



11982 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Survey of Far-UV-Bright Quasars

Cycle: 16, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) SDSS1026+3531	ACS/SBC	2	30-Jan-2009 21:10:15.0	yes
02	(2) SDSS1042+5129	ACS/SBC	2	30-Jan-2009 21:10:24.0	yes
03	(3) SDSS1047+3250	ACS/SBC	2	30-Jan-2009 21:10:30.0	yes
04	(4) Q1051+5728	ACS/SBC	2	30-Jan-2009 21:10:38.0	yes
05	(5) SDSS1058+1101	ACS/SBC	2	30-Jan-2009 21:10:44.0	yes
06	(6) SDSS1143+2023	ACS/SBC	2	30-Jan-2009 21:10:50.0	yes

Proposal 11982 (STScI Edit Number: 1, Created: Friday, January 30, 2009 9:14:03 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	(7) SDSS1147+3017	ACS/SBC	2	30-Jan-2009 21:10:56.0	yes
08	(8) SDSS1206+0021	ACS/SBC	2	30-Jan-2009 21:11:02.0	yes
09	(9) SDSS1210+4426	ACS/SBC	2	30-Jan-2009 21:11:10.0	yes
10	(10) SDSS1219+1942	ACS/SBC	2	30-Jan-2009 21:11:16.0	yes
11	(11) SDSS1226+1037	ACS/SBC	2	30-Jan-2009 21:11:21.0	yes
12	(12) SDSS1227+1655	ACS/SBC	2	30-Jan-2009 21:11:27.0	yes
13	(13) SDSS1243+5305	ACS/SBC	2	30-Jan-2009 21:11:32.0	yes
14	(14) SDSS1246+6440	ACS/SBC	2	30-Jan-2009 21:11:40.0	yes
15	(15) SDSS1253+6817	ACS/SBC	2	30-Jan-2009 21:11:45.0	yes
16	(16) SDSS1259+6212	ACS/SBC	2	30-Jan-2009 21:11:50.0	yes
17	(17) SDSS1315+4856	ACS/SBC	2	30-Jan-2009 21:11:55.0	yes
18	(18) SDSS1316+1100	ACS/SBC	2	30-Jan-2009 21:12:00.0	yes
19	(19) SDSS1319+5202	ACS/SBC	2	30-Jan-2009 21:12:07.0	yes
20	(20) SDSS1330+2613	ACS/SBC	2	30-Jan-2009 21:12:12.0	yes
21	(21) SDSS1330+2813	ACS/SBC	2	30-Jan-2009 21:12:18.0	yes
22	(22) SDSS1334+5213	ACS/SBC	2	30-Jan-2009 21:12:22.0	yes
23	(23) SDSS1339+0703	ACS/SBC	2	30-Jan-2009 21:12:28.0	yes
24	(24) SDSS1341+0756	ACS/SBC	2	30-Jan-2009 21:12:35.0	yes
25	(25) SDSS1352+1251	ACS/SBC	2	30-Jan-2009 21:12:40.0	yes
26	(26) Q1401+0248	ACS/SBC	2	30-Jan-2009 21:12:45.0	yes
27	(27) SDSS1423+1303	ACS/SBC	2	30-Jan-2009 21:12:50.0	yes
28	(28) SDSS1427+3308	ACS/SBC	2	30-Jan-2009 21:12:55.0	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	(29) SDSS1444+1055	ACS/SBC	2	30-Jan-2009 21:13:02.0	yes
30	(30) SDSS1445+0958	ACS/SBC	2	30-Jan-2009 21:13:06.0	yes
31	(31) SDSS1446+4343	ACS/SBC	2	30-Jan-2009 21:13:11.0	yes
32	(32) SDSS1454+3741	ACS/SBC	2	30-Jan-2009 21:13:16.0	yes
33	(33) SDSS1508+1654	ACS/SBC	2	30-Jan-2009 21:13:21.0	yes
34	(34) SDSS1536+1437	ACS/SBC	2	30-Jan-2009 21:13:28.0	yes
35	(35) SDSS1539+2850	ACS/SBC	2	30-Jan-2009 21:13:33.0	yes
36	(36) SDSS1541+3959	ACS/SBC	2	30-Jan-2009 21:13:38.0	yes
37	(37) SDSS1555+3849	ACS/SBC	2	30-Jan-2009 21:13:42.0	yes
38	(38) SDSS1614+4859	ACS/SBC	2	30-Jan-2009 21:13:47.0	yes
39	(39) Q1943-1502	ACS/SBC	2	30-Jan-2009 21:13:54.0	yes
40	(40) Q2158-3030	ACS/SBC	2	30-Jan-2009 21:13:59.0	yes

80 Total Orbits Used

ABSTRACT

The reionization of IGM helium is thought to have occurred at redshifts of $z=3$ to 4. Detailed studies of HeII Lyman-alpha absorption toward a handful of QSOs at $2.7 < z < 3.3$ demonstrated the high potential of such IGM probes, but the small sample size and redshift range limit confidence in cosmological inferences. The requisite unobscured sightlines to high- z are extremely rare, but we've cross-correlated 10,000 $z > 2.8$ SDSS DR7 (and other) quasars with GALEX GR4 UV sources to obtain 550 new, high confidence, sightlines potentially useful for HST HeII studies; and in cycle 15-16 trials we demonstrated the efficacy of our SDSS/GALEX selection approach identifying 9 new HeII quasars at unprecedented 67% efficiency. We propose the first far-UV-bright HeII quasar survey that is both large in scale and also efficient, via 2-orbit reconnaissance ACS/SBC prism spectra toward a highly select subset of 40 new SDSS/GALEX quasars at $3.1 < z < 5.1$. These will provide a community resource list that includes 5 far-UV-bright (restframe) HeII sightlines in each of 8 redshift bins spanning $3.1 < z < 3.9$ (and perhaps several objects at $z > 4$), enabling superb post-SM4

follow-up spectra with COS or STIS. But simultaneously and independent of any SM4 uncertainties, we will hereby directly obtain 10-orbit UV spectral stacks from the 5 HeII quasars in each of the 8 redshift bins to trace the reionization history of IGM helium over at least $3.1 < z < 3.9$. These spectral stacks will average over cosmic variance and individual object pathology. Our new high-yield HeII sightline sample and spectral stacks, covering a large redshift range, will allow confident conclusions about the spectrum and evolution of the ionizing background, the evolution of HeII opacity, the density of IGM baryons, and the epoch of helium reionization.

OBSERVING DESCRIPTION

40 quasars at $z > 3.1$ selected from SDSS, VCV, and GALEX will be observed (2 orbits each) using ACS/SBC PR130L to spectroscopically explore and confirm detected GALEX broadband UV flux detection down to the HeII Lyman-alpha break. Two dither positions are used, with direct images at each to obtain wavelength calibration for the prism exposures. The last prism exposure in each other may be adjusted in length to fill the orbit. (Alternate targets may be available if some included here are at poor positions for Cycle 16 Supplemental observations).

ADDITIONAL COMMENTS

UV OVERLIGHT SAFETY FOR SBC: Quality ultraviolet overlight safety data information is available based on GALEX UV broadband imaging photometry for each target/field in this program. (5-band SDSS imaging photometry is also available in the optical for most targets/fields, though of course the optical is not as good as the GALEX images for directly confirming UV overlight safely). We have thus examined the GALEX catalogs, and also visually inspected the GALEX images by eye, for each quasar/field to help ensure overlight safety. The direct F150LP ultraviolet images needed for wavelength calibration are the most sensitive in this program, and are the driving concern for our SBC overlight considerations; the prism science spectral exposures with PR130L, of course, have far lower count rates than the direct SBC images. For program-wide overlight safety considerations, we start by very conservatively assuming a maximum bright safety limit in the SBC of < 20 counts/sec/pixel through F150LP; note that this conservatively is already 2.5X below the standard 50 counts/s/pixel SBC limit to allow for unusual variable sources. We use the ETC, adopting a power-law (e.g. quasar) spectrum of UV slope 0.5, and convert this SBC count rate limit into equivalent GALEX safe flux limits of $< 3.7 \times 10^{-15}$ erg/s/cm²/Å in the NUV and $< 6.2 \times 10^{-15}$ erg/s/cm²/Å in the FUV; the latter correspond to AB magnitude limits through F150LP of $m(\text{NUV}) > 16.9$ and $m(\text{FUV}) > 17.2$ in order to ensure SBC/F150LP count rates of < 20 counts/sec/pixel.

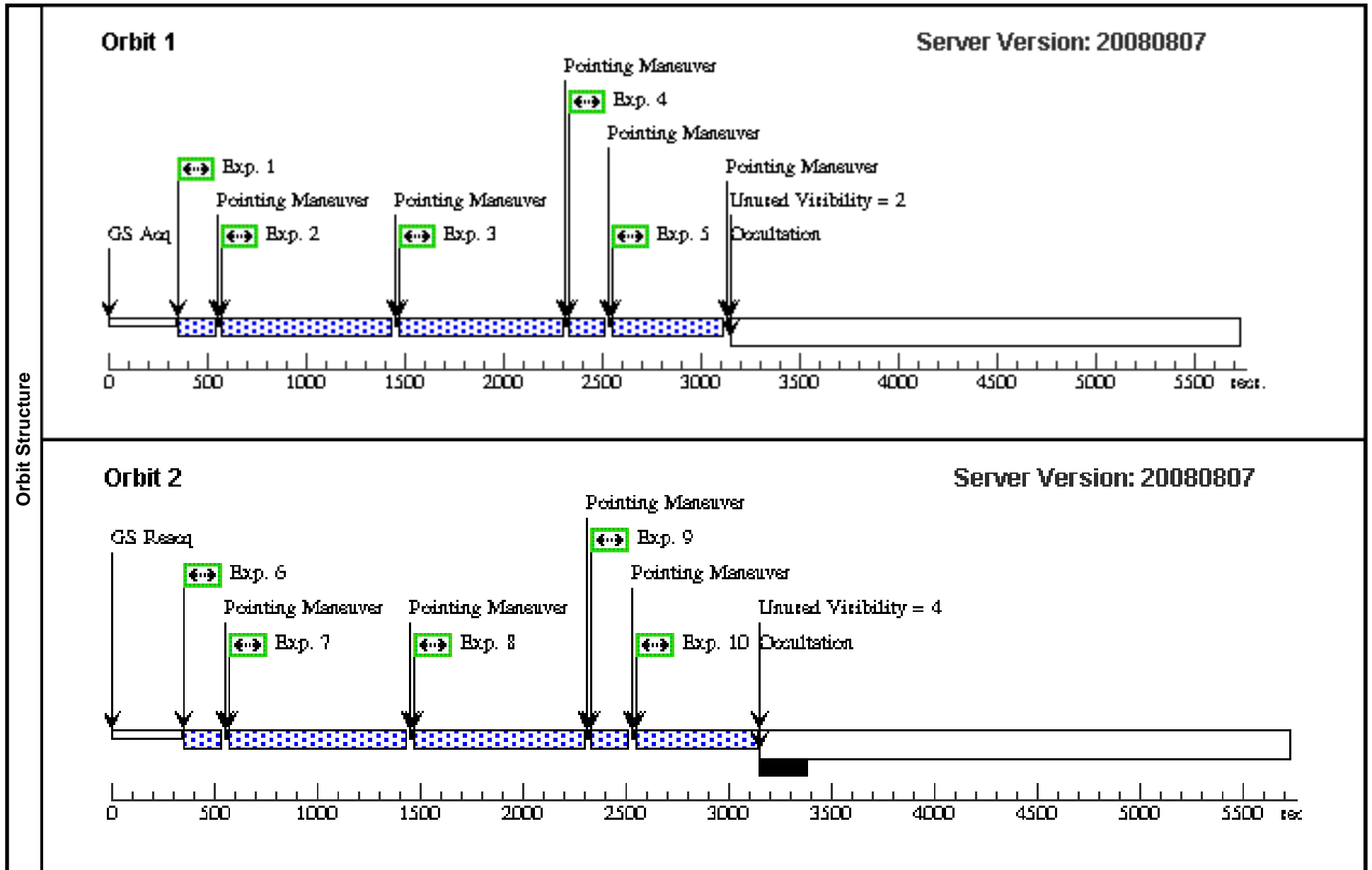
For direct comparison, we report in the comments for each target in this program both: (1) the quasar/target GALEX magnitudes in both FUV and NUV bands (a GALEX magnitude entry of 'not detected' denotes a GALEX non-detection, but there is GALEX data in each GALEX filter in each case); and, (2) the brightest UV sources in both FUV and NUV GALEX images within 35" of the quasar/target to ensure overlight safety from all other individual UV sources in the SBC FOV. In summary for the entire program, the very brightest NUV GALEX source in all 40 fields around all 40 targets is $m(\text{NUV})=19.35$, and the very brightest FUV GALEX source in all 40 fields around all 40 targets is $m(\text{FUV})=19.59$. Thus, the very brightest GALEX source in all 40 fields is conservatively 2.4 mags, or nearly an order of magnitude, fainter than the above already conservative <20 counts/sec/pixel bright safety limit for SBC/F150LP (for a highly variable, quasar).

As a final similar double-check we used the GALEX images for each field to ensure that there are no plausible violations (by multiple orders of magnitude) of the global SBC 80,000 cts/sec level in the entire SBC field. We added up the GALEX NUV and FUV fluxes of all detected GALEX sources in each field for all 40 targets. Even in the brightest such field considered from this perspective, the predicted total SBC/F150LP global field count rate from GALEX sources (using the ETC and input spectrum as above) is <20 cts/sec globally, considering both GALEX NUV and FUV data.

Proposal 11982 - Visit 01 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:04 GMT 2009

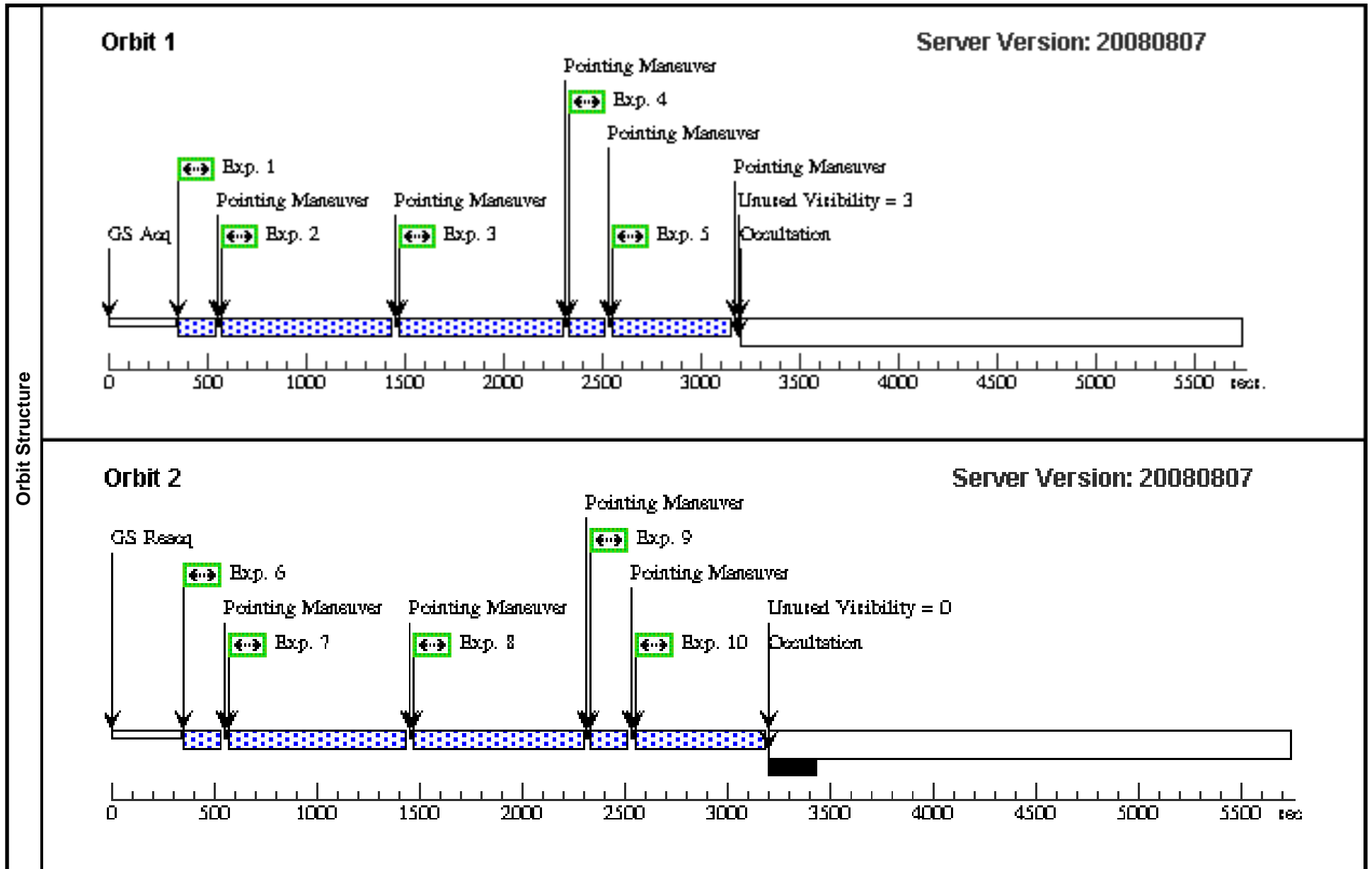
Visit		Proposal 11982, Visit 01, implementation									
Visit		Diagnostic Status: No Diagnostics									
		Scientific Instruments: ACS/SBC Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(1)	SDSS1026+3531	RA: 10 26 46.0300 (156.6917917d) Dec: +35 31 45.42 (35.52928d) Equinox: J2000	Redshift: 3.65	V=18.6 GALEX m(NUV)=22.06, m(FUV)=not detected; SDSS u= 23.80, g=19.41, r=18.56, i=18.61, z=18.53	Reference Frame: ICRS					
<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=22.38; m(NUV)=22.02.</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(1) SDSS1026+3531	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[1]	
	2		(1) SDSS1026+3531	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[1]	
	3		(1) SDSS1026+3531	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs [==>]	[1]	
	4		(1) SDSS1026+3531	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs [==>]	[1]	
	5		(1) SDSS1026+3531	ACS/SBC, ACCUM, SBC	PR130L				500 Secs [==>]	[1]	
	<i>Comments: exposure time may be adjusted</i>										
	6		(1) SDSS1026+3531	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[2]	
	7		(1) SDSS1026+3531	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[2]	
	8		(1) SDSS1026+3531	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs [==>]	[2]	
9		(1) SDSS1026+3531	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs [==>]	[2]		
10		(1) SDSS1026+3531	ACS/SBC, ACCUM, SBC	PR130L				525 Secs [==>]	[2]		
<i>Comments: exposure time may be extended</i>											



Proposal 11982 - Visit 02 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:05 GMT 2009

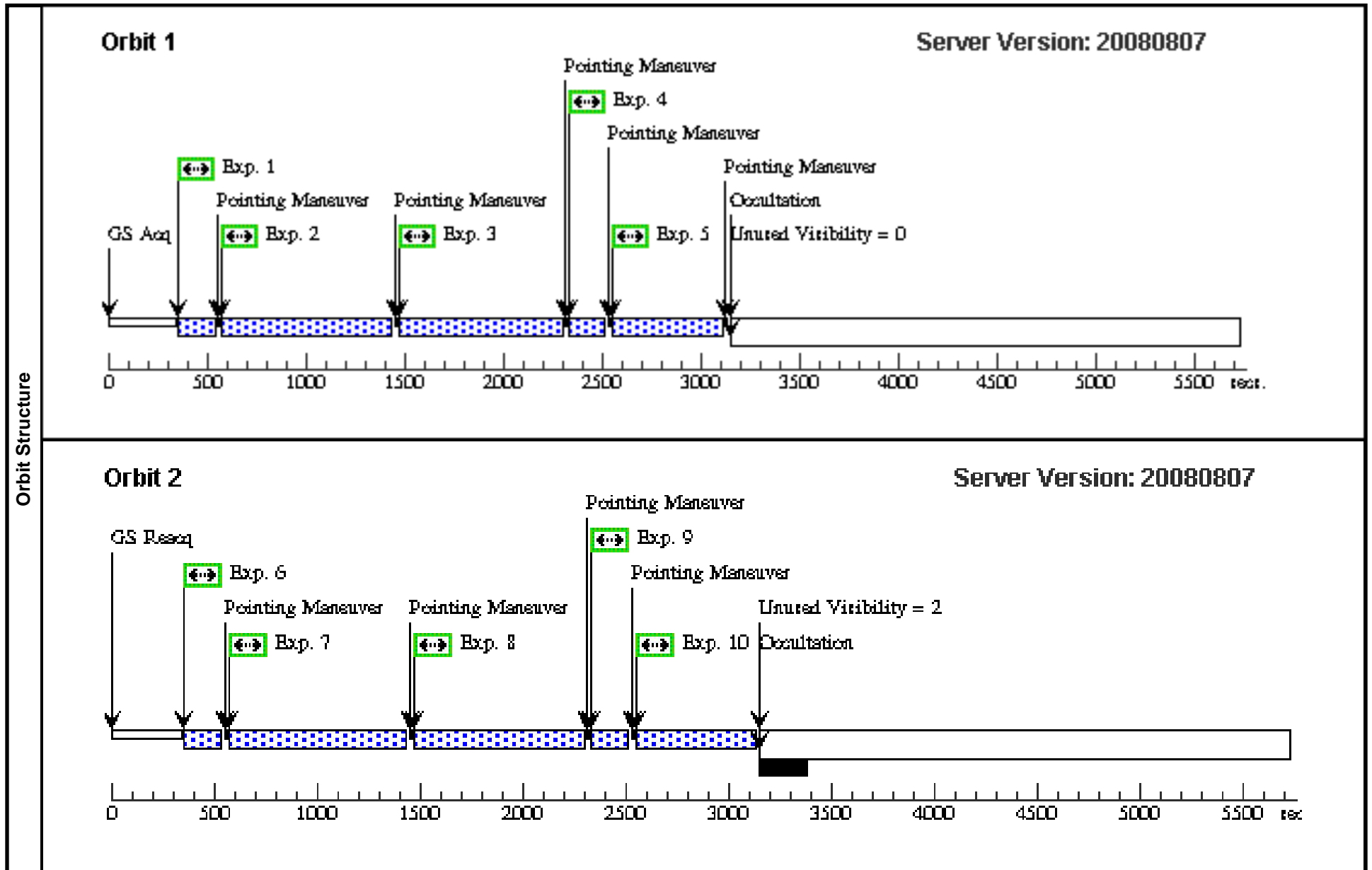
Visit		Proposal 11982, Visit 02, implementation									
		Diagnostic Status: No Diagnostics									
		Scientific Instruments: ACS/SBC									
		Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(2)	SDSS1042+5129	RA: 10 42 55.9680 (160.7332000d) Dec: +51 29 36.30 (51.49342d) Equinox: J2000	Redshift: 3.38	V=18.7 GALEX m(FUV)=22.00, m(NUV)=not detected: SDSS u= 21.38, g=19.08, r=18.68, i=18.62, z=18.48	Reference Frame: ICRS					
<i>Comments: brightest of GALEX sources within 35 arcsec is quasar target itself; m(FUV)=22.00; m(NUV)=not detected</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(2) SDSS1042+5129	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[1]	
	2		(2) SDSS1042+5129	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[1]	
	3		(2) SDSS1042+5129	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs [==>]	[1]	
	4		(2) SDSS1042+5129	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs [==>]	[1]	
	5		(2) SDSS1042+5129	ACS/SBC, ACCUM, SBC	PR130L				540 Secs [==>]	[1]	
	<i>Comments: exposure time may be adjusted</i>										
	6		(2) SDSS1042+5129	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[2]	
	7		(2) SDSS1042+5129	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[2]	
	8		(2) SDSS1042+5129	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs [==>]	[2]	
9		(2) SDSS1042+5129	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs [==>]	[2]		
10		(2) SDSS1042+5129	ACS/SBC, ACCUM, SBC	PR130L				570 Secs [==>]	[2]		
<i>Comments: exposure time may be extended</i>											



Proposal 11982 - Visit 03 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:06 GMT 2009

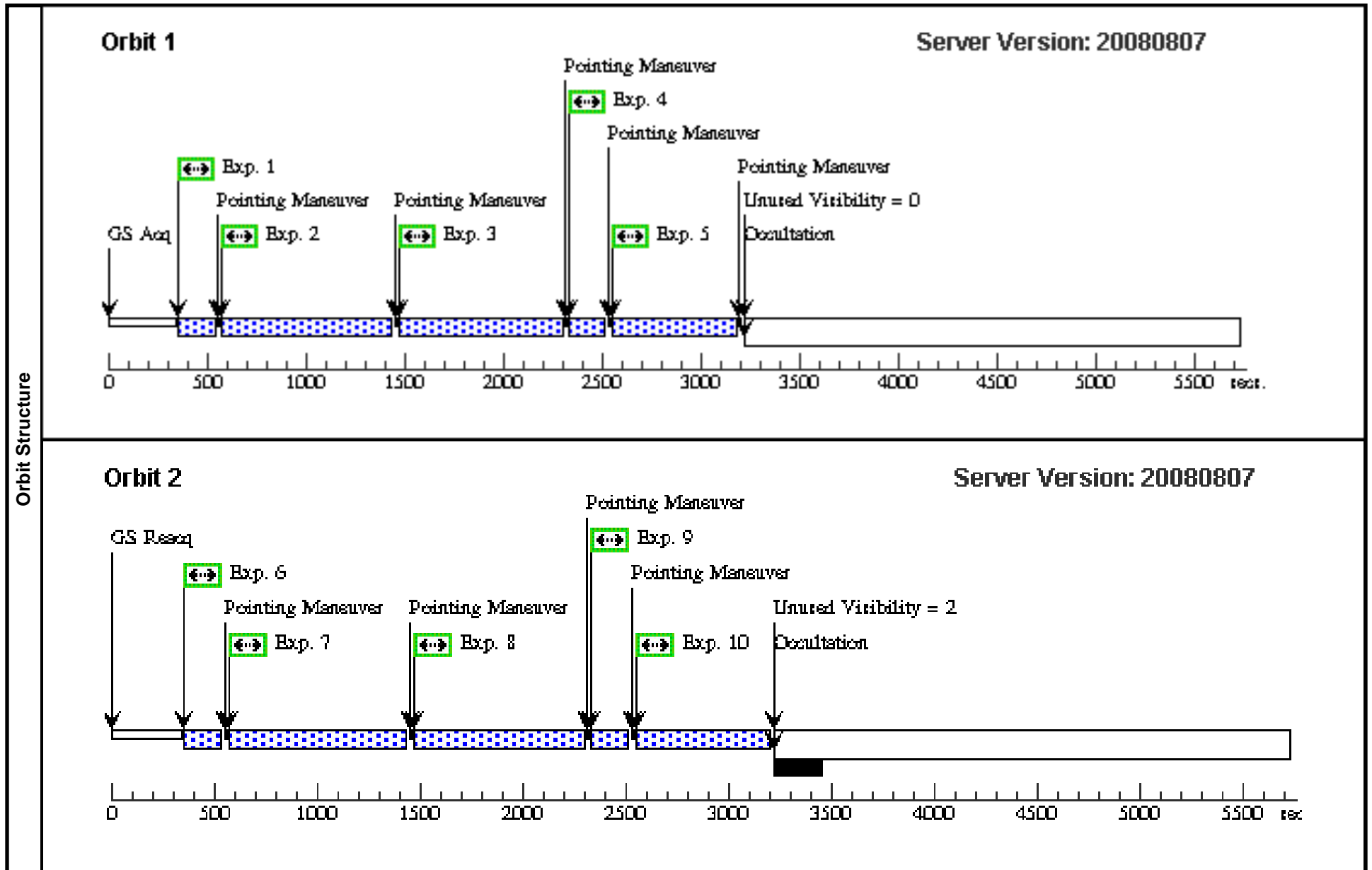
Visit		Proposal 11982, Visit 03, implementation									
Visit		Diagnostic Status: No Diagnostics									
Visit		Scientific Instruments: ACS/SBC									
Visit		Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(3)	SDSS1047+3250	RA: 10 47 57.7032 (161.9904300d) Dec: +32 50 23.54 (32.83987d) Equinox: J2000	Redshift: 4.09	V=20.0 GALEX m(FUV)=not detected, m(NUV)=23.47; SDSS u=22.87, g=21.26, r=19.96, i=19.75, z=19.75	Reference Frame: ICRS					
<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=23.32; m(NUV)=21.80</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	(3) SDSS1047+3250	ACS/SBC, ACCUM, SBC	F150LP					120 Secs [==>]	[1]	
	2	(3) SDSS1047+3250	ACS/SBC, ACCUM, SBC	PR130L					800 Secs [==>]	[1]	
	3	(3) SDSS1047+3250	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0		800 Secs [==>]	[1]	
	4	(3) SDSS1047+3250	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0		120 Secs [==>]	[1]	
	5	(3) SDSS1047+3250	ACS/SBC, ACCUM, SBC	PR130L					495 Secs [==>]	[1]	
	<i>Comments: exposure time may be adjusted</i>										
	6	(3) SDSS1047+3250	ACS/SBC, ACCUM, SBC	F150LP					120 Secs [==>]	[2]	
	7	(3) SDSS1047+3250	ACS/SBC, ACCUM, SBC	PR130L					800 Secs [==>]	[2]	
	8	(3) SDSS1047+3250	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0		800 Secs [==>]	[2]	
	9	(3) SDSS1047+3250	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0		120 Secs [==>]	[2]	
	10	(3) SDSS1047+3250	ACS/SBC, ACCUM, SBC	PR130L					520 Secs [==>]	[2]	
	<i>Comments: exposure time may be extended</i>										



Proposal 11982 - Visit 04 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:07 GMT 2009

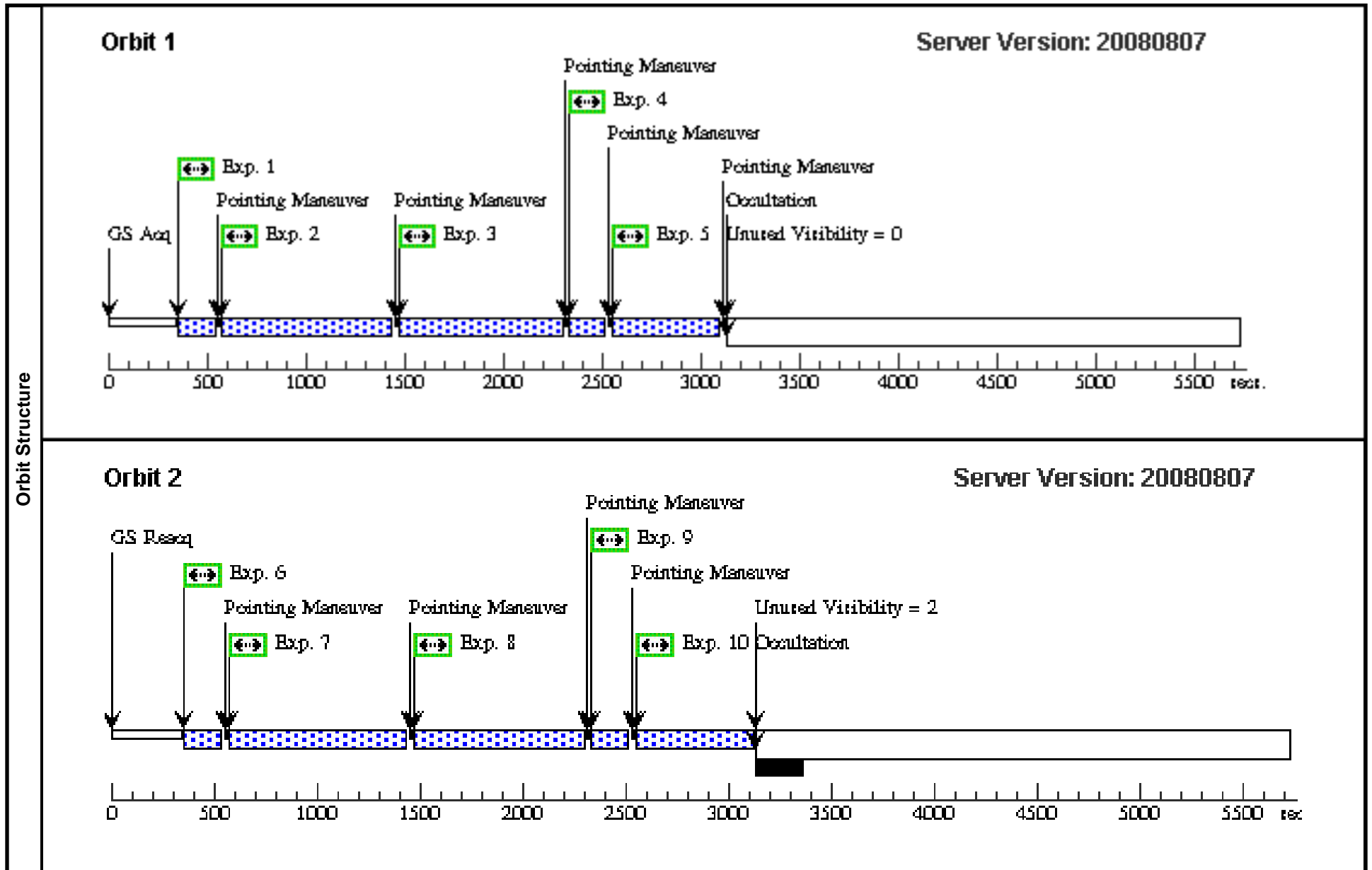
Visit	Proposal 11982, Visit 04, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(4)	Q1051+5728	RA: 10 51 44.6976 (162.9362400d) Dec: +57 28 7.61 (57.46878d) Equinox: J2000	Redshift: 3.41	V=22.6 GALEX m(FUV)=23.98, m(NUV)=22.42: SDSS u=23.28, g=23.09, r=22.62, i=22.00, z=21.57	Reference Frame: ICRS			
	<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=23.44; m(NUV)=22.31</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(4)	Q1051+5728	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[1]
	2	(4)	Q1051+5728	ACS/SBC, ACCUM, SBC	PR130L			800 Secs [==>]	[1]	
	3	(4)	Q1051+5728	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0	800 Secs [==>]	[1]	
	4	(4)	Q1051+5728	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0	120 Secs [==>]	[1]	
	5	(4)	Q1051+5728	ACS/SBC, ACCUM, SBC	PR130L			565 Secs [==>]	[1]	
	<i>Comments: exposure time may be adjusted</i>									
	6	(4)	Q1051+5728	ACS/SBC, ACCUM, SBC	F150LP			120 Secs [==>]	[2]	
	7	(4)	Q1051+5728	ACS/SBC, ACCUM, SBC	PR130L			800 Secs [==>]	[2]	
	8	(4)	Q1051+5728	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0	800 Secs [==>]	[2]	
	9	(4)	Q1051+5728	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0	120 Secs [==>]	[2]	
	10	(4)	Q1051+5728	ACS/SBC, ACCUM, SBC	PR130L			590 Secs [==>]	[2]	
	<i>Comments: exposure time may be extended</i>									



Proposal 11982 - Visit 05 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:07 GMT 2009

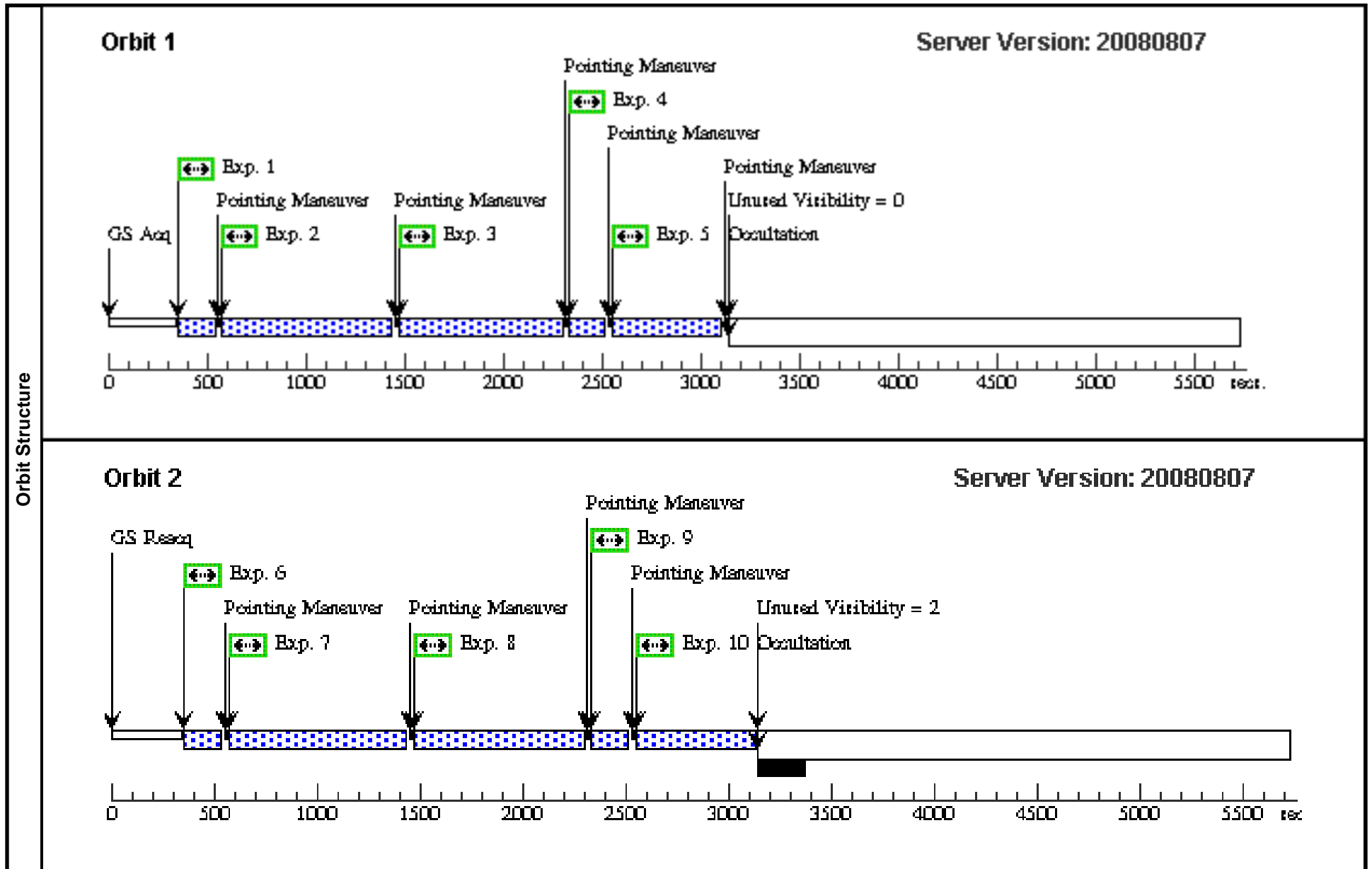
Visit		Proposal 11982, Visit 05, implementation									
Fixed Targets		Diagnostic Status: No Diagnostics									
		Scientific Instruments: ACS/SBC Special Requirements: (none)									
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous						
(5)	SDSS1058+1101	RA: 10 58 57.0912 (164.7378800d) Dec: +11 01 28.61 (11.02461d) Equinox: J2000	Redshift: 4.34	V=19.3 GALEX m(FUV)=not detected, m(NUV)=22.67; SDSS u=25.18, g=21.49, r=19.25, i=18.79, z=18.59	Reference Frame: ICRS						
<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=no detection; m(NUV)=22.26</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	(5) SDSS1058+1101	ACS/SBC, ACCUM, SBC	F150LP					120 Secs [==>]	[1]	
	2	(5) SDSS1058+1101	ACS/SBC, ACCUM, SBC	PR130L					800 Secs [==>]	[1]	
	3	(5) SDSS1058+1101	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0		800 Secs [==>]	[1]	
	4	(5) SDSS1058+1101	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0		120 Secs [==>]	[1]	
	5	(5) SDSS1058+1101	ACS/SBC, ACCUM, SBC	PR130L					480 Secs [==>]	[1]	
	<i>Comments: exposure time may be adjusted</i>										
	6	(5) SDSS1058+1101	ACS/SBC, ACCUM, SBC	F150LP					120 Secs [==>]	[2]	
	7	(5) SDSS1058+1101	ACS/SBC, ACCUM, SBC	PR130L					800 Secs [==>]	[2]	
	8	(5) SDSS1058+1101	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0		800 Secs [==>]	[2]	
	9	(5) SDSS1058+1101	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0		120 Secs [==>]	[2]	
10	(5) SDSS1058+1101	ACS/SBC, ACCUM, SBC	PR130L					505 Secs [==>]	[2]		
<i>Comments: exposure time may be extended</i>											



Proposal 11982 - Visit 06 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:08 GMT 2009

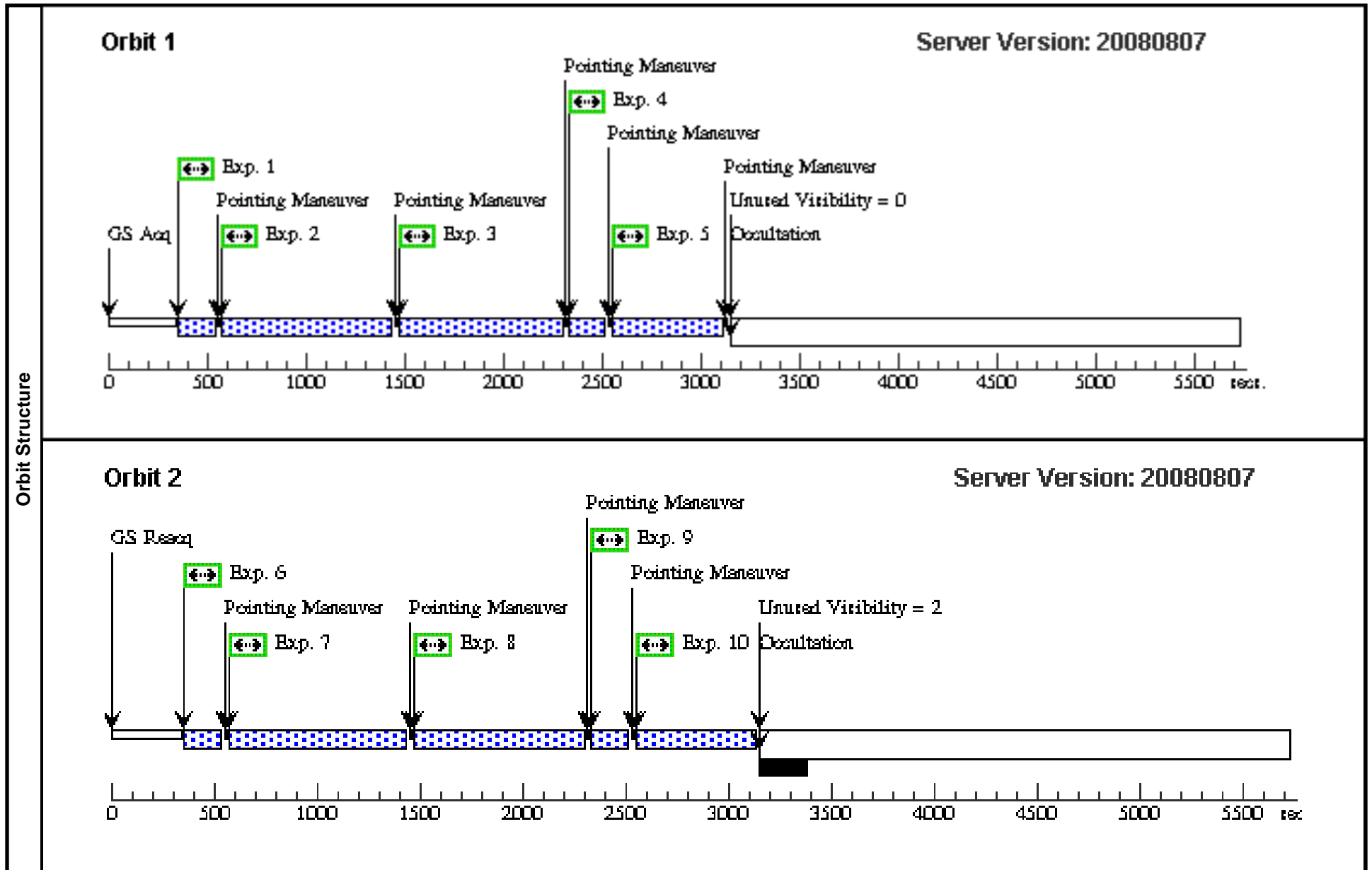
Visit	Proposal 11982, Visit 06, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC Special Requirements: (none)																																																																																																																																											
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>SDSS1143+2023</td> <td>RA: 11 43 56.0760 (175.9836500d) Dec: +20 23 9.35 (20.38593d) Equinox: J2000</td> <td>Redshift: 3.40</td> <td>V=20.1 GALEX m(FUV)=not detected, m(NUV)=22.30; SDSS u=23.48, g=20.66, r=20.15, i=19.99, z=19.99</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"> <i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=21.30; m(NUV)=20.40</i> </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(6)	SDSS1143+2023	RA: 11 43 56.0760 (175.9836500d) Dec: +20 23 9.35 (20.38593d) Equinox: J2000	Redshift: 3.40	V=20.1 GALEX m(FUV)=not detected, m(NUV)=22.30; SDSS u=23.48, g=20.66, r=20.15, i=19.99, z=19.99	Reference Frame: ICRS	<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=21.30; m(NUV)=20.40</i>																																																																																																																				
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	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																																																																																																																																		
1	(6) SDSS1143+2023	ACS/SBC, ACCUM, SBC	F150LP					120 Secs [==>]	[1]																																																																																																																																			
2	(6) SDSS1143+2023	ACS/SBC, ACCUM, SBC	PR130L					800 Secs [==>]	[1]																																																																																																																																			
3	(6) SDSS1143+2023	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0		800 Secs [==>]	[1]																																																																																																																																			
4	(6) SDSS1143+2023	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0		120 Secs [==>]	[1]																																																																																																																																			
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7	(6) SDSS1143+2023	ACS/SBC, ACCUM, SBC	PR130L					800 Secs [==>]	[2]																																																																																																																																			
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9	(6) SDSS1143+2023	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0		120 Secs [==>]	[2]																																																																																																																																			
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Proposal 11982 - Visit 07 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:08 GMT 2009

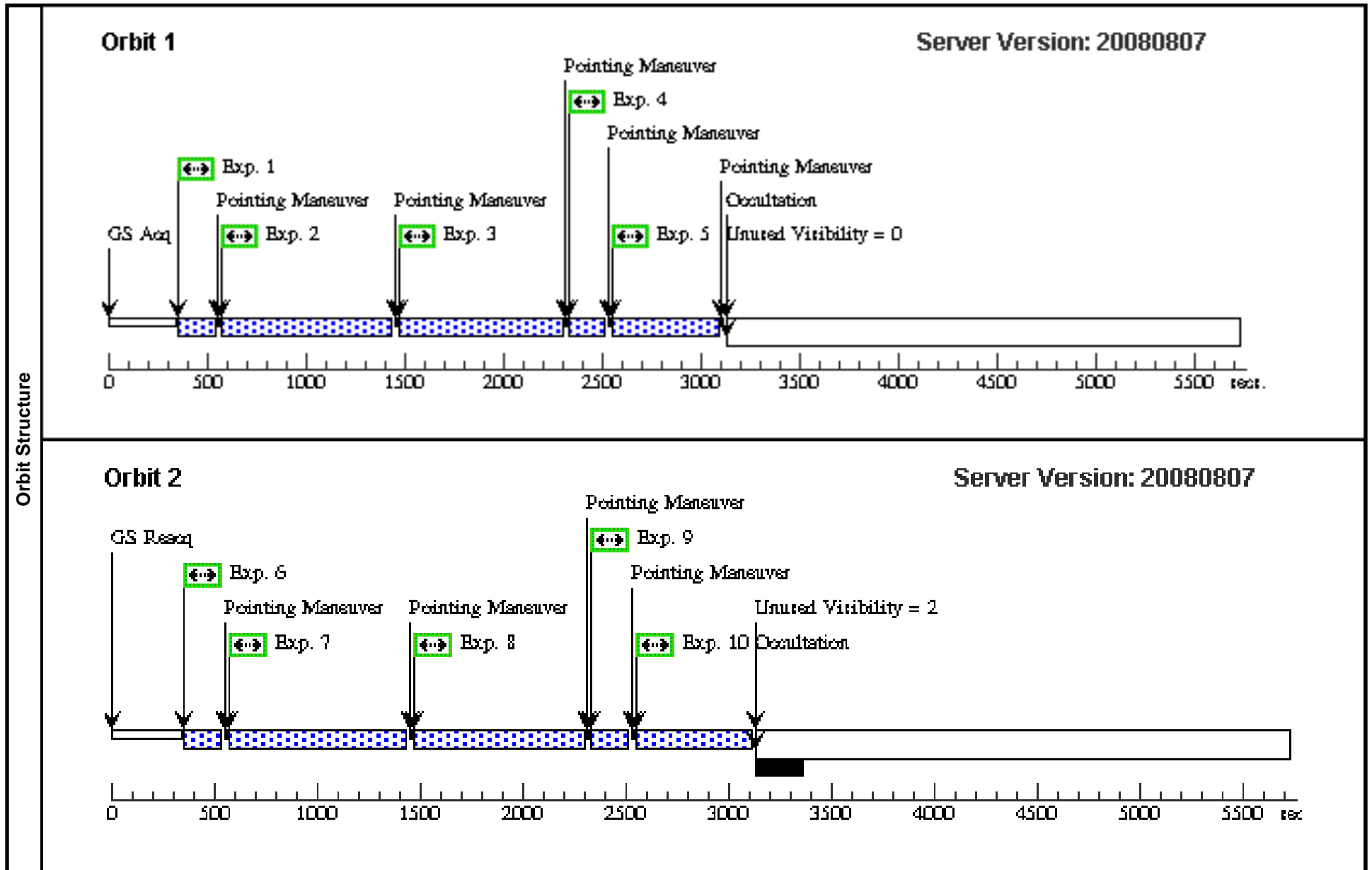
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Visit		Scientific Instruments: ACS/SBC									
Visit		Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(7)	SDSS1147+3017	RA: 11 47 38.3544 (176.9098100d) Dec: +30 17 17.57 (30.28821d) Equinox: J2000	Redshift: 3.38	V=18.8 GALEX m(FUV)=not detected, m(NUV)=22.25; SDSS u=23.10, g=19.53, r=18.81, i=18.45, z=18.14	Reference Frame: ICRS					
<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=no detection; m(NUV)=22.04.</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	(7) SDSS1147+3017	ACS/SBC, ACCUM, SBC	F150LP					120 Secs [==>]	[1]	
	2	(7) SDSS1147+3017	ACS/SBC, ACCUM, SBC	PR130L					800 Secs [==>]	[1]	
	3	(7) SDSS1147+3017	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0		800 Secs [==>]	[1]	
	4	(7) SDSS1147+3017	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0		120 Secs [==>]	[1]	
	5	(7) SDSS1147+3017	ACS/SBC, ACCUM, SBC	PR130L					495 Secs [==>]	[1]	
	<i>Comments: exposure time may be adjusted</i>										
	6	(7) SDSS1147+3017	ACS/SBC, ACCUM, SBC	F150LP					120 Secs [==>]	[2]	
	7	(7) SDSS1147+3017	ACS/SBC, ACCUM, SBC	PR130L					800 Secs [==>]	[2]	
	8	(7) SDSS1147+3017	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0		800 Secs [==>]	[2]	
	9	(7) SDSS1147+3017	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0		120 Secs [==>]	[2]	
	10	(7) SDSS1147+3017	ACS/SBC, ACCUM, SBC	PR130L					520 Secs [==>]	[2]	
	<i>Comments: exposure time may be extended</i>										



Proposal 11982 - Visit 08 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:09 GMT 2009

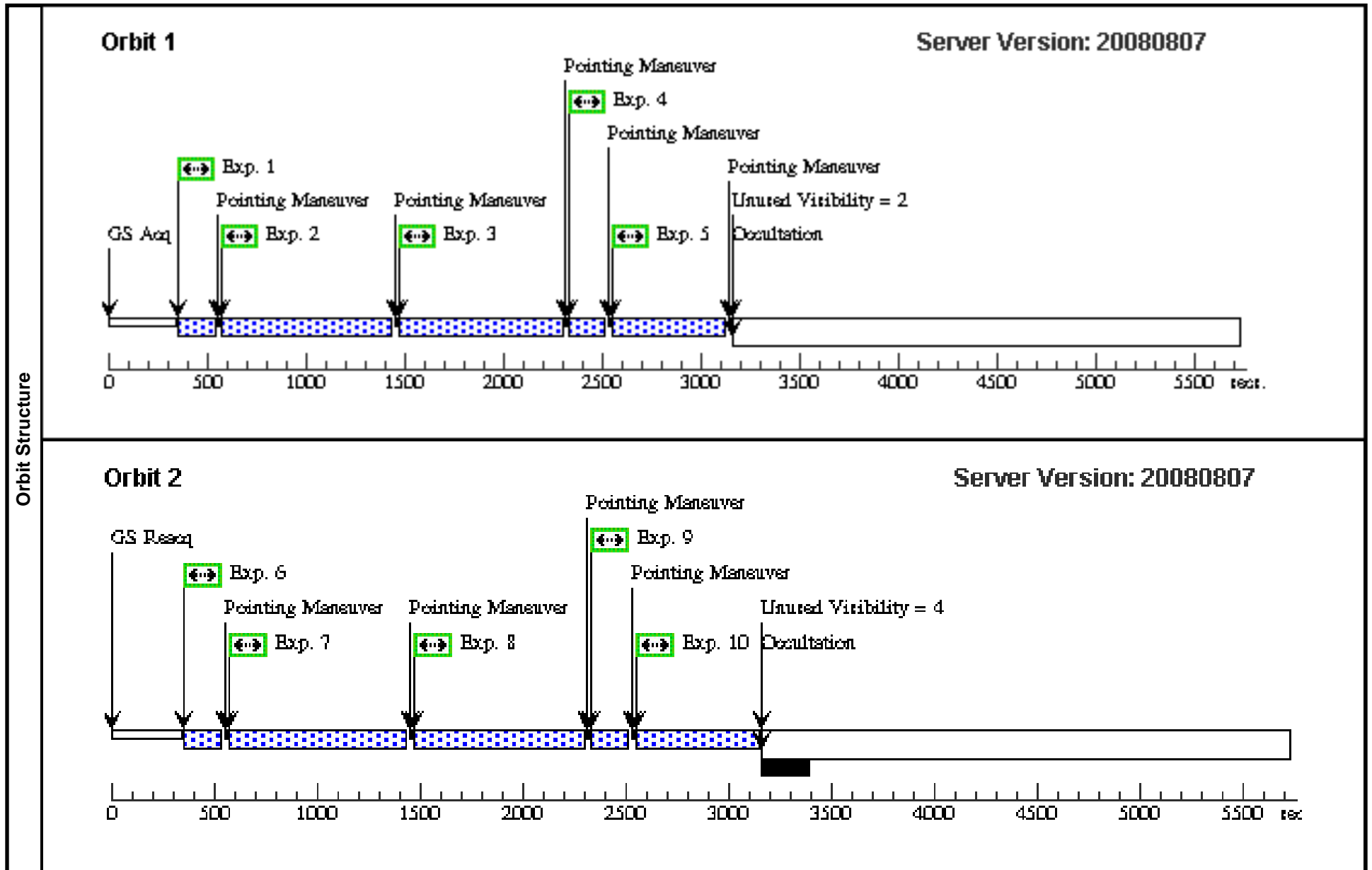
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Fixed Targets		Diagnostic Status: No Diagnostics								
		Scientific Instruments: ACS/SBC Special Requirements: (none)								
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
(8)	SDSS1206+0021	RA: 12 06 21.7368 (181.5905700d) Dec: +00 21 41.24 (.36146d) Equinox: J2000	Redshift: 3.65	V=19.7 GALEX m(FUV)=not detected, m(NUV)=21.86; SDSS u=23.57, g=20.75, r=19.68, i=19.54, z=19.49	Reference Frame: ICRS					
<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=no detections; m(NUV)=21.86</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(8) SDSS1206+0021	ACS/SBC, ACCUM, SBC	F150LP					120 Secs [==>]	[1]
	2	(8) SDSS1206+0021	ACS/SBC, ACCUM, SBC	PR130L					800 Secs [==>]	[1]
	3	(8) SDSS1206+0021	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0		800 Secs [==>]	[1]
	4	(8) SDSS1206+0021	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0		120 Secs [==>]	[1]
	5	(8) SDSS1206+0021	ACS/SBC, ACCUM, SBC	PR130L					475 Secs [==>]	[1]
	<i>Comments: exposure time may be adjusted</i>									
	6	(8) SDSS1206+0021	ACS/SBC, ACCUM, SBC	F150LP					120 Secs [==>]	[2]
	7	(8) SDSS1206+0021	ACS/SBC, ACCUM, SBC	PR130L					800 Secs [==>]	[2]
	8	(8) SDSS1206+0021	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0		800 Secs [==>]	[2]
	9	(8) SDSS1206+0021	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0		120 Secs [==>]	[2]
	10	(8) SDSS1206+0021	ACS/SBC, ACCUM, SBC	PR130L					500 Secs [==>]	[2]
	<i>Comments: exposure time may be extended</i>									



Proposal 11982 - Visit 09 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:09 GMT 2009

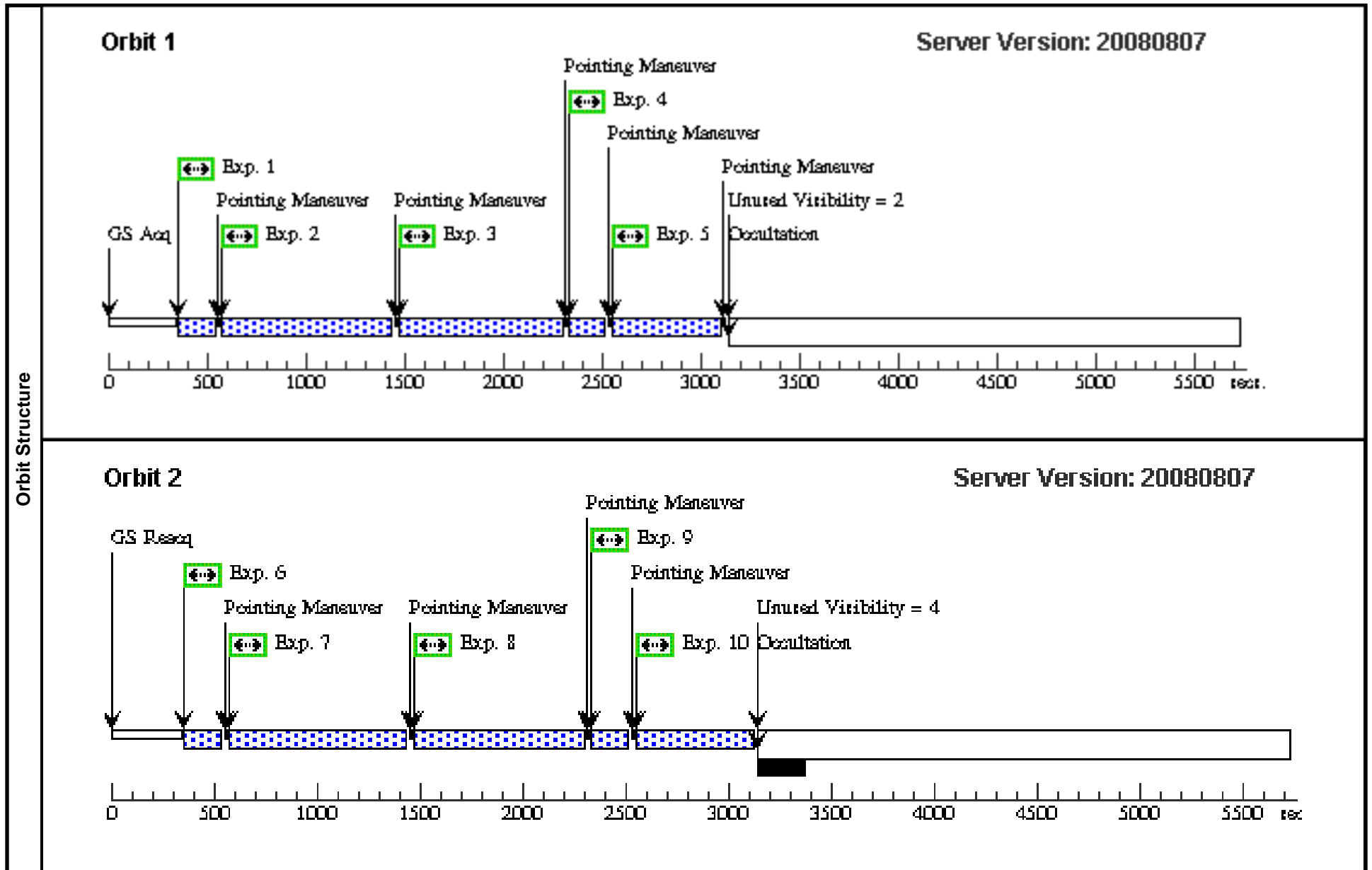
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Visit		Diagnostic Status: No Diagnostics								
Visit		Scientific Instruments: ACS/SBC								
Visit		Special Requirements: (none)								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	SDSS1210+4426	RA: 12 10 19.9656 (182.5831900d) Dec: +44 26 52.37 (44.44788d) Equinox: J2000	Redshift: 3.37	V=19.6 GALEX m(FUV)=23.01, m(NUV)=23.60; SDSS u=22.60, g=20.02, r=19.60, i=19.51, z=19.35	Reference Frame: ICRS				
<i>Comments: brightest GALEX source within 35 arcsec; m(FUV)=23.10; m(NUV)=22.50</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(9) SDSS1210+4426	ACS/SBC, ACCUM, SBC	F150LP					120 Secs [==>]	[1]
	2	(9) SDSS1210+4426	ACS/SBC, ACCUM, SBC	PR130L					800 Secs [==>]	[1]
	3	(9) SDSS1210+4426	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0		800 Secs [==>]	[1]
	4	(9) SDSS1210+4426	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0		120 Secs [==>]	[1]
	5	(9) SDSS1210+4426	ACS/SBC, ACCUM, SBC	PR130L					510 Secs [==>]	[1]
	<i>Comments: exposure time may be adjusted</i>									
	6	(9) SDSS1210+4426	ACS/SBC, ACCUM, SBC	F150LP					120 Secs [==>]	[2]
	7	(9) SDSS1210+4426	ACS/SBC, ACCUM, SBC	PR130L					800 Secs [==>]	[2]
	8	(9) SDSS1210+4426	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0		800 Secs [==>]	[2]
9	(9) SDSS1210+4426	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0		120 Secs [==>]	[2]	
10	(9) SDSS1210+4426	ACS/SBC, ACCUM, SBC	PR130L					535 Secs [==>]	[2]	
<i>Comments: exposure time may be extended</i>										



Proposal 11982 - Visit 10 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:10 GMT 2009

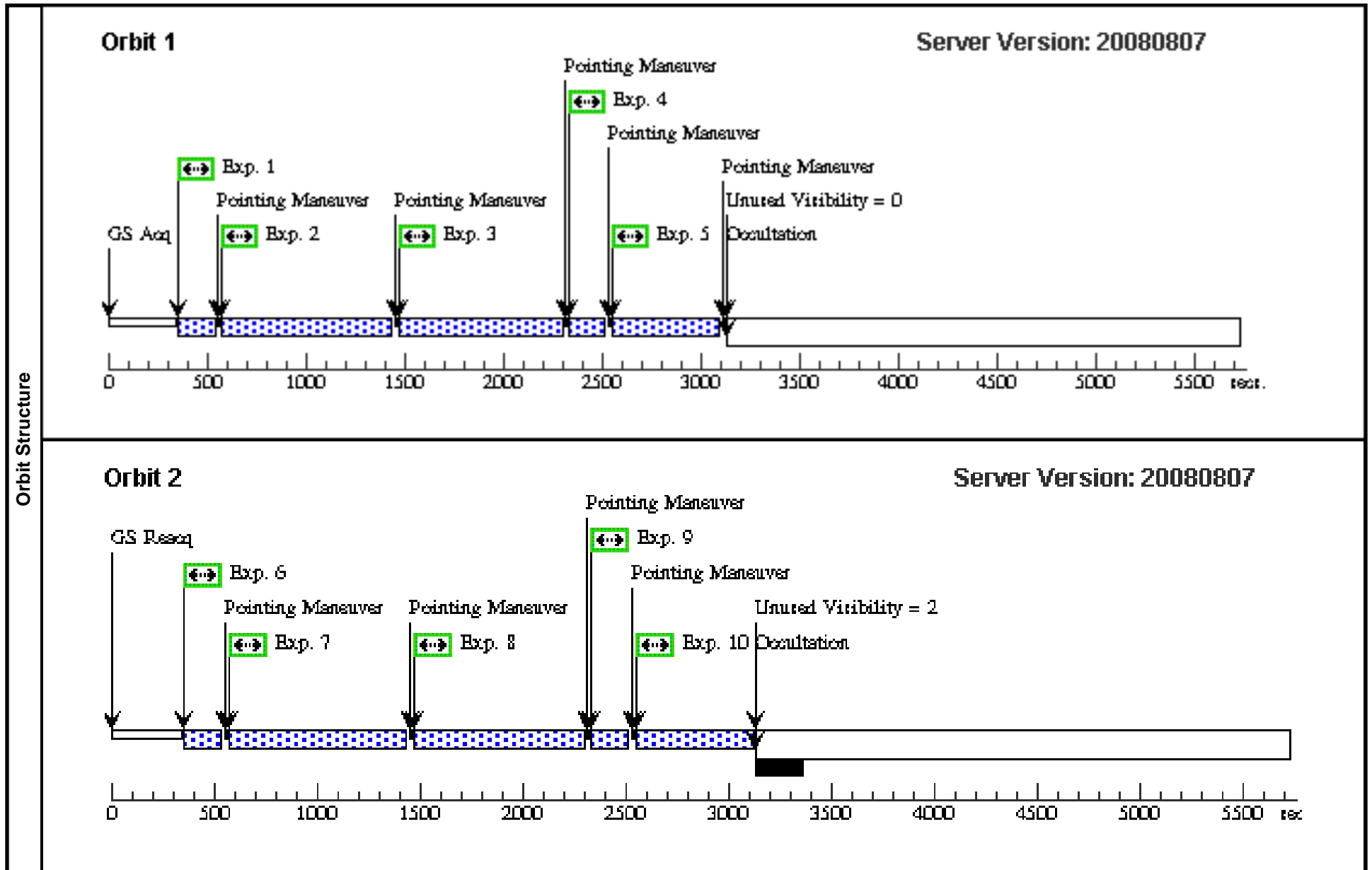
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	Diagnostic Status: No Diagnostics										
Scientific Instruments: ACS/SBC											
Special Requirements: (none)											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(10)	SDSS1219+1942	RA: 12 19 12.9600 (184.8040000d) Dec: +19 42 21.17 (19.70588d) Equinox: J2000	Redshift: 3.29	V=19.5 GALEX m(FUV)=23.30, m(NUV)=22.40; SDSS u=23.48, g=19.82, r=19.47, i=19.41, z=19.38	Reference Frame: ICRS					
<i>Comments: brightest of GALEX sources within 35 arcsec is quasar target itself: m(FUV)=23.30; m(NUV)=22.40</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(10) SDSS1219+1942	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
			2						[==>]	[1]	
	2		(10) SDSS1219+1942	ACS/SBC, ACCUM, SBC	PR130L				800 Secs		
			2						[==>]	[1]	
	3		(10) SDSS1219+1942	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0	800 Secs		
			2						[==>]	[1]	
	4		(10) SDSS1219+1942	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0	120 Secs		
			2						[==>]	[1]	
	5		(10) SDSS1219+1942	ACS/SBC, ACCUM, SBC	PR130L				485 Secs		
			2						[==>]	[1]	
	<i>Comments: exposure time may be adjusted</i>										
	6		(10) SDSS1219+1942	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
		2						[==>]	[2]		
7		(10) SDSS1219+1942	ACS/SBC, ACCUM, SBC	PR130L				800 Secs			
		2						[==>]	[2]		
8		(10) SDSS1219+1942	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0	800 Secs			
		2						[==>]	[2]		
9		(10) SDSS1219+1942	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0	120 Secs			
		2						[==>]	[2]		
10		(10) SDSS1219+1942	ACS/SBC, ACCUM, SBC	PR130L				510 Secs			
		2						[==>]	[2]		
<i>Comments: exposure time may be extended</i>											



Proposal 11982 - Visit 11 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:10 GMT 2009

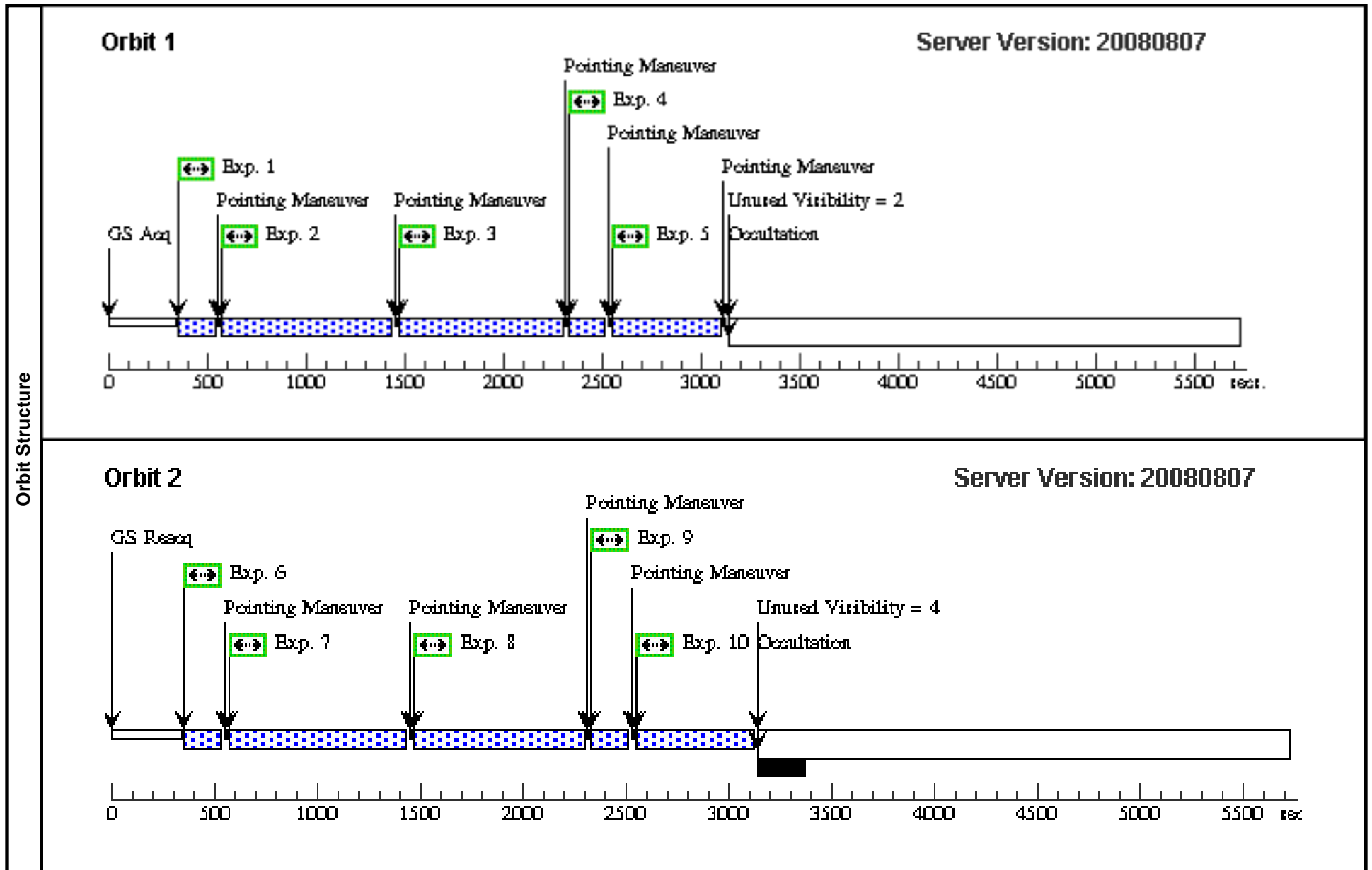
Visit	Proposal 11982, Visit 11, implementation										
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Fixed Targets	Scientific Instruments: ACS/SBC										
	Special Requirements: (none)										
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous						
(11)	SDSS1226+1037	RA: 12 26 39.6960 (186.6654000d) Dec: +10 37 8.33 (10.61898d) Equinox: J2000	Redshift: 3.28	V=20.1 GALEX m(FUV)=not detected; m(NUV)=22.00; SDSS u=23.43, g=20.32, r=20.06, i=20.06, z=19.96	Reference Frame: ICRS						
<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=22.20; m(NUV)=22.00</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(11) SDSS1226+103 7	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[1]	
	2		(11) SDSS1226+103 7	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[1]	
	3		(11) SDSS1226+103 7	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs [==>]	[1]	
	4		(11) SDSS1226+103 7	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs [==>]	[1]	
	5		(11) SDSS1226+103 7	ACS/SBC, ACCUM, SBC	PR130L				480 Secs [==>]	[1]	
	<i>Comments: exposure time may be adjusted</i>										
	6		(11) SDSS1226+103 7	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[2]	
	7		(11) SDSS1226+103 7	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[2]	
	8		(11) SDSS1226+103 7	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs [==>]	[2]	
9		(11) SDSS1226+103 7	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs [==>]	[2]		
10		(11) SDSS1226+103 7	ACS/SBC, ACCUM, SBC	PR130L				505 Secs [==>]	[2]		
<i>Comments: exposure time may be extended</i>											



Proposal 11982 - Visit 12 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:11 GMT 2009

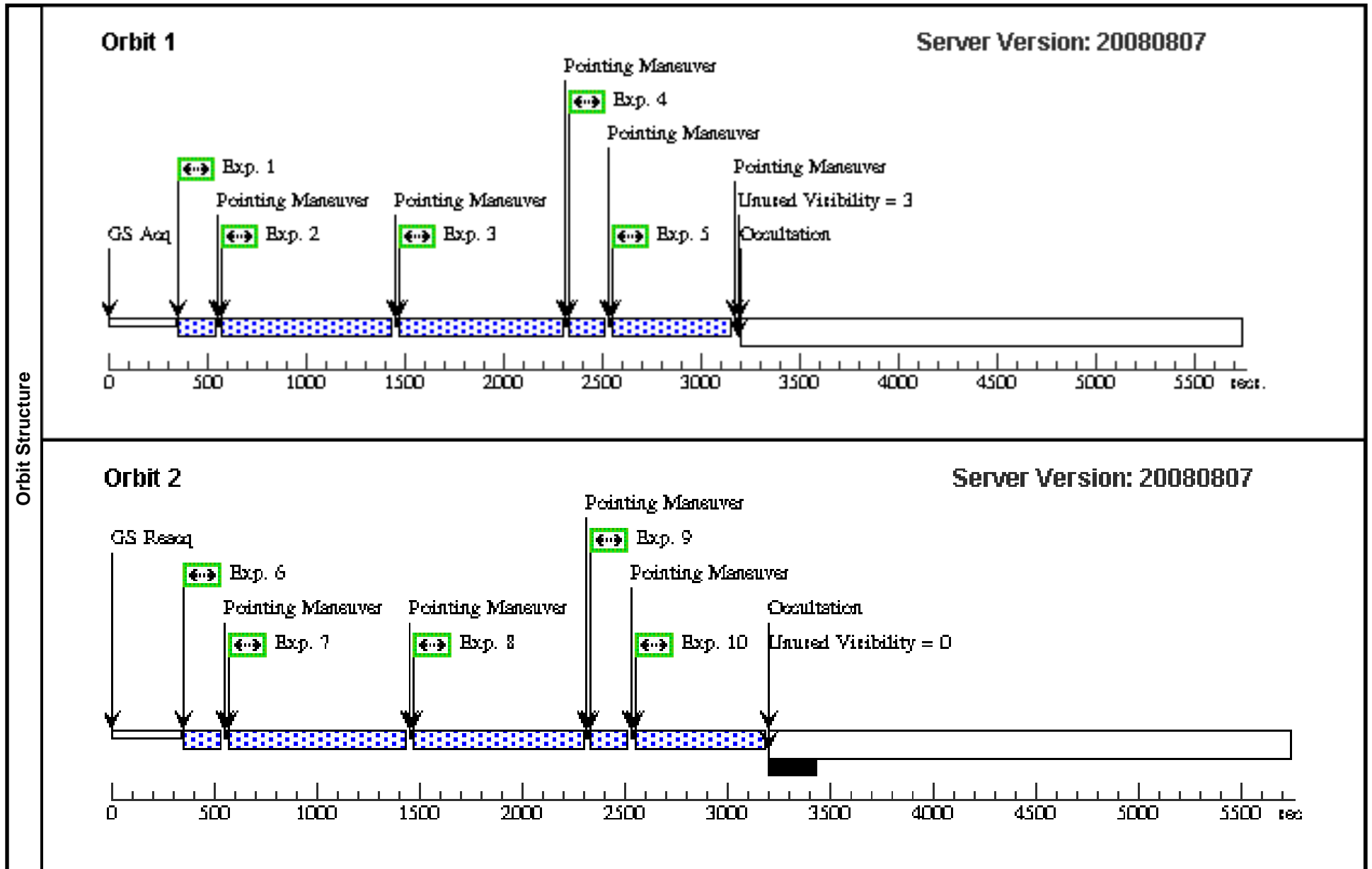
Visit		Proposal 11982, Visit 12, implementation									
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		Scientific Instruments: ACS/SBC									
		Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(12)	SDSS1227+1655	RA: 12 27 52.0176 (186.9667400d) Dec: +16 55 22.73 (16.92298d) Equinox: J2000	Redshift: 3.35	V=18.8 GALEX m(FUV)=not detected, m(NUV)=22.30; SDSS u=21.70, g=19.34, r=18.81, i=18.64, z=18.47	Reference Frame: ICRS					
<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=no detections; m(NUV)=22.20</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(12) SDSS1227+1655	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
			5						[==>]	[1]	
	2		(12) SDSS1227+1655	ACS/SBC, ACCUM, SBC	PR130L				800 Secs		
			5						[==>]	[1]	
	3		(12) SDSS1227+1655	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs		
			5						[==>]	[1]	
	4		(12) SDSS1227+1655	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs		
			5						[==>]	[1]	
	5		(12) SDSS1227+1655	ACS/SBC, ACCUM, SBC	PR130L				485 Secs		
			5						[==>]	[1]	
	<i>Comments: exposure time may be adjusted</i>										
	6		(12) SDSS1227+1655	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
		5						[==>]	[2]		
7		(12) SDSS1227+1655	ACS/SBC, ACCUM, SBC	PR130L				800 Secs			
		5						[==>]	[2]		
8		(12) SDSS1227+1655	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs			
		5						[==>]	[2]		
9		(12) SDSS1227+1655	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs			
		5						[==>]	[2]		
10		(12) SDSS1227+1655	ACS/SBC, ACCUM, SBC	PR130L				510 Secs			
		5						[==>]	[2]		
<i>Comments: exposure time may be extended</i>											



Proposal 11982 - Visit 13 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:11 GMT 2009

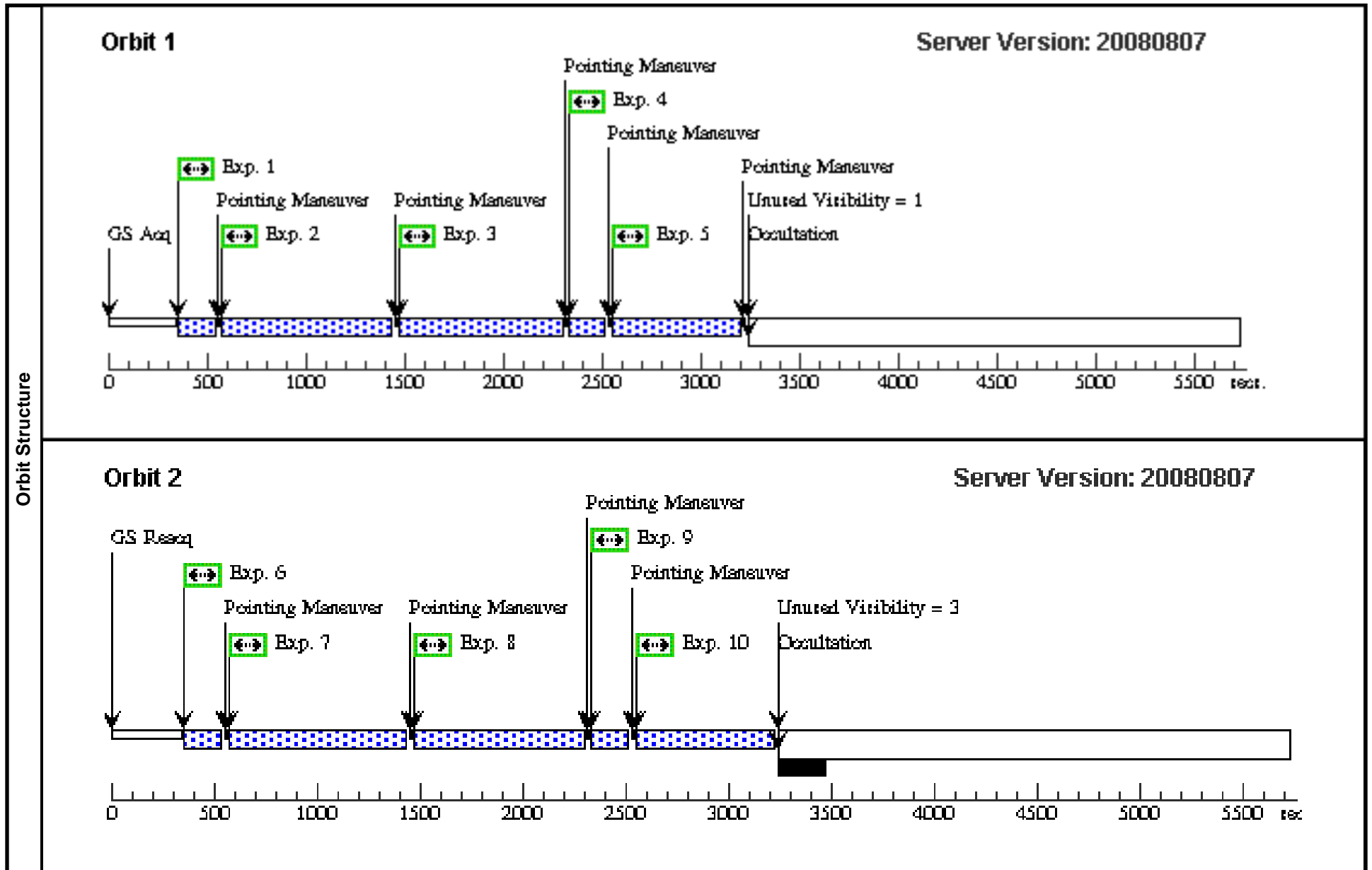
Visit		Proposal 11982, Visit 13, implementation									
Visit		Diagnostic Status: No Diagnostics									
Visit		Scientific Instruments: ACS/SBC									
Visit		Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(13)	SDSS1243+5305	RA: 12 43 6.5592 (190.7773300d) Dec: +53 05 22.10 (53.08947d) Equinox: J2000	Redshift: 3.57	V=18.3 GALEX m(FUV)=21.98, m(NUV)=22.58; SDSS u=22.17, g=19.15, r=18.33, i=18.27, z=18.20	Reference Frame: ICRS					
<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=21.98; m(NUV)=22.56</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(13) SDSS1243+5305	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
			5						[==>]	[1]	
	2		(13) SDSS1243+5305	ACS/SBC, ACCUM, SBC	PR130L				800 Secs		
			5						[==>]	[1]	
	3		(13) SDSS1243+5305	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs		
			5						[==>]	[1]	
	4		(13) SDSS1243+5305	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs		
			5						[==>]	[1]	
	5		(13) SDSS1243+5305	ACS/SBC, ACCUM, SBC	PR130L				540 Secs		
			5						[==>]	[1]	
	<i>Comments: exposure time may be adjusted</i>										
	6		(13) SDSS1243+5305	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
		5						[==>]	[2]		
7		(13) SDSS1243+5305	ACS/SBC, ACCUM, SBC	PR130L				800 Secs			
		5						[==>]	[2]		
8		(13) SDSS1243+5305	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs			
		5						[==>]	[2]		
9		(13) SDSS1243+5305	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs			
		5						[==>]	[2]		
10		(13) SDSS1243+5305	ACS/SBC, ACCUM, SBC	PR130L				570 Secs			
		5						[==>]	[2]		
<i>Comments: exposure time may be extended</i>											



Proposal 11982 - Visit 14 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:12 GMT 2009

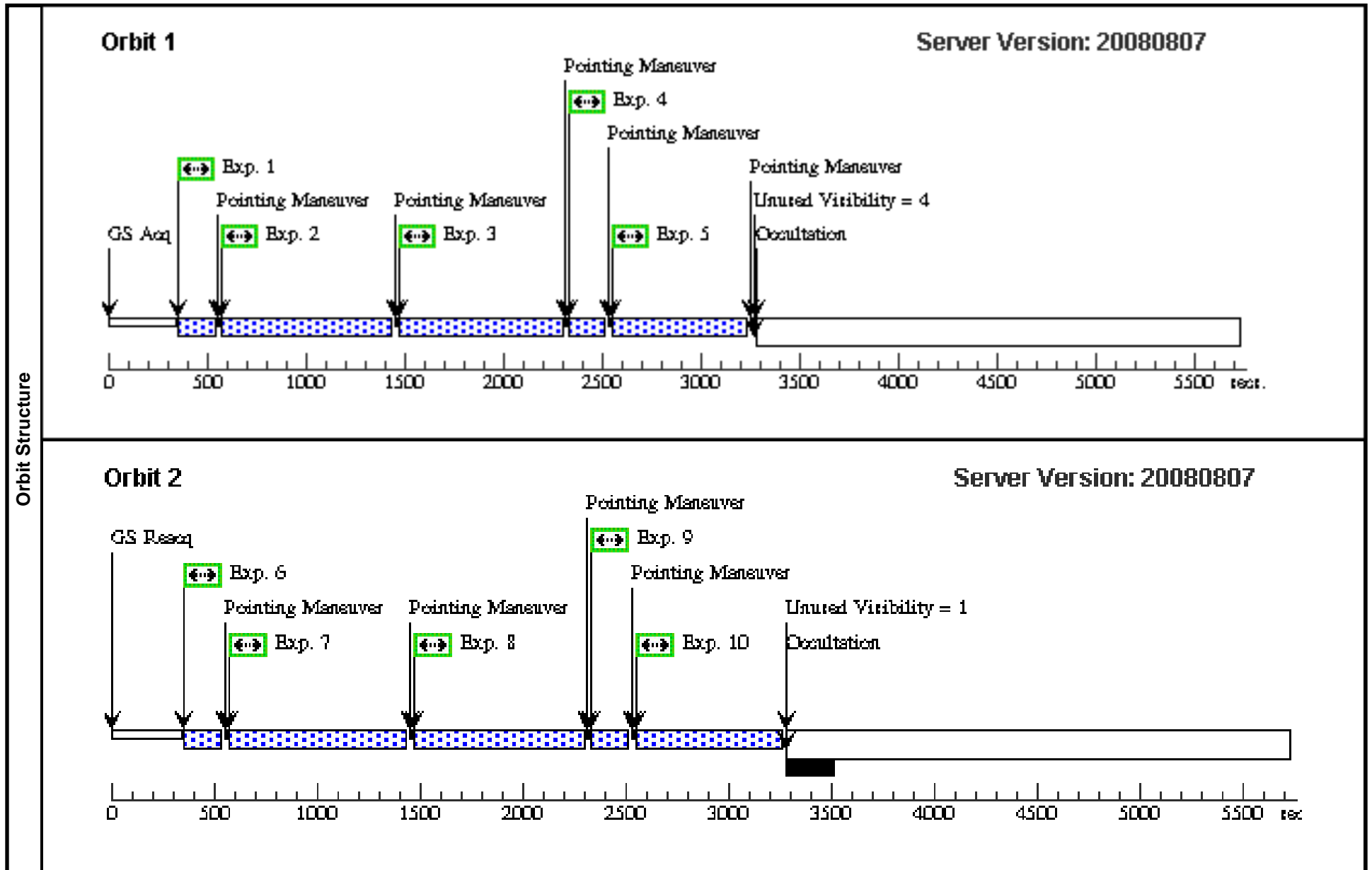
Visit	Proposal 11982, Visit 14, implementation										
		Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(14)	SDSS1246+6440	RA: 12 46 45.1536 (191.6881400d) Dec: +64 40 36.12 (64.67670d) Equinox: J2000	Redshift: 3.62	V=19.6 GALEX m(FUV)=not detected, m(NUV)=22.34; SDSS u=23.01, g=20.80, r=19.63, i=19.54, z=19.39	Reference Frame: ICRS					
	<i>Comments: brightest of GALEX sources within 35 arcsec is quasar target itself; m(FUV)=not detected; m(NUV)=22.34</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(14) SDSS1246+6440	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
									[==>]	[1]	
	2		(14) SDSS1246+6440	ACS/SBC, ACCUM, SBC	PR130L				800 Secs		
									[==>]	[1]	
	3		(14) SDSS1246+6440	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0	800 Secs		
									[==>]	[1]	
	4		(14) SDSS1246+6440	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0	120 Secs		
									[==>]	[1]	
	5		(14) SDSS1246+6440	ACS/SBC, ACCUM, SBC	PR130L				585 Secs		
									[==>]	[1]	
		<i>Comments: exposure time may be adjusted</i>									
	6		(14) SDSS1246+6440	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
								[==>]	[2]		
7		(14) SDSS1246+6440	ACS/SBC, ACCUM, SBC	PR130L				800 Secs			
								[==>]	[2]		
8		(14) SDSS1246+6440	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0	800 Secs			
								[==>]	[2]		
9		(14) SDSS1246+6440	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0	120 Secs			
								[==>]	[2]		
10		(14) SDSS1246+6440	ACS/SBC, ACCUM, SBC	PR130L				610 Secs			
								[==>]	[2]		
	<i>Comments: exposure time may be extended</i>										



Proposal 11982 - Visit 15 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:12 GMT 2009

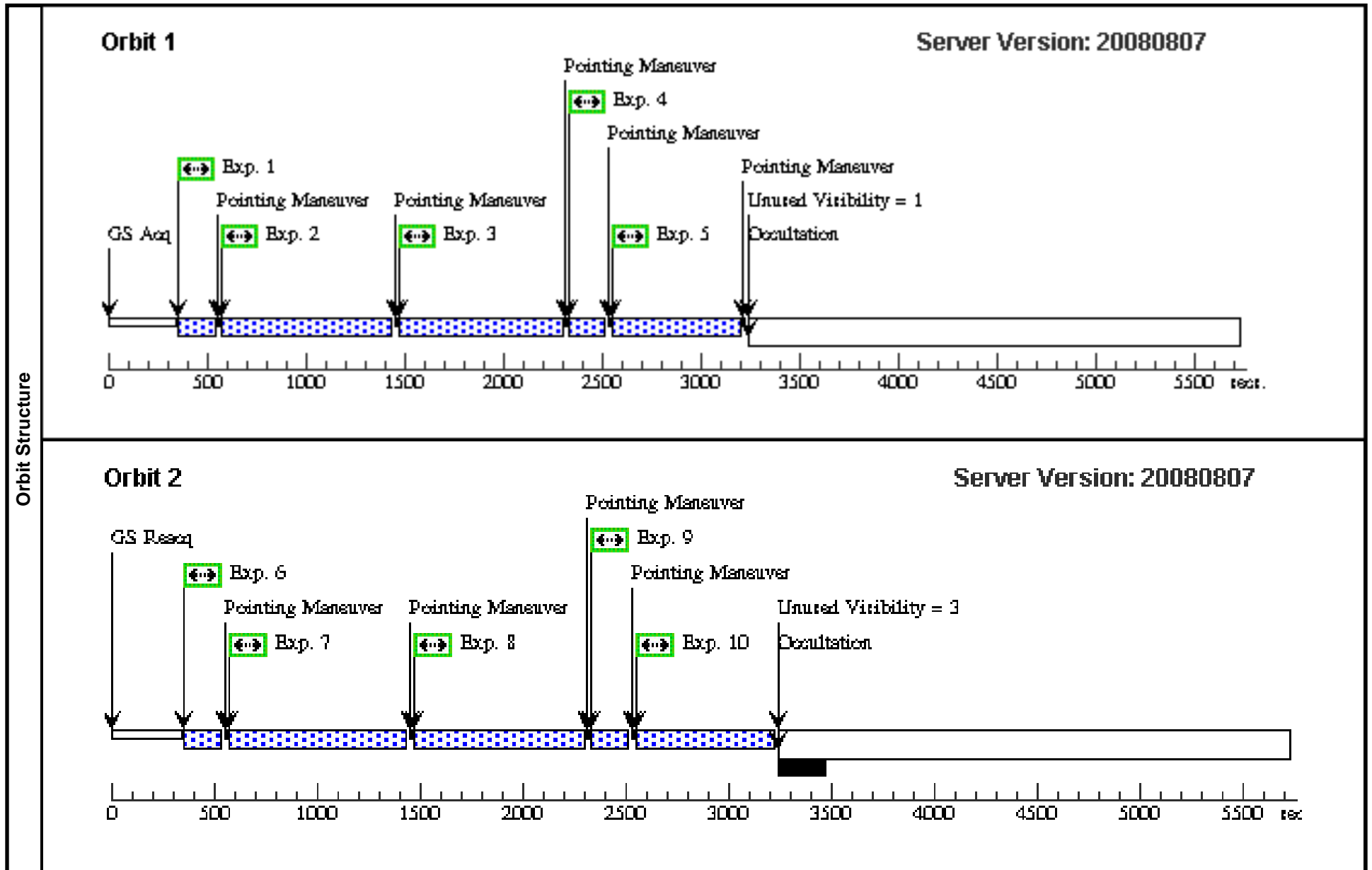
Visit		Proposal 11982, Visit 15, implementation								
		Diagnostic Status: No Diagnostics								
		Scientific Instruments: ACS/SBC								
		Special Requirements: (none)								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(15)	SDSS1253+6817	RA: 12 53 53.7144 (193.4738100d) Dec: +68 17 14.15 (68.28726d) Equinox: J2000	Redshift: 3.47	V=18.6 GALEX m(FUV)=22.08, m(NUV)=21.87; SDSS u=22.10, g=19.13, r=18.60, i=18.49, z=18.36	Reference Frame: ICRS				
		<i>Comments: brightest GALEX source within 35 arcsec; m(FUV)=22.05; m(NUV)=21.87</i>								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(15) SDSS1253+6817	ACS/SBC, ACCUM, SBC	F150LP				120 Secs	
			7						[==>]	[1]
	2		(15) SDSS1253+6817	ACS/SBC, ACCUM, SBC	PR130L				800 Secs	
			7						[==>]	[1]
	3		(15) SDSS1253+6817	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs	
			7						[==>]	[1]
	4		(15) SDSS1253+6817	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs	
			7						[==>]	[1]
	5		(15) SDSS1253+6817	ACS/SBC, ACCUM, SBC	PR130L				620 Secs	
			7						[==>]	[1]
			<i>Comments: exposure time may be adjusted</i>							
	6		(15) SDSS1253+6817	ACS/SBC, ACCUM, SBC	F150LP				120 Secs	
		7						[==>]	[2]	
7		(15) SDSS1253+6817	ACS/SBC, ACCUM, SBC	PR130L				800 Secs		
		7						[==>]	[2]	
8		(15) SDSS1253+6817	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs		
		7						[==>]	[2]	
9		(15) SDSS1253+6817	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs		
		7						[==>]	[2]	
10		(15) SDSS1253+6817	ACS/SBC, ACCUM, SBC	PR130L				650 Secs		
		7						[==>]	[2]	
		<i>Comments: exposure time may be extended</i>								



Proposal 11982 - Visit 16 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:12 GMT 2009

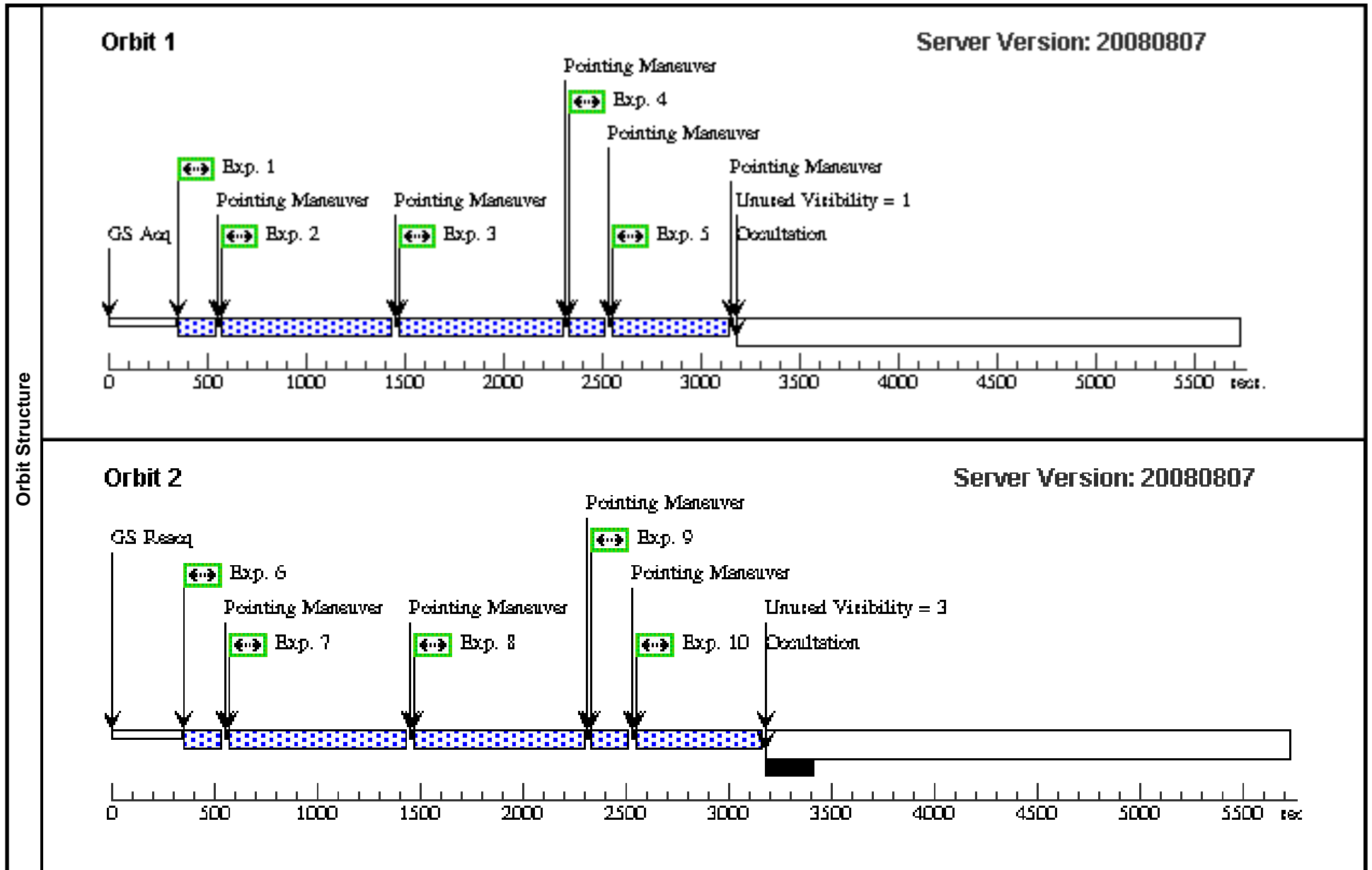
Visit		Proposal 11982, Visit 16, implementation									
		Diagnostic Status: No Diagnostics									
		Scientific Instruments: ACS/SBC									
		Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(16)	SDSS1259+6212	RA: 12 59 3.2616 (194.7635900d) Dec: +62 12 11.69 (62.20325d) Equinox: J2000	Redshift: 3.24	V=18.2 GALEX m(FUV)=21.99, m(NUV)=22.22; SDSS u=23.38, g=18.55, r=18.19, i=18.04, z=17.95	Reference Frame: ICRS					
<i>Comments: brightest of GALEX sources within 35 arcsec is quasar target itself; m(FUV)=21.99; m(NUV)=22.22</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(16) SDSS1259+6212 2	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[1]	
	2		(16) SDSS1259+6212 2	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[1]	
	3		(16) SDSS1259+6212 2	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs [==>]	[1]	
	4		(16) SDSS1259+6212 2	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs [==>]	[1]	
	5		(16) SDSS1259+6212 2	ACS/SBC, ACCUM, SBC	PR130L				585 Secs [==>]	[1]	
	<i>Comments: exposure time may be adjusted</i>										
	6		(16) SDSS1259+6212 2	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[2]	
	7		(16) SDSS1259+6212 2	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[2]	
	8		(16) SDSS1259+6212 2	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs [==>]	[2]	
	9		(16) SDSS1259+6212 2	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs [==>]	[2]	
	10		(16) SDSS1259+6212 2	ACS/SBC, ACCUM, SBC	PR130L				610 Secs [==>]	[2]	
	<i>Comments: exposure time may be extended</i>										



Proposal 11982 - Visit 17 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:13 GMT 2009

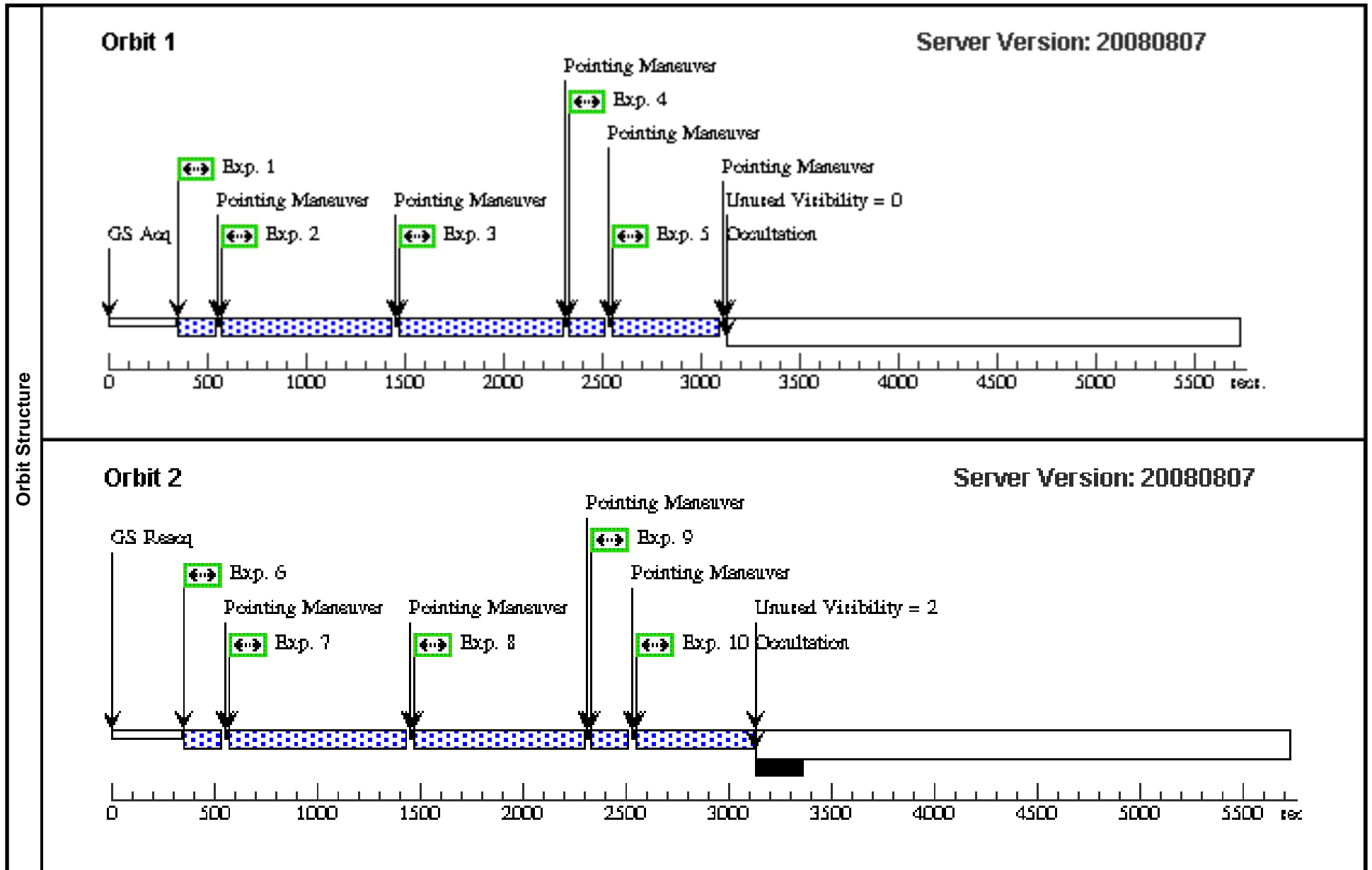
Visit		Proposal 11982, Visit 17, implementation								
Fixed Targets		Diagnostic Status: No Diagnostics								
		Scientific Instruments: ACS/SBC Special Requirements: (none)								
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
(17)	SDSS1315+4856	RA: 13 15 36.5736 (198.9023900d) Dec: +48 56 29.14 (48.94143d) Equinox: J2000	Redshift: 3.62	V=19.8 GALEX m(FUV)=22.28, m(NUV)=not detected; SDSS u= 26.47, g=20.74, r=19.78, i=19.63, z=19.88	Reference Frame: ICRS					
<i>Comments: brightest GALEX source within 35 arcsec: m(FUV)=21.72; m(NUV)=22.48</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(17) SDSS1315+4856	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[1]
	2		(17) SDSS1315+4856	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[1]
	3		(17) SDSS1315+4856	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs [==>]	[1]
	4		(17) SDSS1315+4856	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs [==>]	[1]
	5		(17) SDSS1315+4856	ACS/SBC, ACCUM, SBC	PR130L				525 Secs [==>]	[1]
	<i>Comments: exposure time may be adjusted</i>									
	6		(17) SDSS1315+4856	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[2]
	7		(17) SDSS1315+4856	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[2]
	8		(17) SDSS1315+4856	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs [==>]	[2]
9		(17) SDSS1315+4856	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs [==>]	[2]	
10		(17) SDSS1315+4856	ACS/SBC, ACCUM, SBC	PR130L				550 Secs [==>]	[2]	
<i>Comments: exposure time may be extended</i>										



Proposal 11982 - Visit 18 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:13 GMT 2009

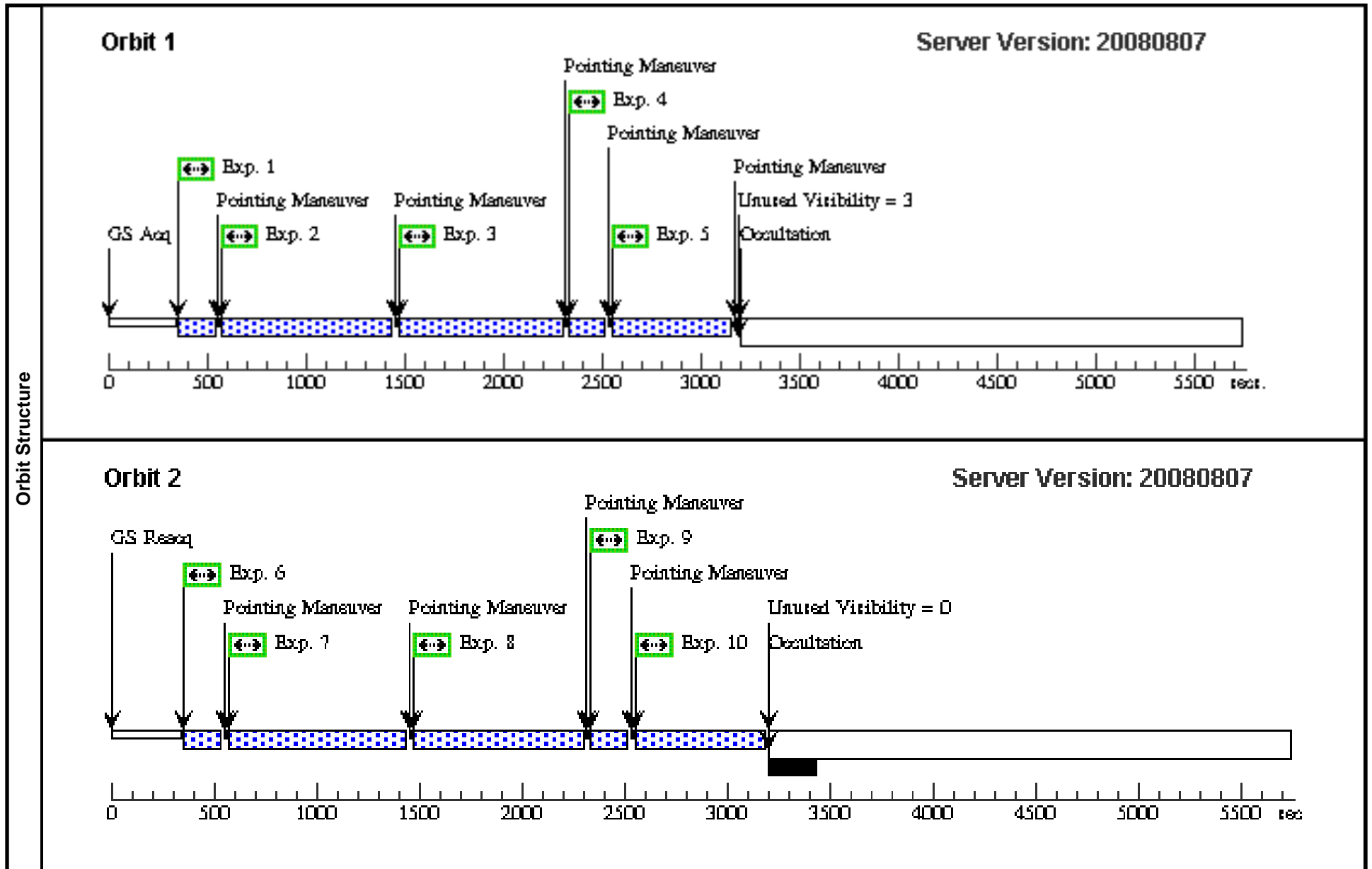
Visit	Proposal 11982, Visit 18, implementation										
	Diagnostic Status: No Diagnostics										
Scientific Instruments: ACS/SBC											
Special Requirements: (none)											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(18)	SDSS1316+1100	RA: 13 16 23.9592 (199.0998300d) Dec: +11 00 1.99 (11.00055d) Equinox: J2000	Redshift: 3.61	V=20.3 GALEX m(FUV)=not detected, m(NUV)=21.70; SDSS u=25.97, g=21.51, r=20.30, i=20.11, z=19.94	Reference Frame: ICRS					
<i>Comments: brightest of GALEX sources within 35 arcsec is quasar target itself; m(FUV)=not detected; m(NUV)=21.70</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(18) SDSS1316+1100	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
			0						[==>]	[1]	
	2		(18) SDSS1316+1100	ACS/SBC, ACCUM, SBC	PR130L				800 Secs		
			0						[==>]	[1]	
	3		(18) SDSS1316+1100	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0	800 Secs		
			0						[==>]	[1]	
	4		(18) SDSS1316+1100	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0	120 Secs		
			0						[==>]	[1]	
	5		(18) SDSS1316+1100	ACS/SBC, ACCUM, SBC	PR130L				480 Secs		
			0						[==>]	[1]	
	<i>Comments: exposure time may be adjusted</i>										
	6		(18) SDSS1316+1100	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
		0						[==>]	[2]		
7		(18) SDSS1316+1100	ACS/SBC, ACCUM, SBC	PR130L				800 Secs			
		0						[==>]	[2]		
8		(18) SDSS1316+1100	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0	800 Secs			
		0						[==>]	[2]		
9		(18) SDSS1316+1100	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0	120 Secs			
		0						[==>]	[2]		
10		(18) SDSS1316+1100	ACS/SBC, ACCUM, SBC	PR130L				505 Secs			
		0						[==>]	[2]		
<i>Comments: exposure time may be extended</i>											



Proposal 11982 - Visit 19 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:14 GMT 2009

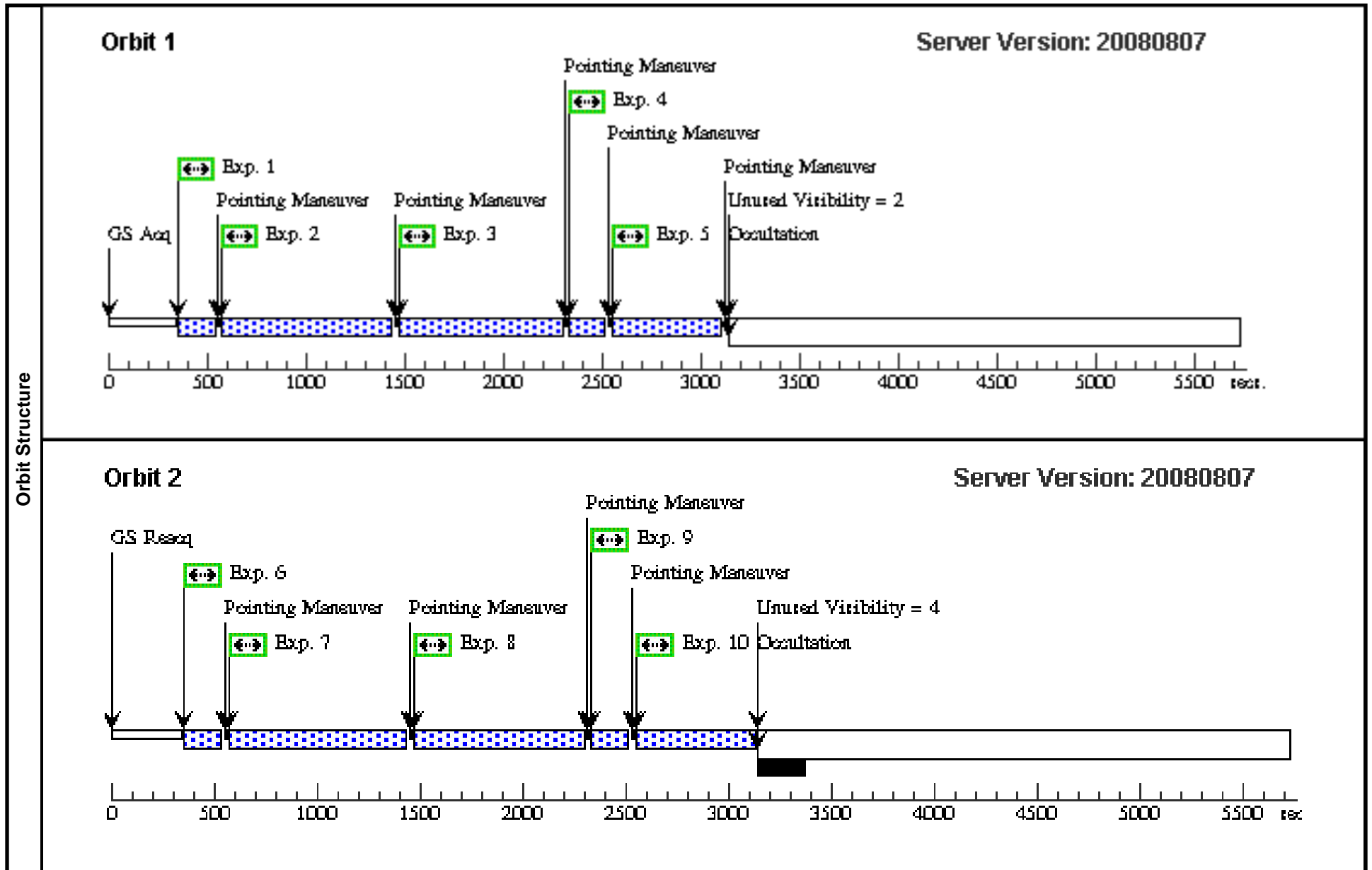
Visit	Proposal 11982, Visit 19, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC Special Requirements: (none)																											
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(19)</td> <td>SDSS1319+5202</td> <td>RA: 13 19 14.2056 (199.8091900d) Dec: +52 02 0.10 (52.03336d) Equinox: J2000</td> <td>Redshift: 3.90</td> <td>V=17.8 GALEX m(FUV)=22.3; m(NUV)=not detected; SDSS u=20.86, g=19.01, r=17.81, i=17.80, z=17.81</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"><i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=21.30; m(NUV)=21.70</i></td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(19)	SDSS1319+5202	RA: 13 19 14.2056 (199.8091900d) Dec: +52 02 0.10 (52.03336d) Equinox: J2000	Redshift: 3.90	V=17.8 GALEX m(FUV)=22.3; m(NUV)=not detected; SDSS u=20.86, g=19.01, r=17.81, i=17.80, z=17.81	Reference Frame: ICRS	<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=21.30; m(NUV)=21.70</i>				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																							
(19)	SDSS1319+5202	RA: 13 19 14.2056 (199.8091900d) Dec: +52 02 0.10 (52.03336d) Equinox: J2000	Redshift: 3.90	V=17.8 GALEX m(FUV)=22.3; m(NUV)=not detected; SDSS u=20.86, g=19.01, r=17.81, i=17.80, z=17.81	Reference Frame: ICRS																							
<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=21.30; m(NUV)=21.70</i>																												
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																		
	1		(19) SDSS1319+5202 2	ACS/SBC, ACCUM, SBC	F150LP		GS ACQ SCENARI O BASE1T3		120 Secs [==>]	[1]																		
	2		(19) SDSS1319+5202 2	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[1]																		
	3		(19) SDSS1319+5202 2	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs [==>]	[1]																		
	4		(19) SDSS1319+5202 2	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs [==>]	[1]																		
	5		(19) SDSS1319+5202 2	ACS/SBC, ACCUM, SBC	PR130L				540 Secs [==>]	[1]																		
	<i>Comments: exposure time may be adjusted</i>																											
	6		(19) SDSS1319+5202 2	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[2]																		
	7		(19) SDSS1319+5202 2	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[2]																		
	8		(19) SDSS1319+5202 2	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs [==>]	[2]																		
9		(19) SDSS1319+5202 2	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs [==>]	[2]																			
10		(19) SDSS1319+5202 2	ACS/SBC, ACCUM, SBC	PR130L				570 Secs [==>]	[2]																			
<i>Comments: exposure time may be extended</i>																												



Proposal 11982 - Visit 20 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:14 GMT 2009

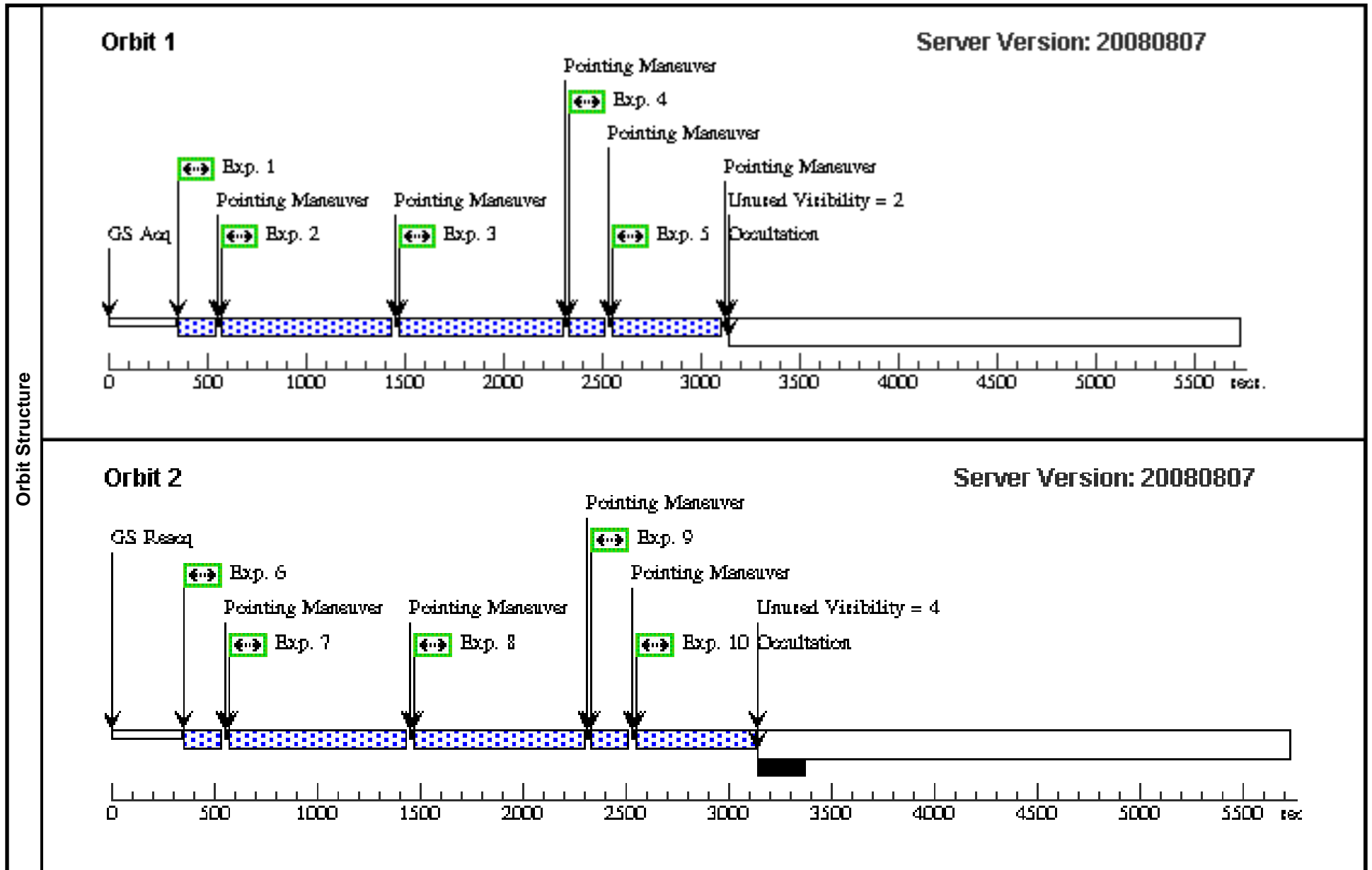
Visit		Proposal 11982, Visit 20, implementation									
Visit		Diagnostic Status: No Diagnostics									
Visit		Scientific Instruments: ACS/SBC									
Visit		Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(20)	SDSS1330+2613	RA: 13 30 19.1448 (202.5797700d) Dec: +26 13 37.73 (26.22715d) Equinox: J2000	Redshift: 3.24	V=19.5 GALEX m(FUV)=21.73, m(NUV)=22.56; SDSS u=21.91, g=19.82, r=19.47, i=19.42, z=19.48	Reference Frame: ICRS					
<i>Comments: brightest of GALEX sources within 35 arcsec is quasar target itself; m(FUV)=21.73; m(NUV)=22.56</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	(20) SDSS1330+2613	ACS/SBC, ACCUM, SBC	F150LP					120 Secs [==>]	[1]	
	2	(20) SDSS1330+2613	ACS/SBC, ACCUM, SBC	PR130L					800 Secs [==>]	[1]	
	3	(20) SDSS1330+2613	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0		800 Secs [==>]	[1]	
	4	(20) SDSS1330+2613	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0		120 Secs [==>]	[1]	
	5	(20) SDSS1330+2613	ACS/SBC, ACCUM, SBC	PR130L					490 Secs [==>]	[1]	
	<i>Comments: exposure time may be adjusted</i>										
	6	(20) SDSS1330+2613	ACS/SBC, ACCUM, SBC	F150LP					120 Secs [==>]	[2]	
	7	(20) SDSS1330+2613	ACS/SBC, ACCUM, SBC	PR130L					800 Secs [==>]	[2]	
	8	(20) SDSS1330+2613	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0		800 Secs [==>]	[2]	
	9	(20) SDSS1330+2613	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0		120 Secs [==>]	[2]	
10	(20) SDSS1330+2613	ACS/SBC, ACCUM, SBC	PR130L					515 Secs [==>]	[2]		
<i>Comments: exposure time may be extended</i>											



Proposal 11982 - Visit 21 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:15 GMT 2009

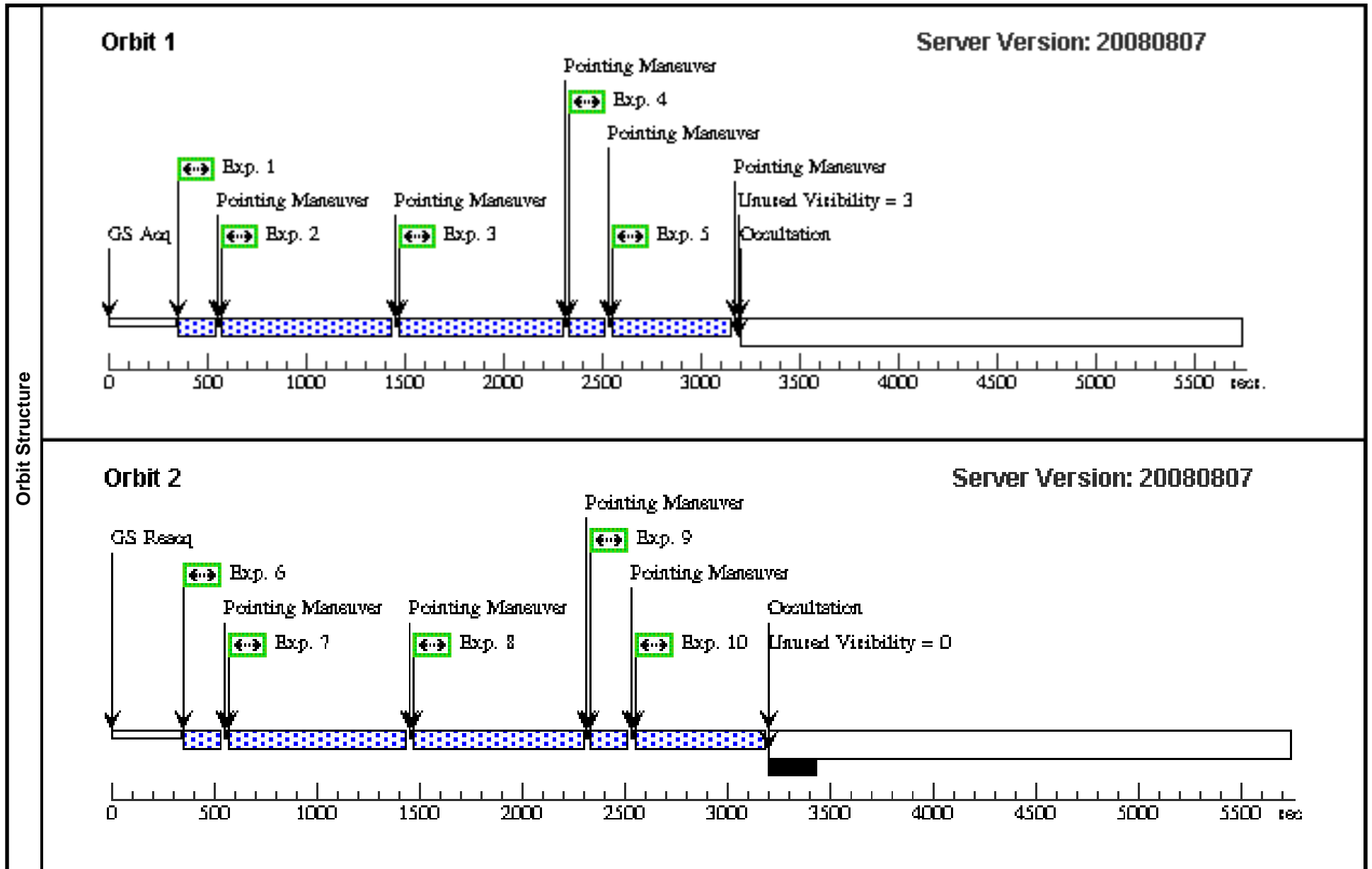
Visit	Proposal 11982, Visit 21, implementation									
		Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC Special Requirements: (none)								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(21)	SDSS1330+2813	RA: 13 30 22.7664 (202.5948600d) Dec: +28 13 33.17 (28.22588d) Equinox: J2000	Redshift: 3.32	V=19.5 GALEX m(FUV)=22.12, m(NUV)=not detected; SDSS u= 21.48, g=19.77, r=19.47, i=19.53, z=19.46	Reference Frame: ICRS				
	<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=22.12; m(NUV)=21.70</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(21) SDSS1330+2813	ACS/SBC, ACCUM, SBC	F150LP				120 Secs	
			3						[==>]	[1]
	2		(21) SDSS1330+2813	ACS/SBC, ACCUM, SBC	PR130L				800 Secs	
			3						[==>]	[1]
	3		(21) SDSS1330+2813	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs	
			3						[==>]	[1]
	4		(21) SDSS1330+2813	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs	
			3						[==>]	[1]
	5		(21) SDSS1330+2813	ACS/SBC, ACCUM, SBC	PR130L				490 Secs	
		3						[==>]	[1]	
	<i>Comments: exposure time may be adjusted</i>									
6		(21) SDSS1330+2813	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
		3						[==>]	[2]	
7		(21) SDSS1330+2813	ACS/SBC, ACCUM, SBC	PR130L				800 Secs		
		3						[==>]	[2]	
8		(21) SDSS1330+2813	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs		
		3						[==>]	[2]	
9		(21) SDSS1330+2813	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs		
		3						[==>]	[2]	
10		(21) SDSS1330+2813	ACS/SBC, ACCUM, SBC	PR130L				515 Secs		
		3						[==>]	[2]	
	<i>Comments: exposure time may be extended</i>									



Proposal 11982 - Visit 22 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:15 GMT 2009

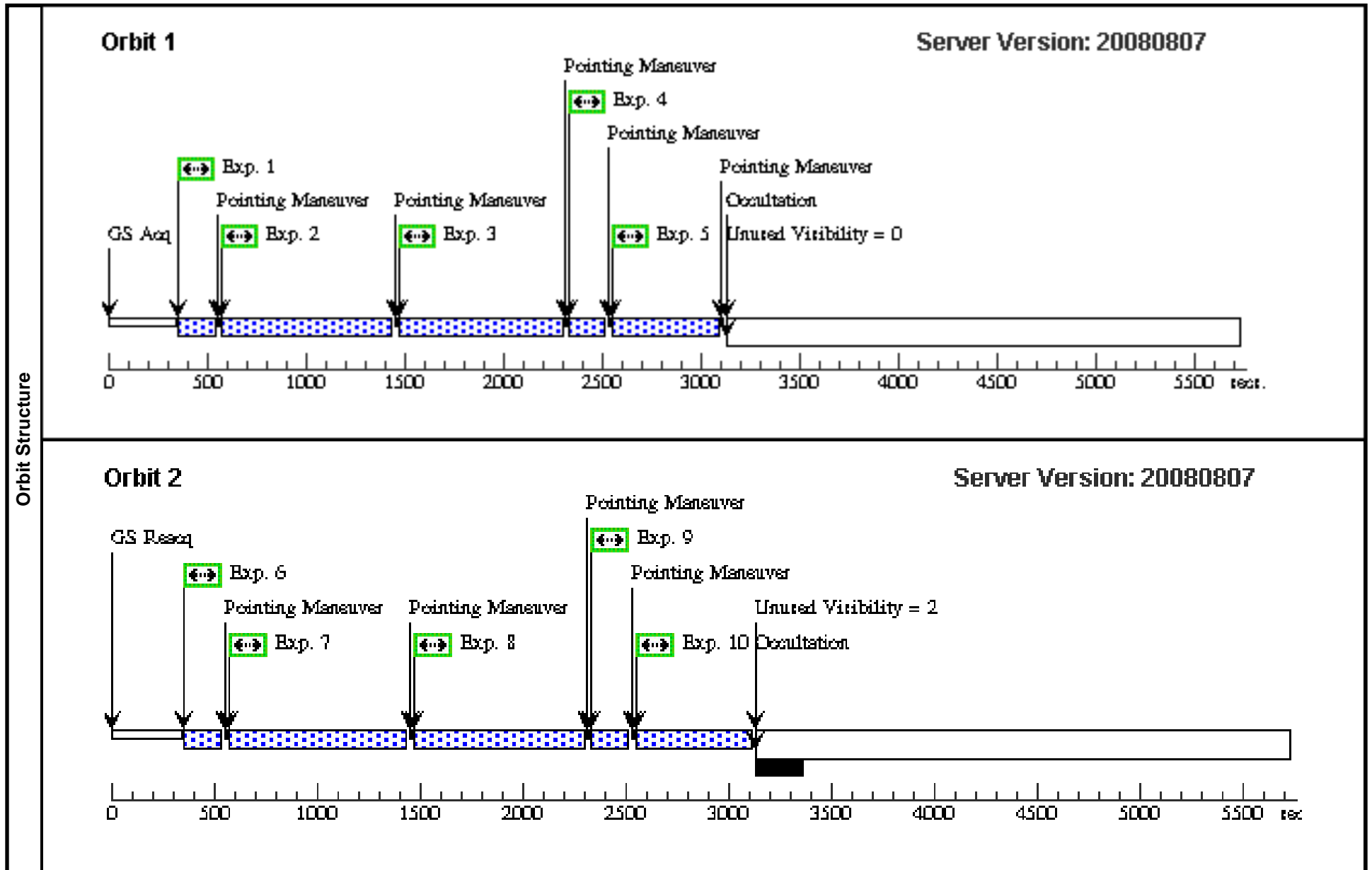
Visit		Proposal 11982, Visit 22, implementation									
Visit		Diagnostic Status: No Diagnostics									
Visit		Scientific Instruments: ACS/SBC									
Visit		Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(22)	SDSS1334+5213	RA: 13 34 48.7056 (203.7029400d) Dec: +52 13 17.99 (52.22166d) Equinox: J2000	Redshift: 3.61	V=18.8 GALEX m(FUV)=not detected, m(NUV)=22.49; SDSS u=23.12, g=19.78, r=18.75, i=18.69, z=18.62	Reference Frame: ICRS					
<i>Comments: brightest GALEX source within 35 arcsec; m(FUV)=22.51; m(NUV)=21.74</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(22) SDSS1334+5213	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
			3						[==>]	[1]	
	2		(22) SDSS1334+5213	ACS/SBC, ACCUM, SBC	PR130L				800 Secs		
			3						[==>]	[1]	
	3		(22) SDSS1334+5213	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs		
			3						[==>]	[1]	
	4		(22) SDSS1334+5213	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs		
			3						[==>]	[1]	
	5		(22) SDSS1334+5213	ACS/SBC, ACCUM, SBC	PR130L				540 Secs		
			3						[==>]	[1]	
	<i>Comments: exposure time may be adjusted</i>										
	6		(22) SDSS1334+5213	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
		3						[==>]	[2]		
7		(22) SDSS1334+5213	ACS/SBC, ACCUM, SBC	PR130L				800 Secs			
		3						[==>]	[2]		
8		(22) SDSS1334+5213	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs			
		3						[==>]	[2]		
9		(22) SDSS1334+5213	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs			
		3						[==>]	[2]		
10		(22) SDSS1334+5213	ACS/SBC, ACCUM, SBC	PR130L				570 Secs			
		3						[==>]	[2]		
<i>Comments: exposure time may be extended</i>											



Proposal 11982 - Visit 23 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:16 GMT 2009

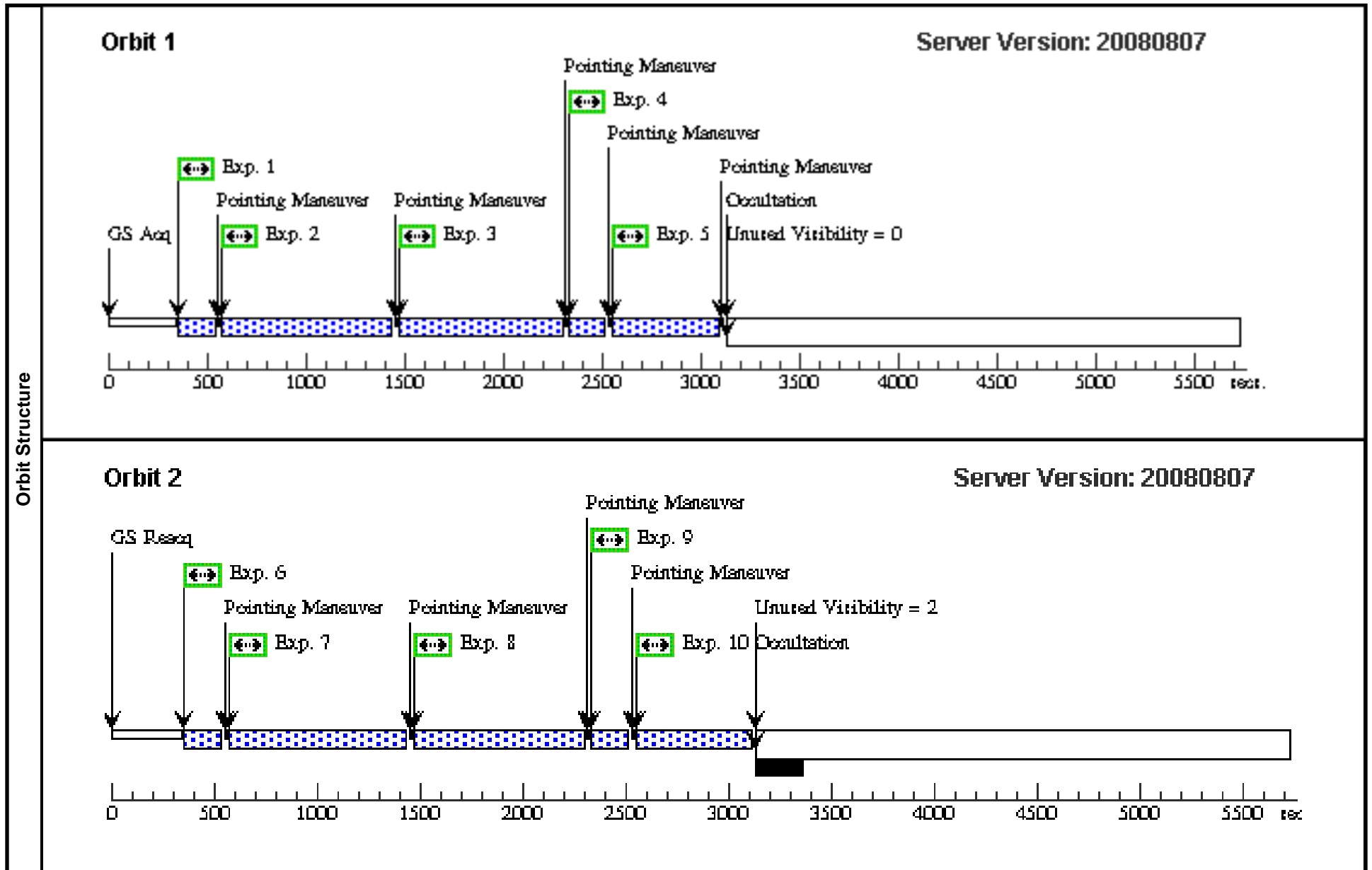
Visit		Proposal 11982, Visit 23, implementation								
Fixed Targets		Diagnostic Status: No Diagnostics								
		Scientific Instruments: ACS/SBC Special Requirements: (none)								
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
(23)	SDSS1339+0703	RA: 13 39 51.8470 (204.9660292d) Dec: +07 03 5.23 (7.05145d) Equinox: J2000	Redshift: 3.44	V=20.3 GALEX m(FUV)=22.25, m(NUV)=not detected; SDSS u=24.94, g=21.11, r=20.29, i=20.13, z=20.17	Reference Frame: ICRS					
<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=22.25; m(NUV)=21.92</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(23) SDSS1339+0703	ACS/SBC, ACCUM, SBC	F150LP				120 Secs	
									[==>]	[1]
	2		(23) SDSS1339+0703	ACS/SBC, ACCUM, SBC	PR130L				800 Secs	
									[==>]	[1]
	3		(23) SDSS1339+0703	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs	
									[==>]	[1]
	4		(23) SDSS1339+0703	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs	
									[==>]	[1]
	5		(23) SDSS1339+0703	ACS/SBC, ACCUM, SBC	PR130L				475 Secs	
								[==>]	[1]	
<i>Comments: exposure time may be adjusted</i>										
6		(23) SDSS1339+0703	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
								[==>]	[2]	
7		(23) SDSS1339+0703	ACS/SBC, ACCUM, SBC	PR130L				800 Secs		
								[==>]	[2]	
8		(23) SDSS1339+0703	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs		
								[==>]	[2]	
9		(23) SDSS1339+0703	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs		
								[==>]	[2]	
10		(23) SDSS1339+0703	ACS/SBC, ACCUM, SBC	PR130L				500 Secs		
								[==>]	[2]	
<i>Comments: exposure time may be extended</i>										



Proposal 11982 - Visit 24 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:16 GMT 2009

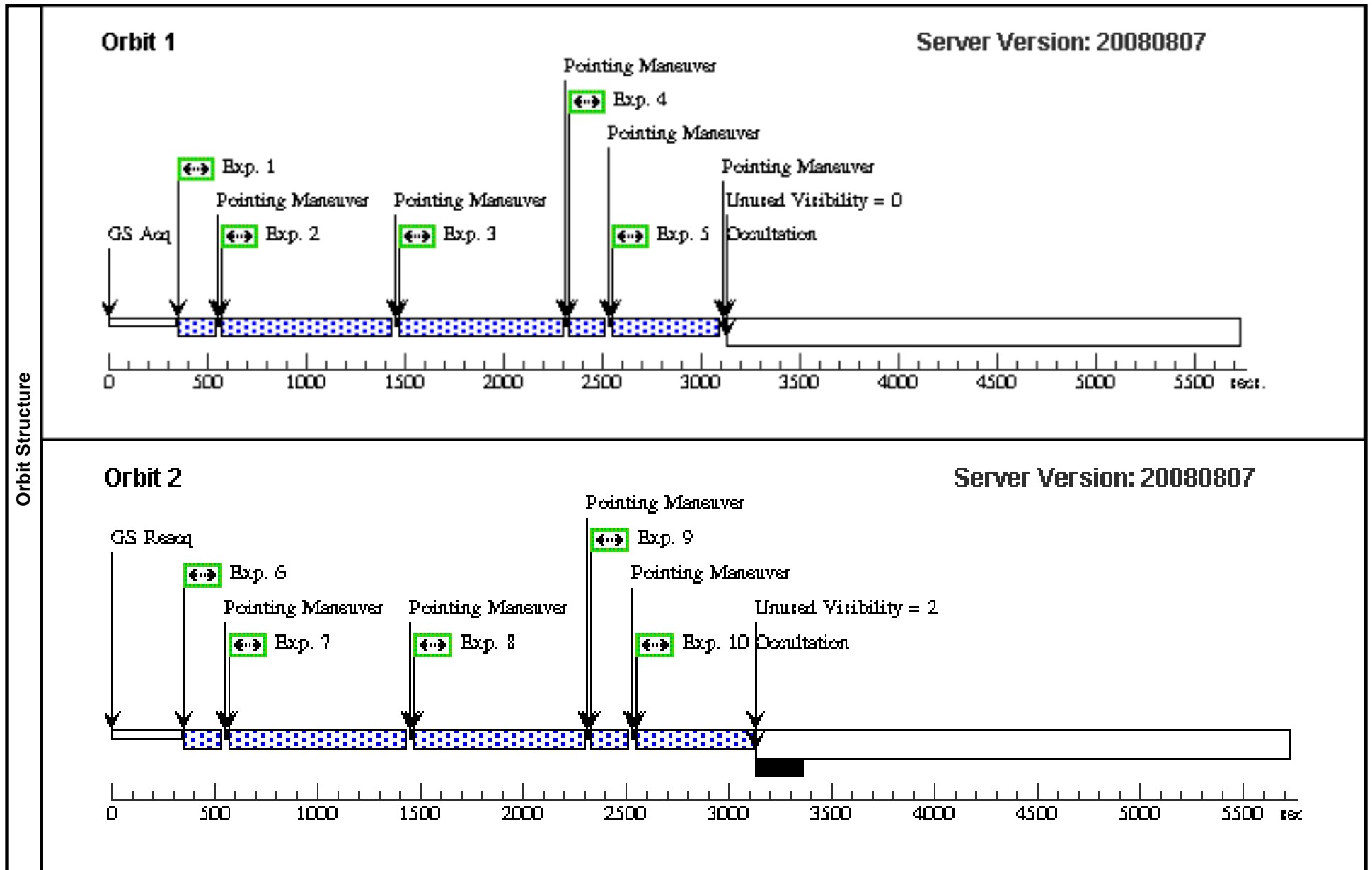
Visit		Proposal 11982, Visit 24, implementation								
Fixed Targets		Diagnostic Status: No Diagnostics								
		Scientific Instruments: ACS/SBC Special Requirements: (none)								
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
(24)	SDSS1341+0756	RA: 13 41 42.0432 (205.4251800d) Dec: +07 56 39.16 (7.94421d) Equinox: J2000	Redshift: 3.30	V=18.7 GALEX m(FUV)=not detected, m(NUV)=21.72; SDSS u=20.98, g=19.04, r=18.73, i=18.67, z=18.69	Reference Frame: ICRS					
<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=no detections; m(NUV)=21.52</i>										
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
1	(24) SDSS1341+0756	(24) SDSS1341+0756	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
								[==>]	[1]	
2	(24) SDSS1341+0756	(24) SDSS1341+0756	ACS/SBC, ACCUM, SBC	PR130L				800 Secs		
								[==>]	[1]	
3	(24) SDSS1341+0756	(24) SDSS1341+0756	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs		
								[==>]	[1]	
4	(24) SDSS1341+0756	(24) SDSS1341+0756	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs		
								[==>]	[1]	
5	(24) SDSS1341+0756	(24) SDSS1341+0756	ACS/SBC, ACCUM, SBC	PR130L				475 Secs		
								[==>]	[1]	
<i>Comments: exposure time may be adjusted</i>										
6	(24) SDSS1341+0756	(24) SDSS1341+0756	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
								[==>]	[2]	
7	(24) SDSS1341+0756	(24) SDSS1341+0756	ACS/SBC, ACCUM, SBC	PR130L				800 Secs		
								[==>]	[2]	
8	(24) SDSS1341+0756	(24) SDSS1341+0756	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs		
								[==>]	[2]	
9	(24) SDSS1341+0756	(24) SDSS1341+0756	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs		
								[==>]	[2]	
10	(24) SDSS1341+0756	(24) SDSS1341+0756	ACS/SBC, ACCUM, SBC	PR130L				500 Secs		
								[==>]	[2]	
<i>Comments: exposure time may be extended</i>										



Proposal 11982 - Visit 25 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:17 GMT 2009

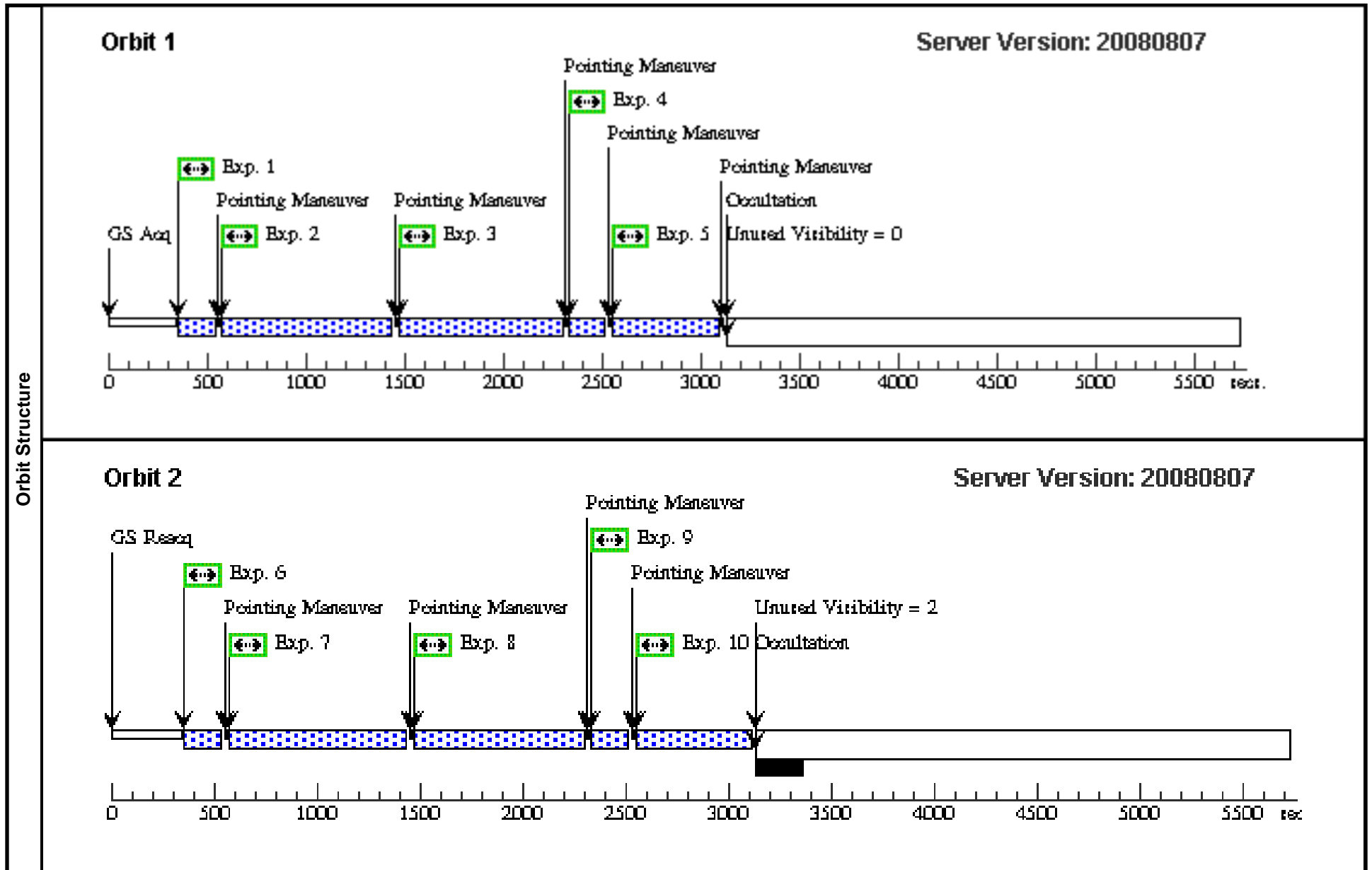
Visit		Proposal 11982, Visit 25, implementation								
		Diagnostic Status: No Diagnostics								
		Scientific Instruments: ACS/SBC								
		Special Requirements: (none)								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(25)	SDSS1352+1251	RA: 13 52 49.7640 (208.2073500d) Dec: +12 51 37.09 (12.86030d) Equinox: J2000	Redshift: 3.27	V=18.8 GALEX m(FUV)=21.72, m(NUV)=not detected; SDSS u= 21.35, g=19.12, r=18.82, i=18.71, z=18.70	Reference Frame: ICRS				
<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=21.72; m(NUV)=22.17</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(25) SDSS1352+1251	ACS/SBC, ACCUM, SBC	F150LP				120 Secs	
			1						[==>]	[1]
	2		(25) SDSS1352+1251	ACS/SBC, ACCUM, SBC	PR130L				800 Secs	
			1						[==>]	[1]
	3		(25) SDSS1352+1251	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs	
			1						[==>]	[1]
	4		(25) SDSS1352+1251	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs	
			1						[==>]	[1]
	5		(25) SDSS1352+1251	ACS/SBC, ACCUM, SBC	PR130L				480 Secs	
			1						[==>]	[1]
<i>Comments: exposure time may be adjusted</i>										
6		(25) SDSS1352+1251	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
		1						[==>]	[2]	
7		(25) SDSS1352+1251	ACS/SBC, ACCUM, SBC	PR130L				800 Secs		
		1						[==>]	[2]	
8		(25) SDSS1352+1251	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs		
		1						[==>]	[2]	
9		(25) SDSS1352+1251	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs		
		1						[==>]	[2]	
10		(25) SDSS1352+1251	ACS/SBC, ACCUM, SBC	PR130L				505 Secs		
		1						[==>]	[2]	
<i>Comments: exposure time may be extended</i>										



Proposal 11982 - Visit 26 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:17 GMT 2009

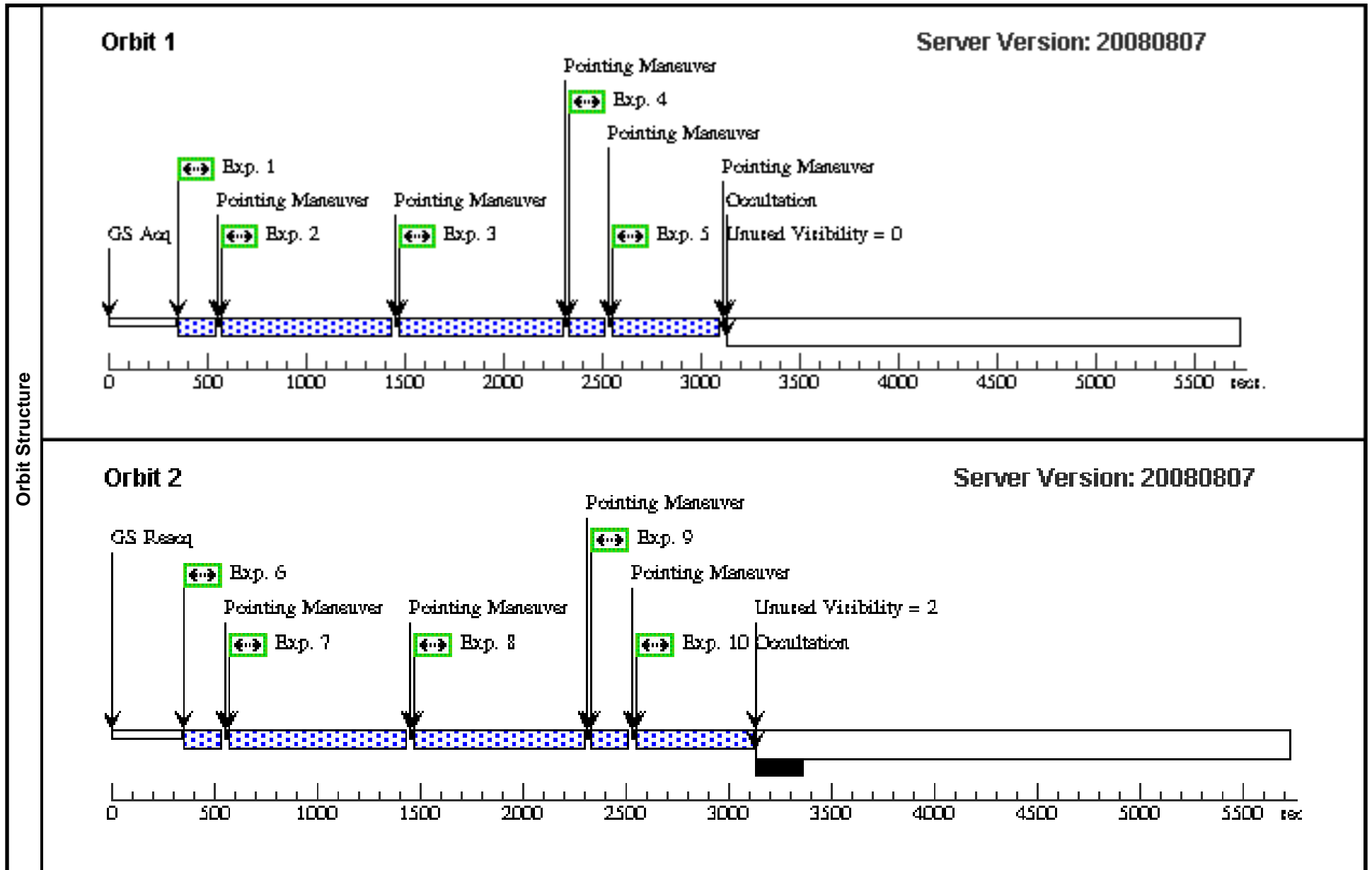
Visit		Proposal 11982, Visit 26, implementation								
Visit		Diagnostic Status: No Diagnostics								
Visit		Scientific Instruments: ACS/SBC								
Visit		Special Requirements: (none)								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(26)	Q1401+0248	RA: 14 01 49.8850 (210.4578542d) Dec: +02 48 36.60 (2.81017d) Equinox: J2000	Redshift: 3.83	V=21.4 GALEX m(FUV)=not detected, m(NUV)=22.84: SDSS u=21.92, g=21.92, r=21.40, i=21.18, z=20.53	Reference Frame: ICRS				
<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=23.56; m(NUV)=22.84</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(26) Q1401+0248	ACS/SBC, ACCUM, SBC	F150LP					120 Secs [==>]	[1]
	2	(26) Q1401+0248	ACS/SBC, ACCUM, SBC	PR130L					800 Secs [==>]	[1]
	3	(26) Q1401+0248	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0		800 Secs [==>]	[1]
	4	(26) Q1401+0248	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0		120 Secs [==>]	[1]
	5	(26) Q1401+0248	ACS/SBC, ACCUM, SBC	PR130L					475 Secs [==>]	[1]
	<i>Comments: exposure time may be adjusted</i>									
	6	(26) Q1401+0248	ACS/SBC, ACCUM, SBC	F150LP					120 Secs [==>]	[2]
	7	(26) Q1401+0248	ACS/SBC, ACCUM, SBC	PR130L					800 Secs [==>]	[2]
	8	(26) Q1401+0248	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0		800 Secs [==>]	[2]
	9	(26) Q1401+0248	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0		120 Secs [==>]	[2]
	10	(26) Q1401+0248	ACS/SBC, ACCUM, SBC	PR130L					500 Secs [==>]	[2]
	<i>Comments: exposure time may be extended</i>									



Proposal 11982 - Visit 27 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:18 GMT 2009

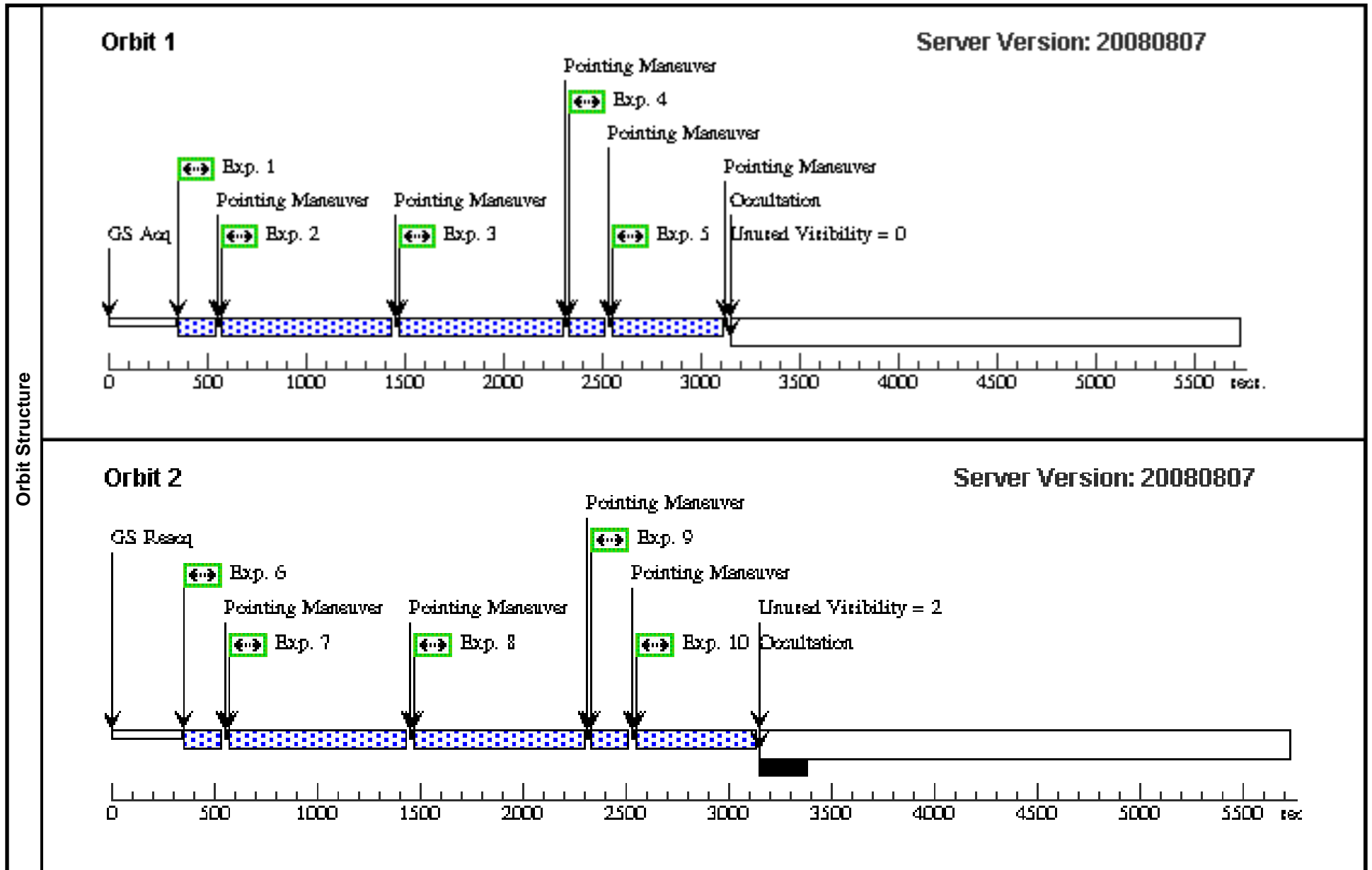
Visit	Proposal 11982, Visit 27, implementation									
	Diagnostic Status: No Diagnostics									
Scientific Instruments: ACS/SBC										
Special Requirements: (none)										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(27)	SDSS1423+1303	RA: 14 23 25.9224 (215.8580100d) Dec: +13 03 0.69 (13.05019d) Equinox: J2000	Redshift: 5.04	V=21.2 GALEX m(FUV)=21.96, m(NUV)=not detected; SDSS u= 24.38, g=25.75, r=21.21, i=19.69, z=19.42	Reference Frame: ICRS				
<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=21.96; m(NUV)=21.97</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(27) SDSS1423+1303	ACS/SBC, ACCUM, SBC	F150LP				120 Secs	
		3							[==>]	[1]
	2		(27) SDSS1423+1303	ACS/SBC, ACCUM, SBC	PR130L				800 Secs	
		3							[==>]	[1]
	3		(27) SDSS1423+1303	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0	800 Secs	
		3							[==>]	[1]
	4		(27) SDSS1423+1303	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0	120 Secs	
		3							[==>]	[1]
	5		(27) SDSS1423+1303	ACS/SBC, ACCUM, SBC	PR130L				480 Secs	
	3							[==>]	[1]	
<i>Comments: exposure time may be adjusted</i>										
6		(27) SDSS1423+1303	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
	3							[==>]	[2]	
7		(27) SDSS1423+1303	ACS/SBC, ACCUM, SBC	PR130L				800 Secs		
	3							[==>]	[2]	
8		(27) SDSS1423+1303	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0	800 Secs		
	3							[==>]	[2]	
9		(27) SDSS1423+1303	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0	120 Secs		
	3							[==>]	[2]	
10		(27) SDSS1423+1303	ACS/SBC, ACCUM, SBC	PR130L				505 Secs		
	3							[==>]	[2]	
<i>Comments: exposure time may be extended</i>										



Proposal 11982 - Visit 28 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:19 GMT 2009

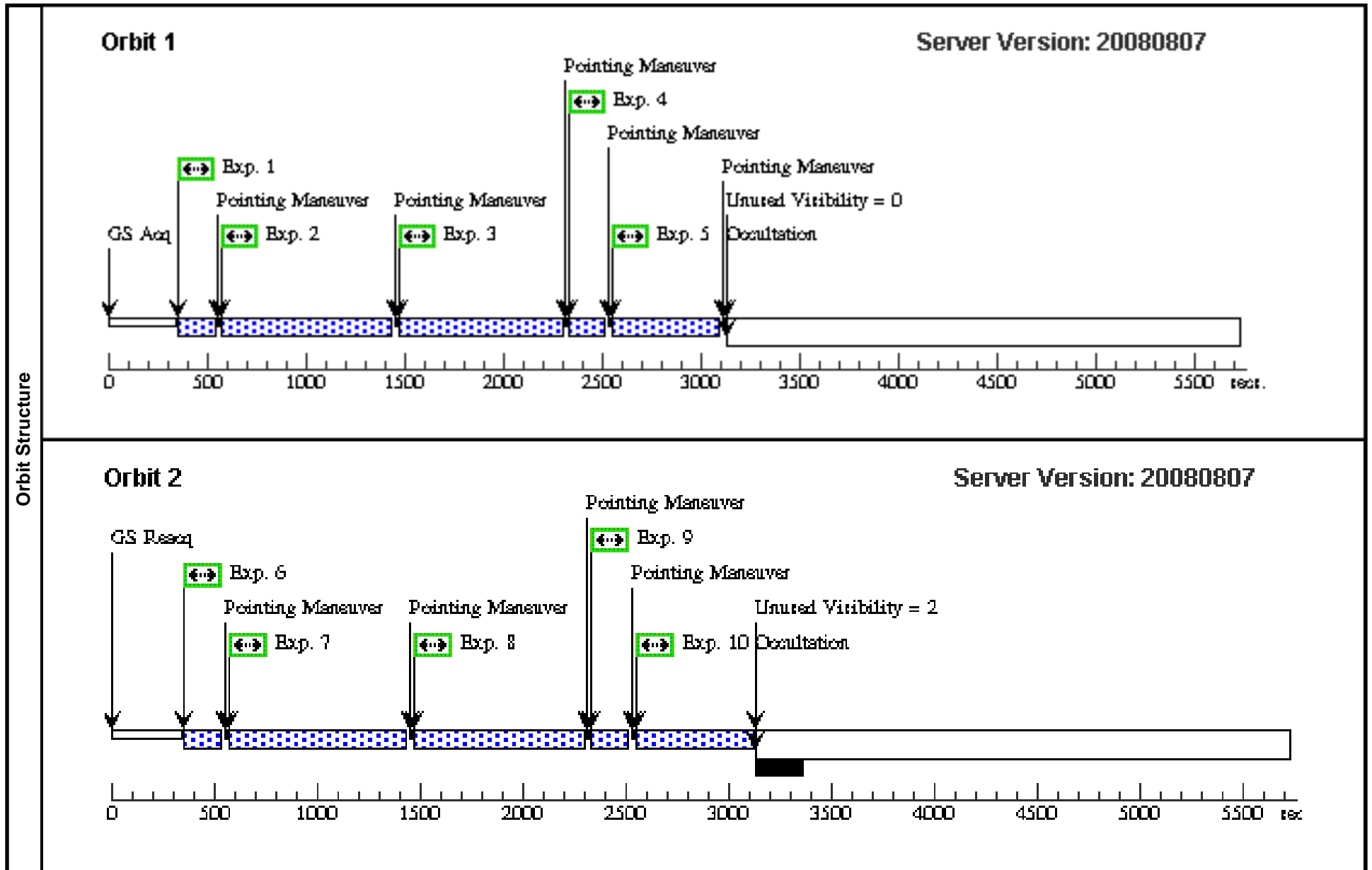
Visit		Proposal 11982, Visit 28, implementation								
Fixed Targets		Diagnostic Status: No Diagnostics								
		Scientific Instruments: ACS/SBC								
		Special Requirements: (none)								
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
(28)	SDSS1427+3308	RA: 14 27 5.8632 (216.7744300d) Dec: +33 08 17.97 (33.13832d) Equinox: J2000	Redshift: 4.72	V=20.4 GALEX m(FUV)=not detected, m(NUV)=23.36; SDSS u=25.27, g=23.10, r=20.41, i=18.84, z=18.69	Reference Frame: ICRS					
<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=no detections; m(NUV)=22.28</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(28) SDSS1427+3308	ACS/SBC, ACCUM, SBC	F150LP				120 Secs	
									[==>]	[1]
	2		(28) SDSS1427+3308	ACS/SBC, ACCUM, SBC	PR130L				800 Secs	
									[==>]	[1]
	3		(28) SDSS1427+3308	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs	
									[==>]	[1]
	4		(28) SDSS1427+3308	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs	
									[==>]	[1]
	5		(28) SDSS1427+3308	ACS/SBC, ACCUM, SBC	PR130L				495 Secs	
									[==>]	[1]
<i>Comments: exposure time may be adjusted</i>										
6		(28) SDSS1427+3308	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
								[==>]	[2]	
7		(28) SDSS1427+3308	ACS/SBC, ACCUM, SBC	PR130L				800 Secs		
								[==>]	[2]	
8		(28) SDSS1427+3308	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs		
								[==>]	[2]	
9		(28) SDSS1427+3308	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs		
								[==>]	[2]	
10		(28) SDSS1427+3308	ACS/SBC, ACCUM, SBC	PR130L				520 Secs		
								[==>]	[2]	
<i>Comments: exposure time may be extended</i>										



Proposal 11982 - Visit 29 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:19 GMT 2009

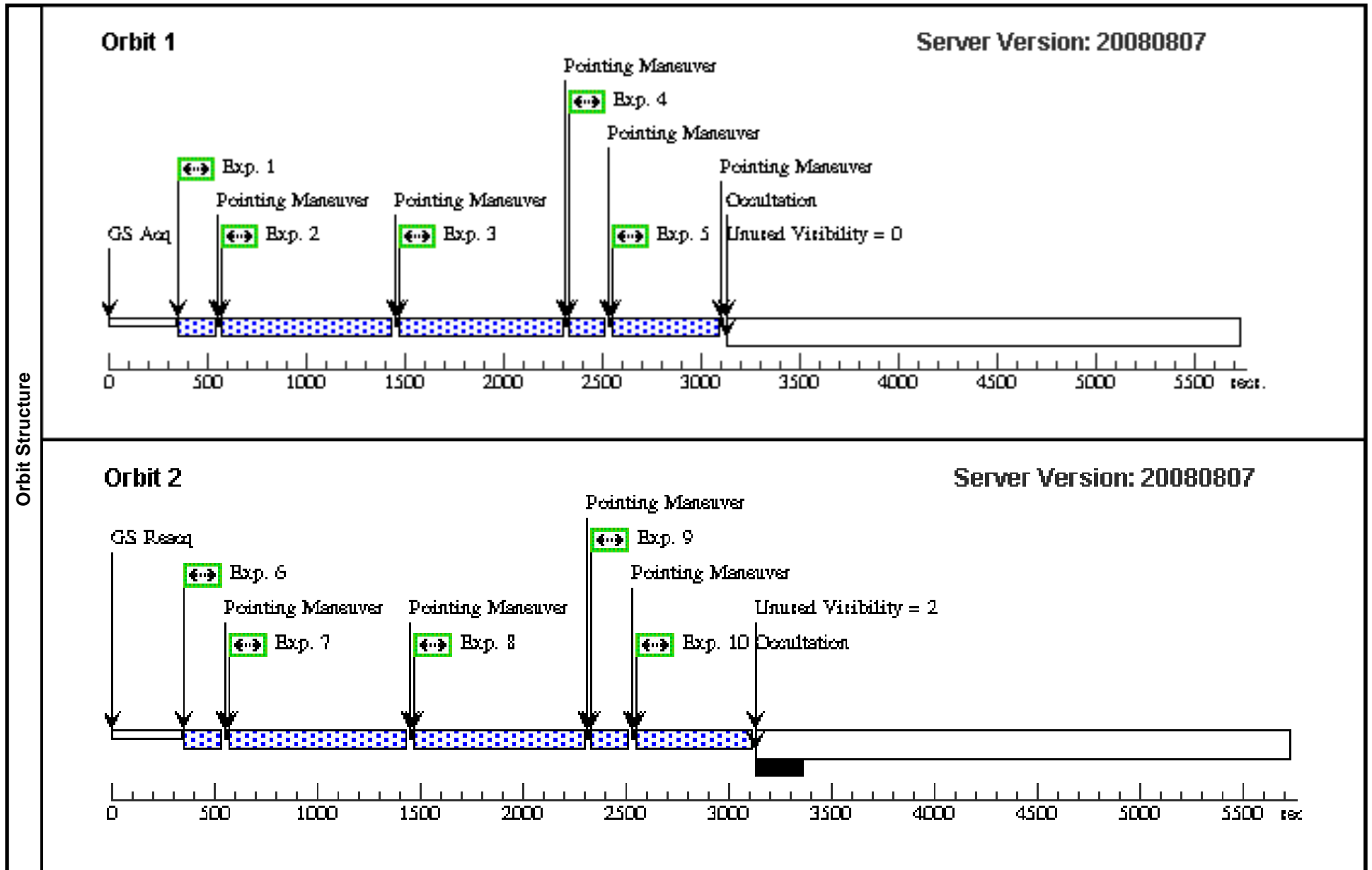
Visit		Proposal 11982, Visit 29, implementation									
		Diagnostic Status: No Diagnostics									
		Scientific Instruments: ACS/SBC									
		Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(29)	SDSS1444+1055	RA: 14 44 36.6864 (221.1528600d) Dec: +10 55 49.87 (10.93052d) Equinox: J2000	Redshift: 3.24	V=20.2 GALEX m(FUV)=21.81, m(NUV)=not detected; SDSS u= 25.23, g=20.43, r=20.19, i=19.98, z=20.20	Reference Frame: ICRS					
<i>Comments: brightest GALEX source within 35 arcsec: m(FUV)=21.81; m(NUV)=21.38</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(29) SDSS1444+105 5	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[1]	
	2		(29) SDSS1444+105 5	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[1]	
	3		(29) SDSS1444+105 5	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs [==>]	[1]	
	4		(29) SDSS1444+105 5	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs [==>]	[1]	
	5		(29) SDSS1444+105 5	ACS/SBC, ACCUM, SBC	PR130L				480 Secs [==>]	[1]	
	<i>Comments: exposure time may be adjusted</i>										
	6		(29) SDSS1444+105 5	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[2]	
	7		(29) SDSS1444+105 5	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[2]	
	8		(29) SDSS1444+105 5	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs [==>]	[2]	
	9		(29) SDSS1444+105 5	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs [==>]	[2]	
10		(29) SDSS1444+105 5	ACS/SBC, ACCUM, SBC	PR130L				505 Secs [==>]	[2]		
<i>Comments: exposure time may be extended</i>											



Proposal 11982 - Visit 30 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:19 GMT 2009

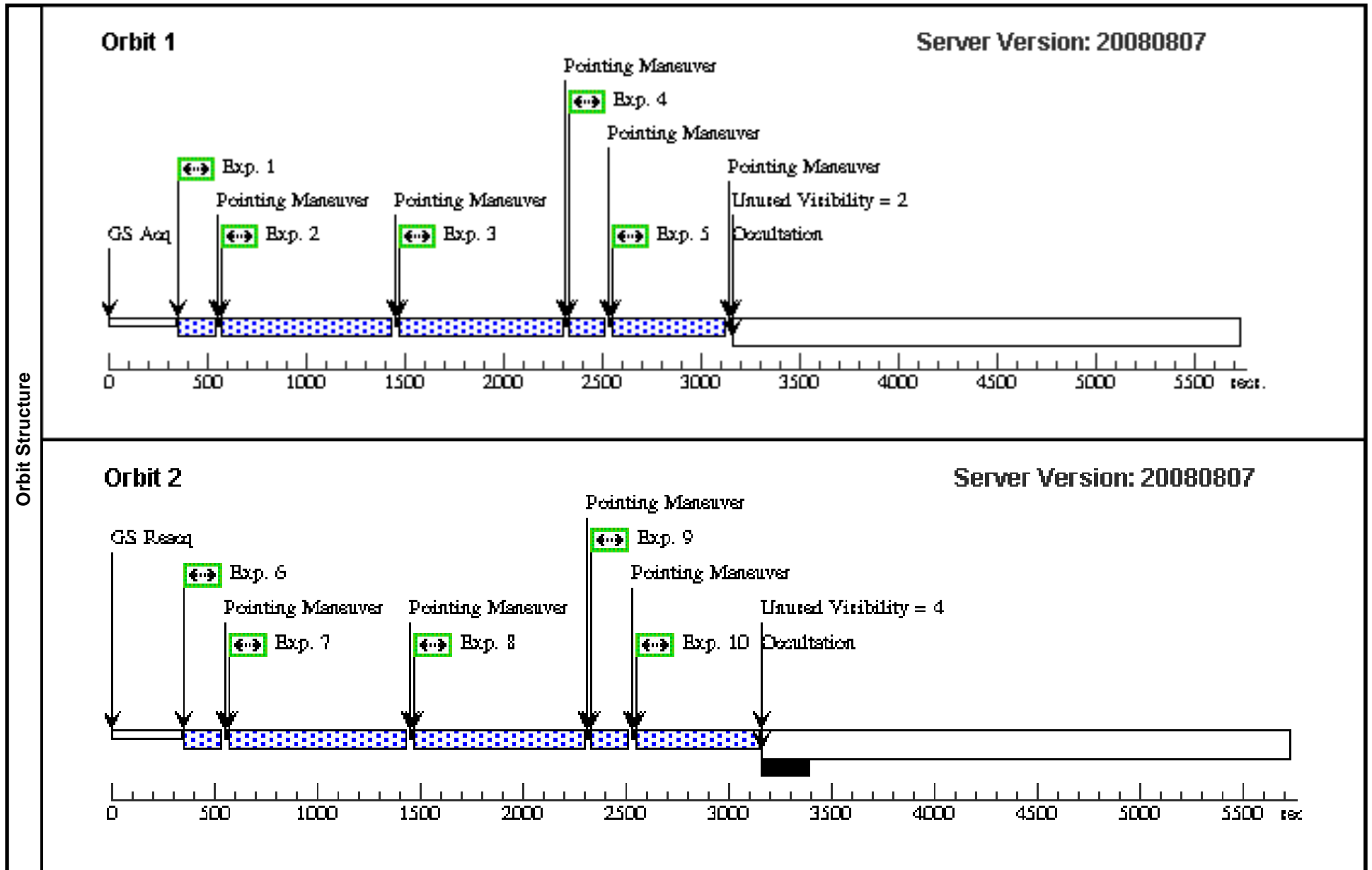
Visit		Proposal 11982, Visit 30, implementation								
		Diagnostic Status: No Diagnostics								
		Scientific Instruments: ACS/SBC								
		Special Requirements: (none)								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(30)	SDSS1445+0958	RA: 14 45 16.4664 (221.3186100d) Dec: +09 58 36.12 (9.97670d) Equinox: J2000	Redshift: 3.53	V=17.9 GALEX m(FUV)=21.00, m(NUV)=20.30; SDSS u=19.52, g=18.61, r=17.92, i=17.88, z=17.79	Reference Frame: ICRS				
<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=21.00; m(NUV)=19.50</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(30) SDSS1445+0958	ACS/SBC, ACCUM, SBC	F150LP				120 Secs	
									[==>]	[1]
	2		(30) SDSS1445+0958	ACS/SBC, ACCUM, SBC	PR130L				800 Secs	
									[==>]	[1]
	3		(30) SDSS1445+0958	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs	
									[==>]	[1]
	4		(30) SDSS1445+0958	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs	
									[==>]	[1]
	5		(30) SDSS1445+0958	ACS/SBC, ACCUM, SBC	PR130L				475 Secs	
									[==>]	[1]
	<i>Comments: exposure time may be adjusted</i>									
6		(30) SDSS1445+0958	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
								[==>]	[2]	
7		(30) SDSS1445+0958	ACS/SBC, ACCUM, SBC	PR130L				800 Secs		
								[==>]	[2]	
8		(30) SDSS1445+0958	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs		
								[==>]	[2]	
9		(30) SDSS1445+0958	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs		
								[==>]	[2]	
10		(30) SDSS1445+0958	ACS/SBC, ACCUM, SBC	PR130L				500 Secs		
								[==>]	[2]	
<i>Comments: exposure time may be extended</i>										



Proposal 11982 - Visit 31 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:20 GMT 2009

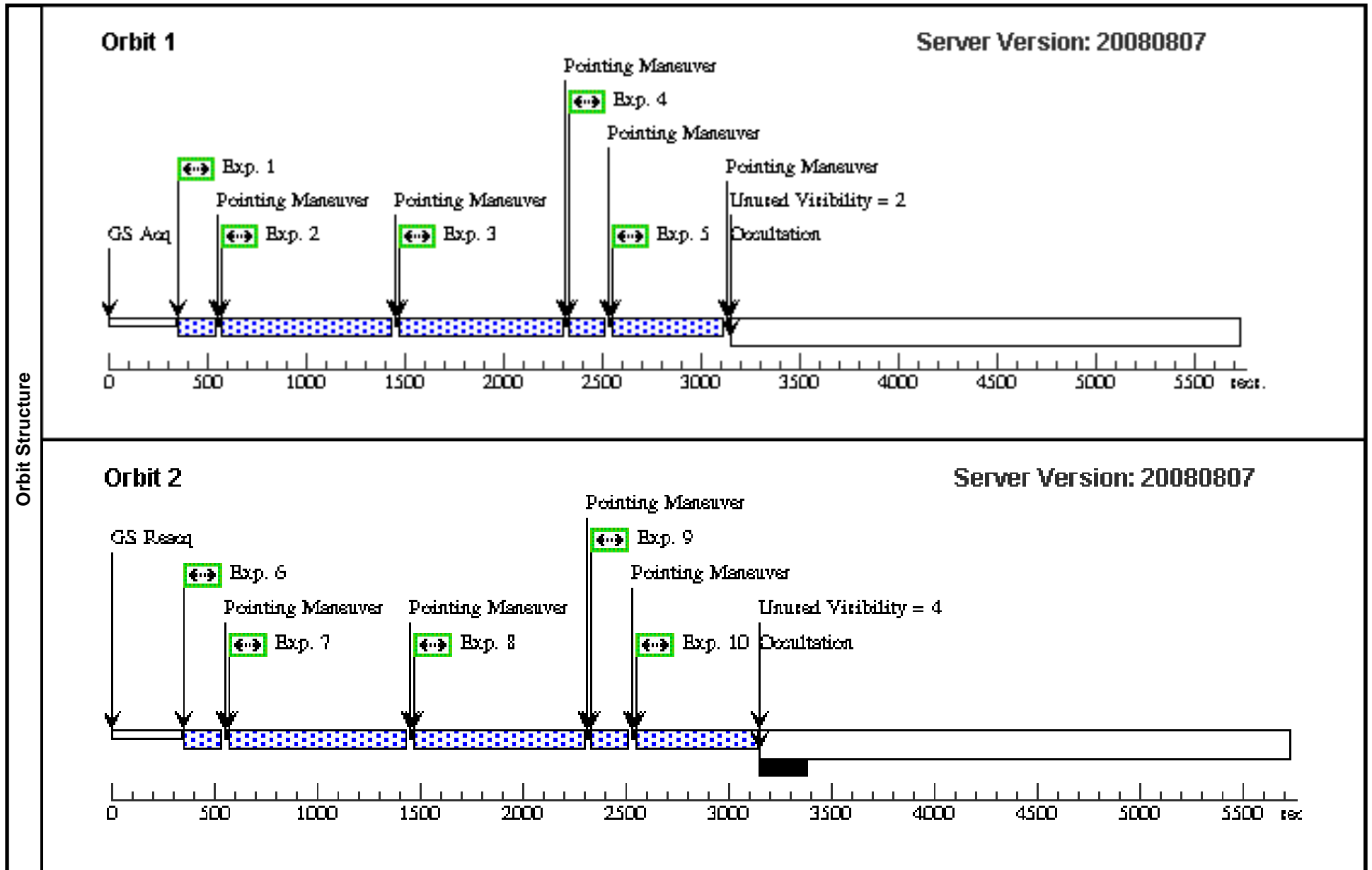
Visit		Proposal 11982, Visit 31, implementation									
Visit		Diagnostic Status: No Diagnostics									
Visit		Scientific Instruments: ACS/SBC									
Visit		Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(31)	SDSS1446+4343	RA: 14 46 23.0088 (221.5958700d) Dec: +43 43 8.73 (43.71909d) Equinox: J2000	Redshift: 3.17	V=19.1 GALEX m(FUV)=21.86, m(NUV)=22.45; SDSS u=20.77, g=19.38, r=19.14, i=19.03, z=19.02	Reference Frame: ICRS					
<i>Comments: brightest of GALEX sources within 35 arcsec is quasar/target itself; m(FUV)=21.86; m(NUV)=22.45</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(31) SDSS1446+434 3	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[1]	
	2		(31) SDSS1446+434 3	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[1]	
	3		(31) SDSS1446+434 3	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs [==>]	[1]	
	4		(31) SDSS1446+434 3	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs [==>]	[1]	
	5		(31) SDSS1446+434 3	ACS/SBC, ACCUM, SBC	PR130L				510 Secs [==>]	[1]	
	<i>Comments: exposure time may be adjusted</i>										
	6		(31) SDSS1446+434 3	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[2]	
	7		(31) SDSS1446+434 3	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[2]	
	8		(31) SDSS1446+434 3	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs [==>]	[2]	
	9		(31) SDSS1446+434 3	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs [==>]	[2]	
	10		(31) SDSS1446+434 3	ACS/SBC, ACCUM, SBC	PR130L				535 Secs [==>]	[2]	
	<i>Comments: exposure time may be extended</i>										



Proposal 11982 - Visit 32 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:20 GMT 2009

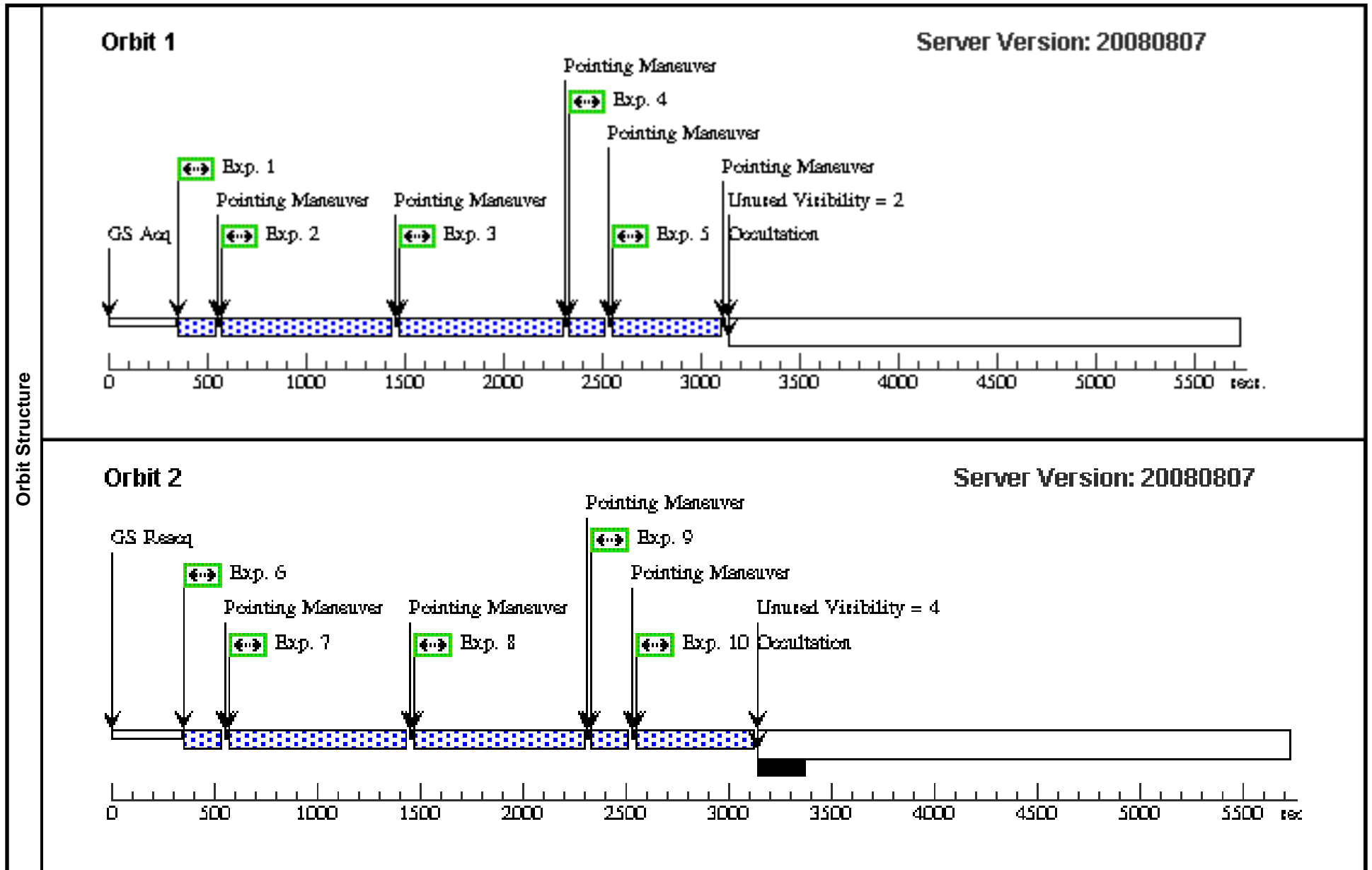
Visit		Proposal 11982, Visit 32, implementation								
Fixed Targets		Diagnostic Status: No Diagnostics								
		Scientific Instruments: ACS/SBC Special Requirements: (none)								
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
(32)	SDSS1454+3741	RA: 14 54 37.0824 (223.6545100d) Dec: +37 41 34.57 (37.69294d) Equinox: J2000	Redshift: 3.20	V=19.1 GALEX:m(FUV)=21.88, m(NUV)=not detected; SDSS u= 22.09, g=19.37, r=19.10, i=19.05, z=19.10	Reference Frame: ICRS					
<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=21.88; m(NUV)=23.13</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(32) SDSS1454+3741	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[1]
	2		(32) SDSS1454+3741	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[1]
	3		(32) SDSS1454+3741	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs [==>]	[1]
	4		(32) SDSS1454+3741	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs [==>]	[1]
	5		(32) SDSS1454+3741	ACS/SBC, ACCUM, SBC	PR130L				500 Secs [==>]	[1]
	<i>Comments: exposure time may be adjusted</i>									
	6		(32) SDSS1454+3741	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[2]
	7		(32) SDSS1454+3741	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[2]
	8		(32) SDSS1454+3741	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs [==>]	[2]
9		(32) SDSS1454+3741	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs [==>]	[2]	
10		(32) SDSS1454+3741	ACS/SBC, ACCUM, SBC	PR130L				525 Secs [==>]	[2]	
<i>Comments: exposure time may be extended</i>										



Proposal 11982 - Visit 33 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:20 GMT 2009

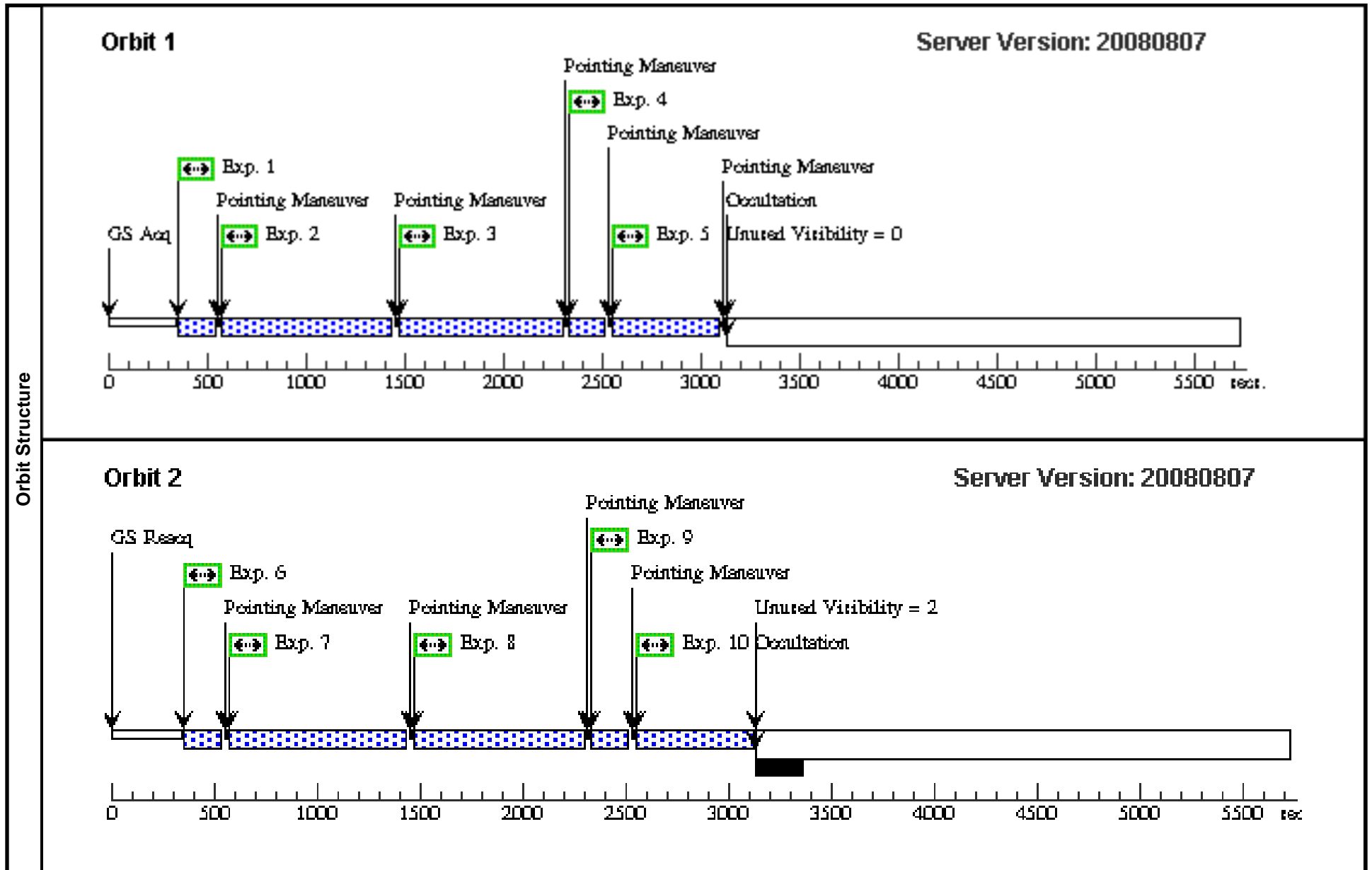
Visit	Proposal 11982, Visit 33, implementation									
	Diagnostic Status: No Diagnostics									
Scientific Instruments: ACS/SBC										
Special Requirements: (none)										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(33)	SDSS1508+1654	RA: 15 08 28.7808 (227.1199200d) Dec: +16 54 33.13 (16.90920d) Equinox: J2000	Redshift: 3.18	V=18.4 GALEX m(FUV)=21.18, m(NUV)=not detected; SDSS u= 21.20, g=18.70, r=18.36, i=18.18, z=18.18	Reference Frame: ICRS				
<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=21.18; m(NUV)=20.57</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(33) SDSS1508+1654	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[1]
	2		(33) SDSS1508+1654	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[1]
	3		(33) SDSS1508+1654	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs [==>]	[1]
	4		(33) SDSS1508+1654	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs [==>]	[1]
	5		(33) SDSS1508+1654	ACS/SBC, ACCUM, SBC	PR130L				485 Secs [==>]	[1]
	<i>Comments: exposure time may be adjusted</i>									
	6		(33) SDSS1508+1654	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[2]
	7		(33) SDSS1508+1654	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[2]
	8		(33) SDSS1508+1654	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs [==>]	[2]
9		(33) SDSS1508+1654	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs [==>]	[2]	
10		(33) SDSS1508+1654	ACS/SBC, ACCUM, SBC	PR130L				510 Secs [==>]	[2]	
<i>Comments: exposure time may be extended</i>										



Proposal 11982 - Visit 34 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:21 GMT 2009

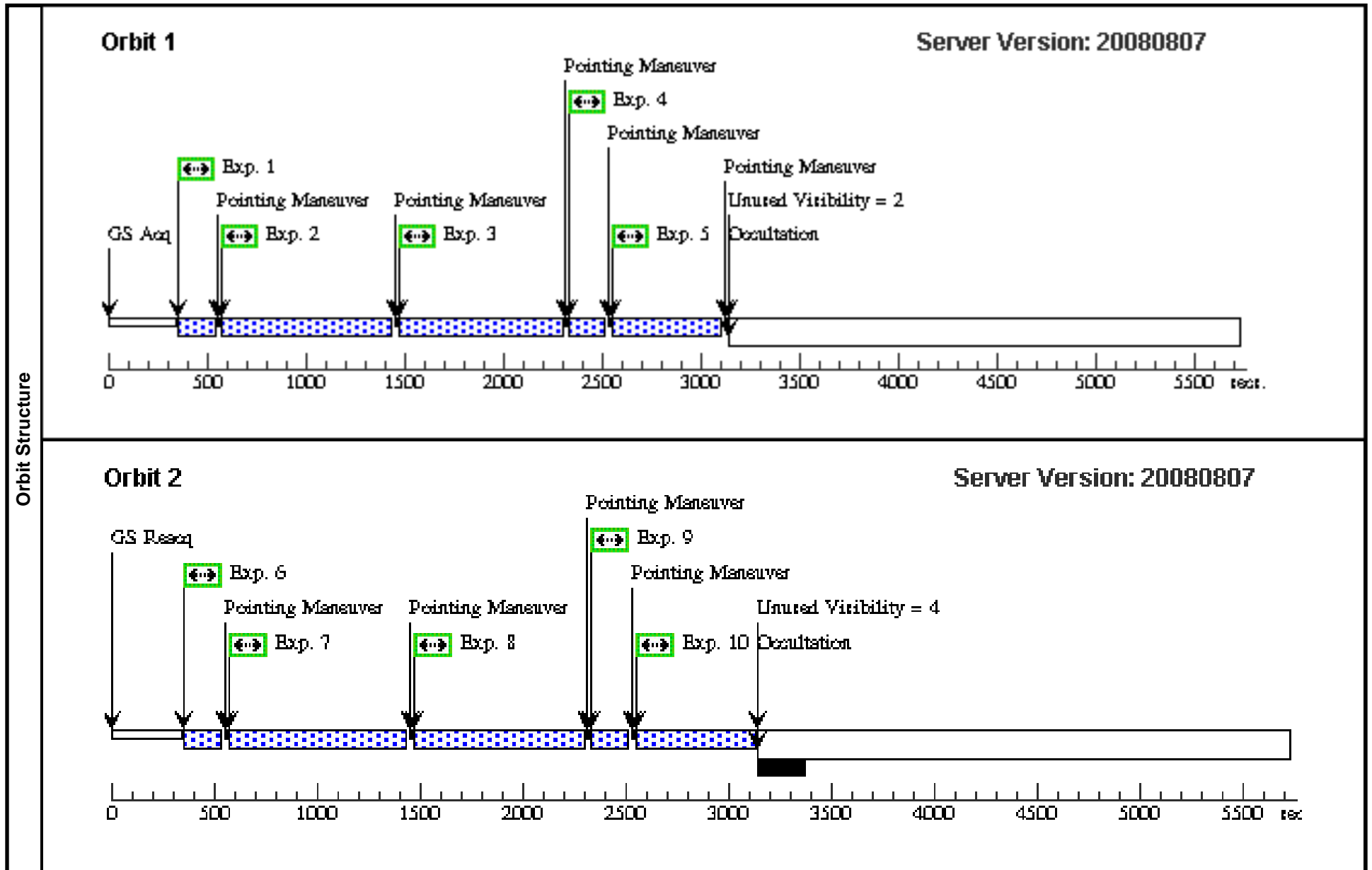
Visit		Proposal 11982, Visit 34, implementation								
		Diagnostic Status: No Diagnostics								
		Scientific Instruments: ACS/SBC								
		Special Requirements: (none)								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(34)	SDSS1536+1437	RA: 15 36 27.0912 (234.1128800d) Dec: +14 37 17.18 (14.62144d) Equinox: J2000	Redshift: 4.88	V=21.6 GALEX m(FUV)=not detected, m(NUV)=22.81; SDSS u=26.19, g=24.80, r=21.64, i=20.09, z=20.10	Reference Frame: ICRS				
<i>Comments: brightest of GALEX sources within 35 arcsec is quasar target itself; m(FUV)=not detected; m(NUV)=22.81</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(34) SDSS1536+1437	ACS/SBC, ACCUM, SBC	F150LP				120 Secs	
									[==>]	[1]
	2		(34) SDSS1536+1437	ACS/SBC, ACCUM, SBC	PR130L				800 Secs	
									[==>]	[1]
	3		(34) SDSS1536+1437	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs	
									[==>]	[1]
	4		(34) SDSS1536+1437	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs	
									[==>]	[1]
	5		(34) SDSS1536+1437	ACS/SBC, ACCUM, SBC	PR130L				480 Secs	
									[==>]	[1]
	<i>Comments: exposure time may be adjusted</i>									
	6		(34) SDSS1536+1437	ACS/SBC, ACCUM, SBC	F150LP				120 Secs	
								[==>]	[2]	
7		(34) SDSS1536+1437	ACS/SBC, ACCUM, SBC	PR130L				800 Secs		
								[==>]	[2]	
8		(34) SDSS1536+1437	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs		
								[==>]	[2]	
9		(34) SDSS1536+1437	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs		
								[==>]	[2]	
10		(34) SDSS1536+1437	ACS/SBC, ACCUM, SBC	PR130L				505 Secs		
								[==>]	[2]	
<i>Comments: exposure time may be extended</i>										



Proposal 11982 - Visit 35 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:21 GMT 2009

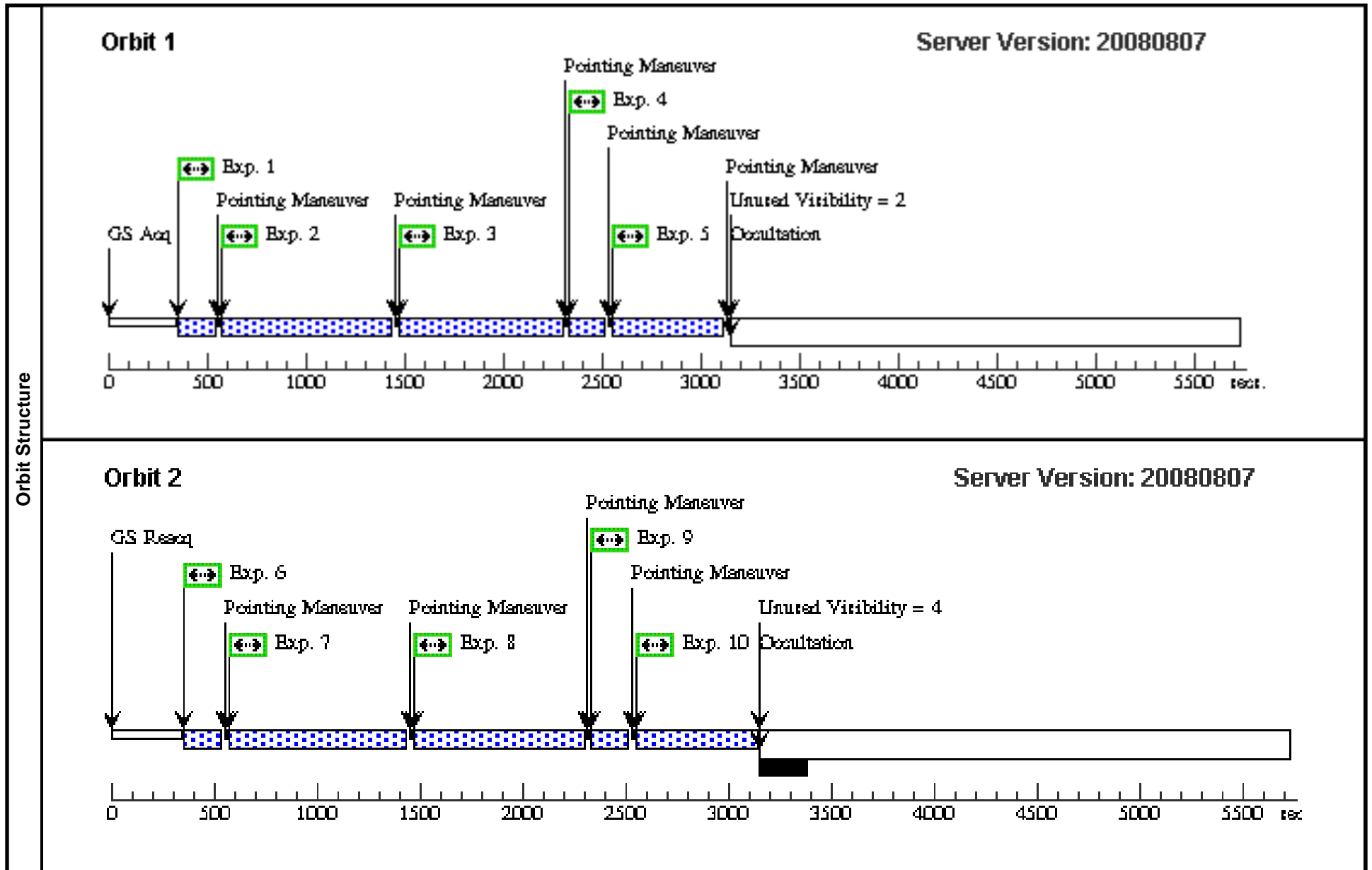
Visit		Proposal 11982, Visit 35, implementation									
Fixed Targets		Diagnostic Status: No Diagnostics									
		Scientific Instruments: ACS/SBC									
		Special Requirements: (none)									
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous						
(35)	SDSS1539+2850	RA: 15 39 30.2448 (234.8760200d) Dec: +28 50 35.36 (28.84316d) Equinox: J2000	Redshift: 3.65	V=18.8 GALEX m(FUV)=21.77, m(NUV)=22.36; SDSS u=21.40, g=19.80, r=18.82, i=18.89, z=18.46	Reference Frame: ICRS						
<i>Comments: brightest of GALEX sources within 35 arcsec is quasar target itself; m(FUV)=21.77; m(NUV)=22.36</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(35) SDSS1539+2850	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
			0						[==>]	[1]	
	2		(35) SDSS1539+2850	ACS/SBC, ACCUM, SBC	PR130L				800 Secs		
			0						[==>]	[1]	
	3		(35) SDSS1539+2850	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs		
			0						[==>]	[1]	
	4		(35) SDSS1539+2850	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs		
			0						[==>]	[1]	
	5		(35) SDSS1539+2850	ACS/SBC, ACCUM, SBC	PR130L				490 Secs		
			0						[==>]	[1]	
	<i>Comments: exposure time may be adjusted</i>										
	6		(35) SDSS1539+2850	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
		0						[==>]	[2]		
7		(35) SDSS1539+2850	ACS/SBC, ACCUM, SBC	PR130L				800 Secs			
		0						[==>]	[2]		
8		(35) SDSS1539+2850	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs			
		0						[==>]	[2]		
9		(35) SDSS1539+2850	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs			
		0						[==>]	[2]		
10		(35) SDSS1539+2850	ACS/SBC, ACCUM, SBC	PR130L				515 Secs			
		0						[==>]	[2]		
<i>Comments: exposure time may be extended</i>											



Proposal 11982 - Visit 36 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:22 GMT 2009

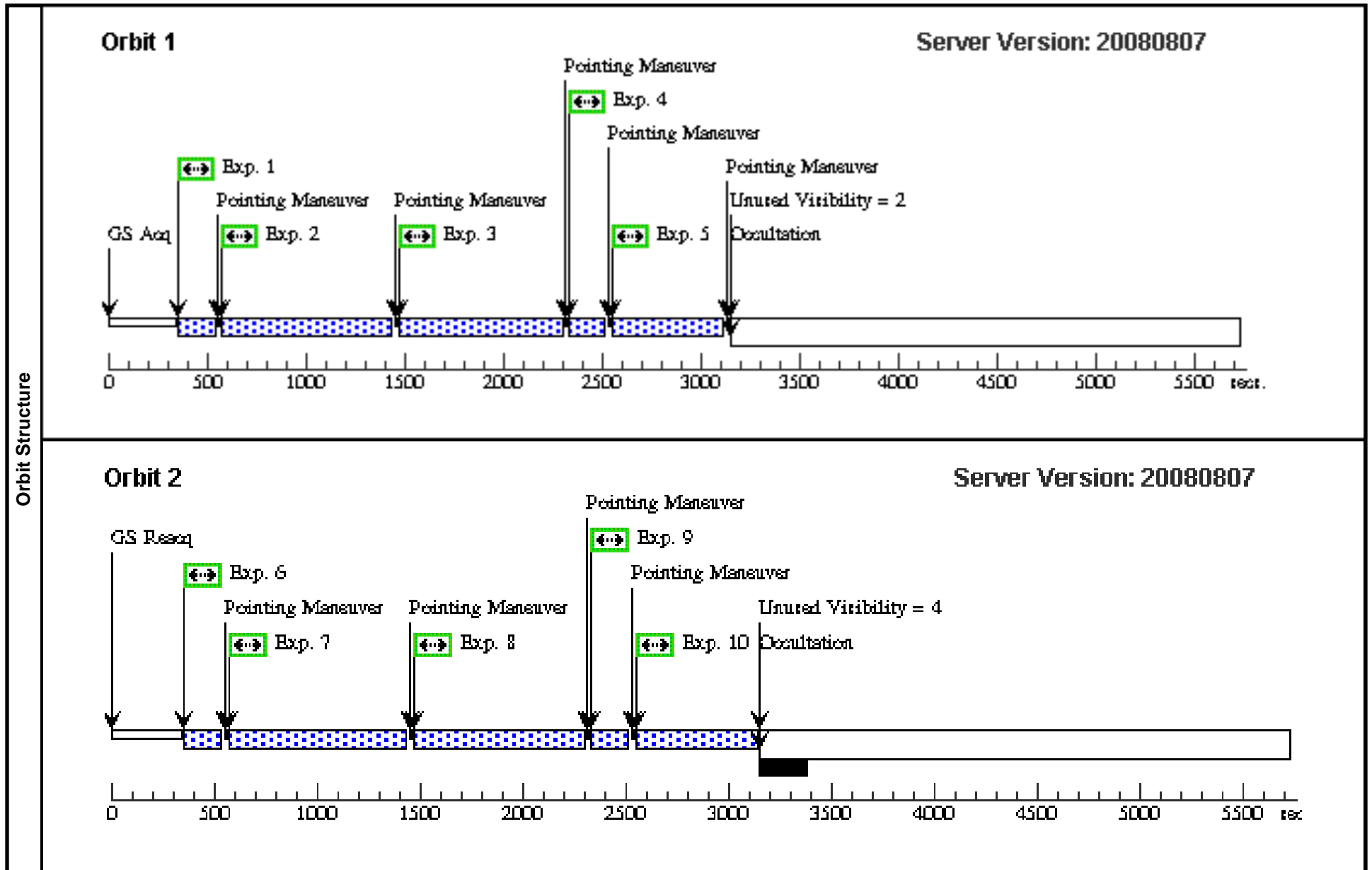
Visit		Proposal 11982, Visit 36, implementation								
Visit		Diagnostic Status: No Diagnostics								
		Scientific Instruments: ACS/SBC Special Requirements: (none)								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(36)	SDSS1541+3959	RA: 15 41 47.6784 (235.4486600d) Dec: +39 59 40.11 (39.99448d) Equinox: J2000	Redshift: 3.55	V=20.1 GALEX m(FUV)=21.53, m(NUV)=not detected; SDSS u=25.94, g=21.14, r=20.08, i=19.80, z=19.75	Reference Frame: ICRS				
<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=21.53; m(NUV)=22.28</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(36) SDSS1541+3959	ACS/SBC, ACCUM, SBC	F150LP				120 Secs	
									[==>]	[1]
	2		(36) SDSS1541+3959	ACS/SBC, ACCUM, SBC	PR130L				800 Secs	
									[==>]	[1]
	3		(36) SDSS1541+3959	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs	
									[==>]	[1]
	4		(36) SDSS1541+3959	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs	
									[==>]	[1]
	5		(36) SDSS1541+3959	ACS/SBC, ACCUM, SBC	PR130L				500 Secs	
									[==>]	[1]
<i>Comments: exposure time may be adjusted</i>										
6		(36) SDSS1541+3959	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
								[==>]	[2]	
7		(36) SDSS1541+3959	ACS/SBC, ACCUM, SBC	PR130L				800 Secs		
								[==>]	[2]	
8		(36) SDSS1541+3959	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs		
								[==>]	[2]	
9		(36) SDSS1541+3959	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs		
								[==>]	[2]	
10		(36) SDSS1541+3959	ACS/SBC, ACCUM, SBC	PR130L				525 Secs		
								[==>]	[2]	
<i>Comments: exposure time may be extended</i>										



Proposal 11982 - Visit 37 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:22 GMT 2009

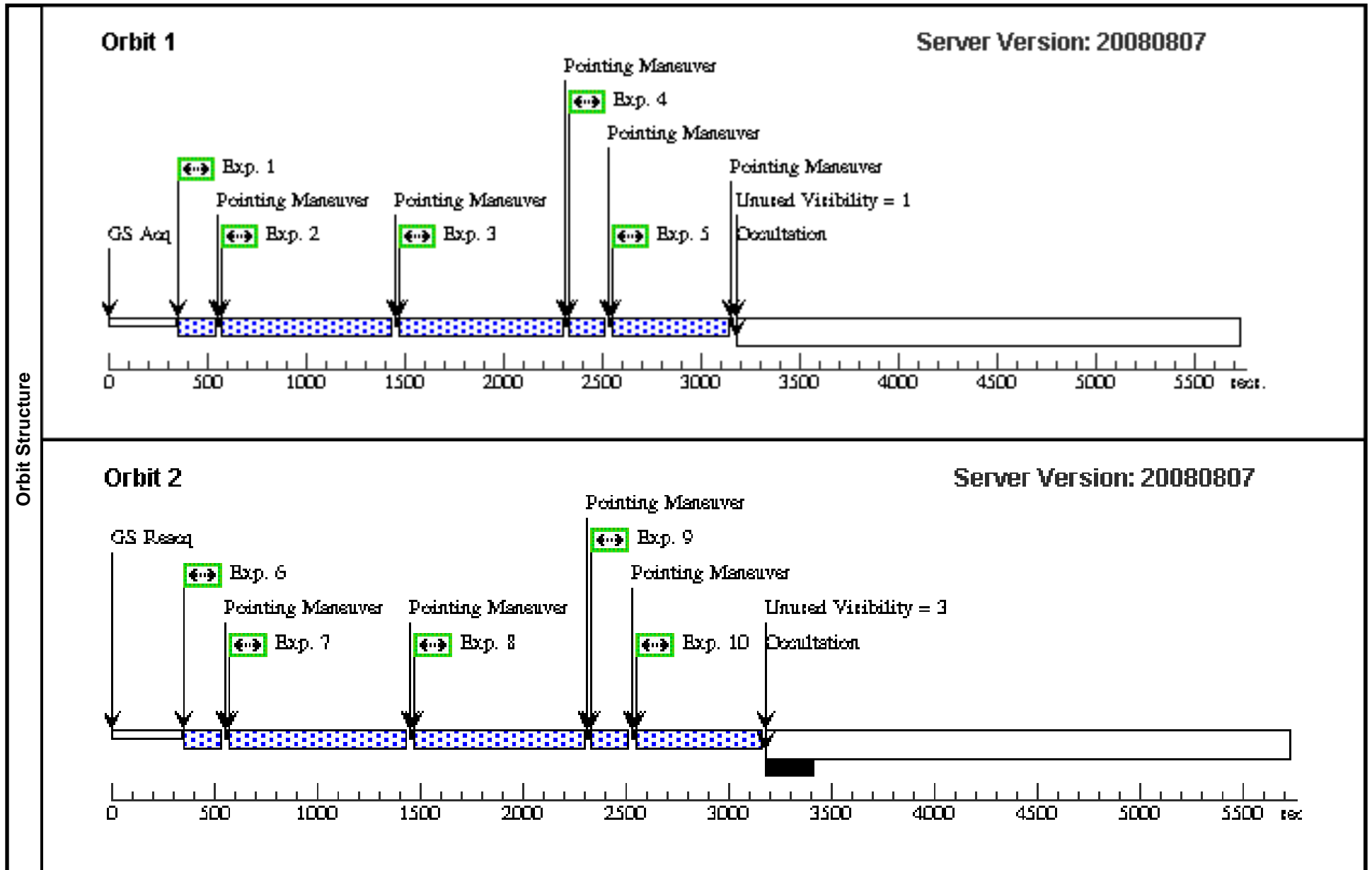
Visit		Proposal 11982, Visit 37, implementation								
Visit		Diagnostic Status: No Diagnostics								
		Scientific Instruments: ACS/SBC Special Requirements: (none)								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(37)	SDSS1555+3849	RA: 15 55 31.6440 (238.8818500d) Dec: +38 49 24.88 (38.82358d) Equinox: J2000	Redshift: 3.50	V=20.1 GALEX m(FUV)=22.47, m(NUV)=not detected; SDSS u=24.97, g=20.79, r=20.11, i=20.01, z=19.87	Reference Frame: ICRS				
<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=22.47; m(NUV)=22.20</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(37) SDSS1555+3849	ACS/SBC, ACCUM, SBC	F150LP				120 Secs	
									[==>]	[1]
	2		(37) SDSS1555+3849	ACS/SBC, ACCUM, SBC	PR130L				800 Secs	
									[==>]	[1]
	3		(37) SDSS1555+3849	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs	
									[==>]	[1]
	4		(37) SDSS1555+3849	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs	
									[==>]	[1]
	5		(37) SDSS1555+3849	ACS/SBC, ACCUM, SBC	PR130L				500 Secs	
									[==>]	[1]
<i>Comments: exposure time may be adjusted</i>										
6		(37) SDSS1555+3849	ACS/SBC, ACCUM, SBC	F150LP				120 Secs		
								[==>]	[2]	
7		(37) SDSS1555+3849	ACS/SBC, ACCUM, SBC	PR130L				800 Secs		
								[==>]	[2]	
8		(37) SDSS1555+3849	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs		
								[==>]	[2]	
9		(37) SDSS1555+3849	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs		
								[==>]	[2]	
10		(37) SDSS1555+3849	ACS/SBC, ACCUM, SBC	PR130L				525 Secs		
								[==>]	[2]	
<i>Comments: exposure time may be extended</i>										



Proposal 11982 - Visit 38 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

Sat Jan 31 02:14:22 GMT 2009

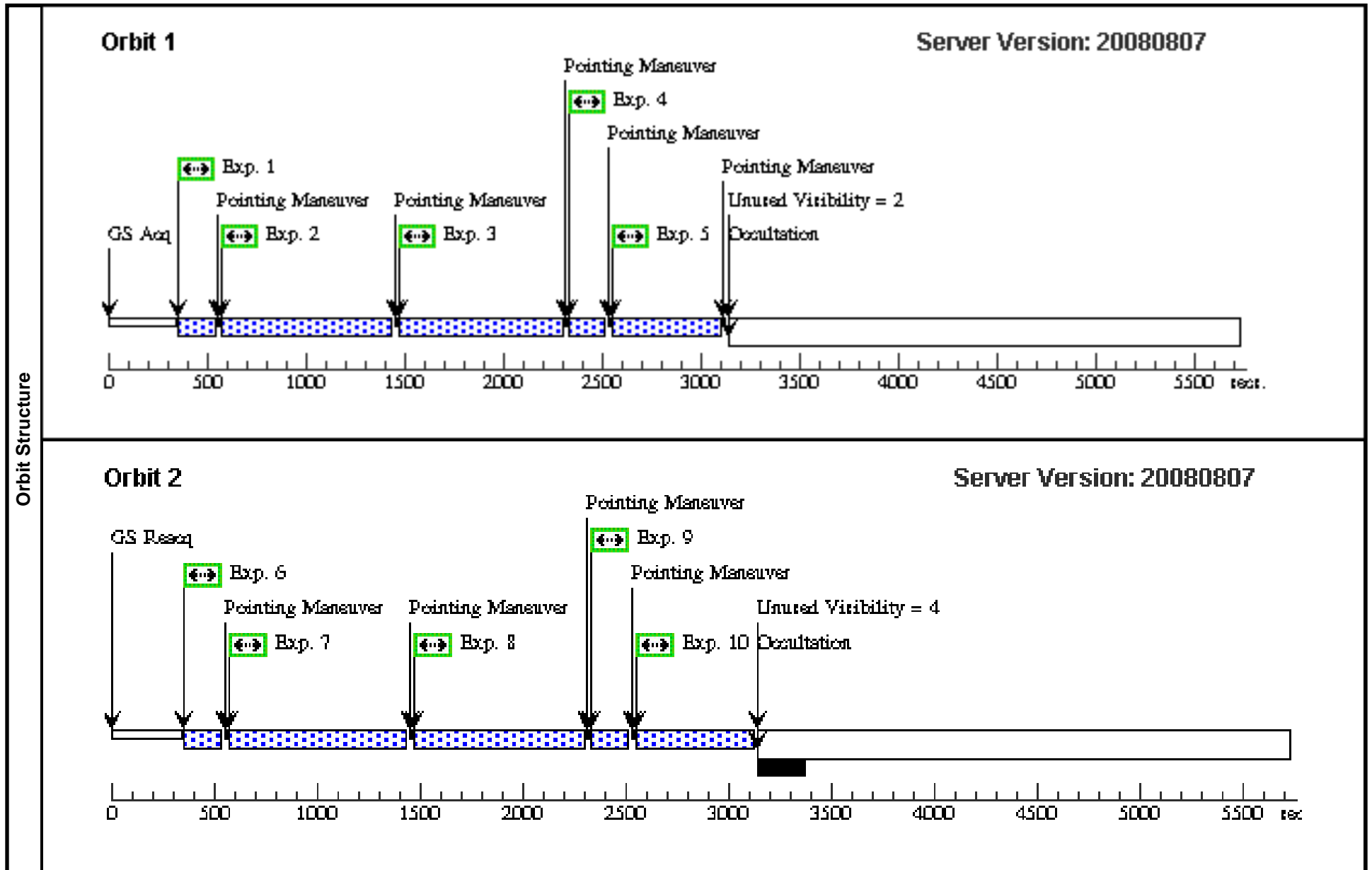
Visit		Proposal 11982, Visit 38, implementation								
Fixed Targets		Diagnostic Status: No Diagnostics								
		Scientific Instruments: ACS/SBC								
		Special Requirements: (none)								
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
(38)	SDSS1614+4859	RA: 16 14 26.8152 (243.6117300d) Dec: +48 59 58.70 (48.99964d) Equinox: J2000	Redshift: 3.81	V=19.6 GALEX m(FUV)=22.50, m(NUV)=22.90; SDSS u=21.67, g=20.59, r=19.56, i=19.45, z=19.42	Reference Frame: ICRS					
<i>Comments: brightest of GALEX sources within 35 arcsec is quasar target itself; m(FUV)=22.50; m(NUV)=22.90</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(38) SDSS1614+4859	ACS/SBC, ACCUM, SBC	F150LP				120 Secs	
									[==>]	[1]
	2		(38) SDSS1614+4859	ACS/SBC, ACCUM, SBC	PR130L				800 Secs	
									[==>]	[1]
	3		(38) SDSS1614+4859	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs	
									[==>]	[1]
	4		(38) SDSS1614+4859	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs	
									[==>]	[1]
	5		(38) SDSS1614+4859	ACS/SBC, ACCUM, SBC	PR130L				525 Secs	
									[==>]	[1]
	<i>Comments: exposure time may be adjusted</i>									
	6		(38) SDSS1614+4859	ACS/SBC, ACCUM, SBC	F150LP				120 Secs	
								[==>]	[2]	
7		(38) SDSS1614+4859	ACS/SBC, ACCUM, SBC	PR130L				800 Secs		
								[==>]	[2]	
8		(38) SDSS1614+4859	ACS/SBC, ACCUM, SBC	PR130L		POS TARG 0.017,0		800 Secs		
								[==>]	[2]	
9		(38) SDSS1614+4859	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.017,0		120 Secs		
								[==>]	[2]	
10		(38) SDSS1614+4859	ACS/SBC, ACCUM, SBC	PR130L				550 Secs		
								[==>]	[2]	
<i>Comments: exposure time may be extended</i>										



Proposal 11982 - Visit 39 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

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Visit	Proposal 11982, Visit 39, implementation									
	Diagnostic Status: No Diagnostics									
Fixed Targets	Scientific Instruments: ACS/SBC									
	Special Requirements: (none)									
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(39)	Q1943-1502	RA: 19 43 58.8000 (295.9950000d) Dec: -15 02 48.98 (-15.04694d) Equinox: J2000	Redshift: 3.3	V=19.9 GALEX m(FUV)=21.37, m(NUV)=21.17	Reference Frame: ICRS				
<i>Comments: brightest GALEX sources within 35 arcsec: m(FUV)=21.37; m(NUV)=21.17</i>										
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	(39) Q1943-1502	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[1]	
2	(39) Q1943-1502	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[1]		
3	(39) Q1943-1502	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0	800 Secs [==>]	[1]		
4	(39) Q1943-1502	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0	120 Secs [==>]	[1]		
5	(39) Q1943-1502	ACS/SBC, ACCUM, SBC	PR130L				485 Secs [==>]	[1]		
<i>Comments: exposure time may be adjusted</i>										
6	(39) Q1943-1502	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[2]		
7	(39) Q1943-1502	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[2]		
8	(39) Q1943-1502	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0	800 Secs [==>]	[2]		
9	(39) Q1943-1502	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0	120 Secs [==>]	[2]		
10	(39) Q1943-1502	ACS/SBC, ACCUM, SBC	PR130L				510 Secs [==>]	[2]		
<i>Comments: exposure time may be extended</i>										



Proposal 11982 - Visit 40 - Spanning the Reionization History of IGM Helium: a Large and Efficient HST Spectral Surve...

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Visit	Proposal 11982, Visit 40, implementation										
		Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(40)	Q2158-3030	RA: 21 58 11.2399 (329.5468329d) Dec: -30 30 4.30 (-30.50119d) Equinox: J2000	Redshift: 3.87	V=20.2 GALEX m(FUV)=not detected; m(NUV)=22.82	Reference Frame: ICRS					
	<i>Comments: brightest GALEX source within 35 arcsec: m(FUV)=19.59; m(NUV)=19.35</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(40) Q2158-3030	ACS/SBC, ACCUM, SBC	F150LP		GS ACQ SCENARI O BASE1T3		120 Secs [==>]	[1]	
	2		(40) Q2158-3030	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[1]	
	3		(40) Q2158-3030	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0	800 Secs [==>]	[1]	
	4		(40) Q2158-3030	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0	120 Secs [==>]	[1]	
	5		(40) Q2158-3030	ACS/SBC, ACCUM, SBC	PR130L				495 Secs [==>]	[1]	
		<i>Comments: exposure time may be adjusted</i>									
	6		(40) Q2158-3030	ACS/SBC, ACCUM, SBC	F150LP				120 Secs [==>]	[2]	
	7		(40) Q2158-3030	ACS/SBC, ACCUM, SBC	PR130L				800 Secs [==>]	[2]	
	8		(40) Q2158-3030	ACS/SBC, ACCUM, SBC	PR130L			POS TARG 0.017,0	800 Secs [==>]	[2]	
	9		(40) Q2158-3030	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.017,0	120 Secs [==>]	[2]	
	10		(40) Q2158-3030	ACS/SBC, ACCUM, SBC	PR130L				520 Secs [==>]	[2]	
		<i>Comments: exposure time may be extended</i>									

