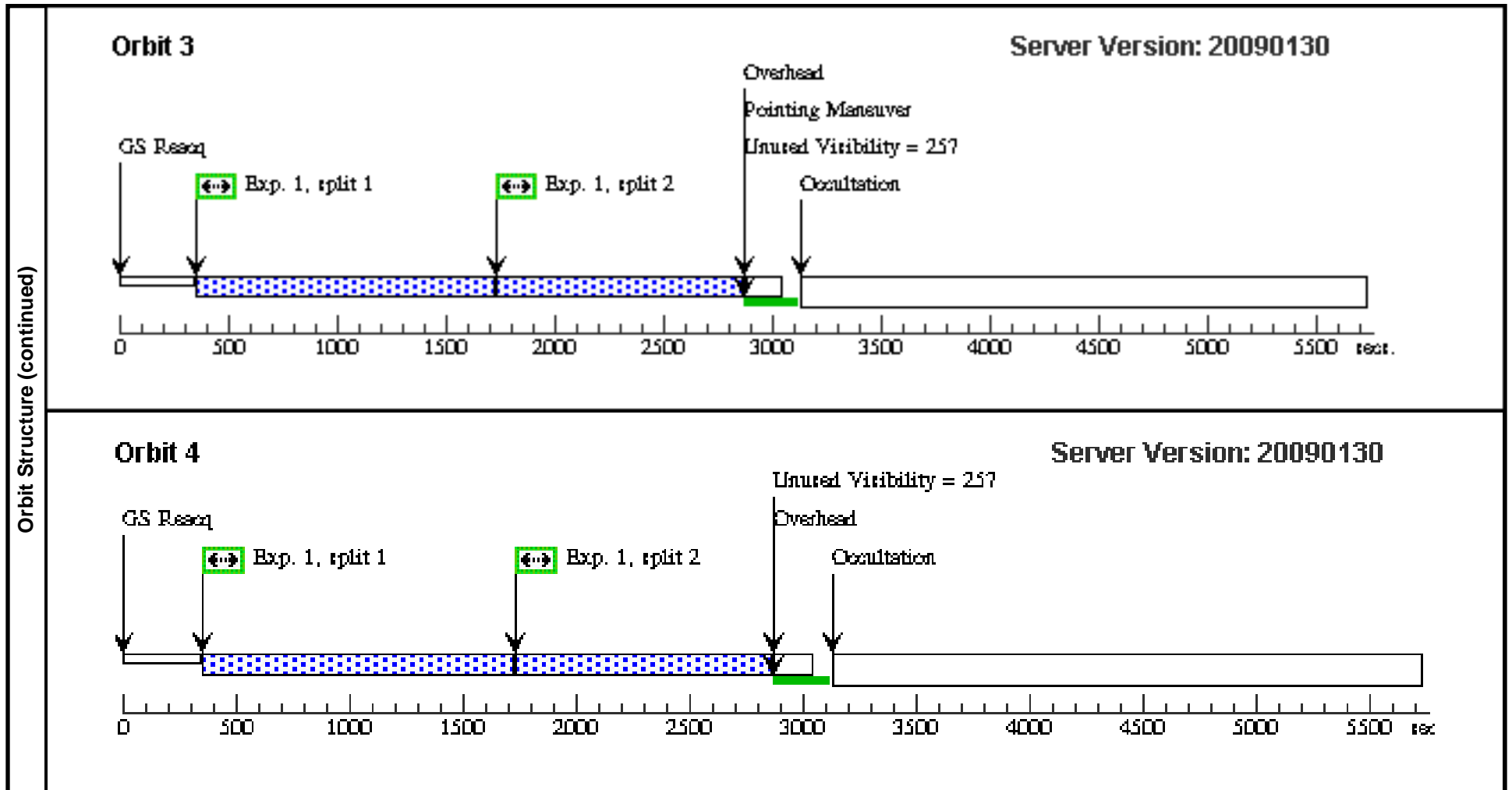


Proposal 11974 - Visit 10 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:33 GMT 2009

Visit	<b>Proposal 11974, Visit 10, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	SDSSJ2111-0114	RA: 21 11 19.3440 (317.8306000d) Dec: -01 14 23.51 (-1.23986d) Equinox: J2000	Redshift: 1.1	V=23.29+/-2.3 g= 23.00, r= 23.50*	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) SDSSJ2111-0114	WFPC2, IMAGE, WF3	F450W			Pattern 1, Exps 1-1 (1)	1108 Secs	
									[=>1100.0 Secs (Pattern 1, Split 1)]	[1]
									[=>1100.0 Secs (Pattern 1, Split 2)]	[2]
									[=>1100.0 Secs (Pattern 2, Split 1)]	[2]
									[=>1100.0 Secs (Pattern 2, Split 2)]	[3]
									[=>1100.0 Secs (Pattern 3, Split 1)]	[3]
								[=>1100.0 Secs (Pattern 3, Split 2)]	[4]	
								[=>1100.0 Secs (Pattern 4, Split 1)]	[4]	
								[=>1100.0 Secs (Pattern 4, Split 2)]	[4]	

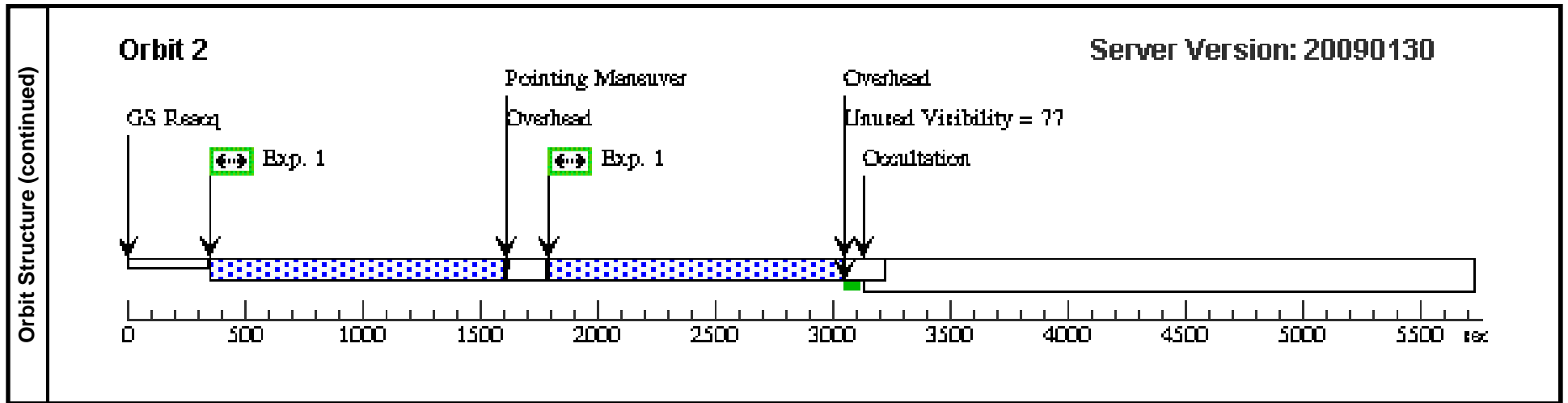




Proposal 11974 - Visit 11 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:34 GMT 2009

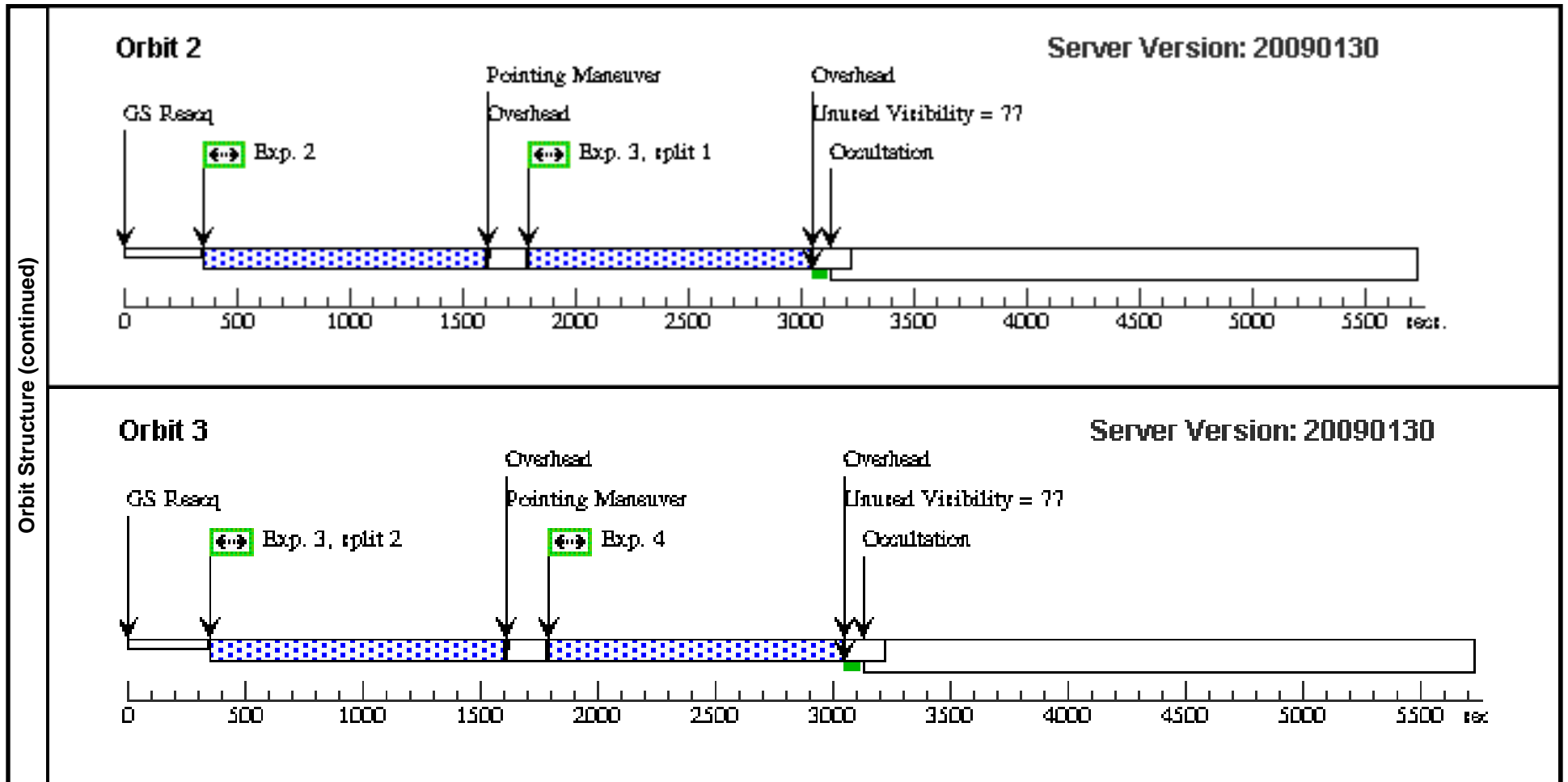
<b>Visit</b>	Proposal 11974, Visit 11, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 10									
	<b>Patterns</b>	# <b>Primary Pattern</b> (1) Pattern Type=WFPC2-BOX      Coordinate Frame=POS-TARG Purpose=DITHER                      Pattern Orientation=26.56505 Number Of Points=4                  Angle Between Sides=143.130102 Point Spacing=0.559017              Center Pattern=false Line Spacing=0.559017	<b>Secondary Pattern</b>	<b>Exposures</b>						
<b>Fixed Targets</b>	#	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(4)	SDSSJ2111-0114	RA: 21 11 19.3440 (317.8306000d) Dec: -01 14 23.51 (-1.23986d) Equinox: J2000	Redshift: 1.1	V=23.29+/-2.3 g= 23.00, r= 23.50*	Reference Frame: ICRS				
<b>Exposures</b>	#	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	(4) SDSSJ2111-0114	WFPC2, IMAGE, WF3	F606W				Pattern 1, Exps 1-1 (1)	600 Secs [==>1100.0 Secs (Pattern 1)] [==>1100.0 Secs (Pattern 2)] [==>1100.0 Secs (Pattern 3)] [==>1100.0 Secs (Pattern 4)]	[1] [2]
<b>Orbit Structure</b>	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20090130</b></span></p> <p>Timeline labels: GS Acq, Exp. 1, Pointing Maneuver, Overhead, Exp. 1, Pointing Maneuver, Overhead, Occultation, Unused Visibility = ??</p> <p>X-axis: 0, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500 sec.</p>									



Proposal 11974 - Visit 12 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:34 GMT 2009

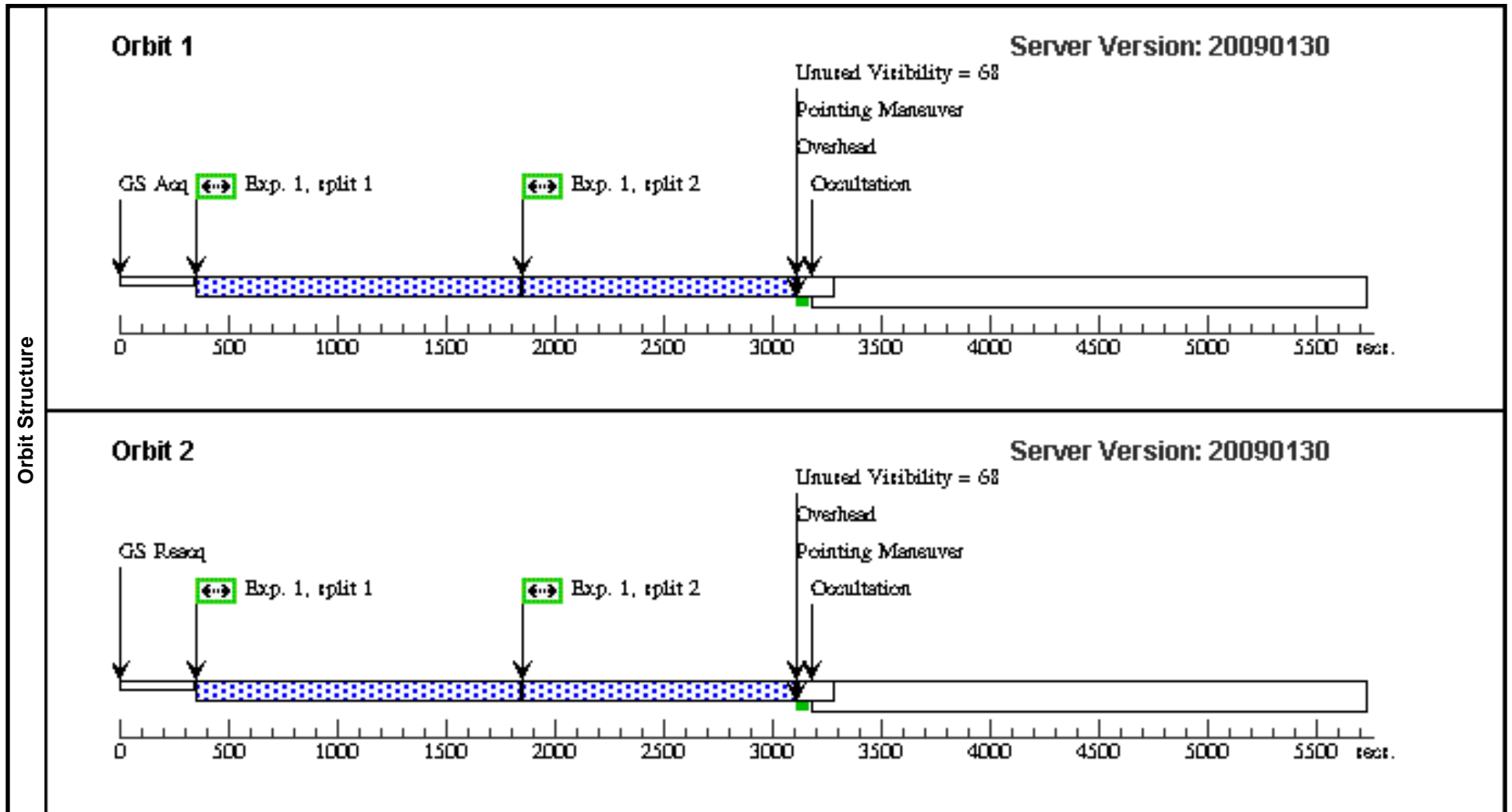
Visit	Proposal 11974, Visit 12, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 10									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(4)	SDSSJ2111-0114	RA: 21 11 19.3440 (317.8306000d) Dec: -01 14 23.51 (-1.23986d) Equinox: J2000	Redshift: 1.1	V=23.29+/-2.3 g= 23.00, r= 23.50*	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(4)	SDSSJ2111-0114	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=.5	POS TARG 0,0		2300 Secs [=>1100.0 Secs (Split 1)] [=>1100.0 Secs (Split 2)]	[1]
	2	(4)	SDSSJ2111-0114	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO	POS TARG 0.747,0.747		1150 Secs [=>1100.0 Secs ]	[2]
	3	(4)	SDSSJ2111-0114	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=.5	POS TARG 0,0		2300 Secs [=>1100.0 Secs (Split 1)] [=>1100.0 Secs (Split 2)]	[2] [3]
	4	(4)	SDSSJ2111-0114	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO	POS TARG 0.249,0.489		1150 Secs [=>1100.0 Secs ]	[3]
Orbit Structure	<p><b>Orbit 1</b> <span style="float: right;">Server Version: 20090130</span></p> <p>The diagram illustrates the timing of observations within Orbit 1. It features a horizontal axis representing time in seconds, ranging from 0 to 5500. Key events are marked with arrows and labels: 'GS Acq' at approximately 20 seconds, 'Expt. 1, split 1' at approximately 40 seconds, 'Expt. 1, split 2' at approximately 1700 seconds, 'Pointing Maneuver' at approximately 2900 seconds, 'Unused Visibility = 257' at approximately 2900 seconds, 'Overhead' at approximately 2900 seconds, and 'Occultation' at approximately 3000 seconds. The exposure periods are highlighted with a blue dotted pattern, while the remaining time in the orbit is shown as a solid white bar.</p>									

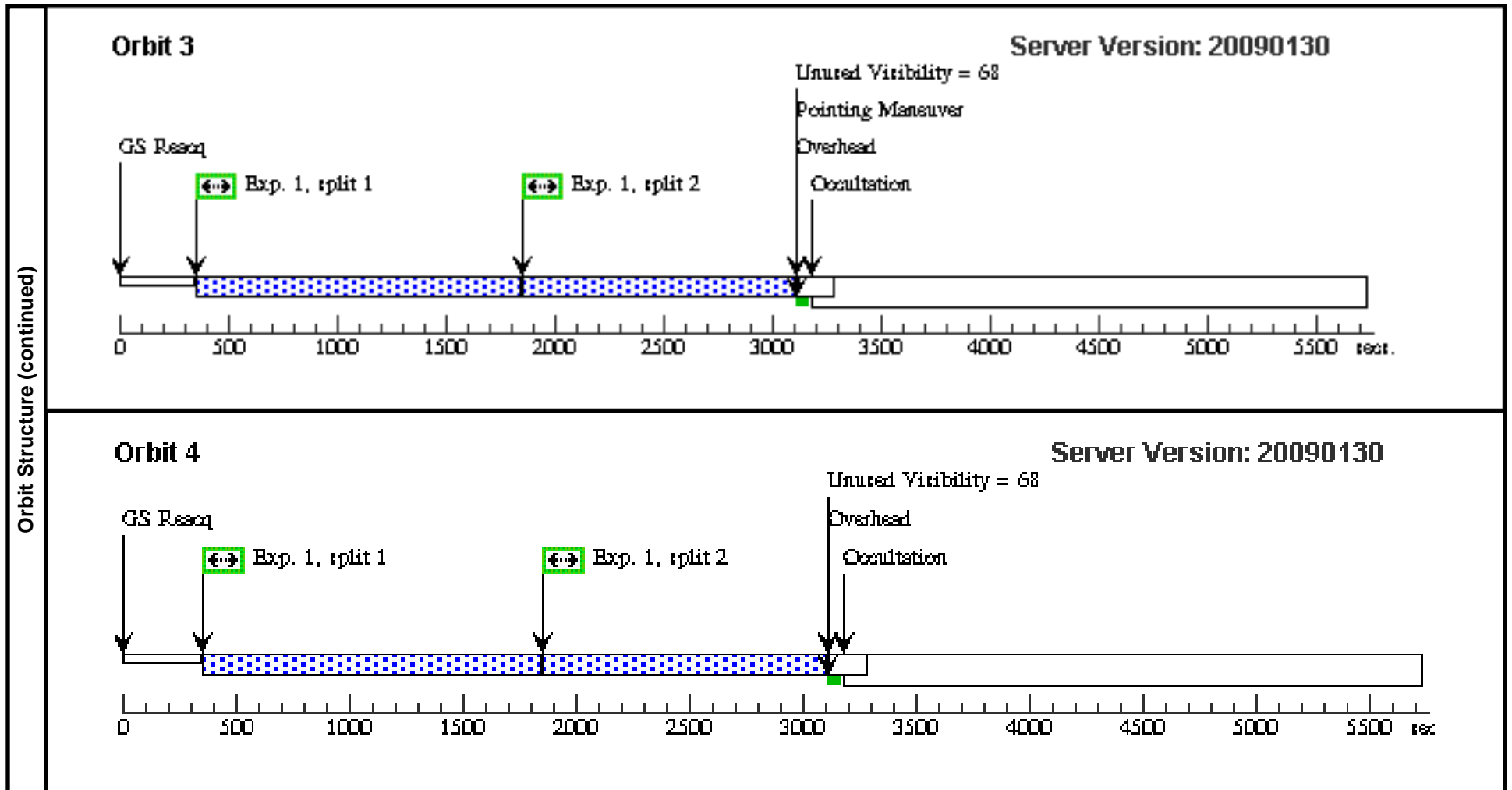


Proposal 11974 - Visit 13 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:34 GMT 2009

Visit	<b>Proposal 11974, Visit 13, failed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	SDSSJ1511+4713	RA: 15 11 18.7383 (227.8280762d) Dec: +47 13 40.32 (47.22787d) Equinox: J2000	Redshift: 0.98	V=22.66+/-2.2 g= 22.20, r= 23.00*	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(5) SDSSJ1511+4713	WFPC2, IMAGE, WF3	F450W			Pattern 1, Exps 1-1 (1)	1108 Secs	
			3						[=>1200.0 Secs (Pattern 1, Split 1)]	[1]
									[=>1200.0 Secs (Pattern 1, Split 2)]	[2]
									[=>1200.0 Secs (Pattern 2, Split 1)]	[3]
									[=>1200.0 Secs (Pattern 2, Split 2)]	[4]
								[=>1200.0 Secs (Pattern 3, Split 1)]	[1]	
								[=>1200.0 Secs (Pattern 3, Split 2)]	[2]	
								[=>1200.0 Secs (Pattern 4, Split 1)]	[3]	
								[=>1200.0 Secs (Pattern 4, Split 2)]	[4]	

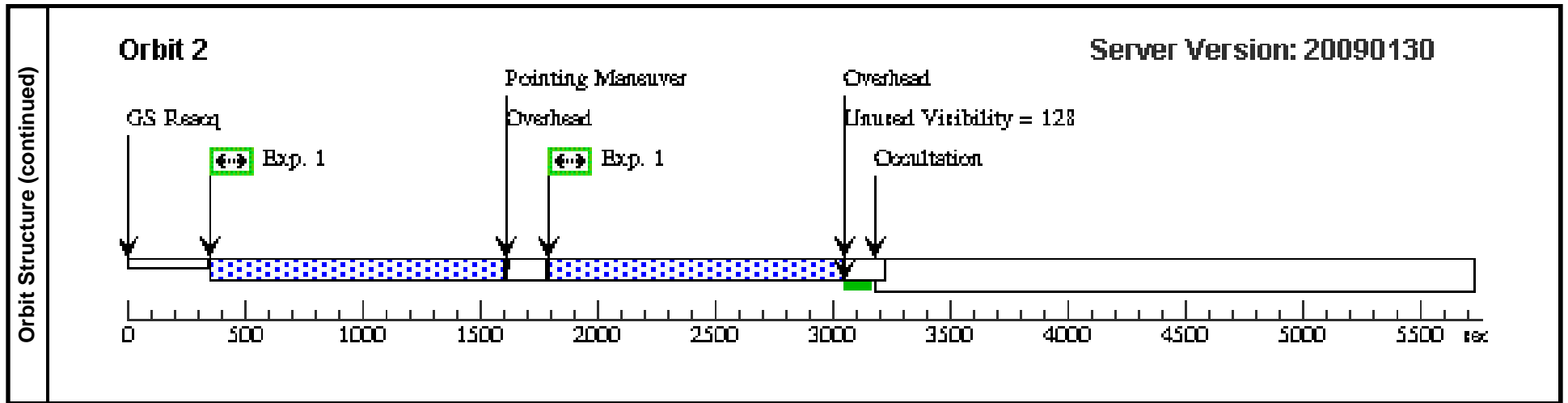




Proposal 11974 - Visit 14 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:35 GMT 2009

<b>Visit</b>	Proposal 11974, Visit 14, failed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 13									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>					
	(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1)					
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(5)	SDSSJ1511+4713	RA: 15 11 18.7383 (227.8280762d) Dec: +47 13 40.32 (47.22787d) Equinox: J2000	Redshift: 0.98	V=22.66+/-2.2 g= 22.20, r= 23.00*	Reference Frame: ICRS				
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	(5) SDSSJ1511+4713	WFPC2, IMAGE, WF3	F606W				Pattern 1, Exps 1-1 (1)	600 Secs [==>1100.0 Secs (Pattern 1)] [==>1100.0 Secs (Pattern 2)] [==>1100.0 Secs (Pattern 3)] [==>1100.0 Secs (Pattern 4)]	[1] [2]
<b>Orbit Structure</b>	<b>Orbit 1</b>									
	<p>Server Version: 20090130</p> <p>Timeline labels: GS Acq, Exp. 1, Overhead, Pointing Maneuver, Unused Visibility = 128, Occultation.</p> <p>X-axis: 0, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500 sec.</p>									



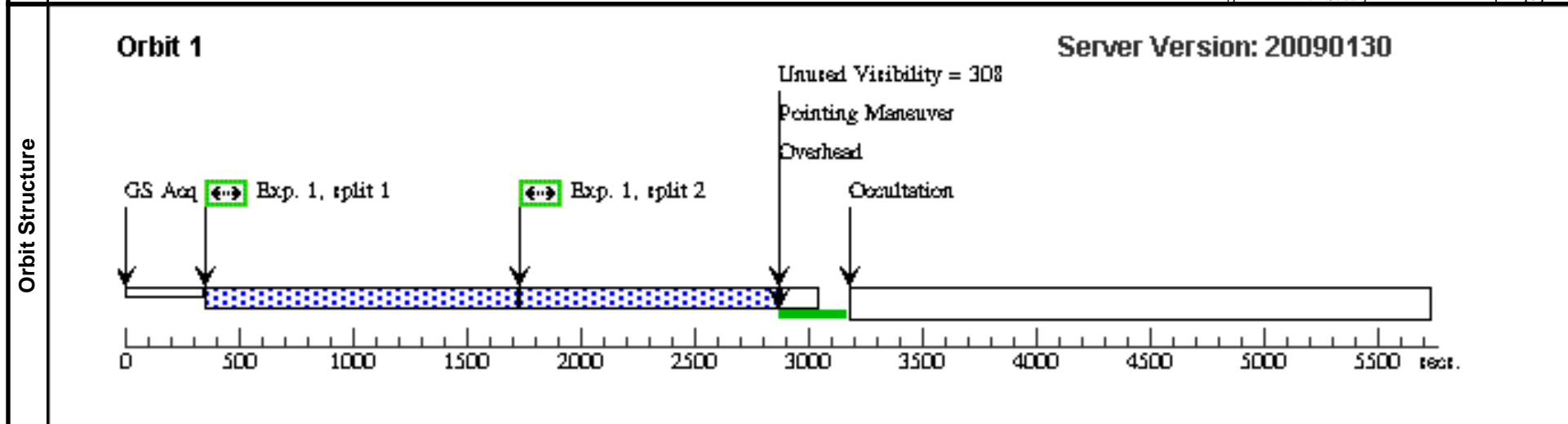
Proposal 11974 - Visit 15 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

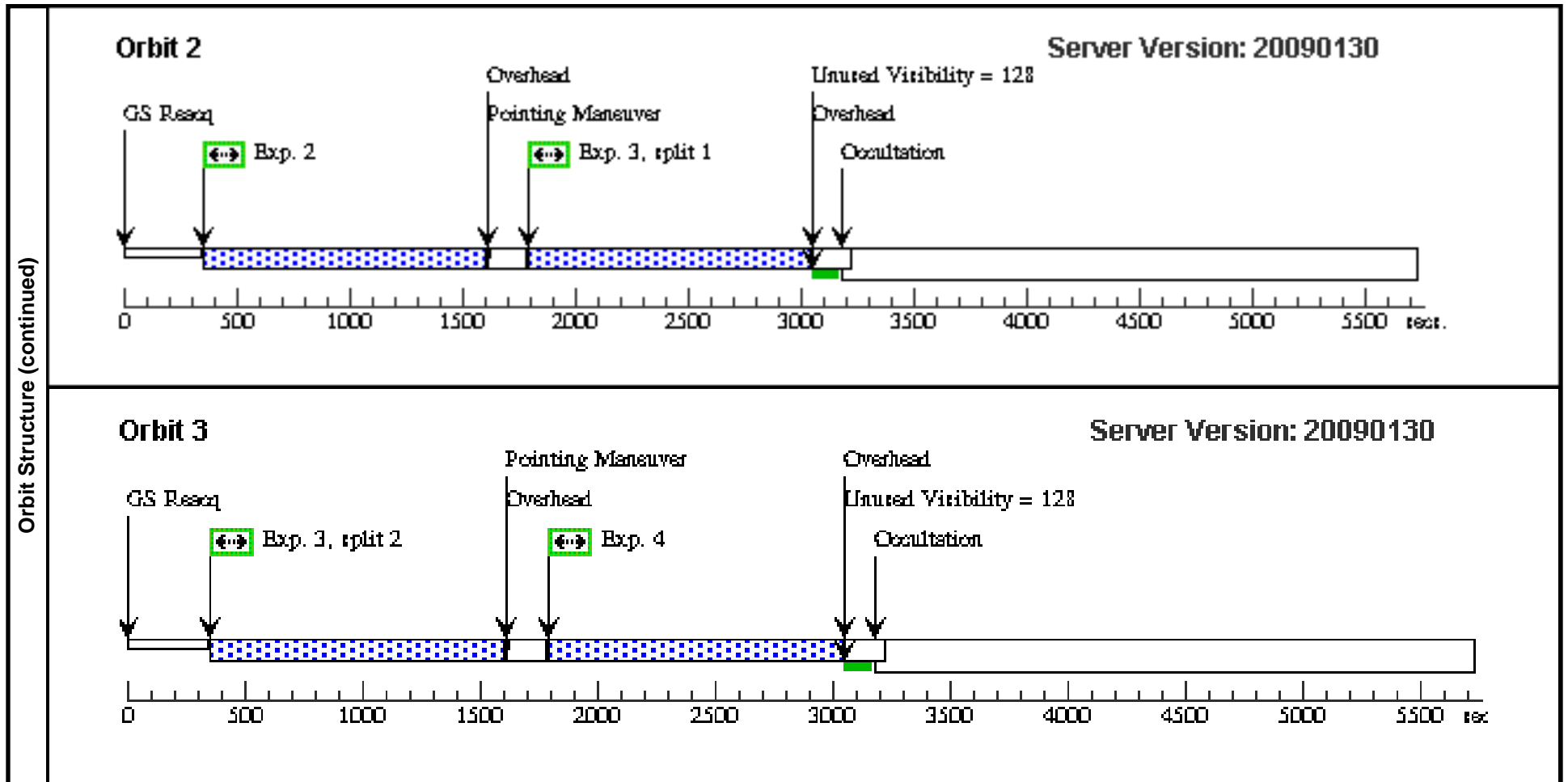
Sat Apr 11 01:14:35 GMT 2009

<b>Visit</b>	Proposal 11974, Visit 15, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFPC2				
	Special Requirements: SAME ORIENT AS 13				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	SDSSJ1511+4713	RA: 15 11 18.7383 (227.8280762d) Dec: +47 13 40.32 (47.22787d) Equinox: J2000	Redshift: 0.98	V=22.66+/-2.2 g= 22.20, r= 23.00*	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(5) SDSSJ1511+4713	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=.5	POS TARG 0,0		2300 Secs [=>1100.0 Secs (Split 1)] [=>1100.0 Secs (Split 2)]	[1]
	2		(5) SDSSJ1511+4713	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO	POS TARG 0.747,0.747		1150 Secs [=>1100.0 Secs ]	[2]
	3		(5) SDSSJ1511+4713	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=.5	POS TARG 0,0		2300 Secs [=>1100.0 Secs (Split 1)] [=>1100.0 Secs (Split 2)]	[2] [3]
	4		(5) SDSSJ1511+4713	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO	POS TARG 0.249,0.489		1150 Secs [=>1100.0 Secs ]	[3]

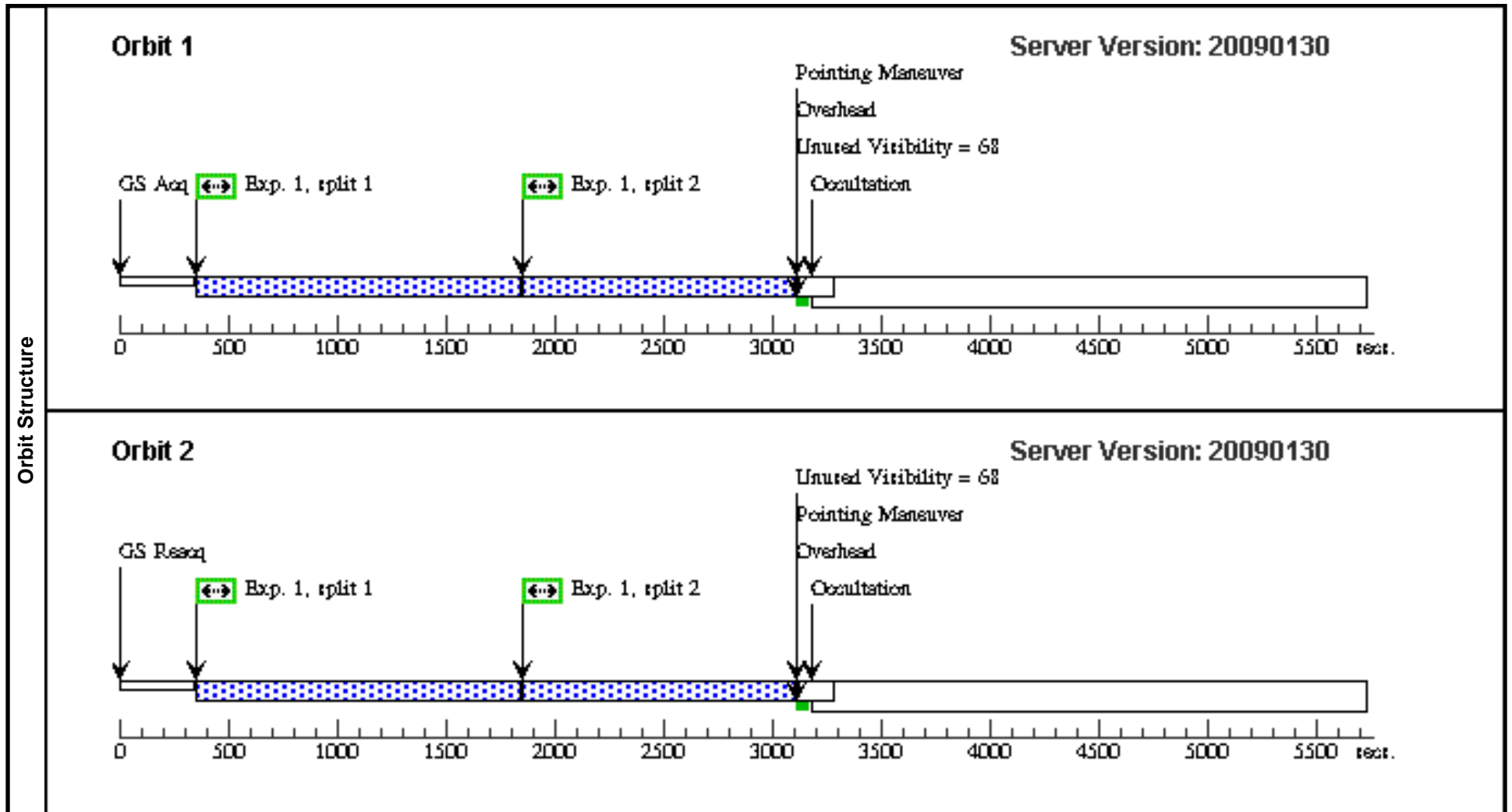


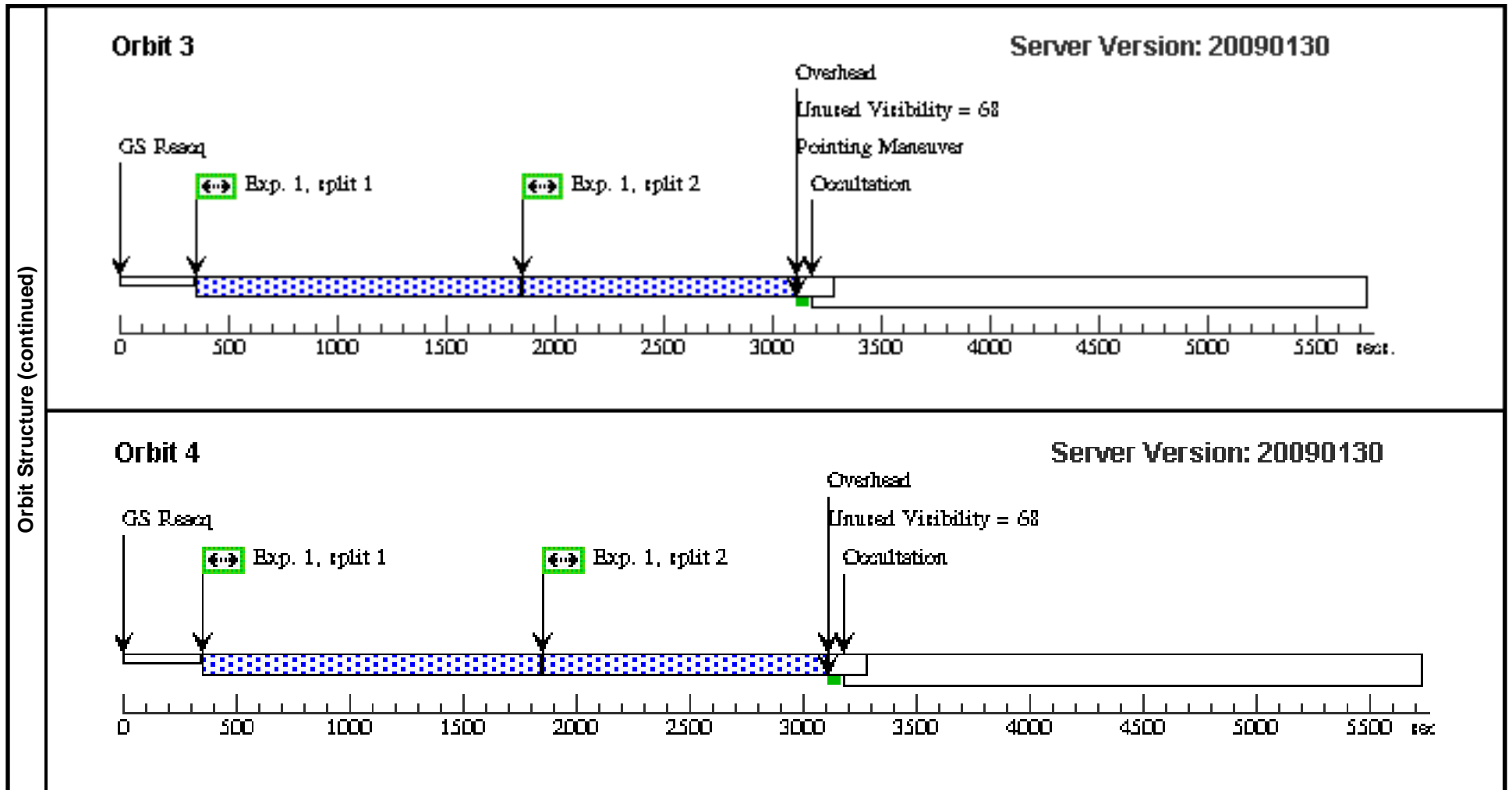


Proposal 11974 - Visit 16 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:36 GMT 2009

Visit	<b>Proposal 11974, Visit 16, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	SDSSJ1038+4849	RA: 10 38 43.0974 (159.6795725d) Dec: +48 49 16.19 (48.82116d) Equinox: J2000	Redshift: 0.97	V=21.66+/-2.3 g= 21.90, r= 21.50*	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(6) SDSSJ1038+4849	WFPC2, IMAGE, WF3	F450W			Pattern 1, Exps 1-1 (1)	1108 Secs	
									[=>1200.0 Secs (Pattern 1, Split 1)]	[1]
									[=>1200.0 Secs (Pattern 1, Split 2)]	[2]
									[=>1200.0 Secs (Pattern 2, Split 1)]	[2]
									[=>1200.0 Secs (Pattern 2, Split 2)]	[3]
									[=>1200.0 Secs (Pattern 3, Split 1)]	[3]
								[=>1200.0 Secs (Pattern 3, Split 2)]	[4]	
								[=>1200.0 Secs (Pattern 4, Split 1)]	[4]	
								[=>1200.0 Secs (Pattern 4, Split 2)]	[4]	

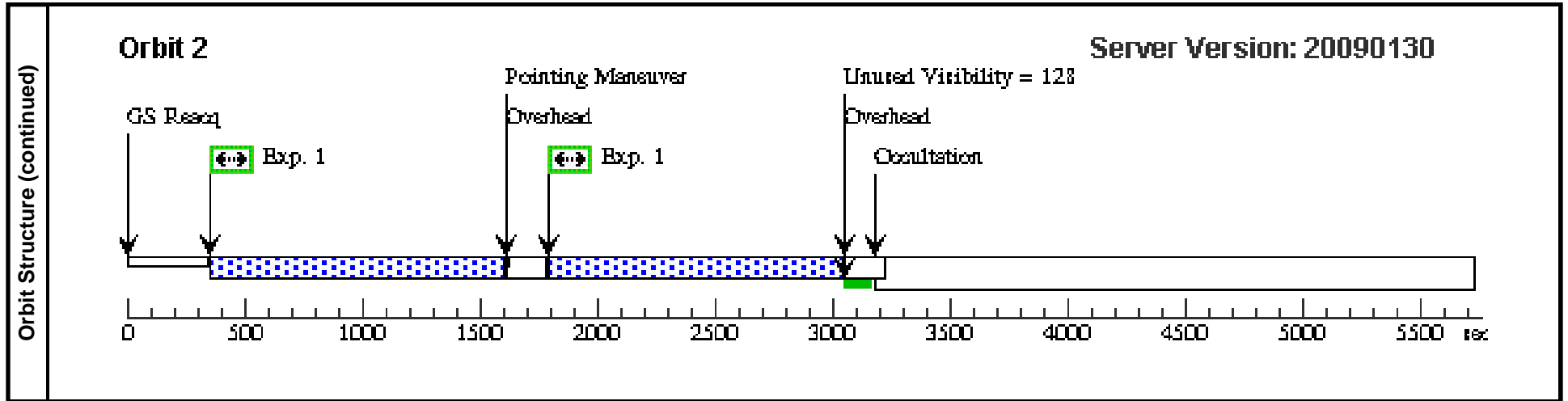




Proposal 11974 - Visit 17 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:36 GMT 2009

<b>Visit</b>	Proposal 11974, Visit 17, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 16									
	<b>Patterns</b>	# <b>Primary Pattern</b> (1) Pattern Type=WFPC2-BOX      Coordinate Frame=POS-TARG Purpose=DITHER      Pattern Orientation=26.56505 Number Of Points=4      Angle Between Sides=143.130102 Point Spacing=0.559017      Center Pattern=false Line Spacing=0.559017	<b>Secondary Pattern</b>	<b>Exposures</b>						
<b>Fixed Targets</b>	#	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(6)	SDSSJ1038+4849	RA: 10 38 43.0974 (159.6795725d) Dec: +48 49 16.19 (48.82116d) Equinox: J2000	Redshift: 0.97	V=21.66+/-2.3 g= 21.90, r= 21.50*	Reference Frame: ICRS				
<b>Exposures</b>	#	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	(6) SDSSJ1038+4849	9	WFPC2, IMAGE, WF3	F606W			Pattern 1, Exps 1-1 (1)	600 Secs [=>1100.0 Secs (Pattern 1)] [=>1100.0 Secs (Pattern 2)] [=>1100.0 Secs (Pattern 3)] [=>1100.0 Secs (Pattern 4)]	[1] [2]
<b>Orbit Structure</b>	<p><b>Orbit 1</b> <span style="float: right;">Server Version: 20090130</span></p> <p>Unused Visibility = 128</p> <p>GS Acq    Exp. 1    Pointing Maneuver    Overhead    Exp. 1    Pointing Maneuver    Occultation    Overhead</p> <p>0    500    1000    1500    2000    2500    3000    3500    4000    4500    5000    5500    sec.</p>									



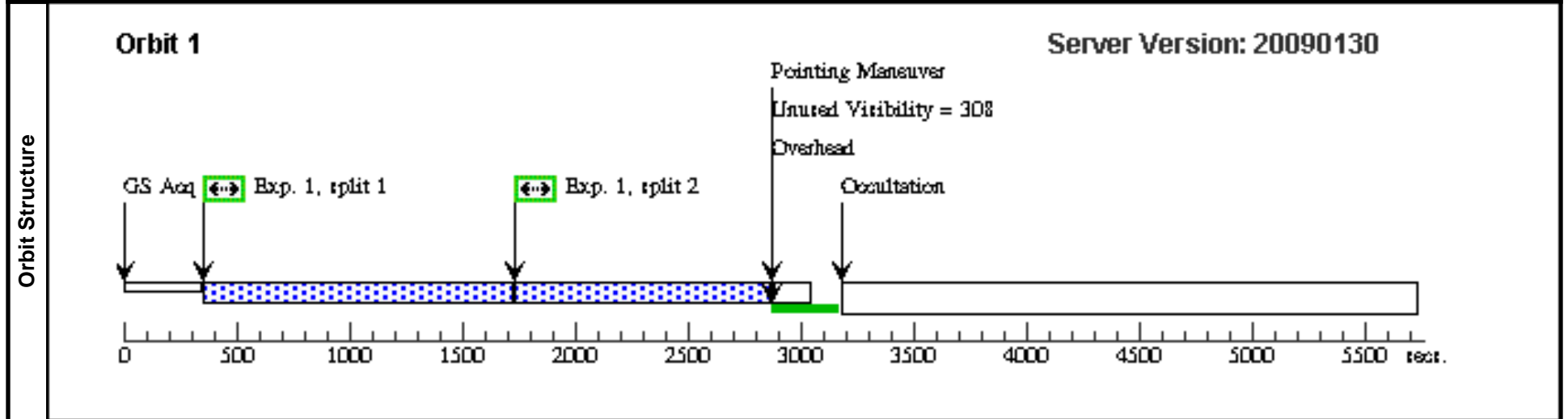
Proposal 11974 - Visit 18 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

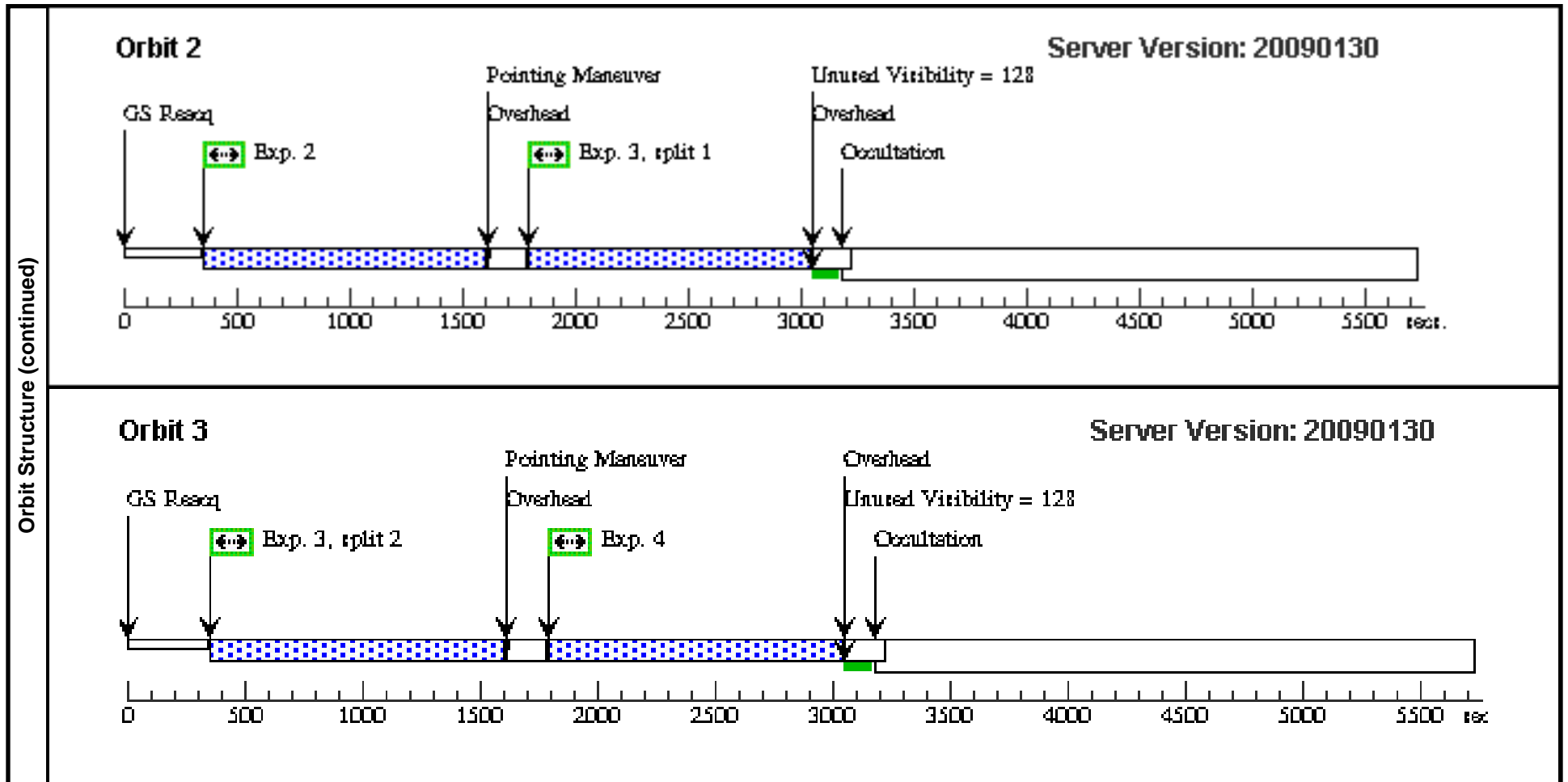
Sat Apr 11 01:14:37 GMT 2009

<b>Visit</b>	Proposal 11974, Visit 18, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFPC2				
	Special Requirements: SAME ORIENT AS 16				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(6)	SDSSJ1038+4849	RA: 10 38 43.0974 (159.6795725d) Dec: +48 49 16.19 (48.82116d) Equinox: J2000	Redshift: 0.97	V=21.66+/-2.3 g= 21.90, r= 21.50*	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(6) SDSSJ1038+4849	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=.5	POS TARG 0,0		2300 Secs [=>1100.0 Secs (Split 1)] [=>1100.0 Secs (Split 2)]	[1]
	2		(6) SDSSJ1038+4849	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO	POS TARG 0.747,0.747		1150 Secs [=>1100.0 Secs ]	[2]
	3		(6) SDSSJ1038+4849	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=.5	POS TARG 0,0		2300 Secs [=>1100.0 Secs (Split 1)] [=>1100.0 Secs (Split 2)]	[2] [3]
	4		(6) SDSSJ1038+4849	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO	POS TARG 0.249,0.489		1150 Secs [=>1100.0 Secs ]	[3]

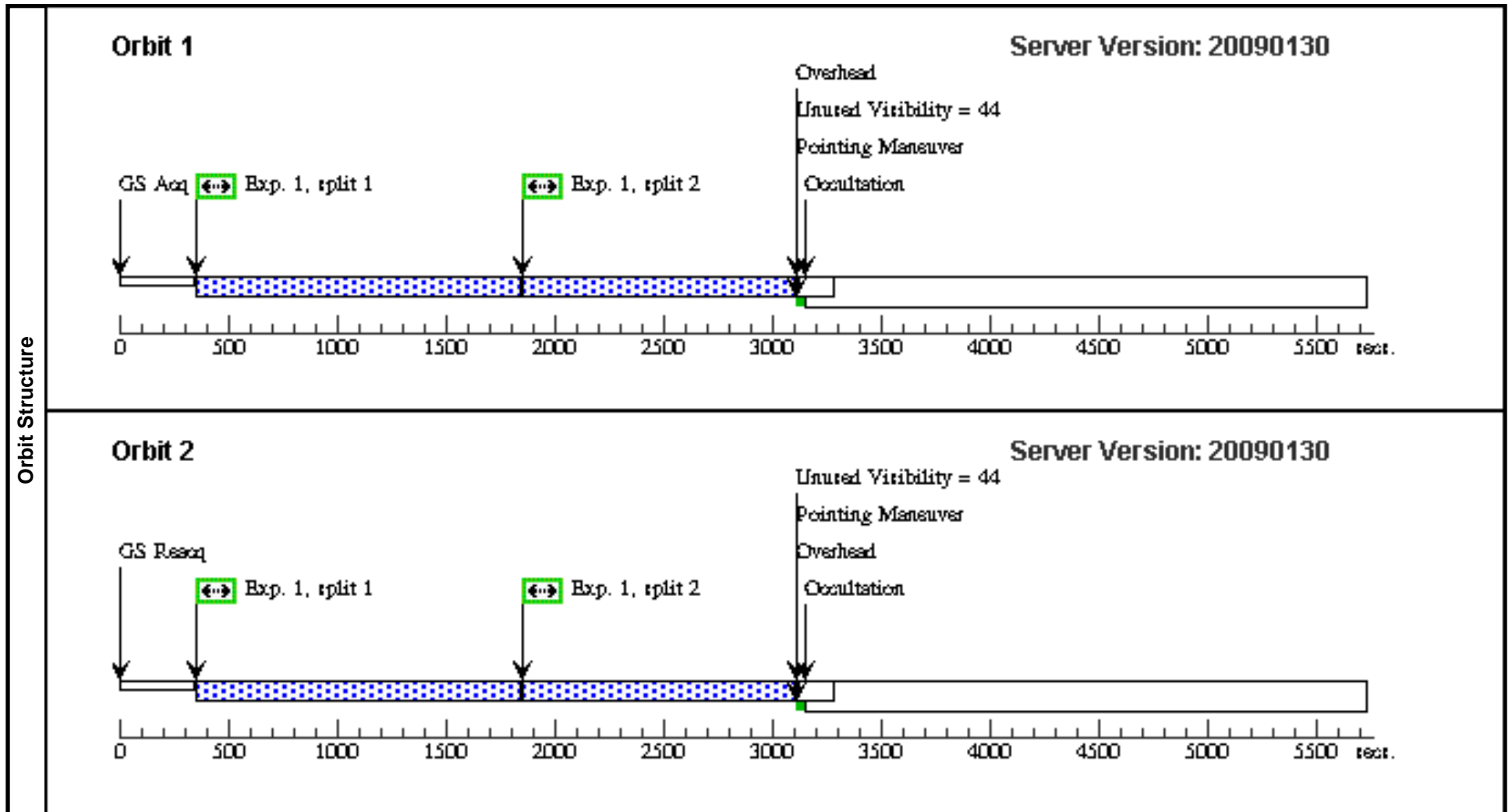


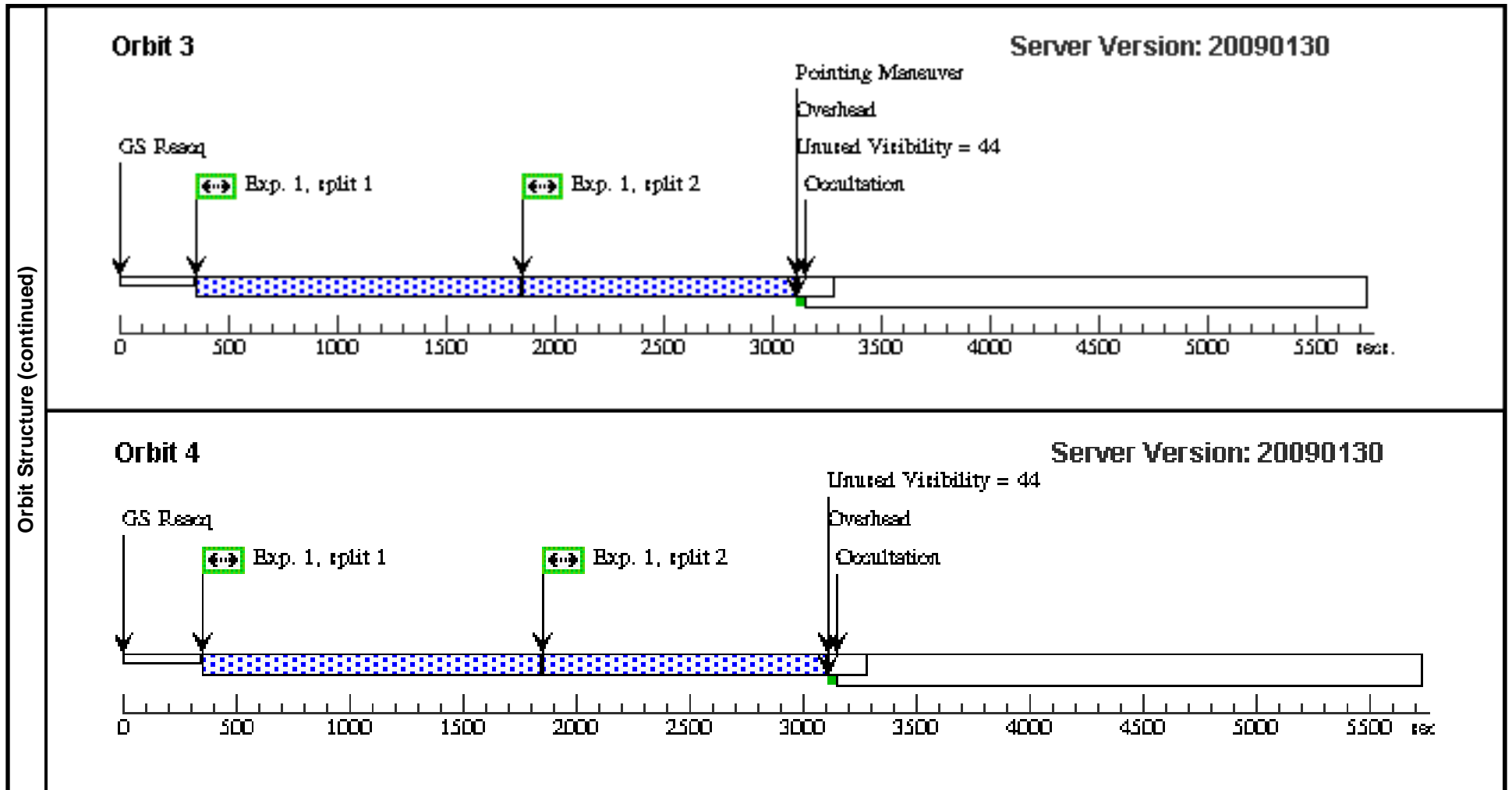


Proposal 11974 - Visit 19 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:37 GMT 2009

Visit	<b>Proposal 11974, Visit 19, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	SDSSJ1629+3528	RA: 16 29 54.5600 (247.4773333d) Dec: +35 28 39.50 (35.47764d) Equinox: J2000	Redshift: 0.90	V=19.41+/-2.2 g= 19.85, r= 19.09*	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(7) SDSSJ1629+3528	WFPC2, IMAGE, WF3	F450W			Pattern 1, Exps 1-1 (1)	1108 Secs	
			8						[=>1200.0 Secs (Pattern 1, Split 1)]	[1]
									[=>1200.0 Secs (Pattern 1, Split 2)]	[2]
									[=>1200.0 Secs (Pattern 2, Split 1)]	[3]
									[=>1200.0 Secs (Pattern 2, Split 2)]	[4]
									[=>1200.0 Secs (Pattern 3, Split 1)]	[5]
								[=>1200.0 Secs (Pattern 3, Split 2)]	[6]	
								[=>1200.0 Secs (Pattern 4, Split 1)]	[7]	
								[=>1200.0 Secs (Pattern 4, Split 2)]	[8]	

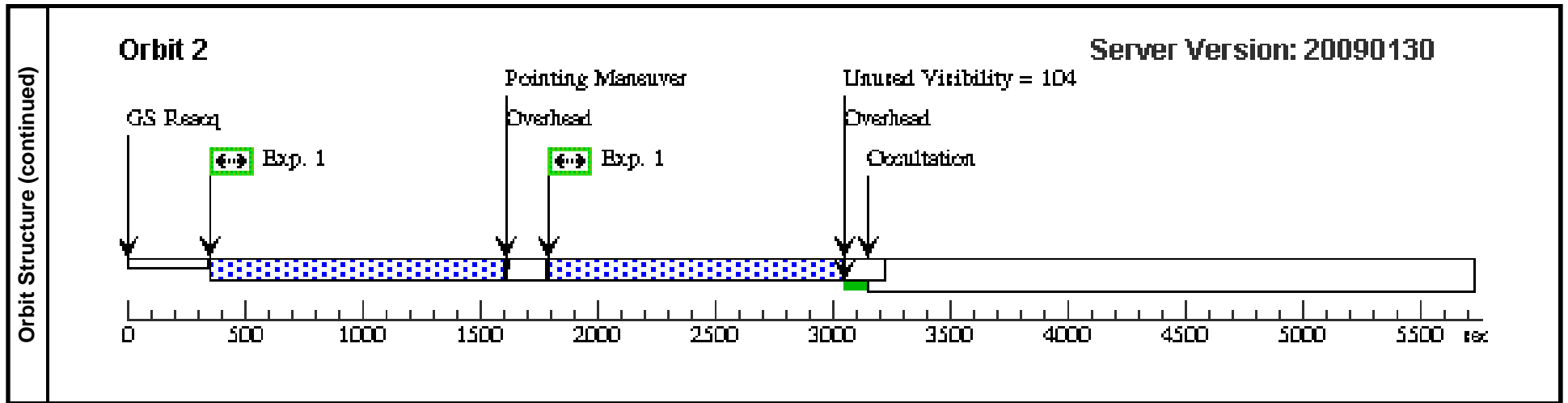




Proposal 11974 - Visit 20 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:38 GMT 2009

<b>Visit</b>	Proposal 11974, Visit 20, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 19									
	<b>Patterns</b>	# <b>Primary Pattern</b> (1) Pattern Type=WFPC2-BOX      Coordinate Frame=POS-TARG Purpose=DITHER      Pattern Orientation=26.56505 Number Of Points=4      Angle Between Sides=143.130102 Point Spacing=0.559017      Center Pattern=false Line Spacing=0.559017	<b>Secondary Pattern</b>	<b>Exposures</b>						
<b>Fixed Targets</b>	#	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(7)	SDSSJ1629+3528	RA: 16 29 54.5600 (247.4773333d) Dec: +35 28 39.50 (35.47764d) Equinox: J2000	Redshift: 0.90	V=19.41+/-2.2 g= 19.85, r= 19.09*	Reference Frame: ICRS				
<b>Exposures</b>	#	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	(7) SDSSJ1629+3528 8	WFPC2, IMAGE, WF3	F606W				Pattern 1, Exps 1-1 (1)	600 Secs [=>1100.0 Secs (Pattern 1)] [=>1100.0 Secs (Pattern 2)] [=>1100.0 Secs (Pattern 3)] [=>1100.0 Secs (Pattern 4)]	[1] [2]
<b>Orbit Structure</b>	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20090130</b></span></p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. Key events are marked with arrows: GS Acq at ~200s, Exp. 1 (green box) at ~400s, Pointing Maneuver at ~1600s, Overhead at ~1700s, Exp. 1 (green box) at ~1800s, Occultation at ~3000s, and another Overhead at ~3100s. A blue dotted bar spans from approximately 400s to 3000s. A vertical line at ~3100s is labeled 'Unused Visibility = 104'. The x-axis is labeled 'sec.' at the end.</p>									



Proposal 11974 - Visit 21 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

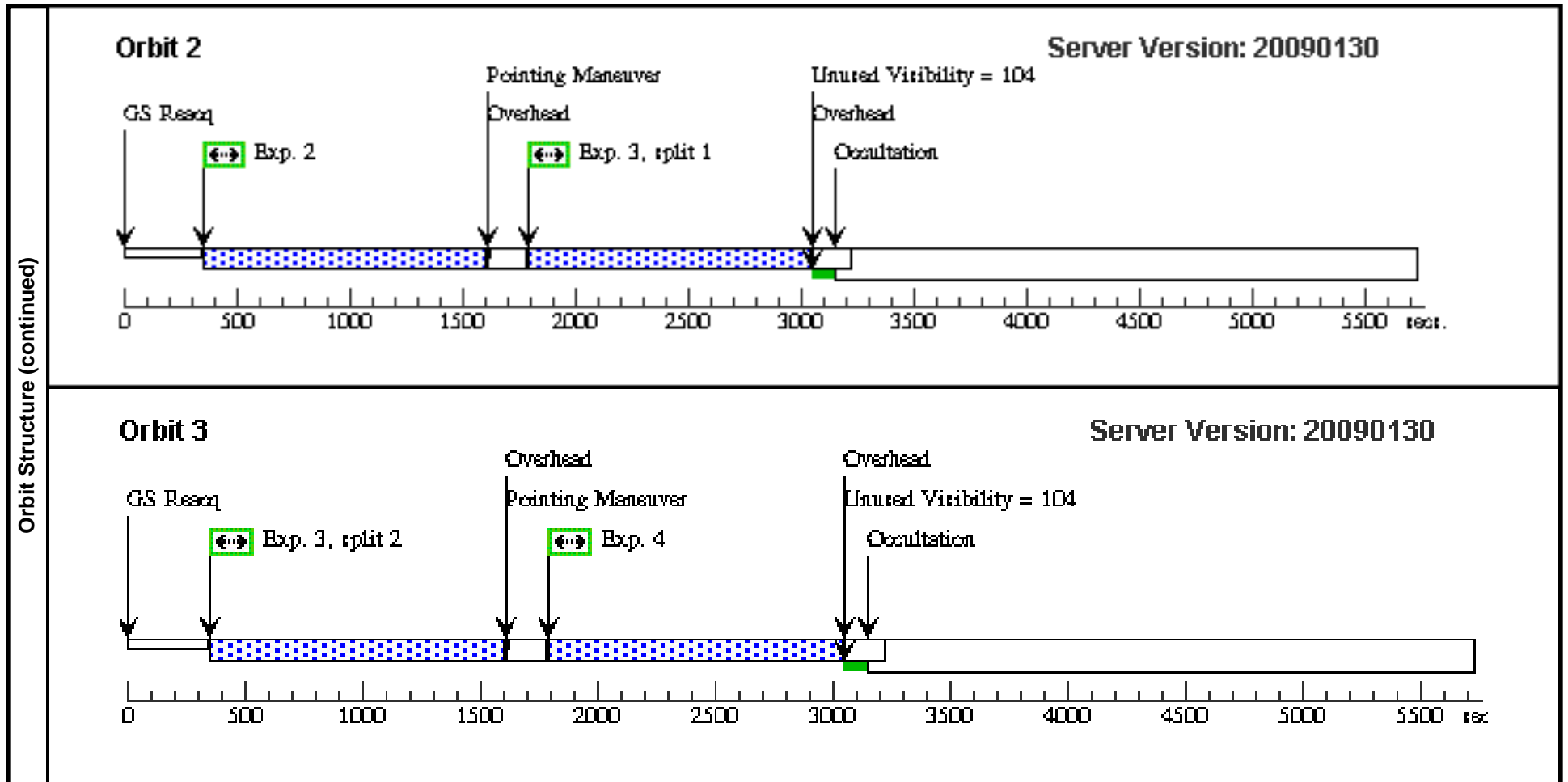
Sat Apr 11 01:14:38 GMT 2009

Visit	Proposal 11974, Visit 21, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 19									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(7)	SDSSJ1629+3528	RA: 16 29 54.5600 (247.4773333d) Dec: +35 28 39.50 (35.47764d) Equinox: J2000	Redshift: 0.90	V=19.41+/-2.2 g= 19.85, r= 19.09*	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(7) SDSSJ1629+3528	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=.5	POS TARG 0,0		2300 Secs	
			8						[=>1100.0 Secs (Split 1)]	[1]
									[=>1100.0 Secs (Split 2)]	
	2		(7) SDSSJ1629+3528	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO	POS TARG 0.747,0.747		1150 Secs	
			8					[=>1100.0 Secs ]	[2]	
3		(7) SDSSJ1629+3528	WFPC2, IMAGE, WF3	F814W	F814W	CR-SPLIT=.5	POS TARG 0,0	2300 Secs		
			8					[=>1100.0 Secs (Split 1)]	[2]	
								[=>1100.0 Secs (Split 2)]	[3]	
4		(7) SDSSJ1629+3528	WFPC2, IMAGE, WF3	F814W	F814W	CR-SPLIT=NO	POS TARG 0.249,0.489	1150 Secs		
			8					[=>1100.0 Secs ]	[3]	

### Orbit 1

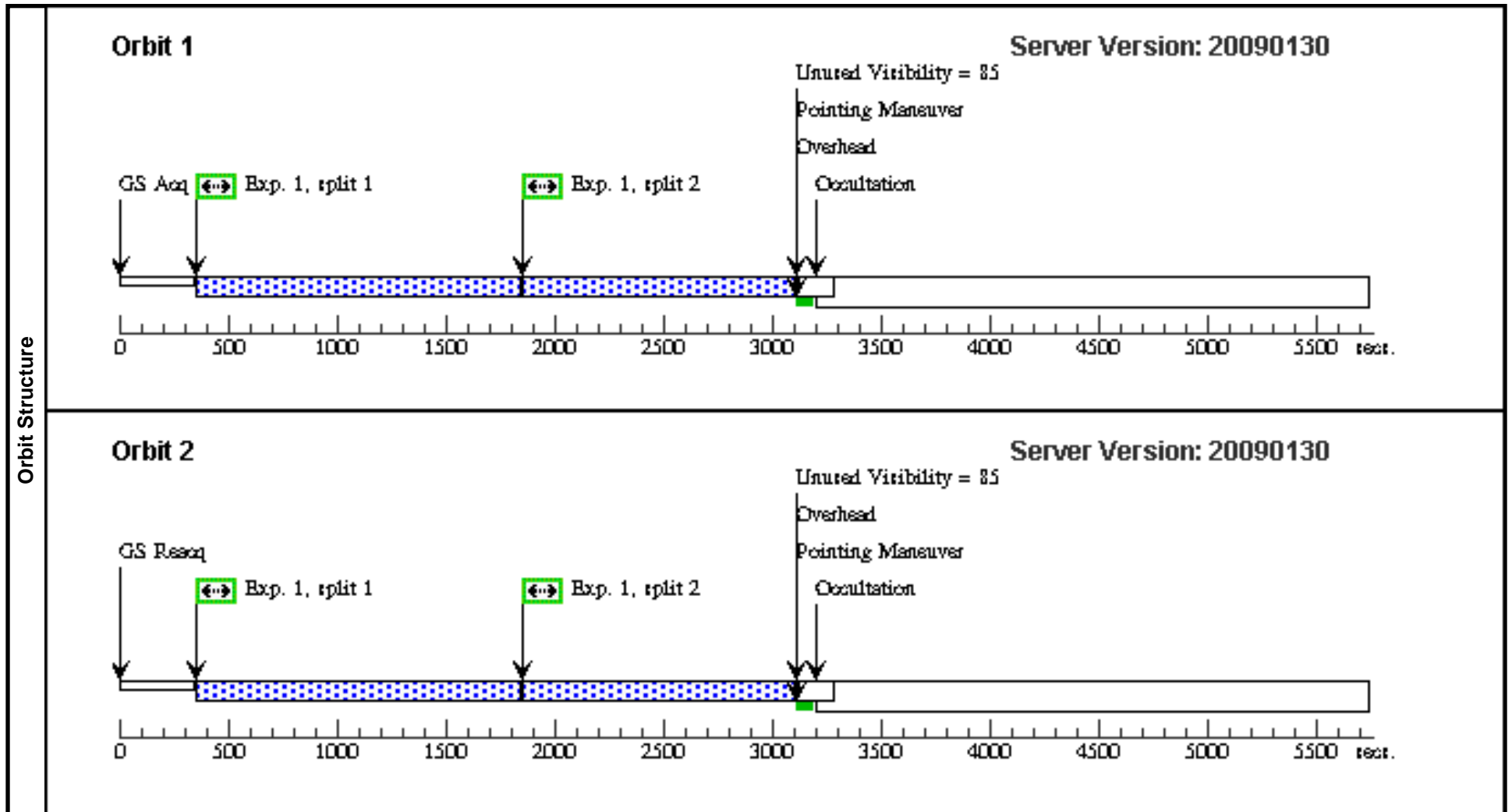
Server Version: 20090130

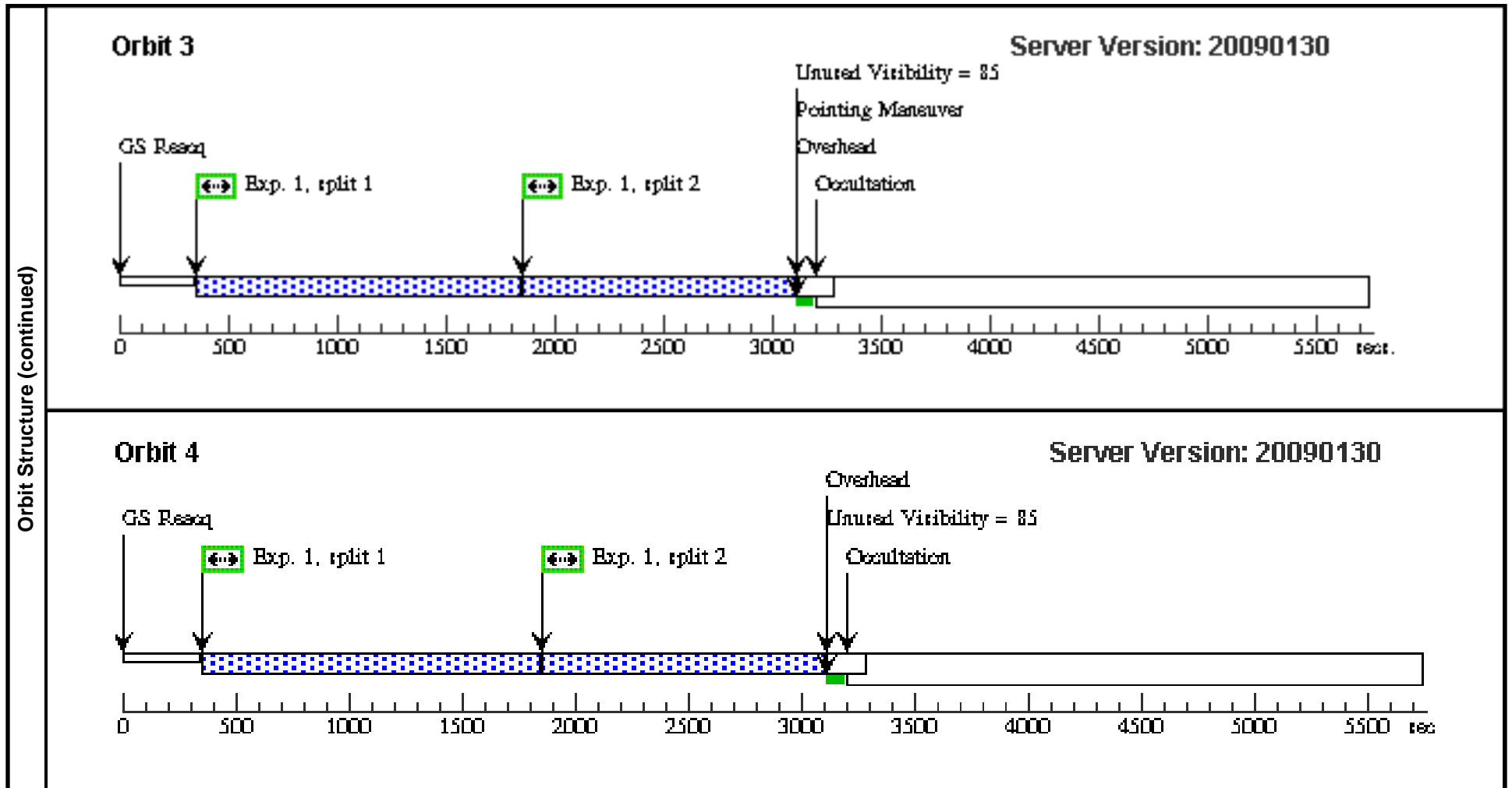


Proposal 11974 - Visit 22 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:39 GMT 2009

Visit	<b>Proposal 11974, Visit 22, failed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	BCS2352-5453	RA: 23 51 37.9999 (357.9083329d) Dec: -54 52 48.00 (-54.88000d) Equinox: J2000	Redshift: 0.85	V=22.13+/-2.2 g= 22.60, r= 21.80*	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(8) BCS2352-5453	WFPC2, IMAGE, WF3	F450W			Pattern 1, Exps 1-1 (1)	1108 Secs	
									[=>1200.0 Secs (Pattern 1, Split 1)]	[1]
									[=>1200.0 Secs (Pattern 1, Split 2)]	[2]
									[=>1200.0 Secs (Pattern 2, Split 1)]	[2]
									[=>1200.0 Secs (Pattern 2, Split 2)]	[3]
									[=>1200.0 Secs (Pattern 3, Split 1)]	[3]
								[=>1200.0 Secs (Pattern 3, Split 2)]	[4]	
								[=>1200.0 Secs (Pattern 4, Split 1)]	[4]	
								[=>1200.0 Secs (Pattern 4, Split 2)]	[4]	

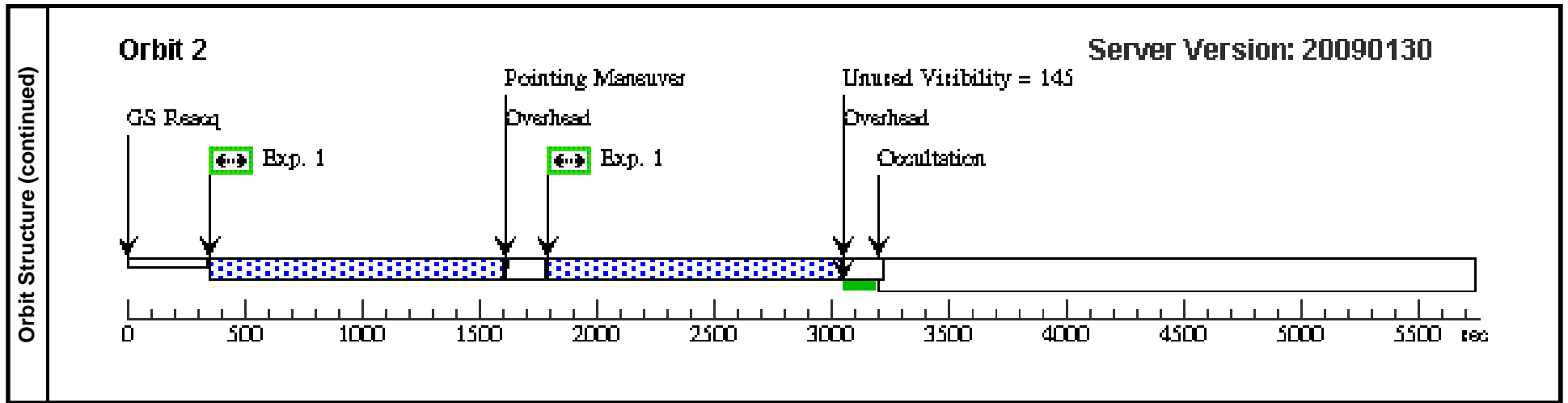




Proposal 11974 - Visit 23 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:39 GMT 2009

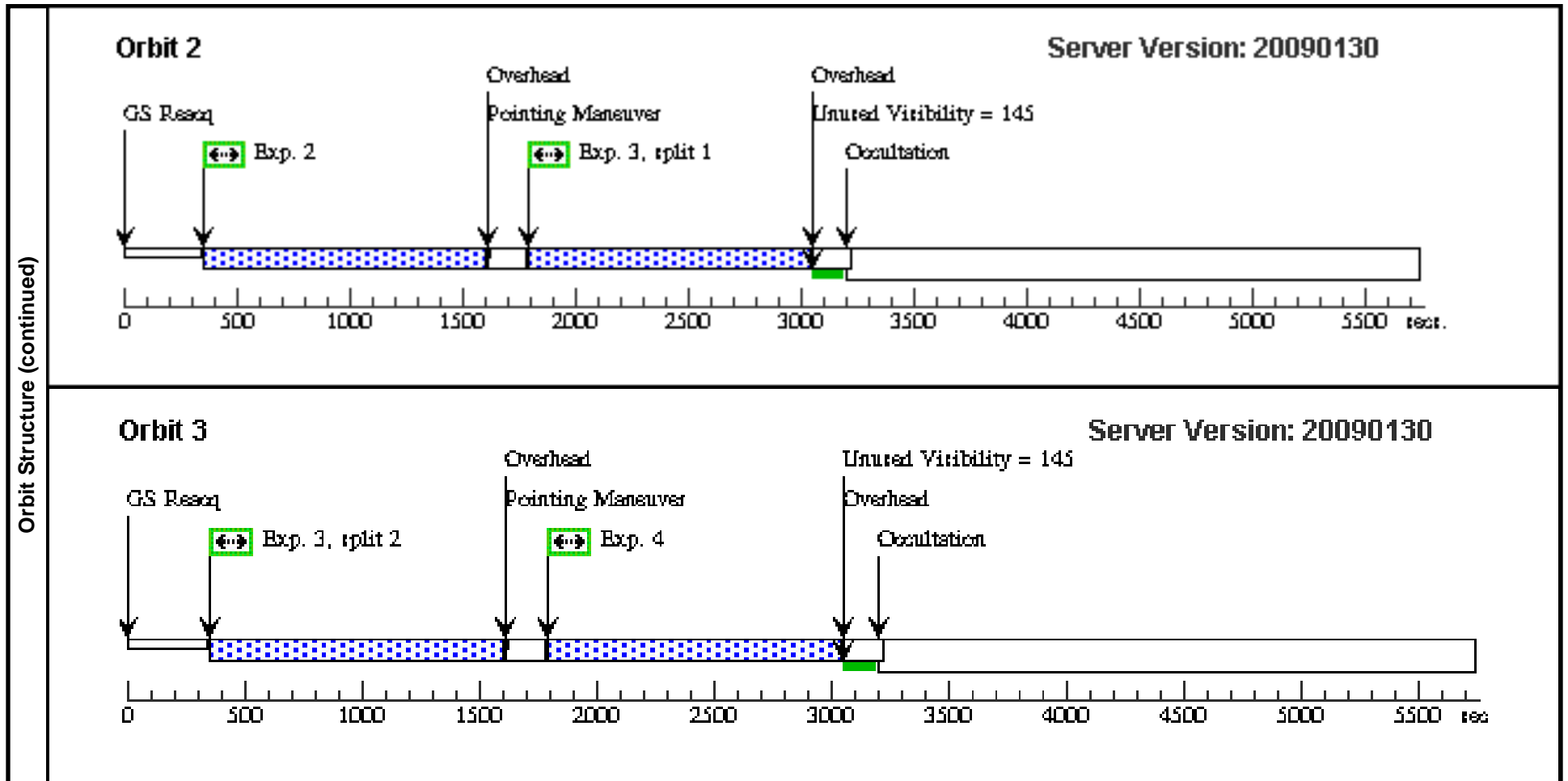
<b>Visit</b>	Proposal 11974, Visit 23, failed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 22									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>					
	(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1)					
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(8)	BCS2352-5453	RA: 23 51 37.9999 (357.9083329d) Dec: -54 52 48.00 (-54.88000d) Equinox: J2000	Redshift: 0.85	V=22.13+/-2.2 g= 22.60, r= 21.80*	Reference Frame: ICRS				
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Req.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	(8) BCS2352-5453	WFPC2, IMAGE, WF3	F606W				Pattern 1, Exps 1-1 (1)	600 Secs [==>1100.0 Secs (Pattern 1)] [==>1100.0 Secs (Pattern 2)] [==>1100.0 Secs (Pattern 3)] [==>1100.0 Secs (Pattern 4)]	[1] [2]
<b>Orbit Structure</b>	<b>Orbit 1</b> <span style="float: right;">Server Version: 20090130</span>									
	<p>The diagram shows the timeline for Orbit 1. The x-axis represents time in seconds, ranging from 0 to 5500. Key events are marked with arrows: GS Acq at approximately 300 seconds, Exp. 1 at approximately 400 seconds, a Pointing Maneuver at approximately 1600 seconds, another Exp. 1 at approximately 1800 seconds, a second Pointing Maneuver at approximately 3000 seconds, and Occultation at approximately 3100 seconds. A blue dotted bar indicates the observation period from approximately 400 seconds to 3100 seconds. A green bar at the bottom indicates the total observation time from 0 to 3100 seconds. The text 'Unused Visibility = 145' is shown between 3100 and 3250 seconds.</p>									



Proposal 11974 - Visit 24 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:39 GMT 2009

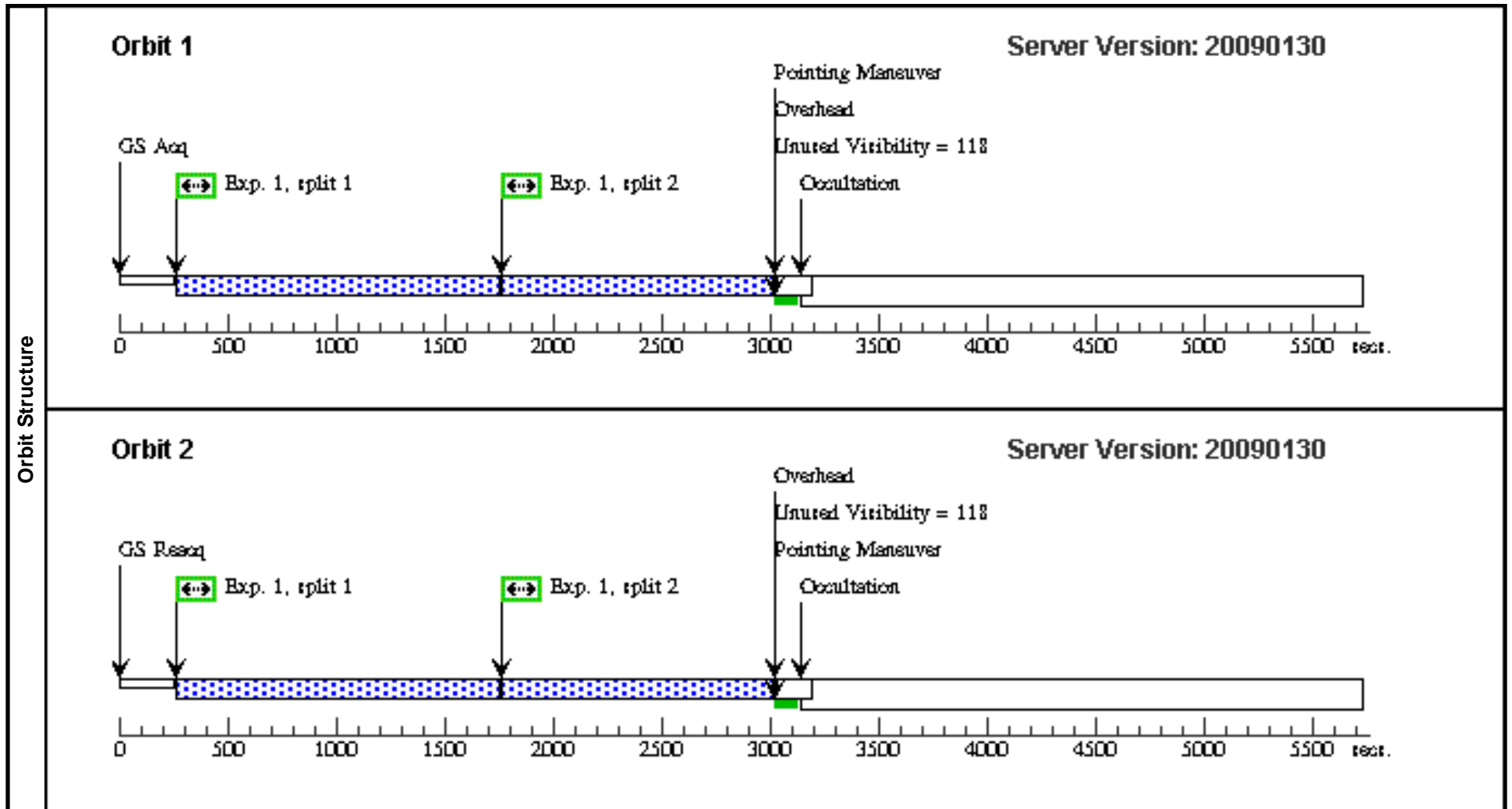
Visit	Proposal 11974, Visit 24, failed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 22									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(8)	BCS2352-5453	RA: 23 51 37.9999 (357.9083329d) Dec: -54 52 48.00 (-54.88000d) Equinox: J2000	Redshift: 0.85	V=22.13+/-2.2 g= 22.60, r= 21.80*	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(8) BCS2352-5453	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=.5	POS TARG 0,0		2300 Secs [=>1100.0 Secs (Split 1)] [=>1100.0 Secs (Split 2)]	[1]
	2		(8) BCS2352-5453	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO	POS TARG 0.747,0.747		1150 Secs [=>1100.0 Secs ]	[2]
	3		(8) BCS2352-5453	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=.5	POS TARG 0,0		2300 Secs [=>1100.0 Secs (Split 1)] [=>1100.0 Secs (Split 2)]	[2] [3]
	4		(8) BCS2352-5453	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO	POS TARG 0.249,0.489		1150 Secs [=>1100.0 Secs ]	[3]
Orbit Structure	<p><b>Orbit 1</b> <span style="float: right;">Server Version: 20090130</span></p> <p>Unused Visibility = 325</p> <p>Overhead</p> <p>Pointing Maneuver</p> <p>Occultation</p> <p>GS Acq</p> <p>Exp. 1, split 1</p> <p>Exp. 1, split 2</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec.</p>									

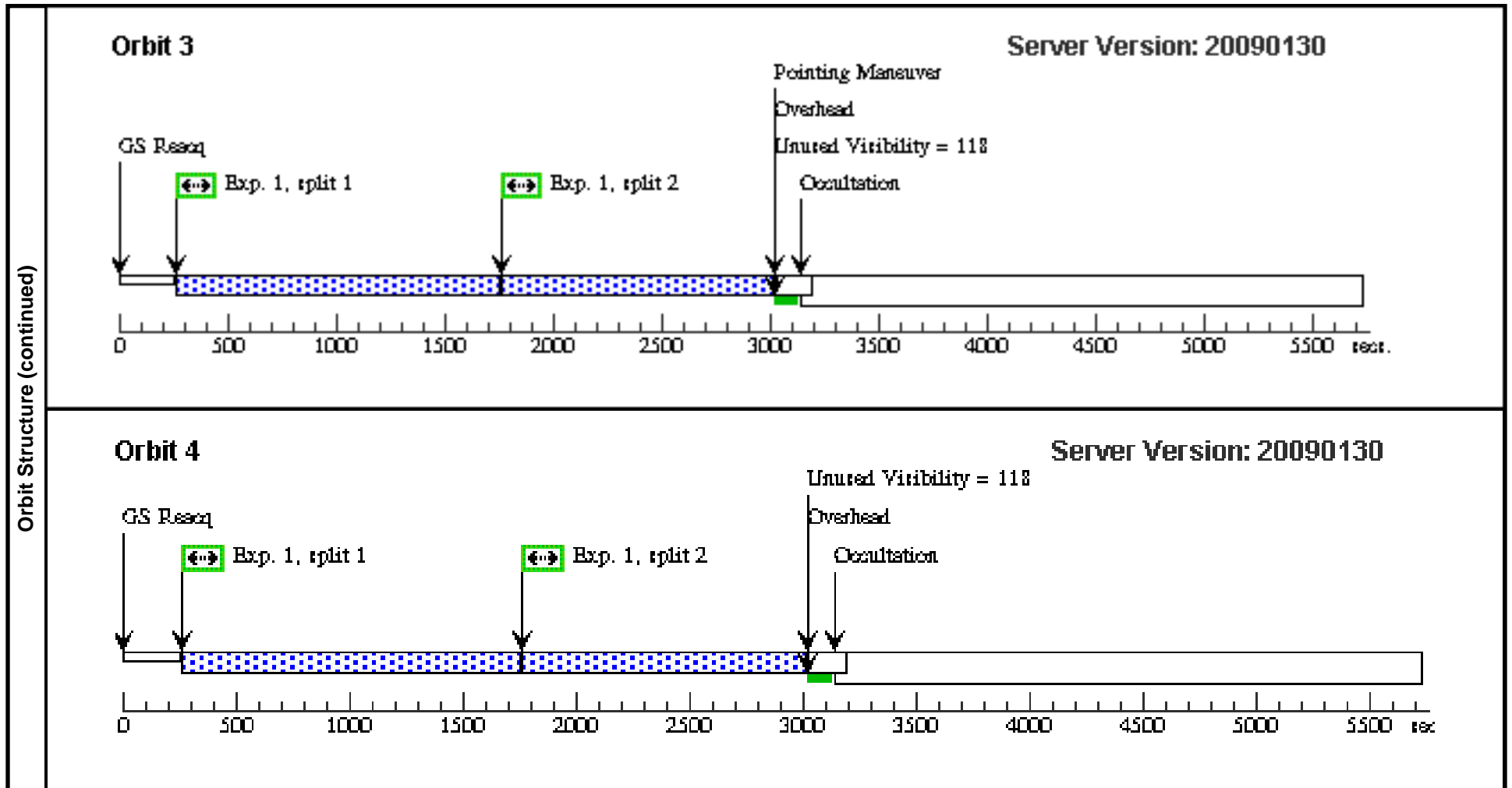


Proposal 11974 - Visit 25 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:40 GMT 2009

Visit	<b>Proposal 11974, Visit 25, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	SDSSJ1113+2356	RA: 11 13 10.6484 (168.2943683d) Dec: +23 56 39.53 (23.94431d) Equinox: J2000	Redshift: 0.77	V=23.80+/-2.3 g= 22.70, r= 24.60*	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(9) SDSSJ1113+2356 6	WFPC2, IMAGE, WF3	F450W		GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	1108 Secs	
									[=>1200.0 Secs (Pattern 1, Split 1)]	[1]
									[=>1200.0 Secs (Pattern 1, Split 2)]	[2]
									[=>1200.0 Secs (Pattern 2, Split 1)]	[2]
									[=>1200.0 Secs (Pattern 2, Split 2)]	[3]
									[=>1200.0 Secs (Pattern 3, Split 1)]	[3]
								[=>1200.0 Secs (Pattern 3, Split 2)]	[4]	
								[=>1200.0 Secs (Pattern 4, Split 1)]	[4]	
								[=>1200.0 Secs (Pattern 4, Split 2)]	[4]	

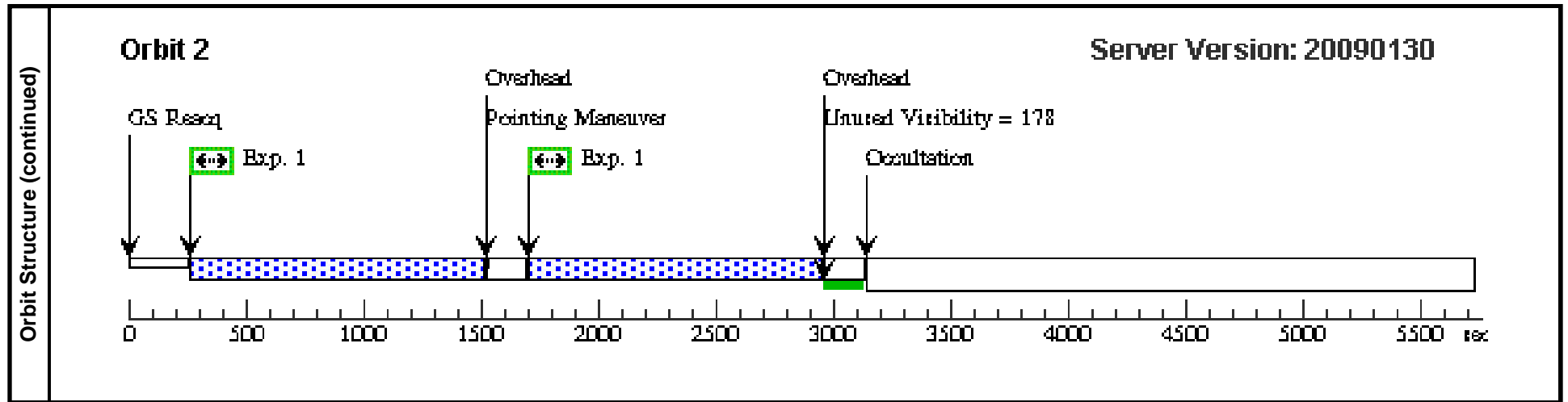




Proposal 11974 - Visit 26 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:41 GMT 2009

<b>Visit</b>	Proposal 11974, Visit 26, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 25																				
	<b>Patterns</b>	# <b>Primary Pattern</b> (1) Pattern Type=WFPC2-BOX      Coordinate Frame=POS-TARG Purpose=DITHER      Pattern Orientation=26.56505 Number Of Points=4      Angle Between Sides=143.130102 Point Spacing=0.559017      Center Pattern=false Line Spacing=0.559017	<b>Secondary Pattern</b>	<b>Exposures</b> (1)																	
<b>Fixed Targets</b>	# <b>Name</b> <b>Target Coordinates</b> <b>Targ. Coord. Corrections</b> <b>Fluxes</b> <b>Miscellaneous</b> (9) SDSSJ1113+2356      RA: 11 13 10.6484 (168.2943683d)      Redshift: 0.77      V=23.80+/-2.3      Reference Frame: ICRS Dec: +23 56 39.53 (23.94431d) Equinox: J2000      g= 22.70, r= 24.60*																				
<b>Exposures</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(9) SDSSJ1113+2356</td> <td>WFPC2, IMAGE, WF3</td> <td>F606W</td> <td></td> <td>GS ACQ SCENARI O SINGLE</td> <td>Pattern 1, Exps 1-1 (1)</td> <td>600 Secs [=&gt;1100.0 Secs (Pattern 1)] [=&gt;1100.0 Secs (Pattern 2)] [=&gt;1100.0 Secs (Pattern 3)] [=&gt;1100.0 Secs (Pattern 4)]</td> <td>[1] [2]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1		(9) SDSSJ1113+2356	WFPC2, IMAGE, WF3	F606W		GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	600 Secs [=>1100.0 Secs (Pattern 1)] [=>1100.0 Secs (Pattern 2)] [=>1100.0 Secs (Pattern 3)] [=>1100.0 Secs (Pattern 4)]	[1] [2]
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit												
1		(9) SDSSJ1113+2356	WFPC2, IMAGE, WF3	F606W		GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	600 Secs [=>1100.0 Secs (Pattern 1)] [=>1100.0 Secs (Pattern 2)] [=>1100.0 Secs (Pattern 3)] [=>1100.0 Secs (Pattern 4)]	[1] [2]												
<b>Orbit Structure</b>	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20090130</b></span></p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. A blue dotted bar indicates the observation period from approximately 300s to 3000s. Key events are marked with arrows: GS Acq at 0s, Exp. 1 (green box) at ~300s, Pointing Maneuver at ~1500s, another Exp. 1 at ~1800s, a second Pointing Maneuver at ~2800s, Unused Visibility = 178s at ~3000s, Overhead at ~3100s, and Occultation at ~3200s.</p>																				



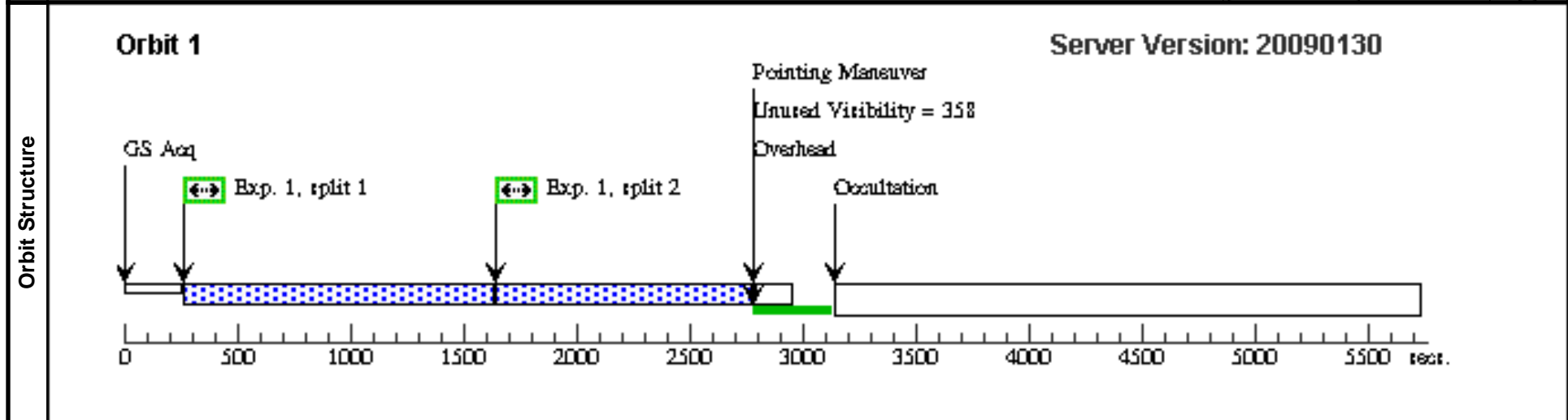
Proposal 11974 - Visit 27 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

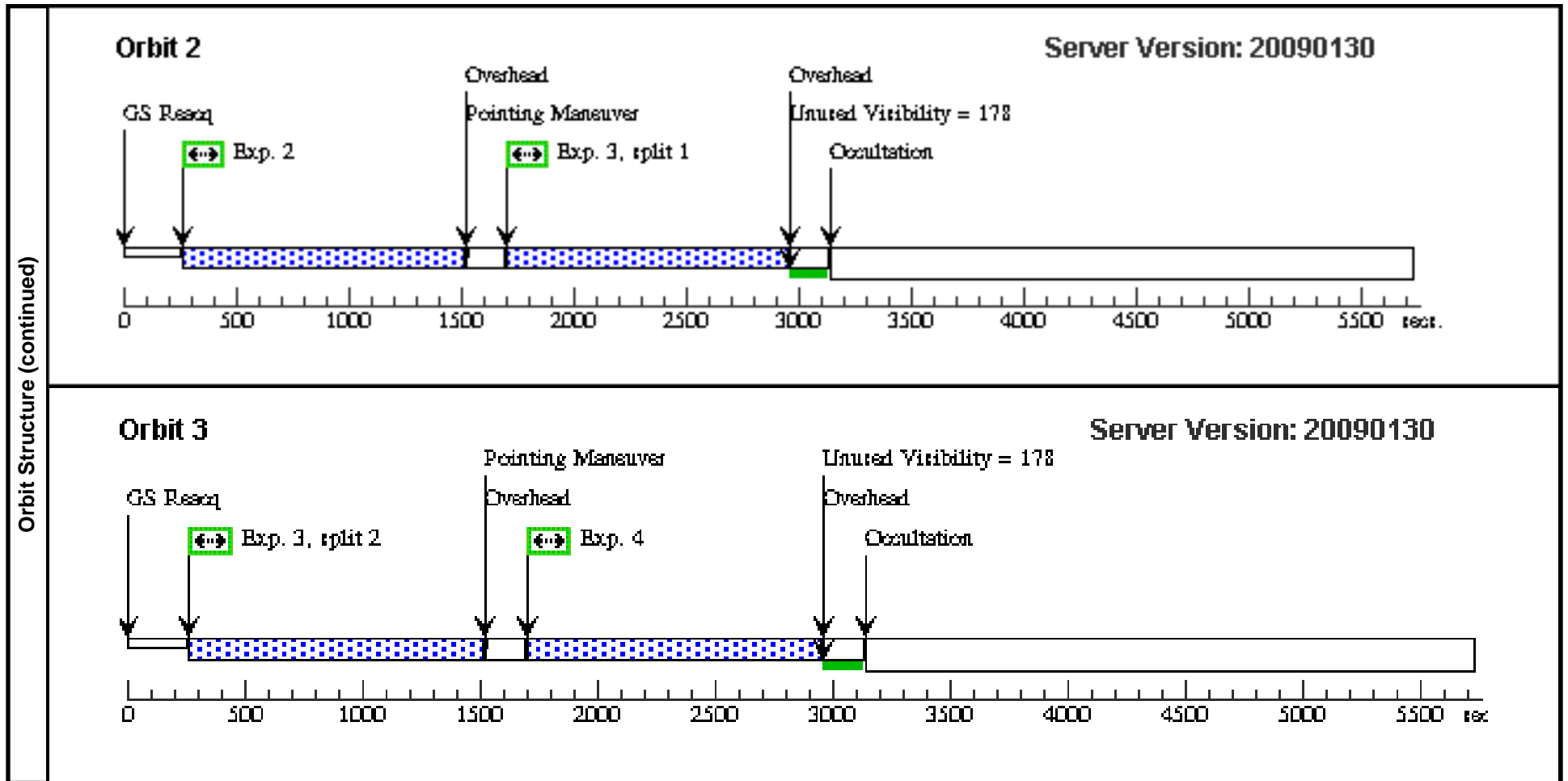
Sat Apr 11 01:14:41 GMT 2009

<b>Visit</b>	Proposal 11974, Visit 27, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFPC2				
	Special Requirements: SAME ORIENT AS 25				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	SDSSJ1113+2356	RA: 11 13 10.6484 (168.2943683d) Dec: +23 56 39.53 (23.94431d) Equinox: J2000	Redshift: 0.77	V=23.80+/-2.3 g= 22.70, r= 24.60*	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(9) SDSSJ1113+2356	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=.5	POS TARG 0,0; GS ACQ SCENARI O SINGLE		2300 Secs [=>1100.0 Secs (Split 1)] [=>1100.0 Secs (Split 2)]	[1]
	2		(9) SDSSJ1113+2356	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO	POS TARG 0.747,0. 747		1150 Secs [=>1100.0 Secs ]	[2]
	3		(9) SDSSJ1113+2356	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=.5	POS TARG 0,0		2300 Secs [=>1100.0 Secs (Split 1)] [=>1100.0 Secs (Split 2)]	[2] [3]
	4		(9) SDSSJ1113+2356	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO	POS TARG 0.249,0. 489		1150 Secs [=>1100.0 Secs ]	[3]

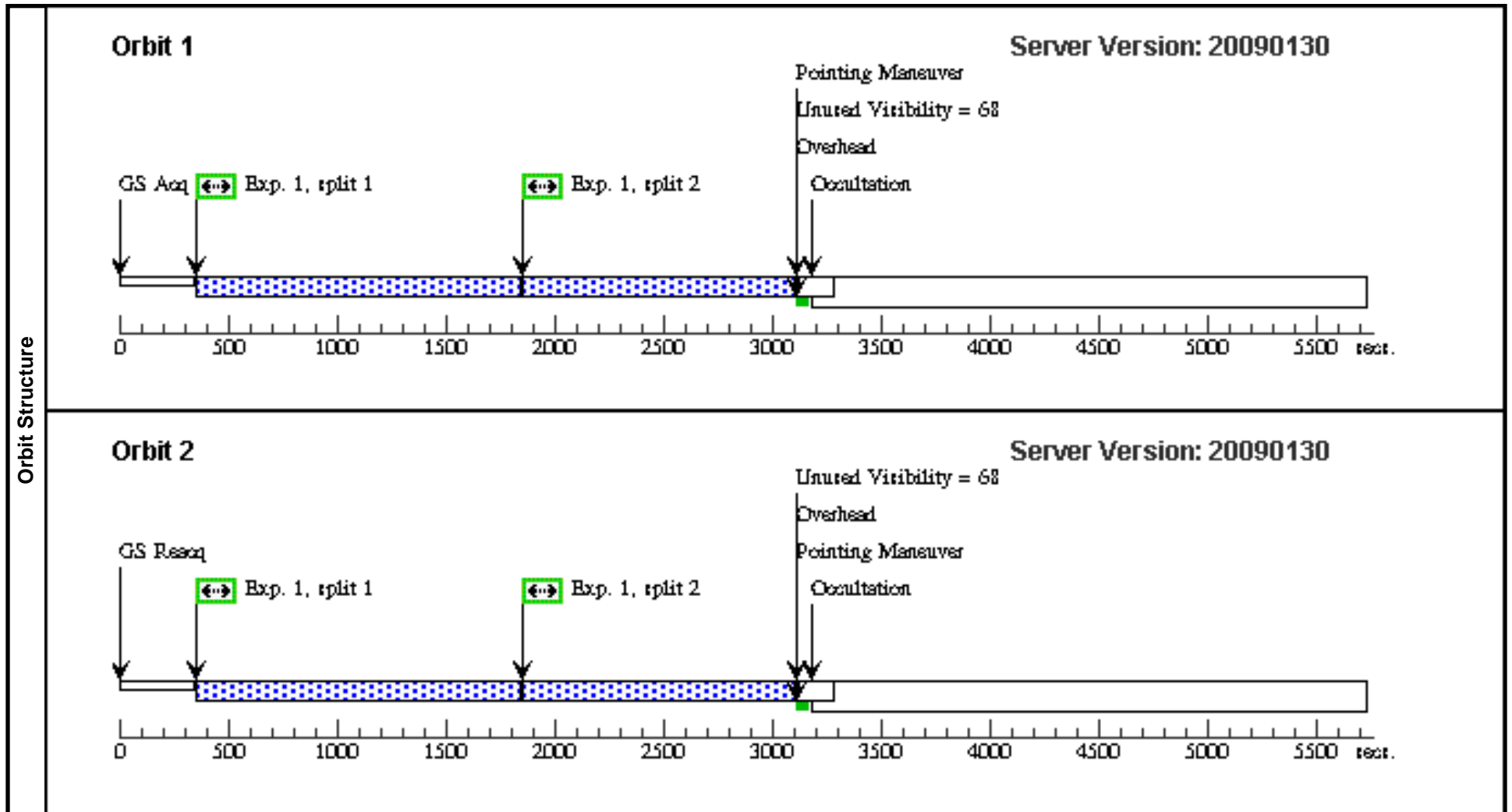


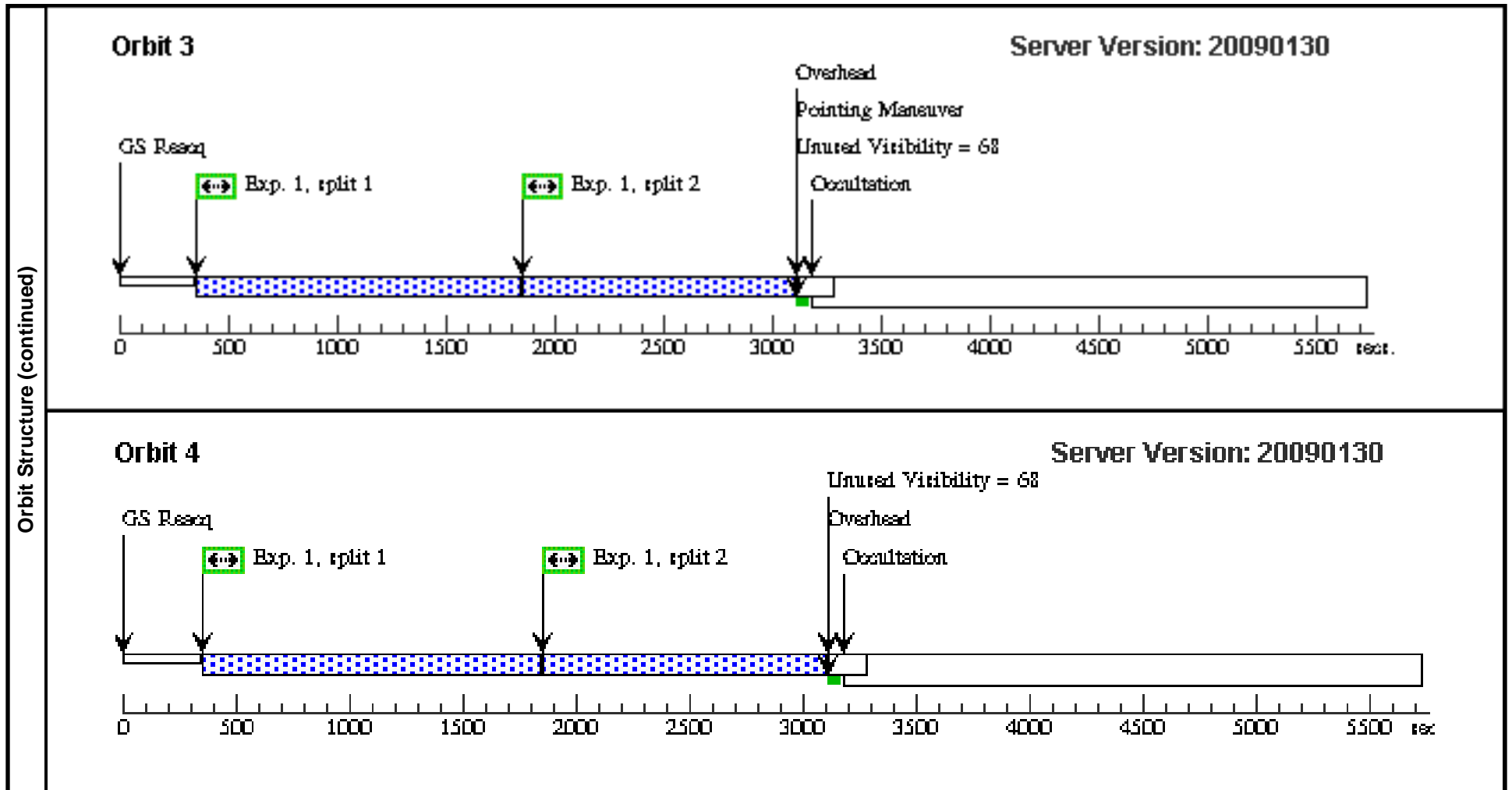


Proposal 11974 - Visit 28 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:41 GMT 2009

Visit	<b>Proposal 11974, Visit 28, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	SDSSJ1511+4713	RA: 15 11 18.7383 (227.8280762d) Dec: +47 13 40.32 (47.22787d) Equinox: J2000	Redshift: 0.98	V=22.66+/-2.2 g= 22.20, r= 23.00*	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(5) SDSSJ1511+4713	WFPC2, IMAGE, WF3	F450W		GS ACQ SCENARI O BASE1T3	Pattern 1, Exps 1-1 (1)	1108 Secs	
			3						[=>1200.0 Secs (Pattern 1, Split 1)]	[1]
									[=>1200.0 Secs (Pattern 1, Split 2)]	[2]
									[=>1200.0 Secs (Pattern 2, Split 1)]	[2]
									[=>1200.0 Secs (Pattern 2, Split 2)]	[3]
									[=>1200.0 Secs (Pattern 3, Split 1)]	[3]
								[=>1200.0 Secs (Pattern 3, Split 2)]	[4]	
								[=>1200.0 Secs (Pattern 4, Split 1)]	[4]	
								[=>1200.0 Secs (Pattern 4, Split 2)]	[4]	





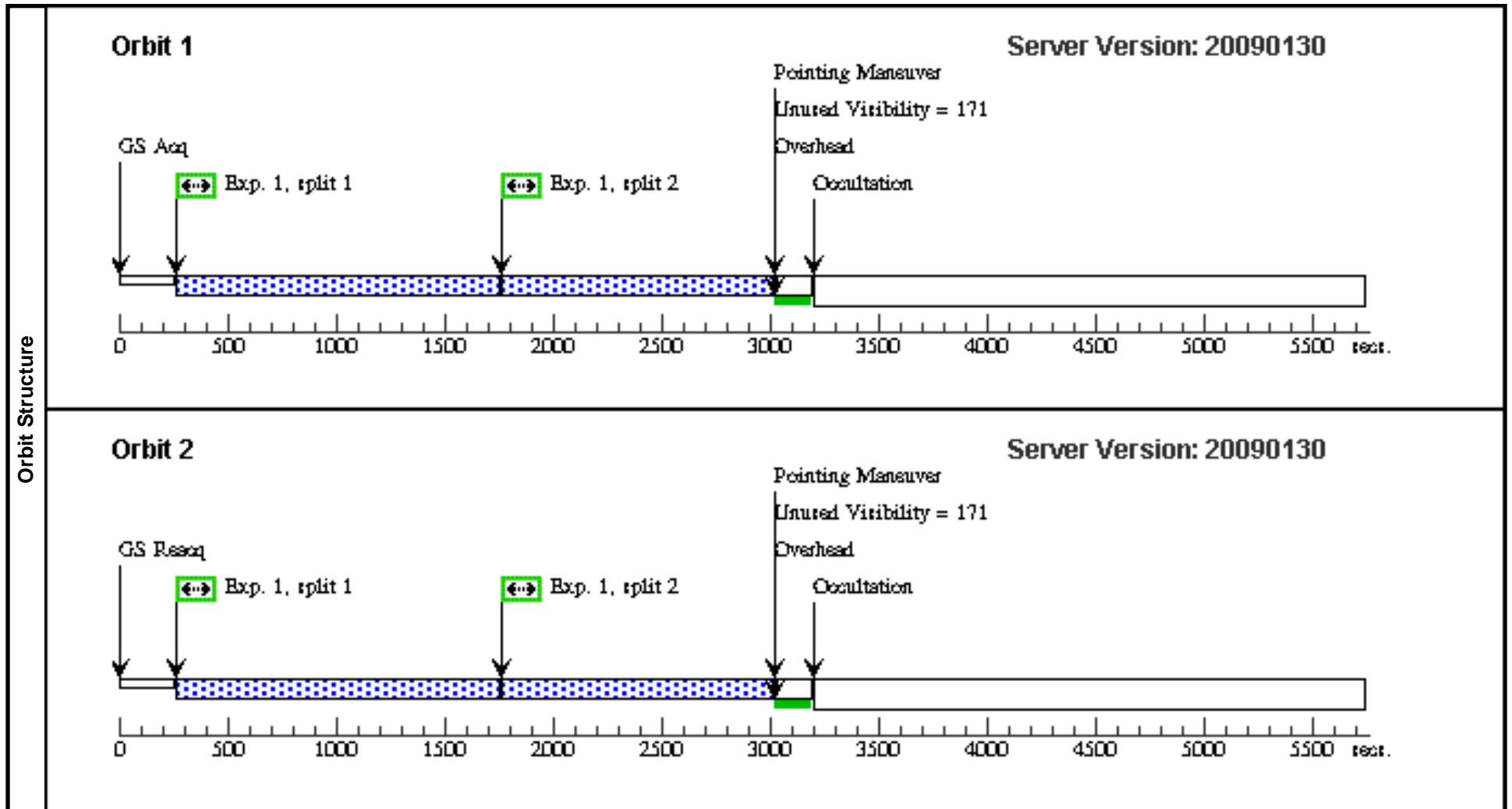
Proposal 11974 - Visit 29 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

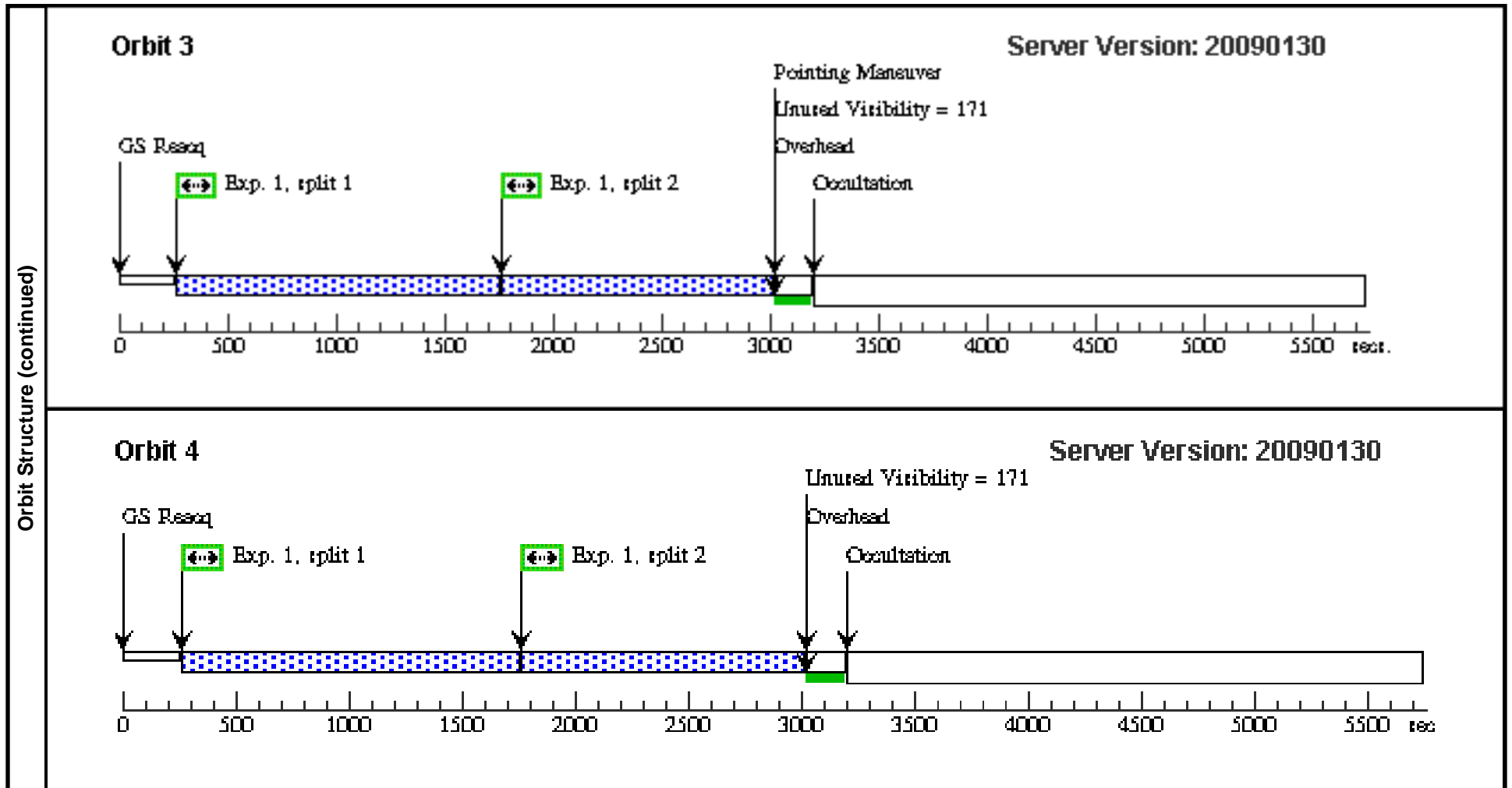
<b>Visit</b>	Proposal 11974, Visit 29, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 28					Sat Apr 11 01:14:42 GMT 2009				
	<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
(5)		SDSSJ1511+4713	RA: 15 11 18.7383 (227.8280762d) Dec: +47 13 40.32 (47.22787d) Equinox: J2000	Redshift: 0.98	V=22.66+/-2.2 g= 22.20, r= 23.00*	Reference Frame: ICRS				
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(5) SDSSJ1511+4713 3	(5) SDSSJ1511+4713	WFPC2, IMAGE, WF3	F606W	CR-SPLIT=.5	POS TARG 0,0; GS ACQ SCENARI O BASE1T3		2300 Secs [=>1200.0 Secs (Split 1)] [=>1200.0 Secs (Split 2)]	[1]
<b>Orbit Structure</b>	<b>Orbit 1</b>									
	<p>Server Version: 20090130</p> <p>Unused Visibility = 68</p> <p>Overhead</p> <p>Occultation</p> <p>GS Acq</p> <p>Exp. 1, split 1</p> <p>Exp. 1, split 2</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec</p>									

Proposal 11974 - Visit 30 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:42 GMT 2009

Visit	<b>Proposal 11974, Visit 30, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 31									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	BCS2352-5453	RA: 23 51 37.9999 (357.9083329d) Dec: -54 52 48.00 (-54.88000d) Equinox: J2000	Redshift: 0.85	V=22.13+/-2.2 g= 22.60, r= 21.80*	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(8) BCS2352-5453	WFPC2, IMAGE, WF3	F814W		GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	1108 Secs	
									[=>1200.0 Secs (Pattern 1, Split 1)]	[1]
									[=>1200.0 Secs (Pattern 1, Split 2)]	[2]
									[=>1200.0 Secs (Pattern 2, Split 1)]	[2]
									[=>1200.0 Secs (Pattern 2, Split 2)]	[3]
									[=>1200.0 Secs (Pattern 3, Split 1)]	[3]
								[=>1200.0 Secs (Pattern 3, Split 2)]	[4]	
								[=>1200.0 Secs (Pattern 4, Split 1)]	[4]	
								[=>1200.0 Secs (Pattern 4, Split 2)]	[4]	

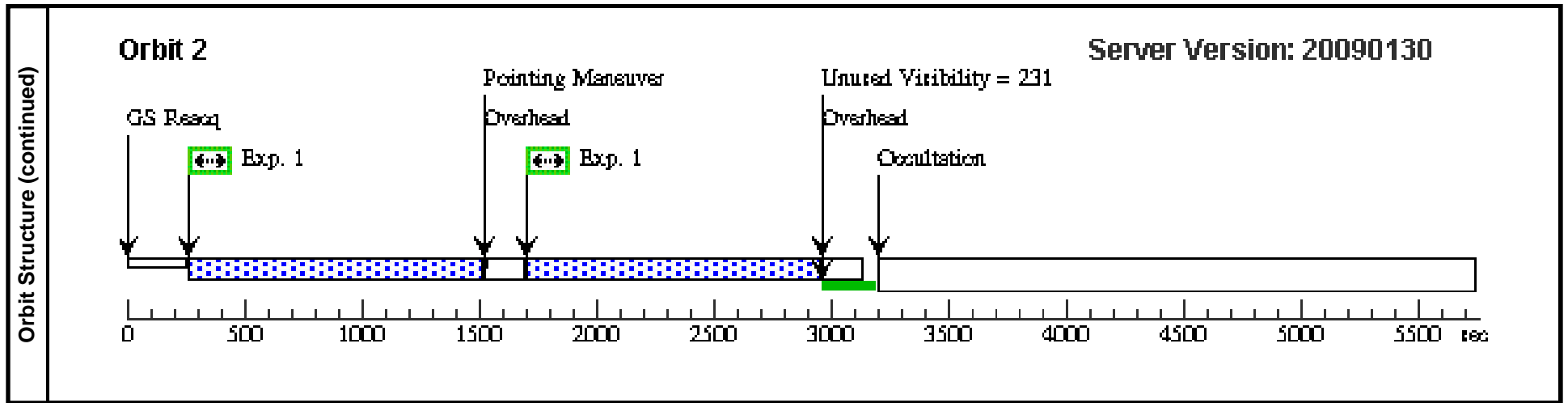




Proposal 11974 - Visit 31 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:43 GMT 2009

<b>Visit</b>	Proposal 11974, Visit 31, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)										
	<b>Patterns</b>	#	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>						
(1)		Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1)						
<b>Fixed Targets</b>	#	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>					
	(8)	BCS2352-5453	RA: 23 51 37.9999 (357.9083329d) Dec: -54 52 48.00 (-54.88000d) Equinox: J2000	Redshift: 0.85	V=22.13+/-2.2 g= 22.60, r= 21.80*	Reference Frame: ICRS					
<b>Exposures</b>	#	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>	
	1	(8) BCS2352-5453	WFPC2, IMAGE, WF3	F606W			GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	600 Secs [==>1100.0 Secs (Pattern 1)] [==>1100.0 Secs (Pattern 2)] [==>1100.0 Secs (Pattern 3)] [==>1100.0 Secs (Pattern 4)]	[1]  [2]	
<b>Orbit Structure</b>	<b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20090130</b></span>										
	<p>Unused Visibility = 231</p> <p>GS Acq</p> <p>Exp. 1</p> <p>Overhead</p> <p>Pointing Maneuver</p> <p>Exp. 1</p> <p>Overhead</p> <p>Pointing Maneuver</p> <p>Overhead</p> <p>Occultation</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec.</p>										



Proposal 11974 - Visit 32 - High-resolution imaging for 9 very bright, spectroscopically confirmed, group-scale lenses

Sat Apr 11 01:14:43 GMT 2009

<b>Visit</b>	Proposal 11974, Visit 32, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 31									
	<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
(8)		BCS2352-5453	RA: 23 51 37.9999 (357.9083329d) Dec: -54 52 48.00 (-54.88000d) Equinox: J2000	Redshift: 0.85	V=22.13+/-2.2 g= 22.60, r= 21.80*	Reference Frame: ICRS				
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(8) BCS2352-5453	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=.5	POS TARG 0,0; GS ACQ SCENARI O SINGLE			2300 Secs [=>1100.0 Secs (Split 1)] [=>1100.0 Secs (Split 2)]	[1]
	2	(8) BCS2352-5453	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO	POS TARG 0.747,0. 747			1150 Secs [=>1100.0 Secs ]	[2]
	3	(8) BCS2352-5453	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=.5	POS TARG 0,0			2300 Secs [=>1100.0 Secs (Split 1)] [=>1100.0 Secs (Split 2)]	[2] [3]
	4	(8) BCS2352-5453	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO	POS TARG 0.249,0. 489			1150 Secs [=>1100.0 Secs ]	[3]
<b>Orbit Structure</b>	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20090130</b></span></p> <p>Unused Visibility = 411</p> <p>GS Acq</p> <p>Exp. 1, split 1</p> <p>Exp. 1, split 2</p> <p>Pointing Maneuver</p> <p>Overhead Occultation</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec.</p>									

