



13000 - Impact of Environments on Lyman alpha Emitting Galaxies at High Redshift ($z \sim 2.7$)

Cycle: 20, 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) DENS-1	WFC3/IR	4	09-Jul-2012 23:31:17.0	yes
02	(2) DENS-2	WFC3/IR	4	09-Jul-2012 23:32:03.0	yes
03	(3) DENS-3	WFC3/IR	4	09-Jul-2012 23:32:42.0	yes
04	(4) FIELD-1	WFC3/IR	4	09-Jul-2012 23:33:23.0	yes
05	(5) FIELD-2	WFC3/IR	4	09-Jul-2012 23:34:03.0	yes
06	(6) FIELD-3	WFC3/IR	4	09-Jul-2012 23:34:40.0	yes
07	(7) FIELD-4	WFC3/IR	4	09-Jul-2012 23:35:21.0	yes

28 Total Orbits Used

ABSTRACT

In the current paradigm of hierarchical structure formation of the Universe, environment appears to have a critical impact on galaxy formation and evolution. Our team has performed a deep intermediate-band survey for Lyman alpha emission in a $\sim 1 \text{ deg}^2$ region (corresponding to $\sim 100 \tilde{\text{A}} 100$ comoving Mpc^2) around the $z = 2.656$ Ly blob discovered by Dey. et al. (2005). This survey has uncovered 2200 Ly emitting galaxies (LAEs) and two more large Ly blobs. The blobs lie within a $> \sim 60 \text{ Mpc}$ (comoving) long filament traced by the LAEs. The number density of LAEs is higher near the blobs, showing an overdensity at least $> 3 \tilde{\text{A}}$ the field density.

We propose to investigate the effect of environment on LAEs by comparing the properties of those near high density regions with those in the outlying low- density regions of the field. The WFC3/IR F110W (J) and F160W (H) filters are fortuitously positioned right at the redshifted age-sensitive Balmer break region at $z = 2.7$, ideal for estimating stellar mass and age in the relatively dust-free LAEs. With F139M images, we will also measure the strength of the redshifted [OII](3727,3729) doublet in the LAEs, and thereby estimate (a) the line contamination to the broad-band photometry; (b) the star- formation rate (and compare it to the SFR derived from Lyman alpha and UV continuum; and (c) discover other non-Ly-emitting [OII] emitters in the field. A detailed comparison of the stellar populations and masses of LAEs and [OII] emitters in low and high density environments will shed light on the formation history of the densest locations in the high-redshift Universe.

OBSERVING DESCRIPTION

We have 7 pointings in the Bootes field. Each pointing consists of 4 orbits (F110W [1], F160W [1], F139M [2]).

Proposal 13000 - dens1 (01) - Impact of Environments on Lyman alpha Emitting Galaxies at High Redshift (z ~ 2.7)

Tue Jul 10 03:35:34 GMT 2012

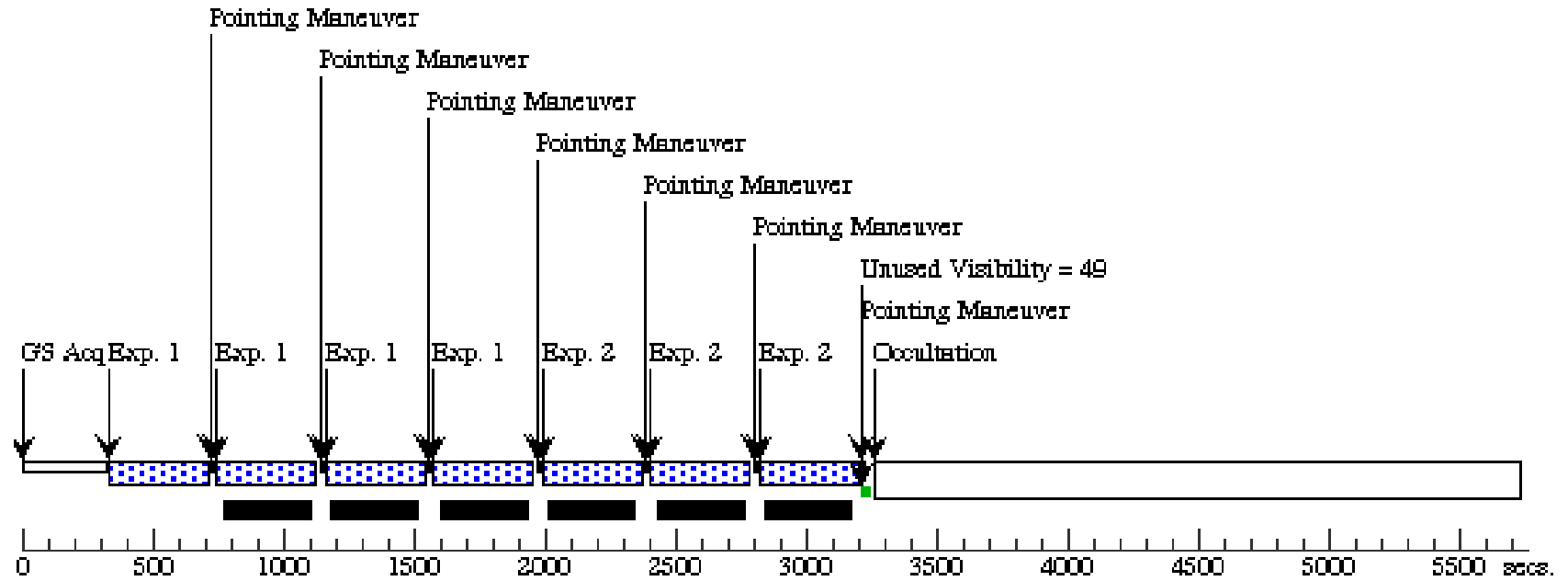
Visit	Proposal 13000, dens1 (01)					
		Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)				
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1), (3), (5), (7)	
	(2)	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(2), (4), (6), (8)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	DENS-1	RA: 14 34 10.3198 (218.5429992d) Dec: +33 19 22.81 (33.32300d) Equinox: J2000		V=26	Reference Frame: ICRS

Proposal 13000 - dens1 (01) - Impact of Environments on Lyman alpha Emitting Galaxies at High Redshift ($z \sim 2.7$)

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F110W1	(1) DENS-1	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 1, Exps 1-1 i n dens1 (01) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	F110W2	(1) DENS-1	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 2, Exps 2-2 i n dens1 (01) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	3	F160W1	(1) DENS-1	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 1, Exps 3-3 i n dens1 (01) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	4	F160W2	(1) DENS-1	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 2, Exps 4-4 i n dens1 (01) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[2]
	5	F139M1	(1) DENS-1	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 1, Exps 5-5 i n dens1 (01) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
	6	F139M2	(1) DENS-1	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 2, Exps 6-6 i n dens1 (01) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[3]
	7	F139M3	(1) DENS-1	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 1, Exps 7-7 i n dens1 (01) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]
	8	F139M4	(1) DENS-1	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 2, Exps 8-8 i n dens1 (01) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[4]

Orbit 1

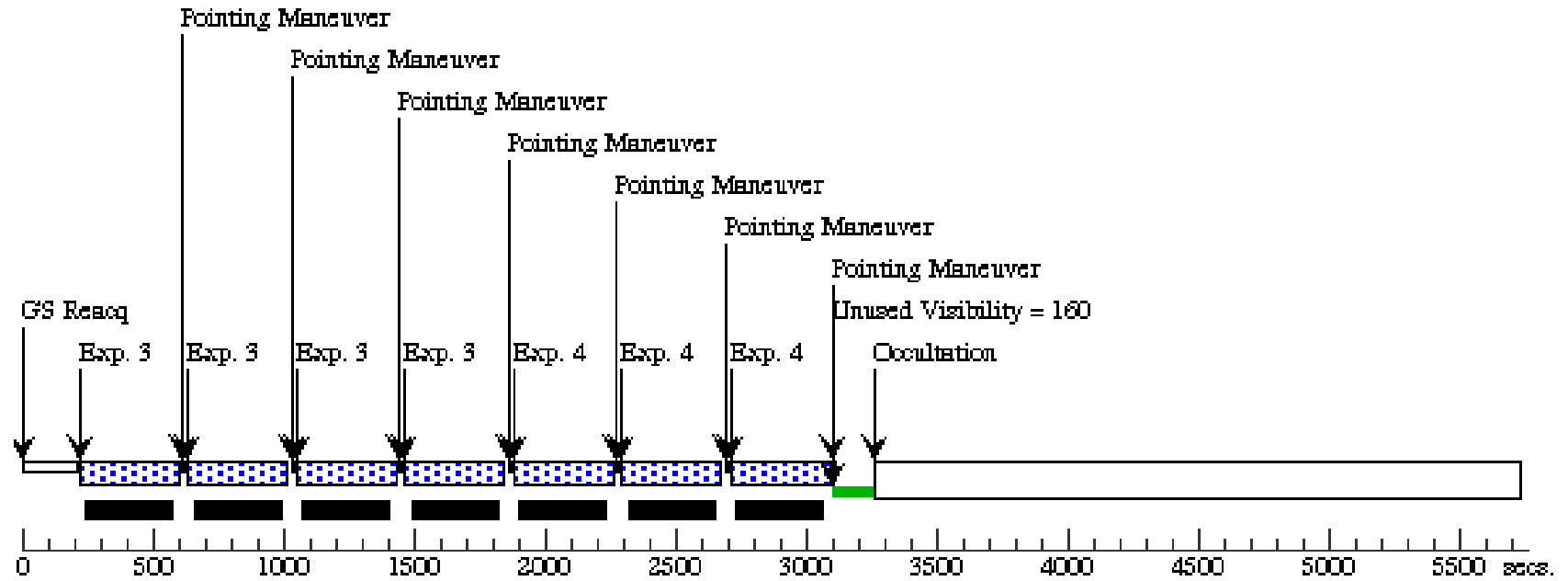
Server Version: 20120604



Orbit Structure

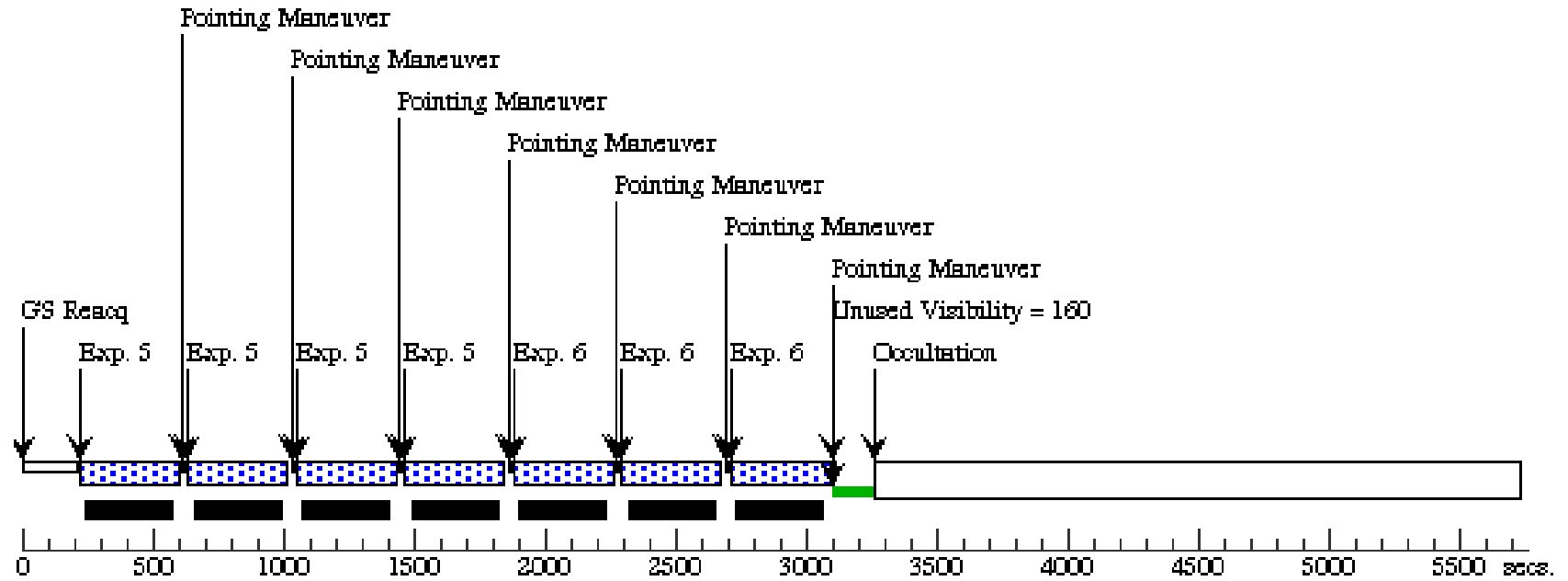
Orbit 2

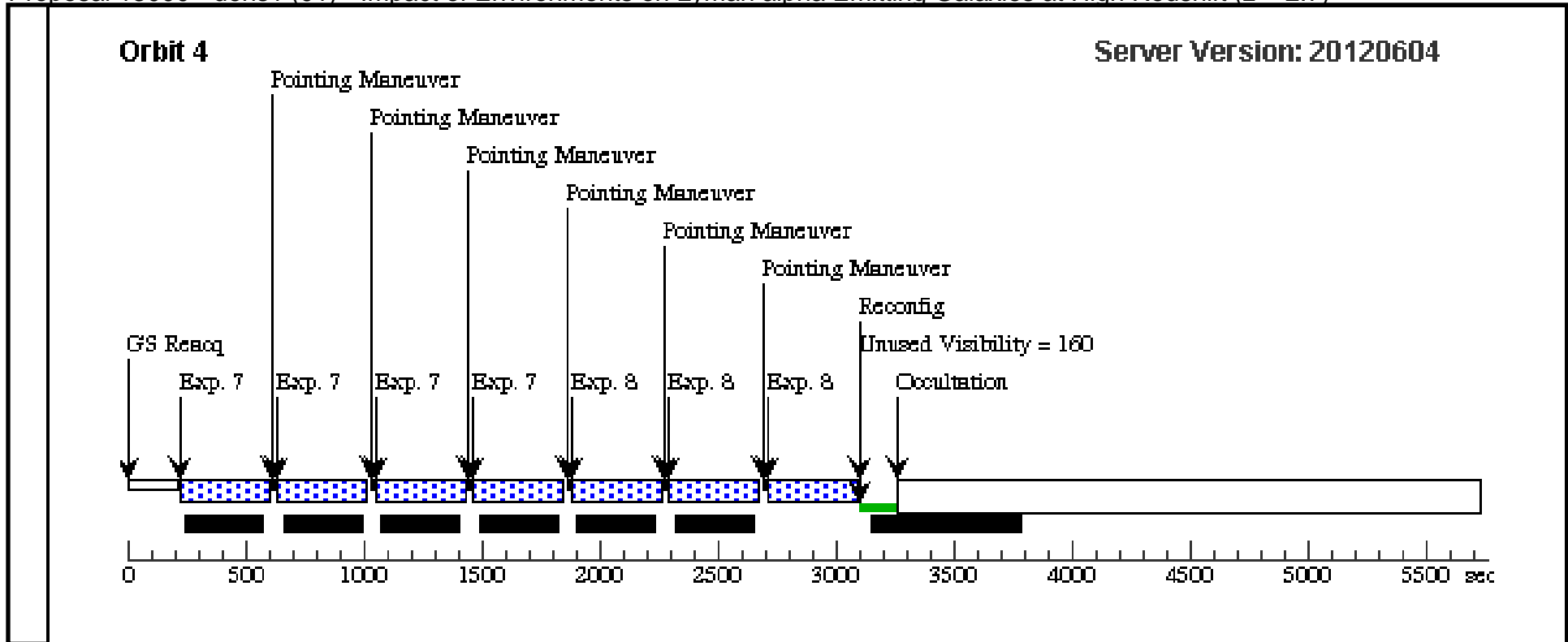
Server Version: 20120604



Orbit 3

Server Version: 20120604





Proposal 13000 - dens2 (02) - Impact of Environments on Lyman alpha Emitting Galaxies at High Redshift (z ~ 2.7)

Tue Jul 10 03:35:39 GMT 2012

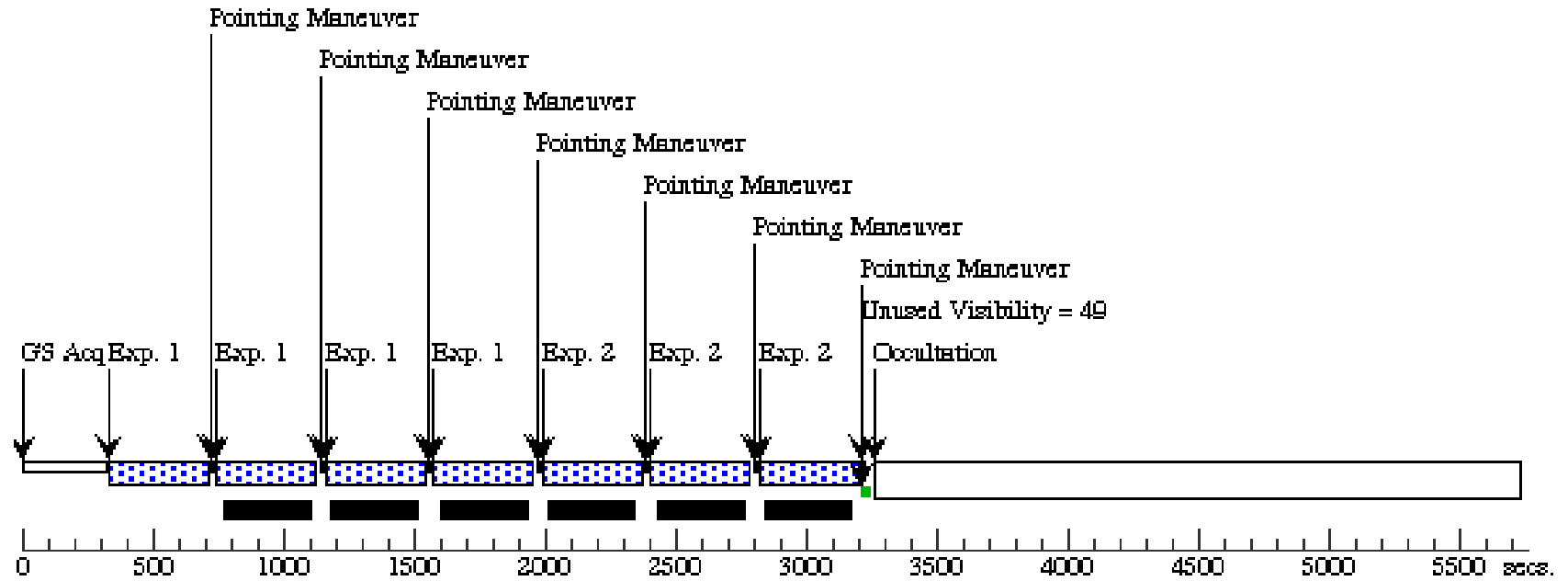
Visit	Proposal 13000, dens2 (02)					
		Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)				
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	(1), (3), (5), (7)		
	(2)	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(2), (4), (6), (8)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	DENS-2	RA: 14 34 12.9602 (218.5540008d) Dec: +33 16 15.60 (33.27100d) Equinox: J2000		V=26	Reference Frame: ICRS

Proposal 13000 - dens2 (02) - Impact of Environments on Lyman alpha Emitting Galaxies at High Redshift ($z \sim 2.7$)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	F110W1	(2) DENS-2	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 1, Exps 1-1 i n dens2 (02) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	F110W2	(2) DENS-2	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 2, Exps 2-2 i n dens2 (02) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	3	F160W1	(2) DENS-2	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 1, Exps 3-3 i n dens2 (02) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	4	F160W2	(2) DENS-2	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 2, Exps 4-4 i n dens2 (02) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[2]
	5	F139M1	(2) DENS-2	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 1, Exps 5-5 i n dens2 (02) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
	6	F139M2	(2) DENS-2	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 2, Exps 6-6 i n dens2 (02) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[3]
	7	F139M3	(2) DENS-2	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 1, Exps 7-7 i n dens2 (02) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]
	8	F139M4	(2) DENS-2	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 2, Exps 8-8 i n dens2 (02) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[4]

Orbit 1

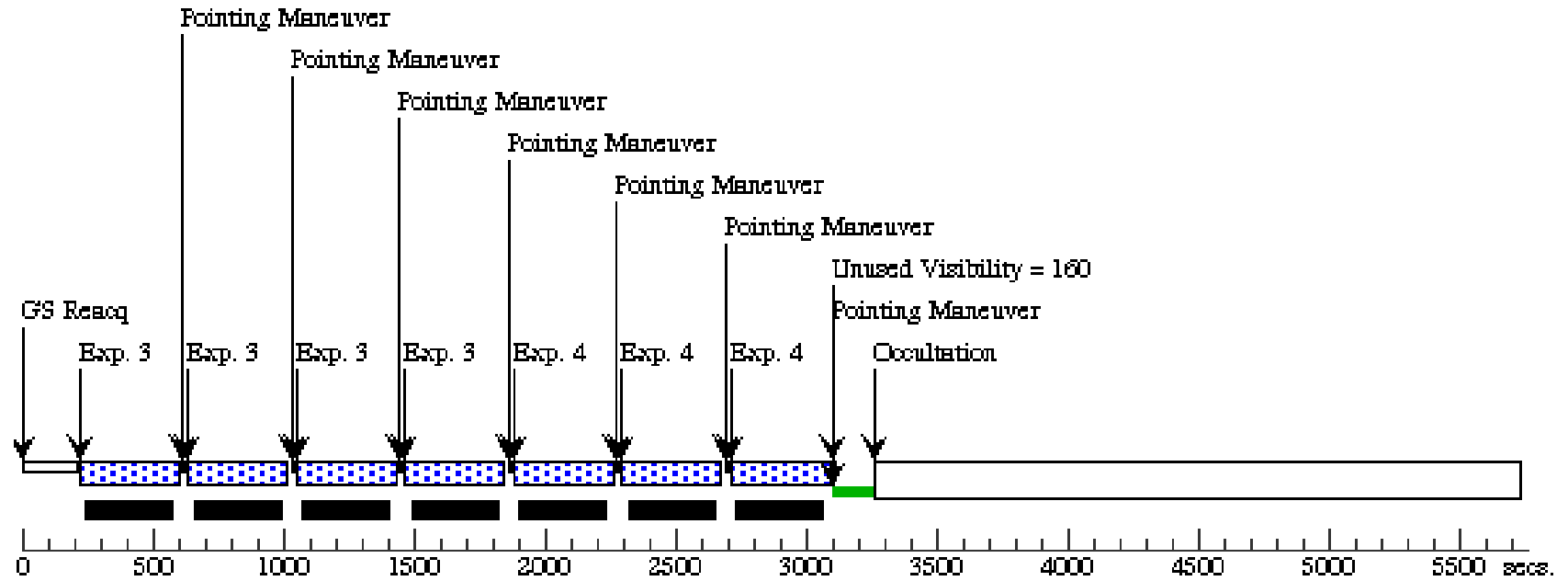
Server Version: 20120604



Orbit Structure

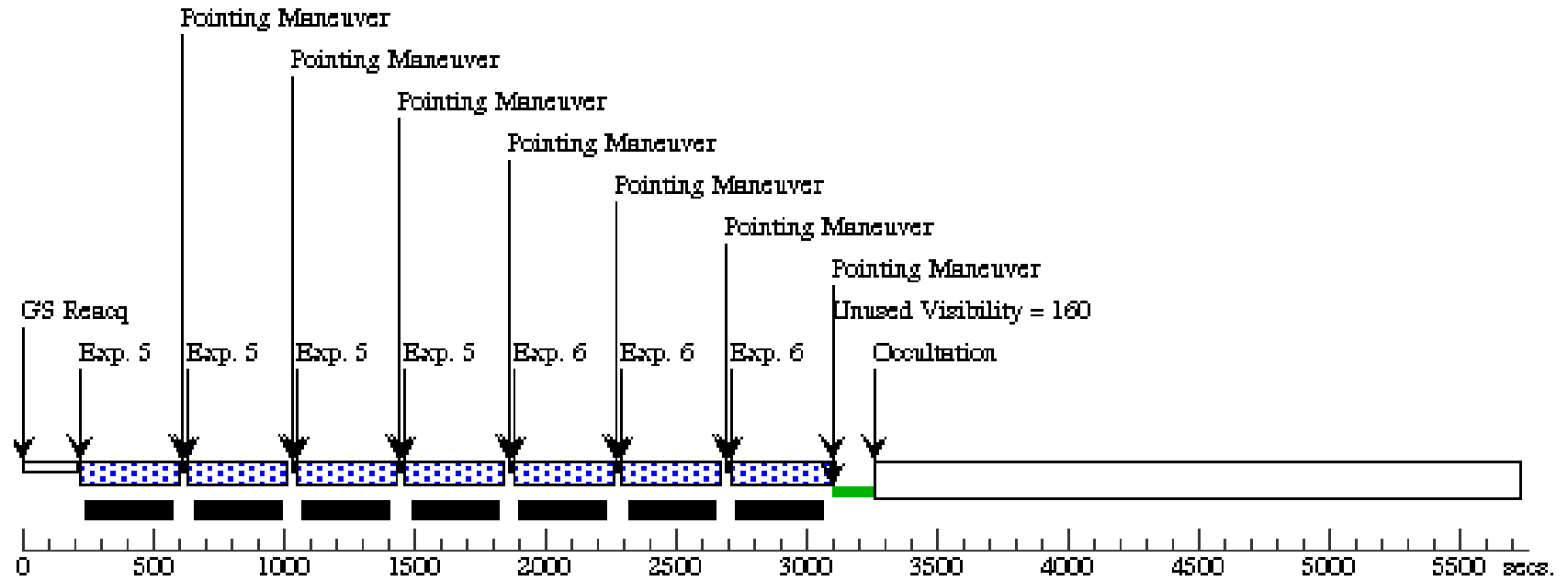
Orbit 2

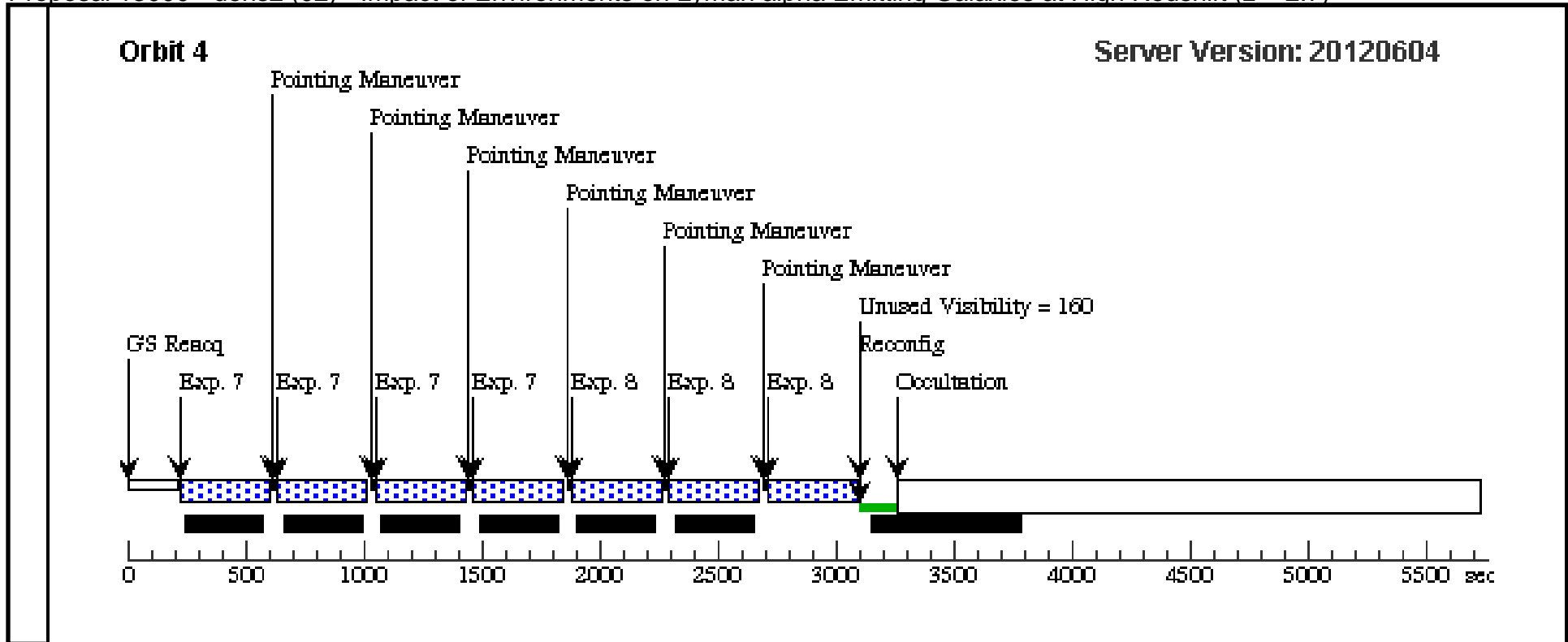
Server Version: 20120604



Orbit 3

Server Version: 20120604





Proposal 13000 - dens3 (03) - Impact of Environments on Lyman alpha Emitting Galaxies at High Redshift (z ~ 2.7)

Tue Jul 10 03:35:43 GMT 2012

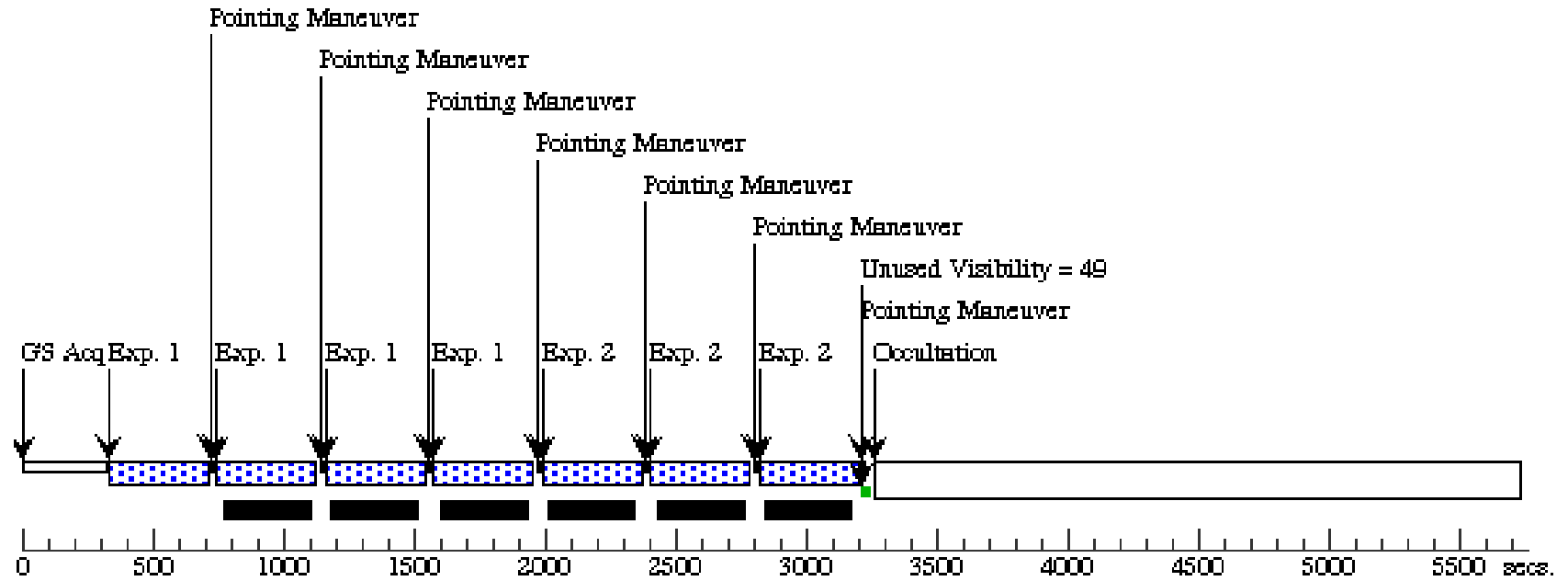
Visit	Proposal 13000, dens3 (03) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)					
	#	Primary Pattern	Secondary Pattern	Exposures		
Patterns	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	(1), (3), (5), (7)		
	(2)	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(2), (4), (6), (8)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	DENS-3	RA: 14 34 0.2417 (218.5010071d) Dec: +33 18 0.00 (33.30000d) Equinox: J2000		V=26	Reference Frame: ICRS

Proposal 13000 - dens3 (03) - Impact of Environments on Lyman alpha Emitting Galaxies at High Redshift ($z \sim 2.7$)

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F110W1	(3) DENS-3	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 1, Exps 1-1 i n dens3 (03) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	F110W2	(3) DENS-3	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 2, Exps 2-2 i n dens3 (03) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	3	F160W1	(3) DENS-3	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 1, Exps 3-3 i n dens3 (03) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	4	F160W2	(3) DENS-3	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 2, Exps 4-4 i n dens3 (03) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[2]
	5	F139M1	(3) DENS-3	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 1, Exps 5-5 i n dens3 (03) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
	6	F139M2	(3) DENS-3	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 2, Exps 6-6 i n dens3 (03) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[3]
	7	F139M3	(3) DENS-3	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 1, Exps 7-7 i n dens3 (03) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]
	8	F139M4	(3) DENS-3	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 2, Exps 8-8 i n dens3 (03) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[4]

Orbit 1

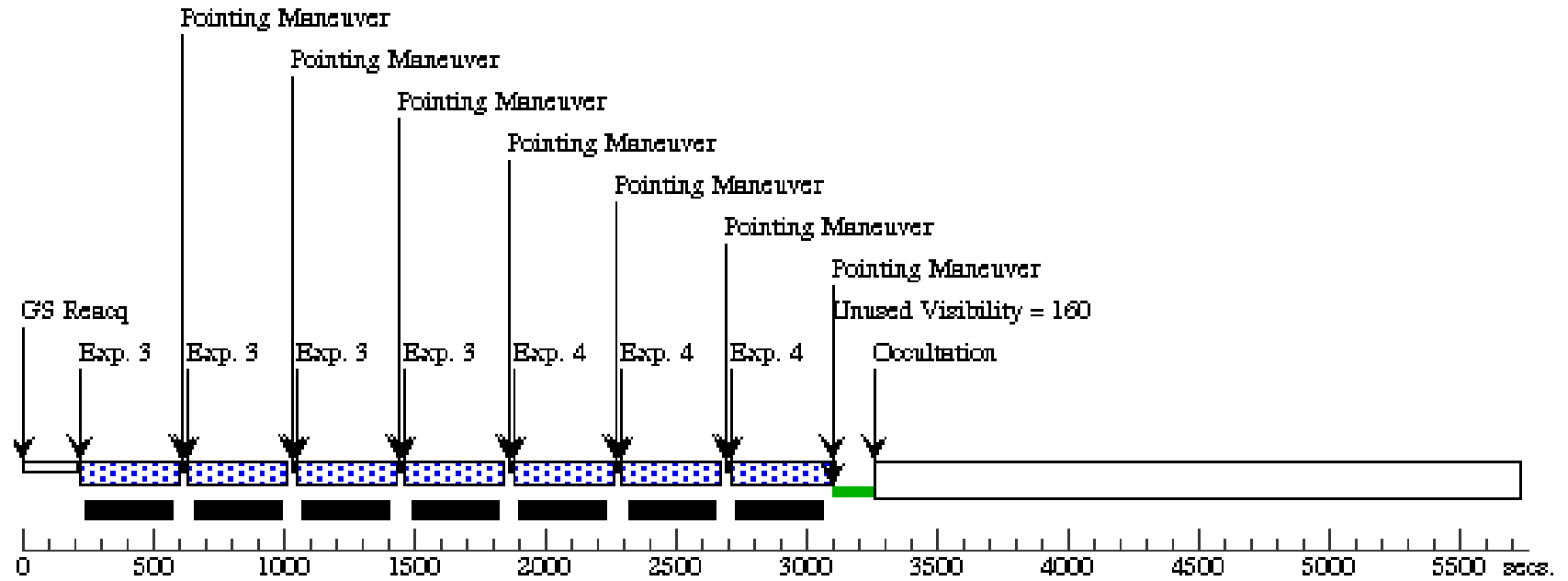
Server Version: 20120604



Orbit Structure

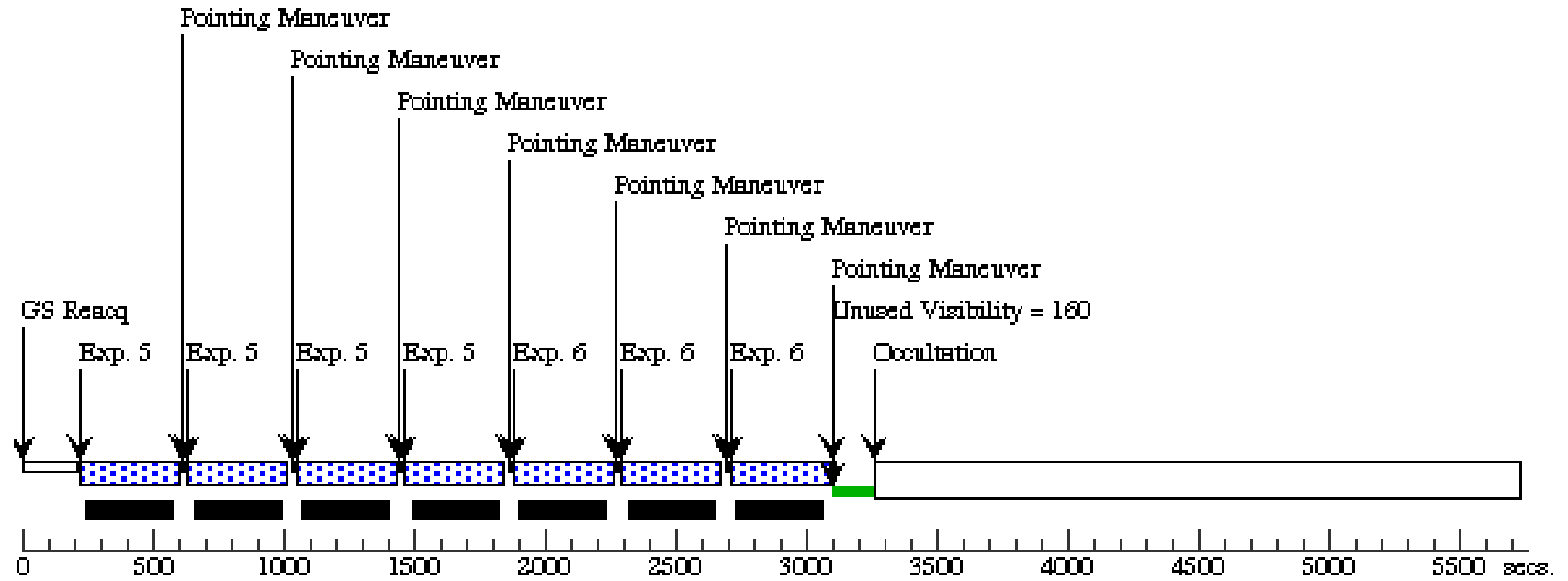
Orbit 2

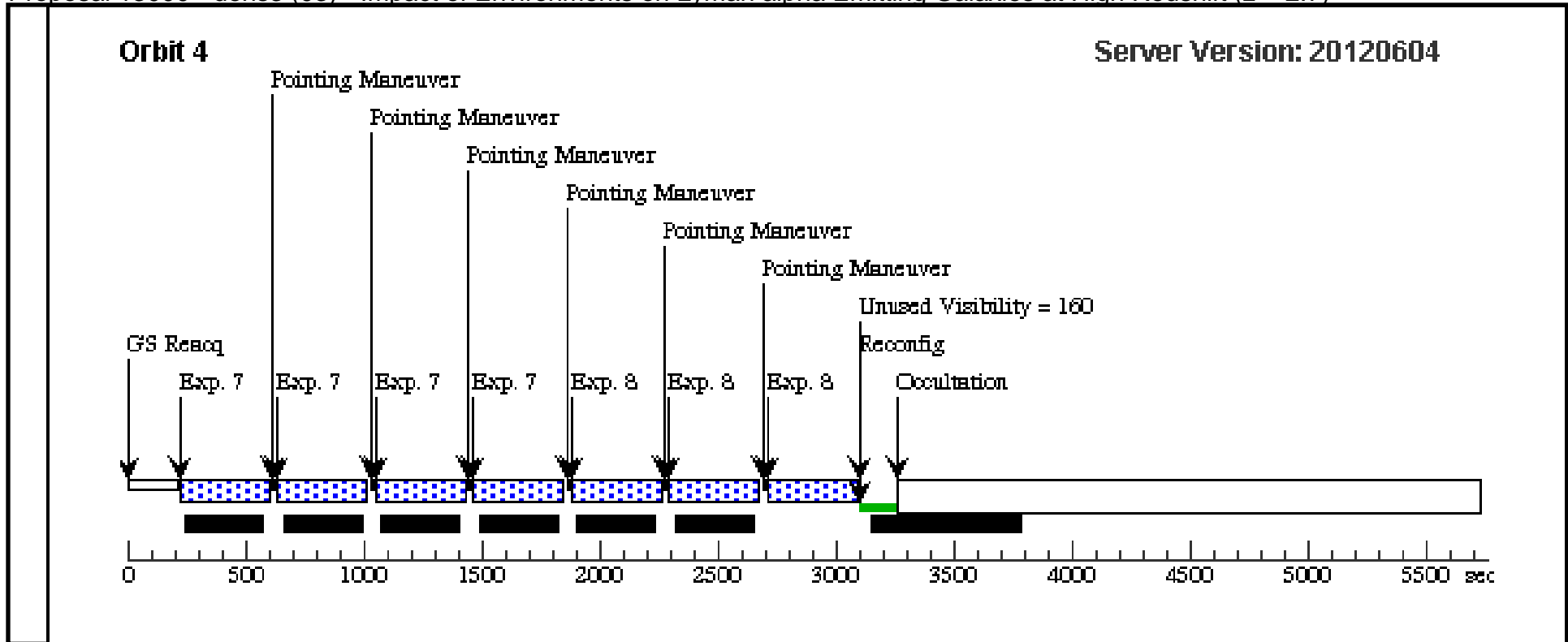
Server Version: 20120604



Orbit 3

Server Version: 20120604





Proposal 13000 - field1 (04) - Impact of Environments on Lyman alpha Emitting Galaxies at High Redshift (z ~ 2.7)

Tue Jul 10 03:35:47 GMT 2012

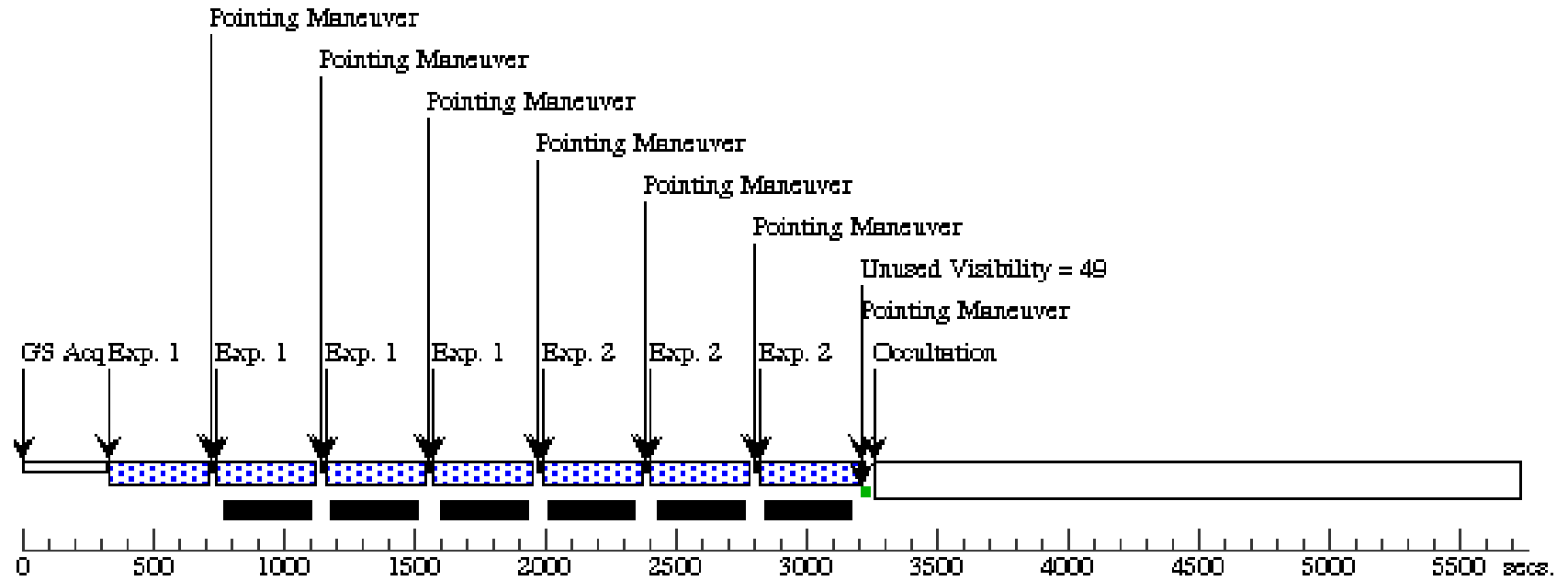
Visit	Proposal 13000, field1 (04) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1), (3), (5), (7)	
	(2)	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(2), (4), (6), (8)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	FIELD-1	RA: 14 32 47.2815 (218.1970062d) Dec: +33 14 24.01 (33.24000d) Equinox: J2000		V=26	Reference Frame: ICRS

Proposal 13000 - field1 (04) - Impact of Environments on Lyman alpha Emitting Galaxies at High Redshift ($z \sim 2.7$)

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F110W1	(4) FIELD-1	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 1, Exps 1-1 i n field1 (04) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	F110W2	(4) FIELD-1	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 2, Exps 2-2 i n field1 (04) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	3	F160W1	(4) FIELD-1	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 1, Exps 3-3 i n field1 (04) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	4	F160W2	(4) FIELD-1	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 2, Exps 4-4 i n field1 (04) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[2]
	5	F139M1	(4) FIELD-1	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 1, Exps 5-5 i n field1 (04) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
	6	F139M2	(4) FIELD-1	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 2, Exps 6-6 i n field1 (04) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[3]
	7	F139M3	(4) FIELD-1	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 1, Exps 7-7 i n field1 (04) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]
	8	F139M4	(4) FIELD-1	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 2, Exps 8-8 i n field1 (04) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[4]

Orbit 1

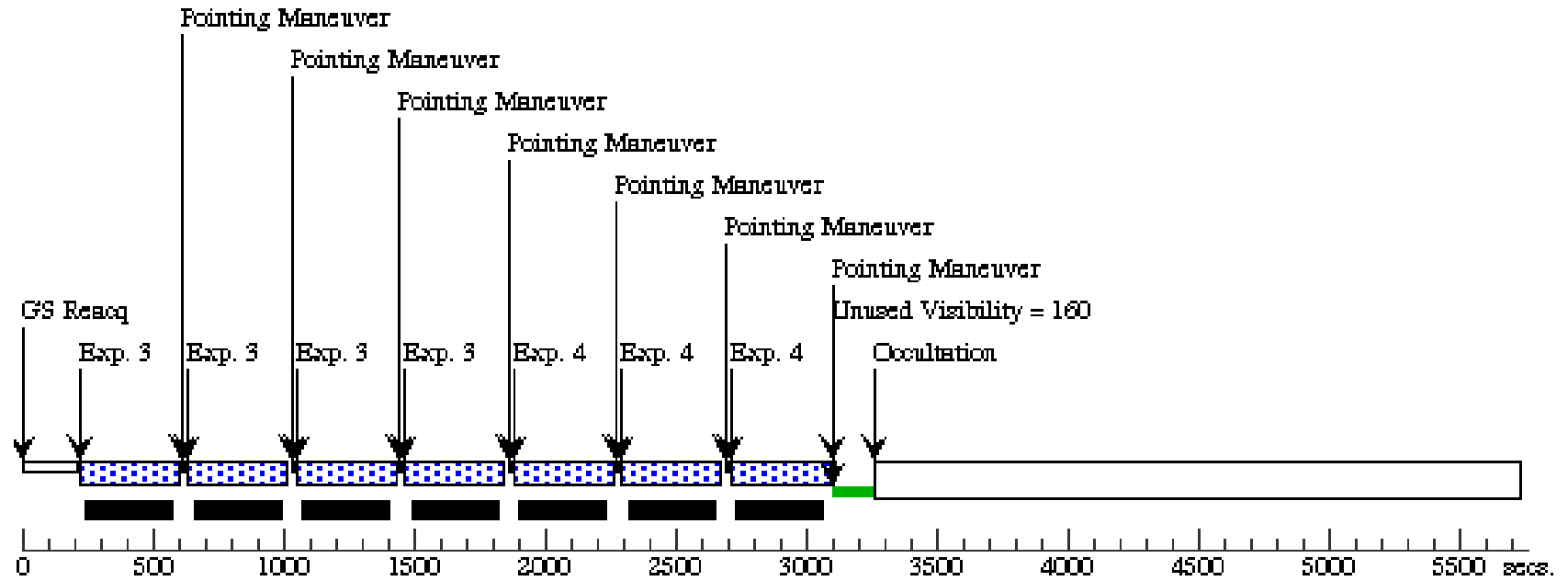
Server Version: 20120604



Orbit Structure

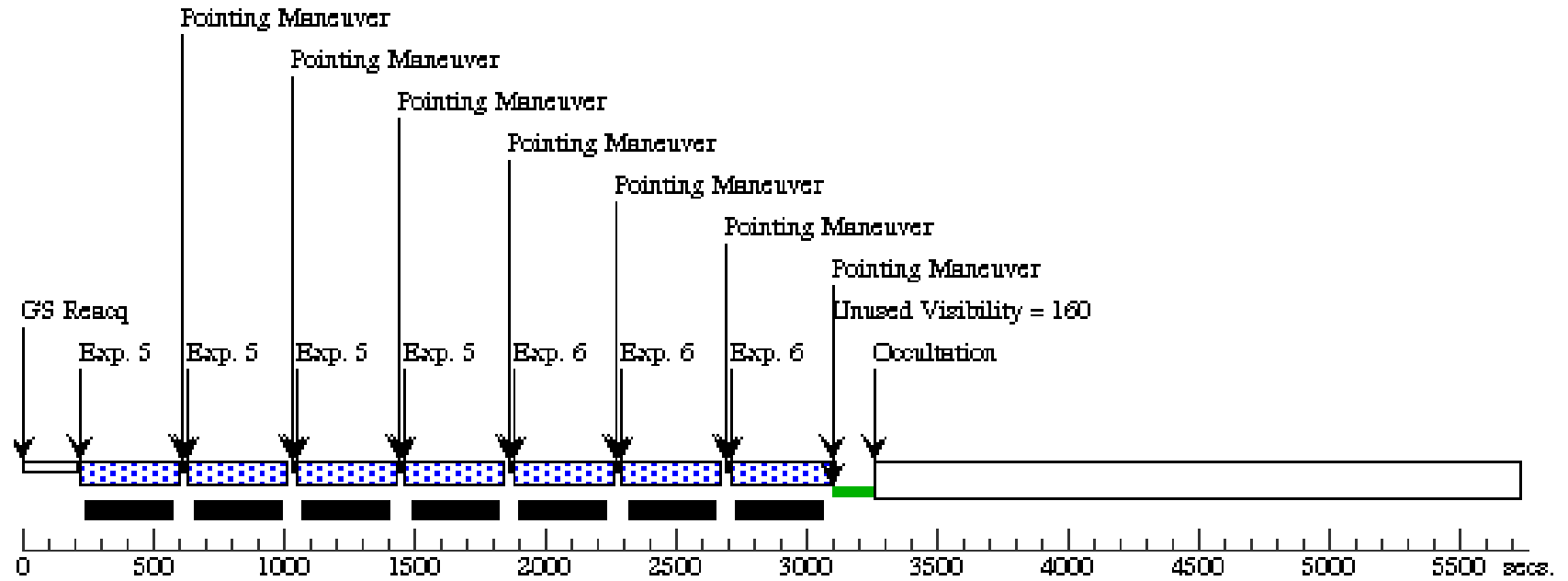
Orbit 2

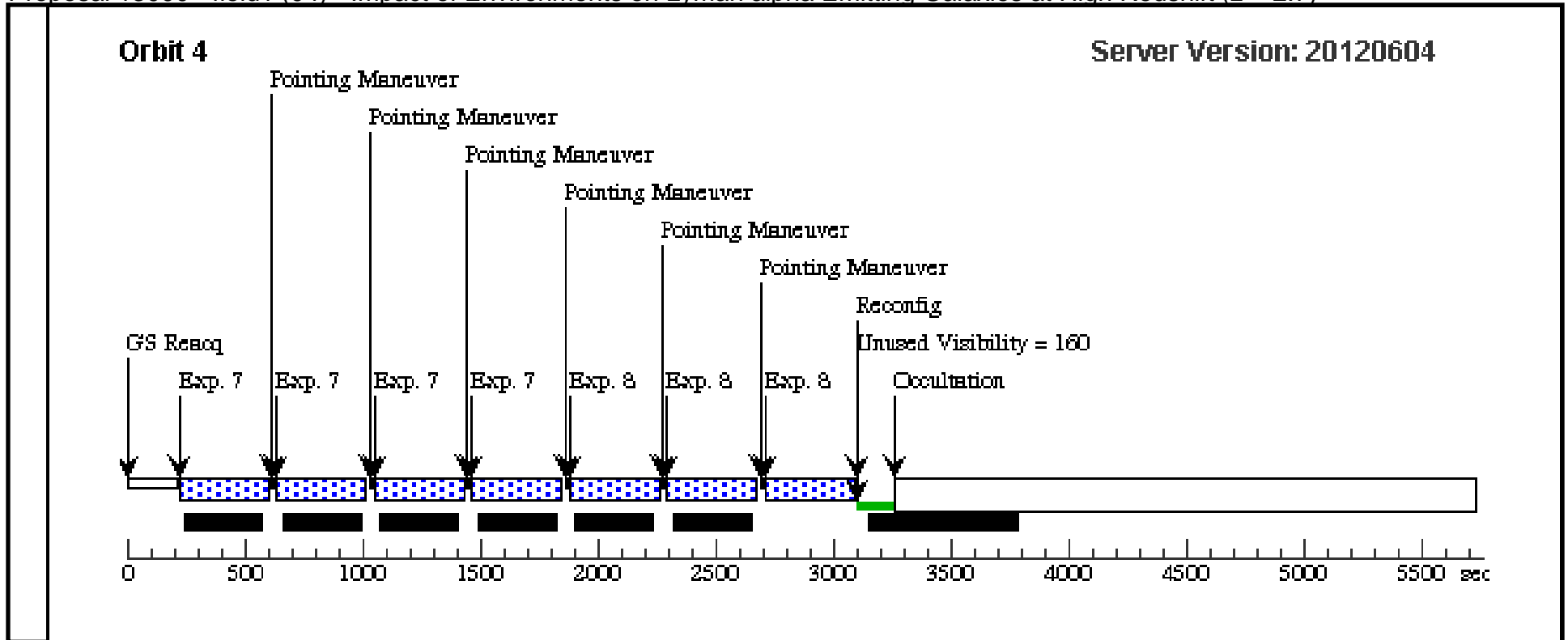
Server Version: 20120604



Orbit 3

Server Version: 20120604





Proposal 13000 - field2 (05) - Impact of Environments on Lyman alpha Emitting Galaxies at High Redshift (z ~ 2.7)

Tue Jul 10 03:35:51 GMT 2012

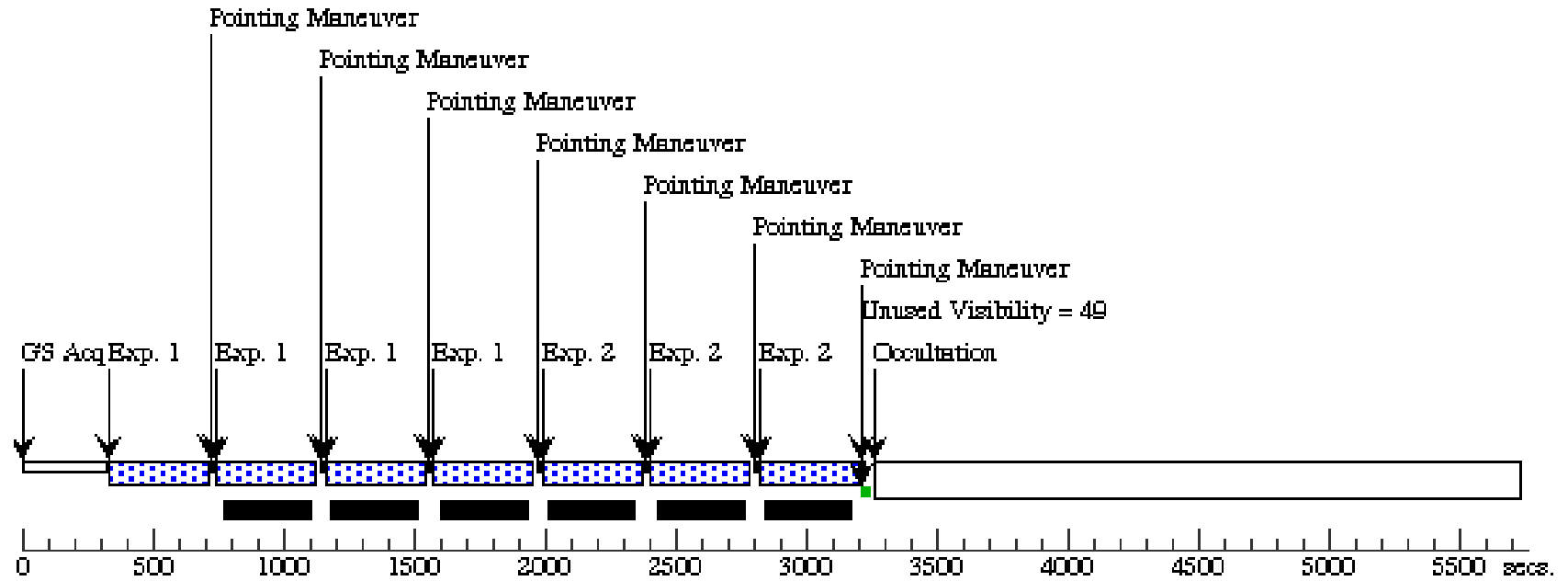
Visit	Proposal 13000, field2 (05) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)					
	#	Primary Pattern	Secondary Pattern	Exposures		
Patterns	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	(1), (3), (5), (7)		
	(2)	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(2), (4), (6), (8)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	FIELD-2	RA: 14 31 8.6389 (217.7859954d) Dec: +33 10 48.00 (33.18000d) Equinox: J2000		V=26	Reference Frame: ICRS

Proposal 13000 - field2 (05) - Impact of Environments on Lyman alpha Emitting Galaxies at High Redshift ($z \sim 2.7$)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	F110W1	(5) FIELD-2	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 1, Exps 1-1 i n field2 (05) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	F110W2	(5) FIELD-2	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 2, Exps 2-2 i n field2 (05) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	3	F160W1	(5) FIELD-2	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 1, Exps 3-3 i n field2 (05) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	4	F160W2	(5) FIELD-2	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 2, Exps 4-4 i n field2 (05) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[2]
	5	F139M1	(5) FIELD-2	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 1, Exps 5-5 i n field2 (05) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
	6	F139M2	(5) FIELD-2	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 2, Exps 6-6 i n field2 (05) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[3]
	7	F139M3	(5) FIELD-2	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 1, Exps 7-7 i n field2 (05) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]
	8	F139M4	(5) FIELD-2	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 2, Exps 8-8 i n field2 (05) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[4]

Orbit 1

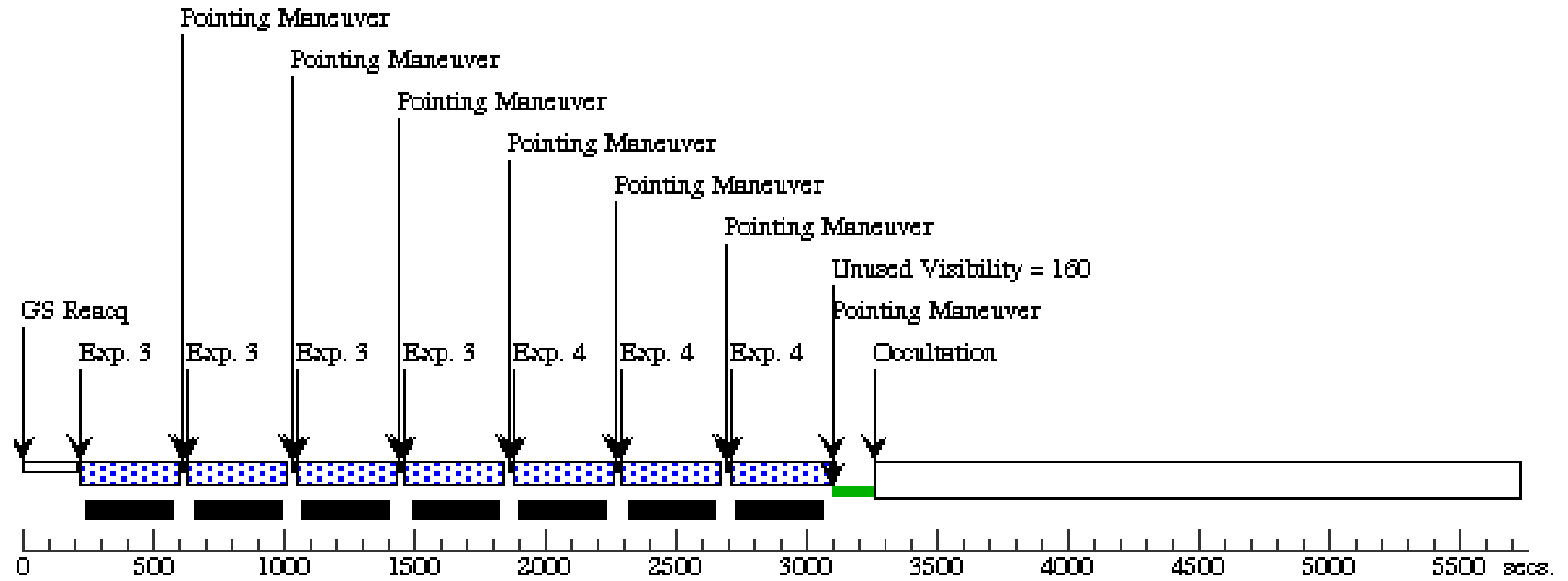
Server Version: 20120604



Orbit Structure

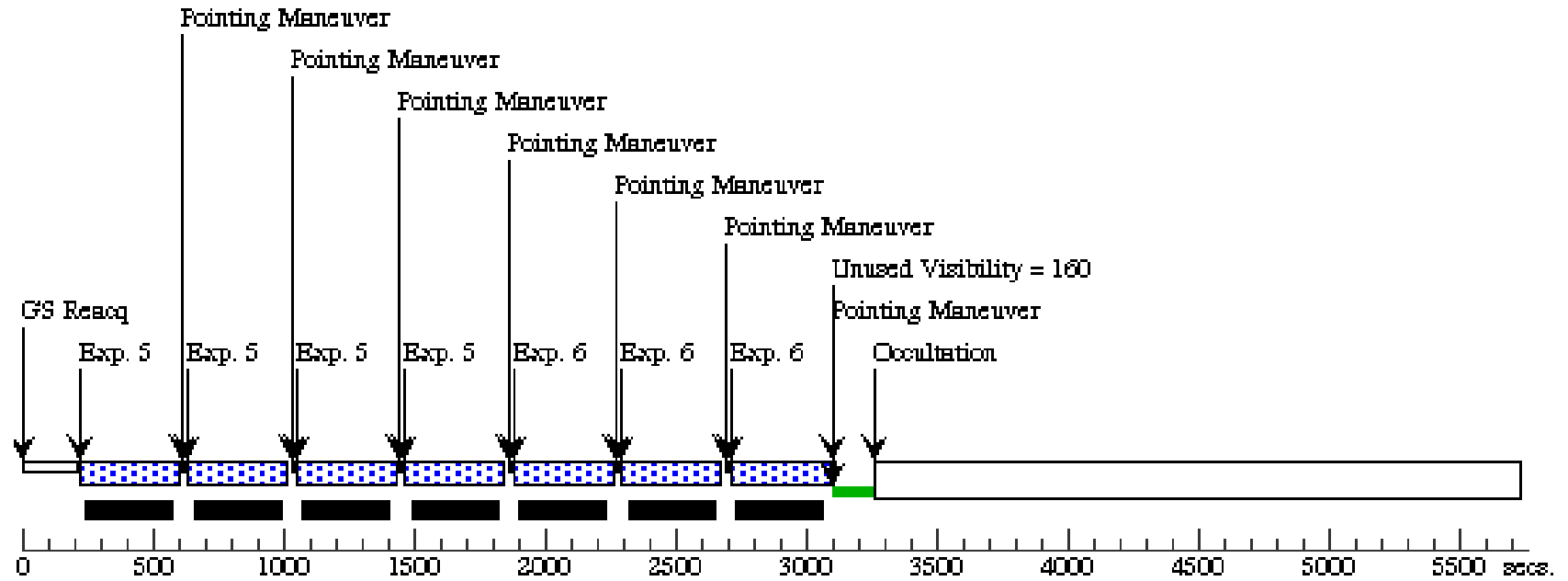
Orbit 2

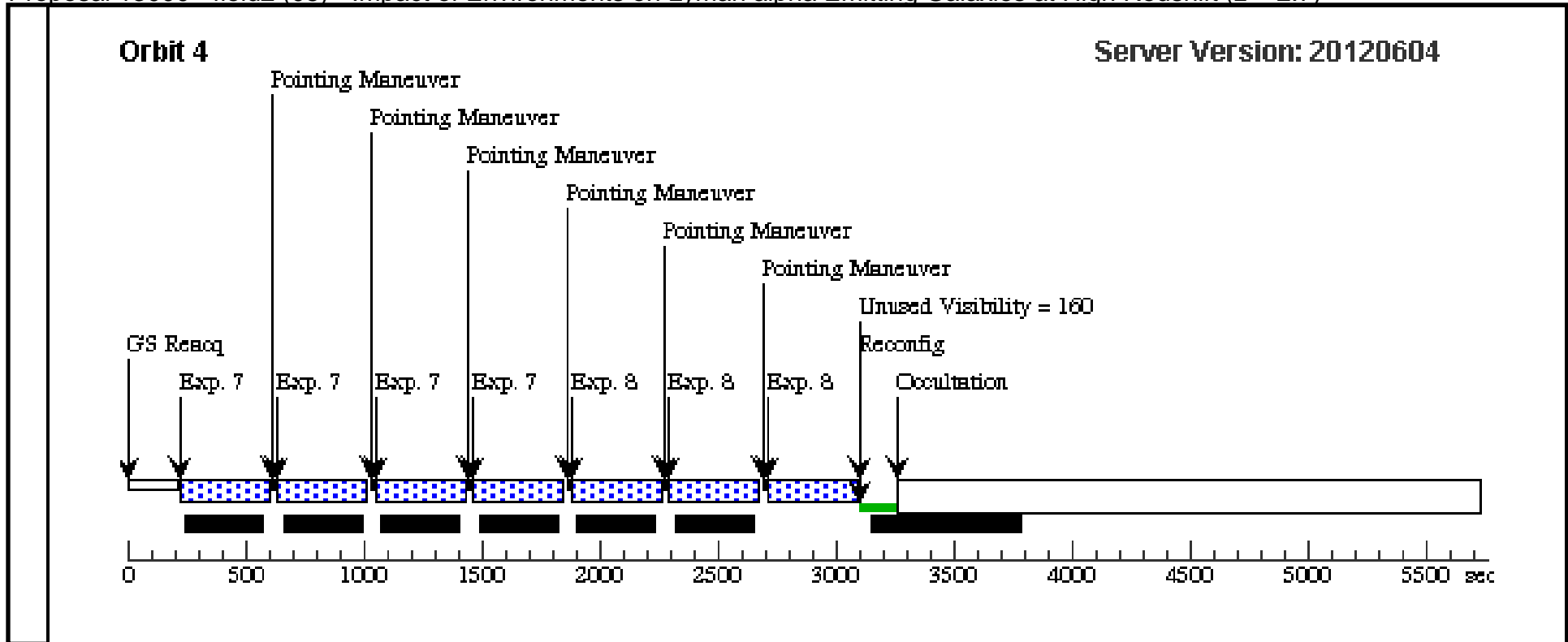
Server Version: 20120604



Orbit 3

Server Version: 20120604





Proposal 13000 - field3 (06) - Impact of Environments on Lyman alpha Emitting Galaxies at High Redshift (z ~ 2.7)

Tue Jul 10 03:35:57 GMT 2012

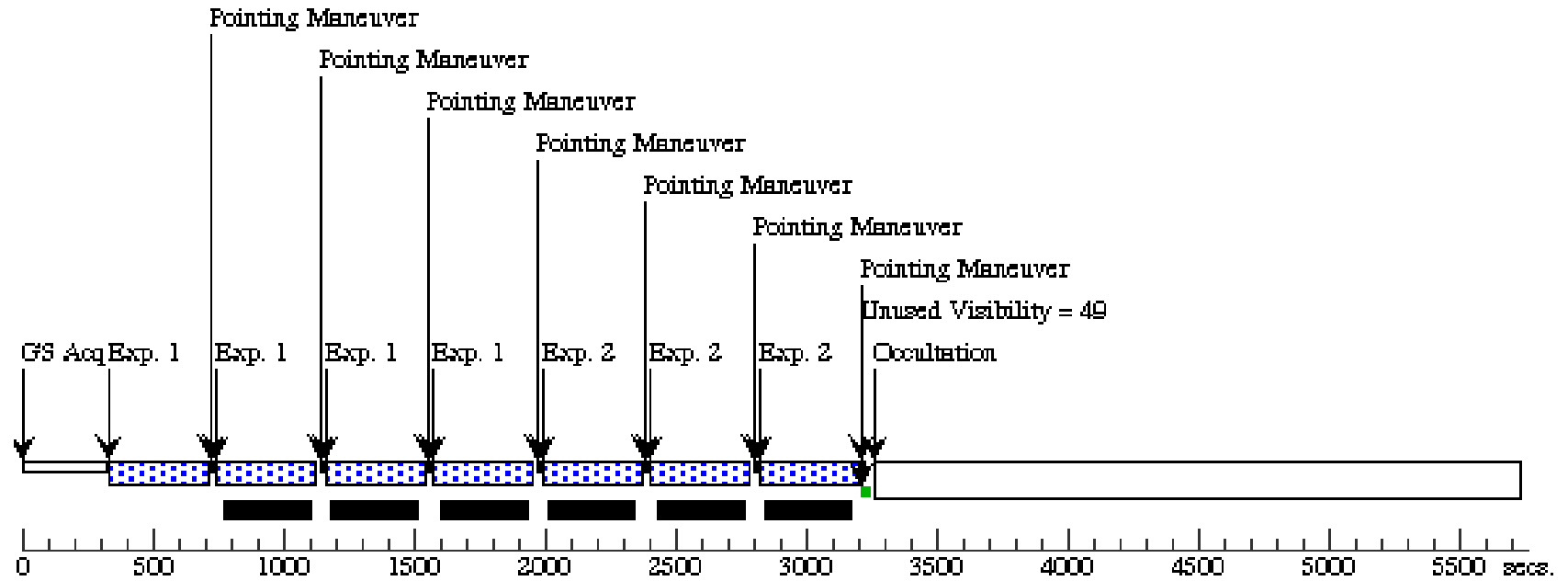
Visit	Proposal 13000, field3 (06) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)					
	#	Primary Pattern	Secondary Pattern	Exposures		
Patterns	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	(1), (3), (5), (7)		
	(2)	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(2), (4), (6), (8)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(6)	FIELD-3	RA: 14 32 20.6396 (218.0859983d) Dec: +33 19 44.39 (33.32900d) Equinox: J2000		V=26	Reference Frame: ICRS

Proposal 13000 - field3 (06) - Impact of Environments on Lyman alpha Emitting Galaxies at High Redshift ($z \sim 2.7$)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	F110W1	(6) FIELD-3	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 1, Exps 1-1 i n field3 (06) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	F110W2	(6) FIELD-3	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 2, Exps 2-2 i n field3 (06) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	3	F160W1	(6) FIELD-3	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 1, Exps 3-3 i n field3 (06) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	4	F160W2	(6) FIELD-3	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 2, Exps 4-4 i n field3 (06) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[2]
	5	F139M1	(6) FIELD-3	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 1, Exps 5-5 i n field3 (06) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
	6	F139M2	(6) FIELD-3	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 2, Exps 6-6 i n field3 (06) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[3]
	7	F139M3	(6) FIELD-3	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 1, Exps 7-7 i n field3 (06) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]
	8	F139M4	(6) FIELD-3	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25	Pattern 2, Exps 8-8 i n field3 (06) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[4]

Orbit 1

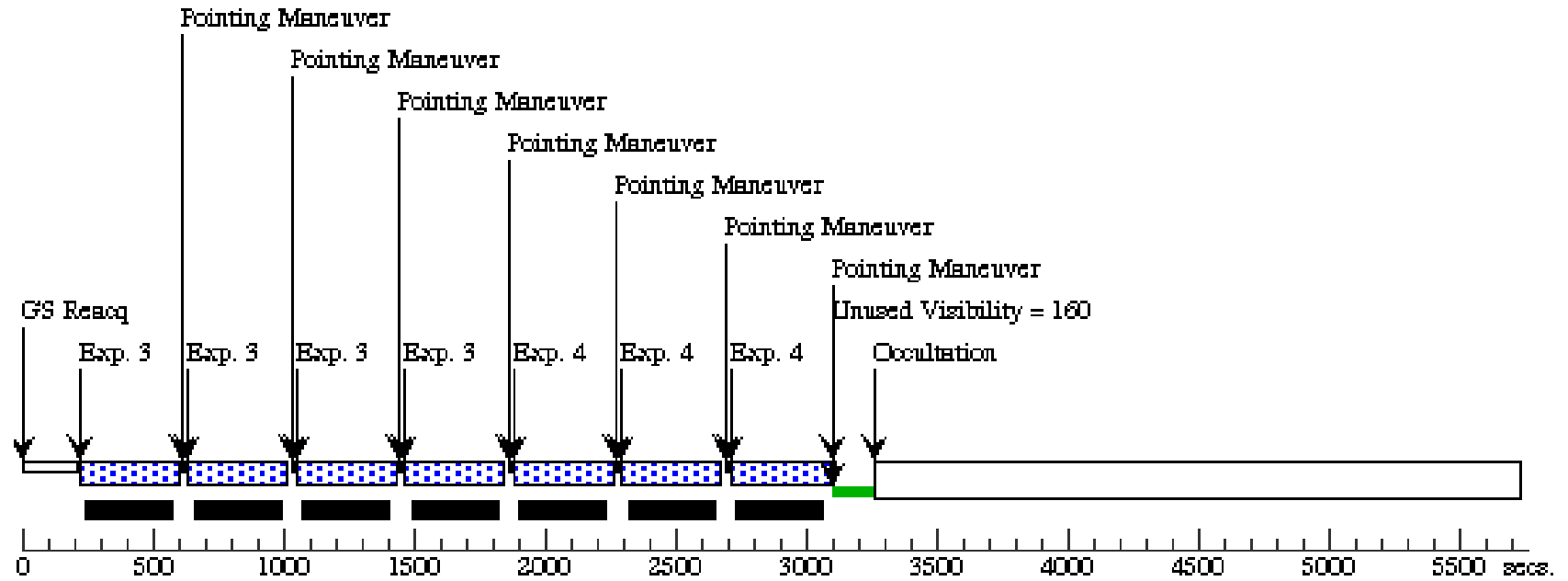
Server Version: 20120604



Orbit Structure

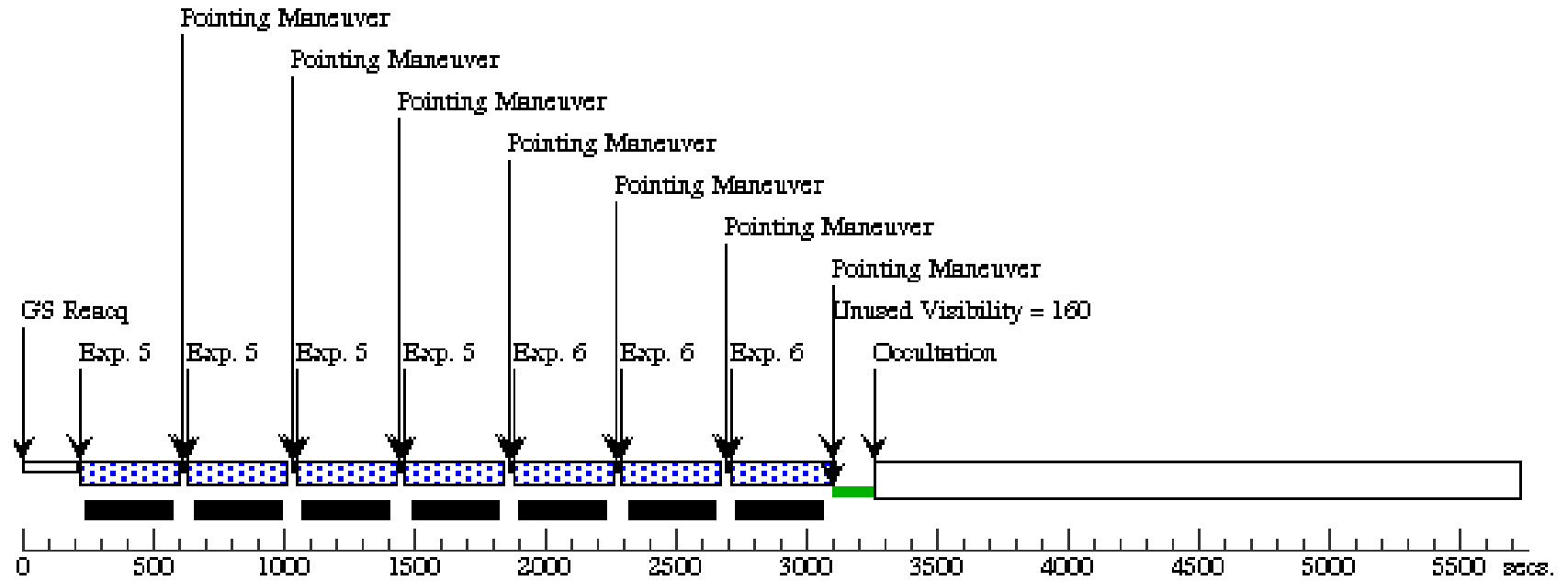
Orbit 2

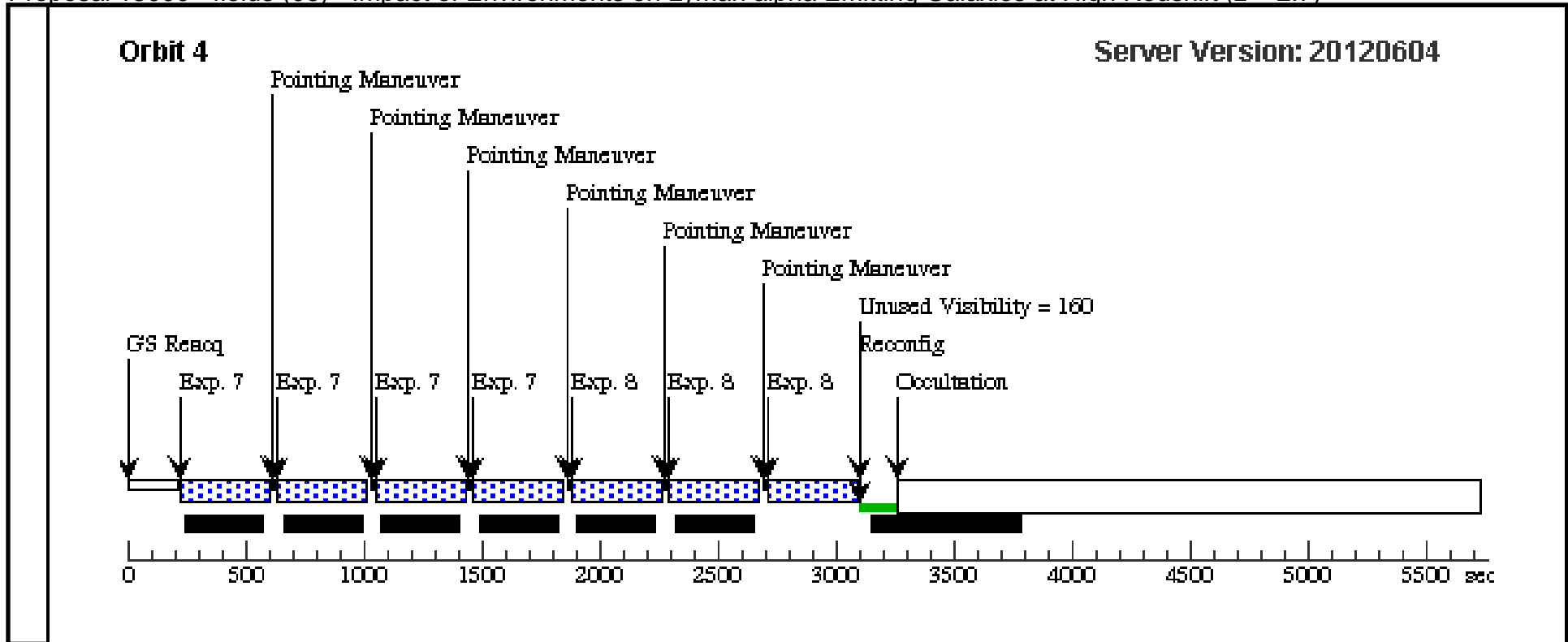
Server Version: 20120604



Orbit 3

Server Version: 20120604





Proposal 13000 - field4 (07) - Impact of Environments on Lyman alpha Emitting Galaxies at High Redshift (z ~ 2.7)

Tue Jul 10 03:36:01 GMT 2012

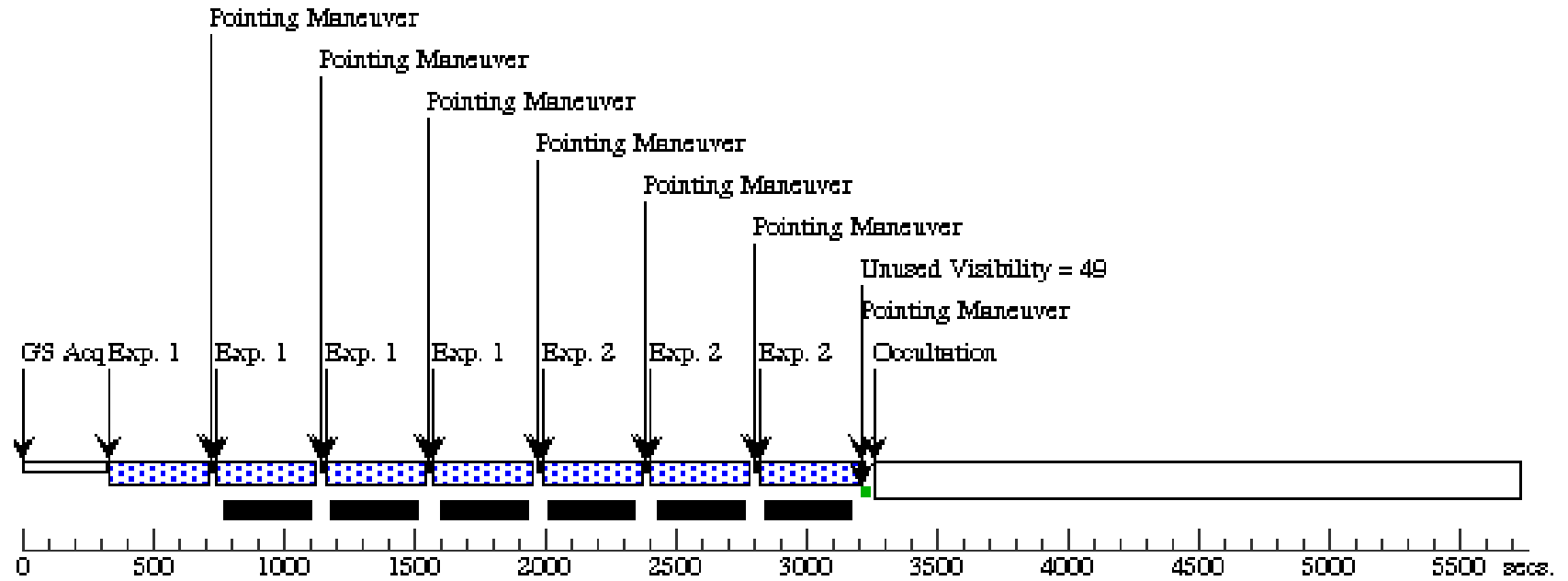
Visit	Proposal 13000, field4 (07) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)					
	#	Primary Pattern	Secondary Pattern	Exposures		
Patterns	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	(1), (3), (5), (7)		
	(2)	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(2), (4), (6), (8)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(7)	FIELD-4	RA: 14 33 0.4797 (218.2519988d) Dec: +33 40 19.20 (33.67200d) Equinox: J2000		V=26	Reference Frame: ICRS

Proposal 13000 - field4 (07) - Impact of Environments on Lyman alpha Emitting Galaxies at High Redshift ($z \sim 2.7$)

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F110W1	(7) FIELD-4	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 1, Exps 1-1 i n field4 (07) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	F110W2	(7) FIELD-4	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 2, Exps 2-2 i n field4 (07) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	3	F160W1	(7) FIELD-4	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 1, Exps 3-3 i n field4 (07) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	4	F160W2	(7) FIELD-4	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 2, Exps 4-4 i n field4 (07) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[2]
	5	F139M1	(7) FIELD-4	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 1, Exps 5-5 i n field4 (07) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
	6	F139M2	(7) FIELD-4	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 2, Exps 6-6 i n field4 (07) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[3]
	7	F139M3	(7) FIELD-4	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 1, Exps 7-7 i n field4 (07) (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]
	8	F139M4	(7) FIELD-4	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=15; SAMP-SEQ=SPAR S25		Pattern 2, Exps 8-8 i n field4 (07) (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[4]

Orbit 1

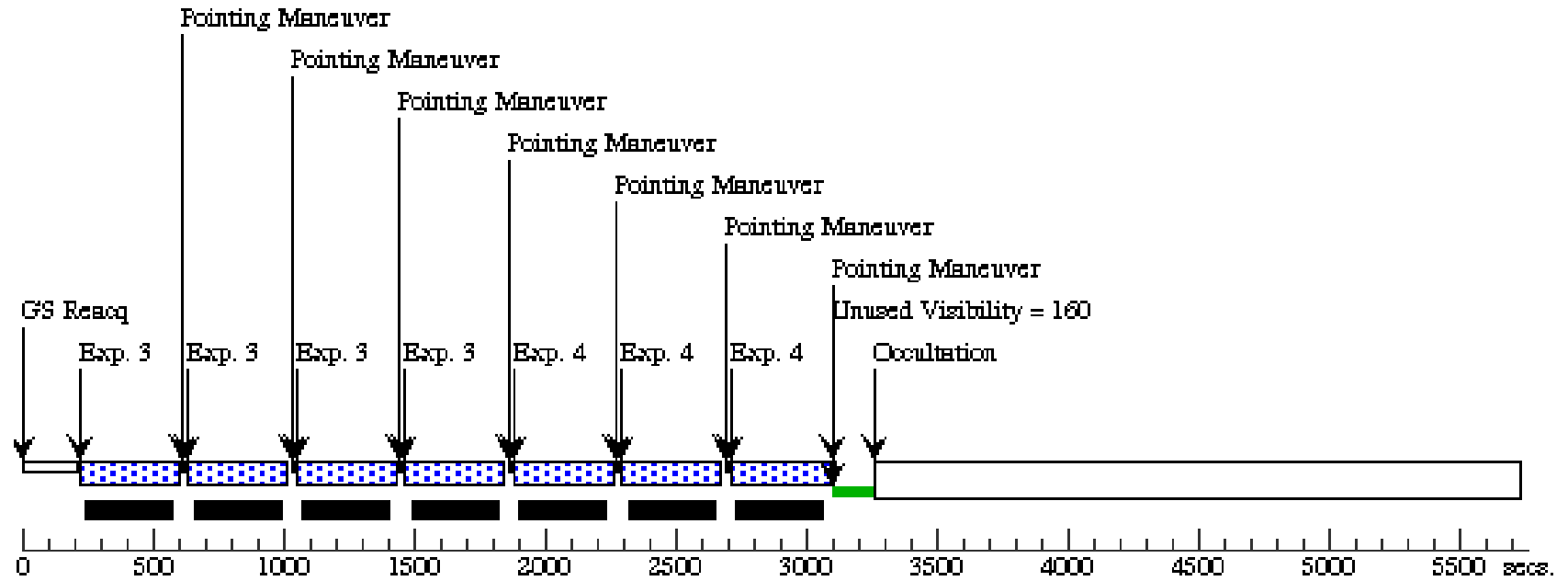
Server Version: 20120604



Orbit Structure

Orbit 2

Server Version: 20120604



Orbit 3

Server Version: 20120604

