



12479 - Low-z Analogs of High Redshift Lyman Alpha Emitters

Cycle: 19, 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) GNUVGR1	WFC3/UVIS	1	17-Jan-2012 21:04:18.0	yes
02	(2) GNUVGR2	WFC3/UVIS	1	17-Jan-2012 21:04:22.0	yes
03	(3) GNUVGR3	WFC3/UVIS	1	17-Jan-2012 21:04:26.0	yes
04	(4) GNUVGR4	WFC3/UVIS	1	17-Jan-2012 21:04:29.0	yes
05	(5) GNUVGR5	WFC3/UVIS	1	17-Jan-2012 21:04:33.0	yes
06	(6) GNUVGR6	WFC3/UVIS	1	17-Jan-2012 21:04:36.0	yes
07	(7) GNUVGR7	WFC3/UVIS	1	17-Jan-2012 21:04:39.0	yes
08	(8) GNUVGR8	WFC3/UVIS	1	17-Jan-2012 21:04:42.0	yes
09	(9) GNUVGR9	WFC3/UVIS	1	17-Jan-2012 21:04:45.0	yes
10	(10) GNUVGR10	WFC3/UVIS	1	17-Jan-2012 21:04:49.0	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) GNUMVGR11	WFC3/UVIS	1	17-Jan-2012 21:04:52.0	yes
12	(12) GNUMVGR12	WFC3/UVIS	1	17-Jan-2012 21:04:55.0	yes
13	(13) GNUMVGR13	WFC3/UVIS	1	17-Jan-2012 21:04:58.0	yes
14	(14) GNUMVGR14	WFC3/UVIS	1	17-Jan-2012 21:05:03.0	yes
15	(15) GNUMVGR15	WFC3/UVIS	1	17-Jan-2012 21:05:07.0	yes
16	(16) GNUMVGR16	WFC3/UVIS	1	17-Jan-2012 21:05:10.0	yes
17	(17) GNUMVGR17	WFC3/UVIS	1	17-Jan-2012 21:05:13.0	yes
18	(18) GNUMVGR18	WFC3/UVIS	1	17-Jan-2012 21:05:16.0	yes
19	(19) GNUMVGR19	WFC3/UVIS	1	17-Jan-2012 21:05:19.0	yes
20	(20) GNUMVGR20	WFC3/UVIS	1	17-Jan-2012 21:05:22.0	yes
21	(21) GNUMVGR21	WFC3/UVIS	1	17-Jan-2012 21:05:25.0	yes
22	(22) GNUMVGR22	WFC3/UVIS	1	17-Jan-2012 21:05:28.0	yes
23	(23) GNUMVGR23	WFC3/UVIS	1	17-Jan-2012 21:05:31.0	yes
24	(24) GNUMVGR24	WFC3/UVIS	1	17-Jan-2012 21:05:36.0	yes

24 Total Orbits Used

ABSTRACT

Lyman-alpha emitting galaxies with luminosities comparable to those of the highest redshift galaxies are first seen at $z \sim 1$. Unlike higher redshift Lyman-alpha emitters, the Lyman-alpha emission from these galaxies is hardly modified by the intergalactic medium, which makes it possible to study the galaxies' intrinsic properties. We propose to develop a sample of 100-200 such galaxies in the GOODS-N field lying in the redshift range $z = 0.7 - 1.8$. This requires 24 1-orbit exposures with the G280L grism on the WFC3-UVIS. The sample will allow us to construct Lyman-alpha luminosity functions in this poorly studied redshift range and to determine how the Lyman-alpha

emitters are drawn from the general galaxy population at these redshifts.

We will determine how the Lyman-alpha lines correlate with Balmer line fluxes, star formation rates, extinctions, and metallicities using the wealth of imaging and spectroscopic information available for the intensively studied GOODS-N region.

These templates will be valuable for studying what controls the escape of Lyman-alpha photons in the more luminous star forming galaxies, in interpreting the highest redshift Lyman-alpha emitters, and in understanding how their properties are modified by the intergalactic gas.

OBSERVING DESCRIPTION

We propose to obtain spectral images at 24 positions covering the GOODS-N field with the G280 grism on WFC3 to find a substantial sample of $z=0.7-1.8$ Ly alpha emitters over the wavelength range from 2100 to 3400Å.

WFC3+G280 provides the unique combination of wavelength coverage, sensitivity, and field needed for this project.

We have chosen the field positions to cover the deepest portions of the GOODS-N region. We have slightly overlapped the fields to allow for edge effects. The 24 pointings will cover a total area of approximately 140 square arcminutes. They are at a PA of 45 degs E of N to match the orientation of the GOODS-N field.

At each position we will obtain a short 120 s imaging exposure with the F2000LP filter prior to the spectroscopic exposures to calibrate the spectroscopic wavelengths by establishing the positions and shapes of the galaxies relative to the grism images.

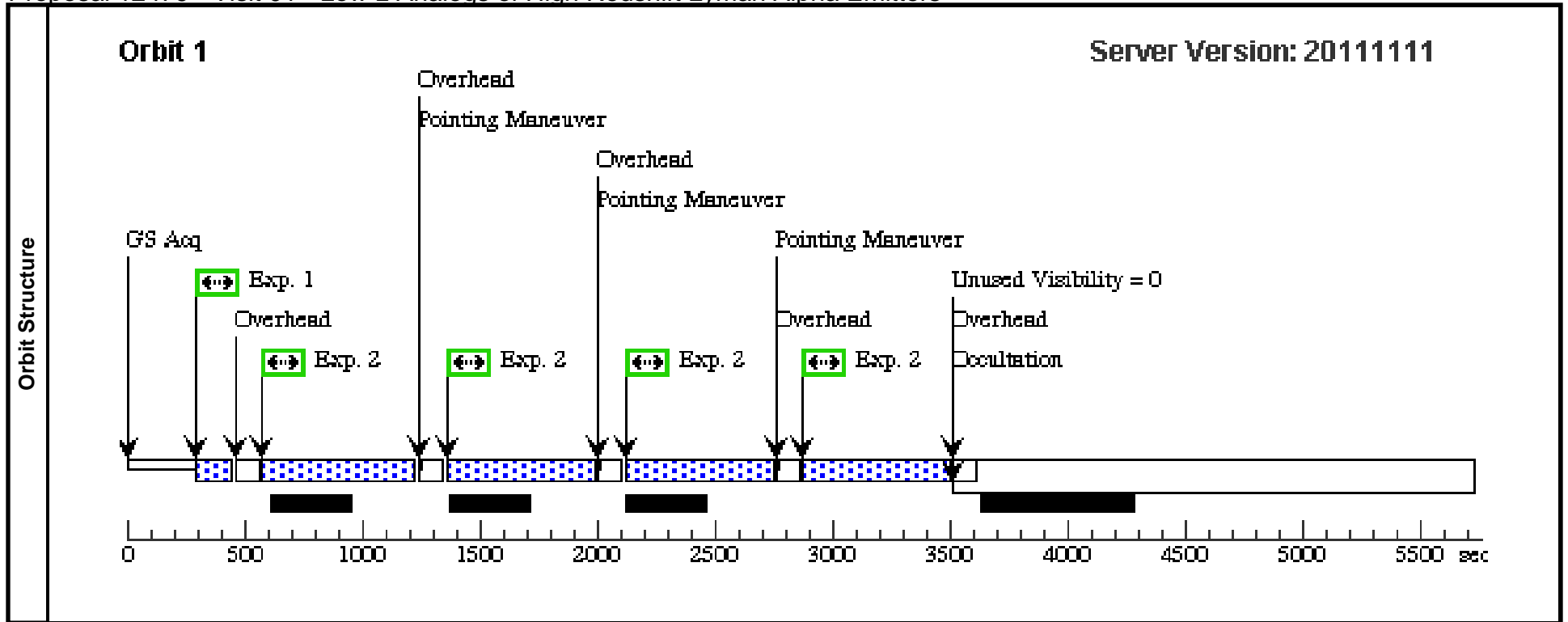
We will then obtain an approximately 2400s grism image broken into 5 475s dithered sub-exposures to remove

Proposal 12479 (STScI Edit Number: 4, Created: Tuesday, January 17, 2012 9:05:40 PM EST) - Overview
artifacts, as well as cosmic rays.

Proposal 12479 - Visit 01 - Low-z Analogs of High Redshift Lyman Alpha Emitters

Wed Jan 18 02:05:40 GMT 2012

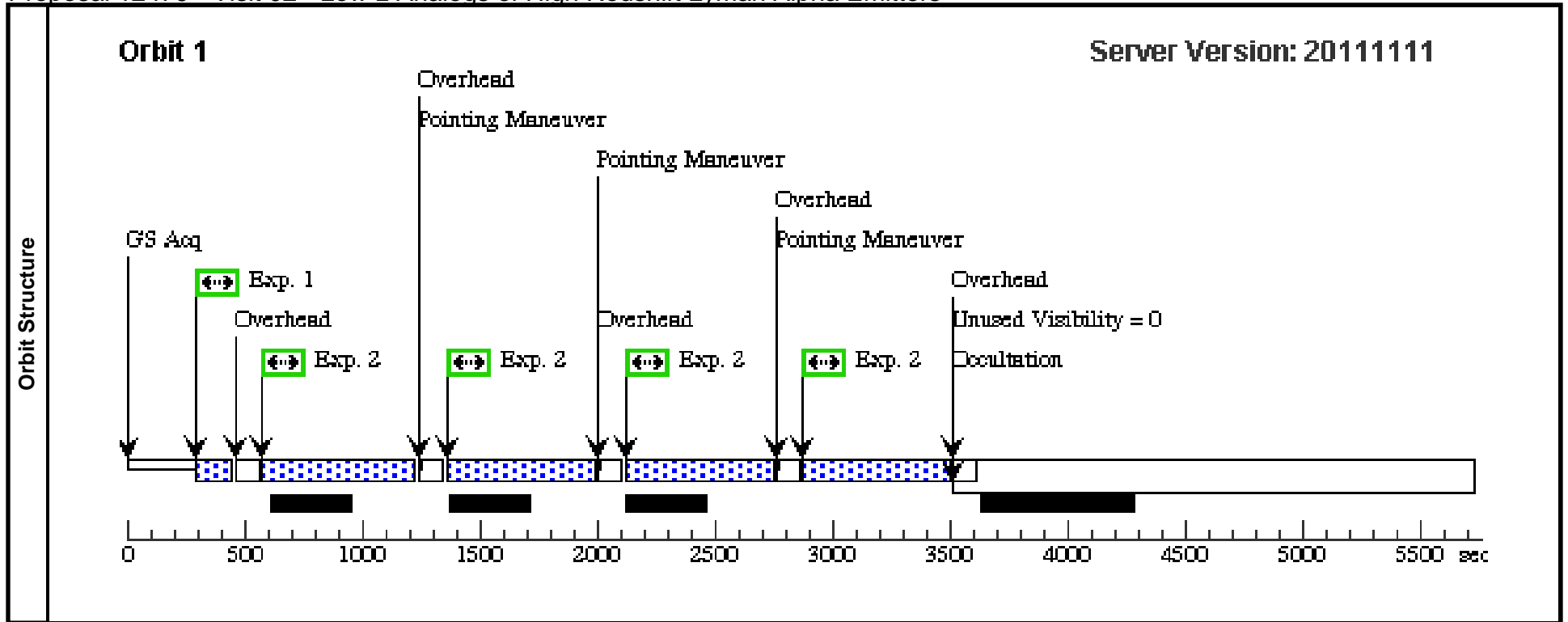
Visit	Proposal 12479, Visit 01, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	GNUVGR1	RA: 12 36 36.4400 (189.1518333d) Dec: +62 07 12.30 (62.12008d) Equinox: J2000		V=22.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) GNUVGR1	WFC3/UVIS, ACCUM, UVIS	F200LP		GS ACQ SCENARI O BASE1B3		120 Secs	
									[==>]	[1]
2		(1) GNUVGR1	WFC3/UVIS, ACCUM, UVIS	G280				Pattern 1, Exps 2-2 i n Visit 01 (1)	628 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12479 - Visit 02 - Low-z Analogs of High Redshift Lyman Alpha Emitters

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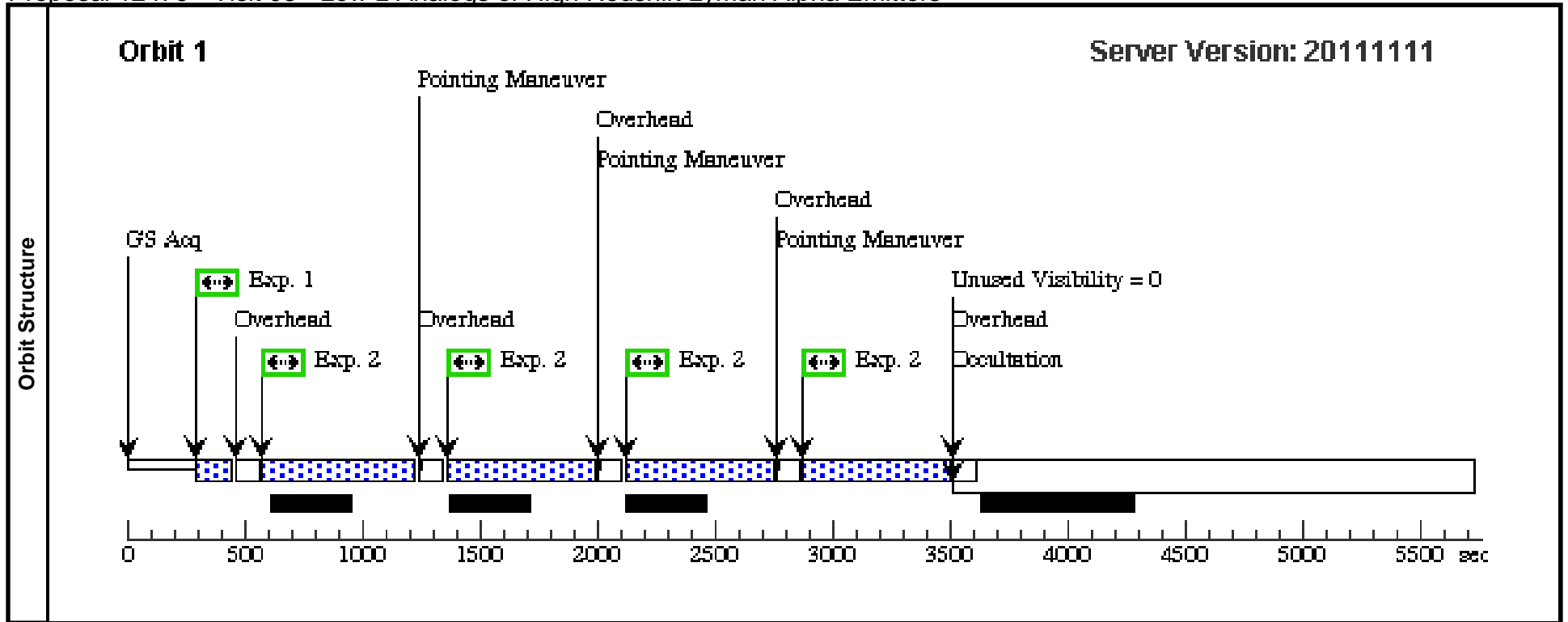
Visit	Proposal 12479, Visit 02, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	GNUVGR2	RA: 12 36 51.5700 (189.2148750d) Dec: +62 08 58.40 (62.14956d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(2) GNUVGR2		WFC3/UVIS, ACCUM, UVIS	F200LP		GS ACQ SCENARI O BASE1B3		120 Secs	
									[==>]	[1]
2	(2) GNUVGR2		WFC3/UVIS, ACCUM, UVIS	G280				Pattern 1, Exps 2-2 i n Visit 02 (1)	628 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12479 - Visit 03 - Low-z Analogs of High Redshift Lyman Alpha Emitters

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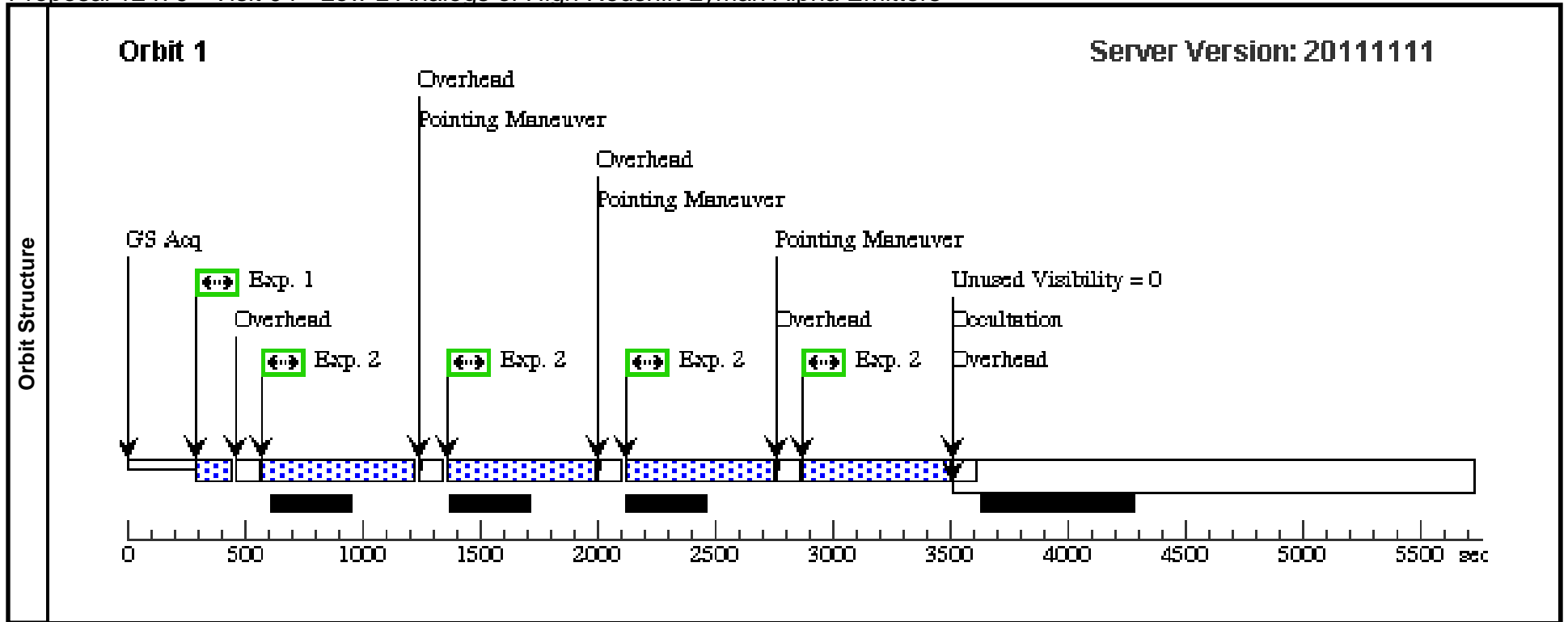
Visit	Proposal 12479, Visit 03, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	GNUVGR3	RA: 12 37 6.7200 (189.2780000d) Dec: +62 10 44.40 (62.179000d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) GNUVGR3	WFC3/UVIS, ACCUM, UVIS	F200LP		GS ACQ SCENARI O BASE1B3		120 Secs	
									[==>]	[1]
2		(3) GNUVGR3	WFC3/UVIS, ACCUM, UVIS	G280				Pattern 1, Exps 2-2 i n Visit 03 (1)	628 Secs	
									[==>(Pattern 1)]	
									[==>(Pattern 2)]	
									[==>(Pattern 3)]	
									[==>(Pattern 4)]	[1]



Proposal 12479 - Visit 04 - Low-z Analogs of High Redshift Lyman Alpha Emitters

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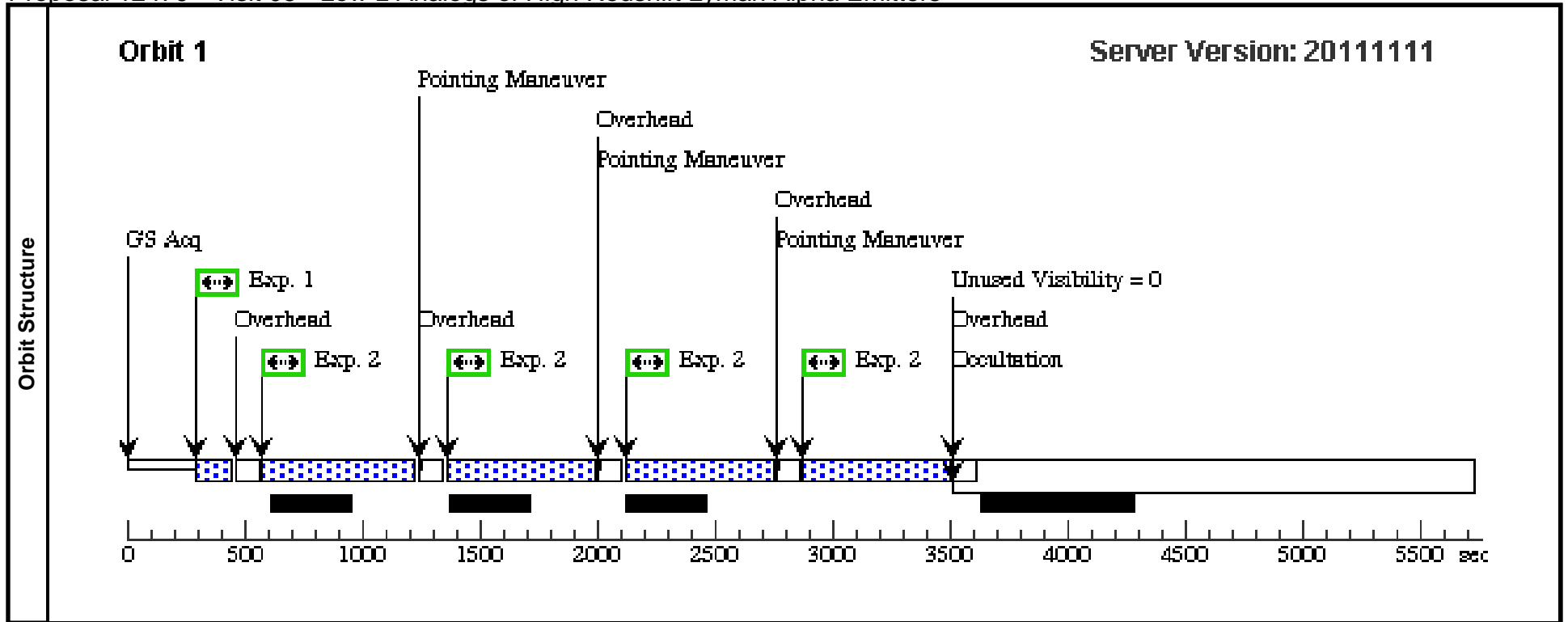
Visit	Proposal 12479, Visit 04, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	GNUVGR4	RA: 12 37 21.9000 (189.3412500d) Dec: +62 12 30.30 (62.20842d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(4) GNUVGR4		WFC3/UVIS, ACCUM, UVIS	F200LP		GS ACQ SCENARI O BASE1B3		120 Secs [==>]	[1]
	2	(4) GNUVGR4		WFC3/UVIS, ACCUM, UVIS	G280			Pattern 1, Exps 2-2 i n Visit 04 (1)	628 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12479 - Visit 05 - Low-z Analogs of High Redshift Lyman Alpha Emitters

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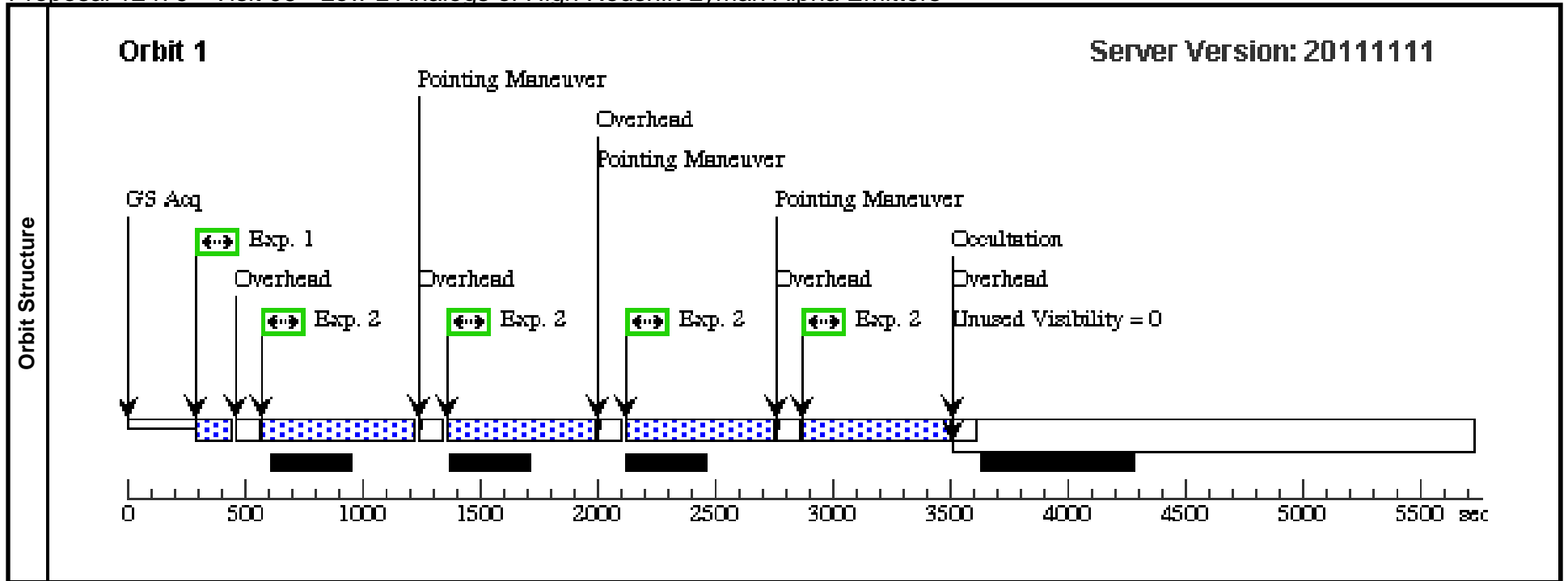
Visit	Proposal 12479, Visit 05, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	GNUVGR5	RA: 12 37 37.1200 (189.4046667d) Dec: +62 14 16.10 (62.23781d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(5) GNUVGR5	WFC3/UVIS, ACCUM, UVIS	F200LP				120 Secs	
									[==>]	[1]
2		(5) GNUVGR5	WFC3/UVIS, ACCUM, UVIS	G280				Pattern 1, Exps 2-2 in Visit 05 (1)	628 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12479 - Visit 06 - Low-z Analogs of High Redshift Lyman Alpha Emitters

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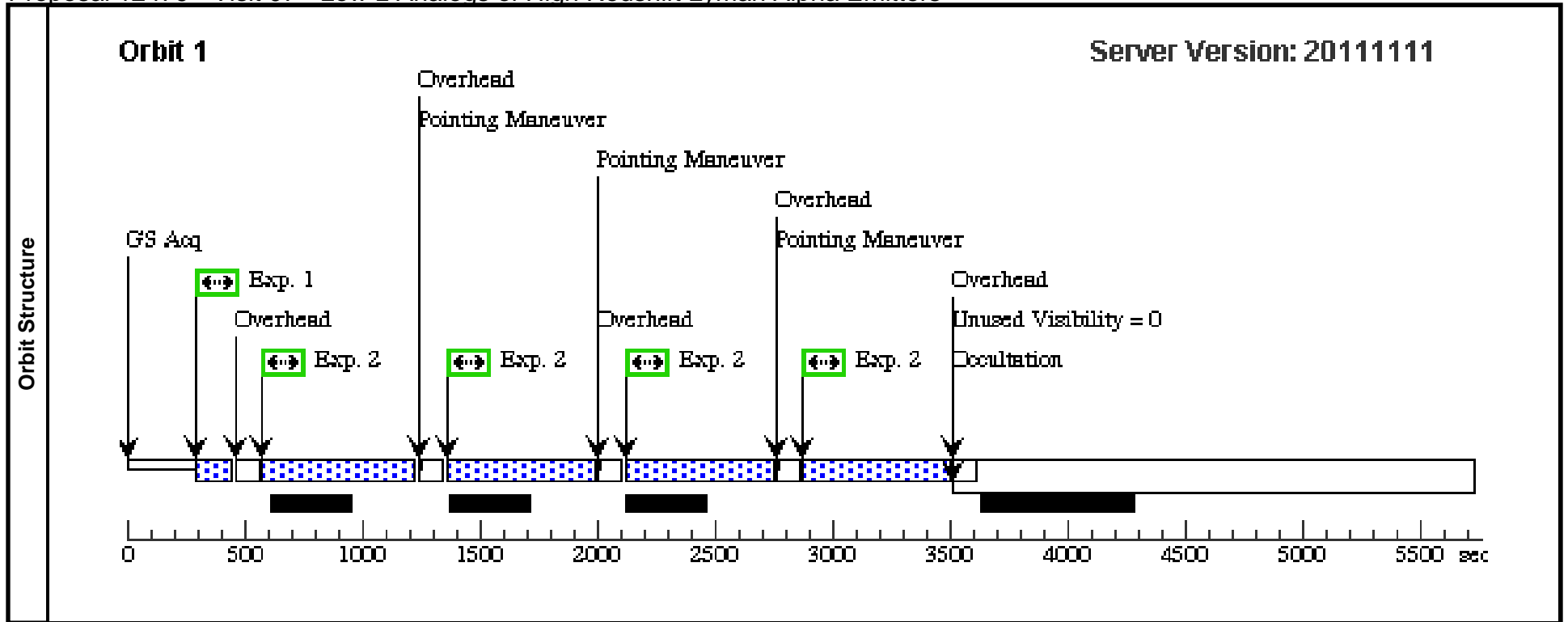
Visit	Proposal 12479, Visit 06, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	GNUVGR6	RA: 12 37 52.3600 (189.4681667d) Dec: +62 16 1.80 (62.26717d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(6) GNUVGR6		WFC3/UVIS, ACCUM, UVIS	F200LP				120 Secs [==>]	[1]
2	(6) GNUVGR6		WFC3/UVIS, ACCUM, UVIS	G280				Pattern 1, Exps 2-2 i n Visit 06 (1) 628 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	



Proposal 12479 - Visit 07 - Low-z Analogs of High Redshift Lyman Alpha Emitters

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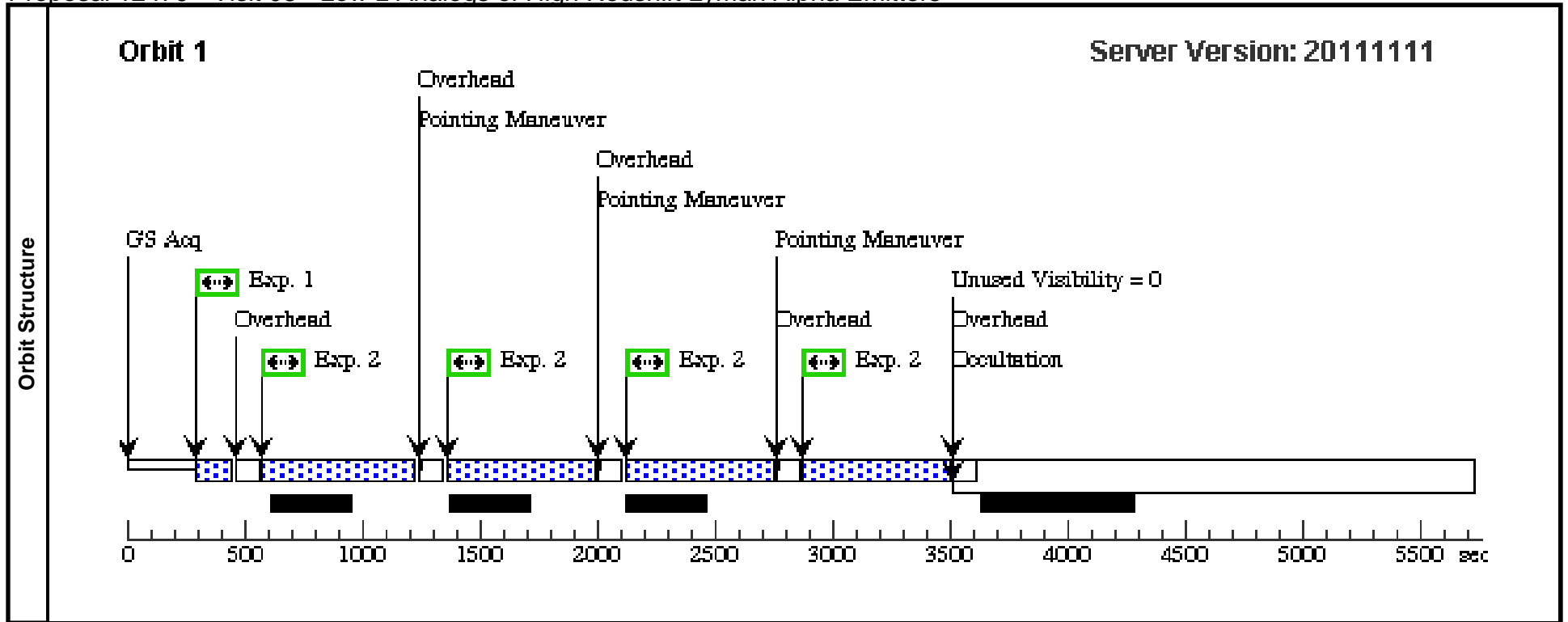
Visit	Proposal 12479, Visit 07, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	GNUVGR7	RA: 12 36 22.3100 (189.0929583d) Dec: +62 08 51.20 (62.14756d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(7) GNUVGR7	WFC3/UVIS, ACCUM, UVIS	F200LP		GS ACQ SCENARI O BASE1B3		120 Secs [==>]	[1]
2		(7) GNUVGR7	WFC3/UVIS, ACCUM, UVIS	G280				Pattern 1, Exps 2-2 i n Visit 07 (1)	628 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12479 - Visit 08 - Low-z Analogs of High Redshift Lyman Alpha Emitters

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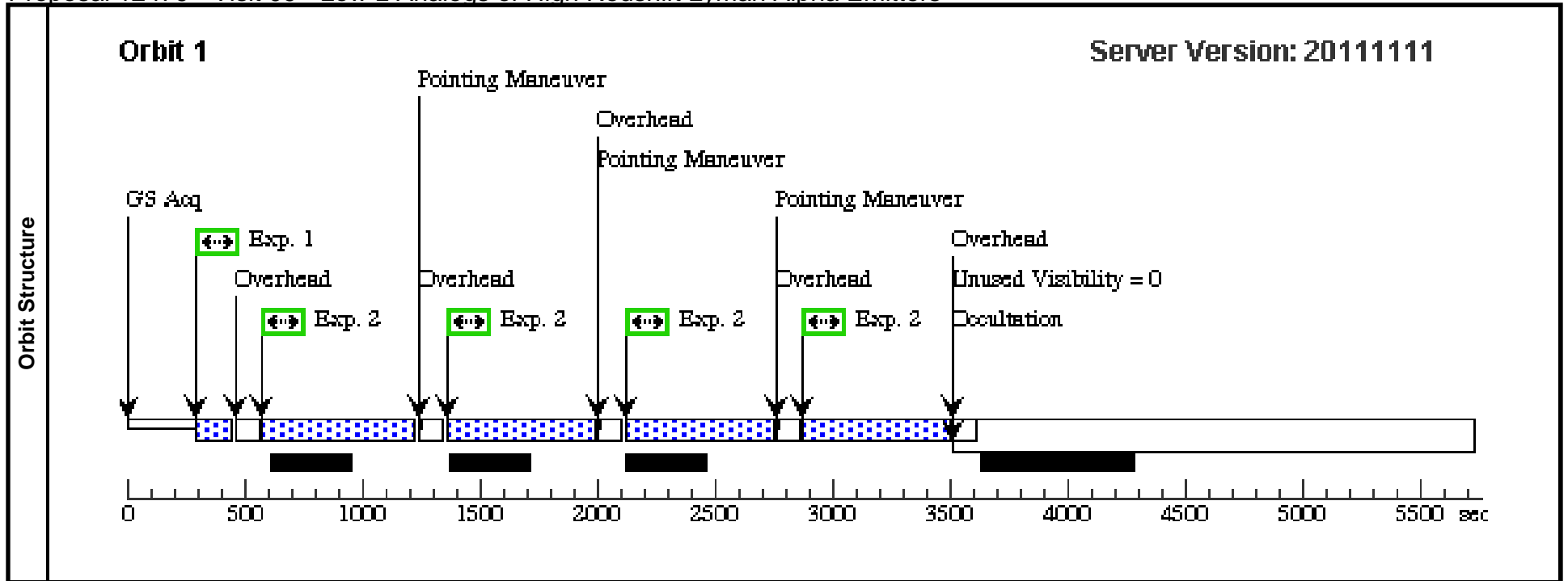
Visit	Proposal 12479, Visit 08, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	GNUVGR8	RA: 12 36 37.4300 (189.1559583d) Dec: +62 10 37.40 (62.17706d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(8) GNUVGR8		WFC3/UVIS, ACCUM, UVIS	F200LP		GS ACQ SCENARI O BASE1B3		120 Secs [==>]	[1]
	2	(8) GNUVGR8		WFC3/UVIS, ACCUM, UVIS	G280			Pattern 1, Exps 2-2 i n Visit 08 (1)	628 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12479 - Visit 09 - Low-z Analogs of High Redshift Lyman Alpha Emitters

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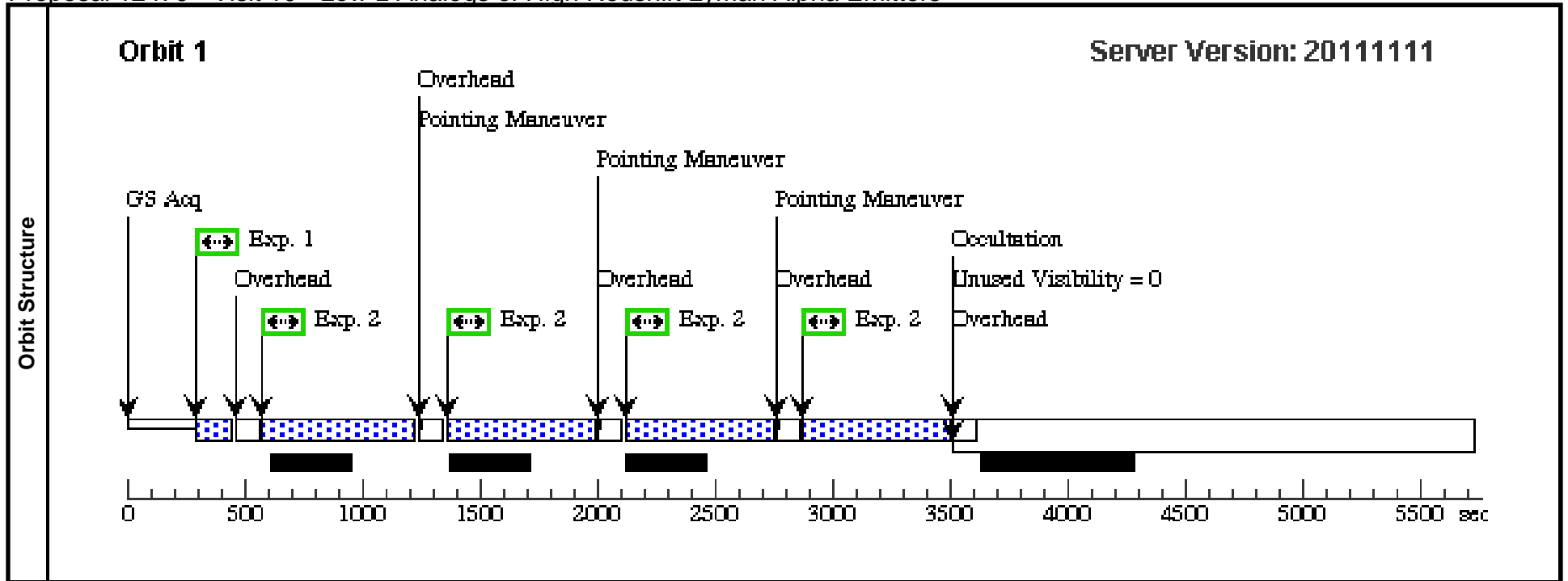
Visit	Proposal 12479, Visit 09, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	GNUVGR9	RA: 12 36 52.5800 (189.2190833d) Dec: +62 12 23.50 (62.20653d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(9) GNUVGR9		WFC3/UVIS, ACCUM, UVIS	F200LP		GS ACQ SCENARI O BASE1B3		120 Secs	
									[==>]	[1]
2	(9) GNUVGR9		WFC3/UVIS, ACCUM, UVIS	G280				Pattern 1, Exps 2-2 i n Visit 09 (1)	628 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12479 - Visit 10 - Low-z Analogs of High Redshift Lyman Alpha Emitters

Wed Jan 18 02:05:44 GMT 2012

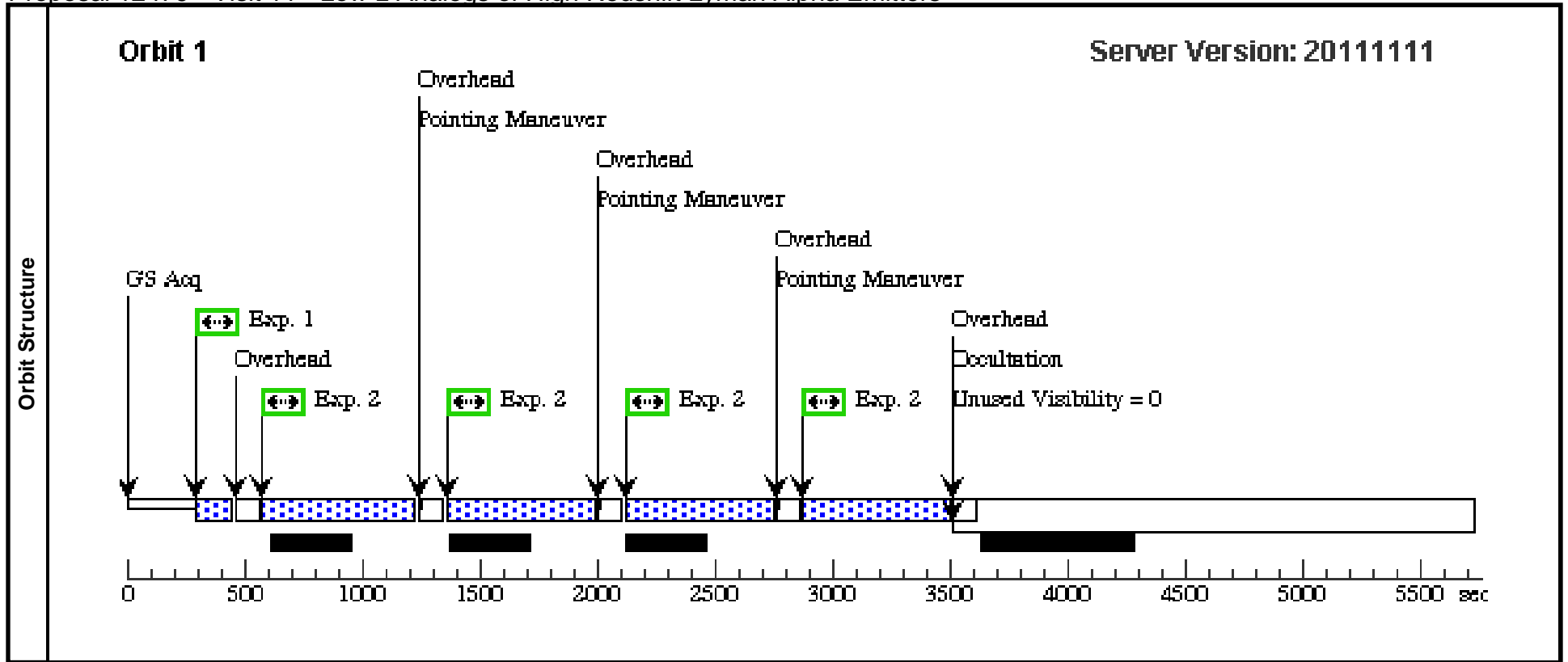
Visit	Proposal 12479, Visit 10, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D; ORIENT 345D TO 15 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER 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		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	GNUVGR10	RA: 12 37 7.7700 (189.2823750d) Dec: +62 14 9.40 (62.23594d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(10) GNUVGR10	WFC3/UVIS, ACCUM, UVIS	F200LP			GS ACQ SCENARI O BASE1B3		120 Secs [==>]	[1]
2	(10) GNUVGR10	WFC3/UVIS, ACCUM, UVIS	G280					Pattern 1, Exps 2-2 i n Visit 10 (1)	628 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12479 - Visit 11 - Low-z Analogs of High Redshift Lyman Alpha Emitters

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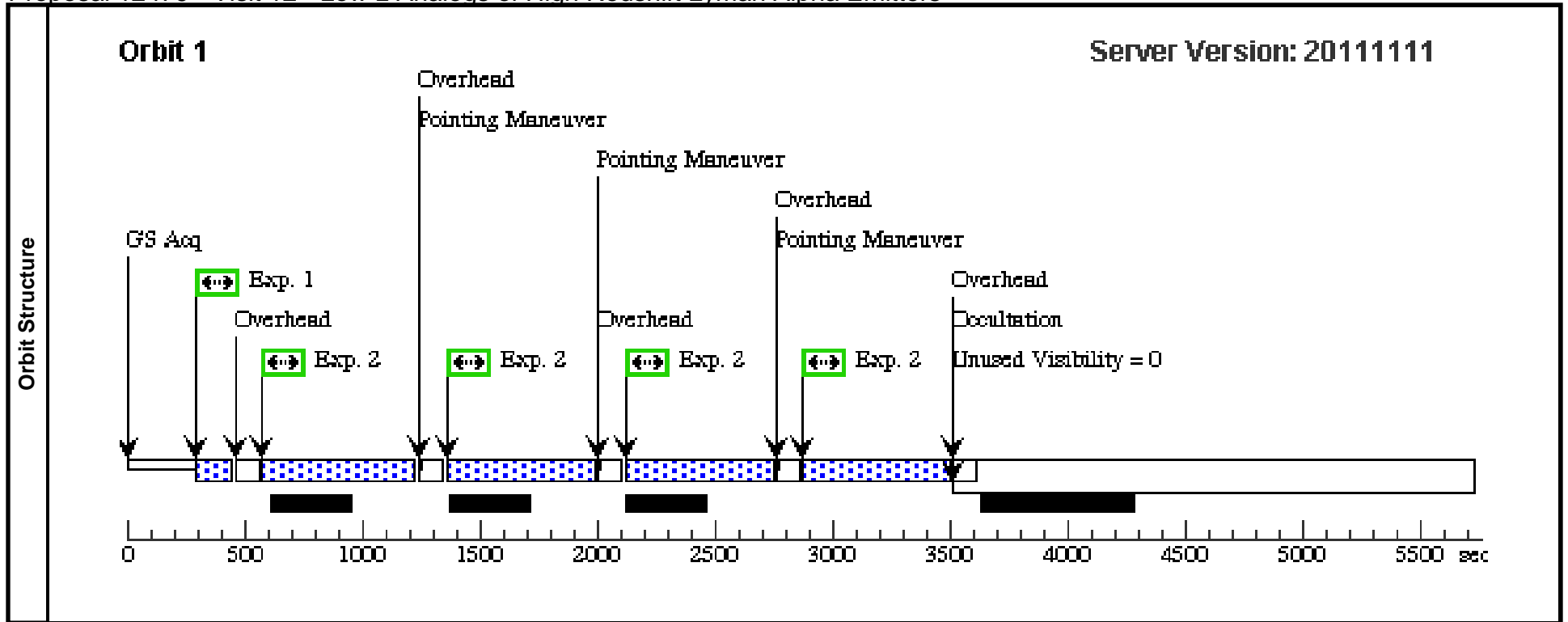
Visit	Proposal 12479, Visit 11, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	GNUVGR11	RA: 12 37 22.9800 (189.3457500d) Dec: +62 15 55.30 (62.26536d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(11) GNUVGR11	WFC3/UVIS, ACCUM, UVIS	F200LP				120 Secs	
									[==>]	[1]
	2		(11) GNUVGR11	WFC3/UVIS, ACCUM, UVIS	G280				Pattern 1, Exps 2-2 i n Visit 11 (1)	628 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]



Proposal 12479 - Visit 12 - Low-z Analogs of High Redshift Lyman Alpha Emitters

Wed Jan 18 02:05:44 GMT 2012

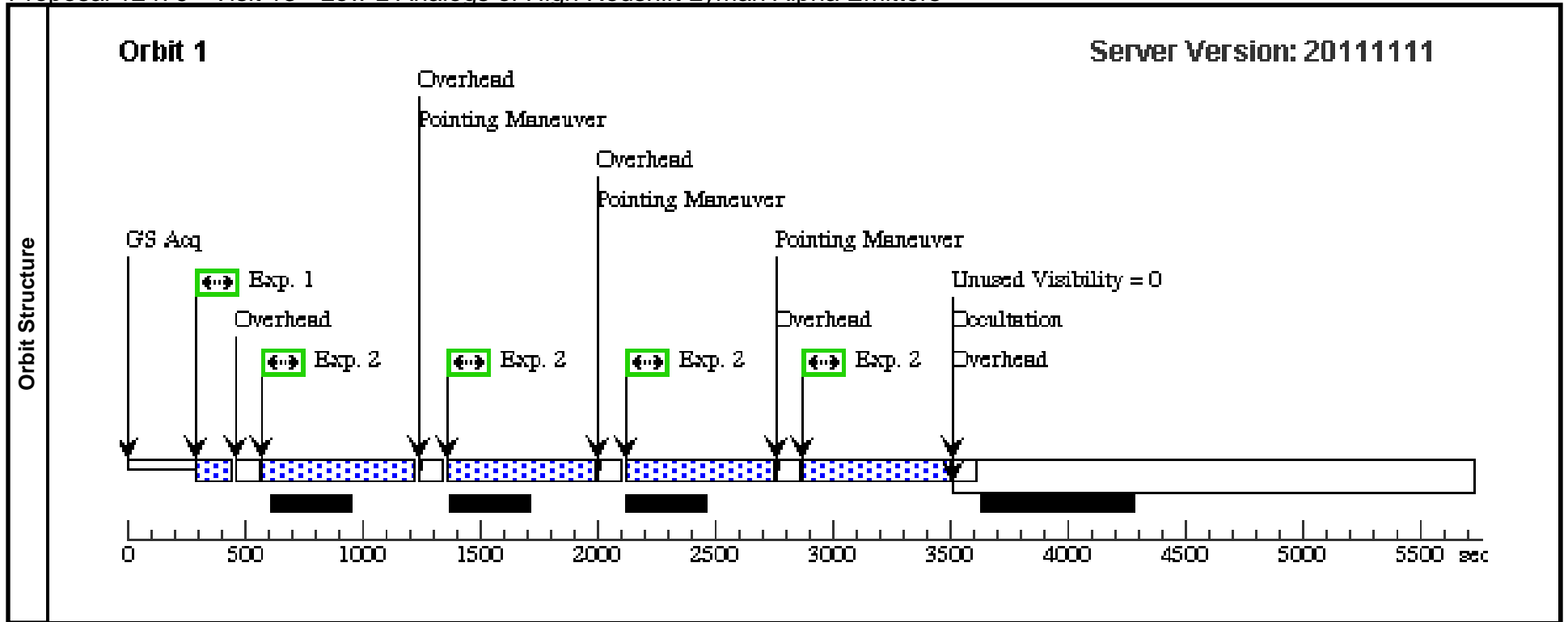
Visit	Proposal 12479, Visit 12, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D; ORIENT 345D TO 15 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER 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		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	GNUVGR12	RA: 12 37 38.2200 (189.4092500d) Dec: +62 17 41.10 (62.29475d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(12) GNUVGR12	WFC3/UVIS, ACCUM, UVIS	F200LP		GS ACQ SCENARIO BASE1B3		120 Secs [==>]	[1]
2		(12) GNUVGR12	WFC3/UVIS, ACCUM, UVIS	G280				Pattern 1, Exps 2-2 in Visit 12 (1) 628 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	



Proposal 12479 - Visit 13 - Low-z Analogs of High Redshift Lyman Alpha Emitters

Wed Jan 18 02:05:45 GMT 2012

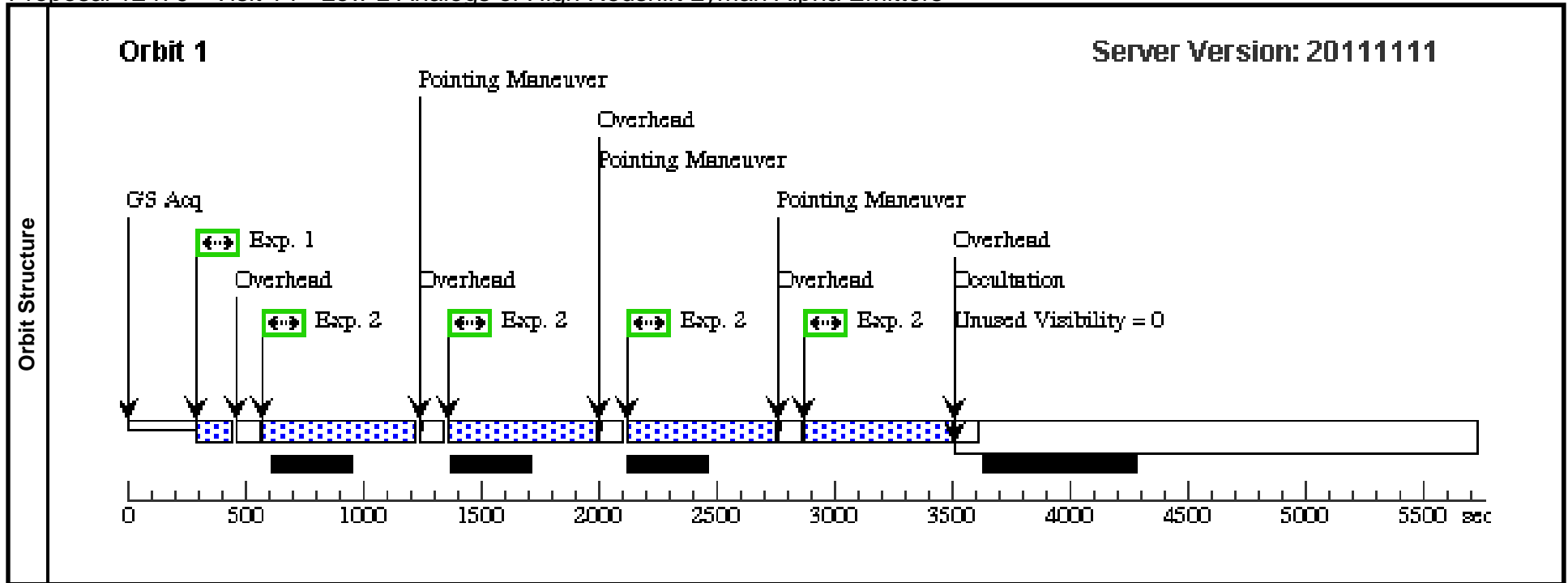
Visit	Proposal 12479, Visit 13, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(13)	GNUVGR13	RA: 12 36 8.1400 (189.0339167d) Dec: +62 10 29.90 (62.17497d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(13) GNUVGR13	WFC3/UVIS, ACCUM, UVIS	F200LP		GS ACQ SCENARIO BASE1B3		120 Secs [==>]	[1]
2		(13) GNUVGR13	WFC3/UVIS, ACCUM, UVIS	G280				Pattern 1, Exps 2-2 in Visit 13 (1) 628 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	



Proposal 12479 - Visit 14 - Low-z Analogs of High Redshift Lyman Alpha Emitters

Wed Jan 18 02:05:45 GMT 2012

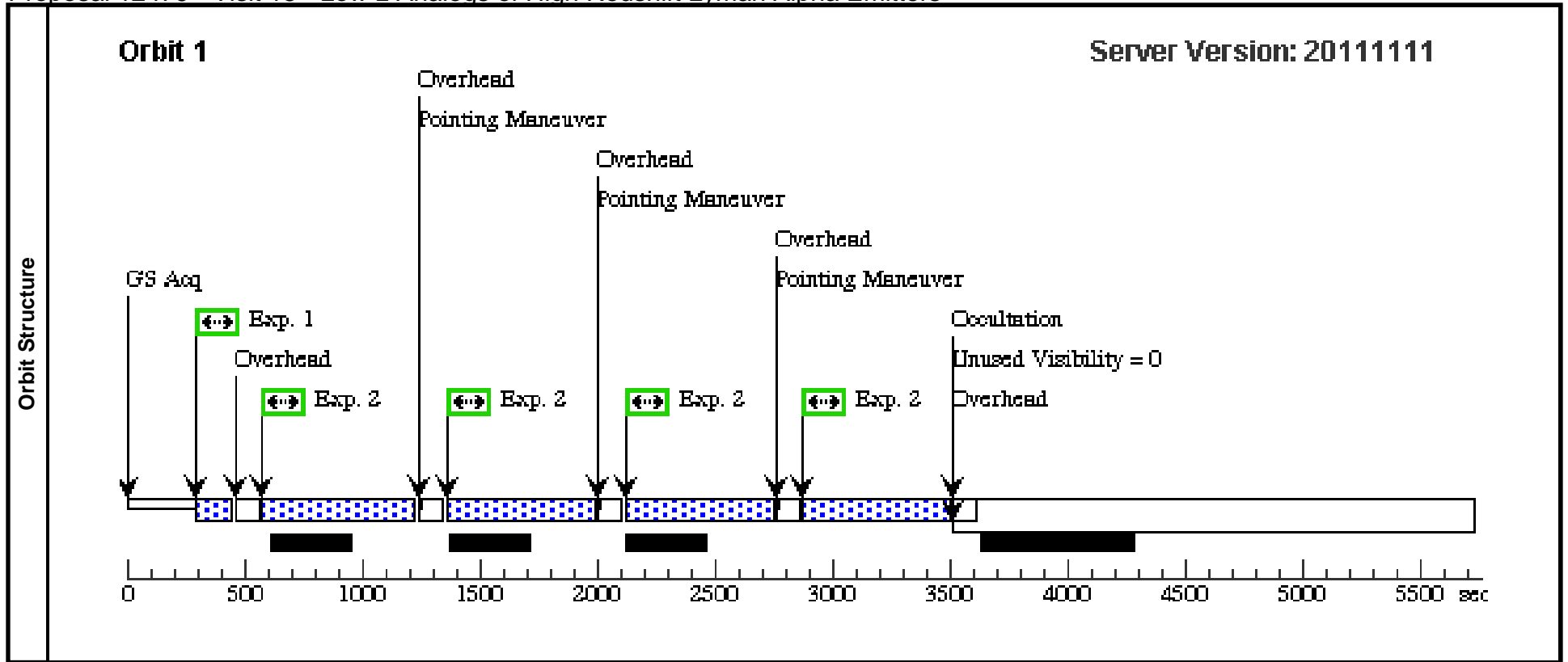
Visit	Proposal 12479, Visit 14, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(14)	GNUVGR14	RA: 12 36 23.2700 (189.0969583d) Dec: +62 12 16.00 (62.20444d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(14) GNUVGR14	WFC3/UVIS, ACCUM, UVIS	F200LP		GS ACQ SCENARI O BASE1B3		120 Secs [==>]	[1]
2		(14) GNUVGR14	WFC3/UVIS, ACCUM, UVIS	G280				Pattern 1, Exps 2-2 i n Visit 14 (1)	628 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12479 - Visit 15 - Low-z Analogs of High Redshift Lyman Alpha Emitters

Wed Jan 18 02:05:45 GMT 2012

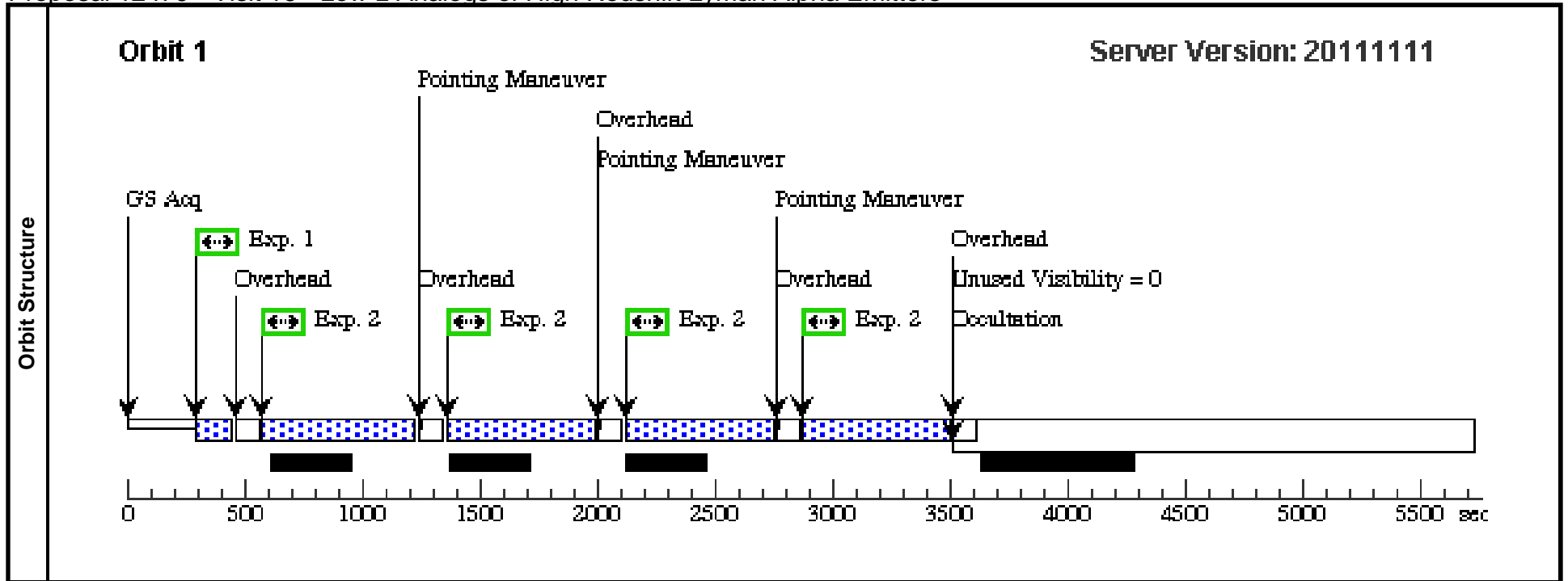
Visit	Proposal 12479, Visit 15, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(15)	GNUVGR15	RA: 12 36 38.4200 (189.1600833d) Dec: +62 14 2.40 (62.23400d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(15) GNUVGR15		WFC3/UVIS, ACCUM, UVIS	F200LP		GS ACQ SCENARI O BASE1B3		120 Secs	
									[==>]	[1]
	2	(15) GNUVGR15		WFC3/UVIS, ACCUM, UVIS	G280			Pattern 1, Exps 2-2 i n Visit 15 (1)	628 Secs	
								[==>(Pattern 1)]		
								[==>(Pattern 2)]		
								[==>(Pattern 3)]		
								[==>(Pattern 4)]		
										[1]



Proposal 12479 - Visit 16 - Low-z Analogs of High Redshift Lyman Alpha Emitters

Wed Jan 18 02:05:45 GMT 2012

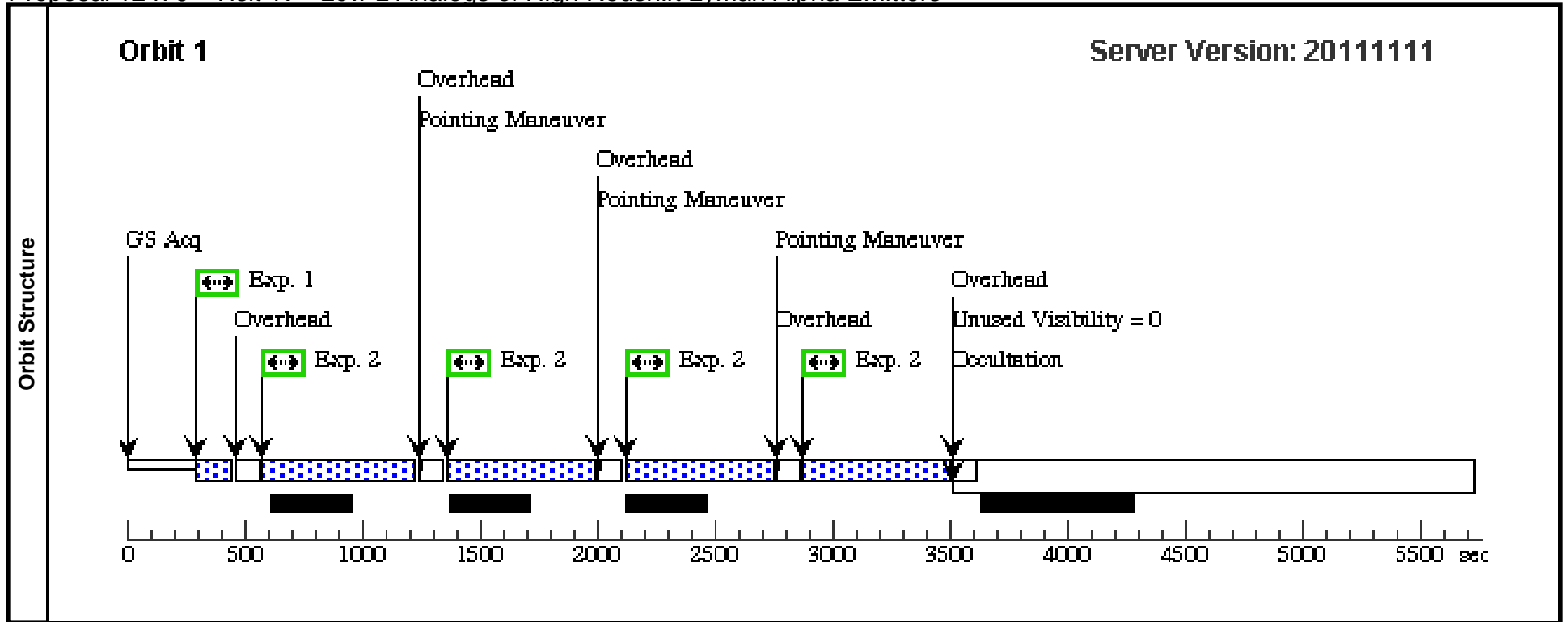
Visit	Proposal 12479, Visit 16, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(16)	GNUVGR16	RA: 12 36 53.6000 (189.2233333d) Dec: +62 15 48.50 (62.26347d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(16) GNUVGR16	WFC3/UVIS, ACCUM, UVIS	F200LP		GS ACQ SCENARI O BASE1B3		120 Secs	
									[==>]	[1]
	2		(16) GNUVGR16	WFC3/UVIS, ACCUM, UVIS	G280				628 Secs Pattern 1, Exps 2-2 i n Visit 16 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]



Proposal 12479 - Visit 17 - Low-z Analogs of High Redshift Lyman Alpha Emitters

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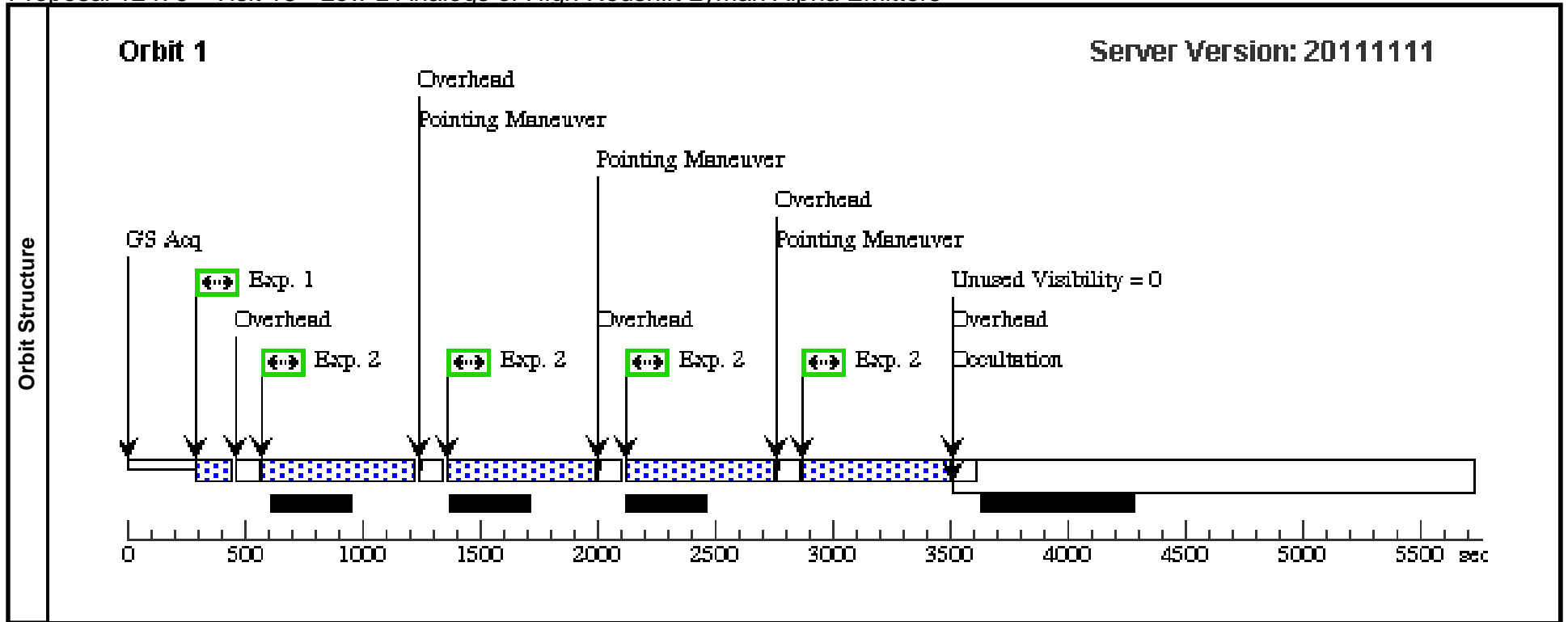
Visit	Proposal 12479, Visit 17, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(17)	GNUVGR17	RA: 12 37 8.8100 (189.2867083d) Dec: +62 17 34.50 (62.29292d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(17) GNUVGR17		WFC3/UVIS, ACCUM, UVIS	F200LP		GS ACQ SCENARI O BASE1B3		120 Secs	
									[==>]	[1]
	2	(17) GNUVGR17		WFC3/UVIS, ACCUM, UVIS	G280			Pattern 1, Exps 2-2 i n Visit 17 (1)	628 Secs	
								[==>(Pattern 1)]		
								[==>(Pattern 2)]		
								[==>(Pattern 3)]		
								[==>(Pattern 4)]		
									[1]	



Proposal 12479 - Visit 18 - Low-z Analogs of High Redshift Lyman Alpha Emitters

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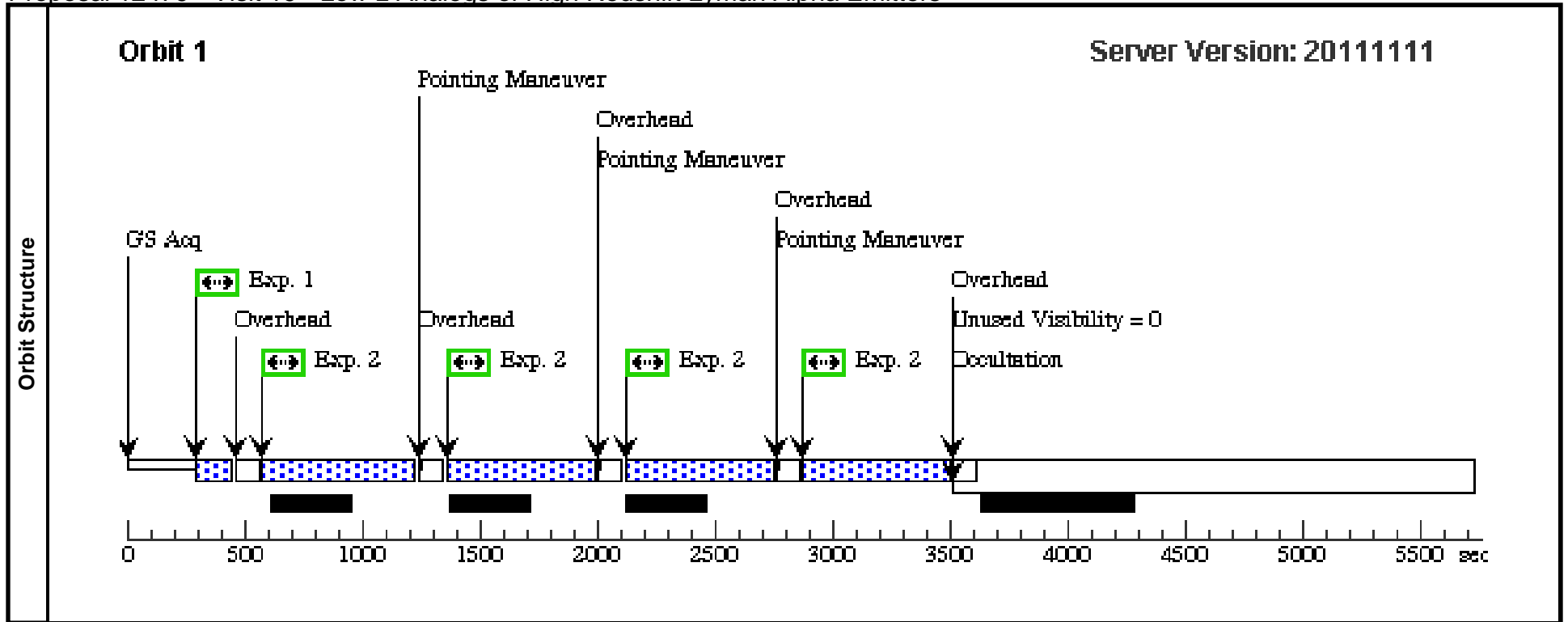
Visit	Proposal 12479, Visit 18, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(18)	GNUVGR18	RA: 12 37 24.0600 (189.3502500d) Dec: +62 19 20.40 (62.32233d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(18) GNUVGR18	GNUVGR18	WFC3/UVIS, ACCUM, UVIS	F200LP			GS ACQ SCENARI O BASE1B3		120 Secs [==>]
2	(18) GNUVGR18	GNUVGR18	GNUVGR18	WFC3/UVIS, ACCUM, UVIS	G280			Pattern 1, Exps 2-2 i n Visit 18 (1)	628 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12479 - Visit 19 - Low-z Analogs of High Redshift Lyman Alpha Emitters

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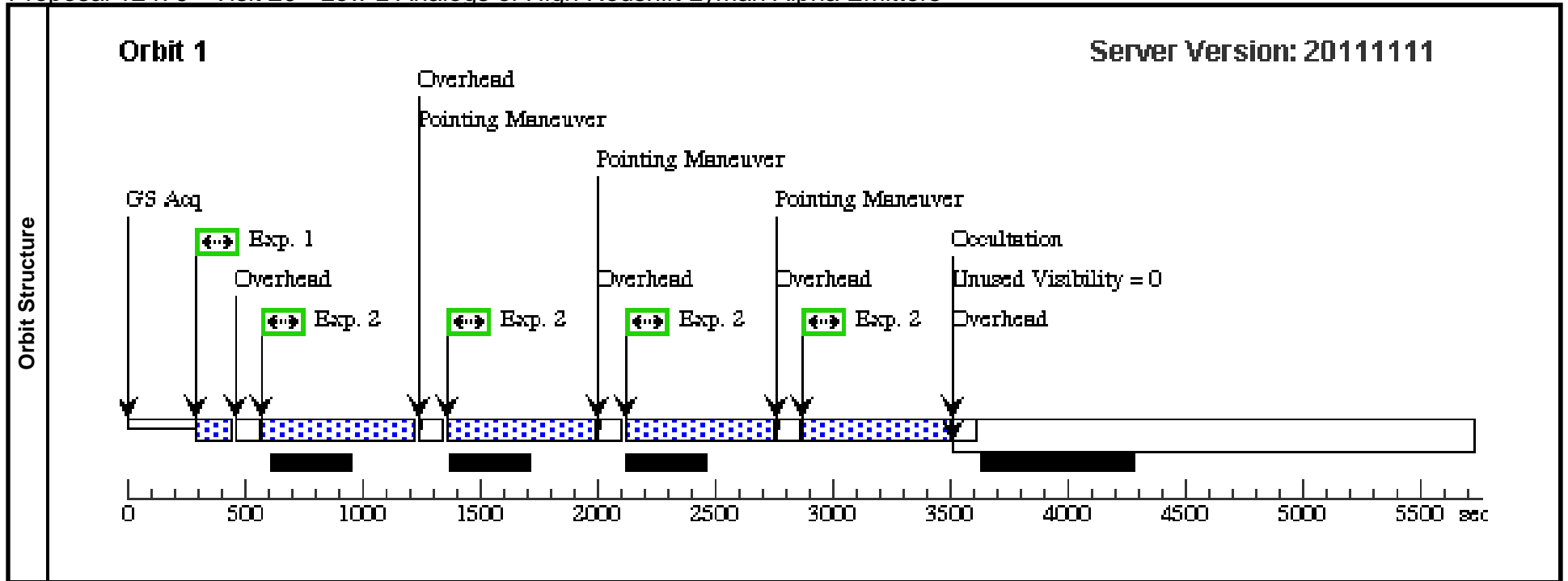
Visit	Proposal 12479, Visit 19, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(19)	GNUVGR19	RA: 12 35 53.9500 (188.9747917d) Dec: +62 12 8.60 (62.20239d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(19) GNUVGR19	WFC3/UVIS, ACCUM, UVIS	F200LP				120 Secs	
									[==>]	[1]
	2		(19) GNUVGR19	WFC3/UVIS, ACCUM, UVIS	G280			Pattern 1, Exps 2-2 in Visit 19 (1)	628 Secs	
									[==>(Pattern 1)]	
									[==>(Pattern 2)]	
									[==>(Pattern 3)]	
									[==>(Pattern 4)]	[1]



Proposal 12479 - Visit 20 - Low-z Analogs of High Redshift Lyman Alpha Emitters

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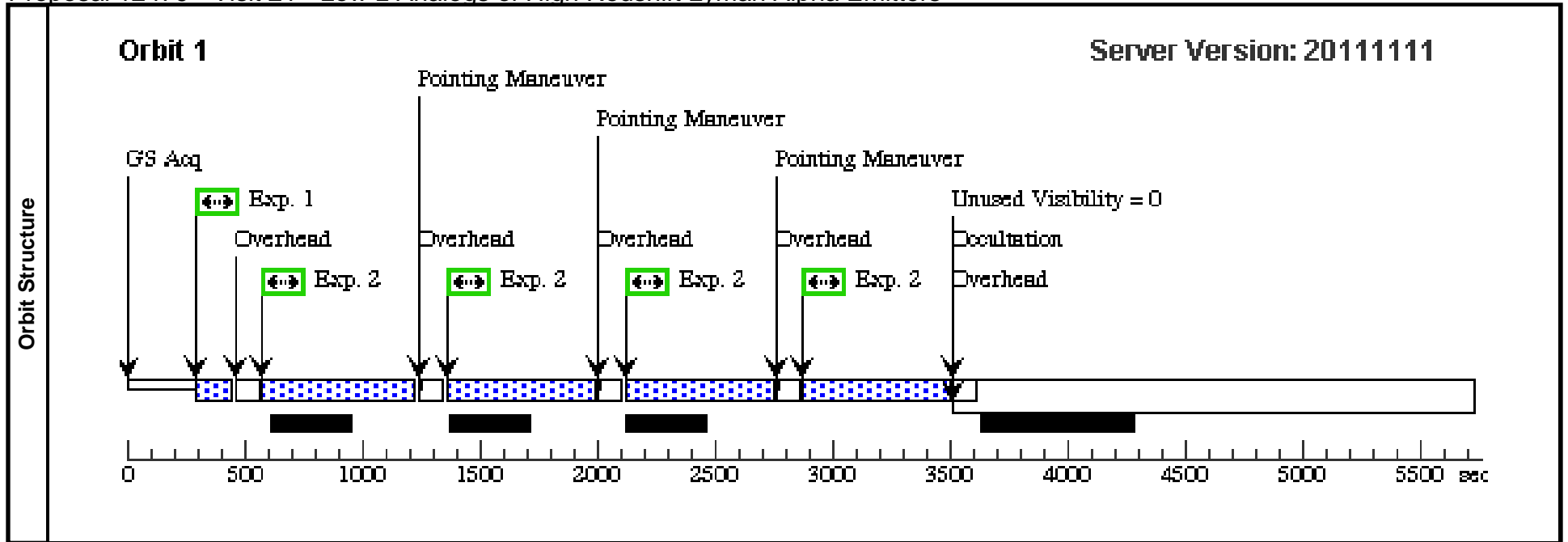
Visit	Proposal 12479, Visit 20, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(20)	GNUVGR20	RA: 12 36 9.0800 (189.0378333d) Dec: +62 13 55.00 (62.23194d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(20) GNUVGR20	WFC3/UVIS, ACCUM, UVIS	F200LP				120 Secs	
									[==>]	[1]
	2		(20) GNUVGR20	WFC3/UVIS, ACCUM, UVIS	G280				Pattern 1, Exps 2-2 in Visit 20 (1) 628 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12479 - Visit 21 - Low-z Analogs of High Redshift Lyman Alpha Emitters

Wed Jan 18 02:05:47 GMT 2012

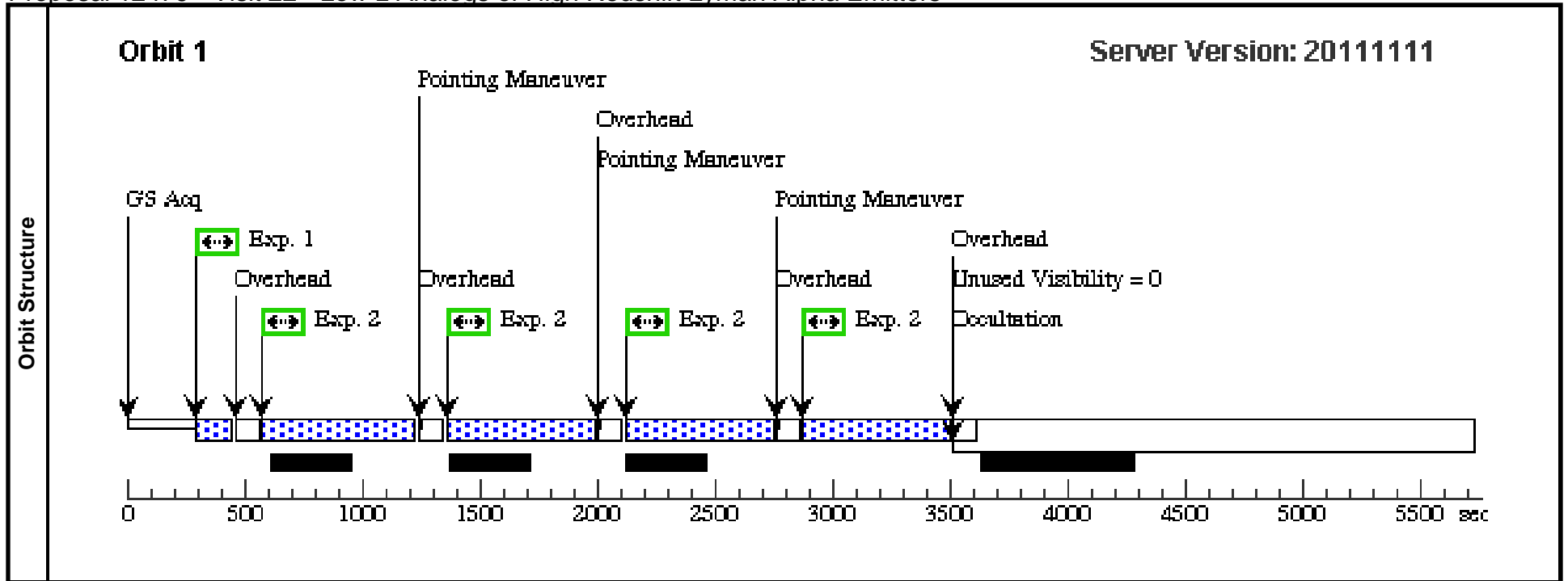
Visit	Proposal 12479, Visit 21, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D; ORIENT 345D TO 15 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER 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		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(21)	GNUVGR21	RA: 12 36 24.2300 (189.1009583d) Dec: +62 15 41.30 (62.26147d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(21) GNUVGR21	WFC3/UVIS, ACCUM, UVIS	F200LP		GS ACQ SCENARI O BASE1B3		120 Secs [==>]	[1]
	2		(21) GNUVGR21	WFC3/UVIS, ACCUM, UVIS	G280			Pattern 1, Exps 2-2 i n Visit 21 (1)	628 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12479 - Visit 22 - Low-z Analogs of High Redshift Lyman Alpha Emitters

Wed Jan 18 02:05:47 GMT 2012

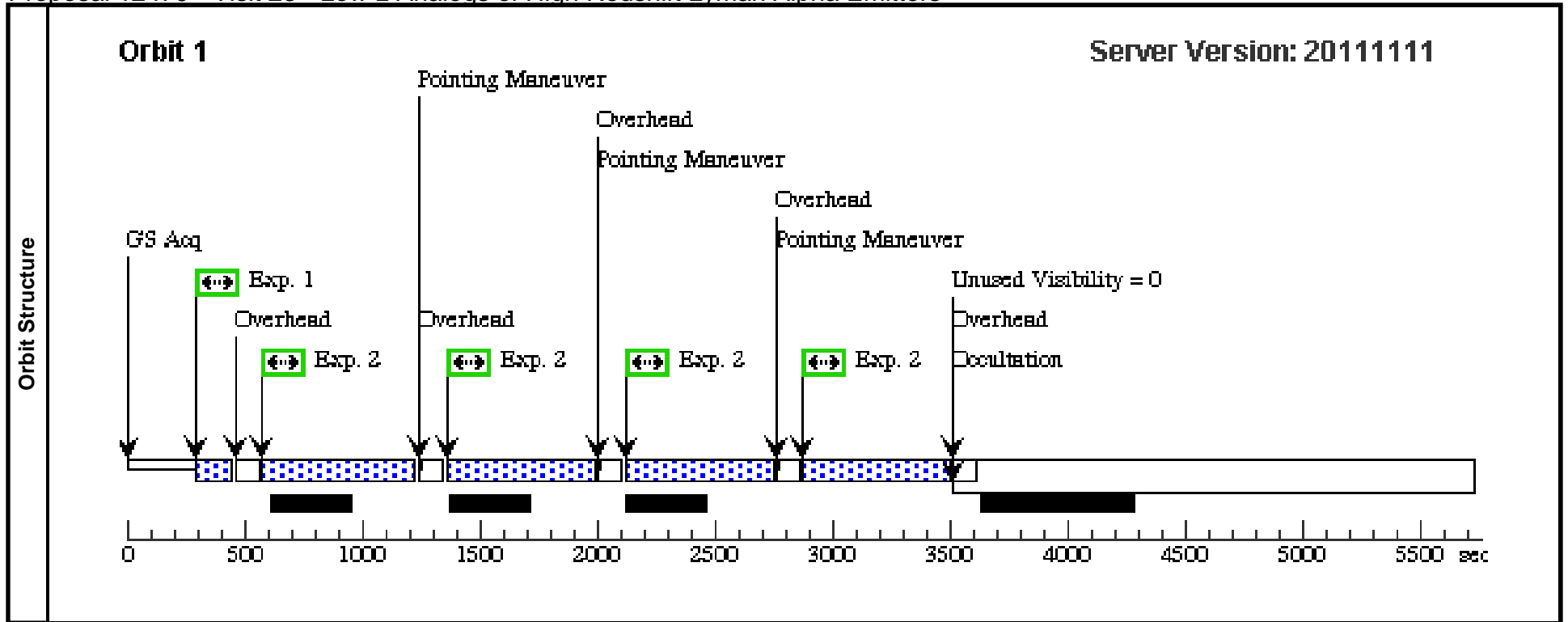
Visit	Proposal 12479, Visit 22, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D; ORIENT 345D TO 15 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER 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		(2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(22)	GNUVGR22	RA: 12 36 39.4100 (189.1642083d) Dec: +62 17 27.50 (62.29097d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(22) GNUVGR22	WFC3/UVIS, ACCUM, UVIS	F200LP		GS ACQ SCENARI O BASE1B3		120 Secs	
									[==>]	[1]
2		(22) GNUVGR22	WFC3/UVIS, ACCUM, UVIS	G280				Pattern 1, Exps 2-2 i n Visit 22 (1)	628 Secs	
									[==>(Pattern 1)]	
									[==>(Pattern 2)]	
									[==>(Pattern 3)]	
									[==>(Pattern 4)]	[1]



Proposal 12479 - Visit 23 - Low-z Analogs of High Redshift Lyman Alpha Emitters

Wed Jan 18 02:05:47 GMT 2012

Visit	Proposal 12479, Visit 23, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 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		(2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(23)	GNUVGR23	RA: 12 36 54.6200 (189.2275833d) Dec: +62 19 13.60 (62.32044d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(23) GNUVGR23	WFC3/UVIS, ACCUM, UVIS	F200LP		GS ACQ SCENARI O BASE1B3		120 Secs	
									[==>]	[1]
2		(23) GNUVGR23	WFC3/UVIS, ACCUM, UVIS	G280				Pattern 1, Exps 2-2 i n Visit 23 (1)	628 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12479 - Visit 24 - Low-z Analogs of High Redshift Lyman Alpha Emitters

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Visit	Proposal 12479, Visit 24, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 165.0D TO 195.0 D; ORIENT 345D TO 15 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		(2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(24)	GNUVGR24	RA: 12 37 9.8700 (189.2911250d) Dec: +62 20 59.60 (62.34989d) Equinox: J2000		V=22	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(24) GNUVGR24	WFC3/UVIS, ACCUM, UVIS	F200LP		GS ACQ SCENARI O BASE1B3		120 Secs	
									[==>]	[1]
2		(24) GNUVGR24	WFC3/UVIS, ACCUM, UVIS	G280				Pattern 1, Exps 2-2 i n Visit 24 (1)	628 Secs	
									[==>(Pattern 1)]	
									[==>(Pattern 2)]	
									[==>(Pattern 3)]	
									[==>(Pattern 4)]	[1]

