



11732 - The Temperature Profiles of Quasar Accretion Disks

Cycle: 17, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(8) HE0435-1223-EAST20	WFC3/UVIS	1	30-Jun-2009 22:53:07.0	yes
02	(8) HE0435-1223-EAST20	WFC3/UVIS	1	30-Jun-2009 22:53:10.0	yes
03	(8) HE0435-1223-EAST20	WFC3/UVIS	1	30-Jun-2009 22:53:13.0	yes
04	(8) HE0435-1223-EAST20	WFC3/UVIS	1	30-Jun-2009 22:53:15.0	yes
05	(8) HE0435-1223-EAST20	WFC3/UVIS	1	30-Jun-2009 22:53:17.0	yes
06	(7) SDSS0924+0219-NORTH20	WFC3/UVIS	1	30-Jun-2009 22:53:20.0	yes
07	(7) SDSS0924+0219-NORTH20	WFC3/UVIS	1	30-Jun-2009 22:53:22.0	yes

Proposal 11732 (STScI Edit Number: 7, Created: Tuesday, June 30, 2009 9:54:00 PM EST) - Overview

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
08	(7) SDSS0924+0219-NORTH20	WFC3/UVIS	1	30-Jun-2009 22:53:24.0	yes
09	(7) SDSS0924+0219-NORTH20	WFC3/UVIS	1	30-Jun-2009 22:53:26.0	yes
10	(7) SDSS0924+0219-NORTH20	WFC3/UVIS	1	30-Jun-2009 22:53:28.0	yes
11	(10) SDSS1004+4112-SOUTHWEST20	WFC3/UVIS	1	30-Jun-2009 22:53:30.0	yes
12	(10) SDSS1004+4112-SOUTHWEST20	WFC3/UVIS	1	30-Jun-2009 22:53:32.0	yes
13	(63) SDSS1004+4112-NE20	WFC3/UVIS	1	30-Jun-2009 22:53:34.0	yes
14	(3) SDSS1004+4112	WFC3/UVIS	1	30-Jun-2009 22:53:36.0	yes
15	(10) SDSS1004+4112-SOUTHWEST20	WFC3/UVIS	1	30-Jun-2009 22:53:38.0	yes
16	(4) HE1104-1805	WFC3/UVIS	1	30-Jun-2009 22:53:40.0	yes
17	(4) HE1104-1805	WFC3/UVIS	1	30-Jun-2009 22:53:42.0	yes
18	(4) HE1104-1805	WFC3/UVIS	1	30-Jun-2009 22:53:44.0	yes
19	(4) HE1104-1805	WFC3/UVIS	1	30-Jun-2009 22:53:46.0	yes
20	(4) HE1104-1805	WFC3/UVIS	1	30-Jun-2009 22:53:48.0	yes
21	(9) PG1115+080-EAST20	WFC3/UVIS	1	30-Jun-2009 22:53:50.0	yes
22	(9) PG1115+080-EAST20	WFC3/UVIS	1	30-Jun-2009 22:53:52.0	yes
23	(9) PG1115+080-EAST20	WFC3/UVIS	1	30-Jun-2009 22:53:53.0	yes
24	(9) PG1115+080-EAST20	WFC3/UVIS	1	30-Jun-2009 22:53:55.0	yes
25	(9) PG1115+080-EAST20	WFC3/UVIS	1	30-Jun-2009 22:53:57.0	yes

25 Total Orbits Used

ABSTRACT

We can now routinely measure the size of quasar accretion disks using gravitational microlensing of lensed quasars. At optical wavelengths we observe a size and scaling with black hole mass roughly consistent with thin disk theory but the sizes are larger than expected from the observed optical fluxes. One solution would be to use a flatter temperature profile, which we can study by measuring the wavelength dependence of the disk size over the largest possible wavelength baseline. Thus, to understand the size discrepancy and to probe closer to the inner edge of the disk we need to extend our measurements to UV wavelengths, and this can only be done with HST. For example, in the UV we should see significant changes in the optical/UV size ratio with black hole mass. We propose monitoring 5 lenses spanning a broad range of black hole masses with well-sampled ground based light curves, optical disk size measurements and known GALEX UV fluxes during Cycles 17 and 18 to expand from our current sample of two lenses. We would obtain 5 observations of each target in each Cycle, similar to our successful strategy for the first two targets.

OBSERVING DESCRIPTION

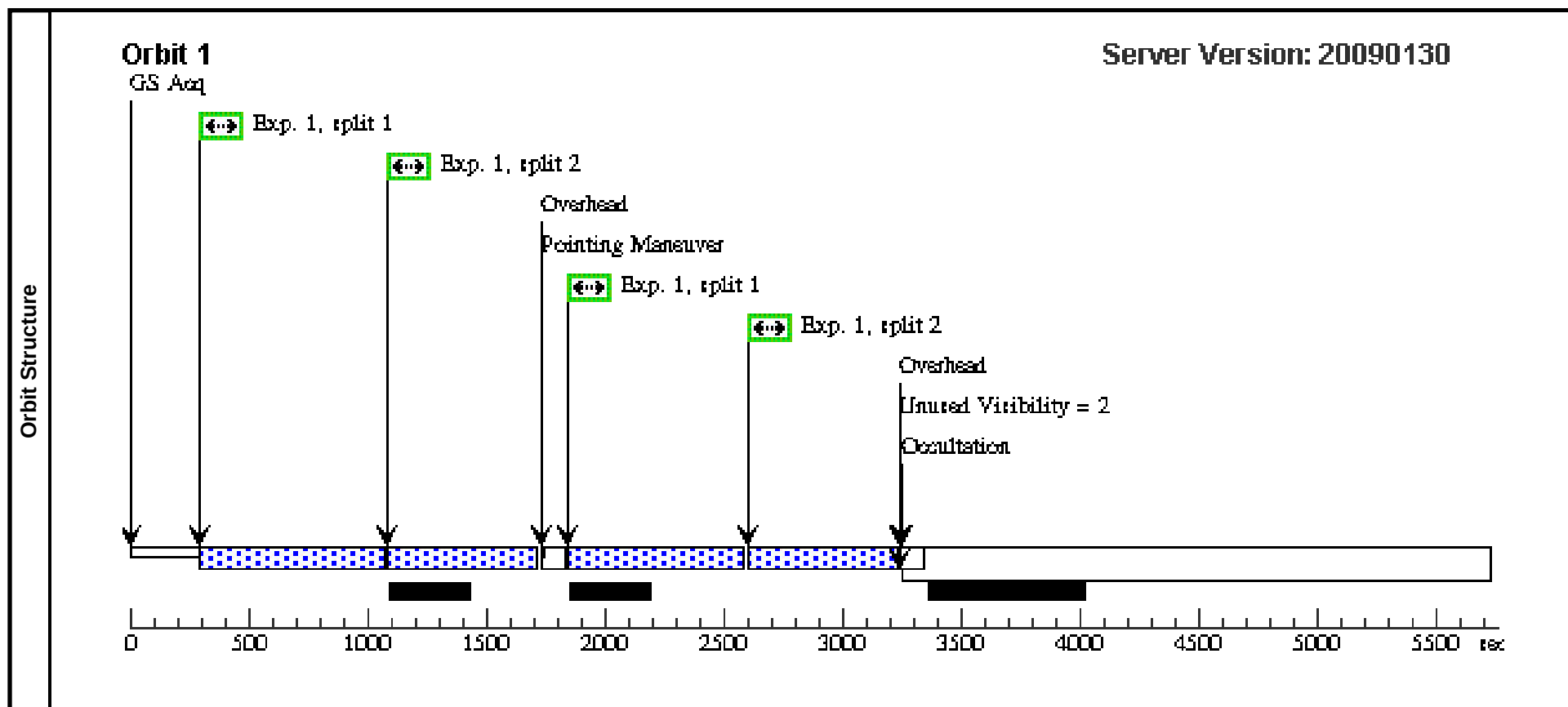
Each individual observation is a dithered UV observation with WFC3/UVIS optimally positioned on Chip 2. Four exposures with a single dither.

For each of the 5 targets, the 5 cycle 17 observations are spread through the cycle to optimize the temporal coverage. There is some freedom to adjust this, but STScI should consult with us on any changes.

If the repair mission is significantly delayed, the observing plans will need to be updated. If it is canceled or failed, most of the targets can be observed with ACS/SBC with minimal scientific losses.

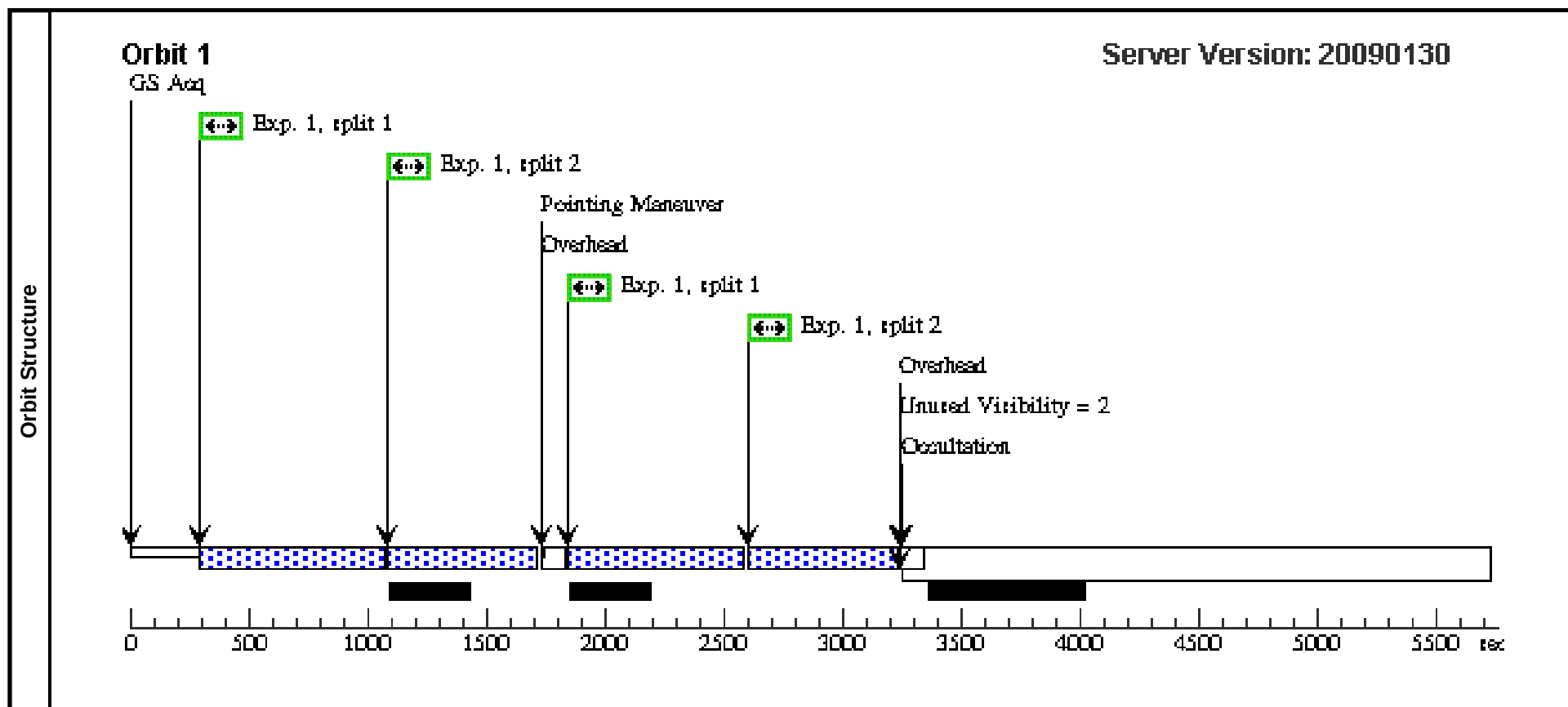
Proposal 11732 - Visit 01 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 01, implementation Wed Jul 01 02:54:00 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-DEC-2009:00:00:00 AND 31-DEC-2009:00:00:00									
Patterns	#	Primary Pattern			Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false				(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(8)	HE0435-1223-EAST20	RA: 04 38 13.5300 (69.5563750d) Dec: -12 17 14.40 (-12.28733d) Equinox: J2000				V=18.6+/-0.3		Reference Frame: HST	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(8) HE0435-1223-E AST20	WFC3/UVIS, ACCUM, UVIS2	F275W			Pattern 1, Exps 1-1 (1)	1200 Secs	
									[=>631.0 Secs (Pattern 1, Split 1)]	
									[=>631.0 Secs (Pattern 1, Split 2)]	
									[=>631.0 Secs (Pattern 2, Split 1)]	
									[=>631.0 Secs (Pattern 2, Split 2)]	[1]



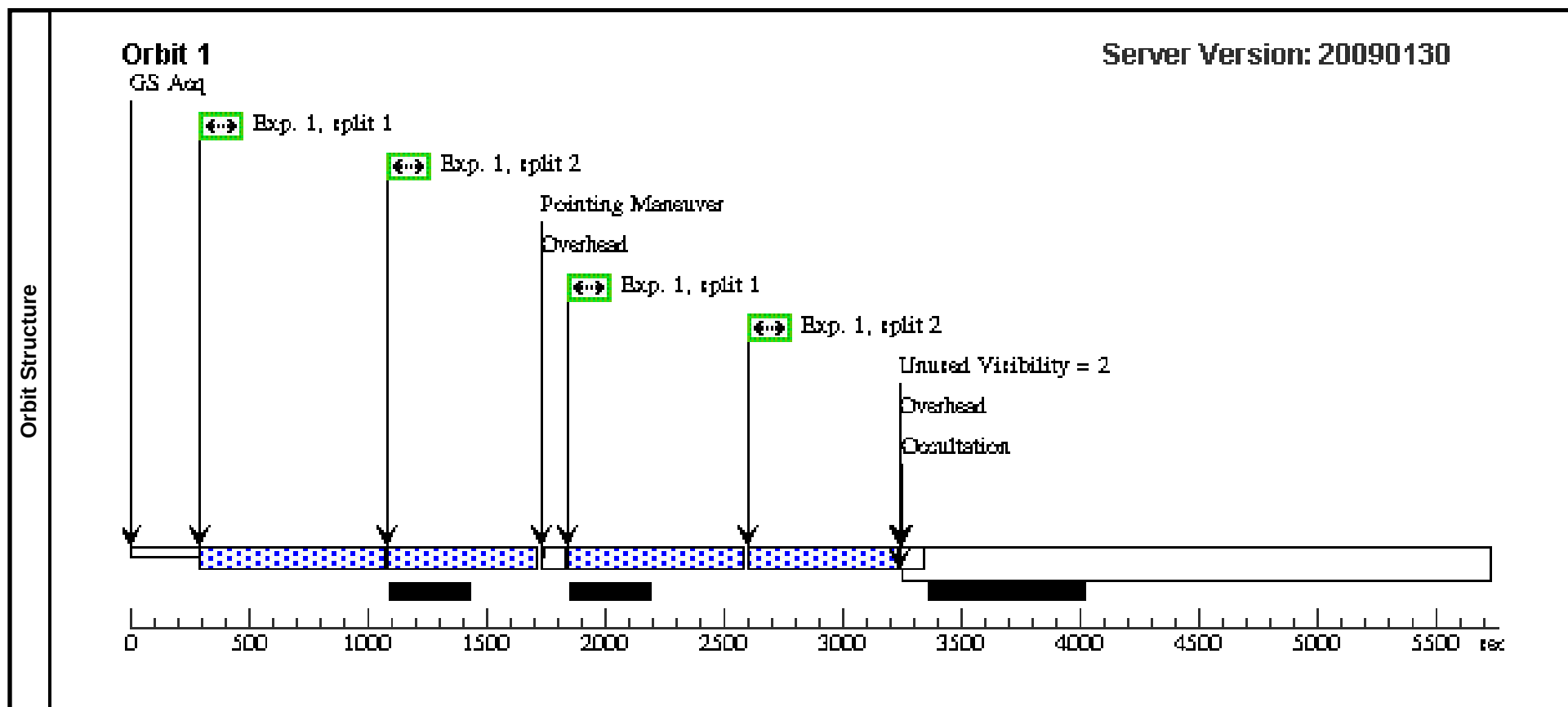
Proposal 11732 - Visit 02 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 02, implementation Wed Jul 01 02:54:01 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 15-MAR-2010:00:00:00 AND 15-APR-2010:00:00:00									
Patterns	#	Primary Pattern			Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false				(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(8)	HE0435-1223-EAST20	RA: 04 38 13.5300 (69.5563750d) Dec: -12 17 14.40 (-12.28733d) Equinox: J2000				V=18.6+/-0.3		Reference Frame: HST	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(8) HE0435-1223-EAST20	WFC3/UVIS, ACCUM, UVIS1	F275W		GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-1 (1)	1200 Secs	
									[==>631.0 Secs (Pattern 1, Split 1)]	
									[==>631.0 Secs (Pattern 1, Split 2)]	
									[==>631.0 Secs (Pattern 2, Split 1)]	
									[==>631.0 Secs (Pattern 2, Split 2)]	[1]



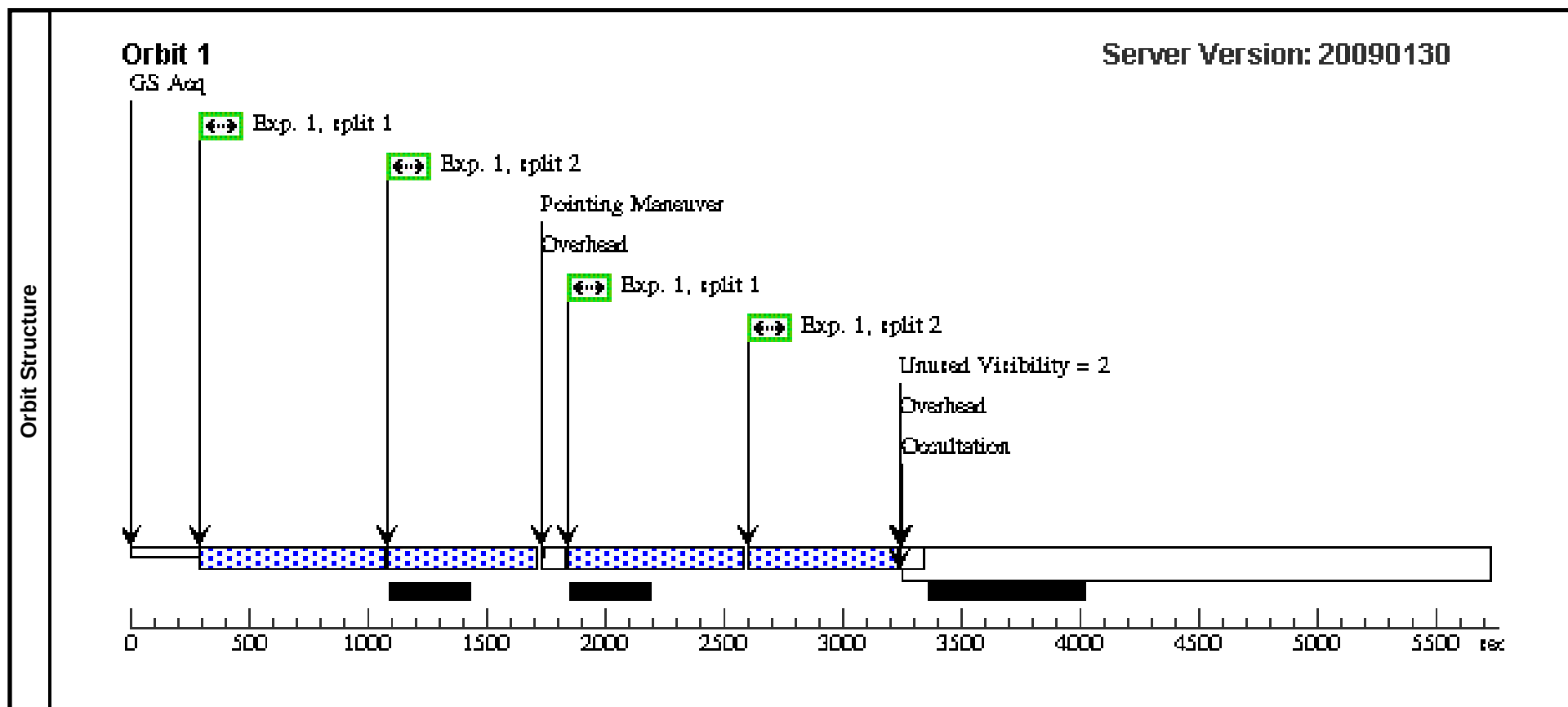
Proposal 11732 - Visit 03 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 03, implementation Wed Jul 01 02:54:02 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-JUL-2010:00:00:00 AND 30-AUG-2010:00:00:00									
Patterns	#	Primary Pattern			Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false				(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(8)	HE0435-1223-EAST20	RA: 04 38 13.5300 (69.5563750d) Dec: -12 17 14.40 (-12.28733d) Equinox: J2000				V=18.6+/-0.3		Reference Frame: HST	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(8) HE0435-1223-EAST20	WFC3/UVIS, ACCUM, UVIS1	F275W			Pattern 1, Exps 1-1 (1)	1200 Secs	
									[=>631.0 Secs (Pattern 1, Split 1)]	
									[=>631.0 Secs (Pattern 1, Split 2)]	
									[=>631.0 Secs (Pattern 2, Split 1)]	
									[=>631.0 Secs (Pattern 2, Split 2)]	[1]



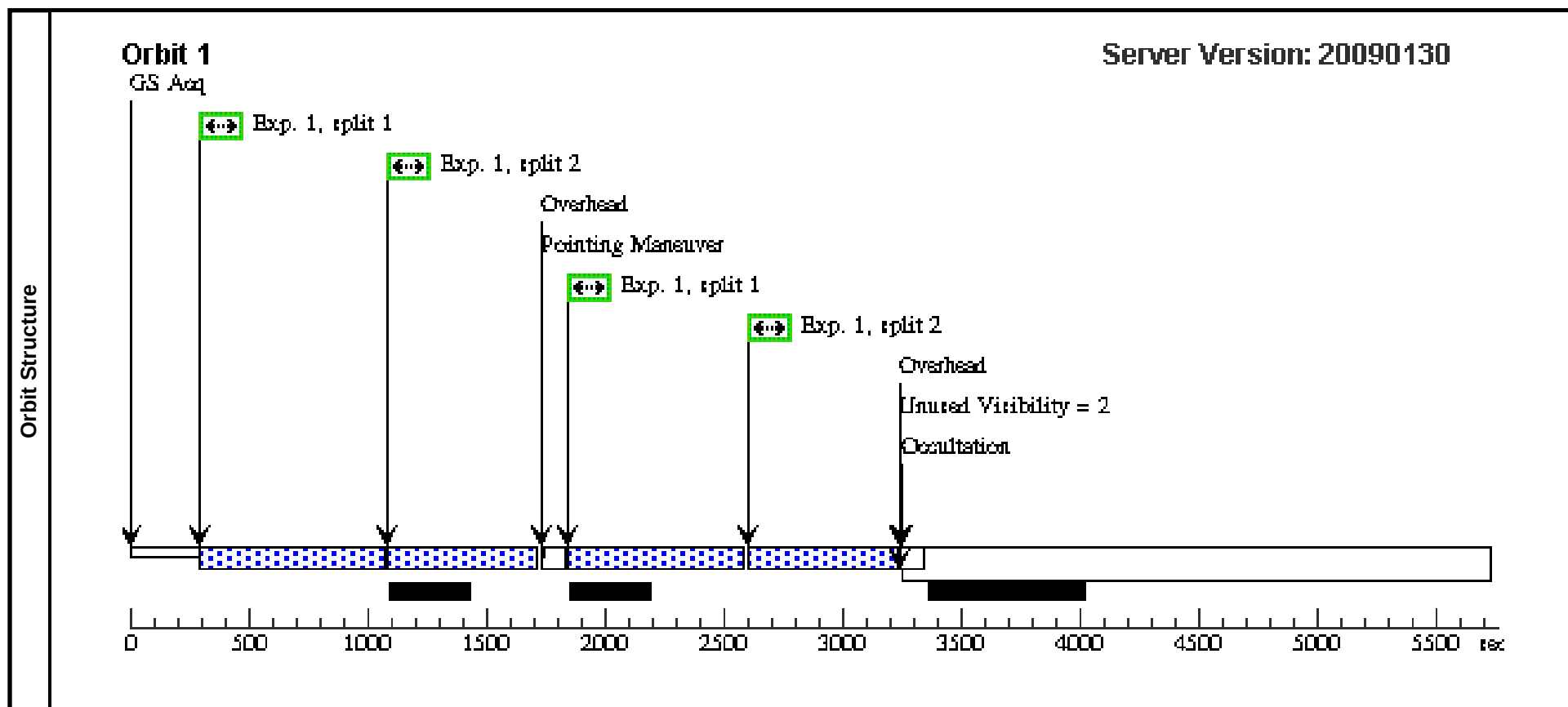
Proposal 11732 - Visit 04 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 04, implementation Wed Jul 01 02:54:02 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 15-AUG-2009:00:00:00 AND 15-SEP-2009:00:00:00									
Patterns	#	Primary Pattern			Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false				(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(8)	HE0435-1223-EAST20	RA: 04 38 13.5300 (69.5563750d) Dec: -12 17 14.40 (-12.28733d) Equinox: J2000				V=18.6+/-0.3		Reference Frame: HST	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(8) HE0435-1223-EAST20	WFC3/UVIS, ACCUM, UVIS1	F275W			Pattern 1, Exps 1-1 (1)	1200 Secs [=>631.0 Secs (Pattern 1, Split 1)] [=>631.0 Secs (Pattern 1, Split 2)] [=>631.0 Secs (Pattern 2, Split 1)] [=>631.0 Secs (Pattern 2, Split 2)]	[1]



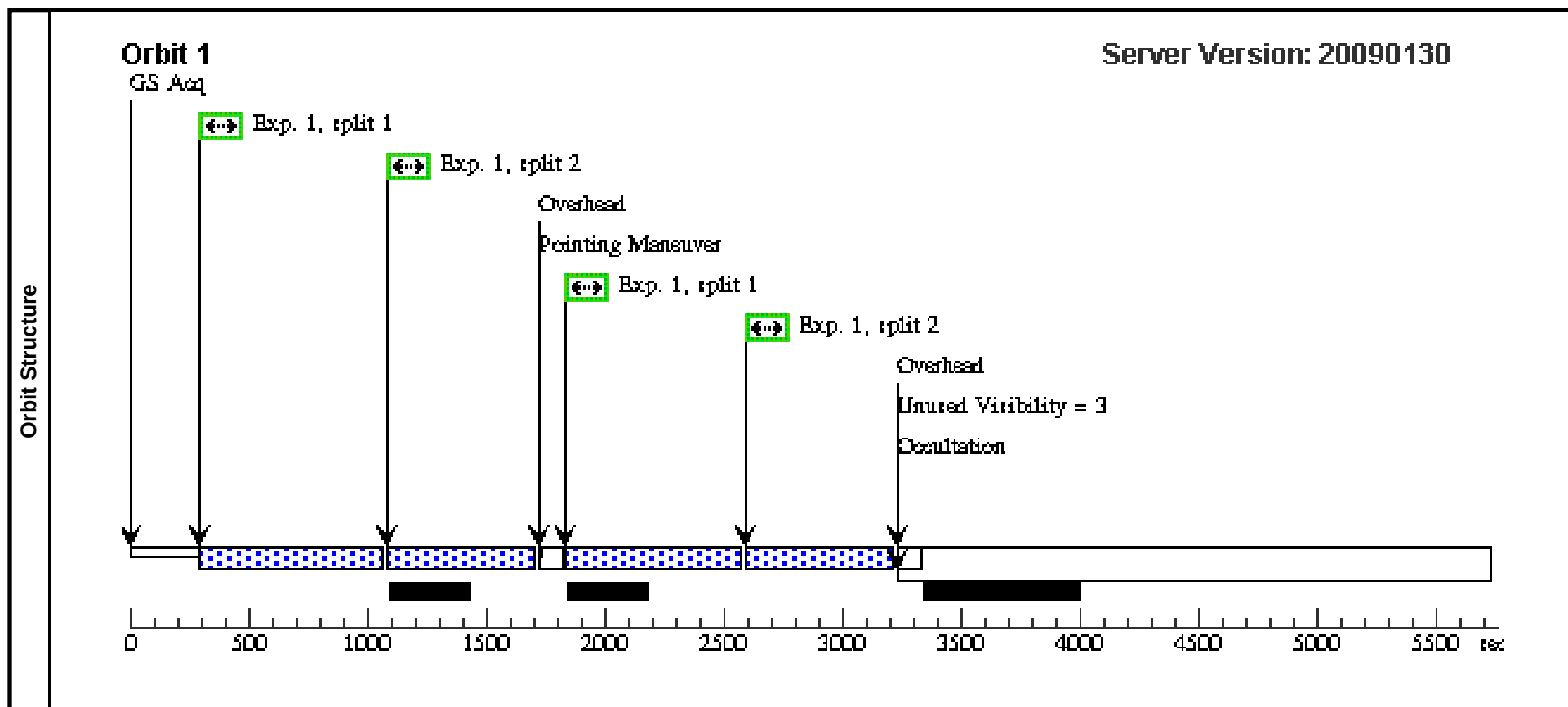
Proposal 11732 - Visit 05 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 05, implementation										Wed Jul 01 02:54:03 GMT 2009		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: BETWEEN 15-OCT-2009:00:00:00 AND 15-NOV-2009:00:00:00												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=										(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(8)	HE0435-1223-EAST20		RA: 04 38 13.5300 (69.5563750d) Dec: -12 17 14.40 (-12.28733d) Equinox: J2000				V=18.6+/-0.3		Reference Frame: HST			
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit	
	1		(8) HE0435-1223-EAST20	WFC3/UVIS, ACCUM, UVIS2		F275W		GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-1 (1)	1200 Secs			
										[==>631.0 Secs (Pattern 1, Split 1)]		[1]	
										[==>631.0 Secs (Pattern 1, Split 2)]			
										[==>631.0 Secs (Pattern 2, Split 1)]			
									[==>631.0 Secs (Pattern 2, Split 2)]				



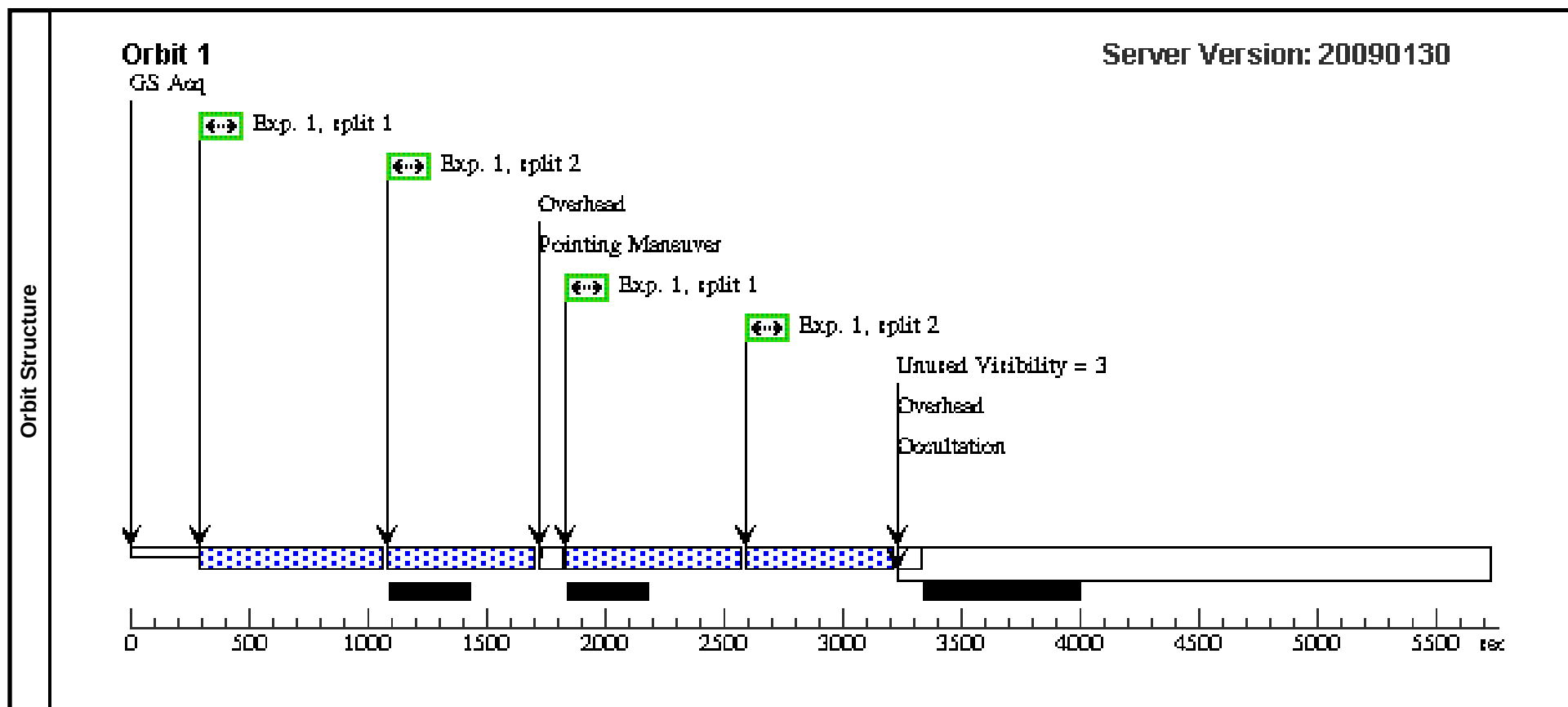
Proposal 11732 - Visit 06 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 06, implementation Wed Jul 01 02:54:03 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-FEB-2010:00:00:00 AND 15-MAR-2010:00:00:00									
Patterns	#	Primary Pattern			Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false				(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(7)	SDSS0924+0219-NORTH20	RA: 09 24 55.8700 (141.2327917d) Dec: +02 19 44.90 (2.32914d) Equinox: J2000				V=19.6+/-0.3		Reference Frame: HST	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(7) SDSS0924+0219-NORTH20	WFC3/UVIS, ACCUM, UVIS2	F275W			Pattern 1, Exps 1-1 (1)	1200 Secs [==>627.0 Secs (Pattern 1, Split 1)] [==>627.0 Secs (Pattern 1, Split 2)] [==>627.0 Secs (Pattern 2, Split 1)] [==>627.0 Secs (Pattern 2, Split 2)]	[1]



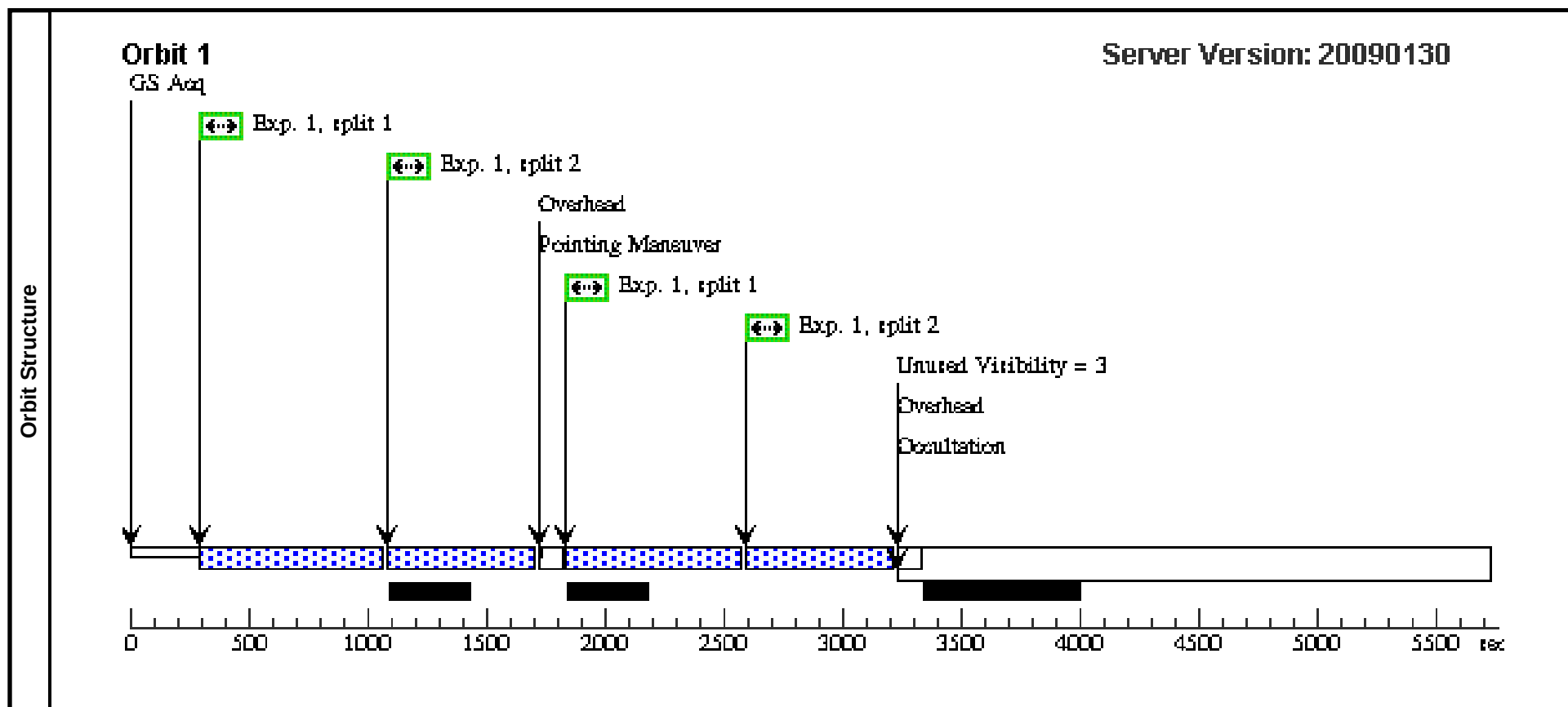
Proposal 11732 - Visit 07 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 07, implementation Wed Jul 01 02:54:03 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 06 BY 25 D TO 35 D									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(7)	SDSS0924+0219-NORTH20	RA: 09 24 55.8700 (141.2327917d) Dec: +02 19 44.90 (2.32914d) Equinox: J2000				V=19.6+/-0.3		Reference Frame: HST	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(7) SDSS0924+0219-NORTH20	WFC3/UVIS, ACCUM, UVIS2	F275W			Pattern 1, Exps 1-1 (1)	1200 Secs [=>627.0 Secs (Pattern 1, Split 1)] [=>627.0 Secs (Pattern 1, Split 2)] [=>627.0 Secs (Pattern 2, Split 1)] [=>627.0 Secs (Pattern 2, Split 2)]	[1]



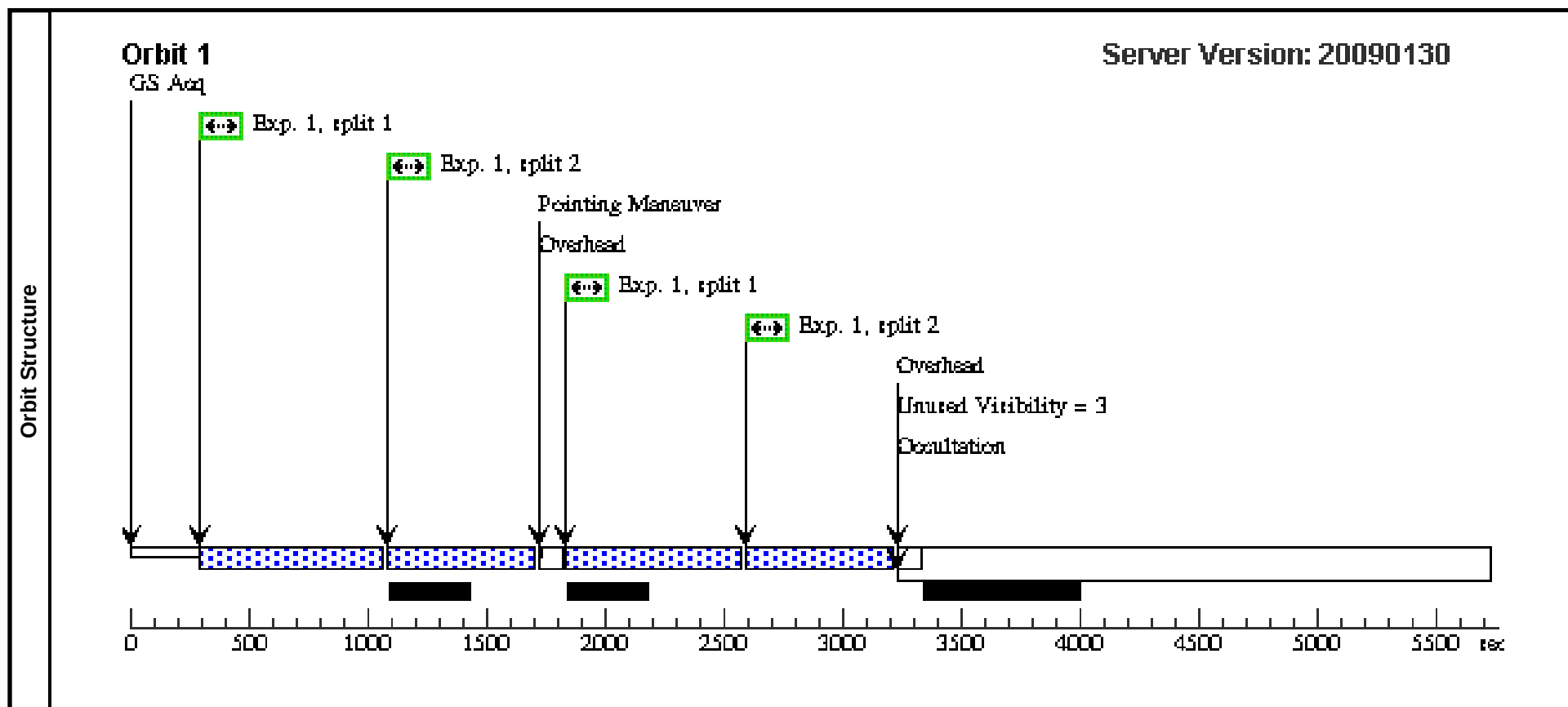
Proposal 11732 - Visit 08 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 08, implementation Wed Jul 01 02:54:03 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 06 BY 55 D TO 65 D									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(7)	SDSS0924+0219-NORTH20	RA: 09 24 55.8700 (141.2327917d) Dec: +02 19 44.90 (2.32914d) Equinox: J2000				V=19.6+/-0.3		Reference Frame: HST	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(7) SDSS0924+0219-NORTH20	WFC3/UVIS, ACCUM, UVIS2	F275W			Pattern 1, Exps 1-1 (1)	1200 Secs	
									[==>627.0 Secs (Pattern 1, Split 1)]	
									[==>627.0 Secs (Pattern 1, Split 2)]	
									[==>627.0 Secs (Pattern 2, Split 1)]	
									[==>627.0 Secs (Pattern 2, Split 2)]	[1]



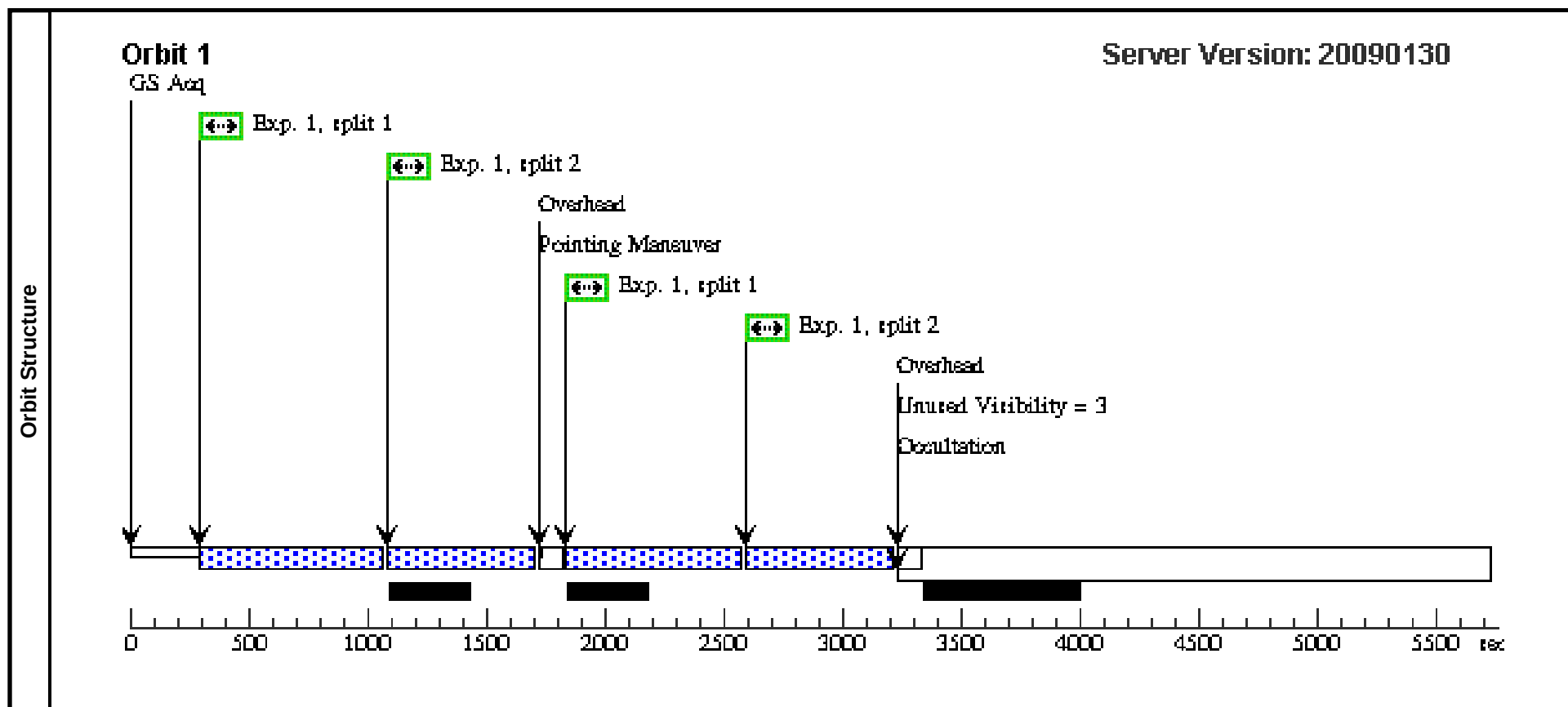
Proposal 11732 - Visit 09 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 09, implementation Wed Jul 01 02:54:04 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 06 BY 85 D TO 95 D									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(7)	SDSS0924+0219-NORTH20	RA: 09 24 55.8700 (141.2327917d) Dec: +02 19 44.90 (2.32914d) Equinox: J2000				V=19.6+/-0.3		Reference Frame: HST	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(7) SDSS0924+0219-NORTH20	WFC3/UVIS, ACCUM, UVIS2	F275W			Pattern 1, Exps 1-1 (1)	1200 Secs [==>627.0 Secs (Pattern 1, Split 1)] [==>627.0 Secs (Pattern 1, Split 2)] [==>627.0 Secs (Pattern 2, Split 1)] [==>627.0 Secs (Pattern 2, Split 2)]	[1]



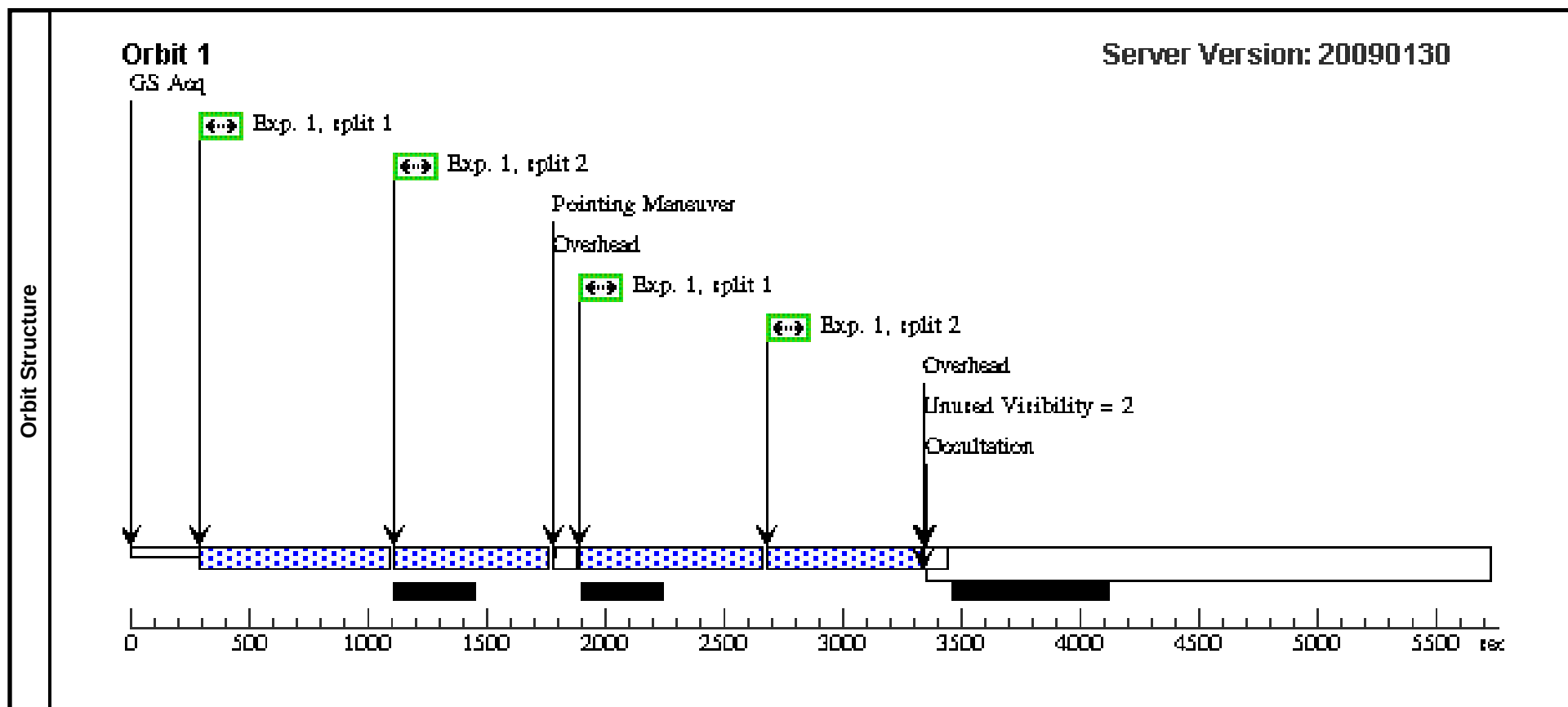
Proposal 11732 - Visit 10 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 10, implementation Wed Jul 01 02:54:04 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 06 BY 110 D TO 130 D									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(7)	SDSS0924+0219-NORTH20	RA: 09 24 55.8700 (141.2327917d) Dec: +02 19 44.90 (2.32914d) Equinox: J2000				V=19.6+/-0.3		Reference Frame: HST	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(7) SDSS0924+0219-NORTH20	WFC3/UVIS, ACCUM, UVIS2	F275W			Pattern 1, Exps 1-1 (1)	1200 Secs [==>627.0 Secs (Pattern 1, Split 1)] [==>627.0 Secs (Pattern 1, Split 2)] [==>627.0 Secs (Pattern 2, Split 1)] [==>627.0 Secs (Pattern 2, Split 2)]	[1]



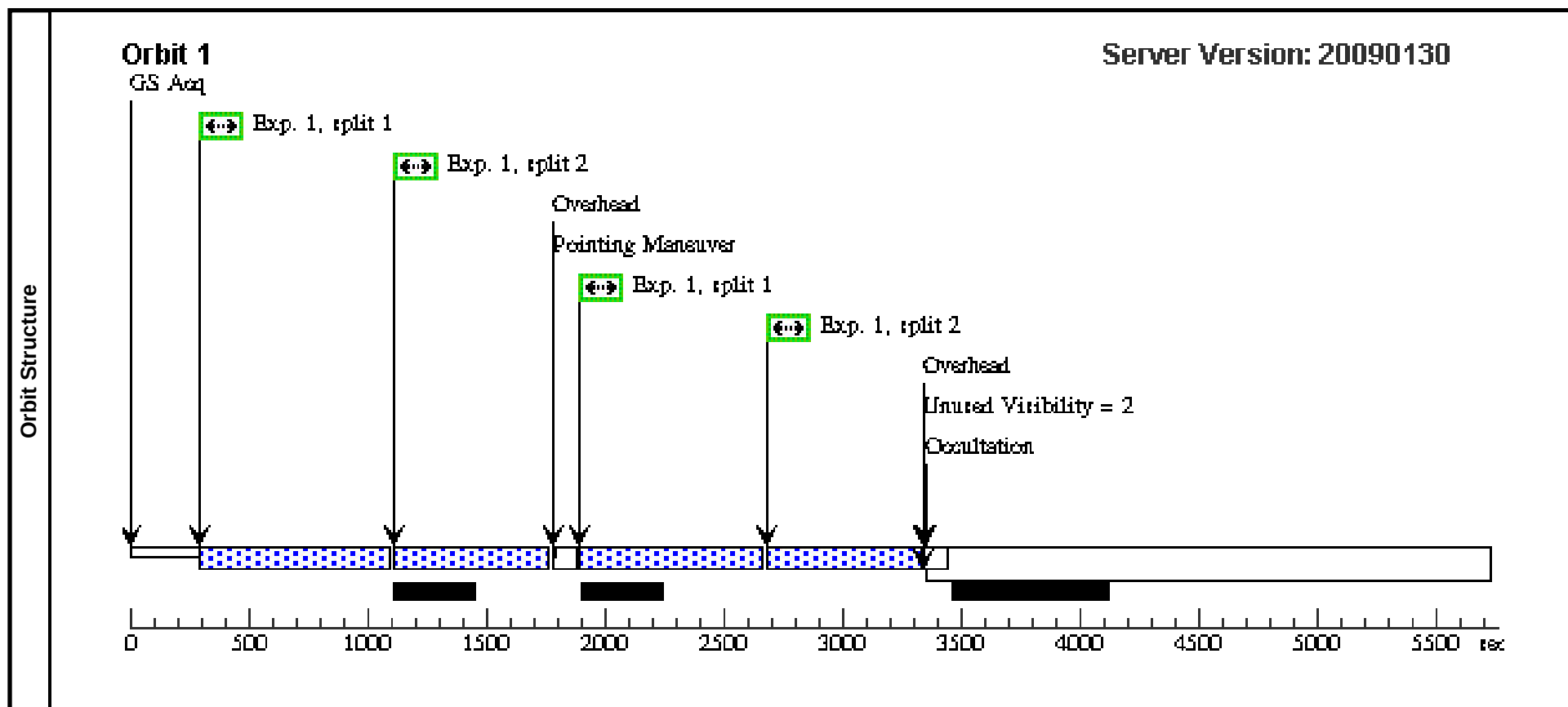
Proposal 11732 - Visit 11 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 11, implementation										Wed Jul 01 02:54:04 GMT 2009		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: BETWEEN 01-DEC-2009:00:00:00 AND 15-JAN-2010:00:00:00												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=					Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false					(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(10)	SDSS1004+4112-SOUTHWEST20		RA: 10 04 35.4700 (151.1477917d) Dec: +41 12 30.00 (41.20833d) Equinox: J2000				V=18.5+/-0.3		Reference Frame: HST			
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit	
	1		(10) SDSS1004+4112-SOUTHWEST20	WFC3/UVIS, ACCUM, UVIS2		F275W			Pattern 1, Exps 1-1 (1)	1200 Secs			
										[==>656.0 Secs (Pattern 1, Split 1)]		[1]	
										[==>656.0 Secs (Pattern 1, Split 2)]			
										[==>656.0 Secs (Pattern 2, Split 1)]			
									[==>656.0 Secs (Pattern 2, Split 2)]				



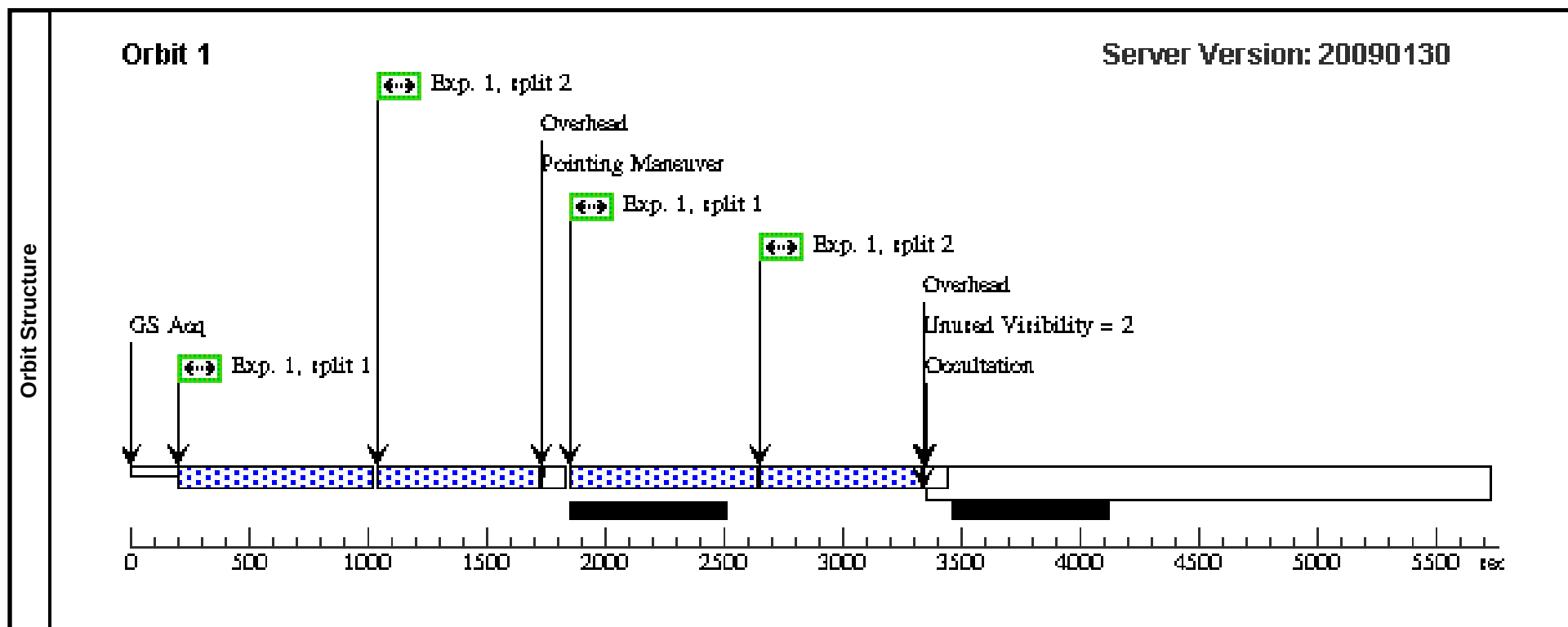
Proposal 11732 - Visit 12 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 12, implementation										Wed Jul 01 02:54:04 GMT 2009	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: BETWEEN 01-FEB-2010:00:00:00 AND 15-MAR-2010:00:00:00											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=									(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(10)	SDSS1004+4112-SOUTHWEST20		RA: 10 04 35.4700 (151.1477917d) Dec: +41 12 30.00 (41.20833d) Equinox: J2000				V=18.5+/-0.3		Reference Frame: HST		
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(10) SDSS1004+4112-SOUTHWEST20	WFC3/UVIS, ACCUM, UVIS2		F275W		GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-1 (1)	1200 Secs		
										[==>656.0 Secs (Pattern 1, Split 1)]		
										[==>656.0 Secs (Pattern 1, Split 2)]		
										[==>656.0 Secs (Pattern 2, Split 1)]		
										[==>656.0 Secs (Pattern 2, Split 2)]		[1]



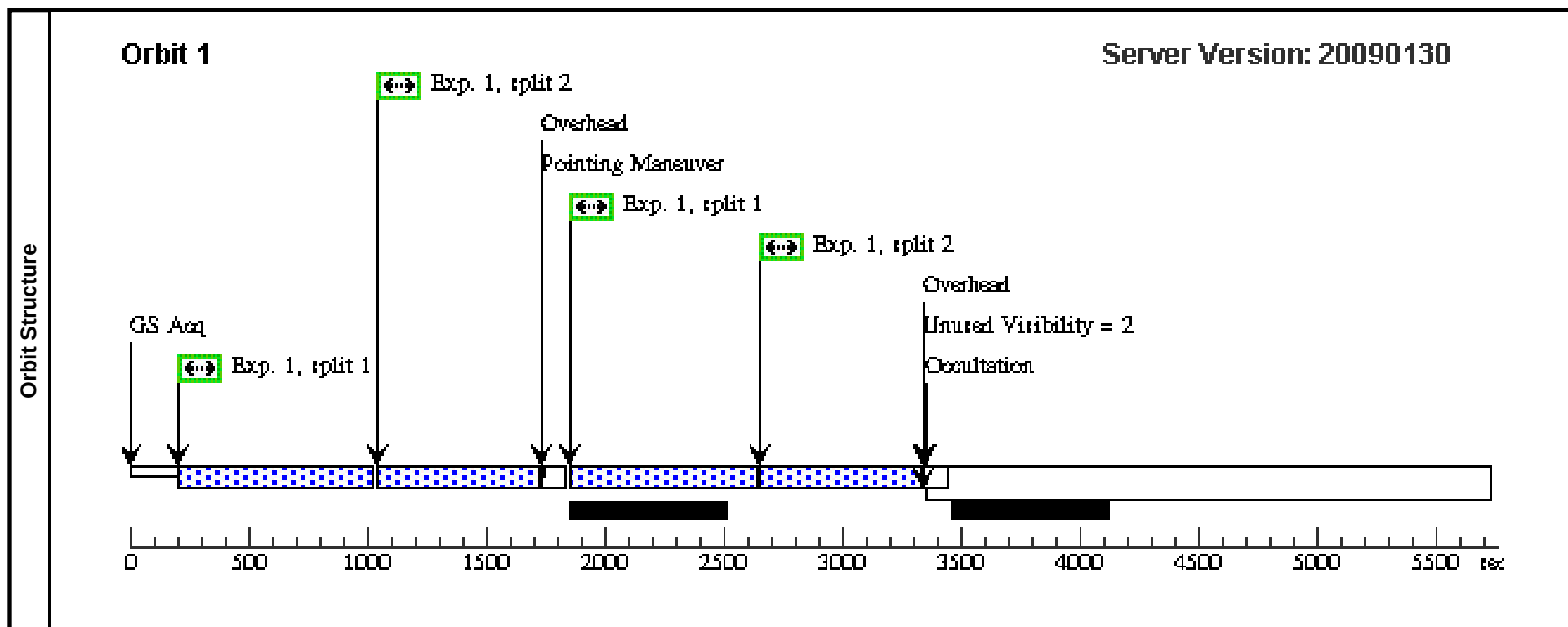
Proposal 11732 - Visit 13 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 13, implementation Wed Jul 01 02:54:05 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 11-APR-2010:00:00:00 AND 09-MAY-2010:00:00:00									
Patterns	#	Primary Pattern			Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false				(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(63)	SDSS1004+4112-NE20	RA: 10 04 35.9900 (151.1499583d) Dec: +41 12 58.40 (41.21622d) Equinox: J2000				V=18.5+/-0.3		Reference Frame: HST	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(63) SDSS1004+4112-NE20	WFC3/UVIS, ACCUM, UVIS2	F275W		GS ACQ SCENARIO ONEB1B3	Pattern 1, Exps 1-1 (1)	1200 Secs	
									[=>679.0 Secs (Pattern 1, Split 1)]	
									[=>679.0 Secs (Pattern 1, Split 2)]	
									[=>679.0 Secs (Pattern 2, Split 1)]	
									[=>679.0 Secs (Pattern 2, Split 2)]	[1]



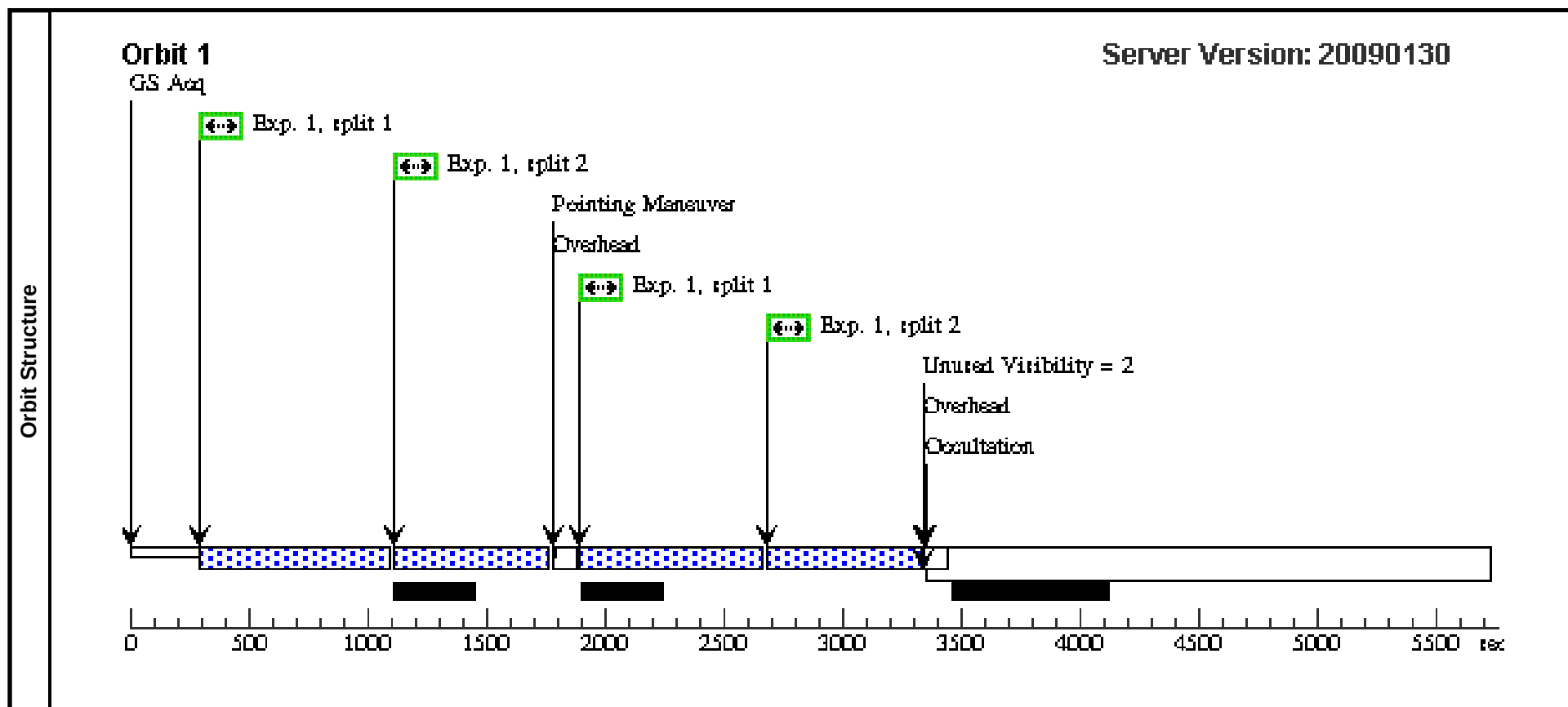
Proposal 11732 - Visit 14 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 14, implementation Wed Jul 01 02:54:05 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 05-JUN-2010:00:00:00 AND 05-JUL-2010:00:00:00									
Patterns	#	Primary Pattern			Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false				(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(3)	SDSS1004+4112	RA: 10 04 34.2200 (151.1425833d) Dec: +41 12 44.40 (41.21233d) Equinox: J2000				V=18.5+/-0.3		Reference Frame: HST	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) SDSS1004+4112	WFC3/UVIS, ACCUM, UVIS2	F275W		GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	1200 Secs [=>679.0 Secs (Pattern 1, Split 1)] [=>679.0 Secs (Pattern 1, Split 2)] [=>679.0 Secs (Pattern 2, Split 1)] [=>679.0 Secs (Pattern 2, Split 2)]	[1]



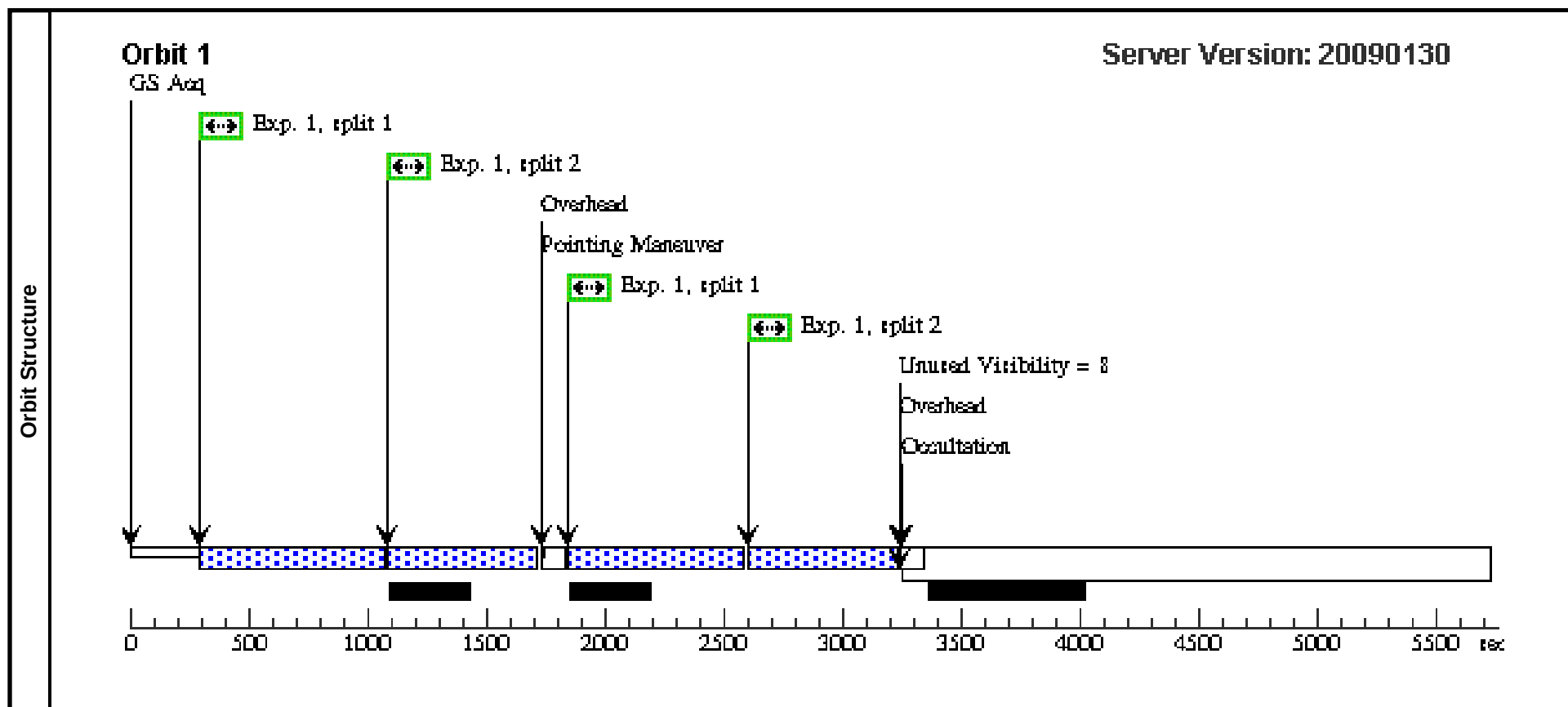
Proposal 11732 - Visit 15 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 15, implementation										Wed Jul 01 02:54:05 GMT 2009	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: BETWEEN 01-NOV-2009:00:00:00 AND 30-NOV-2009:00:00:00											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=					Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false					(1)
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(10)	SDSS1004+4112-SOUTHWEST20		RA: 10 04 35.4700 (151.1477917d) Dec: +41 12 30.00 (41.20833d) Equinox: J2000				V=18.5+/-0.3		Reference Frame: HST		
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(10) SDSS1004+4112-SOUTHWEST20	WFC3/UVIS, ACCUM, UVIS2		F275W		GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-1 (1)	1200 Secs		
										[==>656.0 Secs (Pattern 1, Split 1)]		
										[==>656.0 Secs (Pattern 1, Split 2)]		
										[==>656.0 Secs (Pattern 2, Split 1)]		
										[==>656.0 Secs (Pattern 2, Split 2)]		[1]



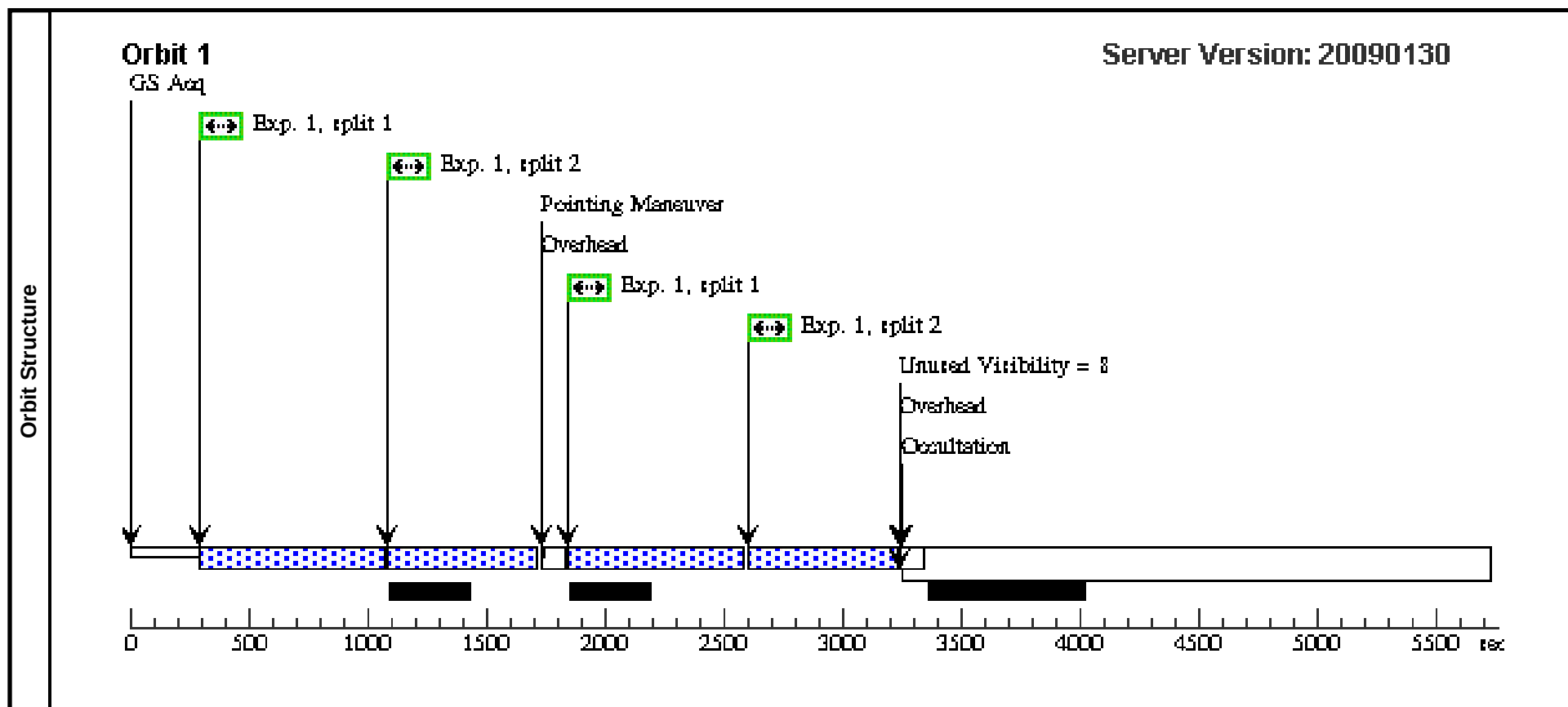
Proposal 11732 - Visit 16 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 16, implementation										Wed Jul 01 02:54:06 GMT 2009		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: BETWEEN 15-JAN-2010:00:00:00 AND 15-FEB-2010:00:00:00												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=					Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false					(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(4)	HE1104-1805		RA: 11 06 33.4500 (166.6393750d) Dec: -18 21 24.20 (-18.35672d) Equinox: J2000				V=16.4+/-0.3		Reference Frame: HST			
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit	
	1		(4) HE1104-1805	WFC3/UVIS, ACCUM, UVIS2		F275W			Pattern 1, Exps 1-1 (1)	1200 Secs			
										[==>631.0 Secs (Pattern 1, Split 1)]		[1]	
										[==>631.0 Secs (Pattern 1, Split 2)]			
										[==>631.0 Secs (Pattern 2, Split 1)]			
									[==>631.0 Secs (Pattern 2, Split 2)]				



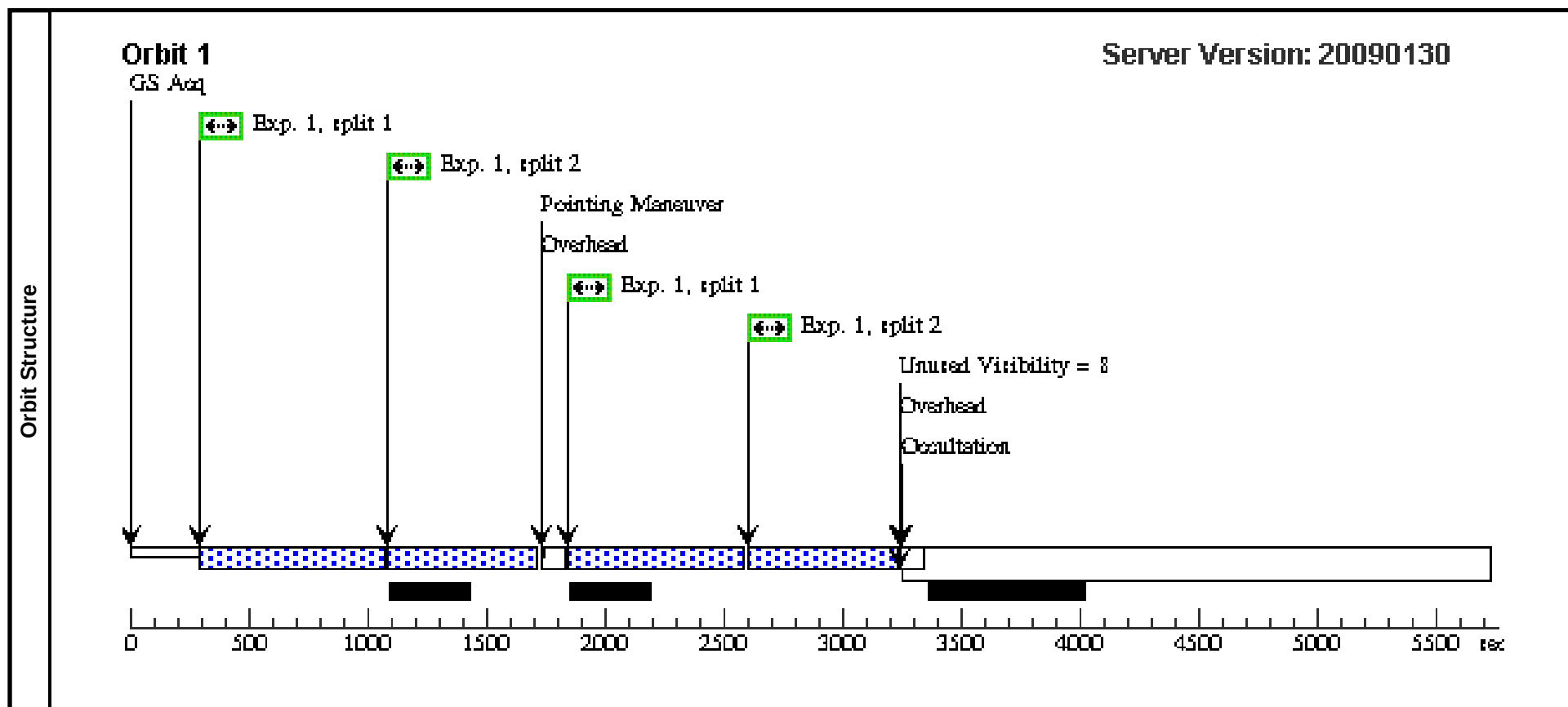
Proposal 11732 - Visit 17 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 17, implementation										Wed Jul 01 02:54:06 GMT 2009		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: BETWEEN 10-MAR-2010:00:00:00 AND 05-APR-2010:00:00:00												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(1)
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(4)	HE1104-1805		RA: 11 06 33.4500 (166.6393750d) Dec: -18 21 24.20 (-18.35672d) Equinox: J2000				V=16.4+/-0.3		Reference Frame: HST			
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit	
	1		(4) HE1104-1805	WFC3/UVIS, ACCUM, UVIS2		F275W			Pattern 1, Exps 1-1 (1)	1200 Secs			
										[==>631.0 Secs (Pattern 1, Split 1)]		[1]	
										[==>631.0 Secs (Pattern 1, Split 2)]			
										[==>631.0 Secs (Pattern 2, Split 1)]			
									[==>631.0 Secs (Pattern 2, Split 2)]				



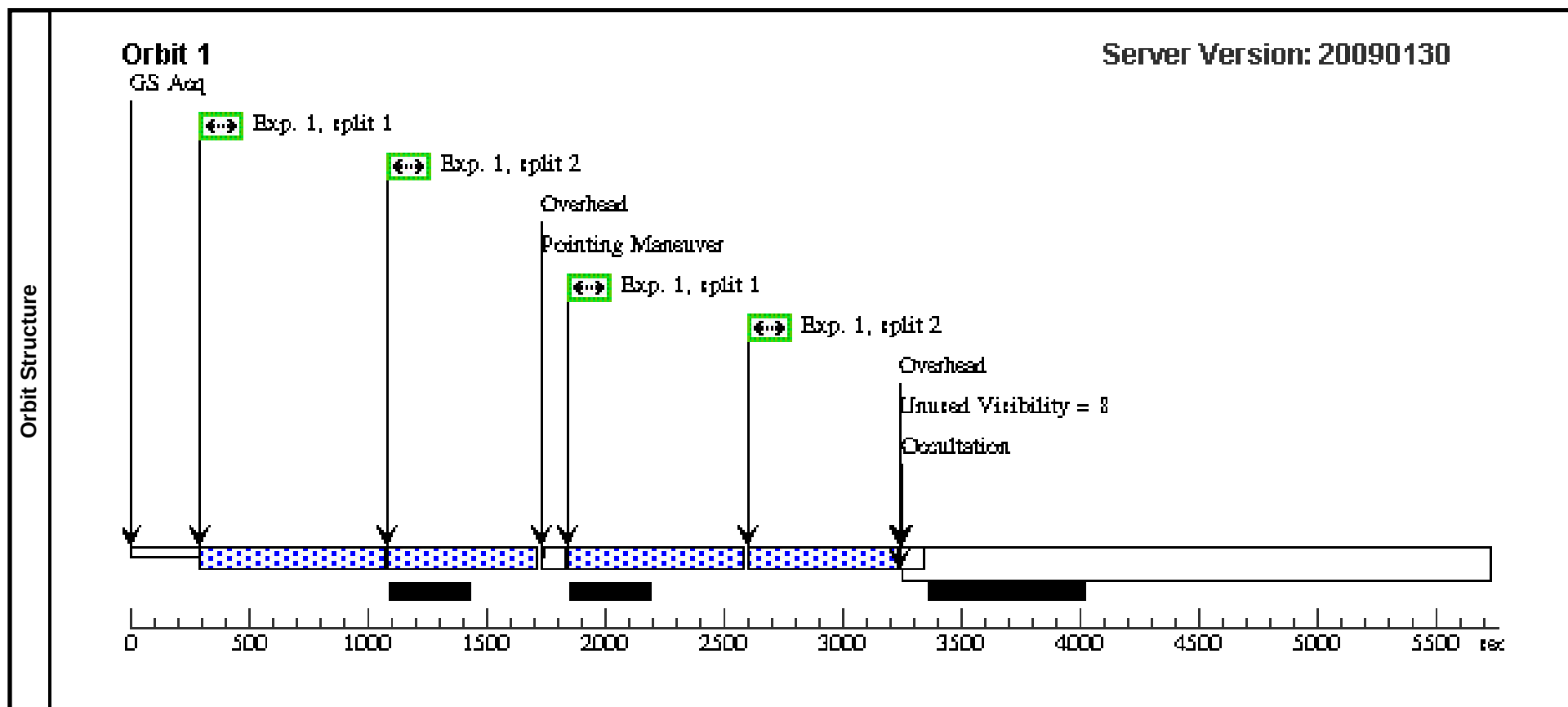
Proposal 11732 - Visit 18 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 18, implementation										Wed Jul 01 02:54:06 GMT 2009	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: BETWEEN 01-JUL-2010:00:00:00 AND 30-JUL-2010:00:00:00											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=					Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false					(1)
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(4)	HE1104-1805		RA: 11 06 33.4500 (166.6393750d) Dec: -18 21 24.20 (-18.35672d) Equinox: J2000				V=16.4+/-0.3		Reference Frame: HST		
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(4) HE1104-1805	WFC3/UVIS, ACCUM, UVIS2		F275W		GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-1 (1)	1200 Secs		
										[==>631.0 Secs (Pattern 1, Split 1)]		[1]
										[==>631.0 Secs (Pattern 1, Split 2)]		
										[==>631.0 Secs (Pattern 2, Split 1)]		
									[==>631.0 Secs (Pattern 2, Split 2)]			



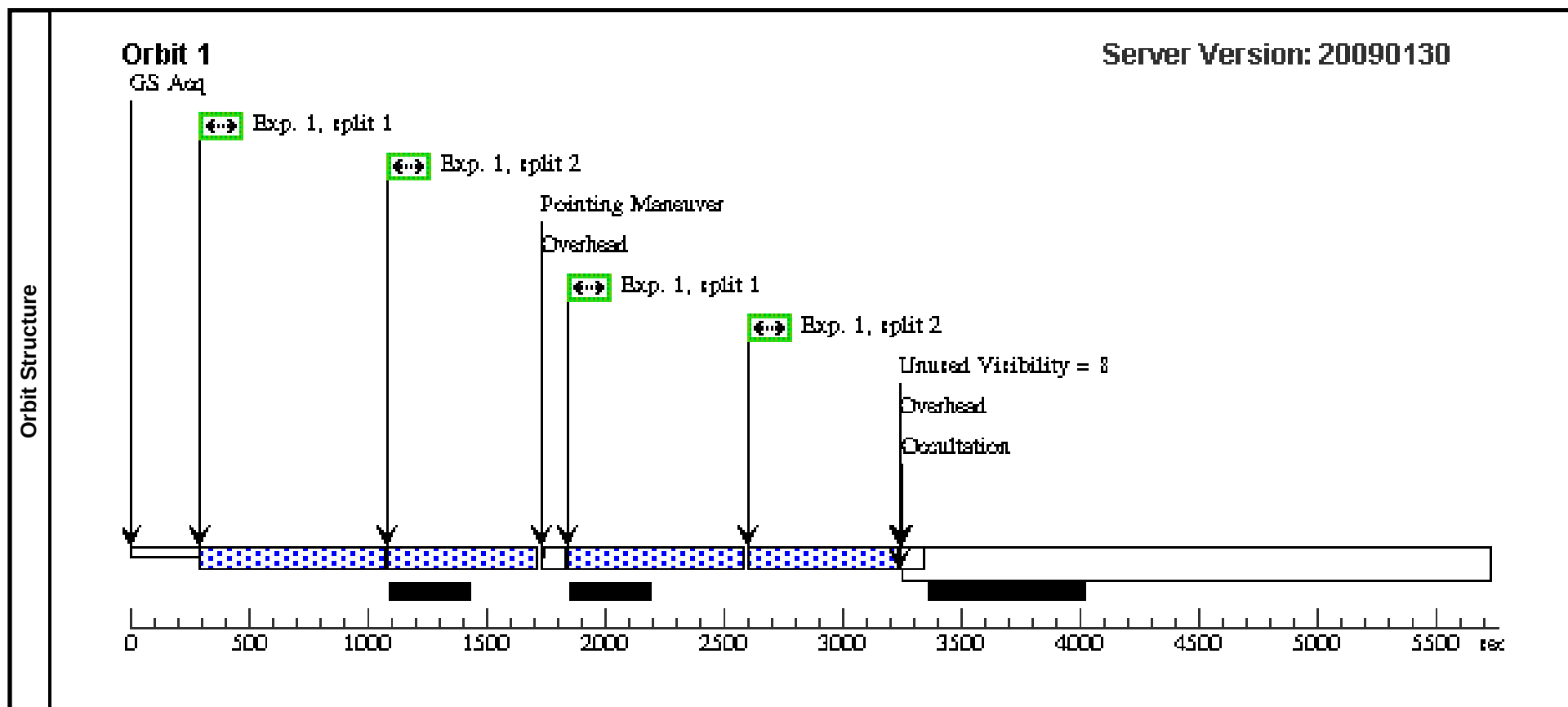
Proposal 11732 - Visit 19 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 19, implementation Wed Jul 01 02:54:07 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 05-MAY-2010:00:00:00 AND 05-JUN-2010:00:00:00									
Patterns	#	Primary Pattern			Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false				(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(4)	HE1104-1805	RA: 11 06 33.4500 (166.6393750d) Dec: -18 21 24.20 (-18.35672d) Equinox: J2000				V=16.4+/-0.3		Reference Frame: HST	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) HE1104-1805	WFC3/UVIS, ACCUM, UVIS2	F275W		GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-1 (1)	1200 Secs	
									[=>631.0 Secs (Pattern 1, Split 1)]	
									[=>631.0 Secs (Pattern 1, Split 2)]	
									[=>631.0 Secs (Pattern 2, Split 1)]	
									[=>631.0 Secs (Pattern 2, Split 2)]	[1]



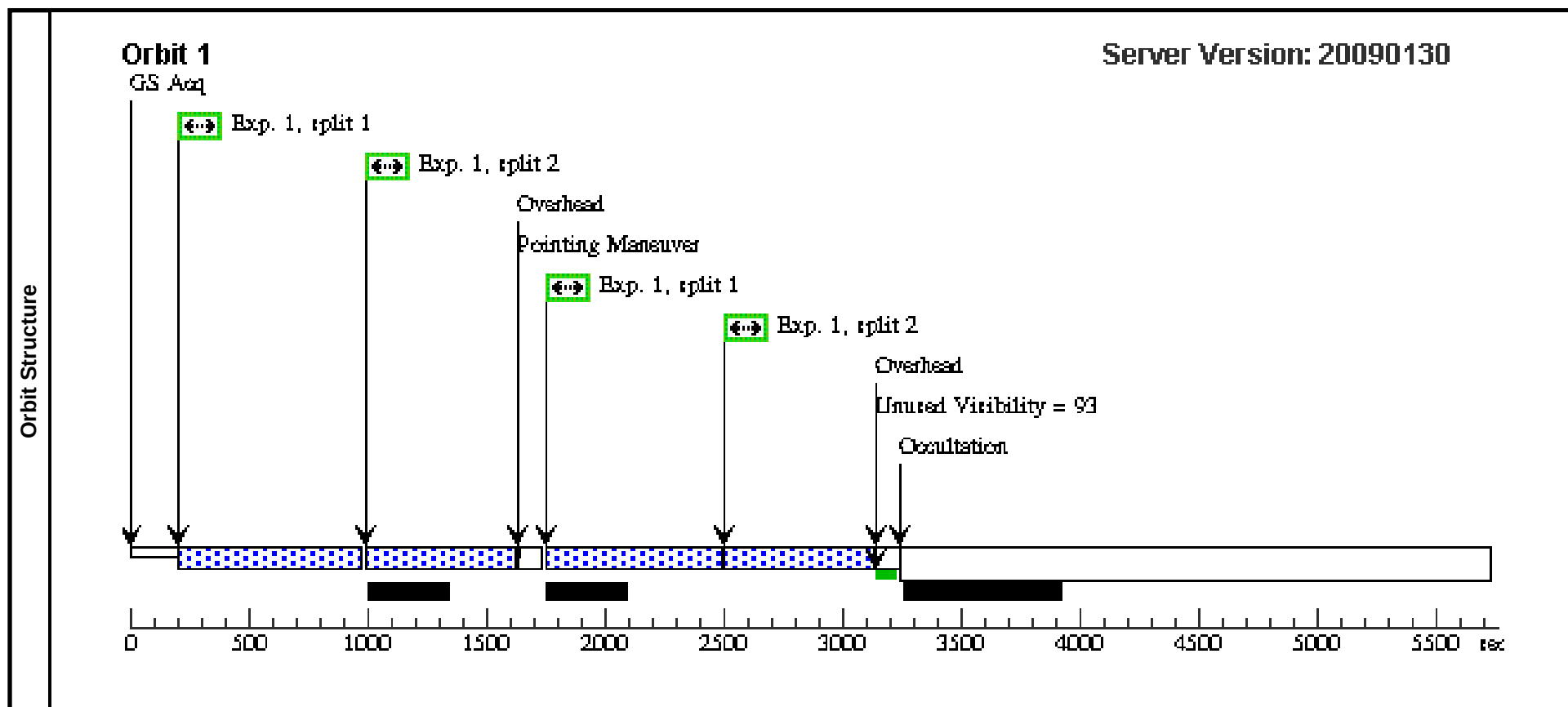
Proposal 11732 - Visit 20 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 20, implementation Wed Jul 01 02:54:07 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 15-NOV-2009:00:00:00 AND 15-DEC-2009:00:00:00									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(4)	HE1104-1805	RA: 11 06 33.4500 (166.6393750d) Dec: -18 21 24.20 (-18.35672d) Equinox: J2000				V=16.4+/-0.3		Reference Frame: HST	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) HE1104-1805	WFC3/UVIS, ACCUM, UVIS2	F275W			Pattern 1, Exps 1-1 (1)	1200 Secs	
									[=>631.0 Secs (Pattern 1, Split 1)]	
									[=>631.0 Secs (Pattern 1, Split 2)]	
									[=>631.0 Secs (Pattern 2, Split 1)]	
									[=>631.0 Secs (Pattern 2, Split 2)]	[1]



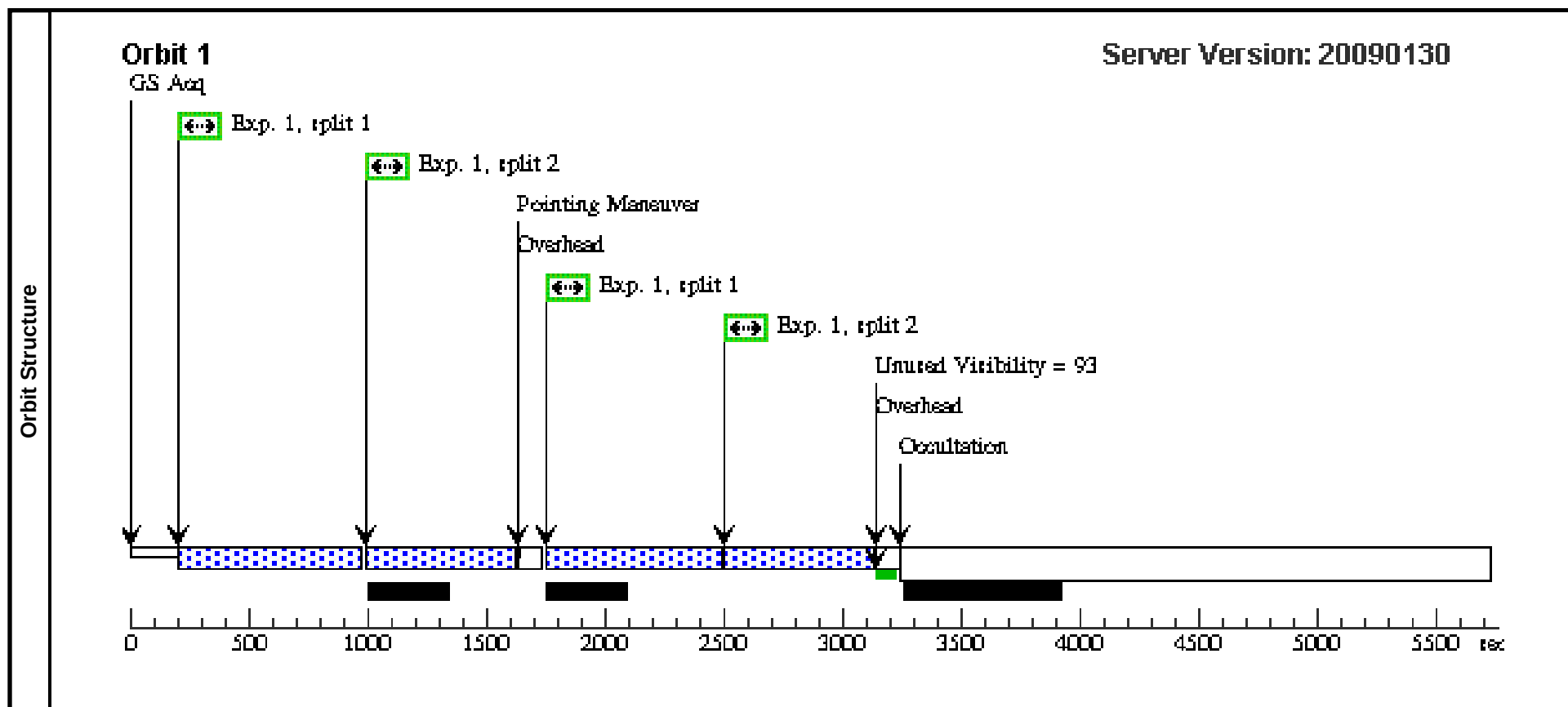
Proposal 11732 - Visit 21 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 21, implementation Wed Jul 01 02:54:07 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 15-DEC-2009:00:00:00 AND 15-JAN-2010:00:00:00									
Patterns	#	Primary Pattern			Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false				(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(9)	PG1115+080-EAST20	RA: 11 18 15.6500 (169.5652083d) Dec: +07 45 57.70 (7.76603d) Equinox: J2000				V=16.9+/-0.3		Reference Frame: HST	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(9) PG1115+080-EA ST20	WFC3/UVIS, ACCUM, UVIS1	F218W		GS ACQ SCENARI O ONEB1B3	Pattern 1, Exps 1-1 (1)	1200 Secs	
									[==>629.0 Secs (Pattern 1, Split 1)]	
									[==>629.0 Secs (Pattern 1, Split 2)]	
									[==>629.0 Secs (Pattern 2, Split 1)]	
									[==>629.0 Secs (Pattern 2, Split 2)]	[1]



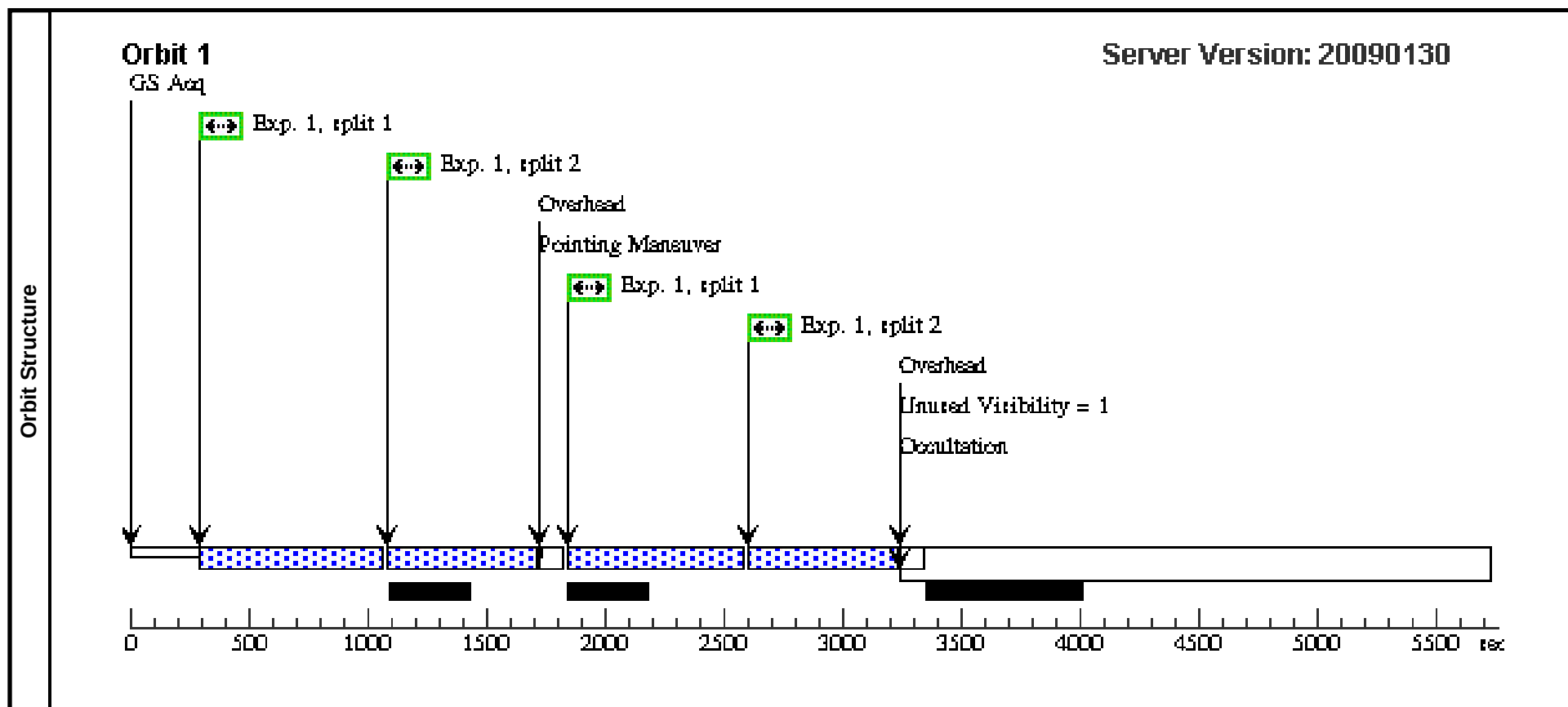
Proposal 11732 - Visit 22 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 22, implementation Wed Jul 01 02:54:07 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-NOV-2010:00:00:00 AND 15-DEC-2010:00:00:00									
Patterns	#	Primary Pattern			Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false				(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(9)	PG1115+080-EAST20	RA: 11 18 15.6500 (169.5652083d) Dec: +07 45 57.70 (7.76603d) Equinox: J2000				V=16.9+/-0.3		Reference Frame: HST	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(9) PG1115+080-EA ST20	WFC3/UVIS, ACCUM, UVIS1	F218W		GS ACQ SCENARI O ONEB1B3	Pattern 1, Exps 1-1 (1)	1200 Secs	
									[==>629.0 Secs (Pattern 1, Split 1)]	
									[==>629.0 Secs (Pattern 1, Split 2)]	
									[==>629.0 Secs (Pattern 2, Split 1)]	
									[==>629.0 Secs (Pattern 2, Split 2)]	[1]



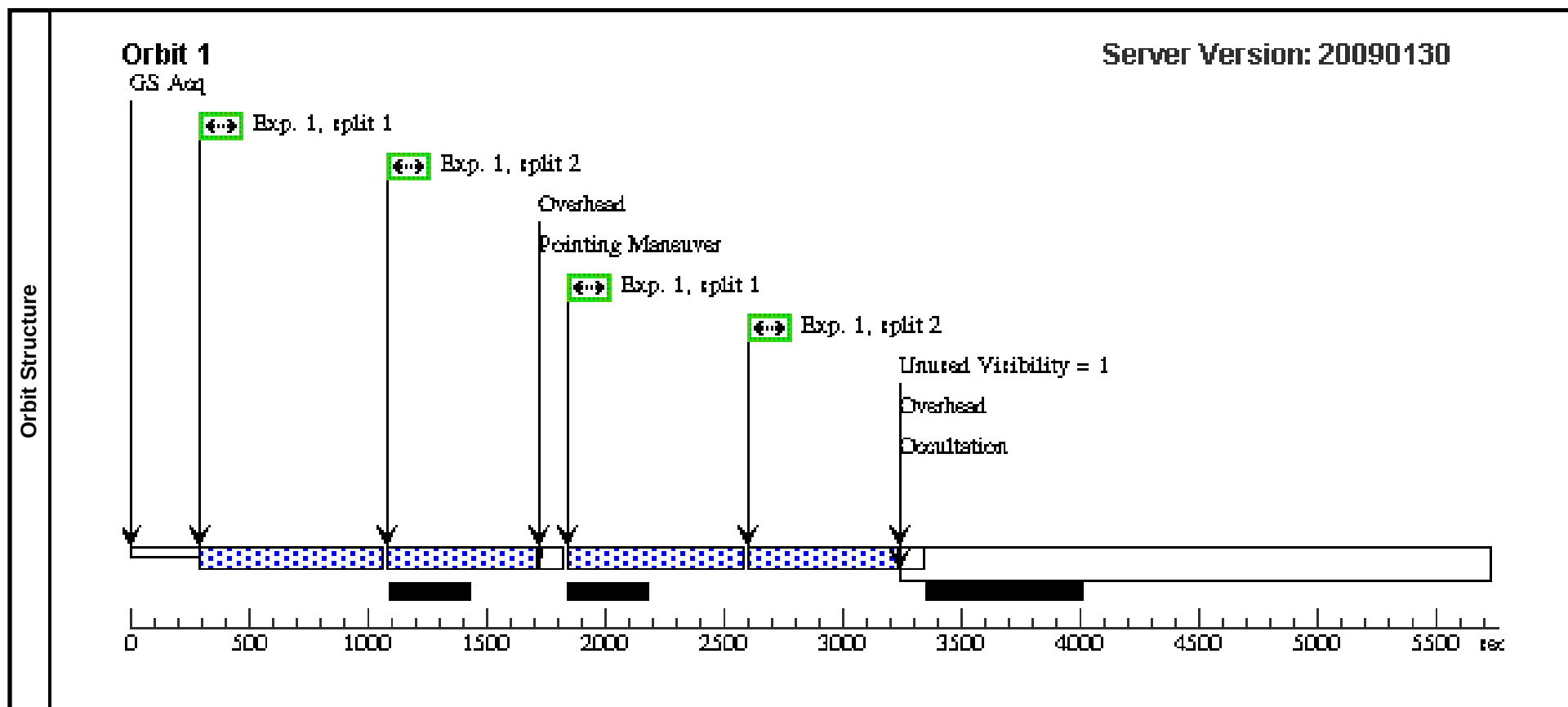
Proposal 11732 - Visit 23 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 23, implementation Wed Jul 01 02:54:08 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 25-MAR-2010:00:00:00 AND 15-APR-2010:00:00:00									
Patterns	#	Primary Pattern			Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false				(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(9)	PG1115+080-EAST20	RA: 11 18 15.6500 (169.5652083d) Dec: +07 45 57.70 (7.76603d) Equinox: J2000				V=16.9+/-0.3		Reference Frame: HST	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(9) PG1115+080-EA ST20	WFC3/UVIS, ACCUM, UVIS1	F218W		GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-1 (1)	1200 Secs [==>629.0 Secs (Pattern 1, Split 1)] [==>629.0 Secs (Pattern 1, Split 2)] [==>629.0 Secs (Pattern 2, Split 1)] [==>629.0 Secs (Pattern 2, Split 2)]	[1]



Proposal 11732 - Visit 24 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 24, implementation Wed Jul 01 02:54:08 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 30-JUN-2010:00:00:00 AND 20-JUL-2010:00:00:00									
Patterns	#	Primary Pattern			Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false				(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(9)	PG1115+080-EAST20	RA: 11 18 15.6500 (169.5652083d) Dec: +07 45 57.70 (7.76603d) Equinox: J2000				V=16.9+/-0.3		Reference Frame: HST	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(9) PG1115+080-EA ST20	WFC3/UVIS, ACCUM, UVIS1	F218W		GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-1 (1)	1200 Secs	
									[==>629.0 Secs (Pattern 1, Split 1)]	
									[==>629.0 Secs (Pattern 1, Split 2)]	
									[==>629.0 Secs (Pattern 2, Split 1)]	
									[==>629.0 Secs (Pattern 2, Split 2)]	[1]



Proposal 11732 - Visit 25 - The Temperature Profiles of Quasar Accretion Disks

Visit	Proposal 11732, Visit 25, implementation										Wed Jul 01 02:54:08 GMT 2009	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: BETWEEN 01-NOV-2009:00:00:00 AND 30-NOV-2009:00:00:00											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=					Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false					(1)
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(9)	PG1115+080-EAST20		RA: 11 18 15.6500 (169.5652083d) Dec: +07 45 57.70 (7.76603d) Equinox: J2000				V=16.9+/-0.3		Reference Frame: HST		
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(9) PG1115+080-EA ST20	WFC3/UVIS, ACCUM, UVIS2		F218W		GS ACQ SCENARIO SINGLE	Pattern 1, Exps 1-1 (1)	1200 Secs		
										[==>652.0 Secs (Pattern 1, Split 1)]		[1]
										[==>652.0 Secs (Pattern 1, Split 2)]		
										[==>652.0 Secs (Pattern 2, Split 1)]		
									[==>652.0 Secs (Pattern 2, Split 2)]			

