



11636 - First Resolved Imaging of Escaping Lyman Continuum

Cycle: 17, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Brian Siana (PI)	Jet Propulsion Laboratory	bsiana@ipac.caltech.edu
Prof. Alice E. Shapley (CoI)	University of California - Los Angeles	aes@astro.ucla.edu
Dr. Harry Teplitz (CoI)	California Institute of Technology	hit@ipac.caltech.edu
Dr. Harry C. Ferguson (CoI)	Space Telescope Science Institute	ferguson@stsci.edu
Prof. Charles C. Steidel (CoI)	California Institute of Technology	ccs@astro.caltech.edu
Prof. Mauro Giavalisco (CoI)	University of Massachusetts	mauro@astro.umass.edu
Dr. Mark Dickinson (CoI)	National Optical Astronomy Observatories, AURA	med@noao.edu
Dr. Duilia F. de Mello (CoI)	Catholic University of America	duilia.f.demello@nasa.gov
Dr. Thomas M. Brown (CoI)	Space Telescope Science Institute	tbrown@stsci.edu
Dr. Carrie R. Bridge (CoI)	California Institute of Technology	bridge@ipac.caltech.edu
Dr. Jonathan P. Gardner (CoI)	NASA Goddard Space Flight Center	jonathan.p.gardner@nasa.gov
Dr. James Colbert (CoI)	California Institute of Technology	colbert@ipac.caltech.edu
Dr. Christopher J. Conselice (CoI) (ESA Member)	University of Nottingham	conselice@nottingham.ac.uk

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) SSA-22A ANY	ACS/WFC WFC3/UVIS	2	12-Mar-2010 21:01:14.0	yes
02	(1) SSA-22A ANY	ACS/WFC WFC3/UVIS	2	12-Mar-2010 21:01:22.0	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>
03	(1) SSA-22A ANY	ACS/WFC WFC3/UVIS	2	12-Mar-2010 21:01:30.0	yes
04	(1) SSA-22A ANY	ACS/WFC WFC3/UVIS	2	12-Mar-2010 21:01:36.0	yes
05	(1) SSA-22A ANY	ACS/WFC WFC3/UVIS	2	12-Mar-2010 21:01:41.0	yes
06	(1) SSA-22A ANY	ACS/WFC WFC3/UVIS	2	12-Mar-2010 21:01:47.0	yes
07	(1) SSA-22A ANY	ACS/WFC WFC3/UVIS	2	12-Mar-2010 21:01:52.0	yes
08	(1) SSA-22A ANY	ACS/WFC WFC3/UVIS	2	12-Mar-2010 21:01:59.0	yes
09	(1) SSA-22A ANY	ACS/WFC WFC3/UVIS	2	12-Mar-2010 21:02:04.0	yes
10	(1) SSA-22A ANY	ACS/WFC WFC3/UVIS	2	12-Mar-2010 21:02:09.0	yes
11	(1) SSA-22A ANY	ACS/WFC WFC3/UVIS	2	12-Mar-2010 21:02:15.0	yes
12	(1) SSA-22A ANY	ACS/WFC WFC3/UVIS	2	12-Mar-2010 21:02:20.0	yes
13	(1) SSA-22A ANY	ACS/WFC WFC3/UVIS	2	12-Mar-2010 21:02:26.0	yes
14	(1) SSA-22A ANY	ACS/WFC WFC3/UVIS	2	12-Mar-2010 21:02:31.0	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>
15	(1) SSA-22A ANY	ACS/WFC WFC3/UVIS	2	12-Mar-2010 21:02:36.0	yes
16	(1) SSA-22A ANY	ACS/WFC WFC3/UVIS	2	12-Mar-2010 21:02:41.0	yes
17	(1) SSA-22A	ACS/WFC	2	12-Mar-2010 21:02:47.0	yes
18	(1) SSA-22A ANY	ACS/WFC WFC3/UVIS	1	12-Mar-2010 21:02:51.0	yes
19	(2) SSA-22A-IR ANY	ACS/WFC WFC3/IR	2	12-Mar-2010 21:02:58.0	yes
20	(3) SSA-22A-IR2 ANY	ACS/WFC WFC3/IR	2	12-Mar-2010 21:03:06.0	yes

39 Total Orbits Used

ABSTRACT

The emission from star-forming galaxies appears to be responsible for reionization of the universe at $z > 6$. However, the models that attempt to describe the detailed impact of high-redshift galaxies on the surrounding inter-galactic medium (IGM) are strongly dependent upon several uncertain parameters. Perhaps the most uncertain is the fraction of HI-ionizing photons produced by young stars that escape into the IGM. Most attempts to measure this "escape fraction" have produced null results. Recently, a small subset of $z \sim 3$ Lyman Break Galaxies (LBGs) has been found exhibiting large escape fractions. It remains unclear however, what differentiates them from other LBGs. Several models attempt to explain how such a large fraction of ionizing continuum can escape through the HI and dust in the ISM (eg. "chimneys" created by SNe winds, globular cluster formation, etc.), each producing unique signatures which can be observed with resolved imaging of the escaping Lyman continuum. To date, there are only six LBGs with individual detections of escaping Lyman continuum at any redshift. We propose a single deep, high resolution WFC3/UVIS image of the ionizing continuum (F336W) and the rest-frame UV/optical (F606W/F814W/F160W) of five of these six LBGs with large escape fractions. These LBGs have a high surface density and large escape fractions, and lie at the optimal redshift for Lyman continuum imaging with UVIS filters, making

our sample especially suitable for follow-up. With these data we will discern the mechanisms responsible for producing large escape fractions, and therefore gain insight into the process of reionization.

OBSERVING DESCRIPTION

We were allotted 39 orbits to take a deep (~33 orbit) F336W image, with six more orbits for F606W, F814W, F110W, and F160W (1 orbit each) with WFC3/UVIS and WFC3/IR. In addition, we were given parallel ACS imaging to follow-up on the existing cluster of LBGs in this field.

The WFC3 strategy is to do long (half-orbit) exposures in a 4-point dither pattern spread during 2-orbit visits. Each visit will have pos_targ offsets of order 1-2" in order to have the objects on different parts of the detector each time.

The parallels are split up into several components. 8 orbits using the F505N ramp filter to image a Lyman alpha blob in the field. 2 orbits using the F475W filter for continuum subtraction from the line detected in the ramp filter. 13 orbits of F606W and 16 orbits of F814W to investigate the UV colors and morphologies of faint LBGs in the field. Nearly all of the visits are constrained to have the same orientation so the parallels cover the same field.

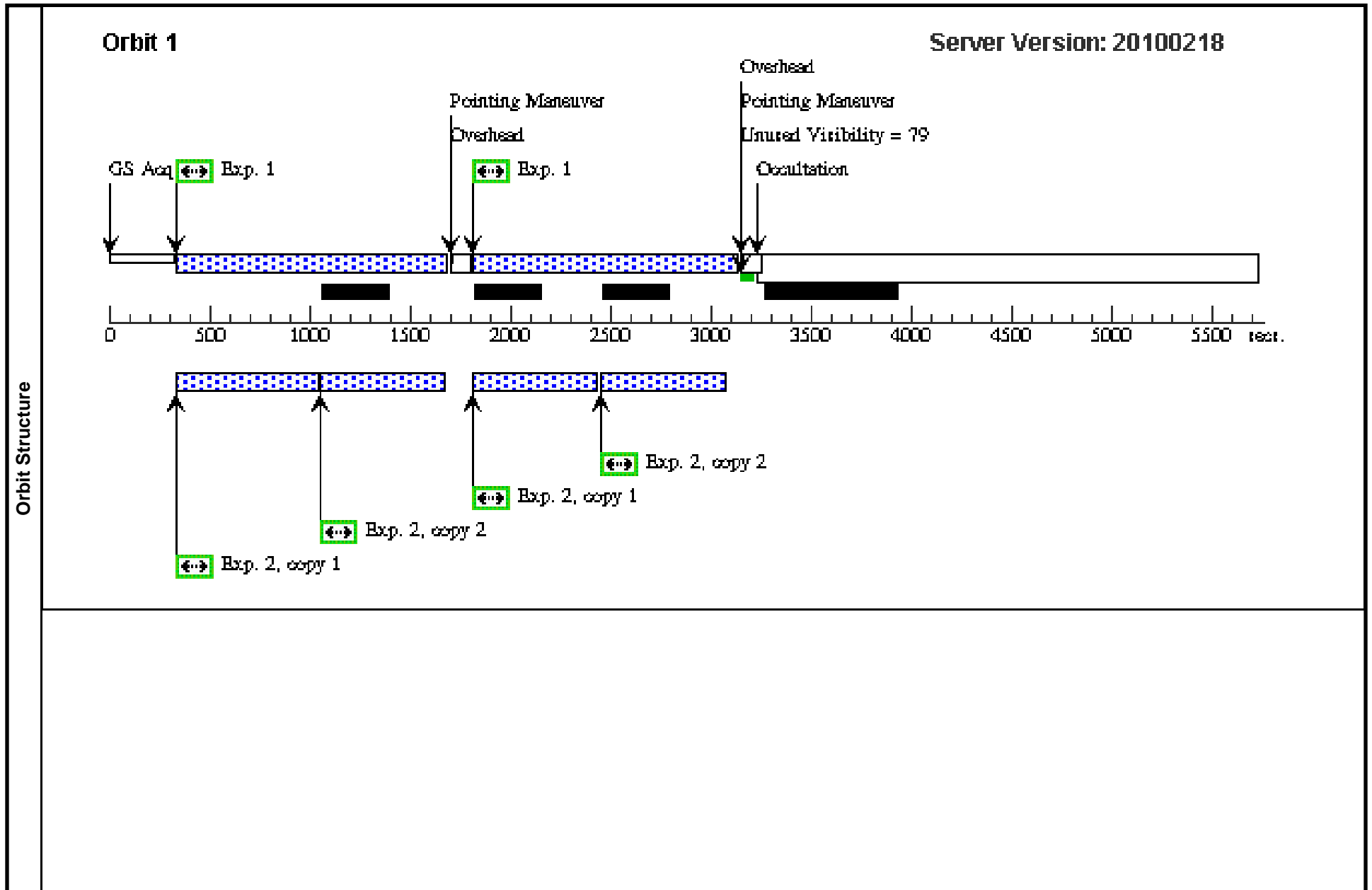
ADDITIONAL COMMENTS

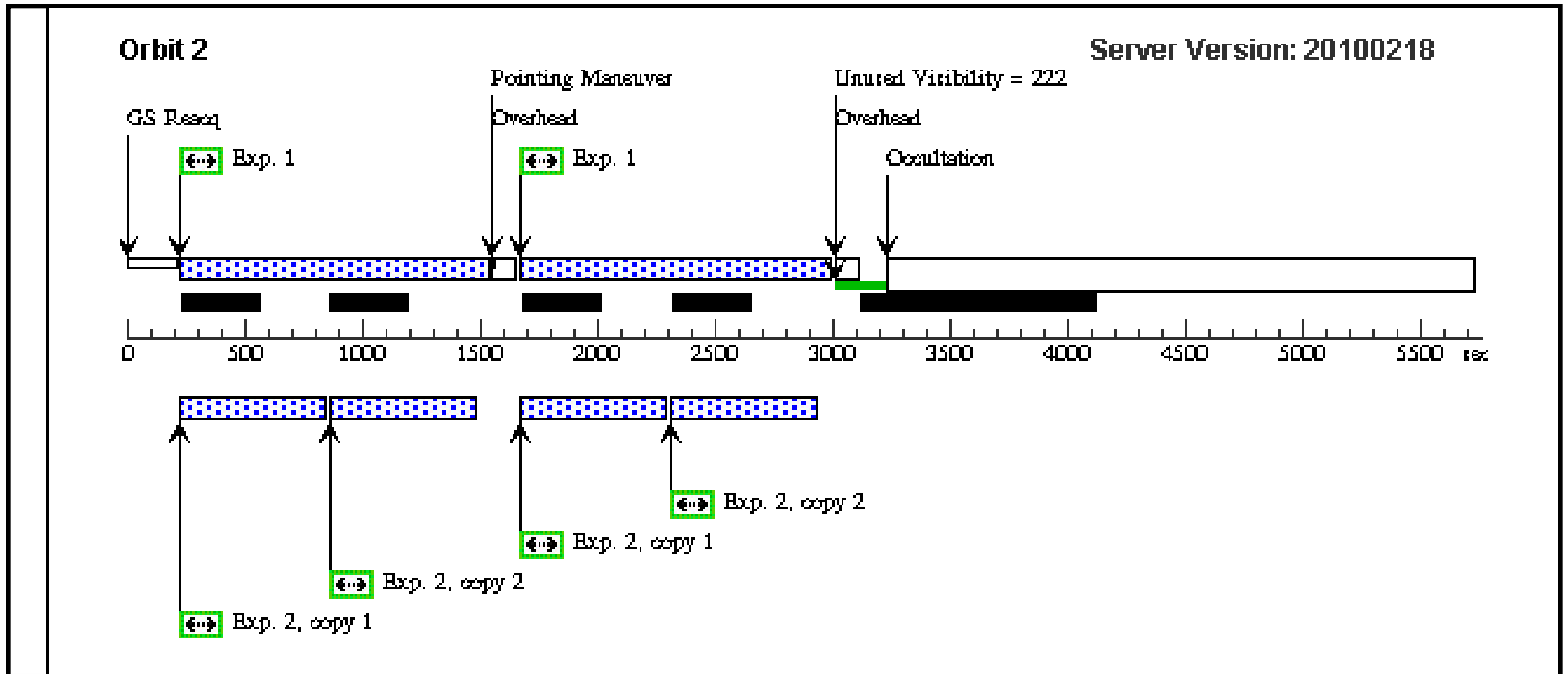
We accidentally requested 1 orbit of F606W and 1 orbit of F814W with UVIS, but meant to request these images with ACS (as it is much more sensitive at these wavelengths). We have submitted a change request, but haven't had a response yet, so we are submitting the observations with WFC3 images, as allotted in the original proposal.

Proposal 11636 - Visit 01 - First Resolved Imaging of Escaping Lyman Continuum

Sat Mar 13 02:03:12 GMT 2010

Visit	Proposal 11636, Visit 01, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 256.6D TO 256.6 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(1-2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SSA-22A	RA: 22 17 23.3227 (334.3471779d) Dec: +00 17 24.44 (.29012d) Equinox: J2000		V=24.5+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) SSA-22A	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG -0.7900, 0.92167; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	1325. Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1] [2]
	2		ANY	ACS/WFC, ACCUM, WFC	F606W			Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	500 Secs X 2 [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]	[1] [2]

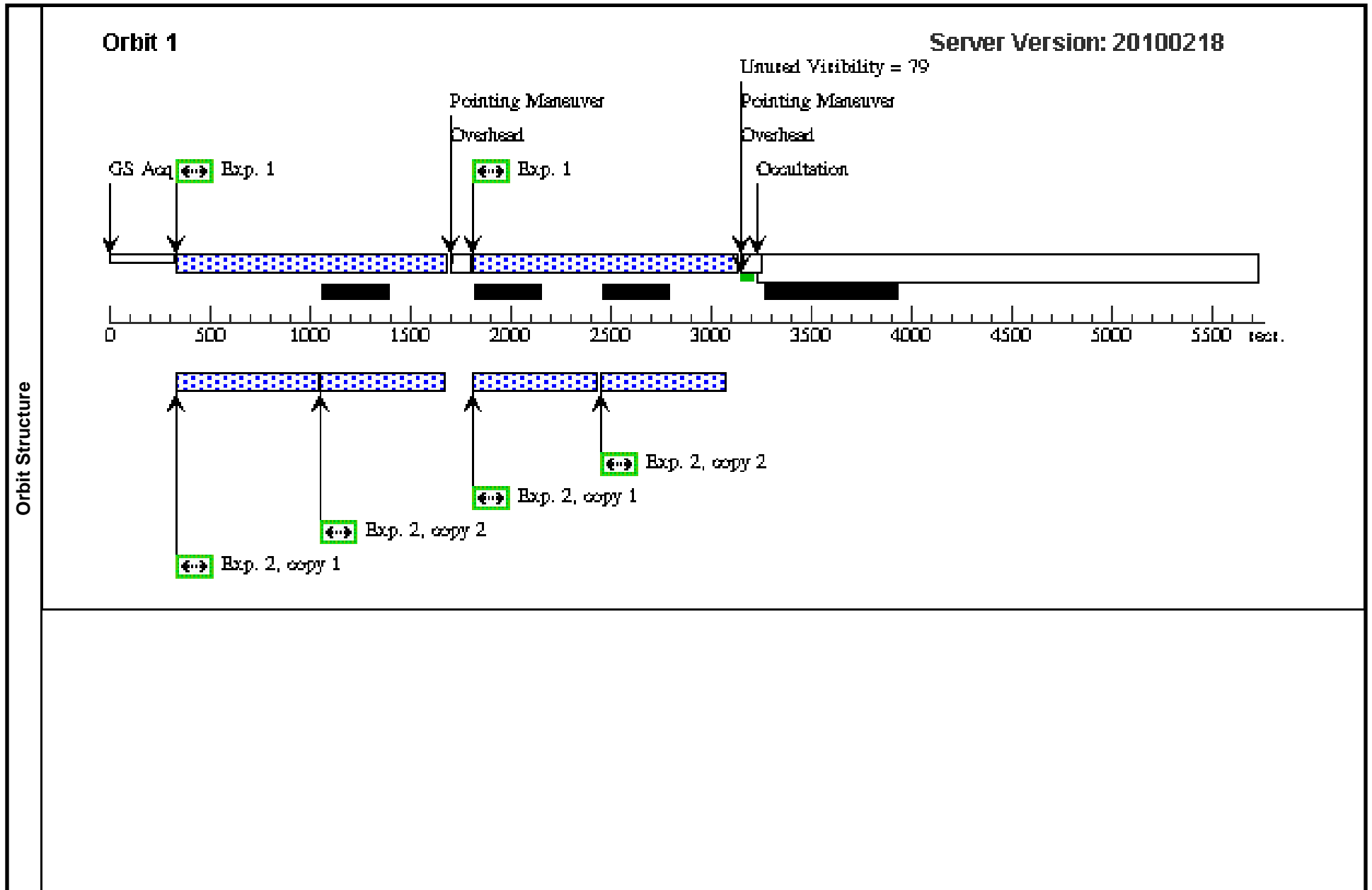


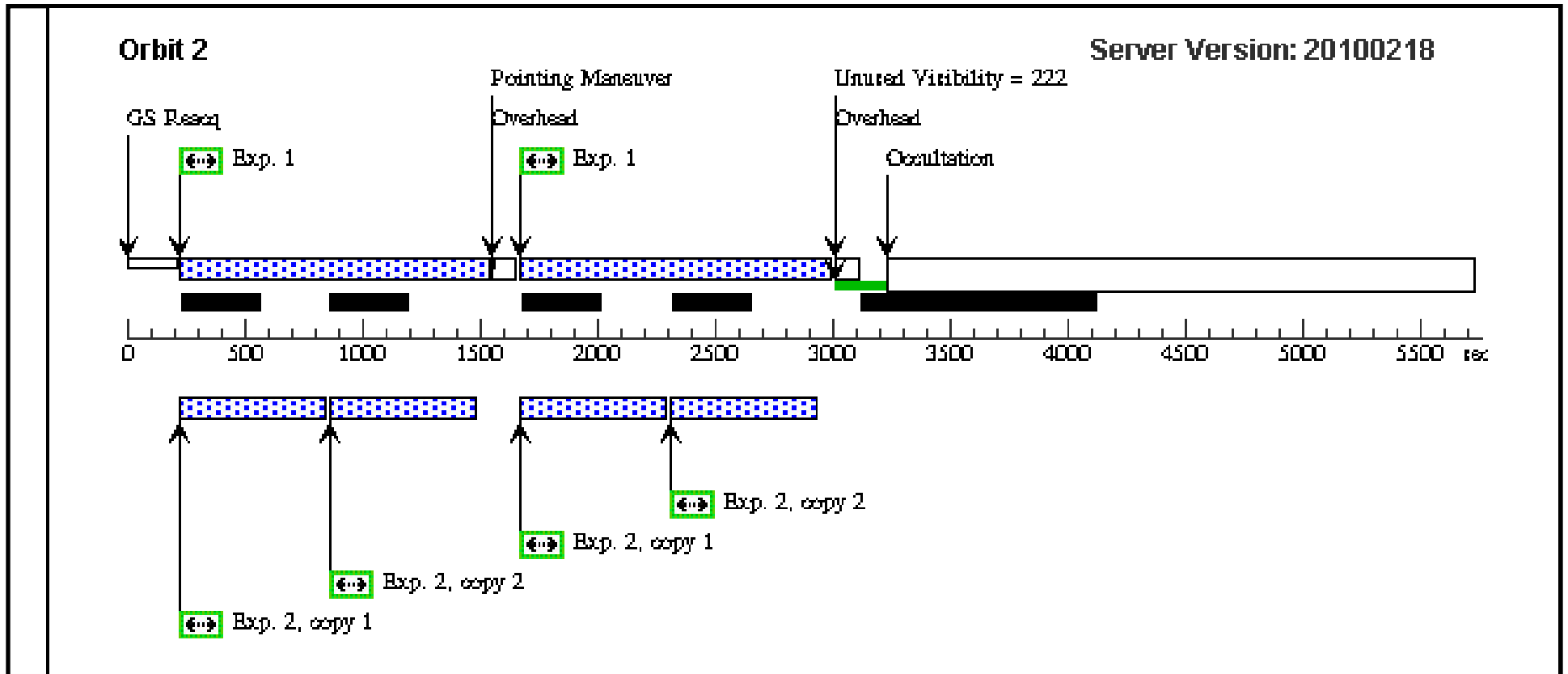


Proposal 11636 - Visit 02 - First Resolved Imaging of Escaping Lyman Continuum

Sat Mar 13 02:03:13 GMT 2010

Visit	Proposal 11636, Visit 02, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 256.6D TO 256.6 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SSA-22A	RA: 22 17 23.3227 (334.3471779d) Dec: +00 17 24.44 (.29012d) Equinox: J2000		V=24.5+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) SSA-22A	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG -0.2633, 1.0533; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	1325 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1] [2]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	500 Secs X 2 [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]	[1] [2]

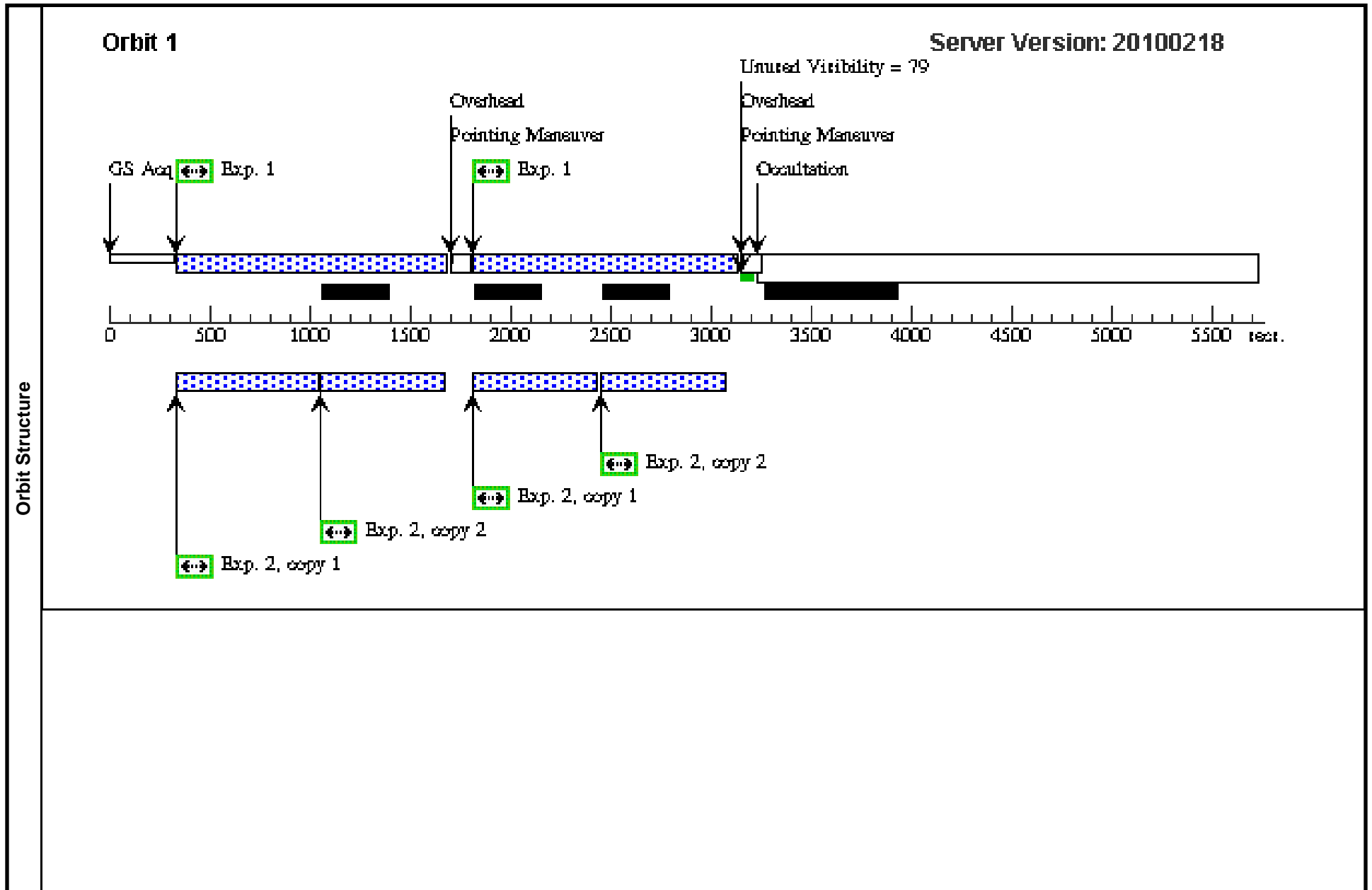


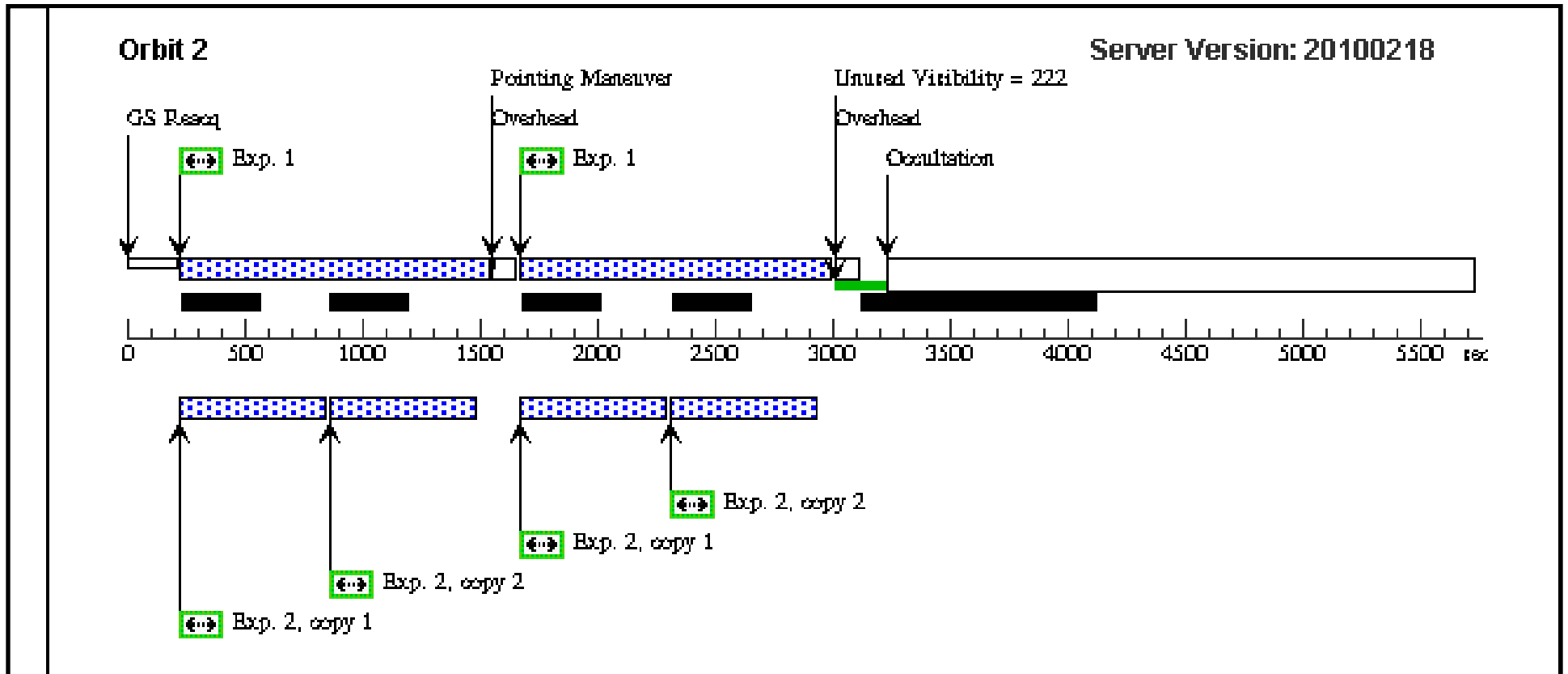


Proposal 11636 - Visit 03 - First Resolved Imaging of Escaping Lyman Continuum

Sat Mar 13 02:03:14 GMT 2010

Visit	Proposal 11636, Visit 03, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 256.6D TO 256.6 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SSA-22A	RA: 22 17 23.3227 (334.3471779d) Dec: +00 17 24.44 (.29012d) Equinox: J2000		V=24.5+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) SSA-22A	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG -1.1850, 0.2633; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	1325. Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1] [2]
	2		ANY	ACS/WFC, ACCUM, WFC	F606W			Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	500 Secs X 2 [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]	[1] [2]

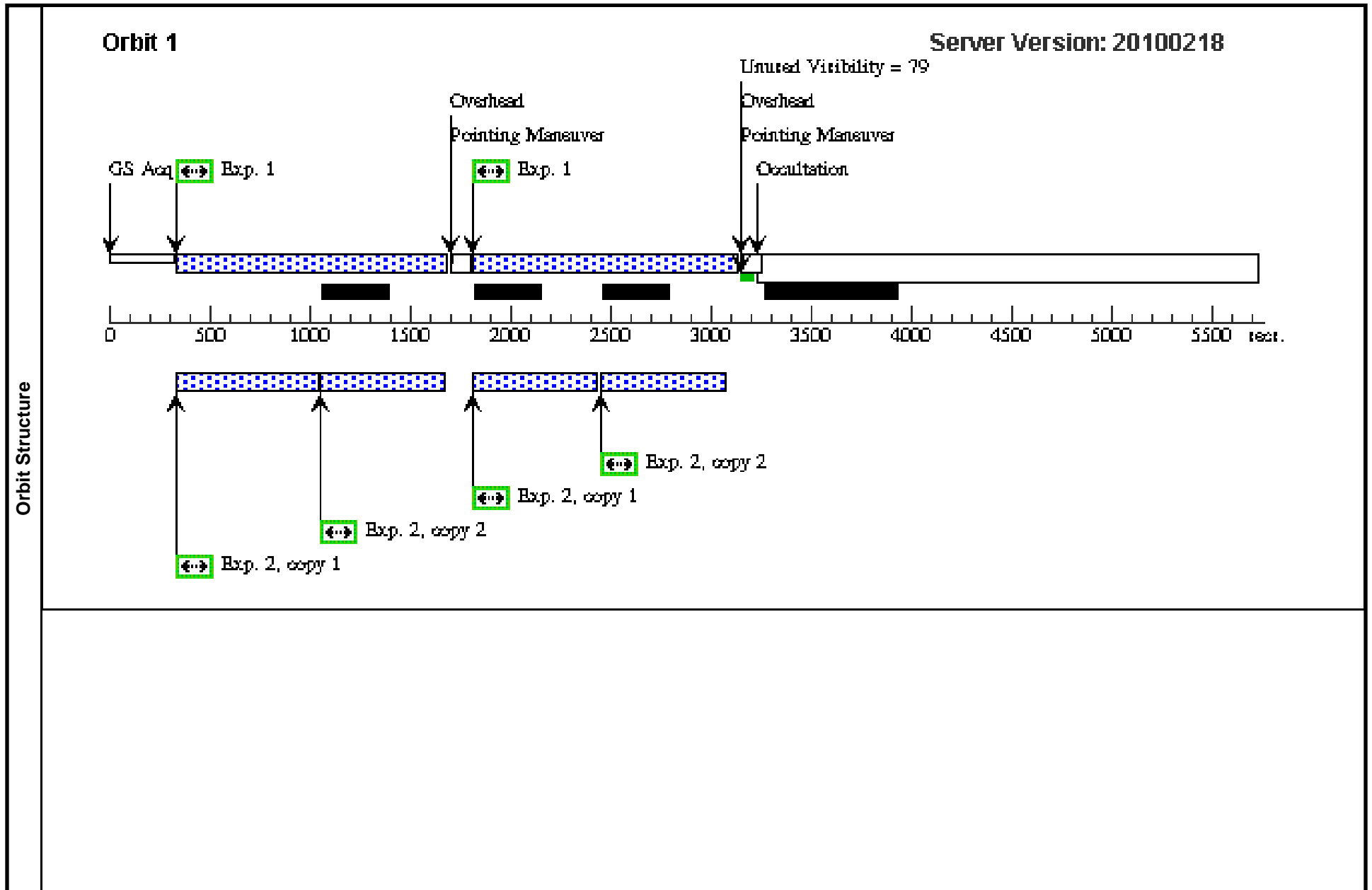


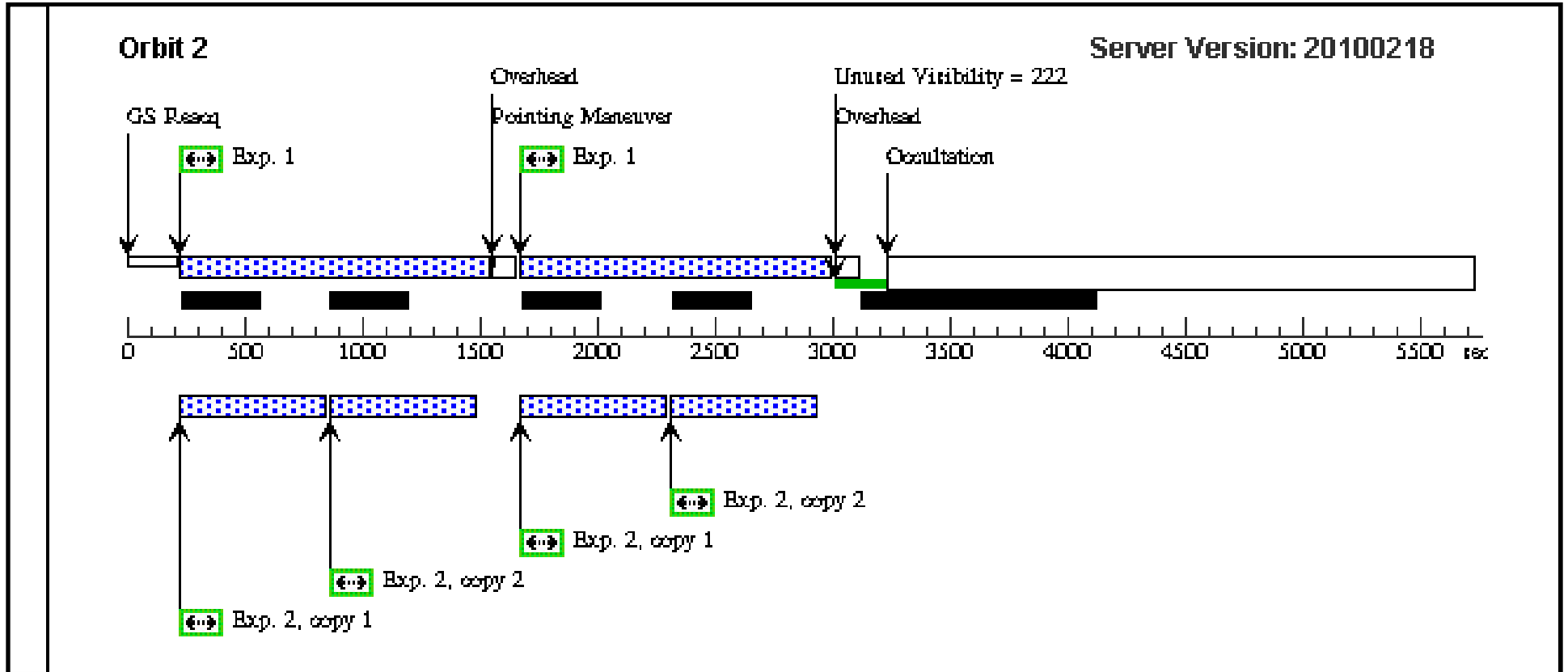


Proposal 11636 - Visit 04 - First Resolved Imaging of Escaping Lyman Continuum

Sat Mar 13 02:03:14 GMT 2010

Visit		Proposal 11636, Visit 04, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 256.6D TO 256.6 D								
Patterns	#	Primary Pattern		Secondary Pattern			Exposures			
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false				(1-2)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SSA-22A	RA: 22 17 23.3227 (334.3471779d) Dec: +00 17 24.44 (.29012d) Equinox: J2000		V=24.5+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) SSA-22A		WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG -0.6583 3,0.3950; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	1325. Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1] [2]
	2	ANY		ACS/WFC, ACCUM, WFC1-MRAMP	FR505N 4973. A			Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	500 Secs X 2 [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]	[1] [2]

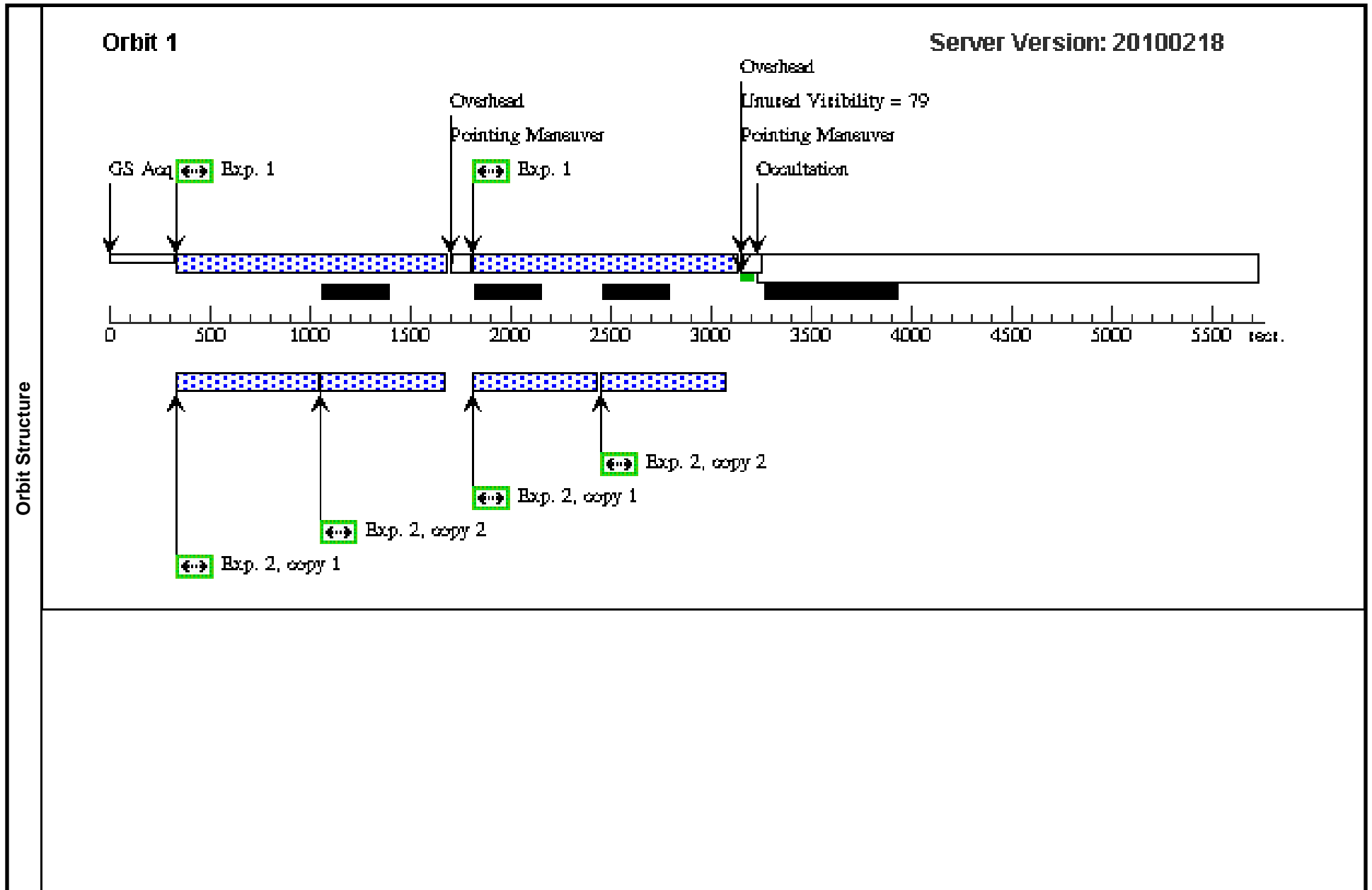


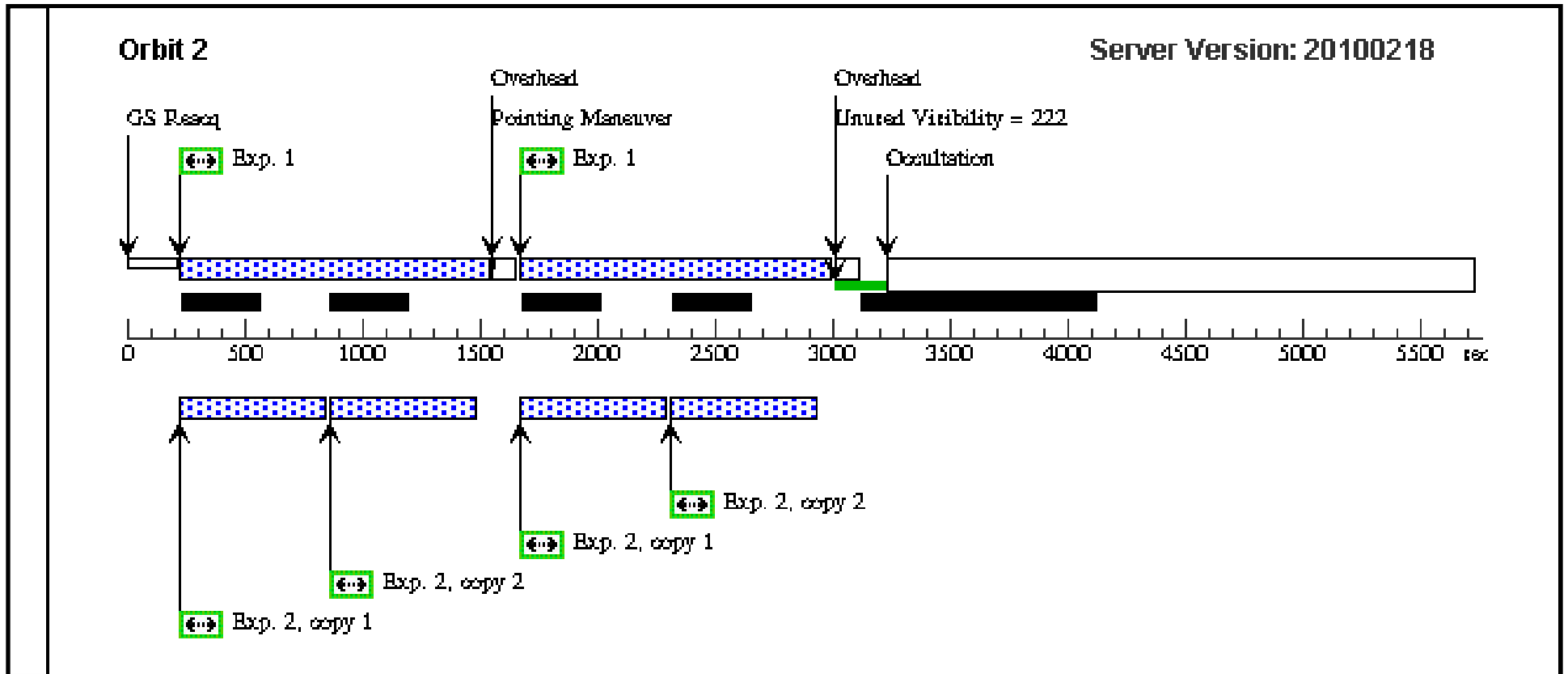


Proposal 11636 - Visit 05 - First Resolved Imaging of Escaping Lyman Continuum

Sat Mar 13 02:03:15 GMT 2010

Visit	Proposal 11636, Visit 05, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 256.6D TO 256.6 D									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SSA-22A	RA: 22 17 23.3227 (334.3471779d) Dec: +00 17 24.44 (.29012d) Equinox: J2000		V=24.5+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) SSA-22A		WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG -0.1316 7,0.5267; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	1325. Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1] [2]
	2	ANY		ACS/WFC, ACCUM, WFC	F814W			Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	500 Secs X 2 [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]	[1] [2]

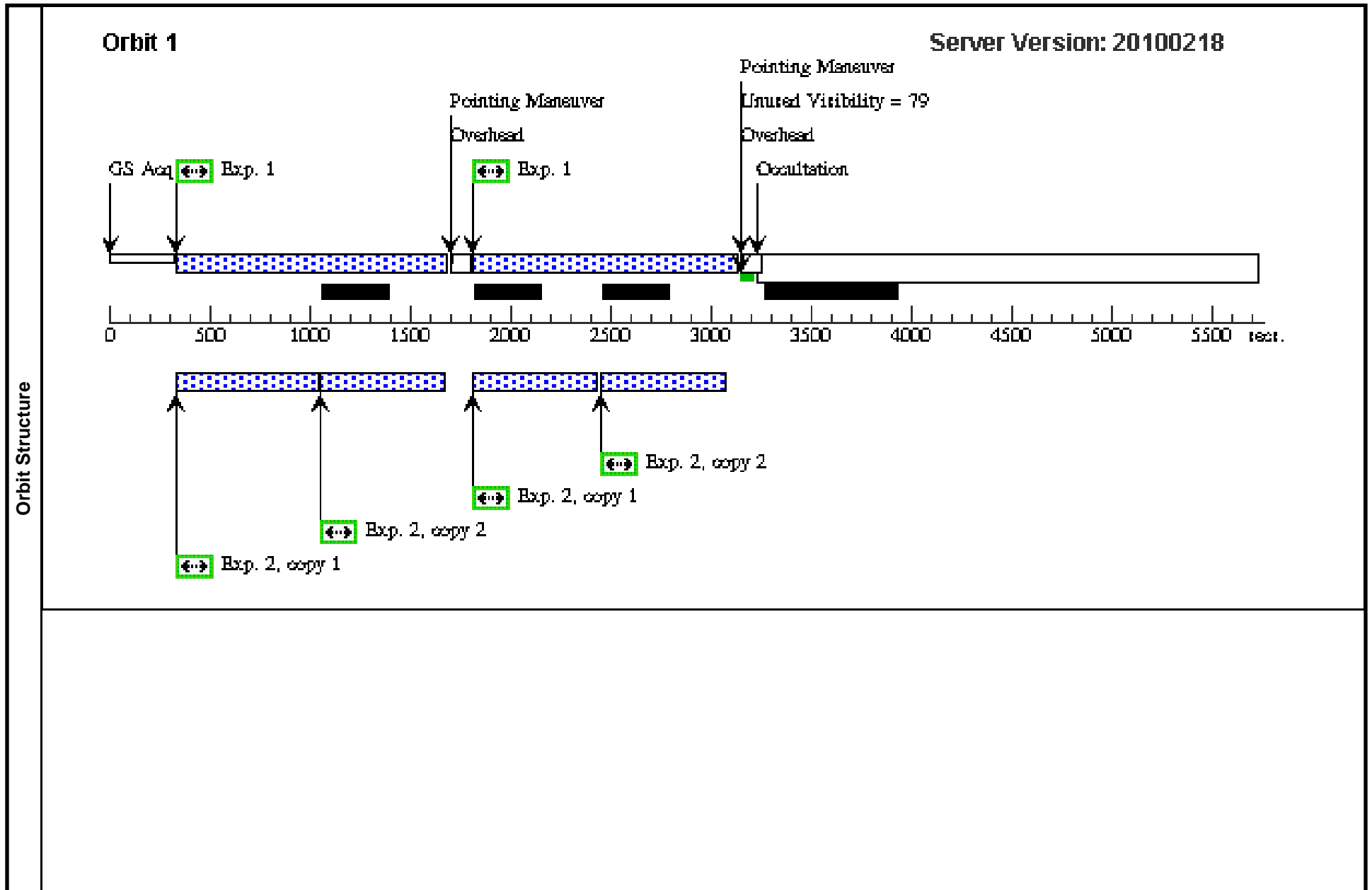


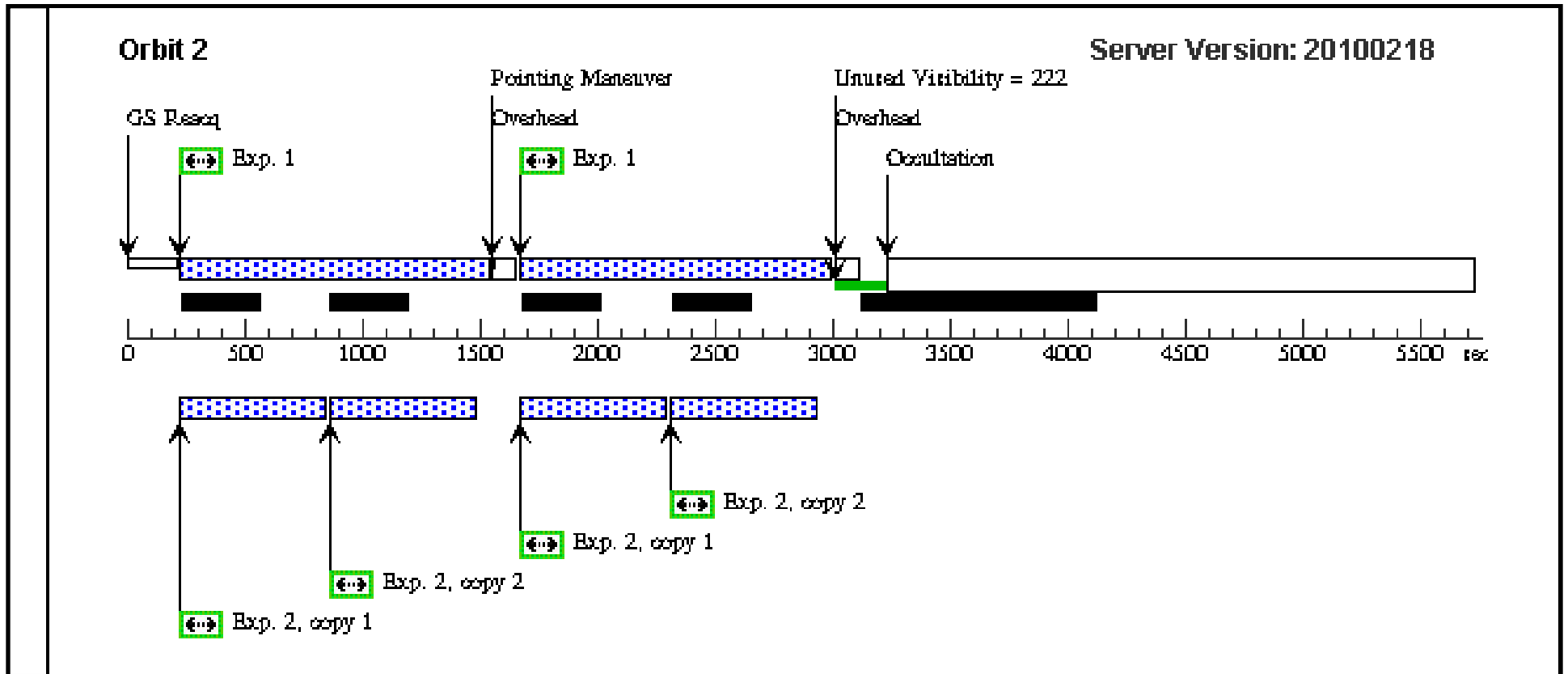


Proposal 11636 - Visit 06 - First Resolved Imaging of Escaping Lyman Continuum

Sat Mar 13 02:03:15 GMT 2010

Visit		Proposal 11636, Visit 06, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 256.6D TO 256.6 D								
Patterns	#	Primary Pattern		Secondary Pattern			Exposures			
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SSA-22A	RA: 22 17 23.3227 (334.3471779d) Dec: +00 17 24.44 (.29012d) Equinox: J2000		V=24.5+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) SSA-22A		WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG 0.3950,0 .65833; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	1325. Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1] [2]
	2	ANY		ACS/WFC, ACCUM, WFC1-MRAMP	FR505N 4973. A			Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	500 Secs X 2 [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]	[1] [2]

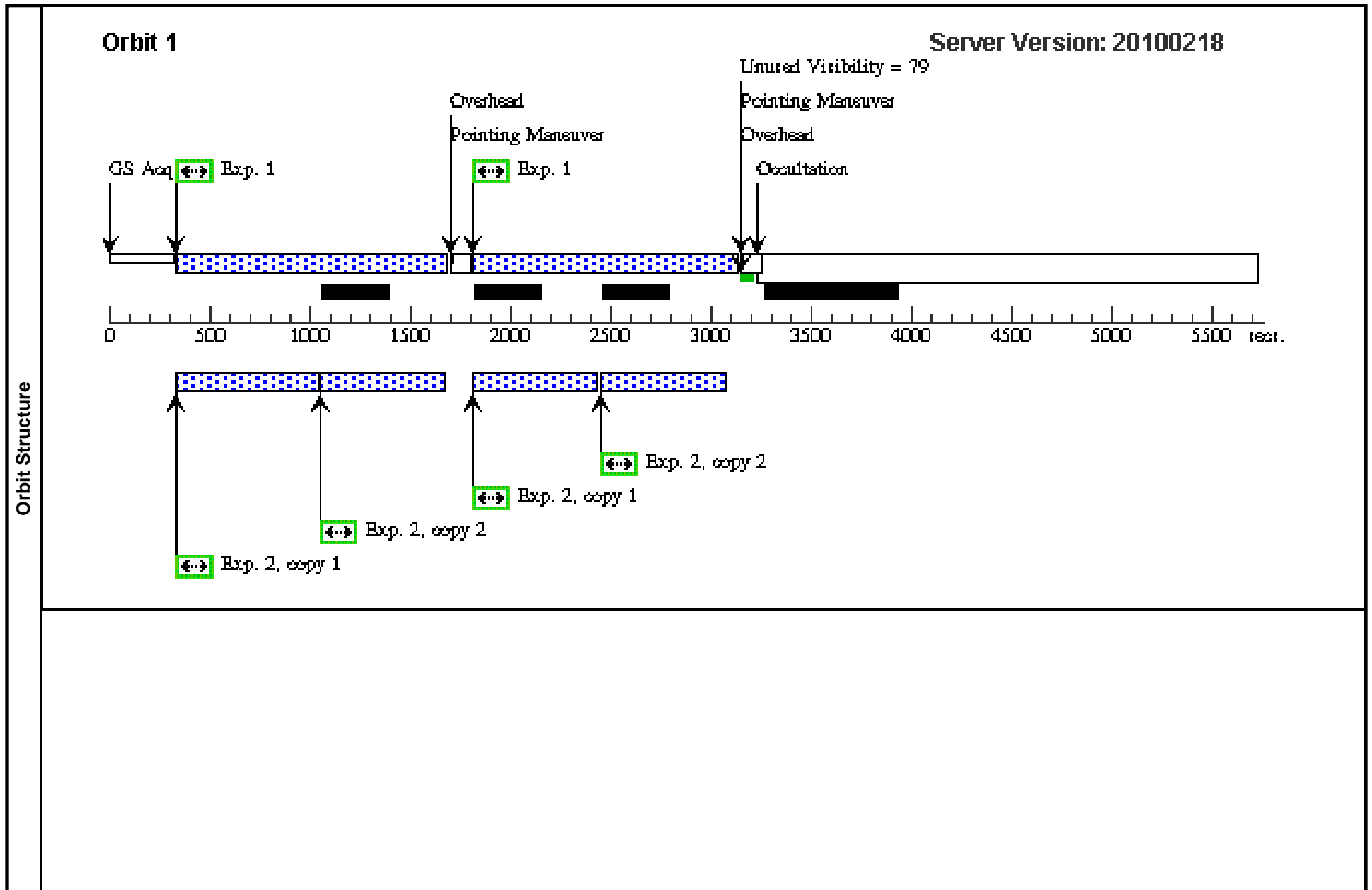


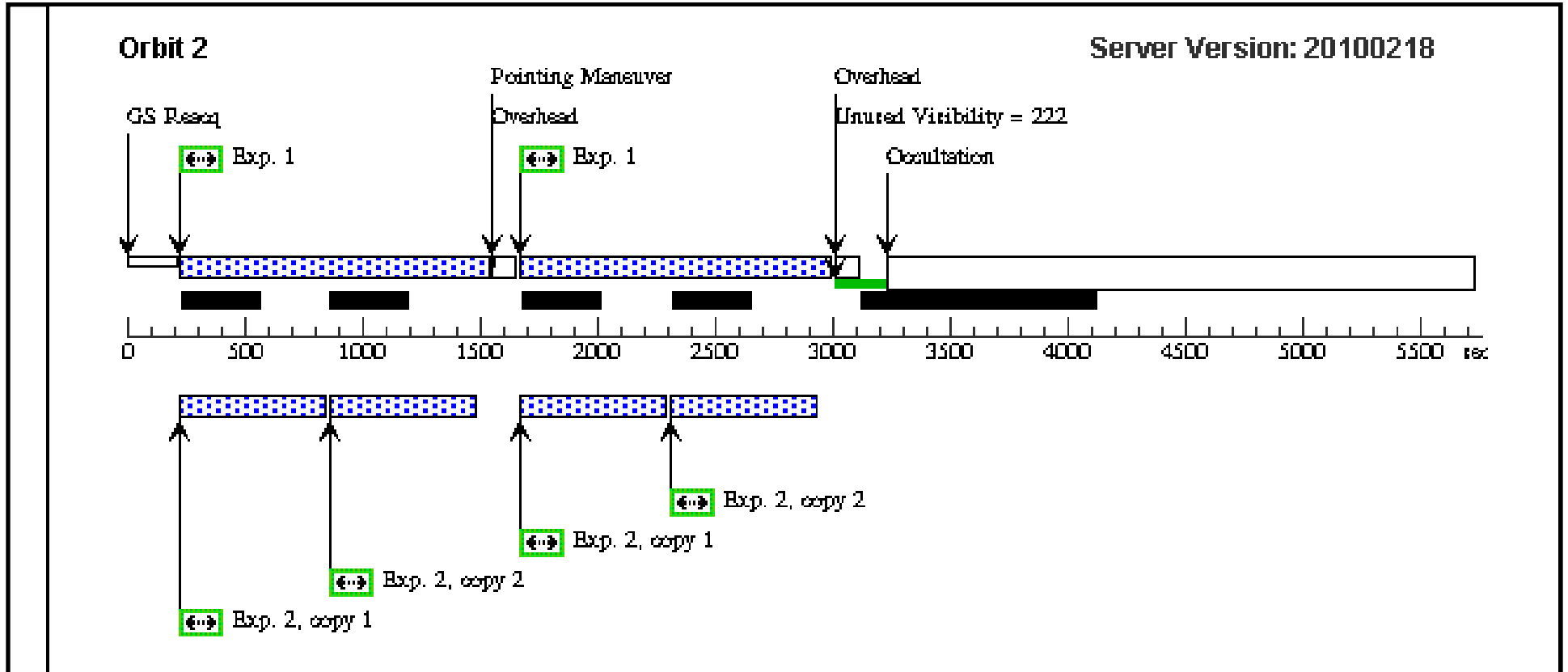


Proposal 11636 - Visit 07 - First Resolved Imaging of Escaping Lyman Continuum

Sat Mar 13 02:03:16 GMT 2010

Visit	Proposal 11636, Visit 07, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 256.6D TO 256.6 D									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SSA-22A	RA: 22 17 23.3227 (334.3471779d) Dec: +00 17 24.44 (.29012d) Equinox: J2000		V=24.5+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) SSA-22A	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG -1.0533, -0.2633; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	1325. Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1] [2]
	2		ANY	ACS/WFC, ACCUM, WFC	F606W			Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	500 Secs X 2 [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]	[1] [2]

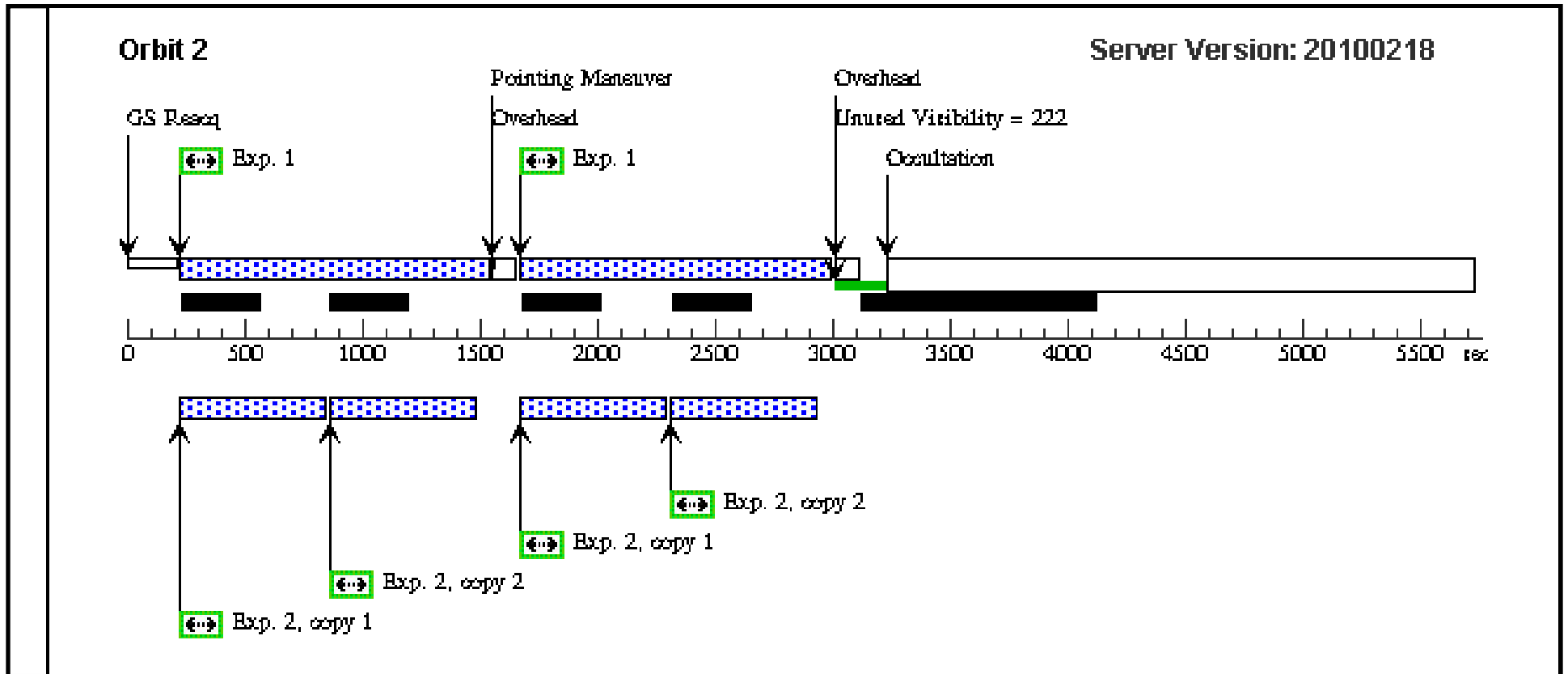




Proposal 11636 - Visit 08 - First Resolved Imaging of Escaping Lyman Continuum

Sat Mar 13 02:03:17 GMT 2010

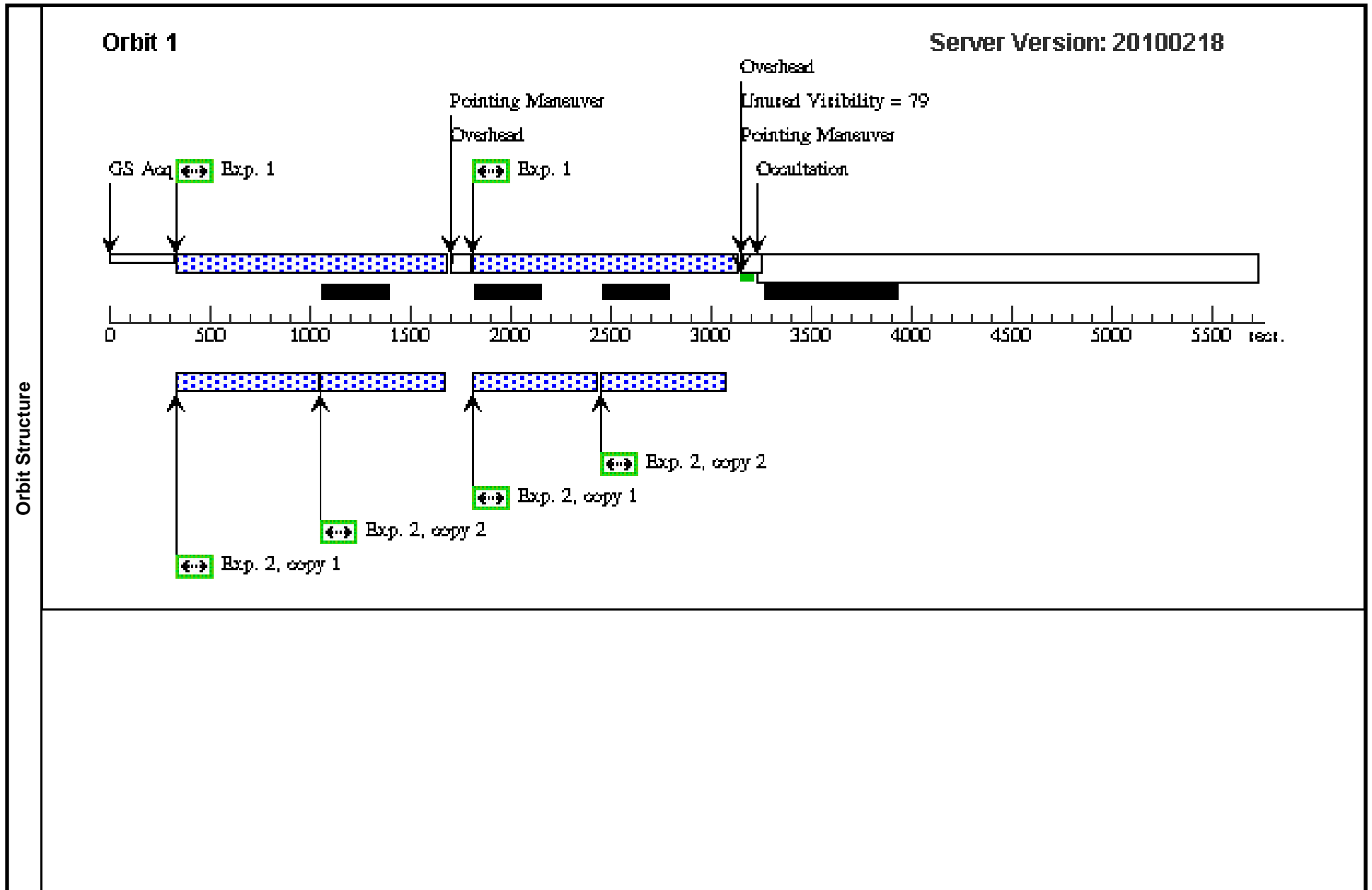
Visit	Proposal 11636, Visit 08, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 256.6D TO 256.6 D									
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		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(1-2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SSA-22A	RA: 22 17 23.3227 (334.3471779d) Dec: +00 17 24.44 (.29012d) Equinox: J2000		V=24.5+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) SSA-22A	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG -0.5267, -0.2633; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	1325. Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1] [2]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	500 Secs X 2 [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]	[1] [2]

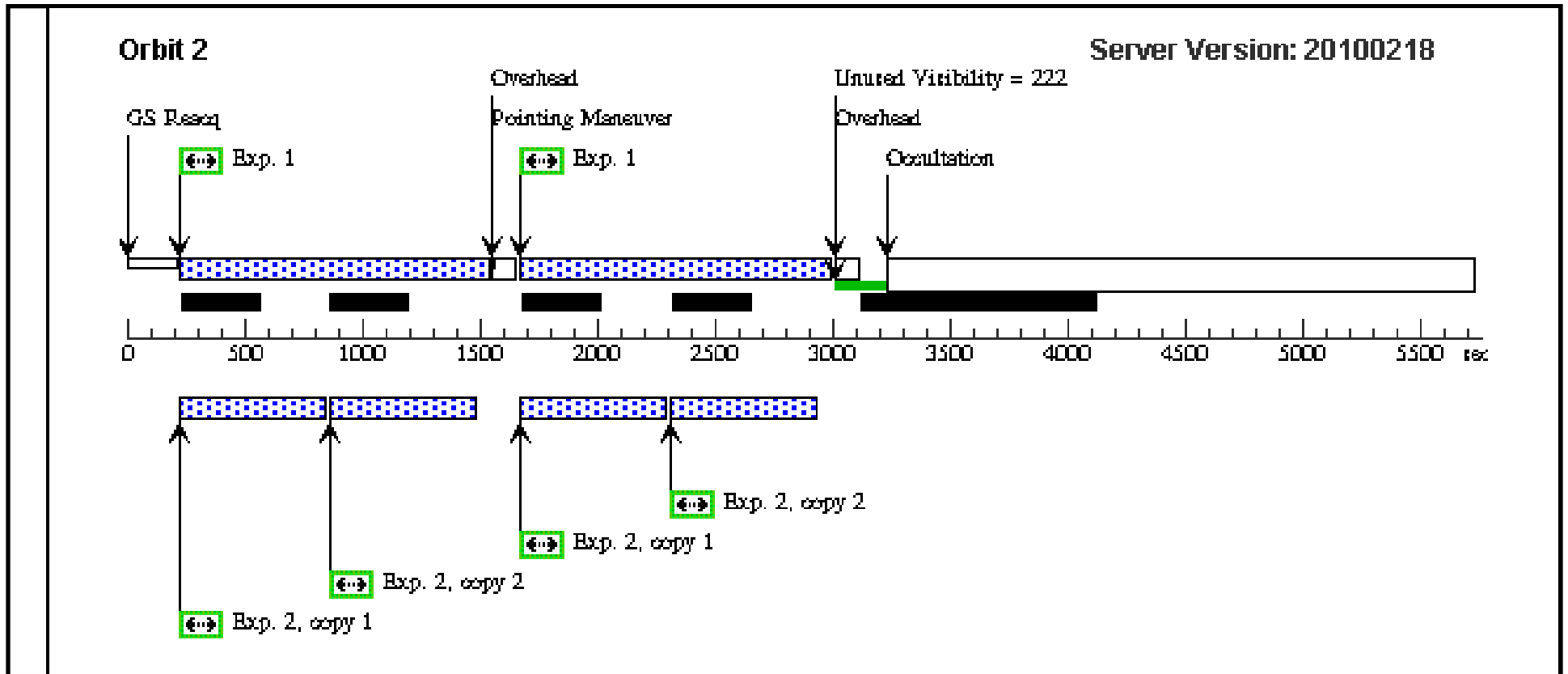


Proposal 11636 - Visit 09 - First Resolved Imaging of Escaping Lyman Continuum

Sat Mar 13 02:03:17 GMT 2010

Visit	Proposal 11636, Visit 09, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 256.6D TO 256.6 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SSA-22A	RA: 22 17 23.3227 (334.3471779d) Dec: +00 17 24.44 (.29012d) Equinox: J2000		V=24.5+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) SSA-22A		WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	1325. Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1] [2]
	2	ANY		ACS/WFC, ACCUM, WFC	F475W			Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	500 Secs X 2 [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]	[1] [2]

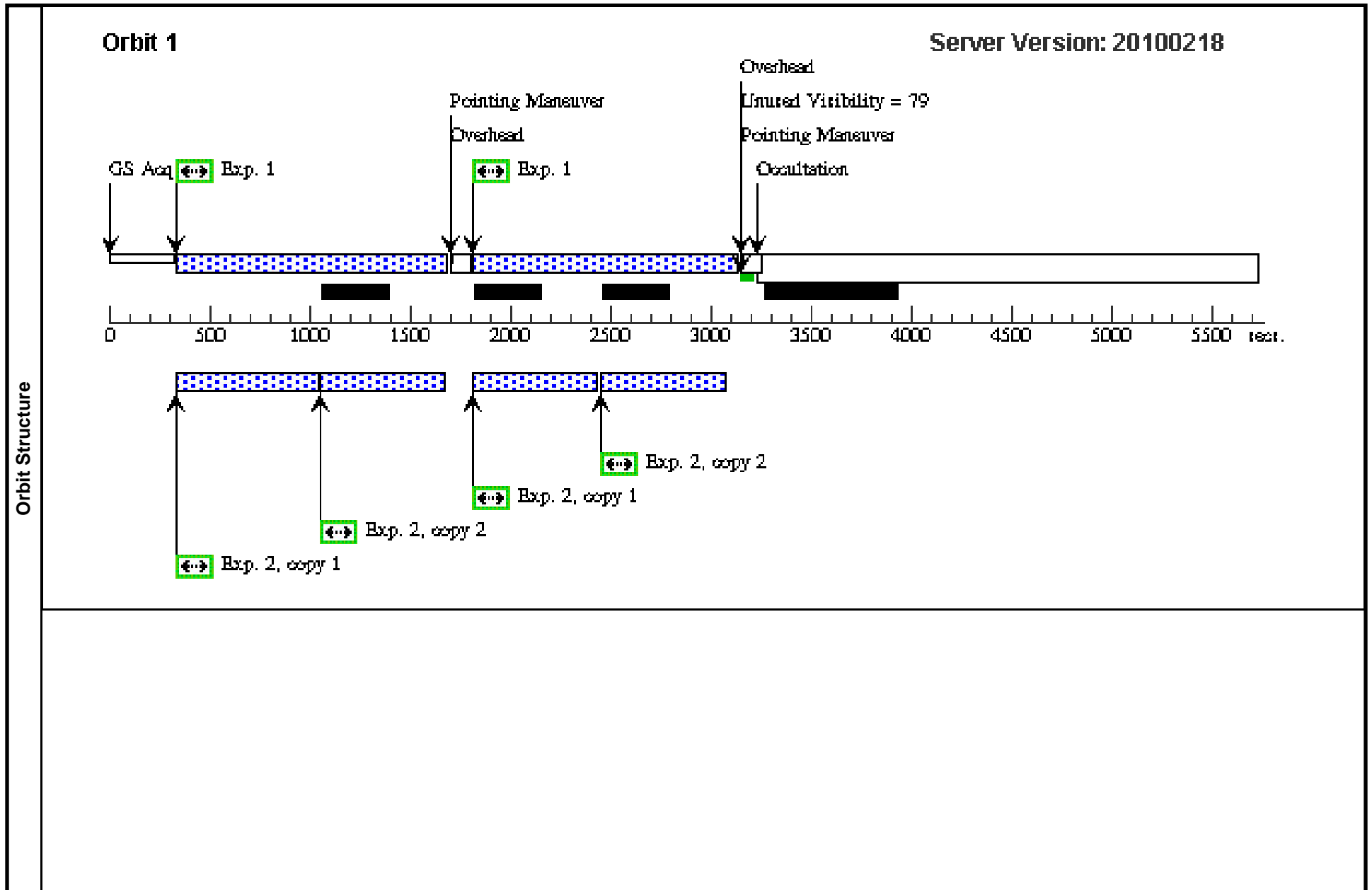


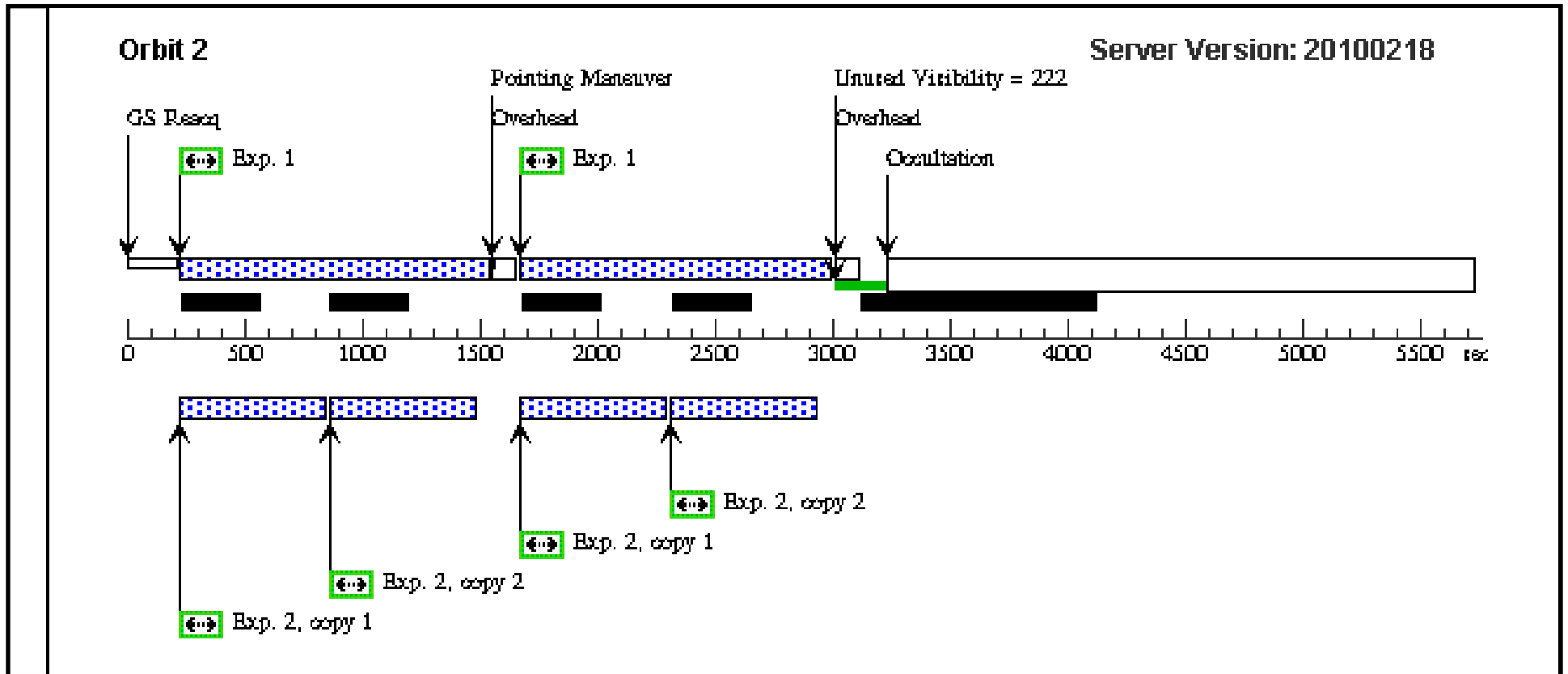


Proposal 11636 - Visit 10 - First Resolved Imaging of Escaping Lyman Continuum

Sat Mar 13 02:03:18 GMT 2010

Visit		Proposal 11636, Visit 10, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 256.6D TO 256.6 D								
Patterns	#	Primary Pattern		Secondary Pattern			Exposures			
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false				(1-2)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SSA-22A	RA: 22 17 23.3227 (334.3471779d) Dec: +00 17 24.44 (.29012d) Equinox: J2000		V=24.5+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) SSA-22A		WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG 0.5267,0 .13167; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	1325. Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1] [2]
	2	ANY		ACS/WFC, ACCUM, WFC	F814W			Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	500 Secs X 2 [=>(Pattern 1, Copy 1)] [=>(Pattern 1, Copy 2)] [=>(Pattern 2, Copy 1)] [=>(Pattern 2, Copy 2)] [=>(Pattern 3, Copy 1)] [=>(Pattern 3, Copy 2)] [=>(Pattern 4, Copy 1)] [=>(Pattern 4, Copy 2)]	[1] [2]

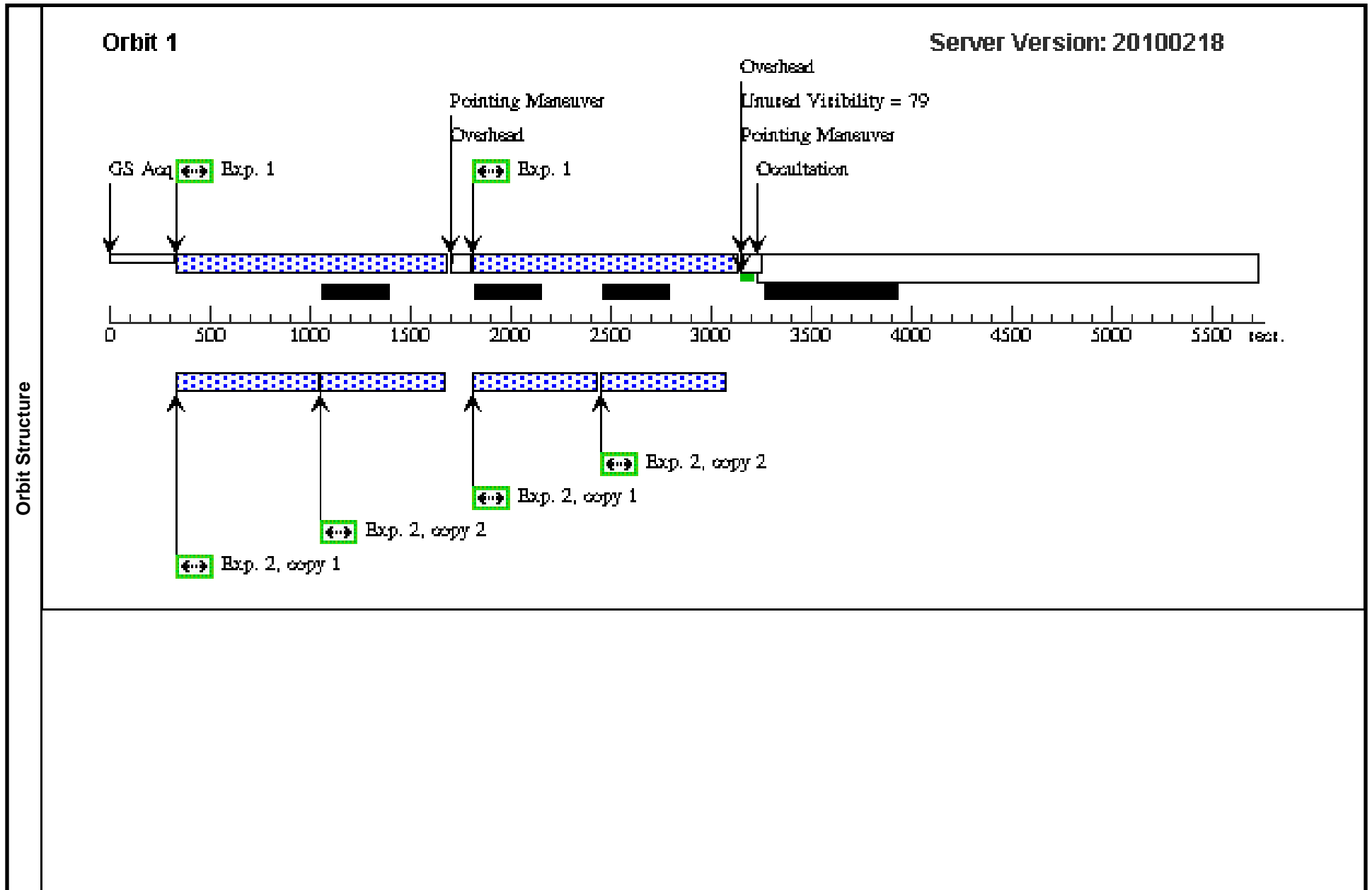


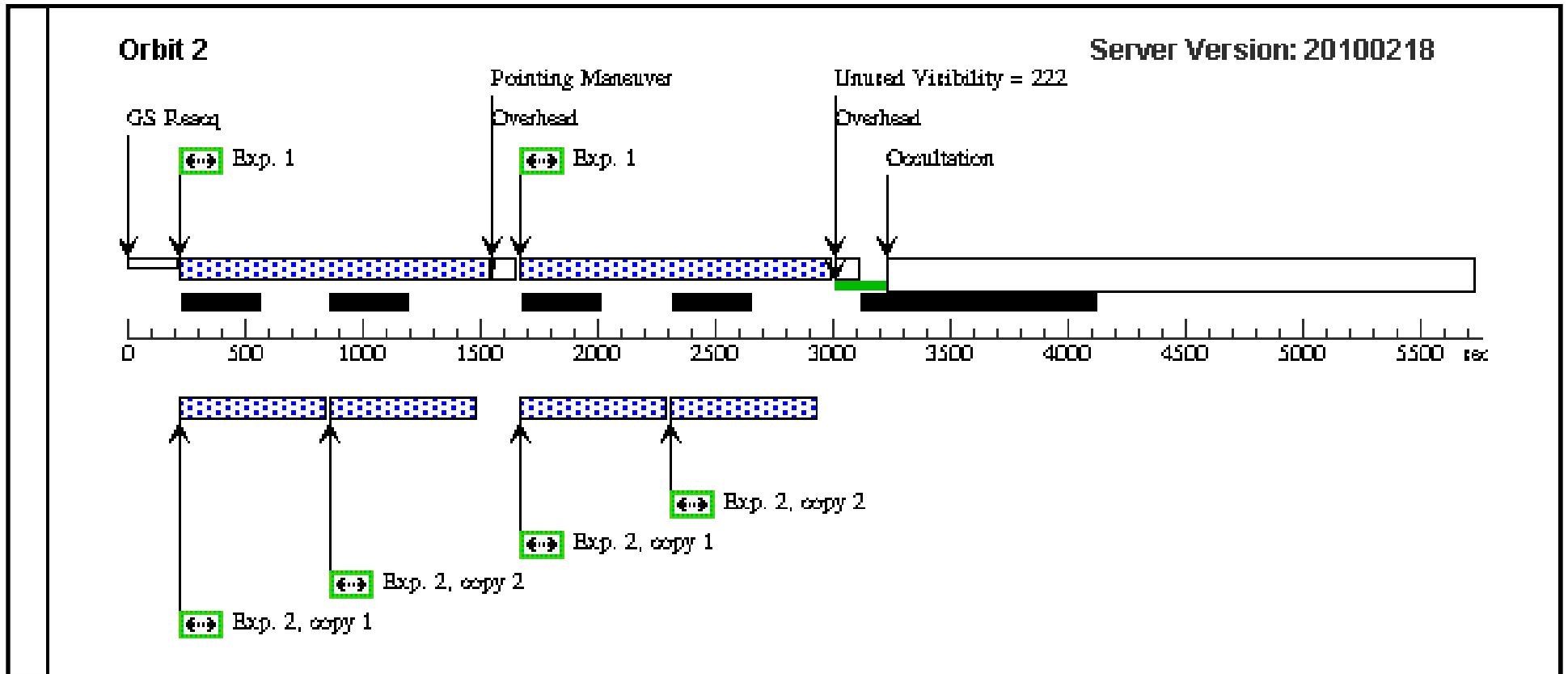


Proposal 11636 - Visit 11 - First Resolved Imaging of Escaping Lyman Continuum

Sat Mar 13 02:03:18 GMT 2010

Visit	Proposal 11636, Visit 11, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 256.6D TO 256.6 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(1-2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SSA-22A	RA: 22 17 23.3227 (334.3471779d) Dec: +00 17 24.44 (.29012d) Equinox: J2000		V=24.5+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) SSA-22A		WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG 1.0533,0 .2633; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	1325. Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1] [2]
	2	ANY		ACS/WFC, ACCUM, WFC	F606W			Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	500 Secs X 2 [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]	[1] [2]

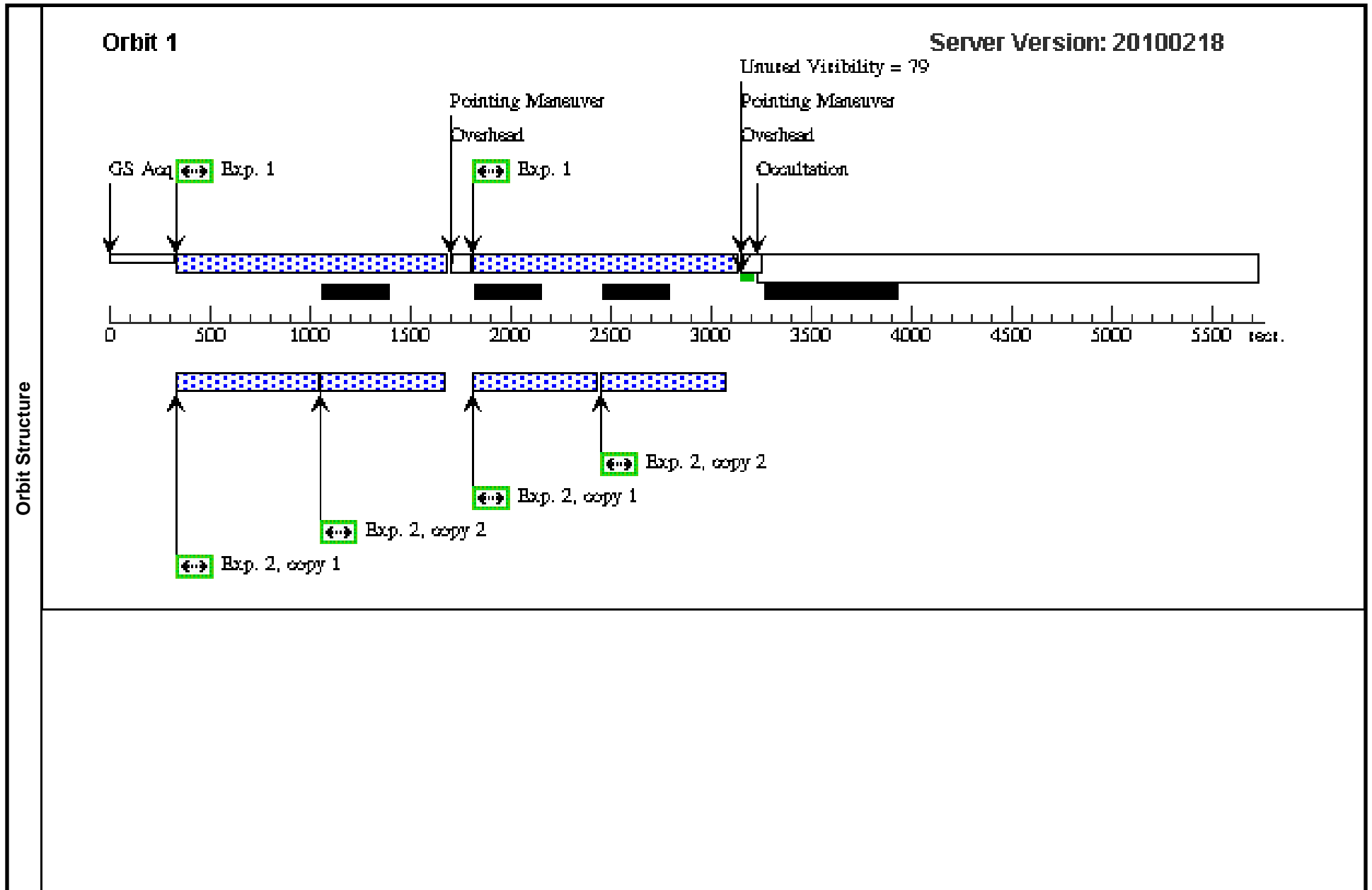


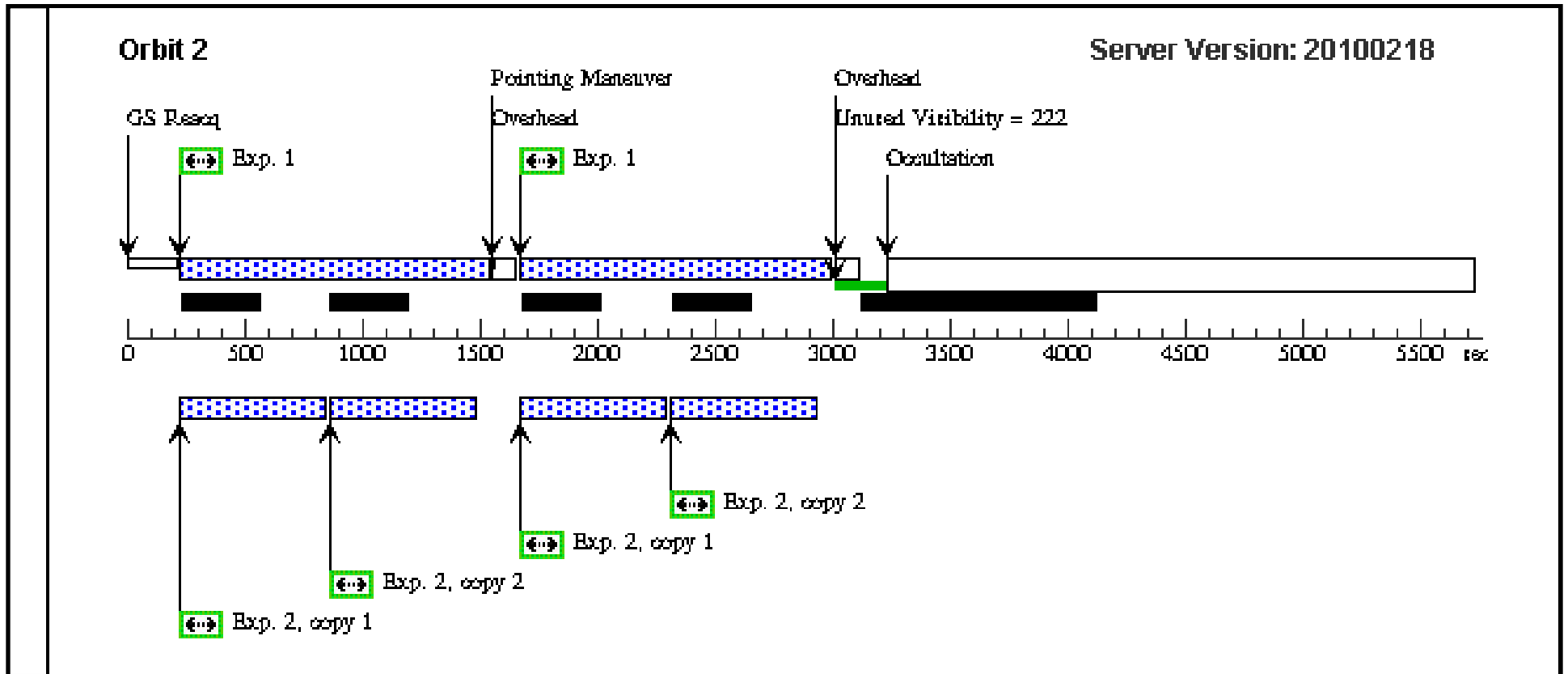


Proposal 11636 - Visit 12 - First Resolved Imaging of Escaping Lyman Continuum

Sat Mar 13 02:03:18 GMT 2010

Visit	Proposal 11636, Visit 12, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 256.6D TO 256.6 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(1-2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SSA-22A	RA: 22 17 23.3227 (334.3471779d) Dec: +00 17 24.44 (.29012d) Equinox: J2000		V=24.5+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) SSA-22A		WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG -0.3950, -0.65833; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	1325. Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1] [2]
	2	ANY		ACS/WFC, ACCUM, WFC1-MRAMP	FR505N 4973. A			Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	500 Secs X 2 [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]	[1] [2]

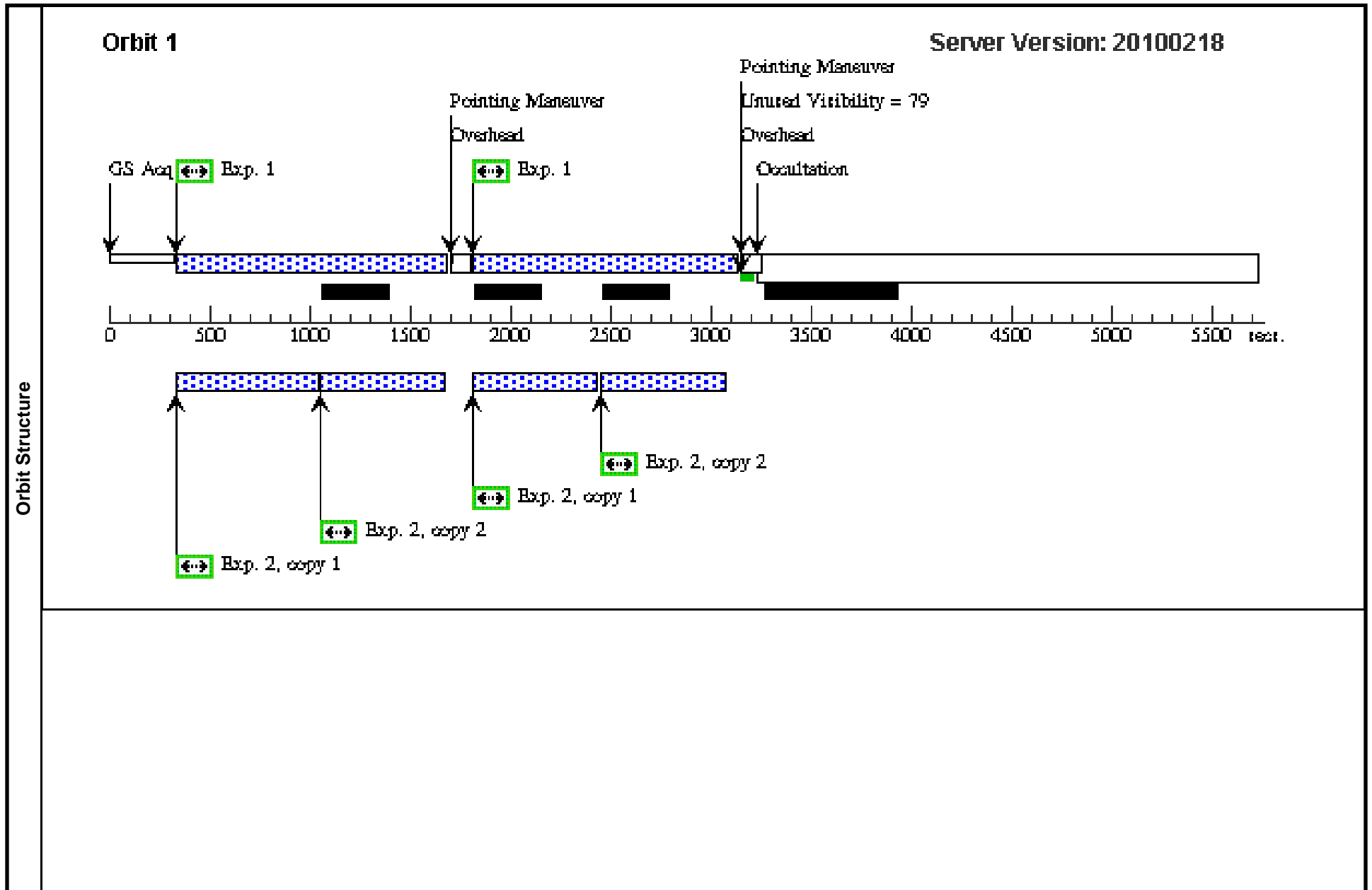


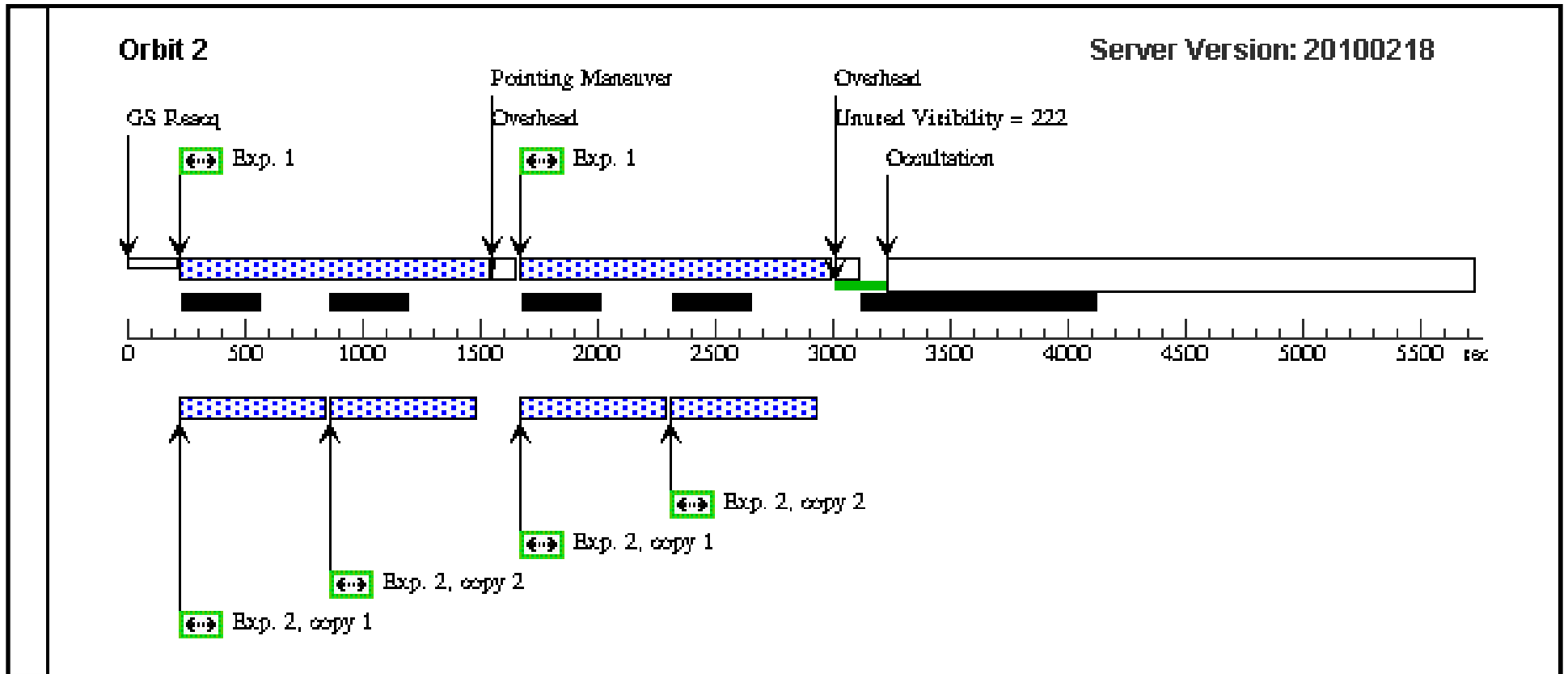


Proposal 11636 - Visit 13 - First Resolved Imaging of Escaping Lyman Continuum

Sat Mar 13 02:03:19 GMT 2010

Visit	Proposal 11636, Visit 13, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 256.6D TO 256.6 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(1-2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SSA-22A	RA: 22 17 23.3227 (334.3471779d) Dec: +00 17 24.44 (.29012d) Equinox: J2000		V=24.5+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) SSA-22A		WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG 0.13167, -0.5267; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	1325. Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1] [2]
	2	ANY		ACS/WFC, ACCUM, WFC	F814W			Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	500 Secs X 2 [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]	[1] [2]

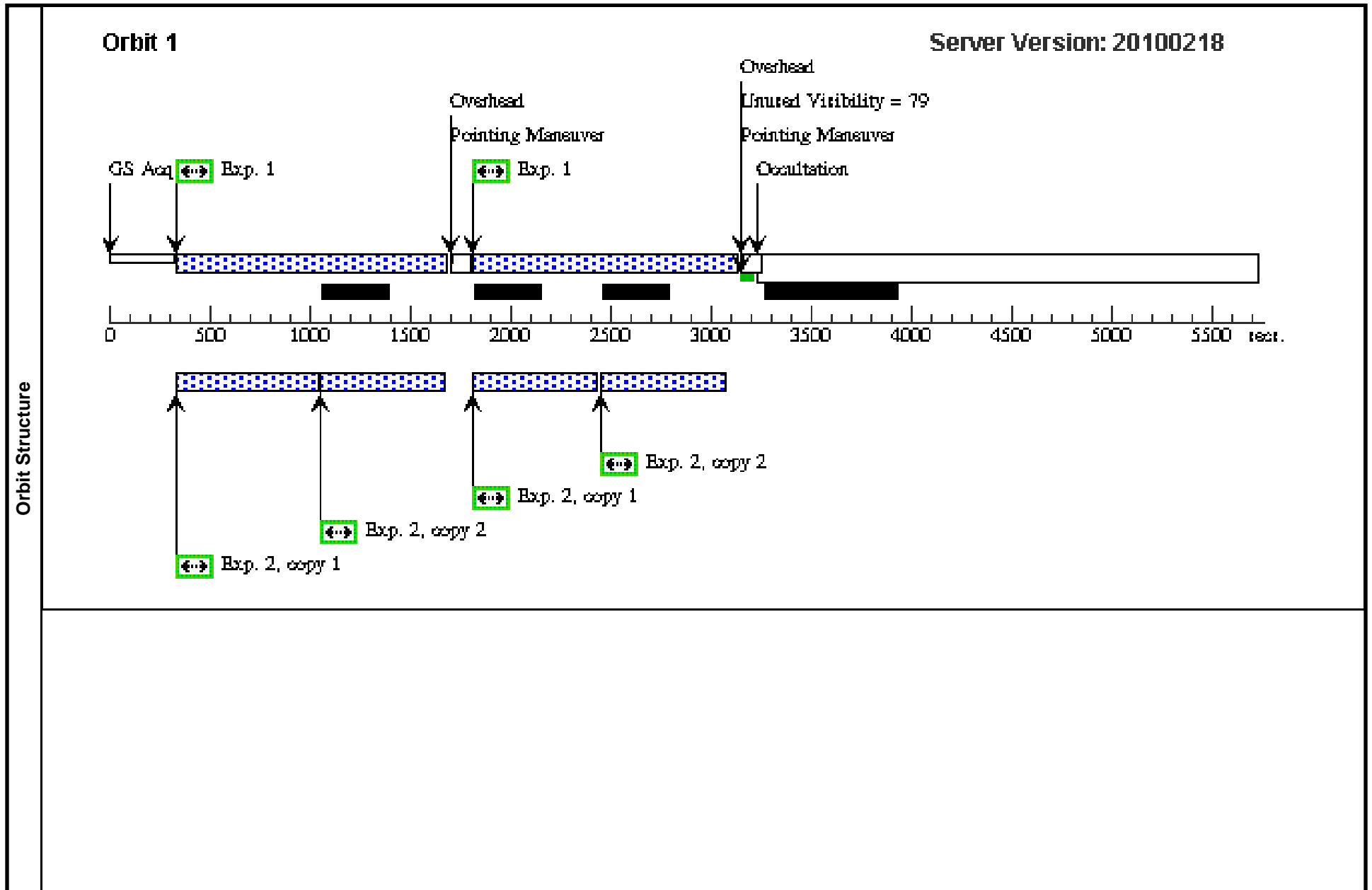


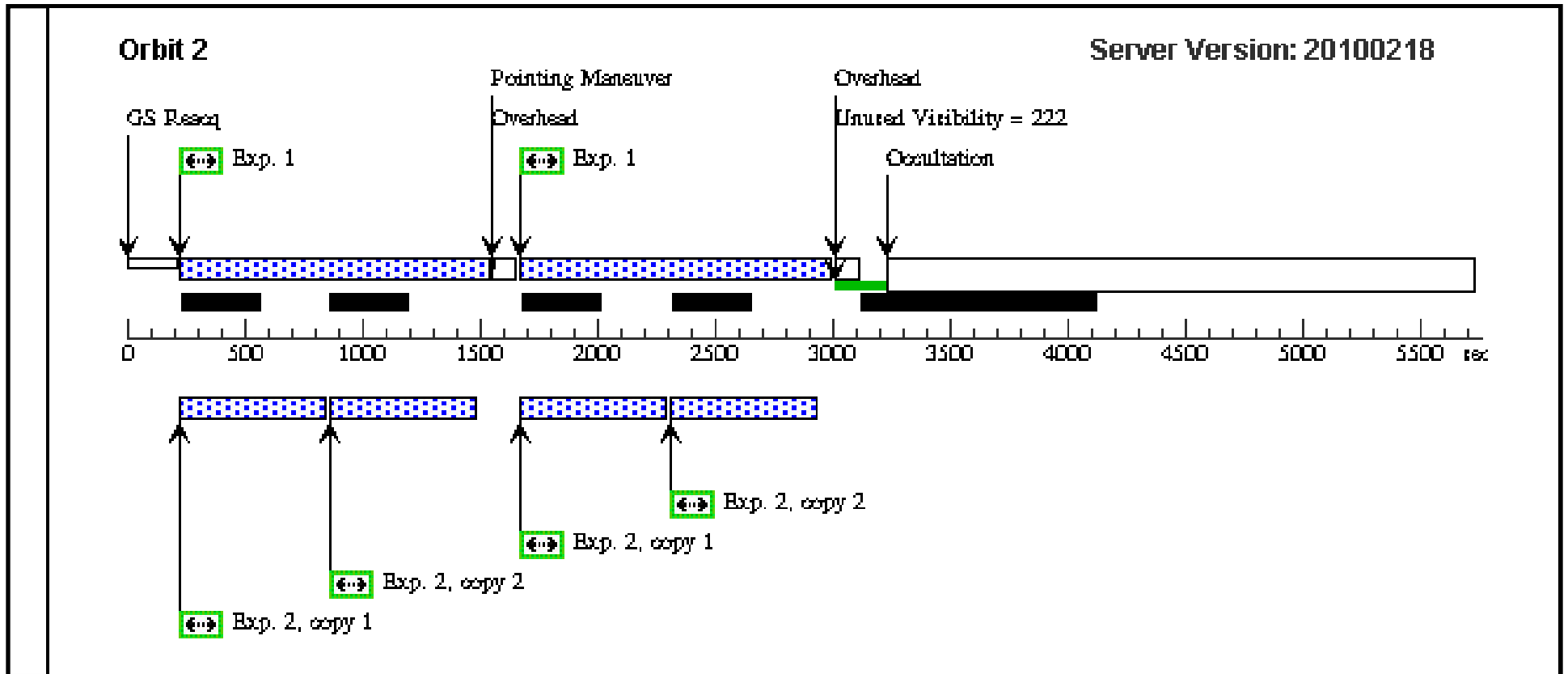


Proposal 11636 - Visit 14 - First Resolved Imaging of Escaping Lyman Continuum

Sat Mar 13 02:03:20 GMT 2010

Visit	Proposal 11636, Visit 14, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 256.6D TO 256.6 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(1-2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SSA-22A	RA: 22 17 23.3227 (334.3471779d) Dec: +00 17 24.44 (.29012d) Equinox: J2000		V=24.5+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) SSA-22A		WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG 0.65833, -0.3950; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	1325. Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1] [2]
	2	ANY		ACS/WFC, ACCUM, WFC1-MRAMP	FR505N 4973. A			Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	500 Secs X 2 [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]	[1] [2]

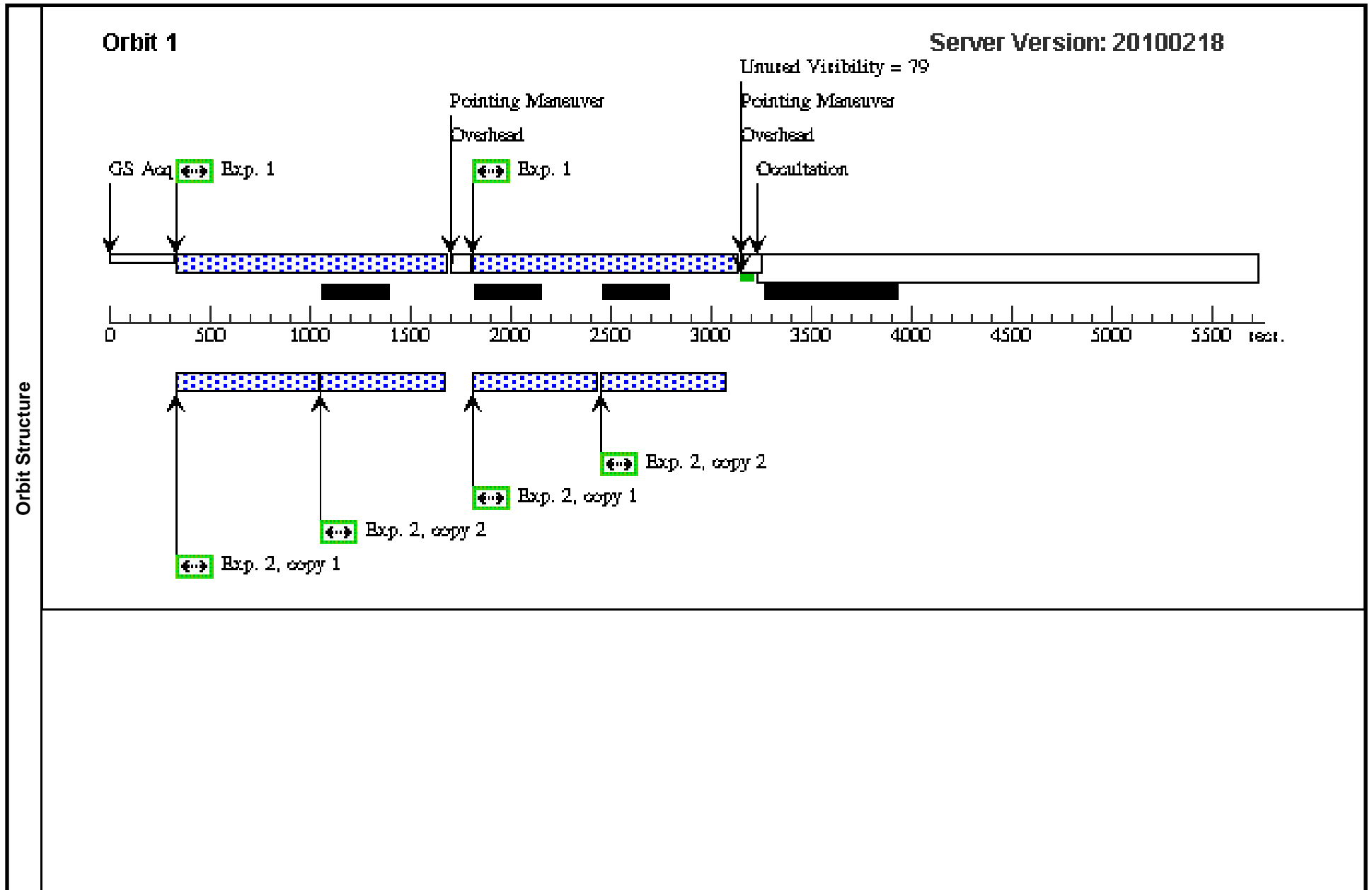


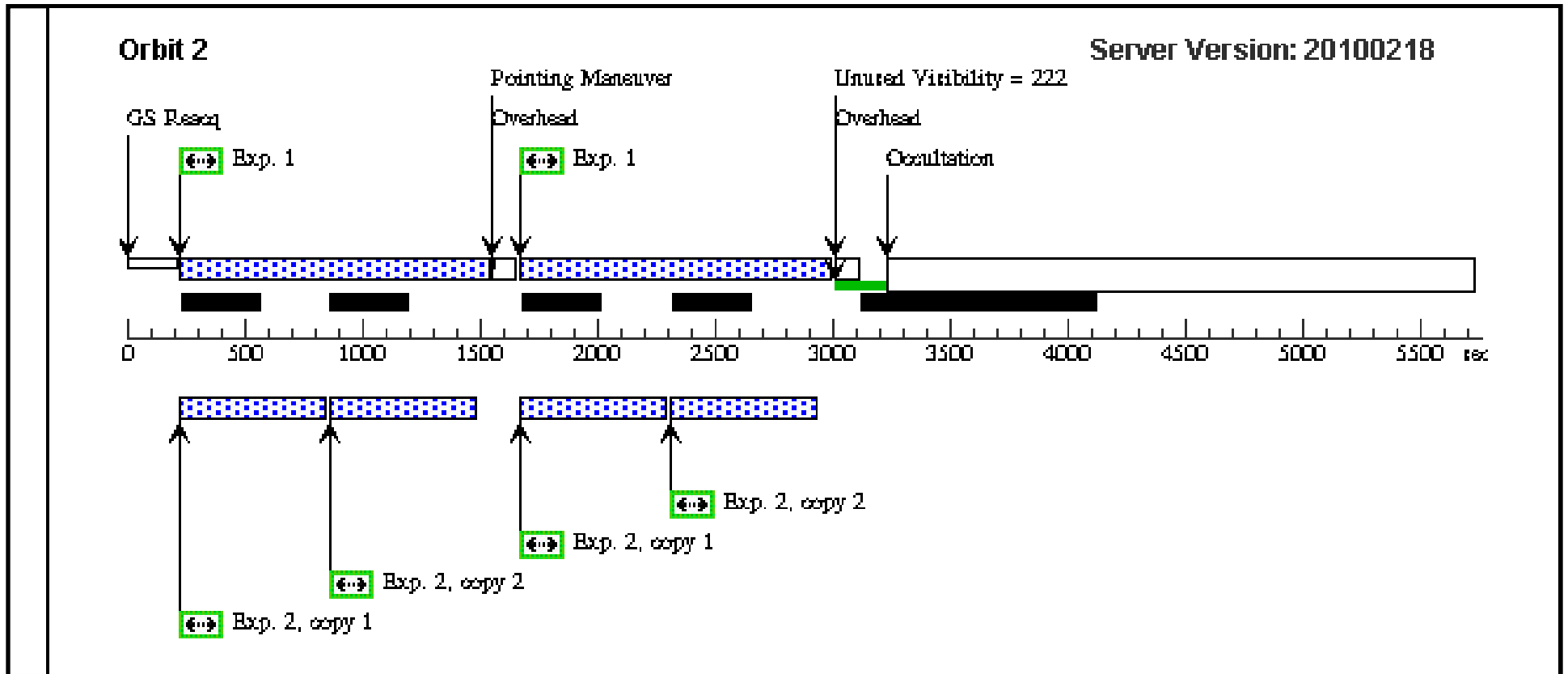


Proposal 11636 - Visit 15 - First Resolved Imaging of Escaping Lyman Continuum

Sat Mar 13 02:03:20 GMT 2010

Visit	Proposal 11636, Visit 15, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 256.6D TO 256.6 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(1-2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SSA-22A	RA: 22 17 23.3227 (334.3471779d) Dec: +00 17 24.44 (.29012d) Equinox: J2000		V=24.5+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) SSA-22A	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG 1.1850,-0.2633; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	1325. Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1] [2]
	2		ANY	ACS/WFC, ACCUM, WFC	F606W			Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	500 Secs X 2 [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]	[1] [2]

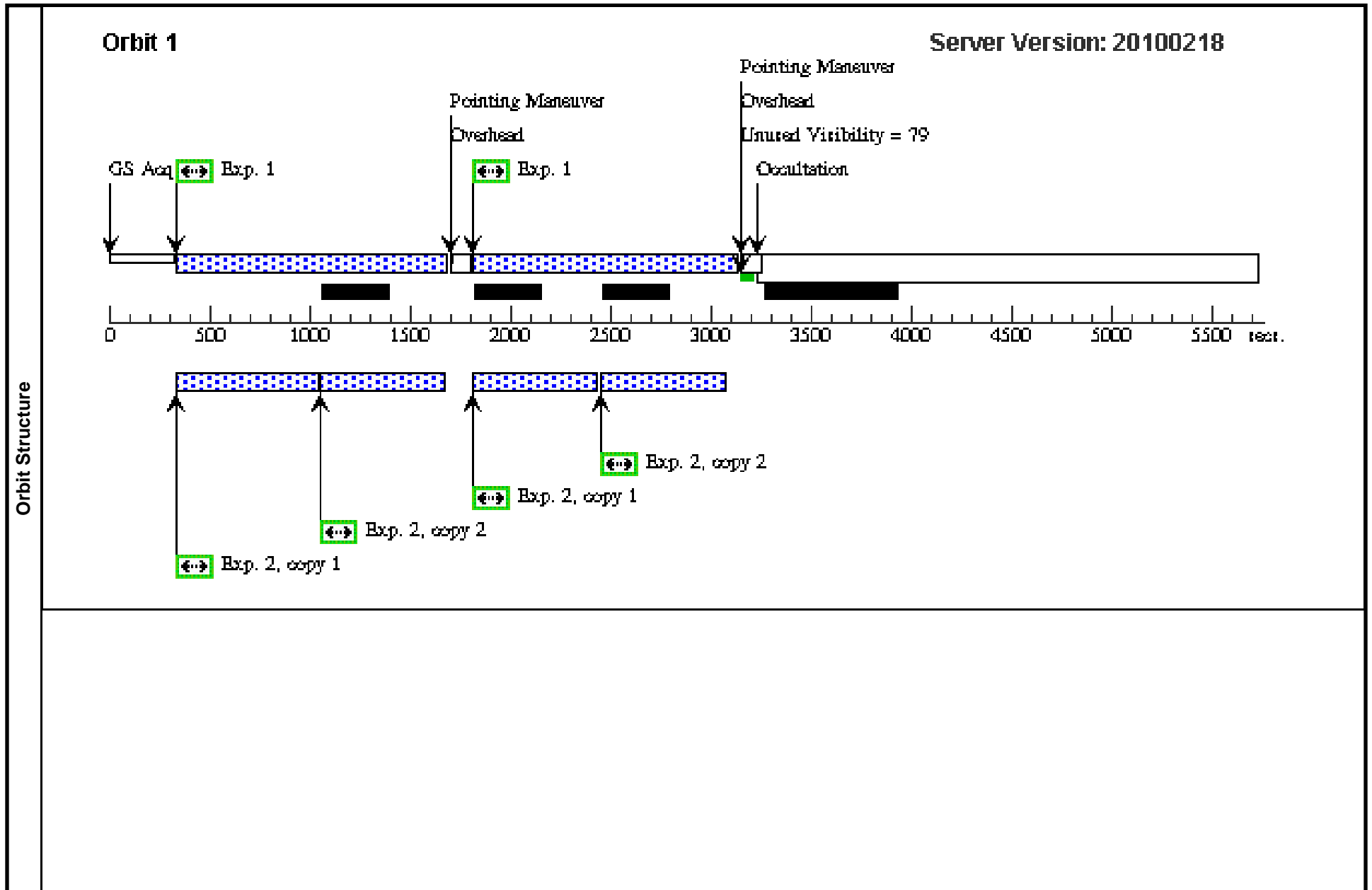


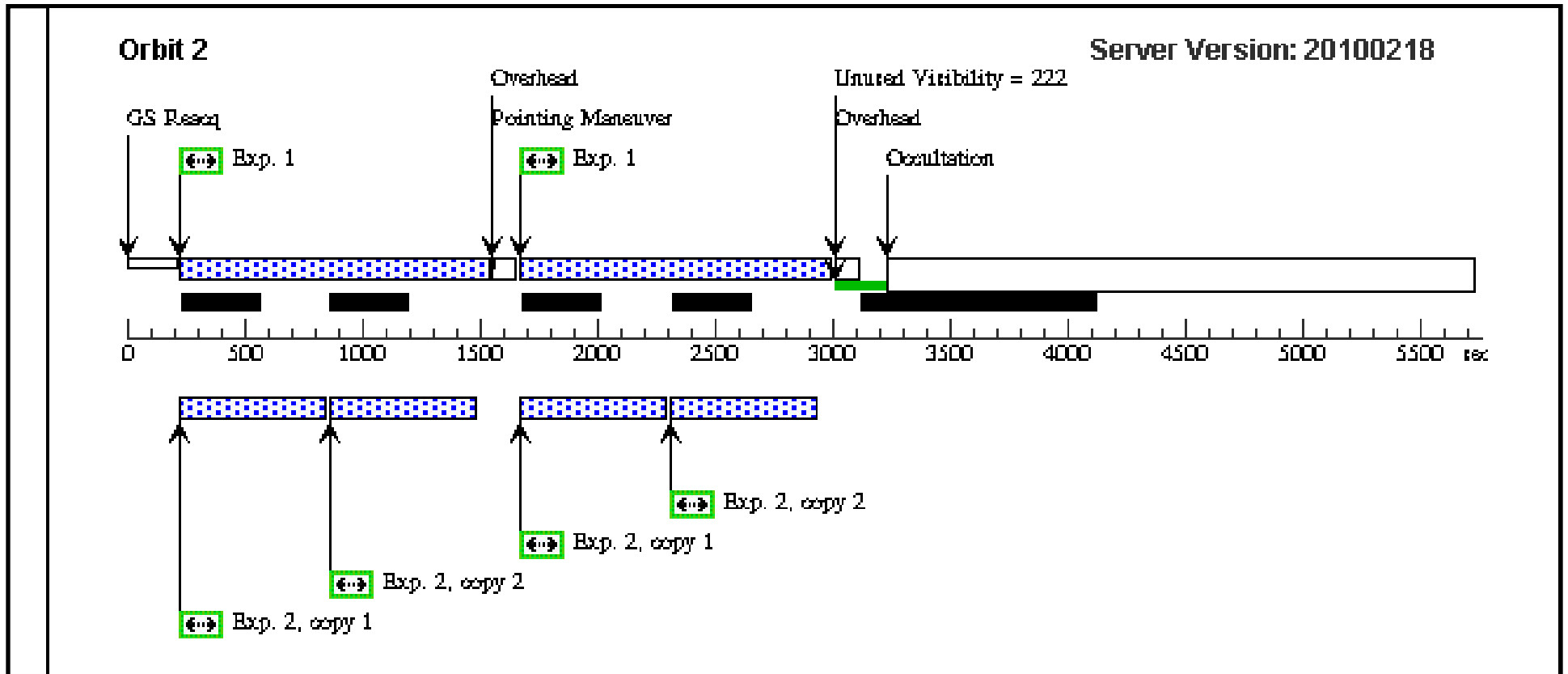


Proposal 11636 - Visit 16 - First Resolved Imaging of Escaping Lyman Continuum

Sat Mar 13 02:03:20 GMT 2010

Visit	Proposal 11636, Visit 16, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 256.6D TO 256.6 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(1-2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SSA-22A	RA: 22 17 23.3227 (334.3471779d) Dec: +00 17 24.44 (.29012d) Equinox: J2000		V=24.5+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) SSA-22A		WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG 0.2633,-1.0533; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	1325. Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1] [2]
	2	ANY		ACS/WFC, ACCUM, WFC	F814W			Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	500 Secs X 2 [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]	[1] [2]

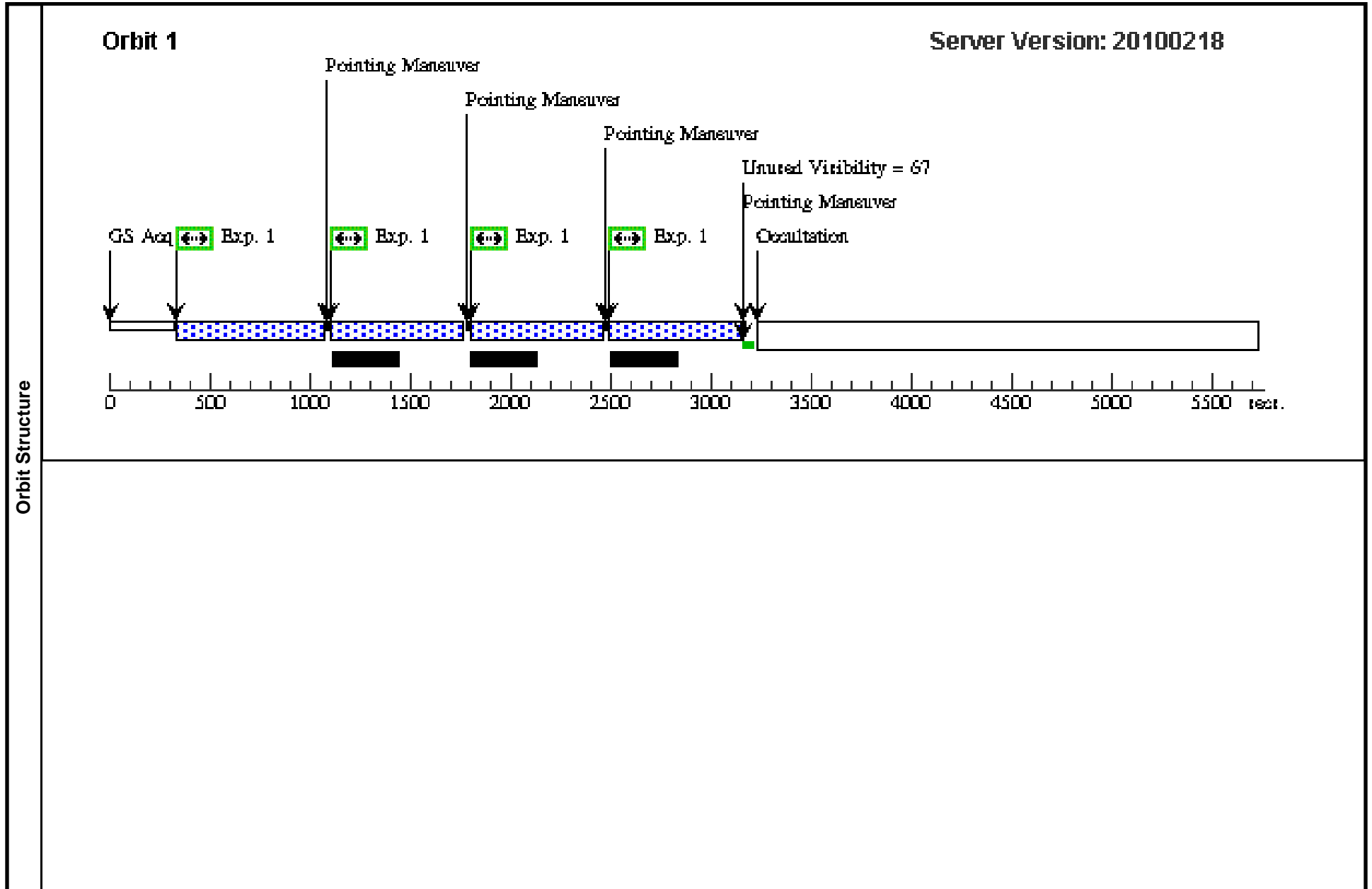


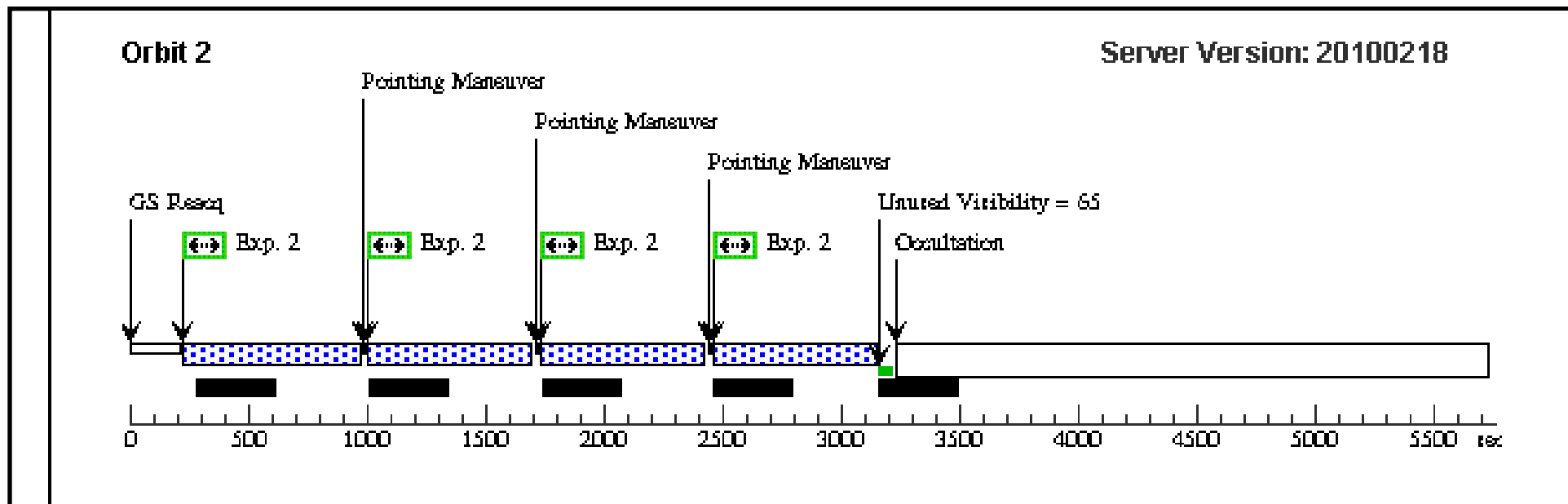


Proposal 11636 - Visit 17 - First Resolved Imaging of Escaping Lyman Continuum

Sat Mar 13 02:03:21 GMT 2010

Visit	Proposal 11636, Visit 17, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: ORIENT 256.6D TO 256.6 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(5)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.265 Line Spacing=0.187	Coordinate Frame=POS-TARG Pattern Orientation=20.67 Angle Between Sides=69.05 Center Pattern=false		(1), (2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SSA-22A	RA: 22 17 23.3227 (334.3471779d) Dec: +00 17 24.44 (.29012d) Equinox: J2000		V=24.5+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) SSA-22A	(1) SSA-22A	ACS/WFC, ACCUM, WFC	F606W				Pattern 5, Exps 1-1 (5) 535 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
2	(1) SSA-22A	(1) SSA-22A	(1) SSA-22A	ACS/WFC, ACCUM, WFC	F814W			Pattern 5, Exps 2-2 (5) 570 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]	

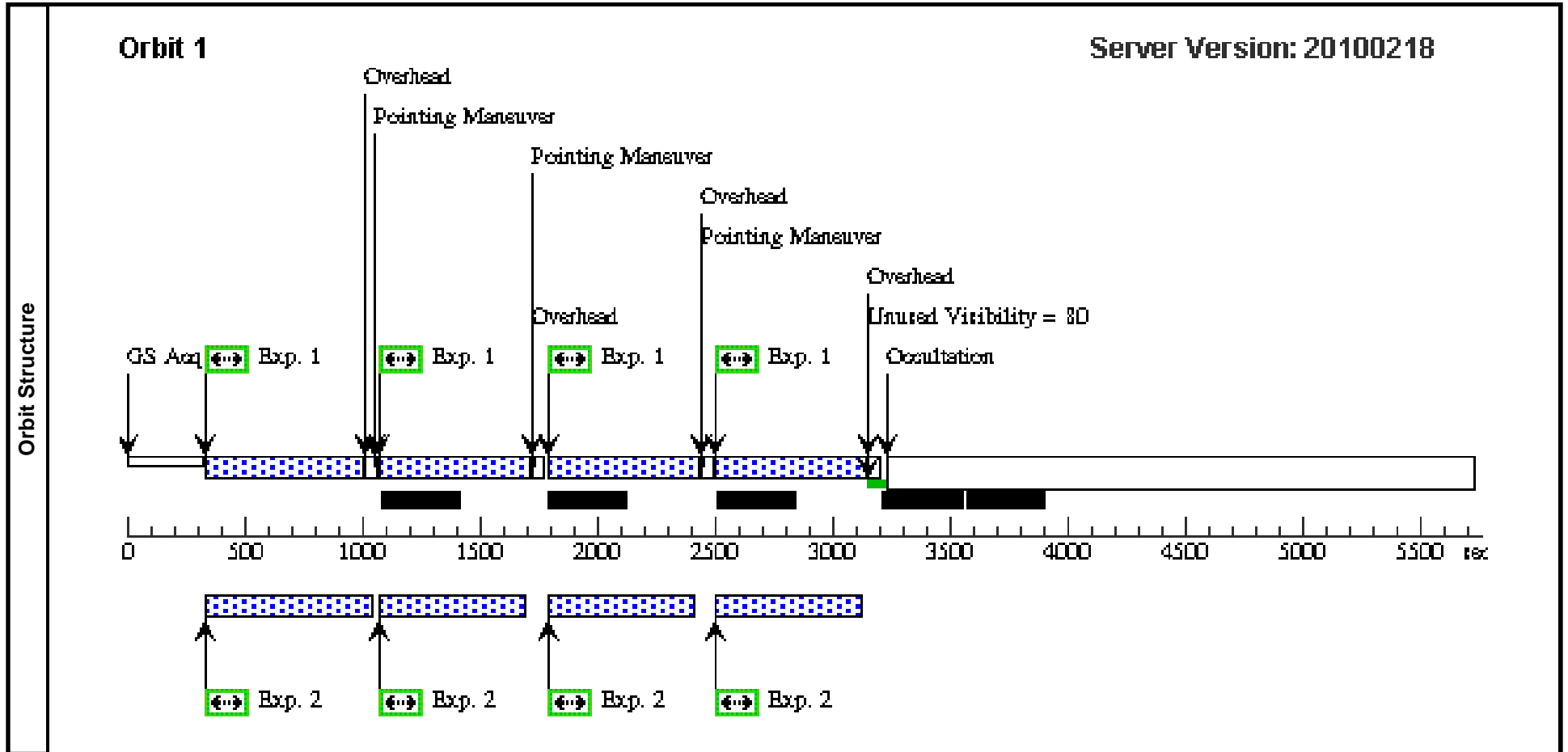




Proposal 11636 - Visit 18 - First Resolved Imaging of Escaping Lyman Continuum

Sat Mar 13 02:03:21 GMT 2010

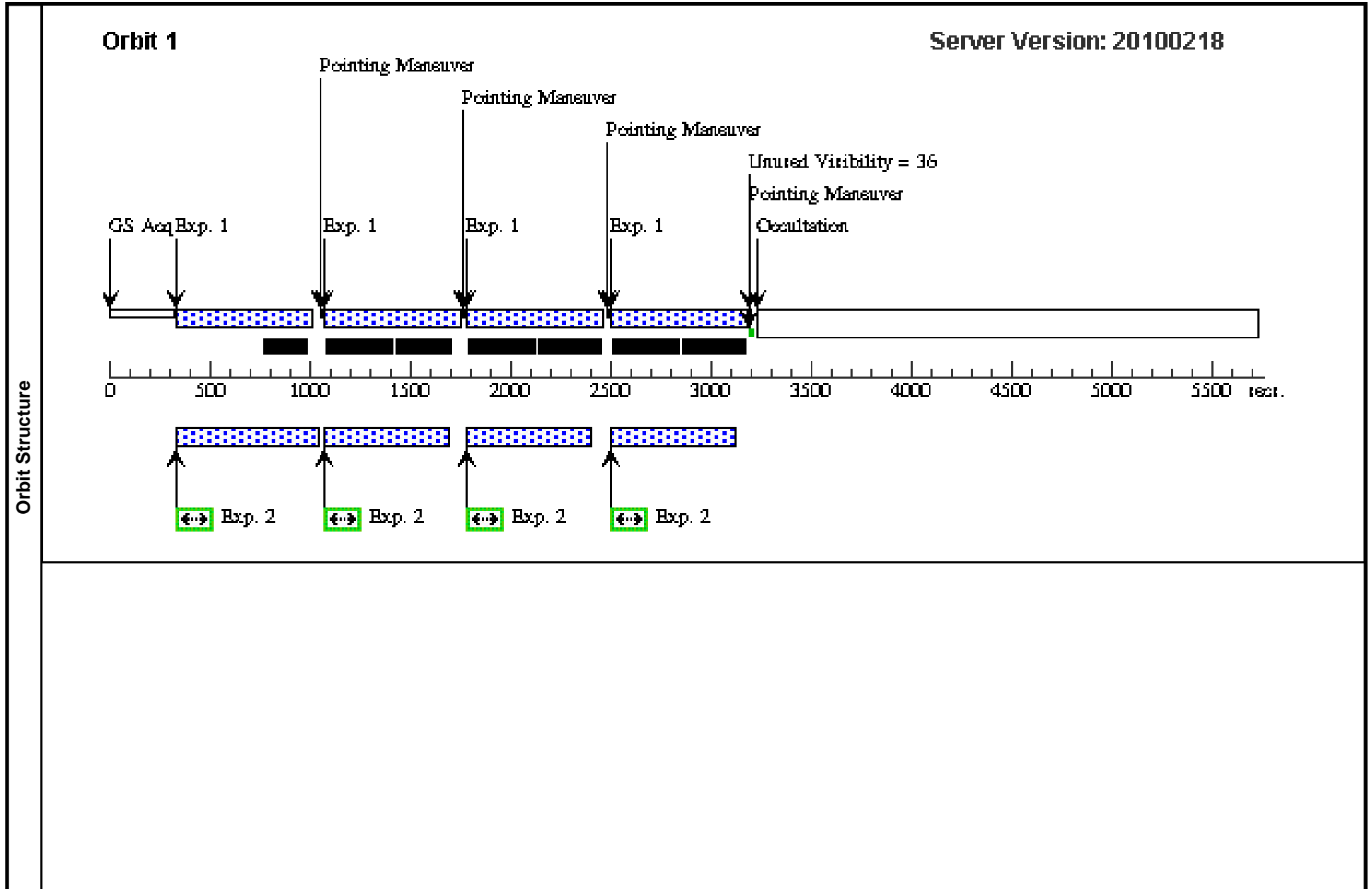
Visit		Proposal 11636, Visit 18, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 256.6D TO 256.6 D								
Patterns	#	Primary Pattern		Secondary Pattern			Exposures			
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false				(1-2)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SSA-22A	RA: 22 17 23.3227 (334.3471779d) Dec: +00 17 24.44 (.29012d) Equinox: J2000		V=24.5+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) SSA-22A	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO; BIN=2	POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	638. Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]	
2	ANY	ACS/WFC, ACCUM, WFC	F606W			Pattern 1, Exps 1-2 (1) Prime + Parallel Group 1-2	500 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]		

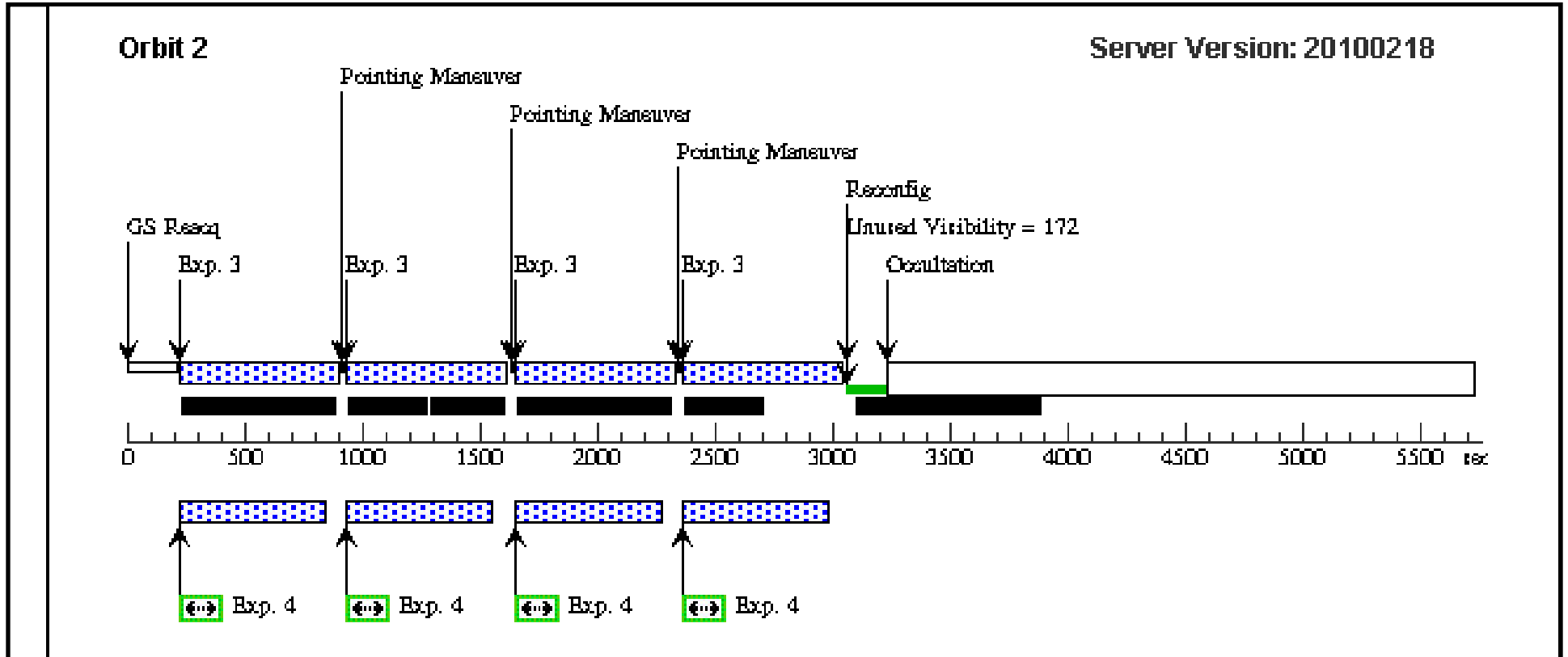


Proposal 11636 - Visit 19 - First Resolved Imaging of Escaping Lyman Continuum

Sat Mar 13 02:03:21 GMT 2010

Visit	Proposal 11636, Visit 19, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: ORIENT 250D TO 250 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(3)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=4 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false					(1-2), (3-4)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	SSA-22A-IR	RA: 22 17 20.7000 (334.3362500d) Dec: +00 17 19.67 (.28880d) Equinox: J2000		V=24.5+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) SSA-22A-IR	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=14; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O BASE1B3	Pattern 3, Exps 1-2 (3) Prime + Parallel Group 1-2	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Pattern 3, Exps 1-2 (3) Prime + Parallel Group 1-2	500. Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	3		(2) SSA-22A-IR	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=14; SAMP-SEQ=SPAR S50		Pattern 3, Exps 3-4 (3) Prime + Parallel Group 3-4	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W			Pattern 3, Exps 3-4 (3) Prime + Parallel Group 3-4	500. Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]





Proposal 11636 - Visit 20 - First Resolved Imaging of Escaping Lyman Continuum

Sat Mar 13 02:03:23 GMT 2010

Visit	Proposal 11636, Visit 20, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: ORIENT 220D TO 220 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(3)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=4 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(3)	SSA-22A-IR2	RA: 22 17 24.5515 (334.3522979d) Dec: +00 17 4.41 (.28456d) Equinox: J2000			V=24.5+/-0.1	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) SSA-22A-IR2	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=14; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O BASE1B3	Pattern 3, Exps 1-2 (3) Prime + Parallel Group 1-2	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Pattern 3, Exps 1-2 (3) Prime + Parallel Group 1-2	500. Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	3		(3) SSA-22A-IR2	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=14; SAMP-SEQ=SPAR S50		Pattern 3, Exps 3-4 (3) Prime + Parallel Group 3-4	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W			Pattern 3, Exps 3-4 (3) Prime + Parallel Group 3-4	500. Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

