



12018 - Ultra-Luminous x-Ray Sources in the Most Metal-Poor Galaxies

Cycle: 17, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) UGC772	WFC3/UVIS	1	06-Nov-2009 21:11:46.0	yes
03	(3) 6DFJ0405204-364859	WFC3/UVIS	1	06-Nov-2009 21:11:51.0	yes
05	(5) SDSSJ081239.52+483645.3	WFC3/UVIS	1	06-Nov-2009 21:11:57.0	yes
06	(6) SDSSJ085946.92+392305.6	WFC3/UVIS	1	06-Nov-2009 21:12:02.0	yes
08	(8) SDSSJ210455.31-003522.2	WFC3/UVIS	1	06-Nov-2009 21:12:07.0	yes
09	(9) SBS1129+576	WFC3/UVIS	1	06-Nov-2009 21:12:10.0	yes
10	(10) SBS1102+606	WFC3/UVIS	1	06-Nov-2009 21:12:14.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
11	(11) SDSSJ120122.32+021108.5	WFC3/UVIS	1	06-Nov-2009 21:12:18.0	yes
12	(12) A1116+51	WFC3/UVIS	1	06-Nov-2009 21:12:22.0	yes
14	(14) KUG1013+381	WFC3/UVIS	1	06-Nov-2009 21:12:26.0	yes
16	(16) SDSSJ141454.13-020822.9	WFC3/UVIS	1	06-Nov-2009 21:12:30.0	yes
17	(17) SDSSJ223036.79-000636.9	WFC3/UVIS	1	06-Nov-2009 21:12:35.0	yes
18	(18) HS1442+4250	WFC3/UVIS	1	06-Nov-2009 21:12:38.0	yes
19	(19) KUG0201-103	WFC3/UVIS	1	06-Nov-2009 21:12:42.0	yes
20	(20) KUG0743+513	WFC3/UVIS	1	06-Nov-2009 21:12:45.0	yes
21	(21) KUG0937+298	WFC3/UVIS	1	06-Nov-2009 21:12:49.0	yes
22	(22) KUG0942+551	WFC3/UVIS	1	06-Nov-2009 21:12:52.0	yes

17 Total Orbits Used

ABSTRACT

There is growing observational and theoretical evidence to suggest that Ultra-Luminous X-ray sources (ULX) form preferentially in low metallicity environments. Here we propose a survey of 27 nearby (< 30Mpc) star-forming Extremely Metal Poor Galaxies ($Z < 5\%$ solar). There are almost no X-ray observations of such low abundance galaxies (3 in the Chandra archive). These are the most metal-deficient galaxies known, and a logical place to find ULX if they favor metal-poor systems. We plan to test recent population synthesis models which predict that ULX should be very numerous in metal-poor galaxies. We will also test the hypothesis that ULX form in massive young star clusters, and ask for HST time to obtain the necessary imaging data.

OBSERVING DESCRIPTION

The goal of the HST portion of this program is to obtain broad-band imaging in several filters in order to detect and constrain ages of star clusters in the ultra metal-poor galaxy sample studied here. Each galaxy is observed for a single orbit. Because many of the galaxies are quite small on the sky, we prefer to use sub-arrays with the WFC3, which allow faster readout times. We have selected pre-defined subarrays matched to the extent of each target. In a few cases we ask for loose orientation constraints to make sure that the outer portions of the galaxy are observed.

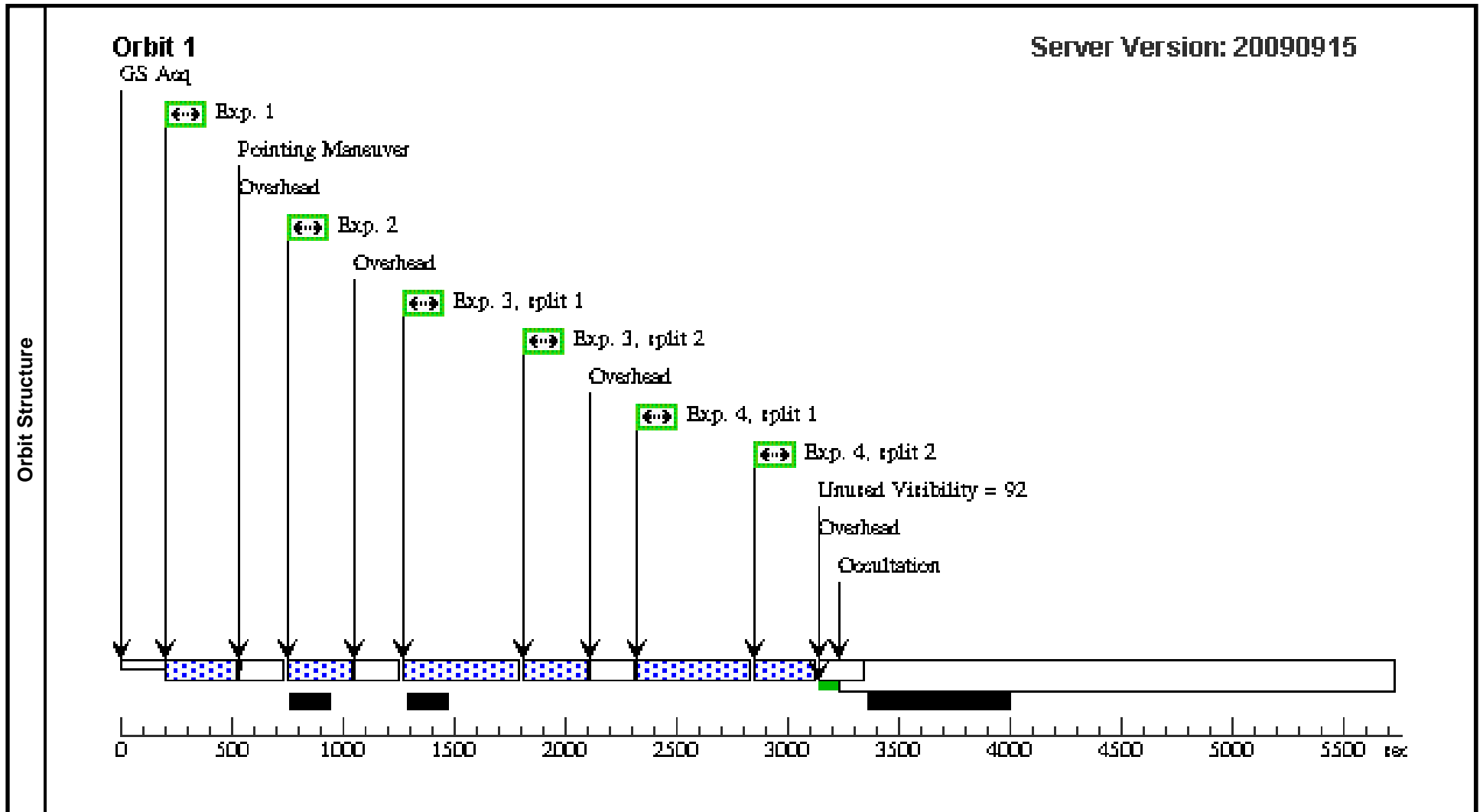
The number of exposures that fit within an orbit depends primarily on the subarray. For the smallest subarray, we are able to get 8 exposures in an orbit, and here we include U band imaging, in addition to B, V, and I filters, which allows more quantitative determinations for the ages of star clusters. Galaxies observed with larger subarrays are observed in B, V, and I. We prefer the broad V (606W) over the narrower V filters that are available. This filter allows (nebular) line emission through, placing these clusters in a different portion of the 2 color diagram, which can be used as an additional age constraint, since objects with strong line emission have ages younger than ~10 Myr.

We use a very basic dither strategy. We take 2 exposures per filter, and use POS-TARGs to move by 2 pixels in x and y. The goal of dithering here is not to improve resolution or to step over any gap, but rather for cosmic ray rejection and the rejection of hot pixels.

Proposal 12018 - Visit 01 - Ultra-Luminous x-Ray Sources in the Most Metal-Poor Galaxies

Sat Nov 07 02:12:56 GMT 2009

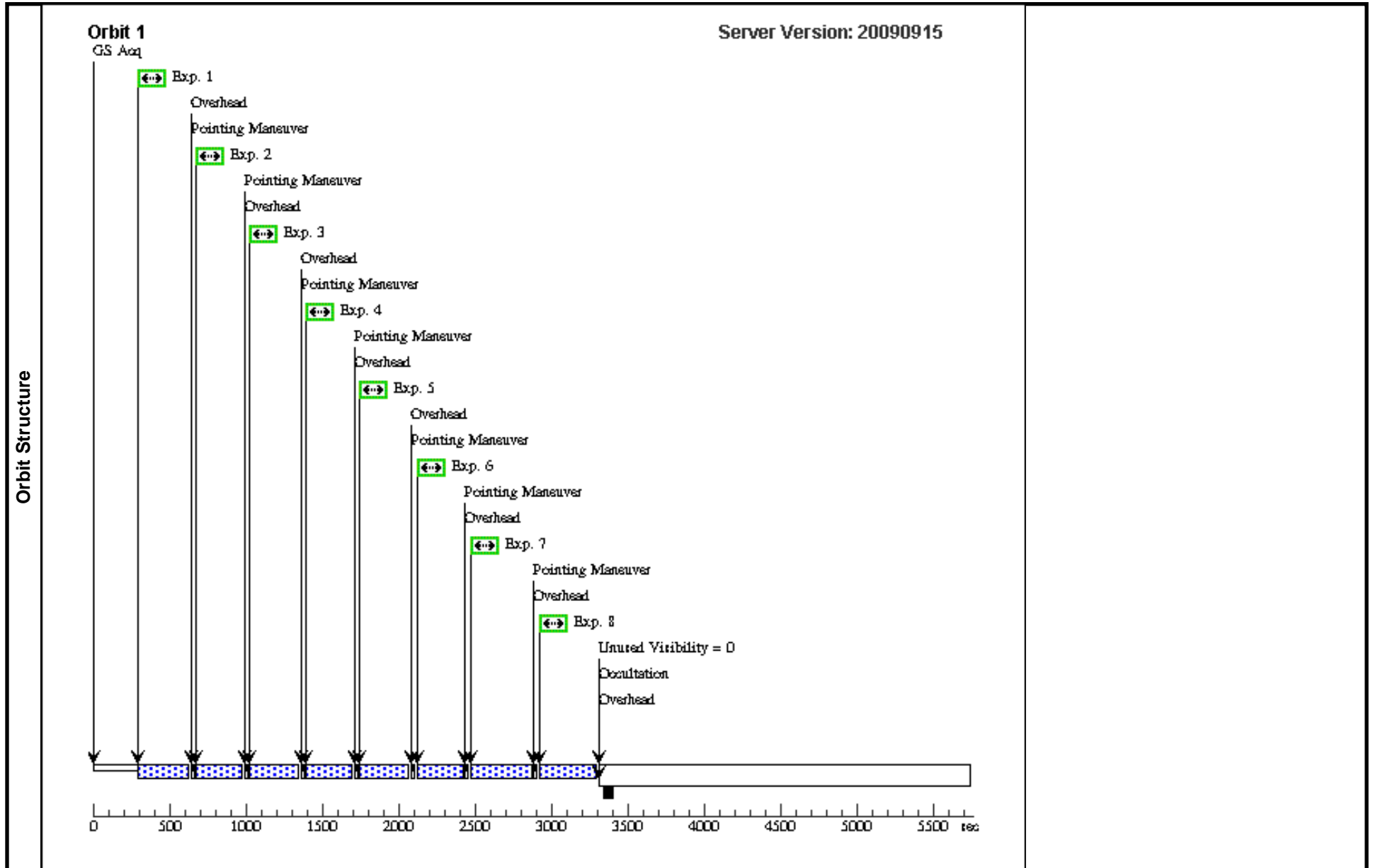
Visit	Proposal 12018, Visit 01, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 25.0D TO 85.0 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	UGC772	RA: 01 13 39.4000 (18.4141667d) Dec: +00 52 28.00 (.87444d) Equinox: J2000		V=23	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) UGC772	(1) UGC772	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F438W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796; GS ACQ SCENARI O ONEB1B3		290 Secs [==>]	[1]
	2	(1) UGC772	(1) UGC772	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F438W	CR-SPLIT=NO			290 Secs [==>]	[1]
	3	(1) UGC772	(1) UGC772	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=2			580 Secs [==>(Split 1)] [==>(Split 2)]	[1]
	4	(1) UGC772	(1) UGC772	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F814W	CR-SPLIT=2			552 Secs [==>(Split 1)] [==>(Split 2)]	[1]



Proposal 12018 - Visit 03 - Ultra-Luminous x-Ray Sources in the Most Metal-Poor Galaxies

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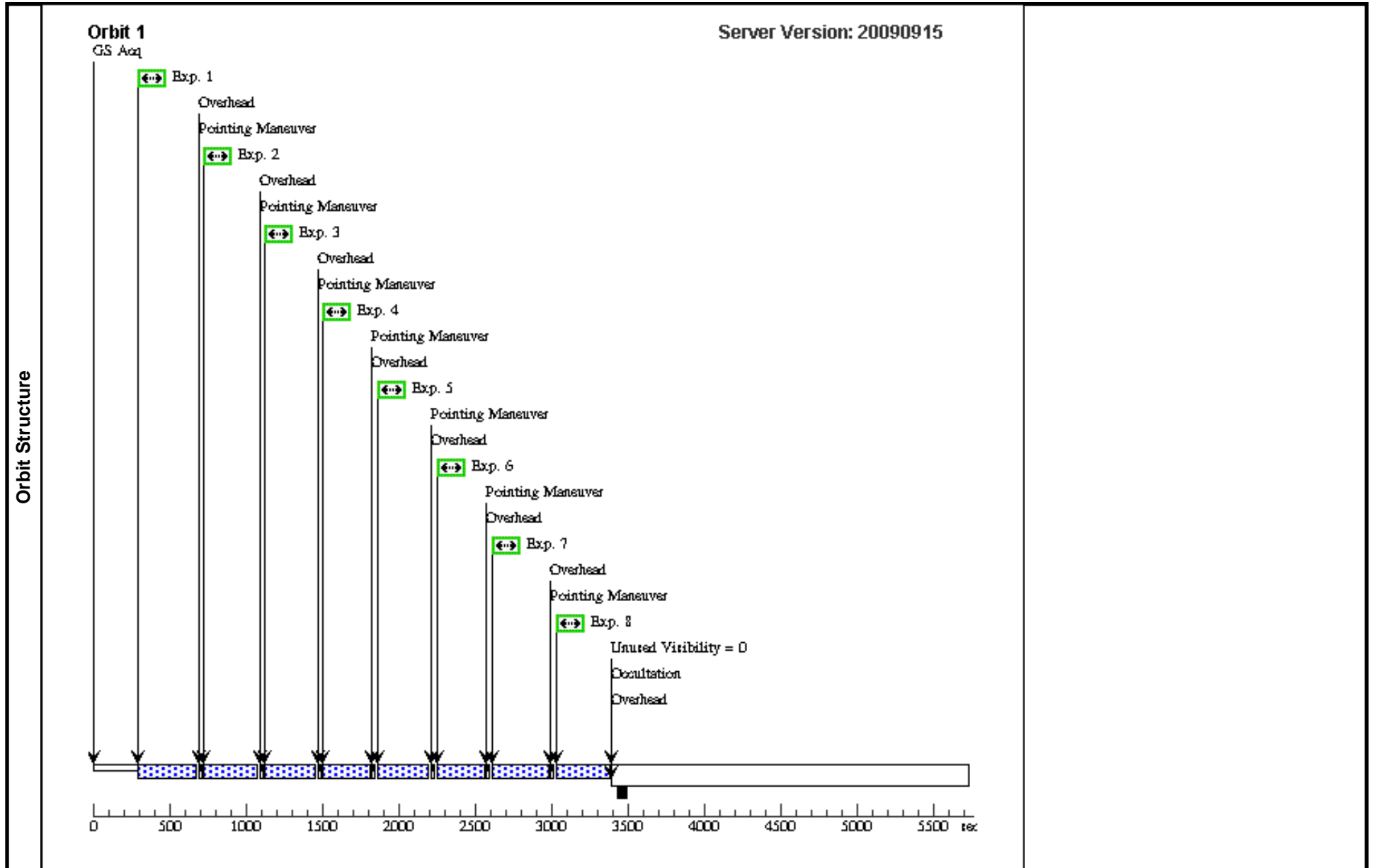
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	(3)	6DFJ0405204-364859	RA: 04 05 20.3315 (61.3347146d) Dec: -36 49 0.22 (-36.81673d) Equinox: J2000		V=23	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) 6DFJ0405204-364859	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO			300 Secs [==>]	[1]
	2		(3) 6DFJ0405204-364859	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		300 Secs [==>]	[1]
	3		(3) 6DFJ0405204-364859	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO			300 Secs [==>]	[1]
	4		(3) 6DFJ0405204-364859	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		300 Secs [==>]	[1]
	5		(3) 6DFJ0405204-364859	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO			300 Secs [==>]	[1]
	6		(3) 6DFJ0405204-364859	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		300 Secs [==>]	[1]
	7		(3) 6DFJ0405204-364859	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO			375 Secs [==>]	[1]
	8		(3) 6DFJ0405204-364859	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		375 Secs [==>]	[1]



Proposal 12018 - Visit 05 - Ultra-Luminous x-Ray Sources in the Most Metal-Poor Galaxies

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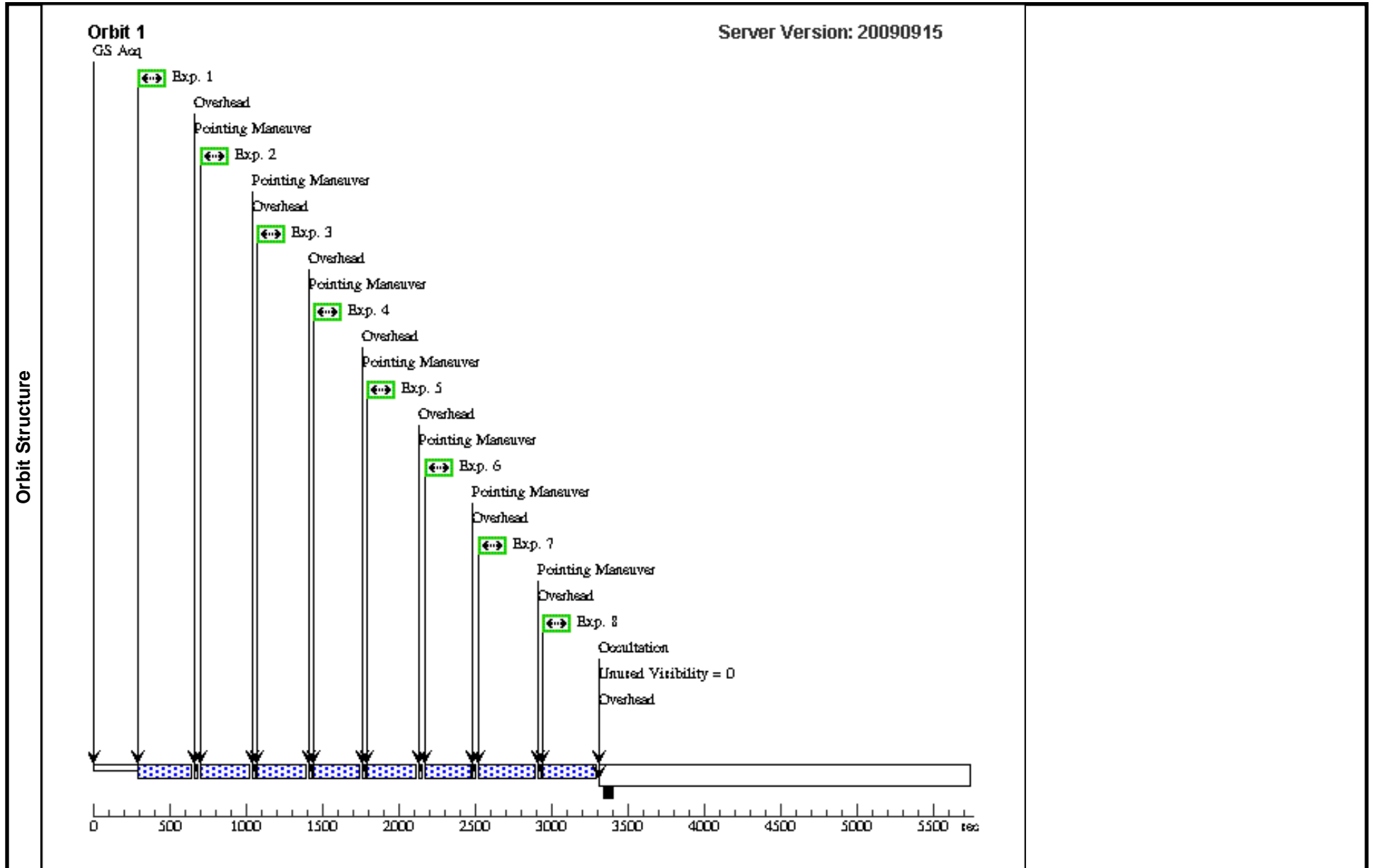
Visit	Proposal 12018, Visit 05, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(5)	SDSSJ081239.52+483645.3	RA: 08 12 39.6060 (123.1650250d) Dec: +48 36 45.59 (48.61266d) Equinox: J2000		V=23	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(5) SDSSJ081239.52+483645.3	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO			350 Secs [==>]	[1]
	2		(5) SDSSJ081239.52+483645.3	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		350 Secs [==>]	[1]
	3		(5) SDSSJ081239.52+483645.3	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO			309 Secs [==>]	[1]
	4		(5) SDSSJ081239.52+483645.3	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		309 Secs [==>]	[1]
	5		(5) SDSSJ081239.52+483645.3	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO			310 Secs [==>]	[1]
	6		(5) SDSSJ081239.52+483645.3	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		310 Secs [==>]	[1]
	7		(5) SDSSJ081239.52+483645.3	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO			350 Secs [==>]	[1]
	8		(5) SDSSJ081239.52+483645.3	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		350 Secs [==>]	[1]



Proposal 12018 - Visit 06 - Ultra-Luminous x-Ray Sources in the Most Metal-Poor Galaxies

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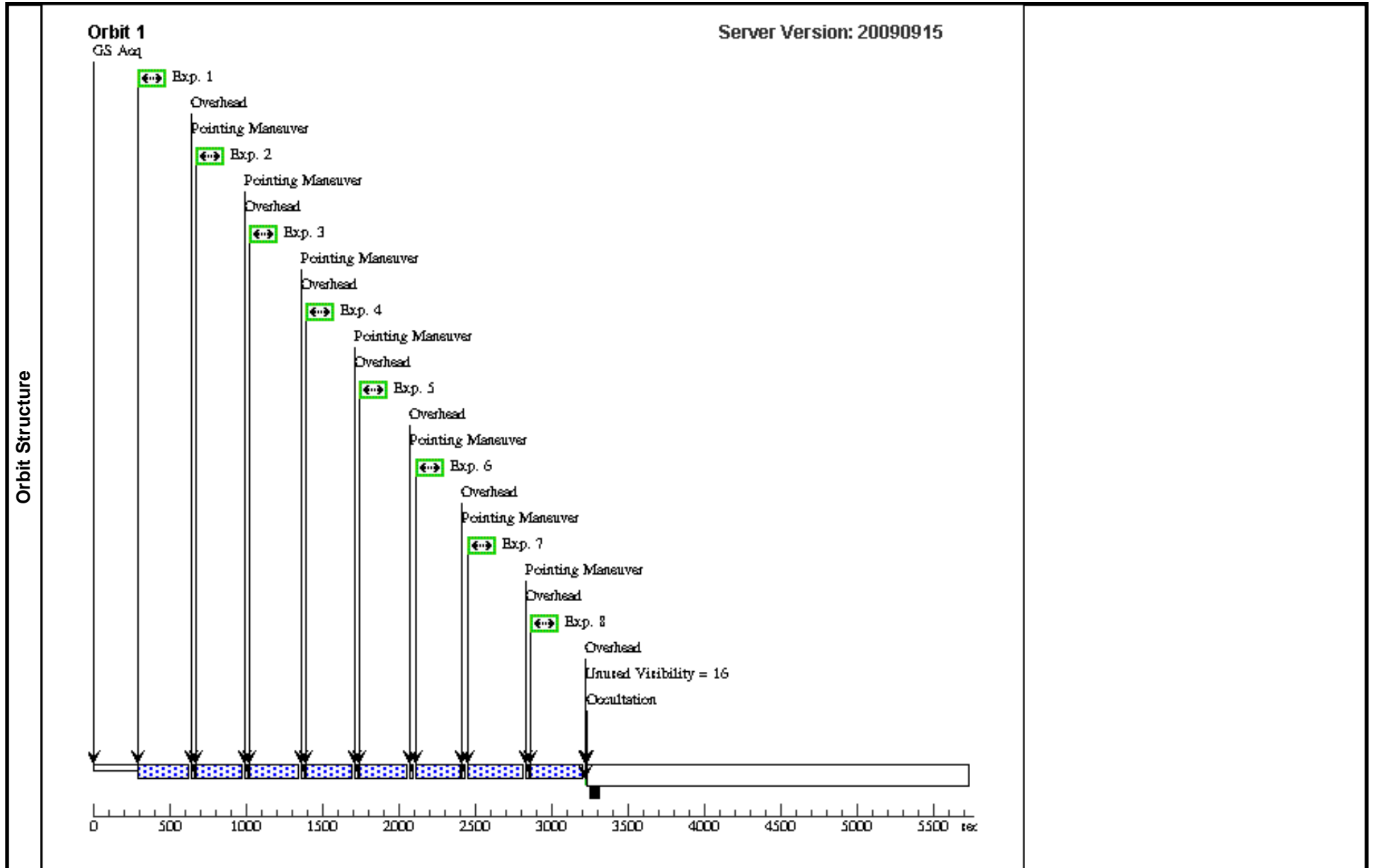
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	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(6)	SDSSJ085946.92+392305.6	RA: 08 59 47.0600 (134.9460833d) Dec: +39 23 4.12 (39.38448d) Equinox: J2000		V=23	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(6) SDSSJ085946.92+392305.6	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO			325 Secs [==>]	[1]
	2		(6) SDSSJ085946.92+392305.6	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		325 Secs [==>]	[1]
	3		(6) SDSSJ085946.92+392305.6	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO			300 Secs [==>]	[1]
	4		(6) SDSSJ085946.92+392305.6	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		300 Secs [==>]	[1]
	5		(6) SDSSJ085946.92+392305.6	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO			300 Secs [==>]	[1]
	6		(6) SDSSJ085946.92+392305.6	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		300 Secs [==>]	[1]
	7		(6) SDSSJ085946.92+392305.6	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO			350 Secs [==>]	[1]
	8		(6) SDSSJ085946.92+392305.6	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		350 Secs [==>]	[1]



Proposal 12018 - Visit 08 - Ultra-Luminous x-Ray Sources in the Most Metal-Poor Galaxies

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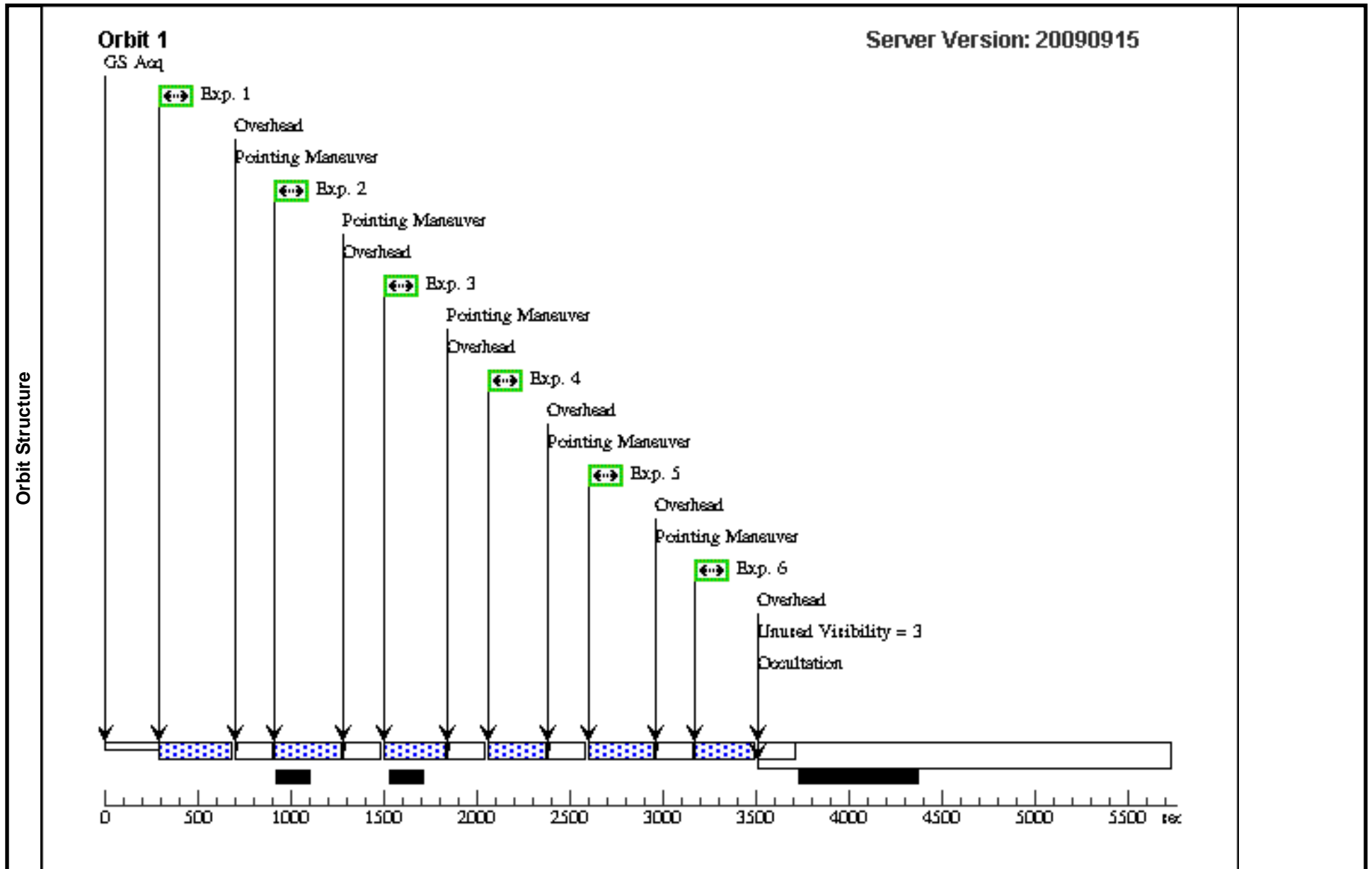
Visit	Proposal 12018, Visit 08, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
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	(8)	SDSSJ210455.31-003522.2	RA: 21 04 55.3000 (316.2304167d) Dec: -00 35 22.00 (-.58944d) Equinox: J2000		V=23.	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(8) SDSSJ210455.31-003522.2	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO			300 Secs [==>]	[1]
	2		(8) SDSSJ210455.31-003522.2	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		300 Secs [==>]	[1]
	3		(8) SDSSJ210455.31-003522.2	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO			300 Secs [==>]	[1]
	4		(8) SDSSJ210455.31-003522.2	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		300 Secs [==>]	[1]
	5		(8) SDSSJ210455.31-003522.2	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO			290 Secs [==>]	[1]
	6		(8) SDSSJ210455.31-003522.2	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		290 Secs [==>]	[1]
	7		(8) SDSSJ210455.31-003522.2	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO			340 Secs [==>]	[1]
	8		(8) SDSSJ210455.31-003522.2	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		340 Secs [==>]	[1]



Proposal 12018 - Visit 09 - Ultra-Luminous x-Ray Sources in the Most Metal-Poor Galaxies

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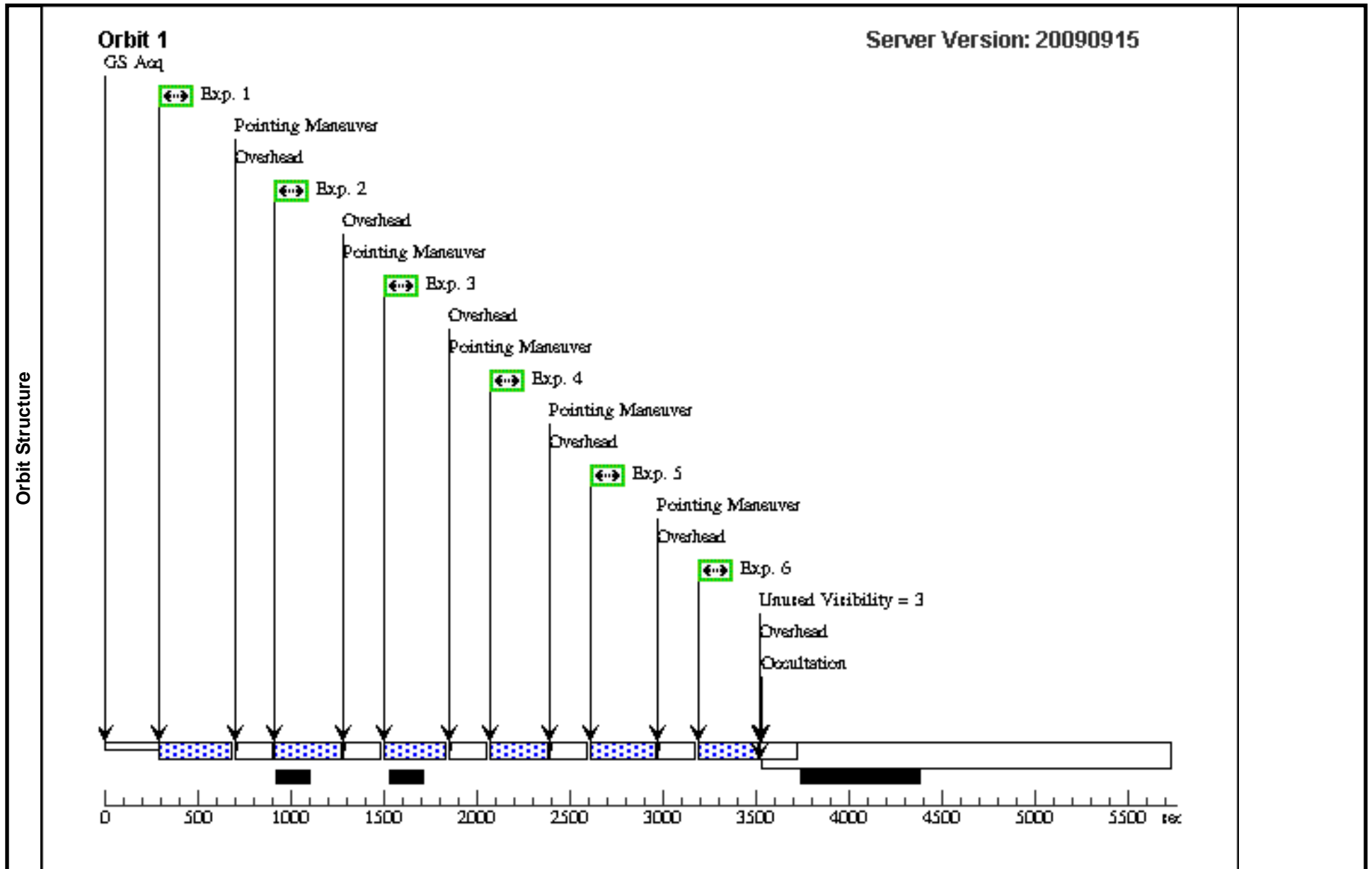
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	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(9)	SBS1129+576	RA: 11 32 2.5000 (173.0104167d) Dec: +57 22 45.70 (57.37936d) Equinox: J2000		V=23	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(9) SBS1129+576	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F438W	CR-SPLIT=NO				360 Secs [==>]	[1]
	2	(9) SBS1129+576	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F438W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			360 Secs [==>]	[1]
	3	(9) SBS1129+576	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO				310 Secs [==>]	[1]
	4	(9) SBS1129+576	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			310 Secs [==>]	[1]
	5	(9) SBS1129+576	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F814W	CR-SPLIT=NO				325 Secs [==>]	[1]
	6	(9) SBS1129+576	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F814W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			325 Secs [==>]	[1]



Proposal 12018 - Visit 10 - Ultra-Luminous x-Ray Sources in the Most Metal-Poor Galaxies

Sat Nov 07 02:12:59 GMT 2009

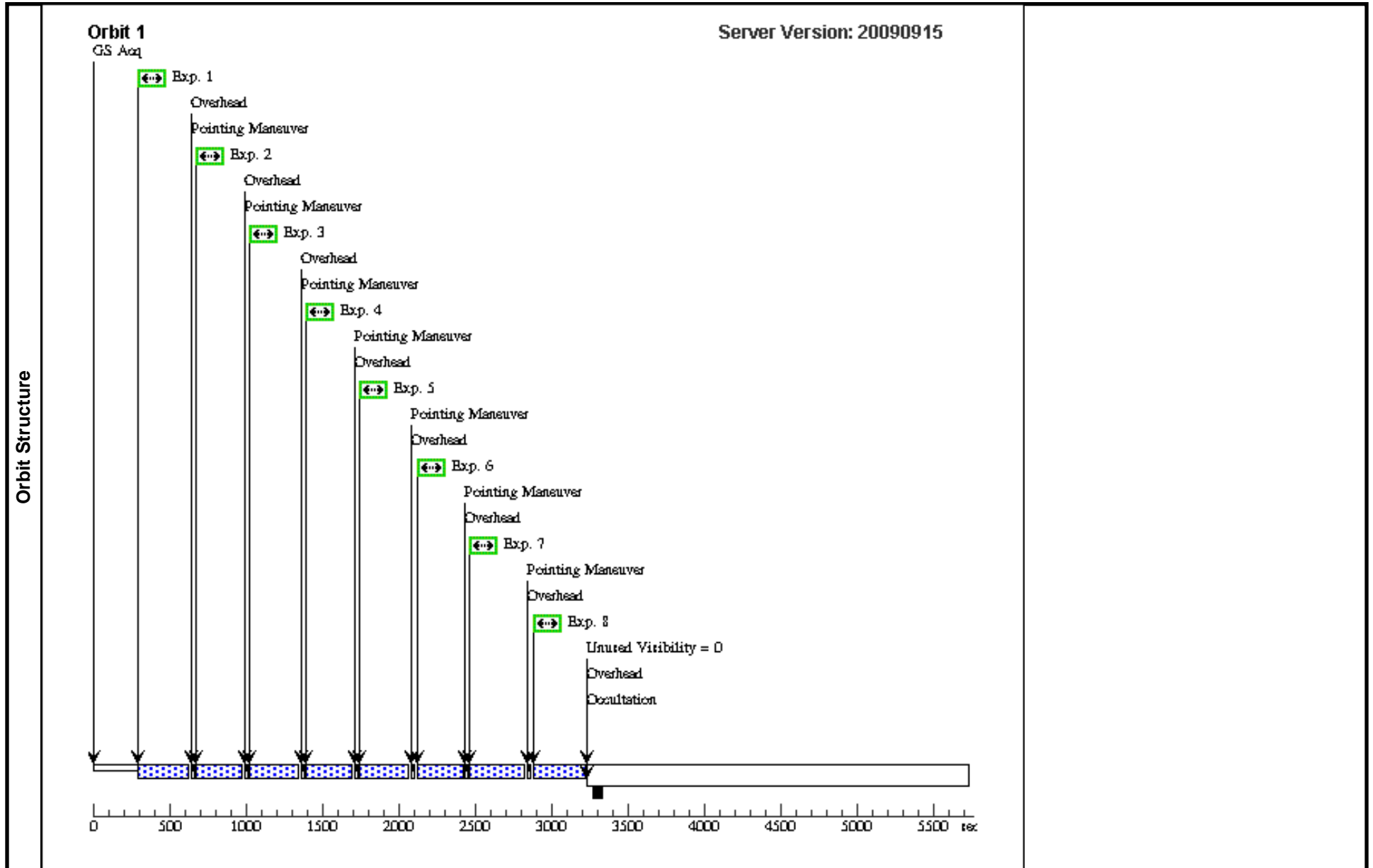
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	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(10)	SBS1102+606	RA: 11 05 53.7000 (166.4737500d) Dec: +60 22 28.70 (60.37464d) Equinox: J2000		V=23	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(10) SBS1102+606	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F438W	CR-SPLIT=NO				360 Secs [==>]	[1]
	2	(10) SBS1102+606	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F438W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			360 Secs [==>]	[1]
	3	(10) SBS1102+606	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO				317 Secs [==>]	[1]
	4	(10) SBS1102+606	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			317 Secs [==>]	[1]
	5	(10) SBS1102+606	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F814W	CR-SPLIT=NO				325 Secs [==>]	[1]
	6	(10) SBS1102+606	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F814W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			325 Secs [==>]	[1]



Proposal 12018 - Visit 11 - Ultra-Luminous x-Ray Sources in the Most Metal-Poor Galaxies

Sat Nov 07 02:13:00 GMT 2009

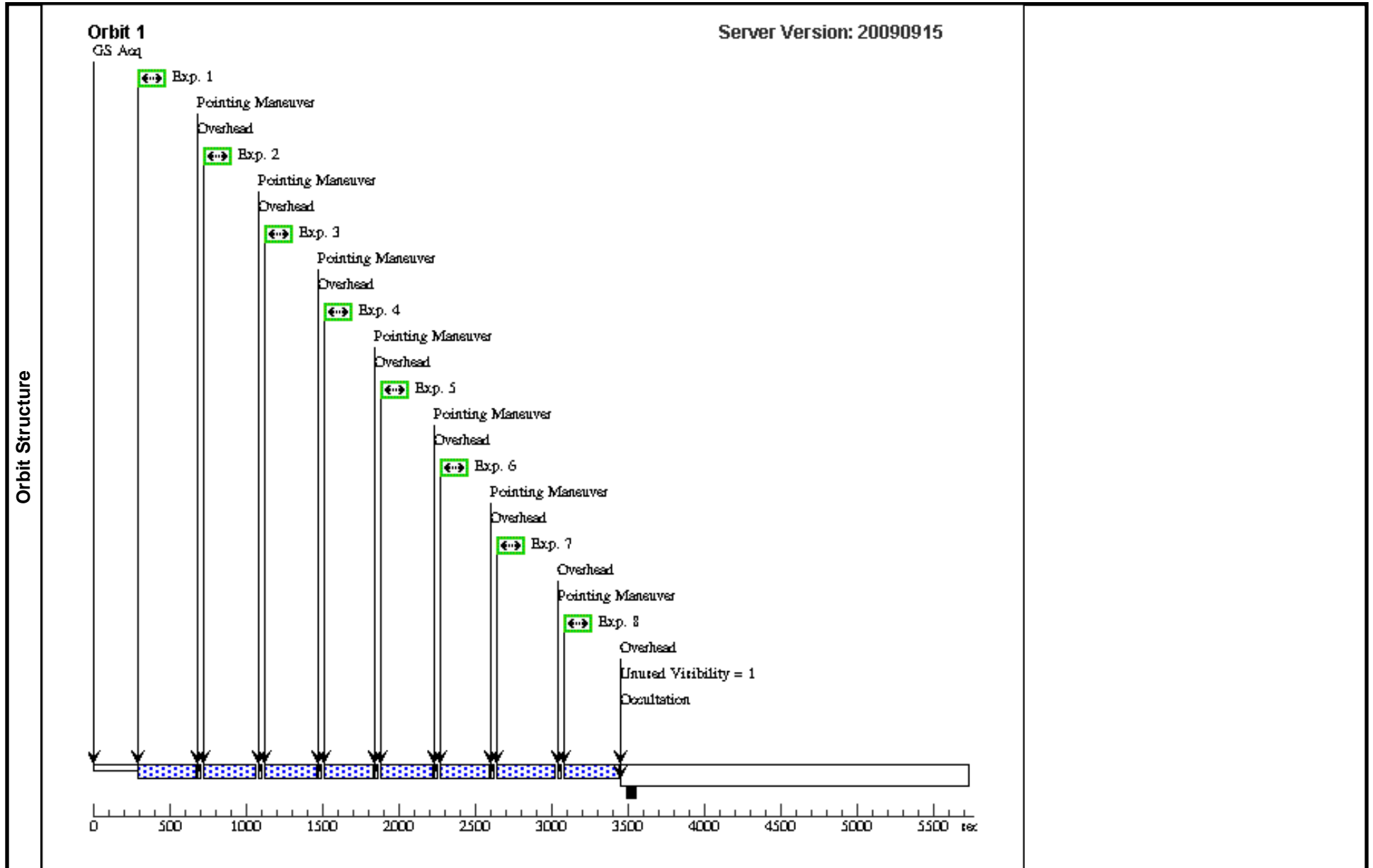
Visit	Proposal 12018, Visit 11, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(11)	SDSSJ120122.32+021108.5	RA: 12 01 22.3000 (180.3429167d) Dec: +02 11 8.30 (2.18564d) Equinox: J2000		V=23	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(11) SDSSJ120122.32+021108.5	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO			300 Secs [==>]	[1]
	2		(11) SDSSJ120122.32+021108.5	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		300 Secs [==>]	[1]
	3		(11) SDSSJ120122.32+021108.5	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO			300 Secs [==>]	[1]
	4		(11) SDSSJ120122.32+021108.5	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		300 Secs [==>]	[1]
	5		(11) SDSSJ120122.32+021108.5	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO			298 Secs [==>]	[1]
	6		(11) SDSSJ120122.32+021108.5	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		298 Secs [==>]	[1]
	7		(11) SDSSJ120122.32+021108.5	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO			340 Secs [==>]	[1]
	8		(11) SDSSJ120122.32+021108.5	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		340 Secs [==>]	[1]



Proposal 12018 - Visit 12 - Ultra-Luminous x-Ray Sources in the Most Metal-Poor Galaxies

Sat Nov 07 02:13:00 GMT 2009

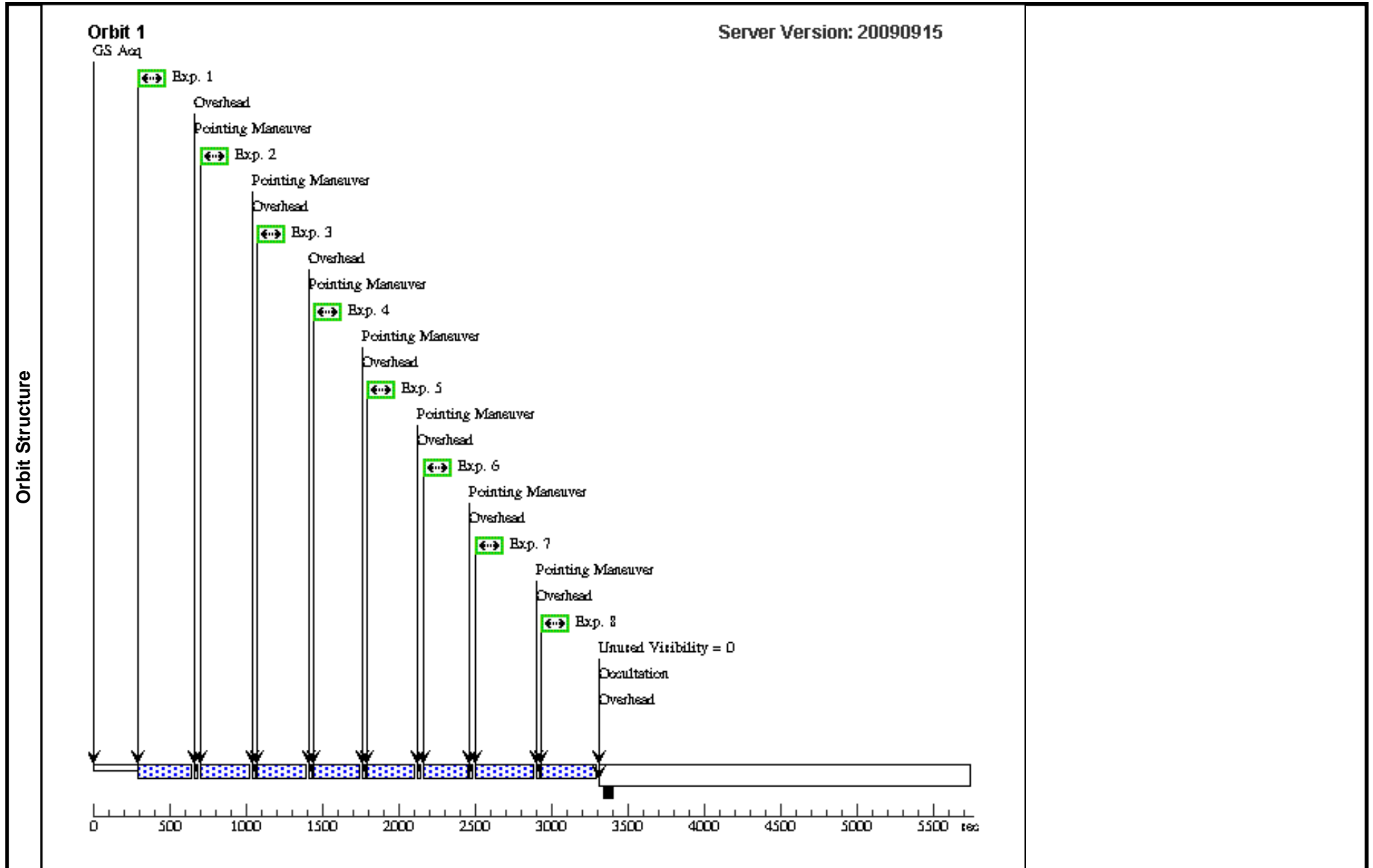
Visit	Proposal 12018, Visit 12, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(12)	A1116+51	RA: 11 19 34.4000 (169.8933333d) Dec: +51 30 12.10 (51.50336d) Equinox: J2000		V=23	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(12) A1116+51	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO				346 Secs [==>]	[1]
	2	(12) A1116+51	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			346 Secs [==>]	[1]
	3	(12) A1116+51	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO				320 Secs [==>]	[1]
	4	(12) A1116+51	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			320 Secs [==>]	[1]
	5	(12) A1116+51	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO				320 Secs [==>]	[1]
	6	(12) A1116+51	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			320 Secs [==>]	[1]
	7	(12) A1116+51	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO				360 Secs [==>]	[1]
	8	(12) A1116+51	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			360 Secs [==>]	[1]



Proposal 12018 - Visit 14 - Ultra-Luminous x-Ray Sources in the Most Metal-Poor Galaxies

Sat Nov 07 02:13:01 GMT 2009

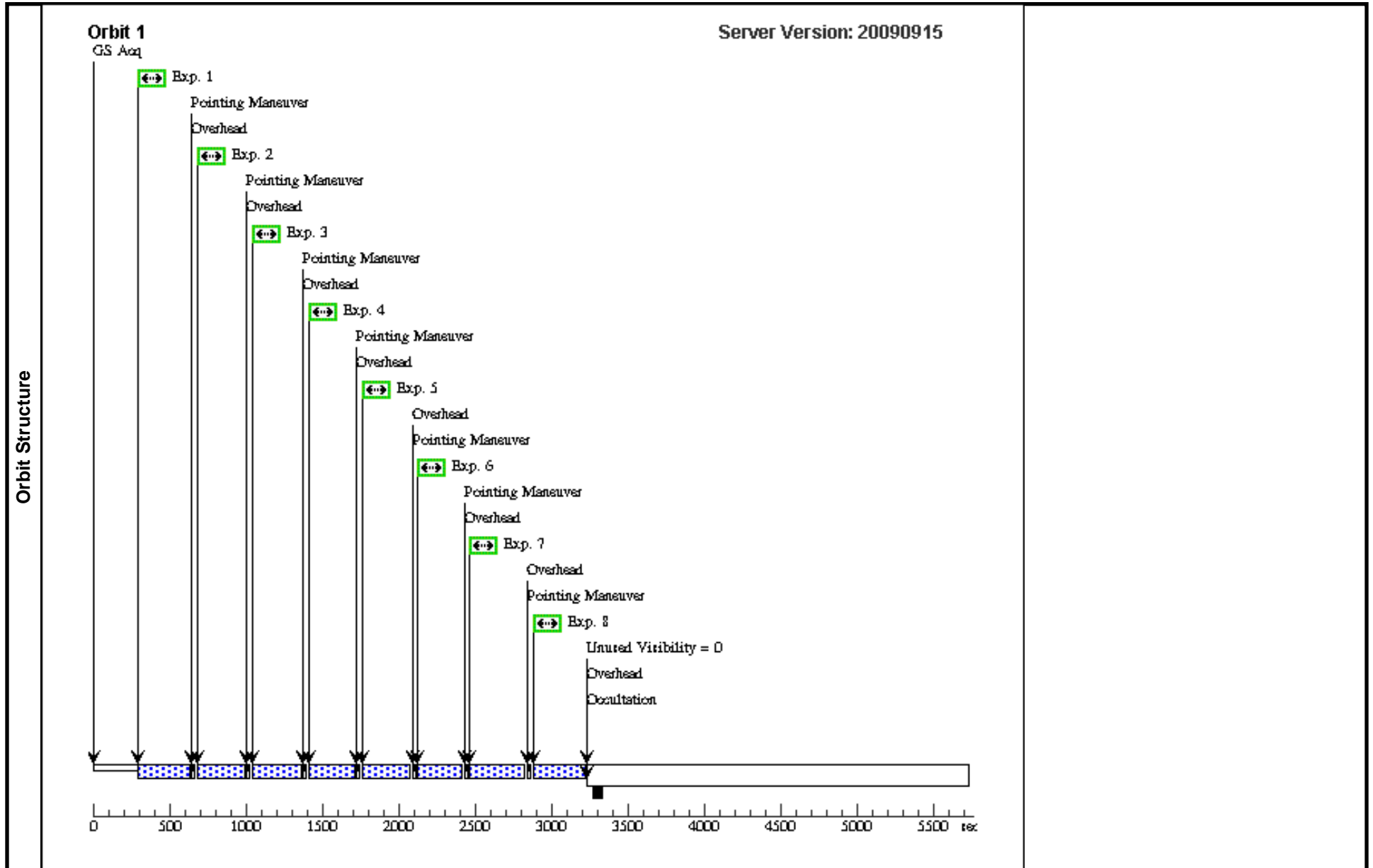
Visit	Proposal 12018, Visit 14, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(14)	KUG1013+381	RA: 10 16 24.5000 (154.1020833d) Dec: +37 54 46.00 (37.91278d) Equinox: J2000		V=23	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(14) KUG1013+381	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO				325 Secs [==>]	[1]
	2	(14) KUG1013+381	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			325 Secs [==>]	[1]
	3	(14) KUG1013+381	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO				300 Secs [==>]	[1]
	4	(14) KUG1013+381	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			300 Secs [==>]	[1]
	5	(14) KUG1013+381	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO				290 Secs [==>]	[1]
	6	(14) KUG1013+381	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			290 Secs [==>]	[1]
	7	(14) KUG1013+381	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO				360 Secs [==>]	[1]
	8	(14) KUG1013+381	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			360 Secs [==>]	[1]



Proposal 12018 - Visit 16 - Ultra-Luminous x-Ray Sources in the Most Metal-Poor Galaxies

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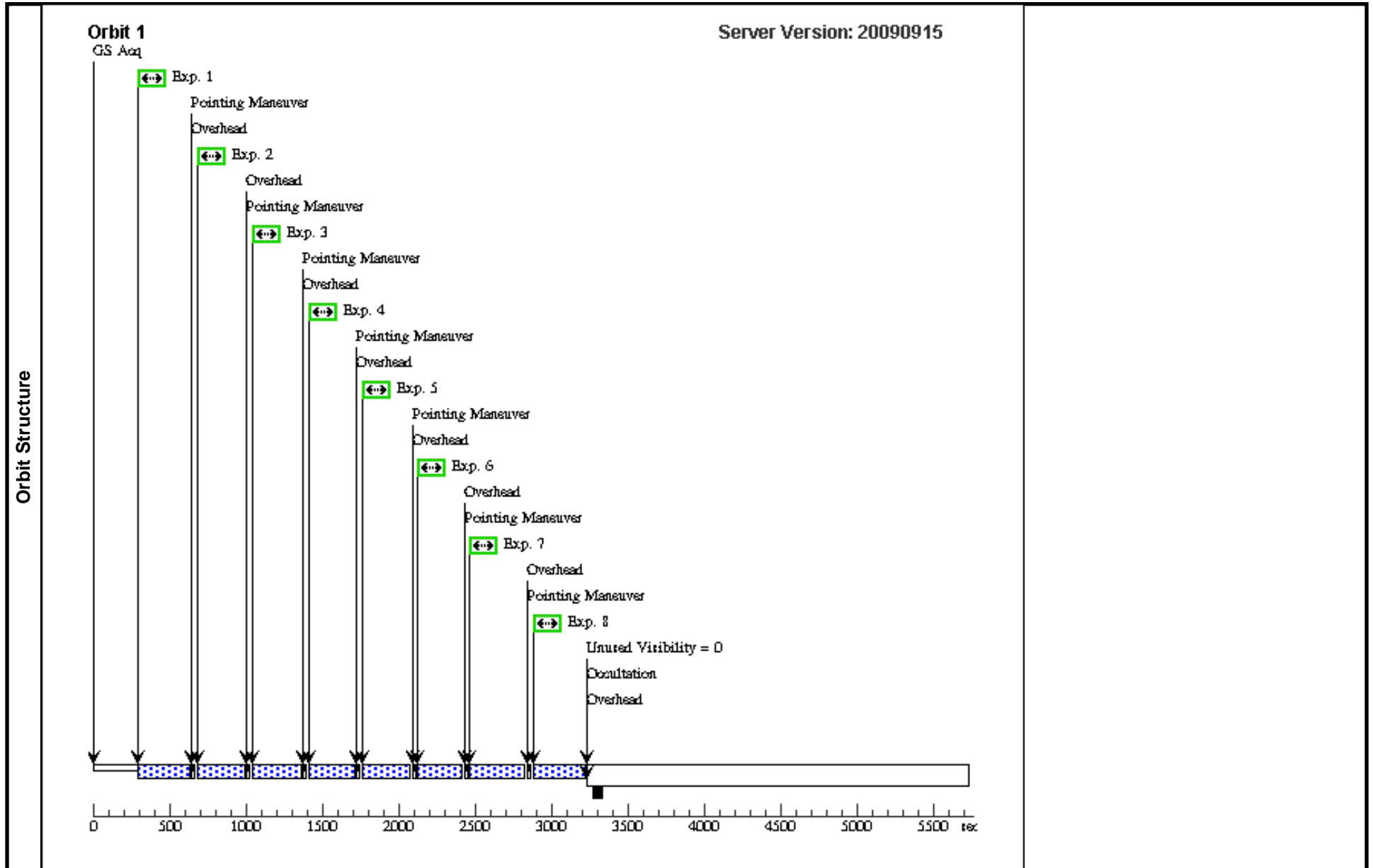
Visit	Proposal 12018, Visit 16, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(16)	SDSSJ141454.13-020822.9	RA: 14 14 54.0300 (213.7251250d) Dec: -02 08 19.38 (-2.13872d) Equinox: J2000		V=23	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(16) SDSSJ141454.13-020822.9	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO			308 Secs [==>]	[1]
	2		(16) SDSSJ141454.13-020822.9	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		308 Secs [==>]	[1]
	3		(16) SDSSJ141454.13-020822.9	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO			300 Secs [==>]	[1]
	4		(16) SDSSJ141454.13-020822.9	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		300 Secs [==>]	[1]
	5		(16) SDSSJ141454.13-020822.9	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO			290 Secs [==>]	[1]
	6		(16) SDSSJ141454.13-020822.9	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		290 Secs [==>]	[1]
	7		(16) SDSSJ141454.13-020822.9	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO			340 Secs [==>]	[1]
	8		(16) SDSSJ141454.13-020822.9	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO	POS TARG 0.0792,0.0796		340 Secs [==>]	[1]



Proposal 12018 - Visit 17 - Ultra-Luminous x-Ray Sources in the Most Metal-Poor Galaxies

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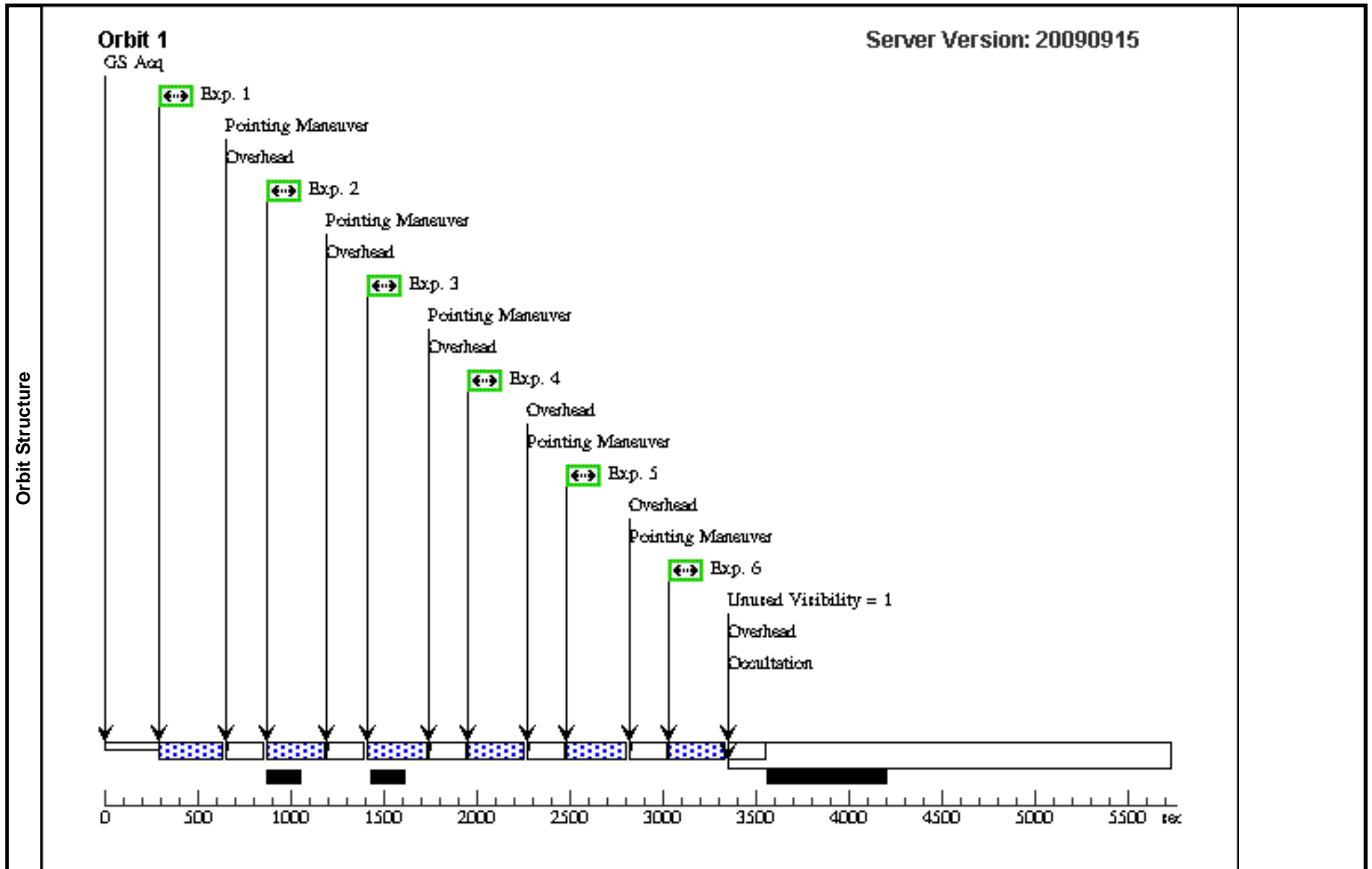
Visit	Proposal 12018, Visit 17, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(17)	SDSSJ223036.79-000636.9	RA: 22 30 36.8000 (337.6533333d) Dec: -00 06 37.00 (-.11028d) Equinox: J2000		V=23	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(17) SDSSJ223036.79-000636.9	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO	GS ACQ SCENARI O BASE1B3		308 Secs [==>]	[1]
	2		(17) SDSSJ223036.79-000636.9	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO	POS TARG 0.0792,0 .0792		308 Secs [==>]	[1]
	3		(17) SDSSJ223036.79-000636.9	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO			300 Secs [==>]	[1]
	4		(17) SDSSJ223036.79-000636.9	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796		300 Secs [==>]	[1]
	5		(17) SDSSJ223036.79-000636.9	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO			290 Secs [==>]	[1]
	6		(17) SDSSJ223036.79-000636.9	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796		290 Secs [==>]	[1]
	7		(17) SDSSJ223036.79-000636.9	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO			340 Secs [==>]	[1]
	8		(17) SDSSJ223036.79-000636.9	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796		340 Secs [==>]	[1]



Proposal 12018 - Visit 18 - Ultra-Luminous x-Ray Sources in the Most Metal-Poor Galaxies

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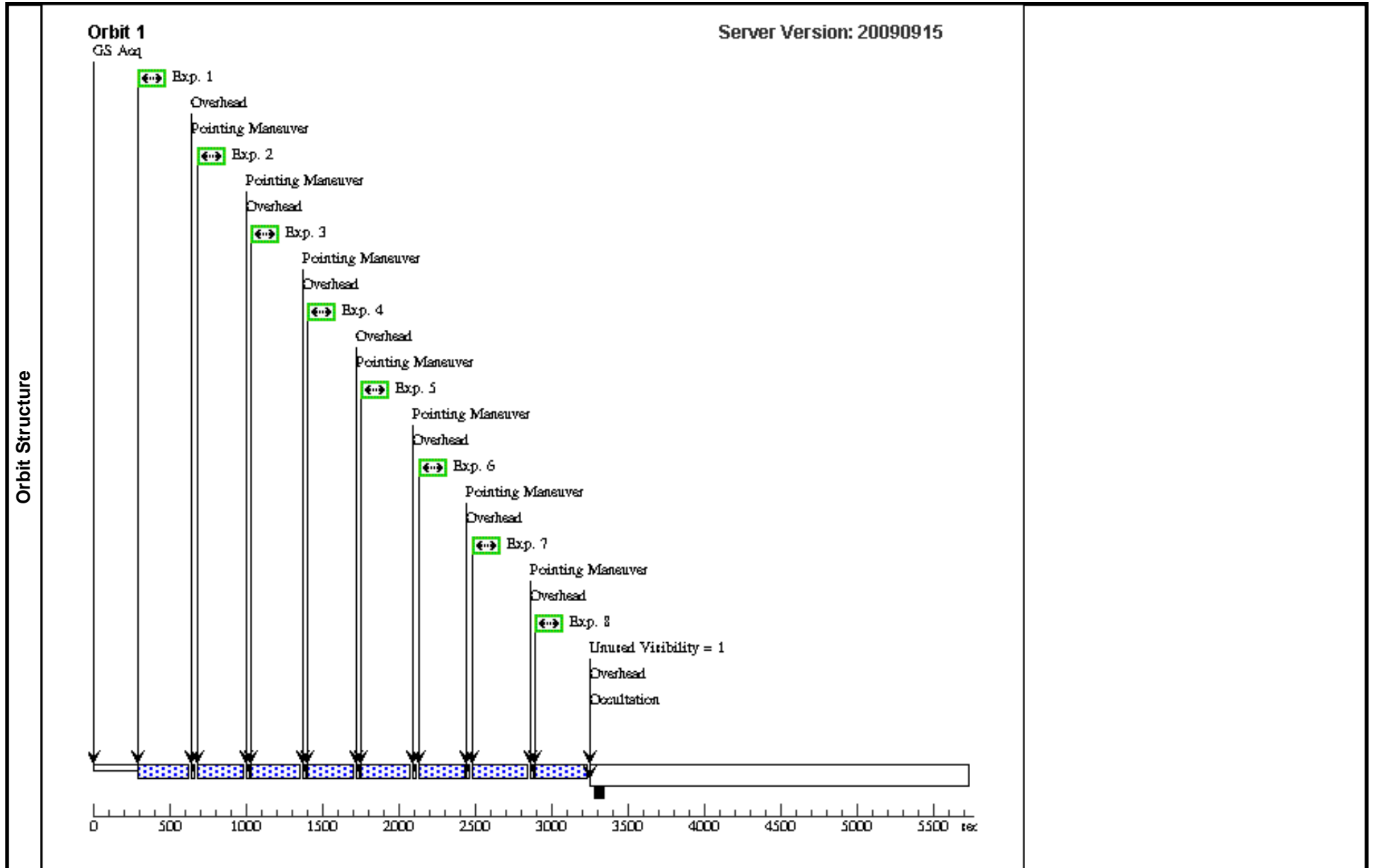
Visit	Proposal 12018, Visit 18, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 45D TO 140 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(18)	HS1442+4250	RA: 14 44 12.8000 (221.0533333d) Dec: +42 37 44.00 (42.62889d) Equinox: J2000		V=23	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(18) HS1442+4250	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F438W	CR-SPLIT=NO				313 Secs [==>]	[1]
	2	(18) HS1442+4250	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F438W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			313 Secs [==>]	[1]
	3	(18) HS1442+4250	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO				300 Secs [==>]	[1]
	4	(18) HS1442+4250	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			300 Secs [==>]	[1]
	5	(18) HS1442+4250	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F814W	CR-SPLIT=NO				300 Secs [==>]	[1]
	6	(18) HS1442+4250	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F814W	CR-SPLIT=NO	POS TARG 0.0792,0 .0792			300 Secs [==>]	[1]



Proposal 12018 - Visit 19 - Ultra-Luminous x-Ray Sources in the Most Metal-Poor Galaxies

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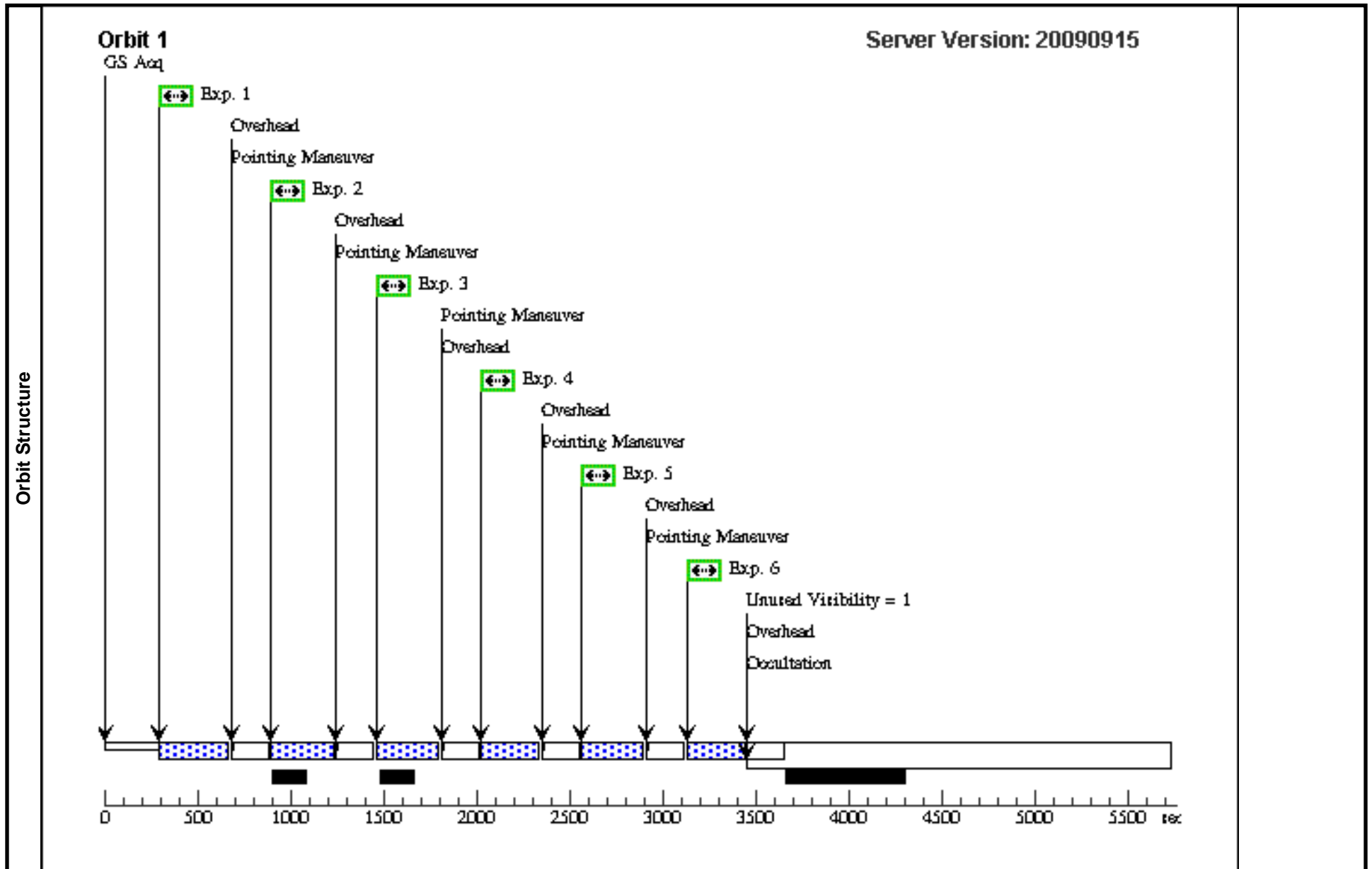
Visit	Proposal 12018, Visit 19, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(19)	KUG0201-103	RA: 02 04 25.6800 (31.1070000d) Dec: -10 09 35.00 (-10.15972d) Equinox: J2000		V=23	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(19) KUG0201-103	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO				305 Secs [==>]	[1]
	2	(19) KUG0201-103	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			305 Secs [==>]	[1]
	3	(19) KUG0201-103	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO				300 Secs [==>]	[1]
	4	(19) KUG0201-103	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			300 Secs [==>]	[1]
	5	(19) KUG0201-103	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO				300 Secs [==>]	[1]
	6	(19) KUG0201-103	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			300 Secs [==>]	[1]
	7	(19) KUG0201-103	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO				340 Secs [==>]	[1]
	8	(19) KUG0201-103	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			340 Secs [==>]	[1]



Proposal 12018 - Visit 20 - Ultra-Luminous x-Ray Sources in the Most Metal-Poor Galaxies

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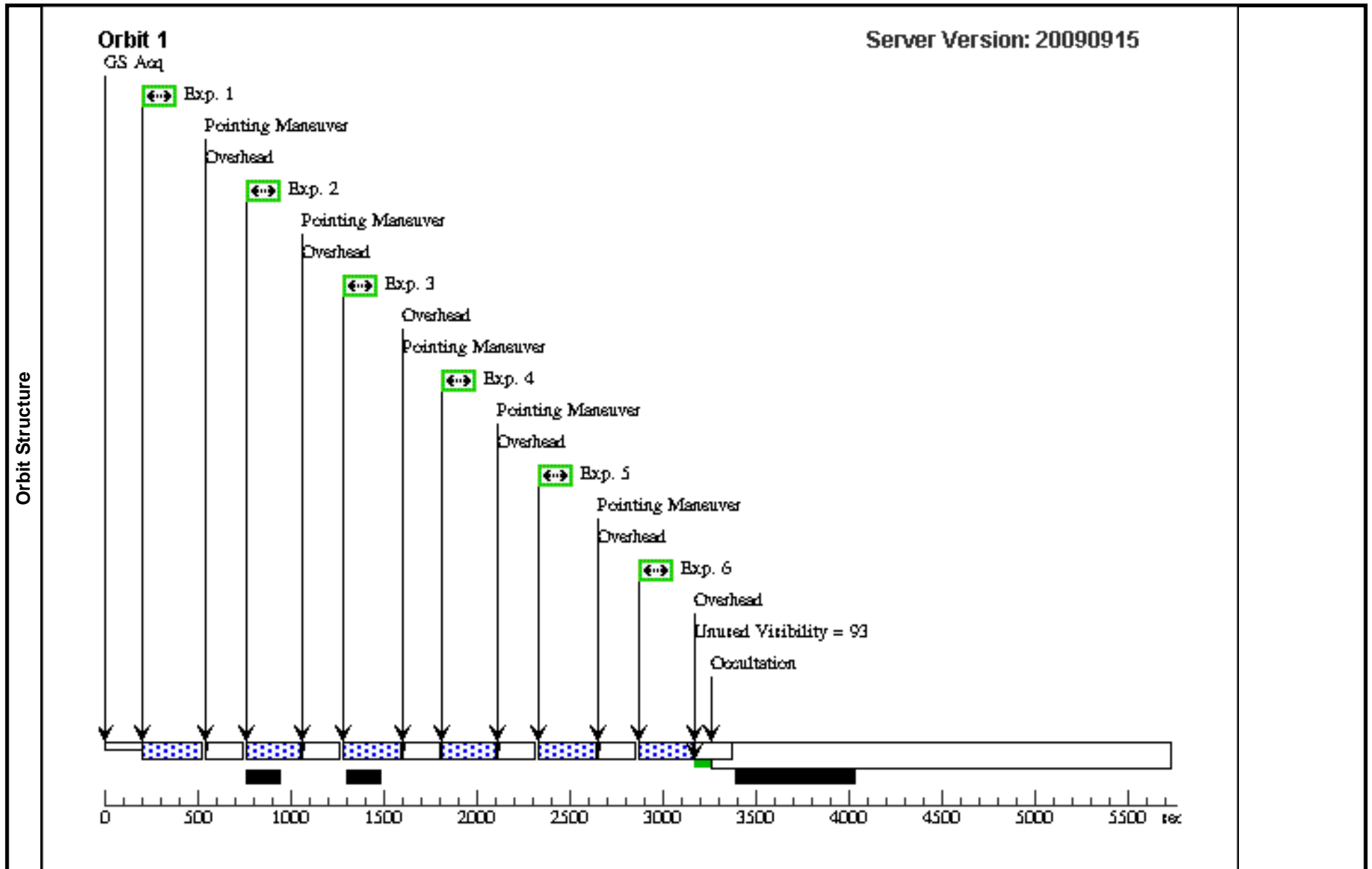
Visit	Proposal 12018, Visit 20, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 45D TO 140 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(20)	KUG0743+513	RA: 07 47 32.1000 (116.8837500d) Dec: +51 11 28.20 (51.19117d) Equinox: J2000		V=23	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(20) KUG0743+513	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F438W	CR-SPLIT=NO				339 Secs [==>]	[1]
	2	(20) KUG0743+513	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F438W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			339 Secs [==>]	[1]
	3	(20) KUG0743+513	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO				315 Secs [==>]	[1]
	4	(20) KUG0743+513	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			315 Secs [==>]	[1]
	5	(20) KUG0743+513	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F814W	CR-SPLIT=NO				310 Secs [==>]	[1]
	6	(20) KUG0743+513	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F814W	CR-SPLIT=NO	POS TARG 0.0792,0 .0792			310 Secs [==>]	[1]



Proposal 12018 - Visit 21 - Ultra-Luminous x-Ray Sources in the Most Metal-Poor Galaxies

Sat Nov 07 02:13:03 GMT 2009

Visit	Proposal 12018, Visit 21, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 45D TO 140 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(21)	KUG0937+298	RA: 09 40 12.8000 (145.0533333d) Dec: +29 35 30.30 (29.59175d) Equinox: J2000		V=23	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(21) KUG0937+298	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F438W	CR-SPLIT=NO	GS ACQ SCENARI O SINGLE	295 Secs [==>]		[1]	
	2	(21) KUG0937+298	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F438W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796	295 Secs [==>]		[1]	
	3	(21) KUG0937+298	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO		288 Secs [==>]		[1]	
	4	(21) KUG0937+298	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796	288 Secs [==>]		[1]	
	5	(21) KUG0937+298	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F814W	CR-SPLIT=NO		288 Secs [==>]		[1]	
	6	(21) KUG0937+298	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F814W	CR-SPLIT=NO	POS TARG 0.0792,0 .0792	288 Secs [==>]		[1]	



Proposal 12018 - Visit 22 - Ultra-Luminous x-Ray Sources in the Most Metal-Poor Galaxies

Sat Nov 07 02:13:03 GMT 2009

Visit	Proposal 12018, Visit 22, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(22)	KUG0942+551	RA: 09 46 22.8800 (146.5953333d) Dec: +54 52 8.80 (54.86911d) Equinox: J2000		V=23	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(22) KUG0942+551	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO				340 Secs [==>]	[1]
	2	(22) KUG0942+551	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F438W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			340 Secs [==>]	[1]
	3	(22) KUG0942+551	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO				320 Secs [==>]	[1]
	4	(22) KUG0942+551	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F606W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			320 Secs [==>]	[1]
	5	(22) KUG0942+551	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO				320 Secs [==>]	[1]
	6	(22) KUG0942+551	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F814W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			320 Secs [==>]	[1]
	7	(22) KUG0942+551	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO				366 Secs [==>]	[1]
	8	(22) KUG0942+551	WFC3/UVIS, ACCUM, UVIS1-C512A-SUB	F336W	CR-SPLIT=NO	POS TARG 0.0792,0 .0796			366 Secs [==>]	[1]

