



## 12930 - WISE Discovered Ly-alpha Blobs at High-z: The missing link?

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) WISELAB1337+00	WFC3/IR	1	13-Feb-2013 02:24:49.0	yes
02	(2) WISELAB1052+45	WFC3/IR	1	13-Feb-2013 02:24:57.0	yes
03	(3) WISELAB1220-19	WFC3/IR	1	13-Feb-2013 02:25:02.0	yes
04	(4) WISELAB0500-22	WFC3/IR	1	13-Feb-2013 02:25:07.0	yes
05	(5) WISELAB0858+43	WFC3/IR	1	13-Feb-2013 02:25:12.0	yes
06	(6) WISELAB0859-00	WFC3/IR	1	13-Feb-2013 02:25:18.0	yes
07	(7) WISELAB0757+51	WFC3/IR	1	13-Feb-2013 02:25:23.0	yes
08	(8) WISELAB1603+27	WFC3/IR	1	13-Feb-2013 02:25:28.0	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>
09	(9) WISELAB2026+07	WFC3/IR	1	13-Feb-2013 02:25:33.0	yes
10	(10) WISELAB2207+19	WFC3/IR	1	13-Feb-2013 02:25:38.0	yes
11	(11) WISELAB2246-71	WFC3/IR	1	13-Feb-2013 02:25:42.0	yes
12	(12) WISELAB0220+01	WFC3/IR	1	13-Feb-2013 02:25:47.0	yes
13	(13) WISELAB1819+45	WFC3/IR	1	13-Feb-2013 02:25:52.0	yes
14	(14) WISELAB0243+41	WFC3/IR	1	13-Feb-2013 02:25:59.0	yes
15	(15) WISELAB0851+31	WFC3/IR	1	13-Feb-2013 02:26:04.0	yes
16	(16) WISELAB1724+34	WFC3/IR	1	13-Feb-2013 02:26:09.0	yes
17	(17) WISELAB0859+48	WFC3/IR	1	13-Feb-2013 02:26:13.0	yes
18	(18) WISELAB1041-02	WFC3/IR	1	13-Feb-2013 02:26:18.0	yes
19	(19) WISELAB1500+60	WFC3/IR	1	13-Feb-2013 02:26:23.0	yes
20	(20) WISELAB0410-09	WFC3/IR	1	13-Feb-2013 02:26:28.0	yes
21	(21) WISELAB2246-05	WFC3/IR	1	13-Feb-2013 02:26:32.0	yes

21 Total Orbits Used

## ABSTRACT

Using data from the NASA Wide-field Infrared Survey Explorer (WISE) mission coupled with deep optical spectroscopy, we have discovered a new population of  $z > 2$  dusty Lyman-alpha emitters (LAEs) a third of which are Lyman-alpha ``blobs" (LABs;  $> 50$  kpc). These systems are among the most ultra-luminous galaxies at mid-IR wavelengths in the Universe - too rare and distant to have been discovered in previous IR surveys. They have unusually hot mid-/far-infrared colors, are radio quiet, and are almost certain to contain AGN growing at their maximal rates, and therefore experiencing intense feedback effects. The combination of spatially extended Ly-alpha (20-50 times the size of the galaxy), large amounts of dust, and extreme IR luminosities suggest we are catching the key transition from a dusty starburst to a quasar (QSO). These unique properties, make them strong candidates for being one of the ``missing links" in the evolution of massive ellipticals.

We propose WFC3/F160W (rest-optical) observations of the complete sample of WISE Lyman-alpha blobs (21) to characterize their morphologies,

physical sizes, environments, stellar populations, and power source. Related and well-established populations (i.e sub-mm galaxies, QSOs, Lyman break galaxies, and optically selected Lyman-alpha blobs) already have extensive HST observations, and as such provide excellent comparison samples.

### **OBSERVING DESCRIPTION**

WFC3 IR imaging of a complete sample of WISE discovered  $z \sim 2$  hyperluminous IR galaxies with spatially extended Lyman alpha emission of order 100kpc.

Proposal 12930 - Visit 01 - WISE Discovered Ly-alpha Blobs at High-z: The missing link?

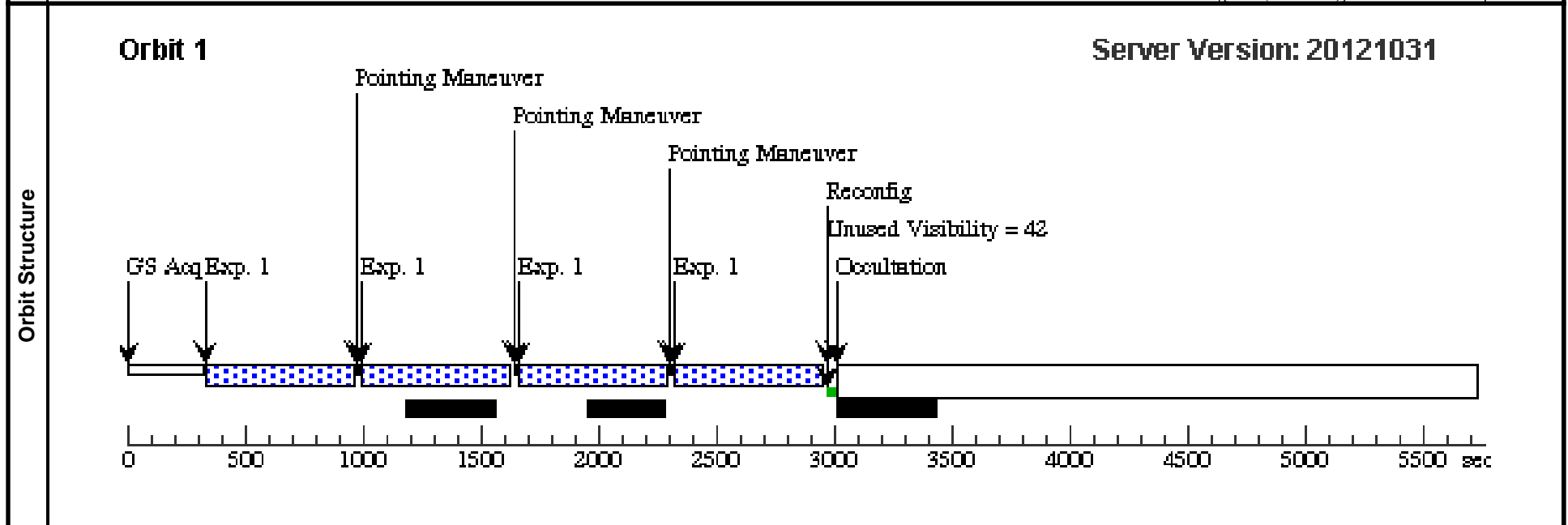
Wed Feb 13 02:26:40 GMT 2013

<b>Visit</b>	<b>Proposal 12930, Visit 01, scheduling</b>		
	<b>Diagnostic Status: No Diagnostics</b>		
	Scientific Instruments: WFC3/IR		
	Special Requirements: SCHED 100%		

<b>Patterns</b>	#	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	

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	WISELAB1337+00	RA: 13 37 39.9410 (204.4164208d) Dec: +00 00 11.67 (.00324d) Equinox: J2000		V=25	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) WISELAB1337+00	WISELAB1337+00	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Pattern 1, Exps 1-1 in Visit 01 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]



Proposal 12930 - Visit 02 - WISE Discovered Ly-alpha Blobs at High-z: The missing link?

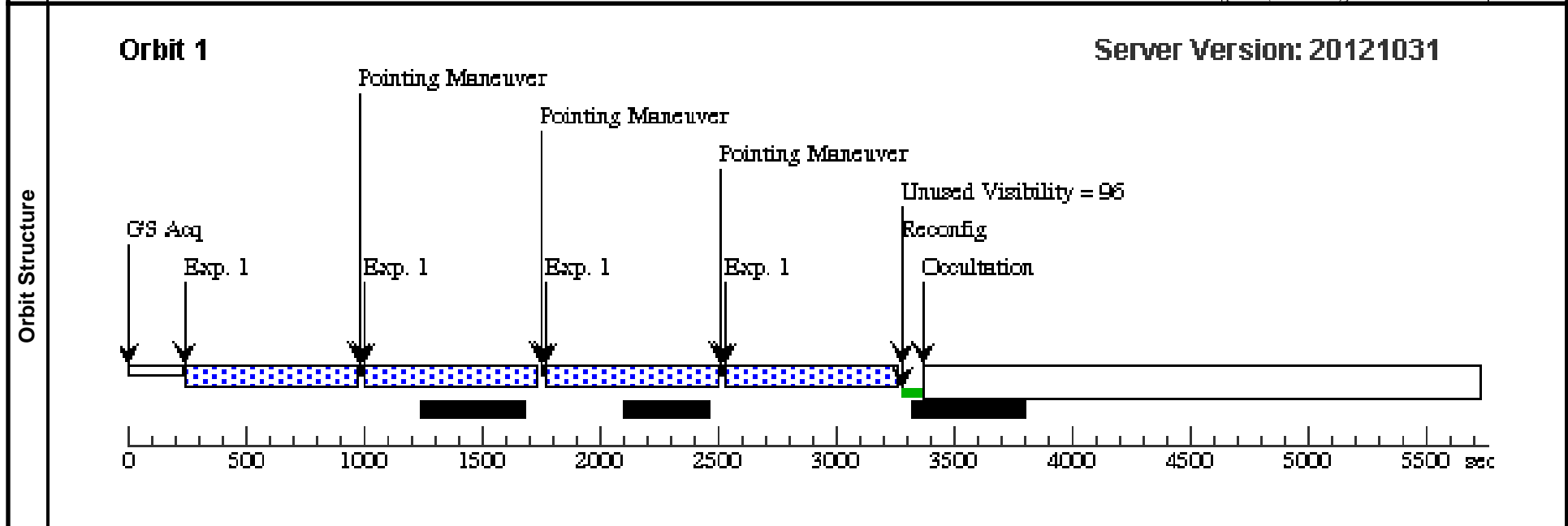
Wed Feb 13 02:26:42 GMT 2013

<b>Visit</b>	<b>Proposal 12930, Visit 02, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: (none)		
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<b>Patterns</b>	#	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)

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	WISELAB1052+45	RA: 10 52 2.1000 (163.0087500d) Dec: +45 59 14.10 (45.98725d) Equinox: J2000		V=25	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) WISELAB1052+45	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=15	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 in Visit 02 (1)	[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 12930 - Visit 03 - WISE Discovered Ly-alpha Blobs at High-z: The missing link?

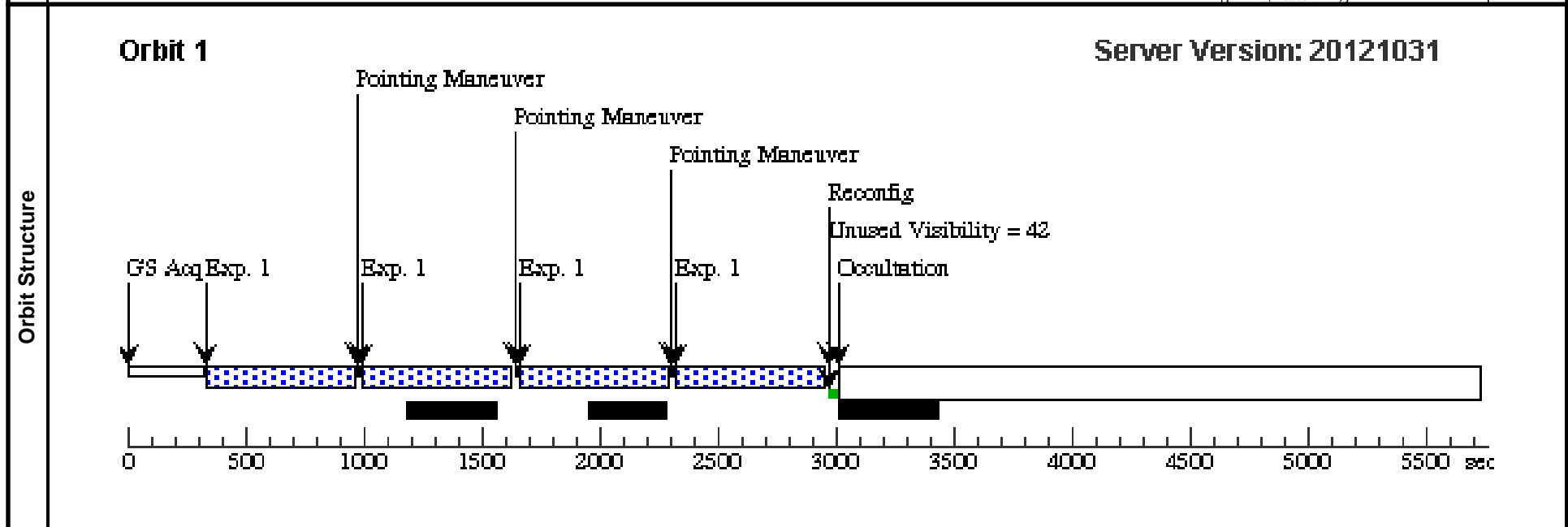
Wed Feb 13 02:26:43 GMT 2013

<b>Visit</b>	<b>Proposal 12930, Visit 03, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%		
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<b>Patterns</b>	#	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)

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	WISELAB1220-19	RA: 12 20 4.7750 (185.0198958d) Dec: -19 19 1.51 (-19.31709d) Equinox: J2000		V=25	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) WISELAB1220-19	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Pattern 1, Exps 1-1 in Visit 03 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12930 - Visit 04 - WISE Discovered Ly-alpha Blobs at High-z: The missing link?

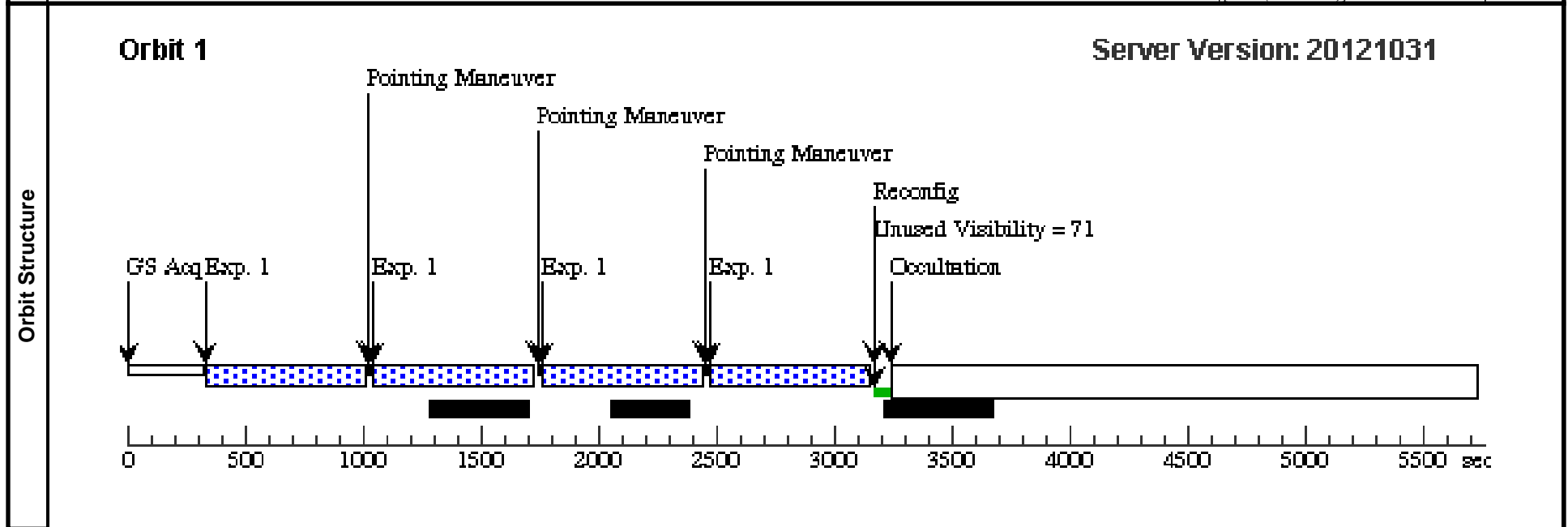
Wed Feb 13 02:26:44 GMT 2013

<b>Visit</b>	<b>Proposal 12930, Visit 04, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: (none)		
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<b>Patterns</b>	#	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)

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	WISELAB0500-22	RA: 05 00 41.1990 (75.1716625d) Dec: -22 53 42.58 (-22.89516d) Equinox: J2000		V=25	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) WISELAB0500-22	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=14		Pattern 1, Exps 1-1 in Visit 04 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12930 - Visit 05 - WISE Discovered Ly-alpha Blobs at High-z: The missing link?

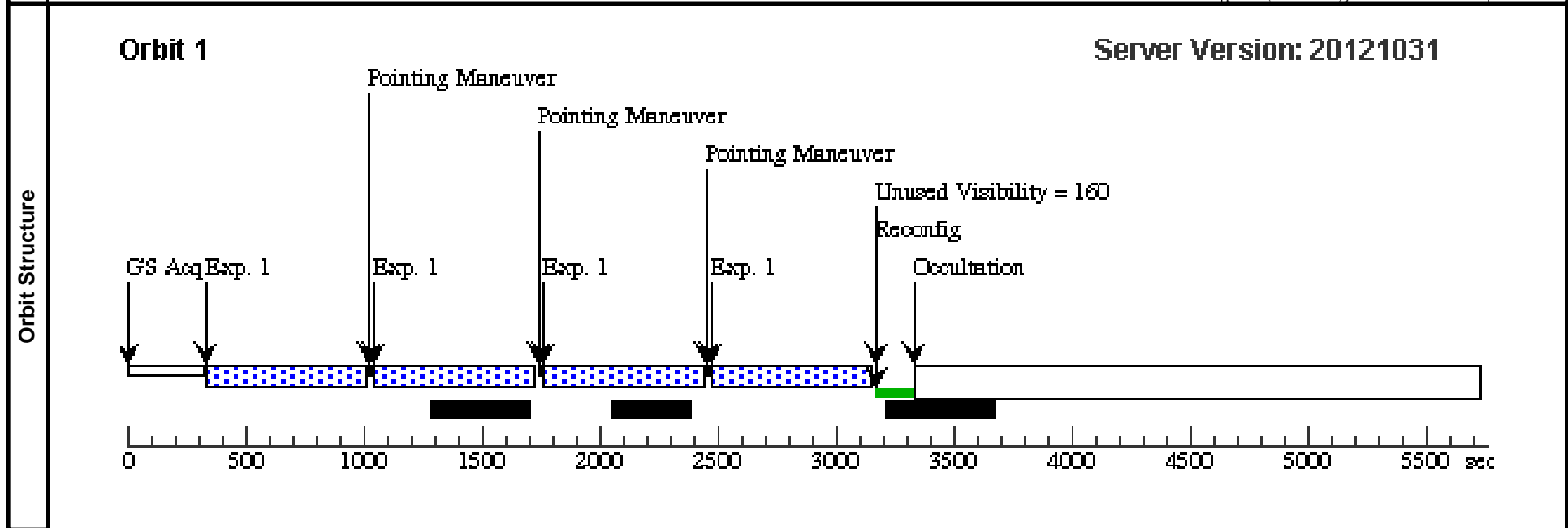
Wed Feb 13 02:26:44 GMT 2013

<b>Visit</b>	<b>Proposal 12930, Visit 05, scheduling</b>		
	<b>Diagnostic Status: No Diagnostics</b>		
	Scientific Instruments: WFC3/IR		
	Special Requirements: (none)		

<b>Patterns</b>	#	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	

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	WISELAB0858+43	RA: 08 58 17.0060 (134.5708583d) Dec: +43 26 43.10 (43.44531d) Equinox: J2000		V=25	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(5) WISELAB0858+43	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=14		Pattern 1, Exps 1-1 in Visit 05 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12930 - Visit 06 - WISE Discovered Ly-alpha Blobs at High-z: The missing link?

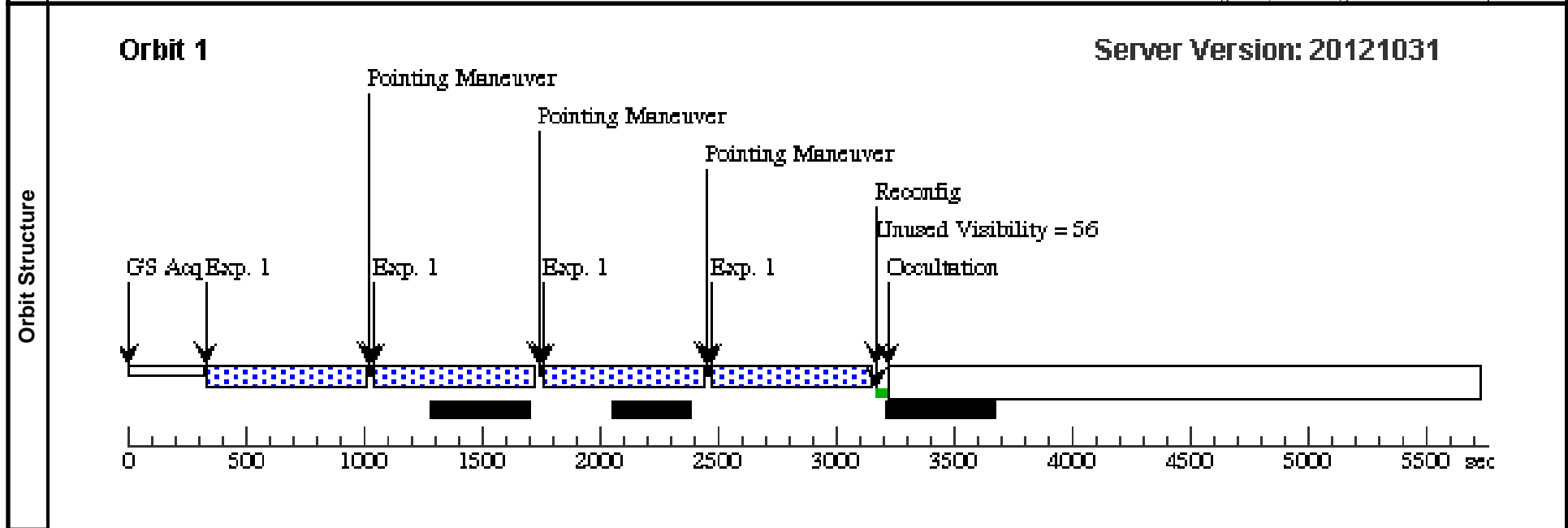
Wed Feb 13 02:26:45 GMT 2013

<b>Visit</b>	<b>Proposal 12930, Visit 06, scheduling</b>		
	<b>Diagnostic Status: No Diagnostics</b>		
	Scientific Instruments: WFC3/IR		
	Special Requirements: (none)		

<b>Patterns</b>	#	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	

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(6)	WISELAB0859-00	RA: 08 59 50.9620 (134.9623417d) Dec: -00 37 54.22 (-.63173d) Equinox: J2000		V=25	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(6) WISELAB0859-00	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=14			Pattern 1, Exps 1-1 in Visit 06 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]



Proposal 12930 - Visit 07 - WISE Discovered Ly-alpha Blobs at High-z: The missing link?

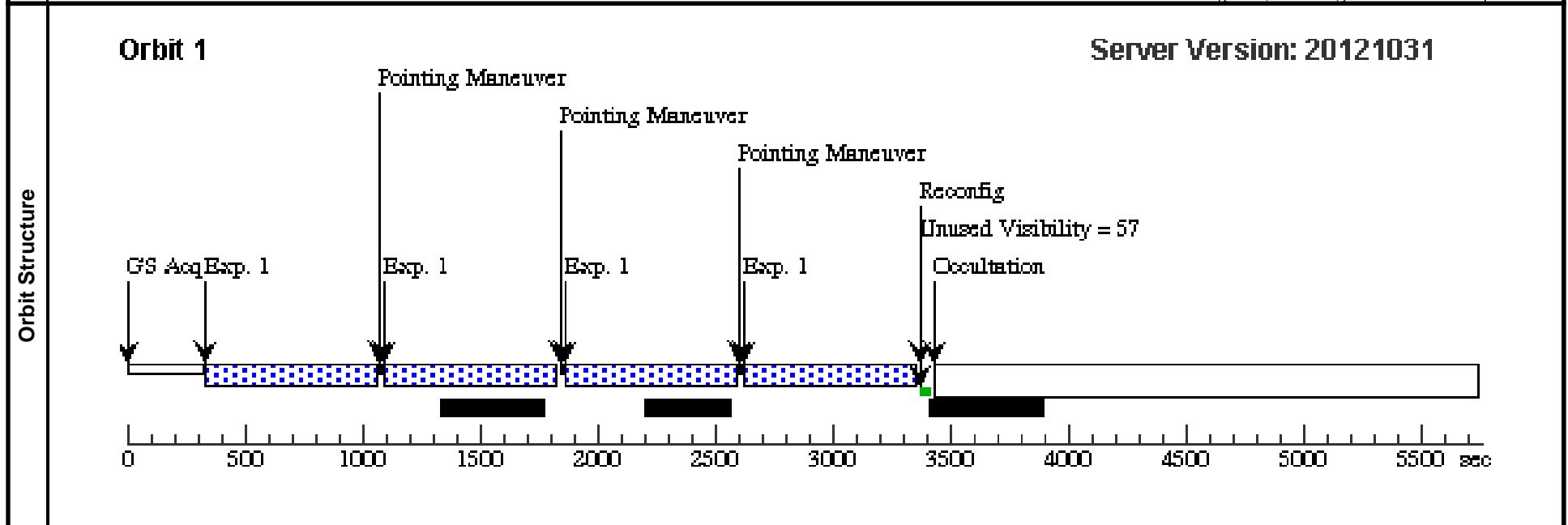
Wed Feb 13 02:26:46 GMT 2013

<b>Visit</b>	<b>Proposal 12930, Visit 07, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: (none)		
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<b>Patterns</b>	#	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)

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(7)	WISELAB0757+51	RA: 07 57 25.0740 (119.3544750d) Dec: +51 13 19.67 (51.22213d) Equinox: J2000		V=25	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(7) WISELAB0757+51	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=15		Pattern 1, Exps 1-1 in Visit 07 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12930 - Visit 08 - WISE Discovered Ly-alpha Blobs at High-z: The missing link?

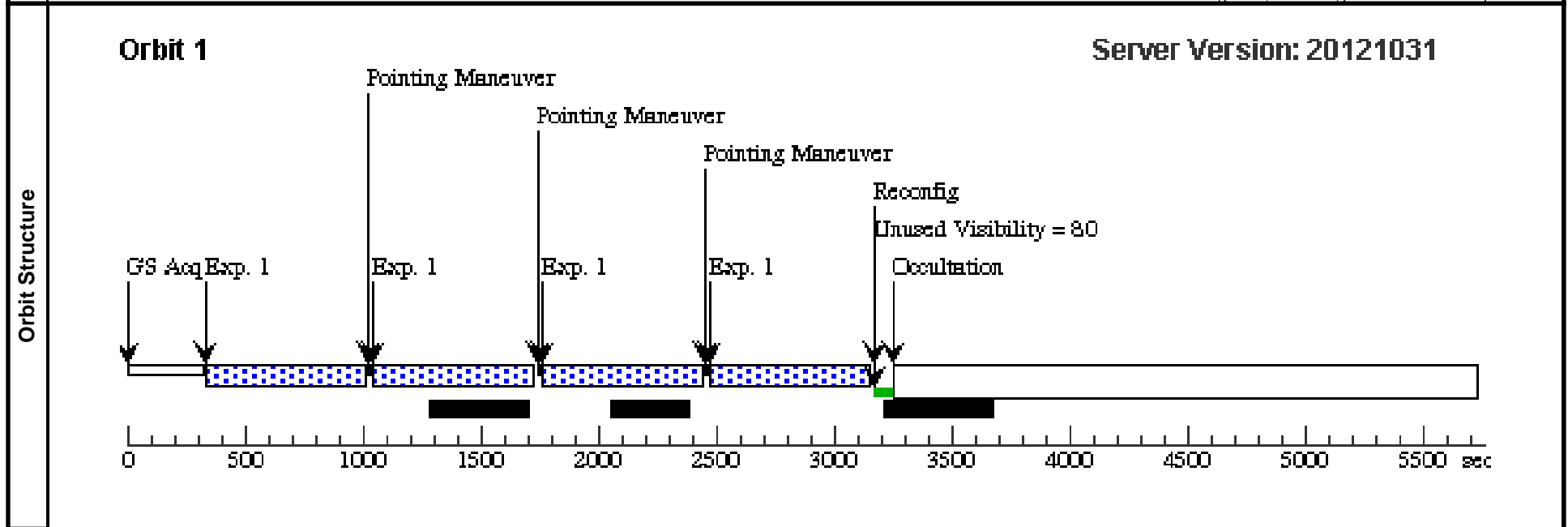
Wed Feb 13 02:26:47 GMT 2013

<b>Visit</b>	<b>Proposal 12930, Visit 08, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: (none)		
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<b>Patterns</b>	#	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)

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(8)	WISELAB1603+27	RA: 16 03 57.3930 (240.9891375d) Dec: +27 45 53.24 (27.76479d) Equinox: J2000		V=25	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(8) WISELAB1603+27	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=14		Pattern 1, Exps 1-1 in Visit 08 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12930 - Visit 09 - WISE Discovered Ly-alpha Blobs at High-z: The missing link?

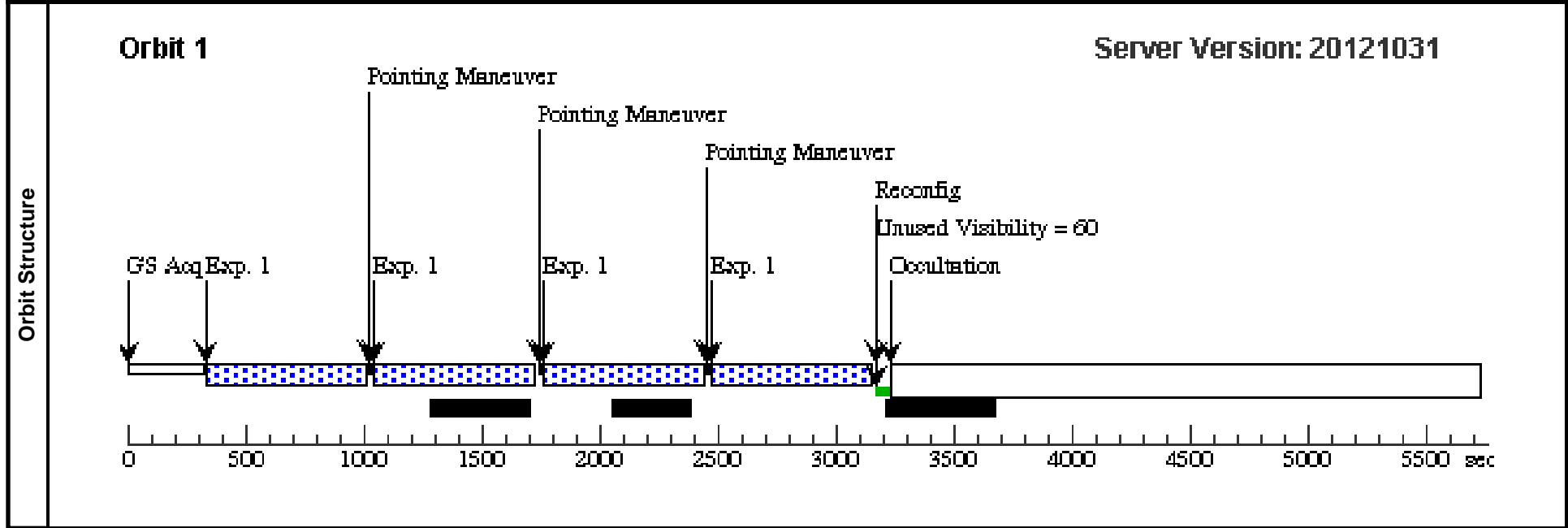
Wed Feb 13 02:26:48 GMT 2013

<b>Visit</b>	Proposal 12930, Visit 09, completed		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: (none)		

<b>Patterns</b>	#	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	

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	WISELAB2026+07	RA: 20 26 15.2710 (306.5636292d) Dec: +07 16 24.02 (7.27334d) Equinox: J2000			V=25

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(9) WISELAB2026+07	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=14			Pattern 1, Exps 1-1 in Visit 09 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]



Proposal 12930 - Visit 10 - WISE Discovered Ly-alpha Blobs at High-z: The missing link?

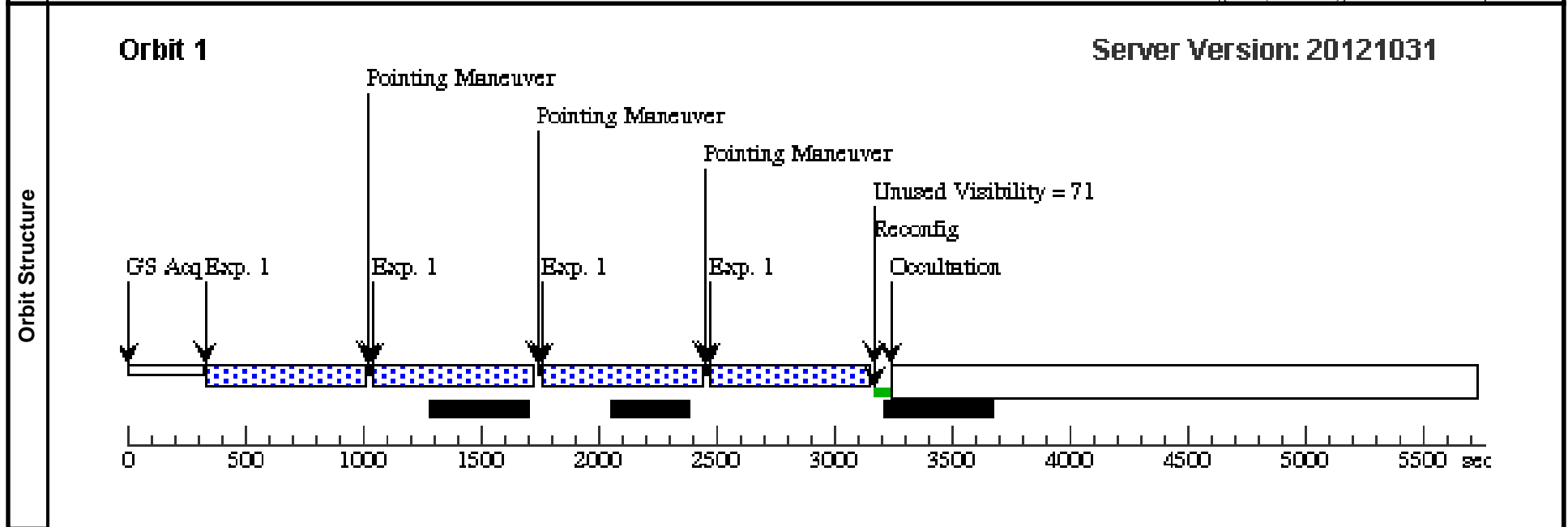
Wed Feb 13 02:26:49 GMT 2013

<b>Visit</b>	<b>Proposal 12930, Visit 10, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: (none)		
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<b>Patterns</b>	#	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)

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(10)	WISELAB2207+19	RA: 22 07 43.8350 (331.9326458d) Dec: +19 39 40.32 (19.66120d) Equinox: J2000		V=25	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(10) WISELAB2207+19	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=14		Pattern 1, Exps 1-1 in Visit 10 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]

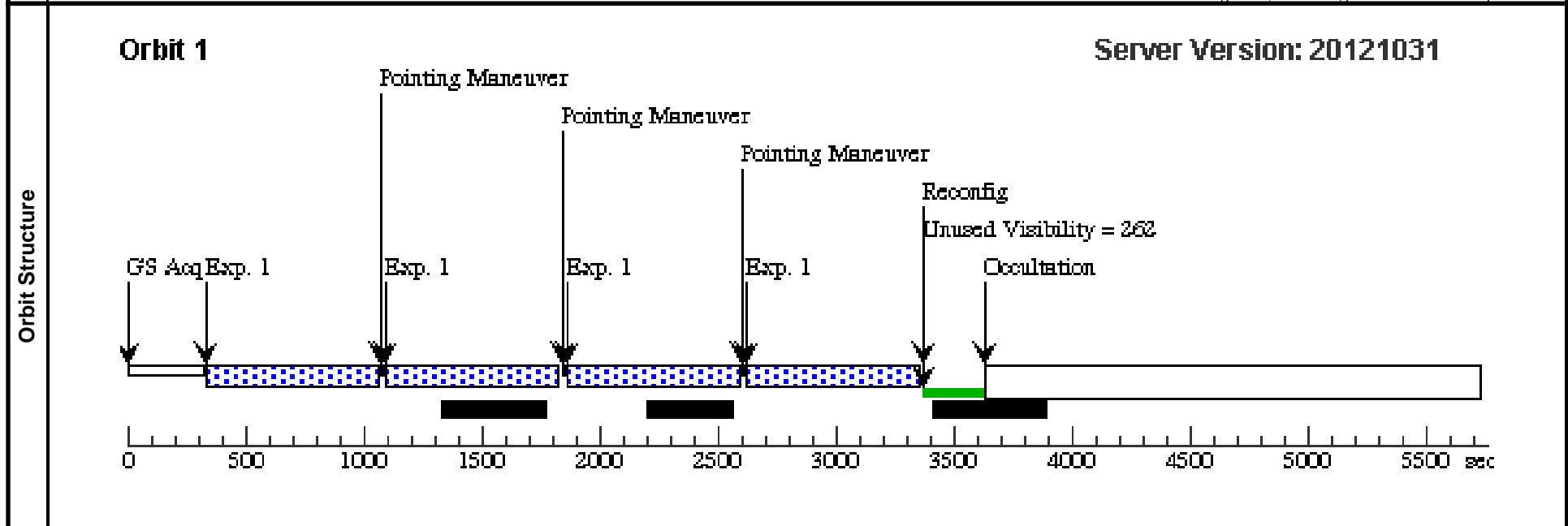


<b>Visit</b>	<b>Proposal 12930, Visit 11, scheduling</b>			
	<b>Diagnostic Status: No Diagnostics</b>			
	Scientific Instruments: WFC3/IR			
	Special Requirements: (none)			

<b>Patterns</b>	#	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	

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(11)	WISELAB2246-71	RA: 22 46 12.0260 (341.5501083d) Dec: -71 44 1.25 (-71.73368d) Equinox: J2000		V=25	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(11) WISELAB2246-71	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=15			Pattern 1, Exps 1-1 in Visit 11 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]



Proposal 12930 - Visit 12 - WISE Discovered Ly-alpha Blobs at High-z: The missing link?

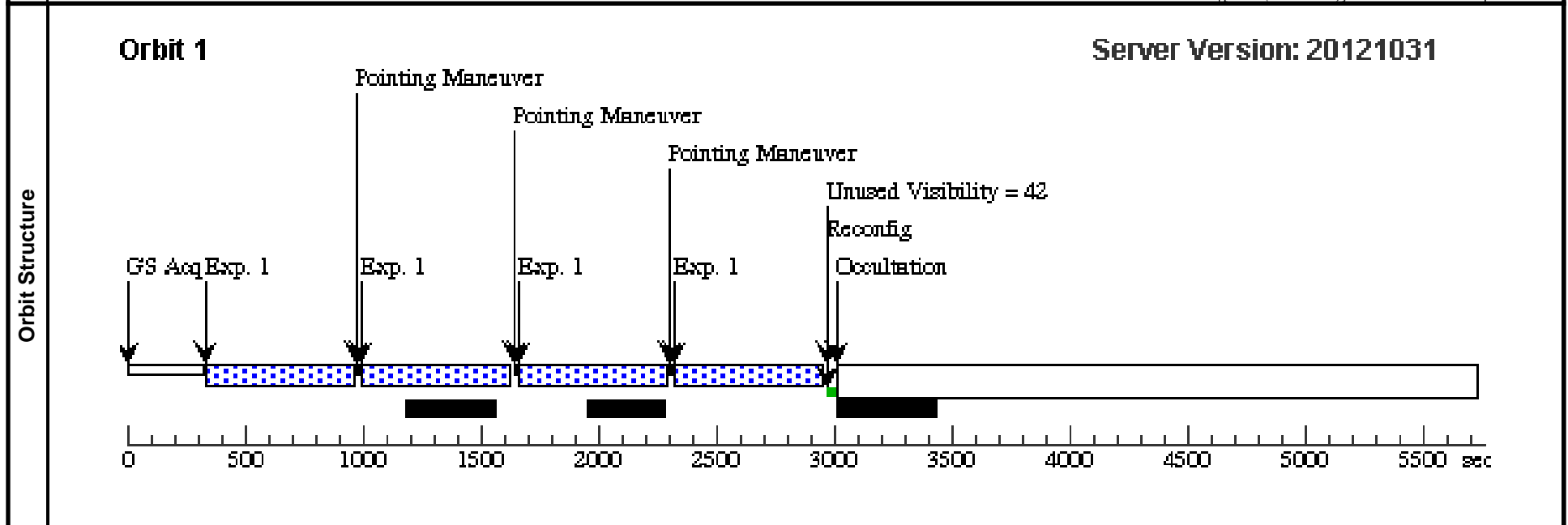
Wed Feb 13 02:26:50 GMT 2013

<b>Visit</b>	<b>Proposal 12930, Visit 12, scheduling</b>		
	<b>Diagnostic Status: No Diagnostics</b>		
	Scientific Instruments: WFC3/IR		
	Special Requirements: SCHED 100%		

<b>Patterns</b>	#	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	

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(12)	WISELAB0220+01	RA: 02 20 44.4730 (35.1853042d) Dec: +01 14 27.56 (1.24099d) Equinox: J2000		V= 25	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(12) WISELAB0220+01	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=13			Pattern 1, Exps 1-1 in Visit 12 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]



Proposal 12930 - Visit 13 - WISE Discovered Ly-alpha Blobs at High-z: The missing link?

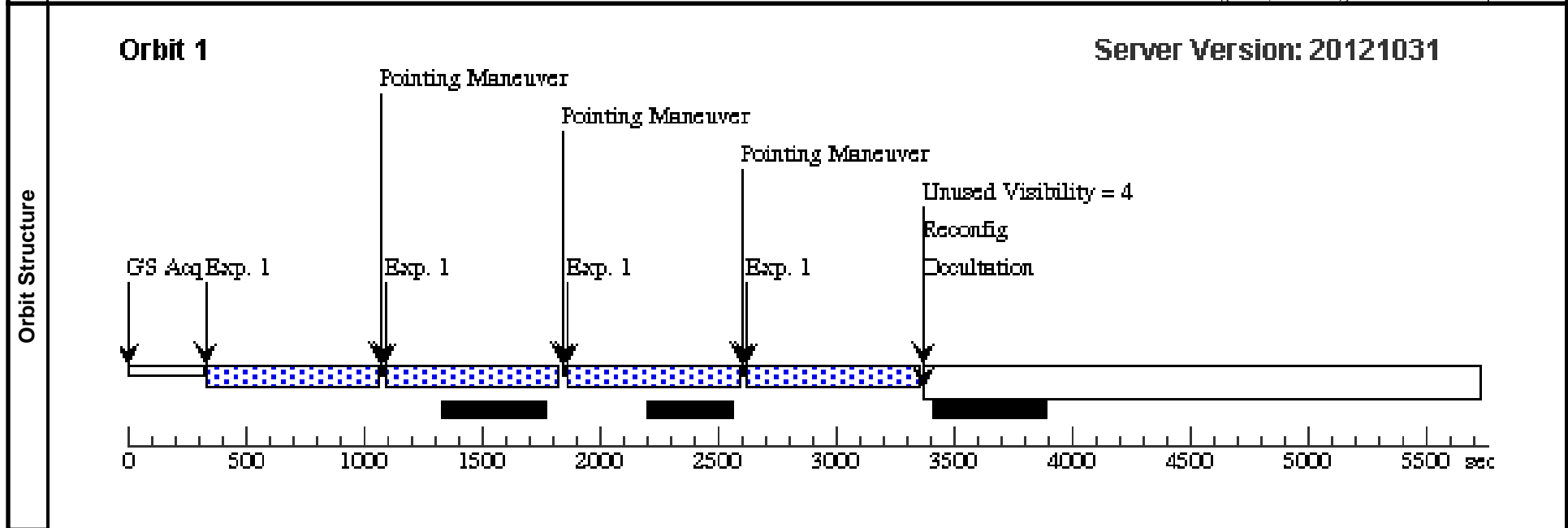
Wed Feb 13 02:26:51 GMT 2013

<b>Visit</b>	Proposal 12930, Visit 13, completed		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: (none)		

<b>Patterns</b>	#	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	

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(13)	WISELAB1819+45	RA: 18 19 41.5210 (274.9230042d) Dec: +45 32 9.95 (45.53610d) Equinox: J2000		V=25	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(13) WISELAB1819+45	WISELAB1819+45	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=15		Pattern 1, Exps 1-1 in Visit 13 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]



Proposal 12930 - Visit 14 - WISE Discovered Ly-alpha Blobs at High-z: The missing link?

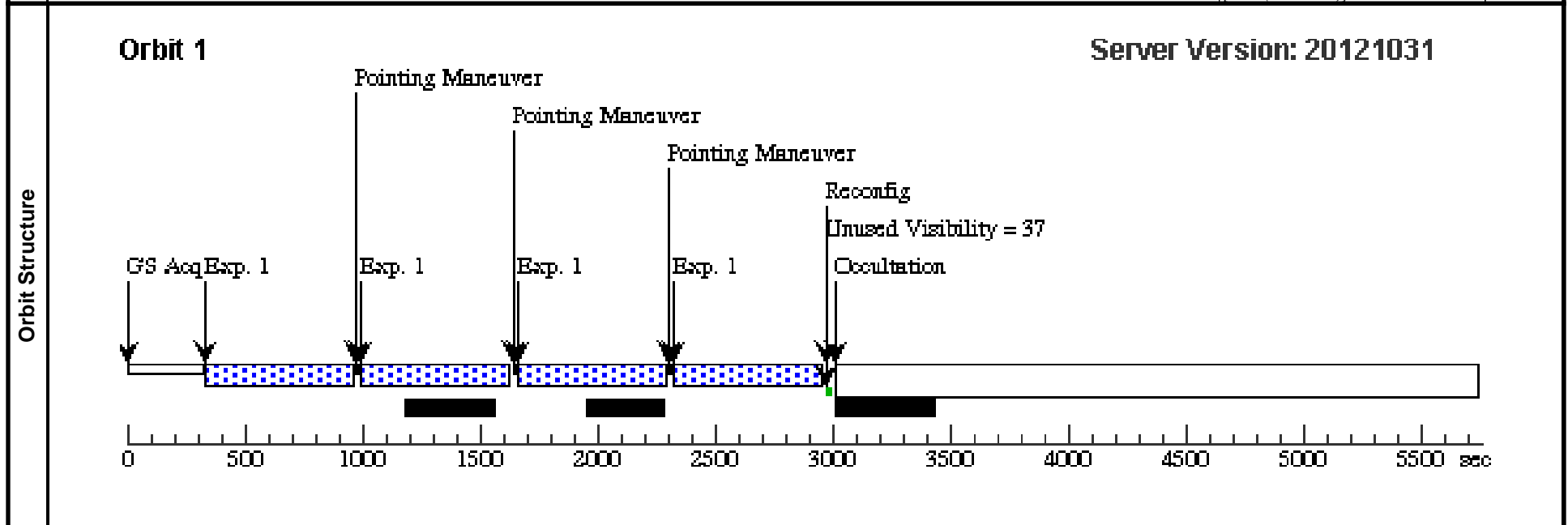
Wed Feb 13 02:26:52 GMT 2013

<b>Visit</b>	Proposal 12930, Visit 14, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%		
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<b>Patterns</b>	#	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)

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(14)	WISELAB0243+41	RA: 02 43 44.1820 (40.9340917d) Dec: +41 58 9.08 (41.96919d) Equinox: J2000		V=25	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(14) WISELAB0243+41	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Pattern 1, Exps 1-1 in Visit 14 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12930 - Visit 15 - WISE Discovered Ly-alpha Blobs at High-z: The missing link?

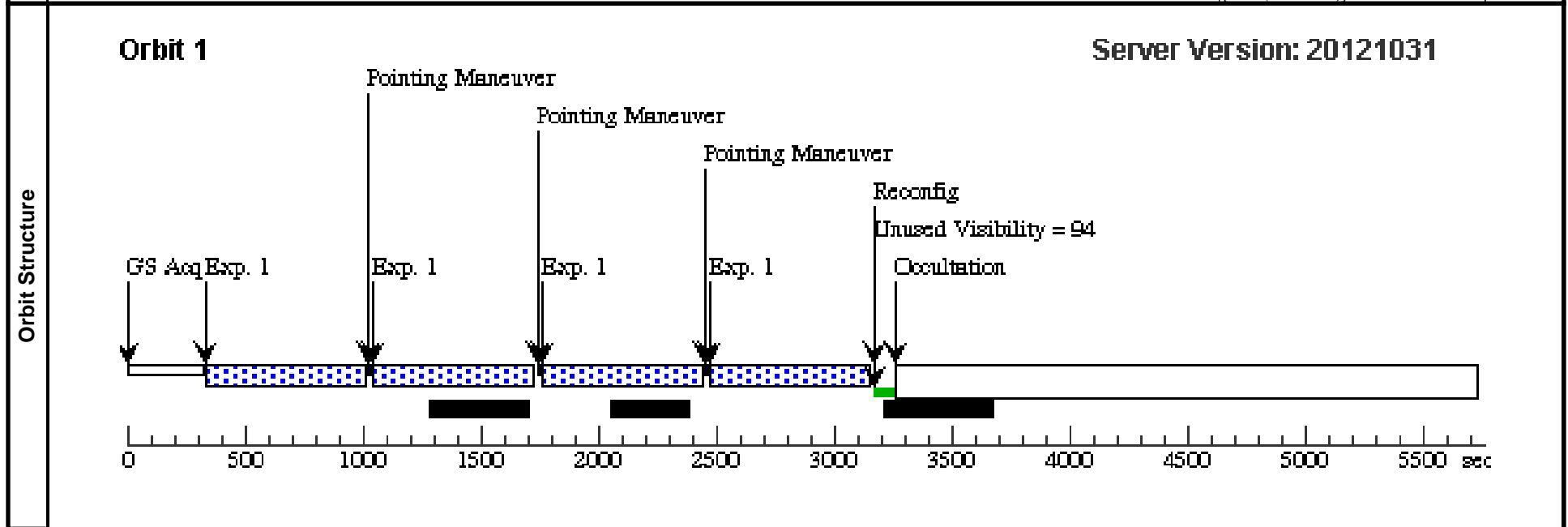
Wed Feb 13 02:26:53 GMT 2013

<b>Visit</b>	<b>Proposal 12930, Visit 15, scheduling</b>		
	<b>Diagnostic Status: No Diagnostics</b>		
	Scientific Instruments: WFC3/IR		
	Special Requirements: (none)		

<b>Patterns</b>	#	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	

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(15)	WISELAB0851+31	RA: 08 51 24.7810 (132.8532542d) Dec: +31 48 56.09 (31.81558d) Equinox: J2000			V=25

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(15) WISELAB0851+31	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=14			Pattern 1, Exps 1-1 in Visit 15 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]



Proposal 12930 - Visit 16 - WISE Discovered Ly-alpha Blobs at High-z: The missing link?

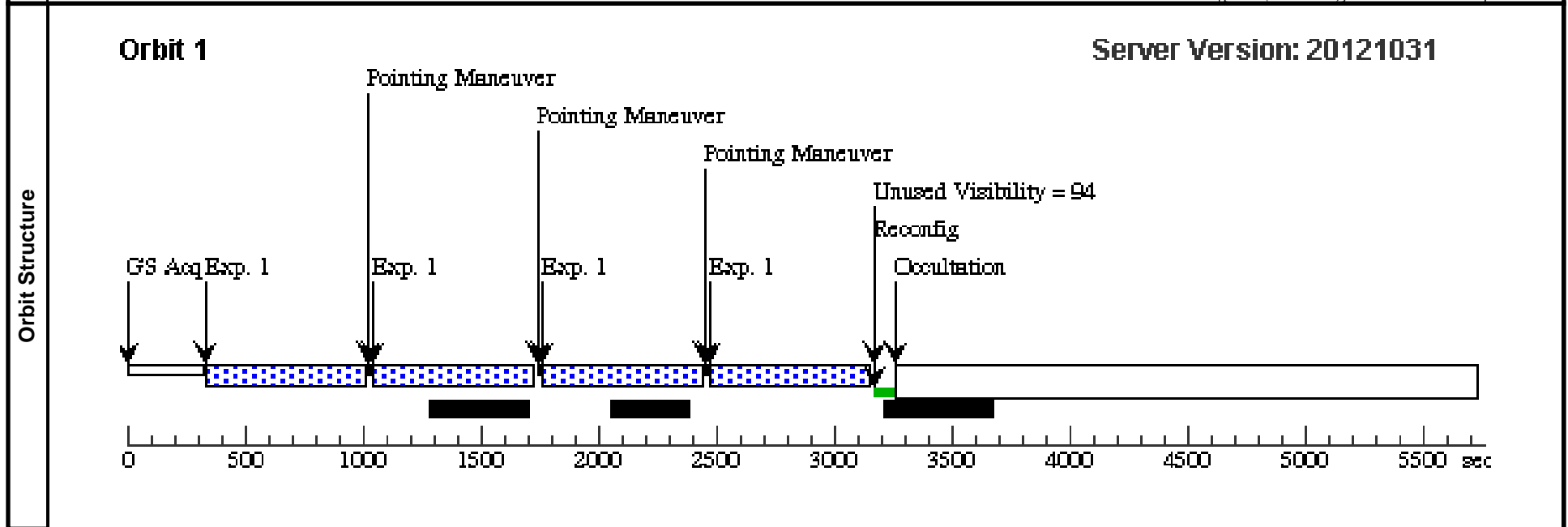
Wed Feb 13 02:26:54 GMT 2013

<b>Visit</b>	<b>Proposal 12930, Visit 16, scheduling</b>		
	<b>Diagnostic Status: No Diagnostics</b>		
	Scientific Instruments: WFC3/IR		
	Special Requirements: (none)		

<b>Patterns</b>	#	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	

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(16)	WISELAB1724+34	RA: 17 24 1.3770 (261.0057375d) Dec: +34 55 58.88 (34.93302d) Equinox: J2000			V=25

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(16) WISELAB1724+34	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=14			Pattern 1, Exps 1-1 in Visit 16 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]

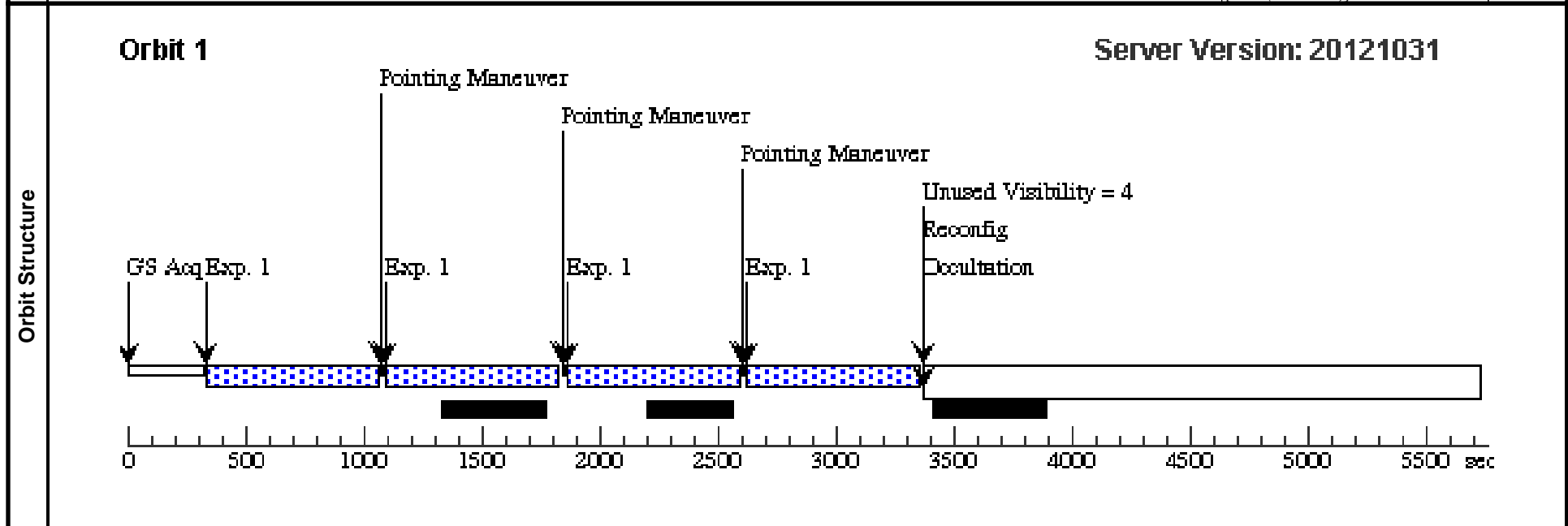


<b>Visit</b>	<b>Proposal 12930, Visit 17, scheduling</b>			
	<b>Diagnostic Status: No Diagnostics</b>			
	Scientific Instruments: WFC3/IR			
	Special Requirements: (none)			

<b>Patterns</b>	#	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	

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(17)	WISELAB0859+48	RA: 08 59 29.9410 (134.8747542d) Dec: +48 23 2.33 (48.38398d) Equinox: J2000		V=25	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(17) WISELAB0859+48	WISELAB0859+48	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=15	GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-1 in Visit 17 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]



Proposal 12930 - Visit 18 - WISE Discovered Ly-alpha Blobs at High-z: The missing link?

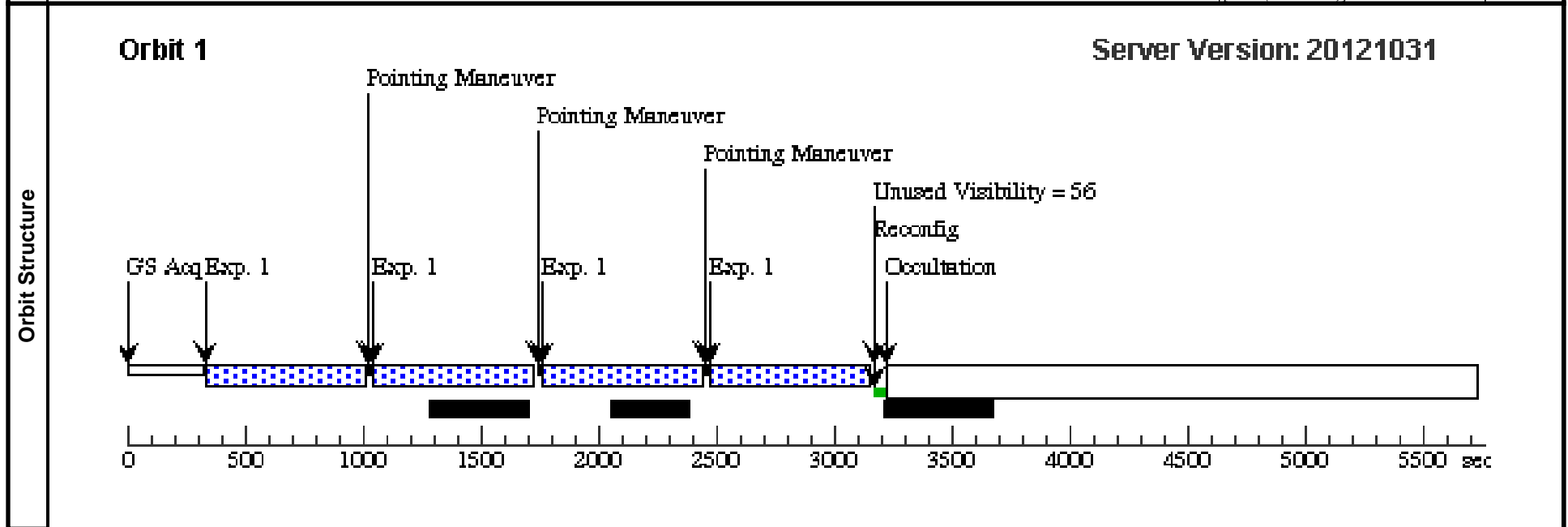
Wed Feb 13 02:26:55 GMT 2013

<b>Visit</b>	<b>Proposal 12930, Visit 18, implementation</b>		
	<b>Diagnostic Status: No Diagnostics</b>		
	Scientific Instruments: WFC3/IR		
	Special Requirements: (none)		

<b>Patterns</b>	#	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	

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(18)	WISELAB1041-02	RA: 10 41 9.1560 (160.2881500d) Dec: -02 52 34.78 (-2.87633d) Equinox: J2000		V=25	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(18) WISELAB1041-02	WISELAB1041-02	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=14	GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-1 in Visit 18 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]



Proposal 12930 - Visit 19 - WISE Discovered Ly-alpha Blobs at High-z: The missing link?

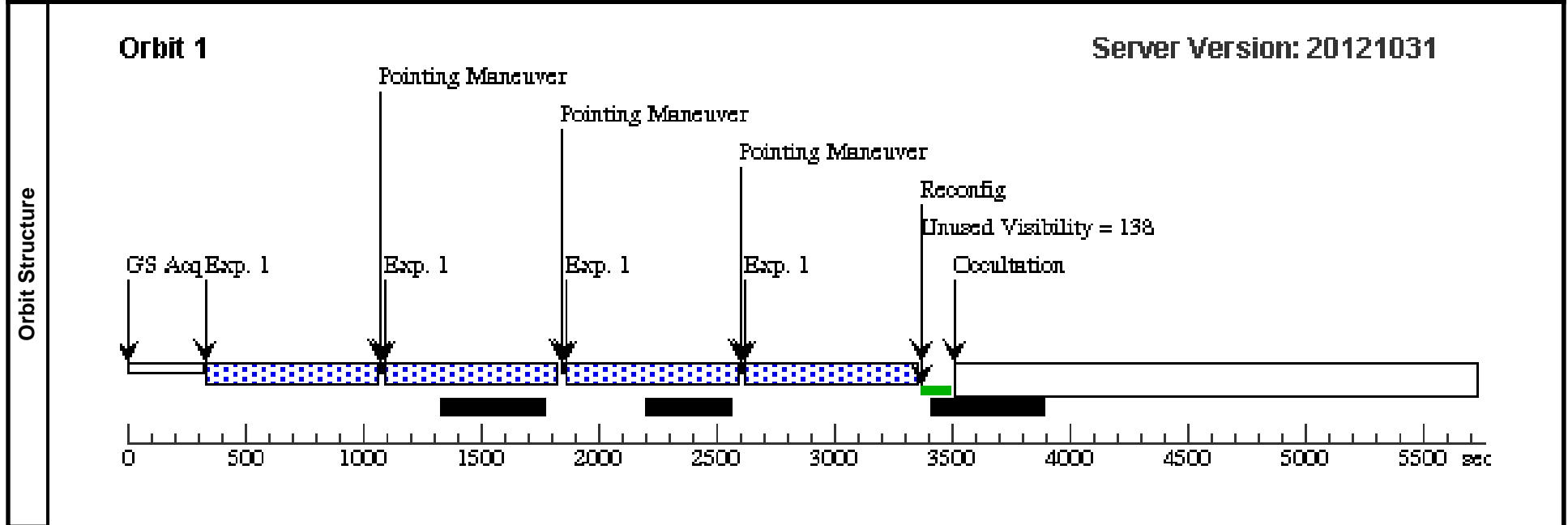
Wed Feb 13 02:26:56 GMT 2013

<b>Visit</b>	<b>Proposal 12930, Visit 19, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: (none)		
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<b>Patterns</b>	#	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)

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(19)	WISELAB1500+60	RA: 15 00 17.3000 (225.0720833d) Dec: +60 14 21.00 (60.23917d) Equinox: J2000		V=25	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(19) WISELAB1500+60	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=15		Pattern 1, Exps 1-1 in Visit 19 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12930 - Visit 20 - WISE Discovered Ly-alpha Blobs at High-z: The missing link?

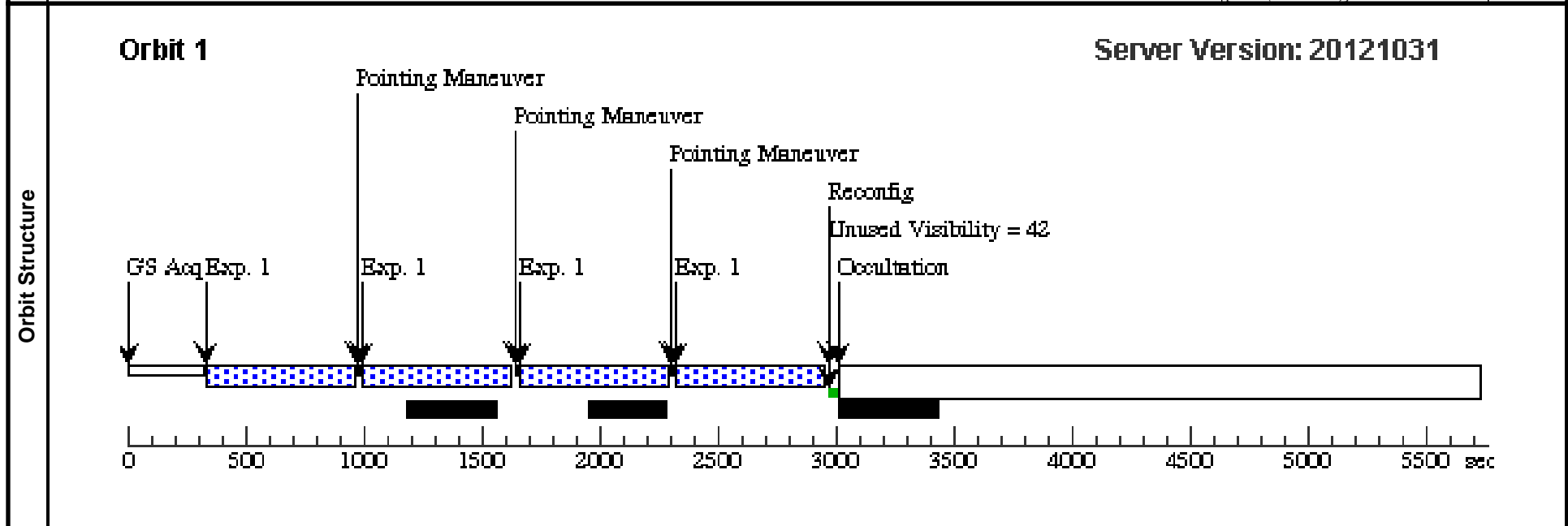
Wed Feb 13 02:26:57 GMT 2013

<b>Visit</b>	Proposal 12930, Visit 20, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%		

<b>Patterns</b>	#	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)

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(20)	WISELAB0410-09	RA: 04 10 10.6010 (62.5441708d) Dec: -09 13 5.23 (-9.21812d) Equinox: J2000		V=25	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(20) WISELAB0410-09	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Pattern 1, Exps 1-1 in Visit 20 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12930 - Visit 21 - WISE Discovered Ly-alpha Blobs at High-z: The missing link?

Wed Feb 13 02:26:58 GMT 2013

<b>Visit</b>	<b>Proposal 12930, Visit 21, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: (none)		
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<b>Patterns</b>	#	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)

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(21)	WISELAB2246-05	RA: 22 46 7.5510 (341.5314625d) Dec: -05 26 34.98 (-5.44305d) Equinox: J2000		V=25	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(21) WISELAB2246-05	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=14		Pattern 1, Exps 1-1 in Visit 21 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]

