



12558 - Identifying and studying gamma-ray bursts at very high redshifts

Cycle: 19, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Prof. Nial R. Tanvir (PI) (ESA Member) (Contact)	University of Leicester	nrt3@star.le.ac.uk
Dr. James Rhoads (CoI) (AdminUSPI)	Arizona State University	james.rhoads@asu.edu
Dr. Andrew S. Fruchter (CoI)	Space Telescope Science Institute	fruchter@stsci.edu
Dr. Andrew J. Levan (CoI) (ESA Member)	The University of Warwick	a.j.levan@warwick.ac.uk
Prof. Joshua S. Bloom (CoI)	University of California - Berkeley	jbloom@astron.berkeley.edu
Prof. Edo Berger (CoI)	Harvard University	eberger@cfa.harvard.edu
Prof. Jens Hjorth (CoI) (ESA Member)	University of Copenhagen, Niels Bohr Institute	jens@dark-cosmology.dk
Prof. Johan P. U. Fynbo (CoI) (ESA Member)	University of Copenhagen, Niels Bohr Institute	jfynbo@dark-cosmology.dk
Dr. Jochen Greiner (CoI) (ESA Member)	Max-Planck-Institut fur extraterrestrische Physik	jcg@mpe.mpg.de
Dr. Daniel Perley (CoI)	California Institute of Technology	dperley@astro.caltech.edu
Dr. Kuntal Misra (CoI)	Aryabhata Research Institute of Observational Sciences	kuntal@aries.res.in
Dr. Pall Jakobsson (CoI)	University of Iceland	pja@raunvis.hi.is
Prof. Malcolm Bremer (CoI) (ESA Member)	University of Bristol	m.bremer@bristol.ac.uk
Dr. Elizabeth R. Stanway (CoI) (ESA Member)	The University of Warwick	e.r.stanway@warwick.ac.uk
Dr. Neil Gehrels (CoI)	NASA Goddard Space Flight Center	neil.gehrels@nasa.gov
Mr. Kim Tibbetts-Harlow (CoI) (ESA Member)	University of Leicester	kljt1@star.le.ac.uk

VISITS

Proposal 12558 (STScI Edit Number: 0, Created: Monday, March 18, 2013 8:03:06 PM EST) - Overview

<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>
GA	(4) GRB120923A	WFC3/IR	1	19-Mar-2013 01:01:11.0	yes
GB	(4) GRB120923A	WFC3/IR	1	19-Mar-2013 01:01:18.0	yes
GC	(4) GRB120923A	WFC3/IR	1	19-Mar-2013 01:01:22.0	yes
GD	(4) GRB120923A	WFC3/IR	1	19-Mar-2013 01:01:26.0	yes
GE	(4) GRB120923A	WFC3/IR	1	19-Mar-2013 01:01:31.0	yes
GF	(4) GRB120923A	WFC3/IR	1	19-Mar-2013 01:01:35.0	yes
RA	(4) GRB120923A	WFC3/IR	1	19-Mar-2013 01:01:39.0	yes
RB	(4) GRB120923A	WFC3/IR	1	19-Mar-2013 01:01:42.0	yes
RC	(4) GRB120923A	WFC3/IR	1	19-Mar-2013 01:01:46.0	yes
RD	(4) GRB120923A	WFC3/IR	1	19-Mar-2013 01:01:50.0	yes
RE	(4) GRB120923A	WFC3/IR	1	19-Mar-2013 01:01:54.0	yes
RF	(4) GRB120923A	WFC3/IR	1	19-Mar-2013 01:01:58.0	yes
H1	(3) GRB-IMAGING-TARGET	WFC3/IR	1	19-Mar-2013 01:02:02.0	yes
H2	(3) GRB-IMAGING-TARGET	WFC3/IR	2	19-Mar-2013 01:02:08.0	yes
H3	(3) GRB-IMAGING-TARGET	WFC3/IR	4	19-Mar-2013 01:02:16.0	yes
F1	(4) GRB120923A	WFC3/IR	1	19-Mar-2013 01:02:25.0	yes
F2	(3) GRB-IMAGING-TARGET	WFC3/IR	2	19-Mar-2013 01:02:30.0	yes
F3	(4) GRB120923A	WFC3/IR	4	19-Mar-2013 01:02:38.0	yes
J1	(4) GRB120923A	WFC3/IR	1	19-Mar-2013 01:02:45.0	yes
J2	(3) GRB-IMAGING-TARGET	WFC3/IR	2	19-Mar-2013 01:02:50.0	yes
J3	(3) GRB-IMAGING-TARGET	WFC3/IR	4	19-Mar-2013 01:02:58.0	yes

33 Total Orbits Used

ABSTRACT

Gamma-ray bursts are bright enough to be seen to very great distances and their afterglows can provide redshifts and positions for their host galaxies, and in some cases details of the host ISM and the IGM close to the burst. Thus GRBs offer a unique probe of early star formation and the galaxy

populations in the era of reionization. Our efforts to identify high- z GRBs were rewarded with the discovery of GRB 090423 at redshift 8.2. However, it remains the case that some good candidate high- z GRBs cannot be followed up quickly or deeply enough with ground-based IR spectroscopy, and indeed it is likely for others the Ly-alpha break falls in difficult regions of the IR spectrum. GRB 090429B is an example, which had a photo- z of 9.4, but for which spectroscopy was curtailed due to bad weather. WFC3/IR on HST can obtain redshifts based on the location of the Ly-alpha break via slitless grism spectroscopy, to considerably deeper limits (and hence later times) than is possible from the ground, thus offering a solution to this problem. Our proposal aims to increase the efficiency of locating $z > 7$ GRBs by performing such spectroscopy on up to two candidates for which photometry suggests they are very high- z , but where the redshift can not be secured from the ground. We also propose to monitor the afterglow of one $z > 7$ GRB found, to allow comparison with the lower redshift population of bursts, and to perform an initial search for its host.

OBSERVING DESCRIPTION

We propose to observe the locations of candidate or confirmed high- z GRBs using ACS/WFC or WFC3/IR. The aims are to i) determine or confirm redshifts via grism spectroscopy, ii) measure the late time lightcurves of the bursts and iii) characterize the nature of the host galaxies. We have therefore defined several observations

- 1) WFC3 grism spectroscopy. Visits GA-GF specify short exposures in F160W, followed by a 2 point dither observation using G102. The visits themselves will be triggered together and use POS-TARG offsets to recreate a 6-point dither pattern. Visits RA-RF are similar, but for candidate higher redshift events, and utilize G140L. The visits are 1 orbit long for scheduling convenience, but will be triggered together.
- 2) Short exposures for lightcurve monitoring, may be taken at similar times to spectroscopy. This includes 1 orbits (early) and 2 orbit (later) time observations of the afterglows in F125W, F140W and F160W. The precise filters will be chosen at the time to optimally sample both lightcurve and SED.
- 3) Late time observations to characterize the nature of the host galaxy, and provide a template for subtraction from early data. These observations will be ~ 4 orbits in duration, and will use one of the filters described above.

Proposal 12558 - Visit GA - Identifying and studying gamma-ray bursts at very high redshifts

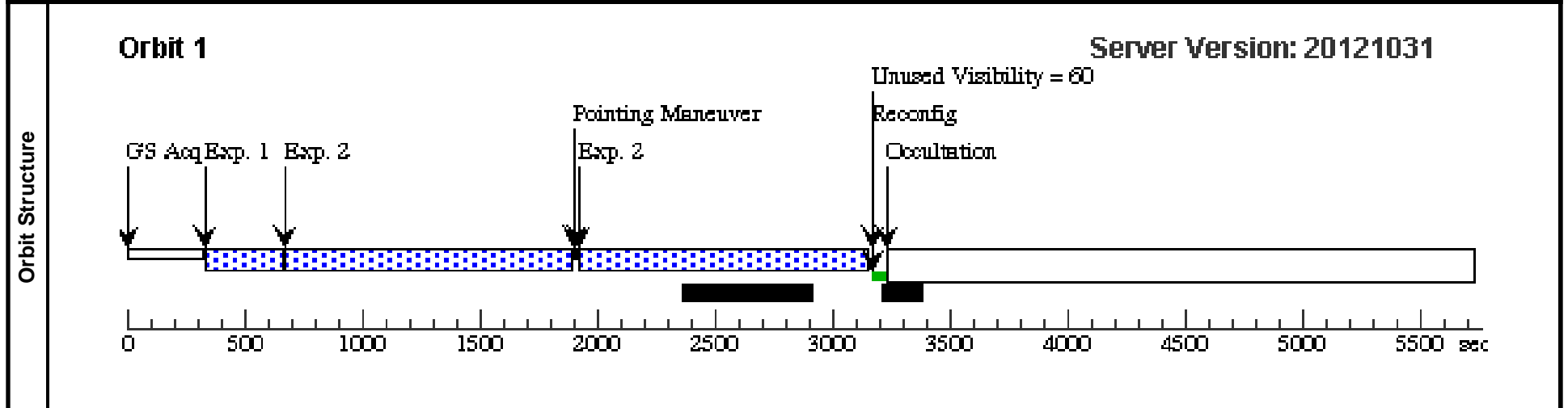
Tue Mar 19 01:03:07 GMT 2013

Visit	Proposal 12558, Visit GA, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 99.5D TO 100.5 D; BEFORE 30-SEP-2012:23:59:00		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(4)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(2)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	GRB120923A	RA: 20 15 10.7800 (303.7949167d) Dec: +06 13 16.30 (6.22119d) Equinox: J2000		V=25	Reference Frame: Gemini

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=7; SAMP-SEQ=SPAR S50			[==>]	[1]
	2		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=13; SAMP-SEQ=SPAR S100		Pattern 4, Exps 2-2 in Visit GA (4)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 12558 - Visit GB - Identifying and studying gamma-ray bursts at very high redshifts

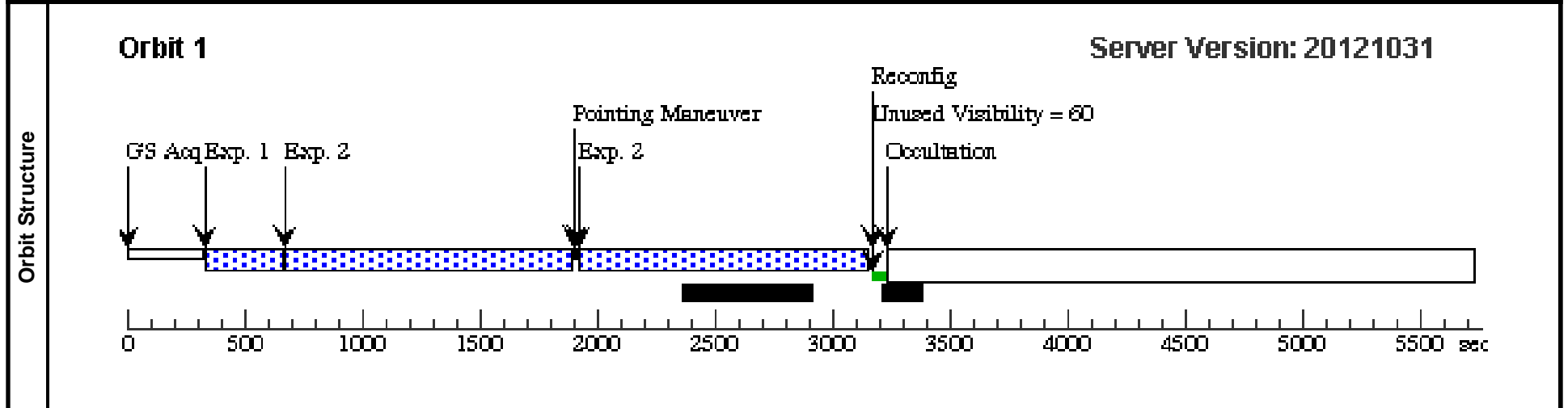
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(4)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(2)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	GRB120923A	RA: 20 15 10.7800 (303.7949167d) Dec: +06 13 16.30 (6.22119d) Equinox: J2000		V=25	Reference Frame: Gemini

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=7; SAMP-SEQ=SPAR S50	POS TARG 0.33875, 0.1211		[==>]	[1]
	2		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.33875, 0.1211	Pattern 4, Exps 2-2 in Visit GB (4)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 12558 - Visit GC - Identifying and studying gamma-ray bursts at very high redshifts

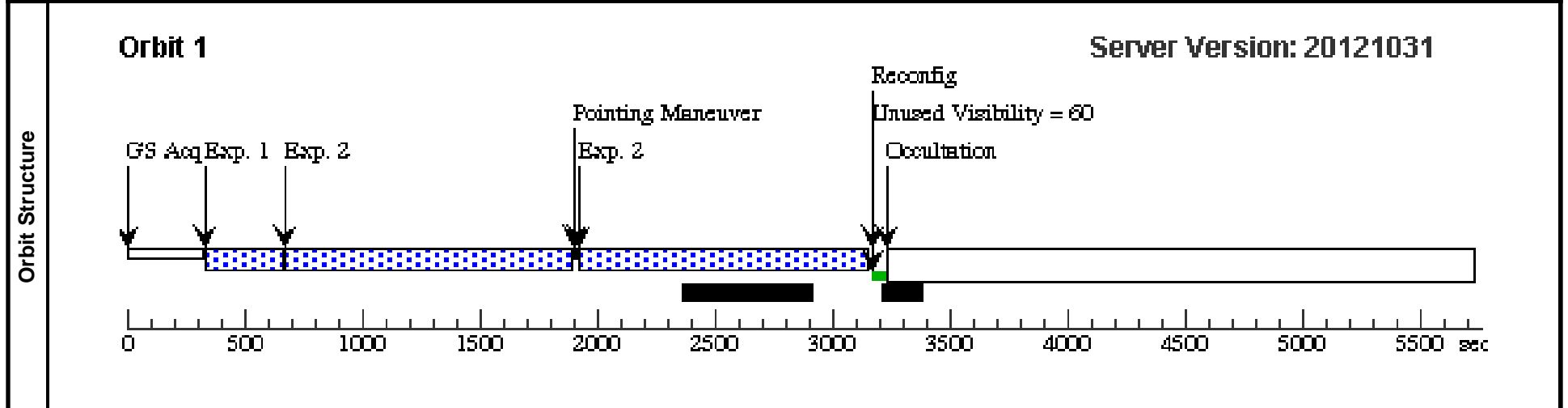
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Visit	Proposal 12558, Visit GC, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 99.5D TO 100.5 D; BEFORE 30-SEP-2012:23:59:00		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(4)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(2)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	GRB120923A	RA: 20 15 10.7800 (303.7949167d) Dec: +06 13 16.30 (6.22119d) Equinox: J2000		V=25	Reference Frame: Gemini

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=7; SAMP-SEQ=SPAR S50	POS TARG 0.45121 5,0.403263		[==>]	[1]
	2		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.45121 5,0.403263	Pattern 4, Exps 2-2 in Visit GC (4)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 12558 - Visit GD - Identifying and studying gamma-ray bursts at very high redshifts

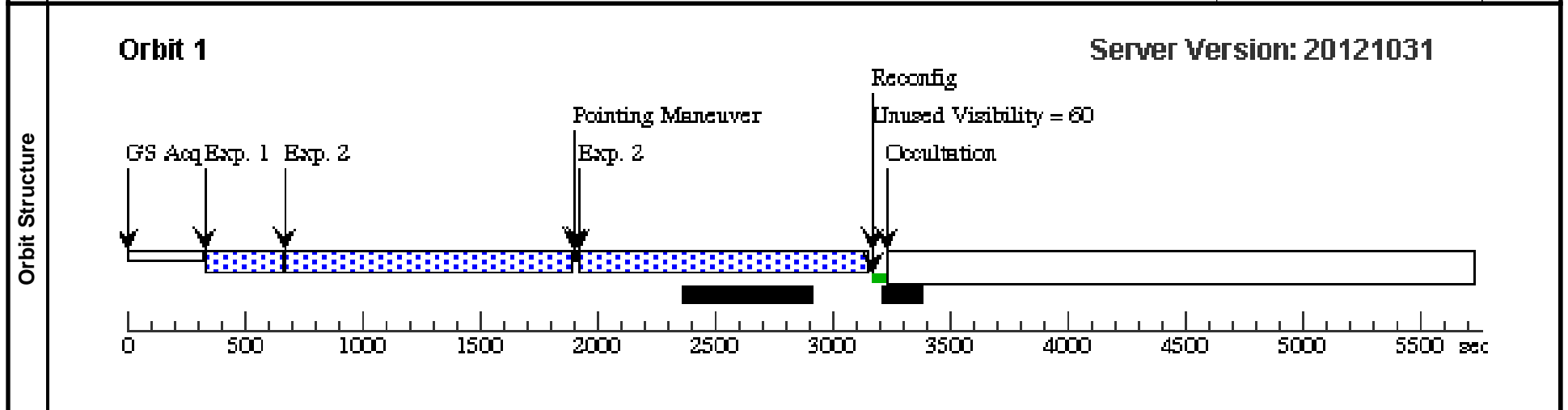
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Visit	Proposal 12558, Visit GD, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 99.5D TO 100.5 D; BEFORE 30-SEP-2012:23:59:00		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(4)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(2)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	GRB120923A	RA: 20 15 10.7800 (303.7949167d) Dec: +06 13 16.30 (6.22119d) Equinox: J2000		V=25	Reference Frame: Gemini

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=7; SAMP-SEQ=SPAR S50	POS TARG 0.78996 5,0.524363		[==>]	[1]
	2		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.78996 5,0.524363	Pattern 4, Exps 2-2 in Visit GD (4)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 12558 - Visit GE - Identifying and studying gamma-ray bursts at very high redshifts

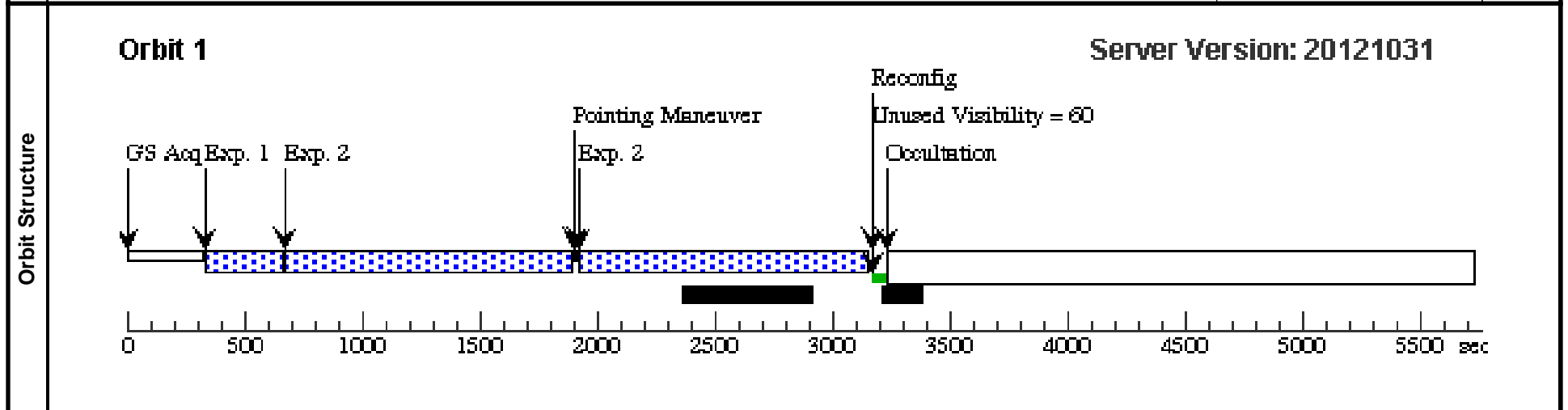
Tue Mar 19 01:03:11 GMT 2013

Visit	Proposal 12558, Visit GE, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 99.5D TO 100.5 D; BEFORE 30-SEP-2012:23:59:00		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(4)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(2)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	GRB120923A	RA: 20 15 10.7800 (303.7949167d) Dec: +06 13 16.30 (6.22119d) Equinox: J2000		V=25	Reference Frame: Gemini

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=7; SAMP-SEQ=SPAR S50	POS TARG 0.90243, 0.806526		[==>]	[1]
	2		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.90243, 0.806526	Pattern 4, Exps 2-2 in Visit GE (4)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 12558 - Visit GF - Identifying and studying gamma-ray bursts at very high redshifts

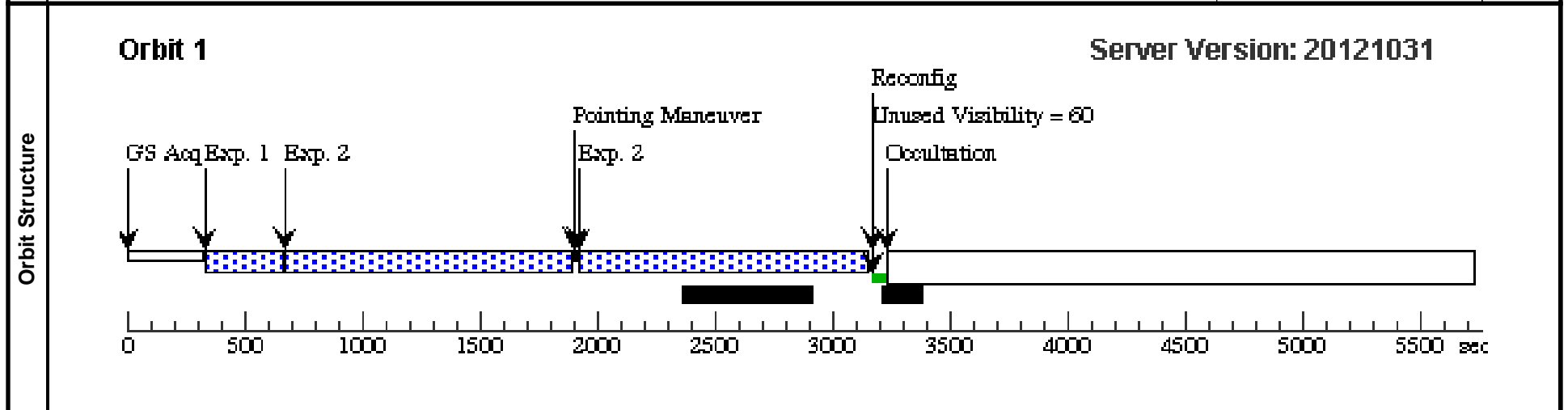
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(4)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(2)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	GRB120923A	RA: 20 15 10.7800 (303.7949167d) Dec: +06 13 16.30 (6.22119d) Equinox: J2000		V=25	Reference Frame: Gemini

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=7; SAMP-SEQ=SPAR S50	POS TARG 1.24118, 0.927626		[==>]	[1]
	2		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 1.24118, 0.927626	Pattern 4, Exps 2-2 in Visit GF (4)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 12558 - Visit RA - Identifying and studying gamma-ray bursts at very high redshifts

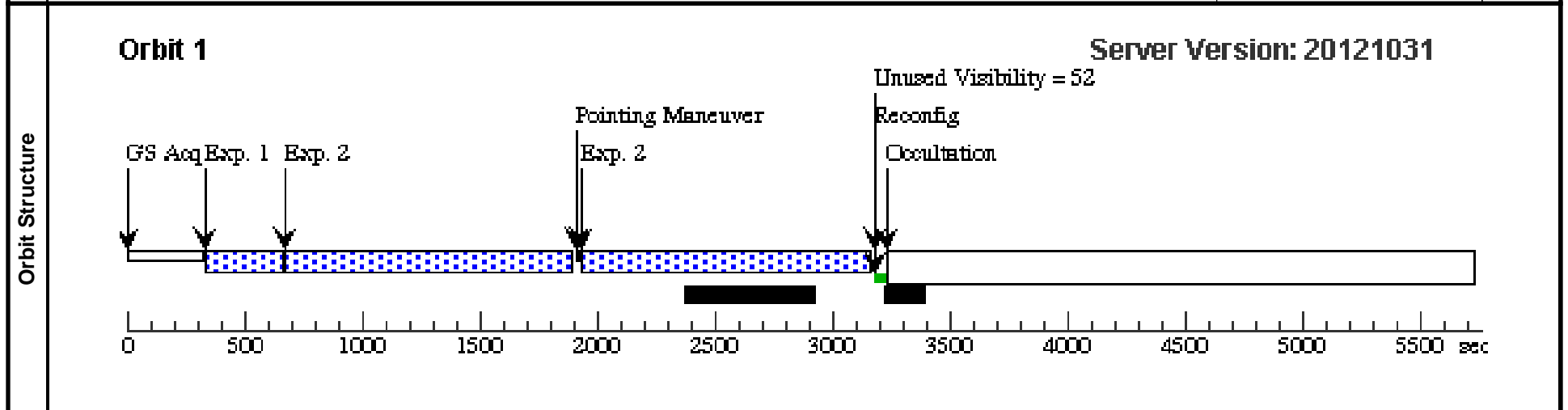
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	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(4)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(2)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	GRB120923A	RA: 20 15 10.7800 (303.7949167d) Dec: +06 13 16.30 (6.22119d) Equinox: J2000		V=25	Reference Frame: Gemini

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=7;	POS TARG 0,0		[==>]	[1]
	2		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13;	POS TARG 0,0	Pattern 4, Exps 2-2 in Visit RA (4)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 12558 - Visit RB - Identifying and studying gamma-ray bursts at very high redshifts

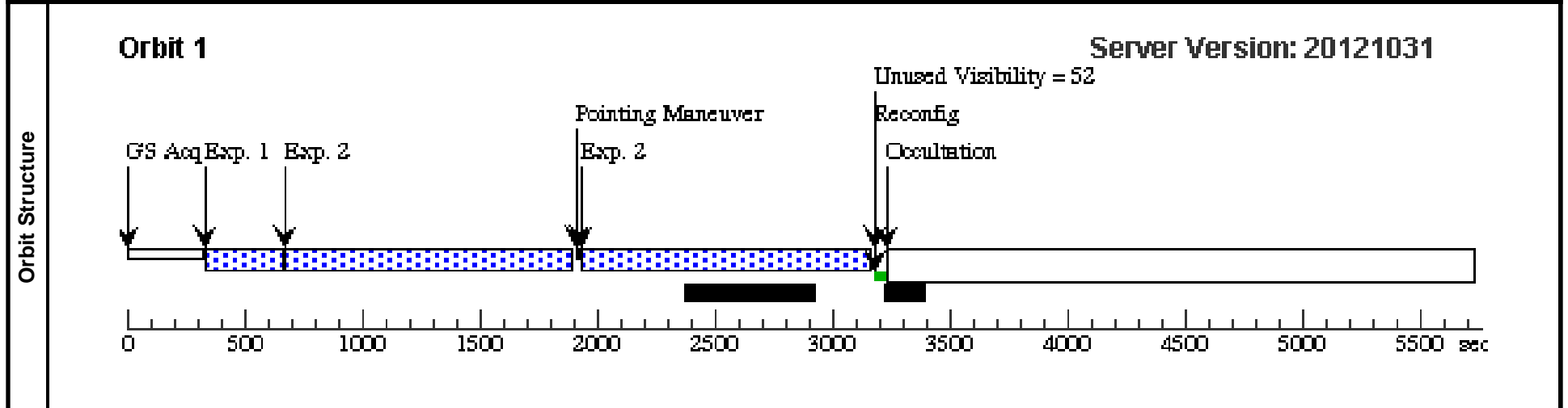
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Visit	Proposal 12558, Visit RB, completed		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(4)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(2)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	GRB120923A	RA: 20 15 10.7800 (303.7949167d) Dec: +06 13 16.30 (6.22119d) Equinox: J2000		V=25	Reference Frame: Gemini

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=7;	POS TARG 0.33875, 0.1211		[==>]	[1]
	2		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13;	POS TARG 0.33875, 0.1211	Pattern 4, Exps 2-2 in Visit RB (4)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 12558 - Visit RC - Identifying and studying gamma-ray bursts at very high redshifts

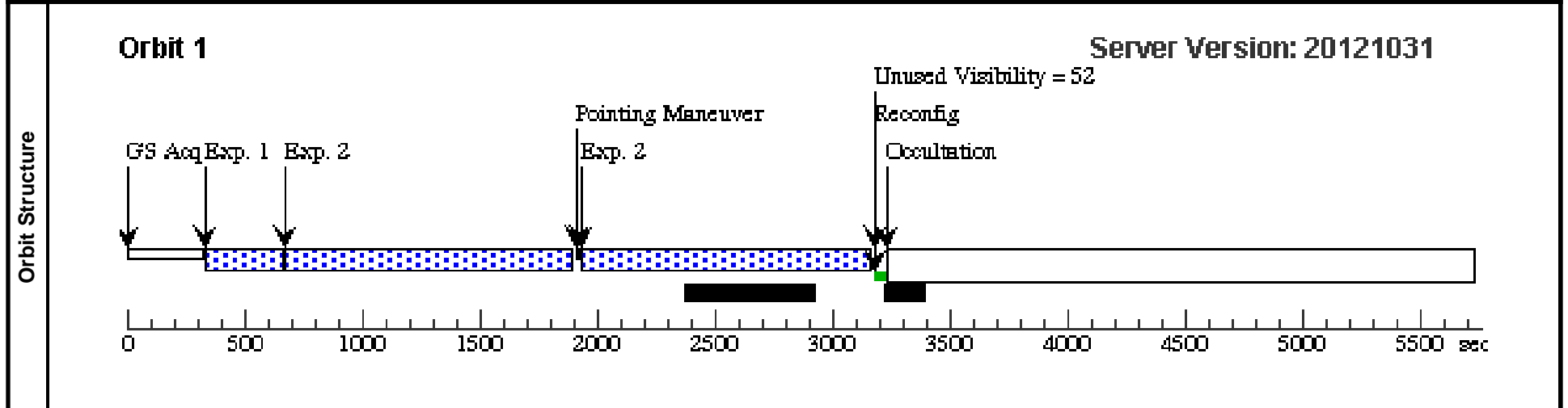
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Visit	Proposal 12558, Visit RC, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 99.5D TO 100.5 D; BEFORE 30-SEP-2012:23:59:00		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(4)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(2)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	GRB120923A	RA: 20 15 10.7800 (303.7949167d) Dec: +06 13 16.30 (6.22119d) Equinox: J2000		V=25	Reference Frame: Gemini

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=7; SAMP-SEQ=SPAR S50	POS TARG 0.45121 5,0.403263		[==>]	[1]
	2		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.45121 5,0.403263	Pattern 4, Exps 2-2 in Visit RC (4)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 12558 - Visit RD - Identifying and studying gamma-ray bursts at very high redshifts

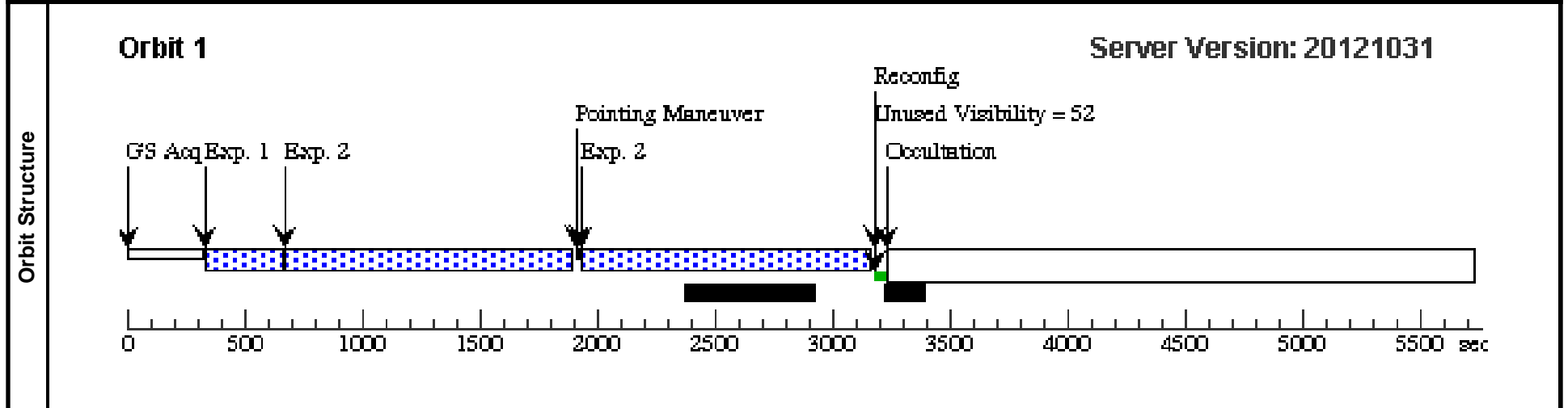
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	GRB120923A	RA: 20 15 10.7800 (303.7949167d) Dec: +06 13 16.30 (6.22119d) Equinox: J2000		V=25	Reference Frame: Gemini

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=7; SAMP-SEQ=SPAR S50	POS TARG 0.78996 5,0.524363		[==>]	[1]
	2		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.78996 5,0.524363	Pattern 4, Exps 2-2 in Visit RD (4)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 12558 - Visit RE - Identifying and studying gamma-ray bursts at very high redshifts

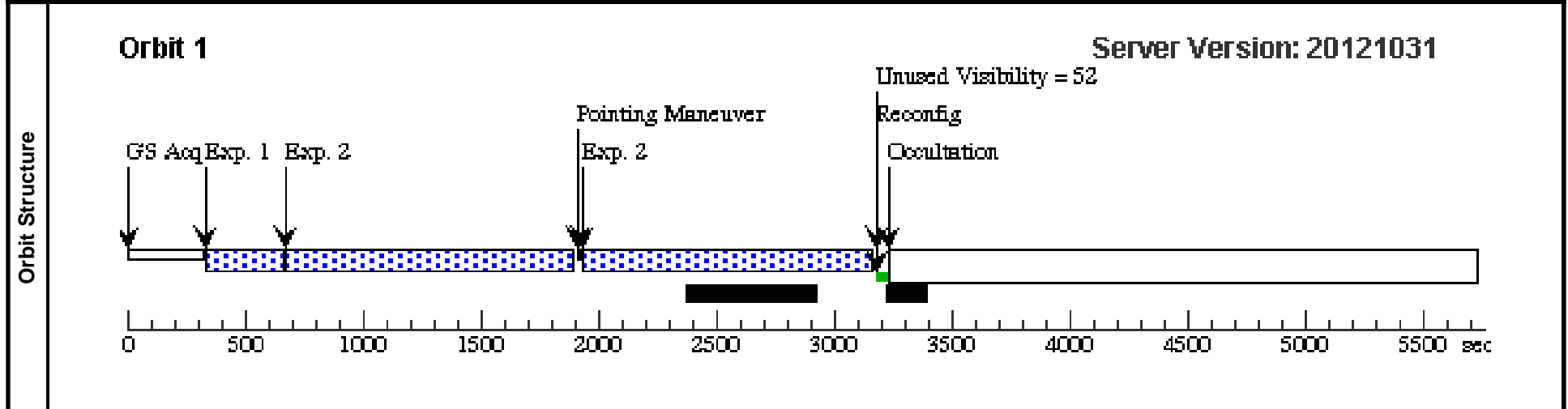
Tue Mar 19 01:03:16 GMT 2013

Visit	Proposal 12558, Visit RE, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 99.5D TO 100.5 D; BEFORE 30-SEP-2012:23:59:00		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(4)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(2)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	GRB120923A	RA: 20 15 10.7800 (303.7949167d) Dec: +06 13 16.30 (6.22119d) Equinox: J2000		V=25	Reference Frame: Gemini

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=7; SAMP-SEQ=SPAR S50	POS TARG 0.90243, 0.806526		[==>]	[1]
	2		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.90243, 0.806526	Pattern 4, Exps 2-2 in Visit RE (4)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 12558 - Visit RF - Identifying and studying gamma-ray bursts at very high redshifts

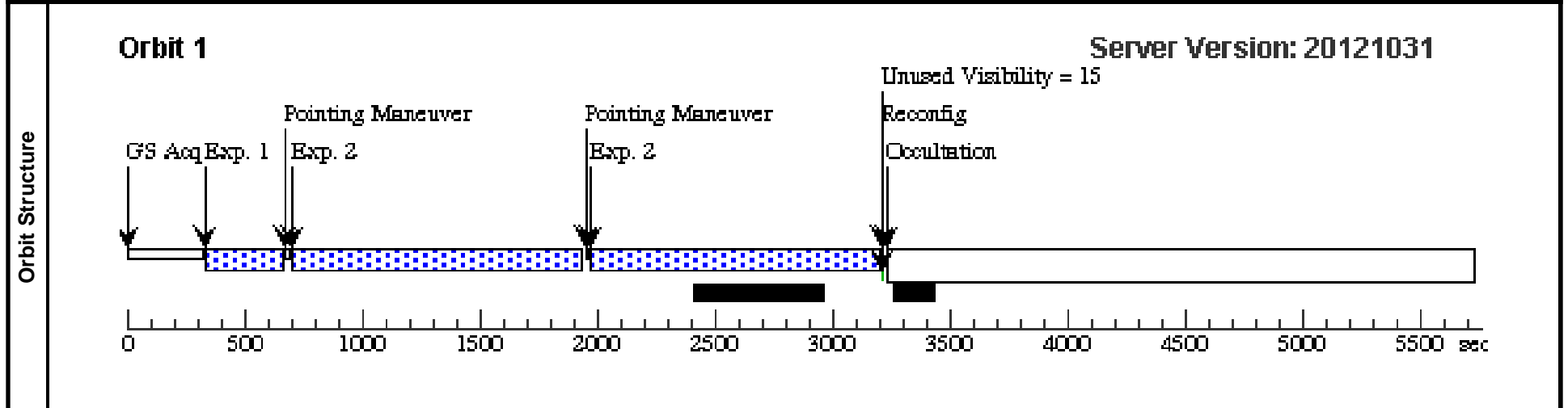
Tue Mar 19 01:03:17 GMT 2013

Visit	Proposal 12558, Visit RF, completed		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: ORIENT 99.5D TO 100.5 D; BEFORE 30-SEP-2012:23:59:00		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(4)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(2)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	GRB120923A	RA: 20 15 10.7800 (303.7949167d) Dec: +06 13 16.30 (6.22119d) Equinox: J2000		V=25	Reference Frame: Gemini

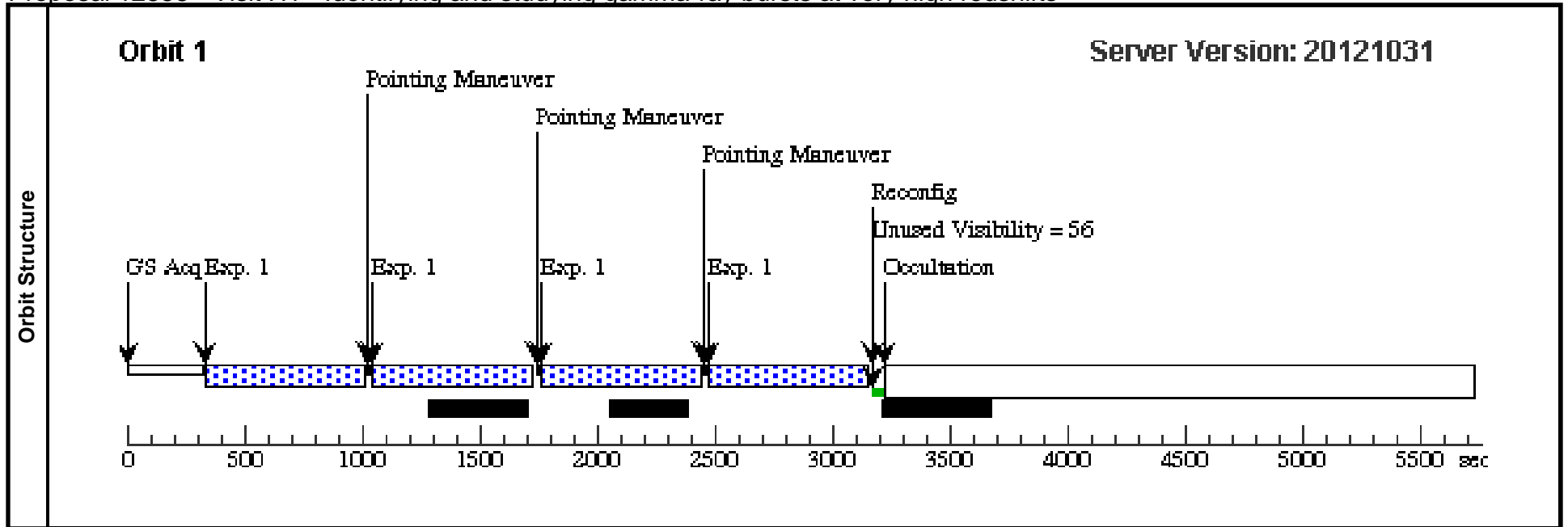
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) GRB120923A	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=7; SAMP-SEQ=SPAR S50	POS TARG 1.24118, 0.927626		[==>]	[1]
	2		(4) GRB120923A	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 1.24118, 0.927626	Pattern 4, Exps 2-2 i n Visit RF (4)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 12558 - Visit H1 - Identifying and studying gamma-ray bursts at very high redshifts

Tue Mar 19 01:03:17 GMT 2013

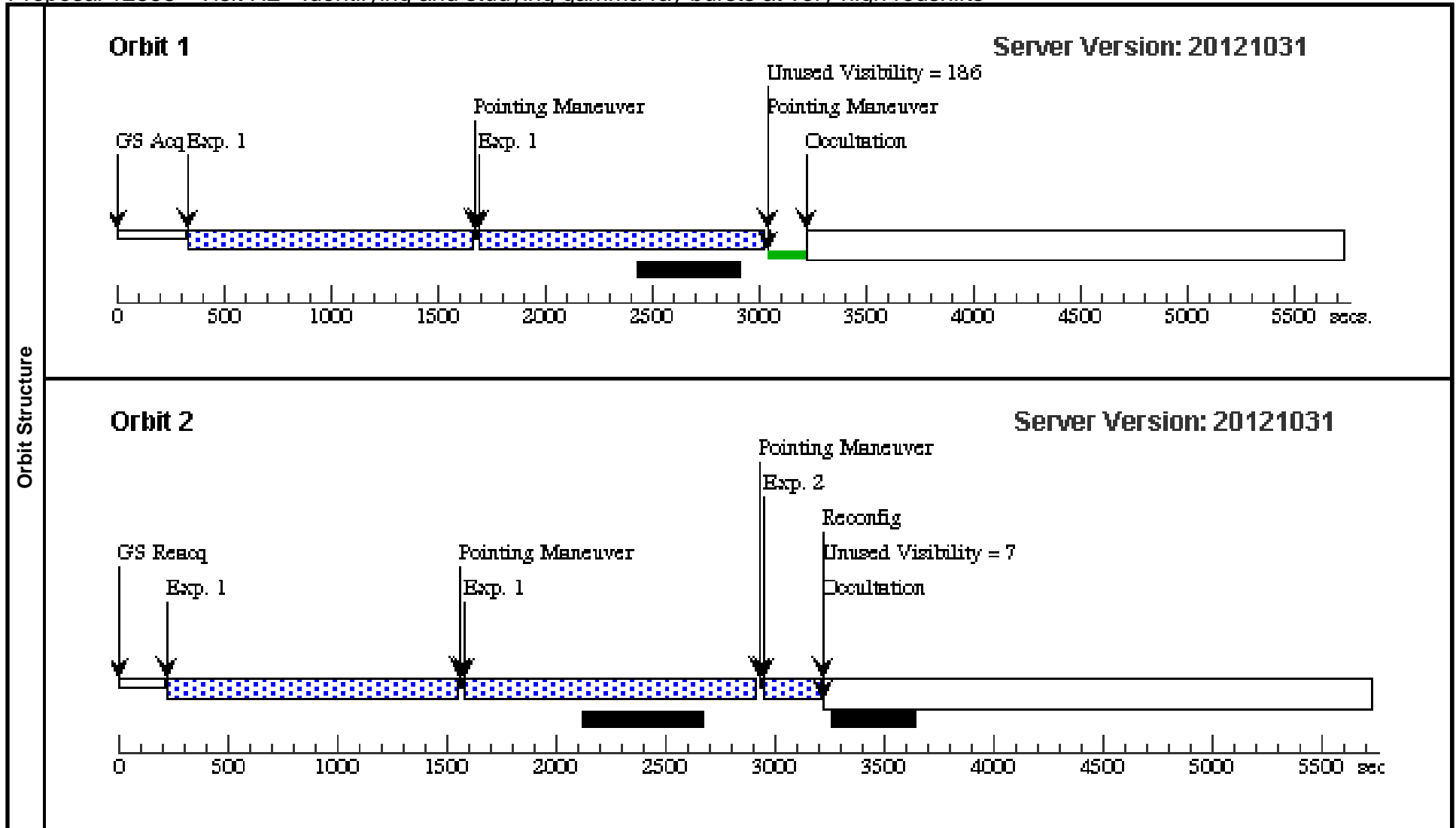
Visit	Proposal 12558, Visit H1, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD <i>Comments: F160W, 1 orbit, 4 point dither</i> <i>On Hold Comments: Awaiting GRB trigger</i>									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
(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)	
Generic Targets	#	Name	Criteria	Description						
	(3)	GRB-IMAGING-TARGET	GRB at z>6							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) GRB-IMAGING-TARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=14; SAMP-SEQ=SPAR S50		Pattern 1, Exps 1-1 in Visit H1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12558 - Visit H2 - Identifying and studying gamma-ray bursts at very high redshifts

Tue Mar 19 01:03:18 GMT 2013

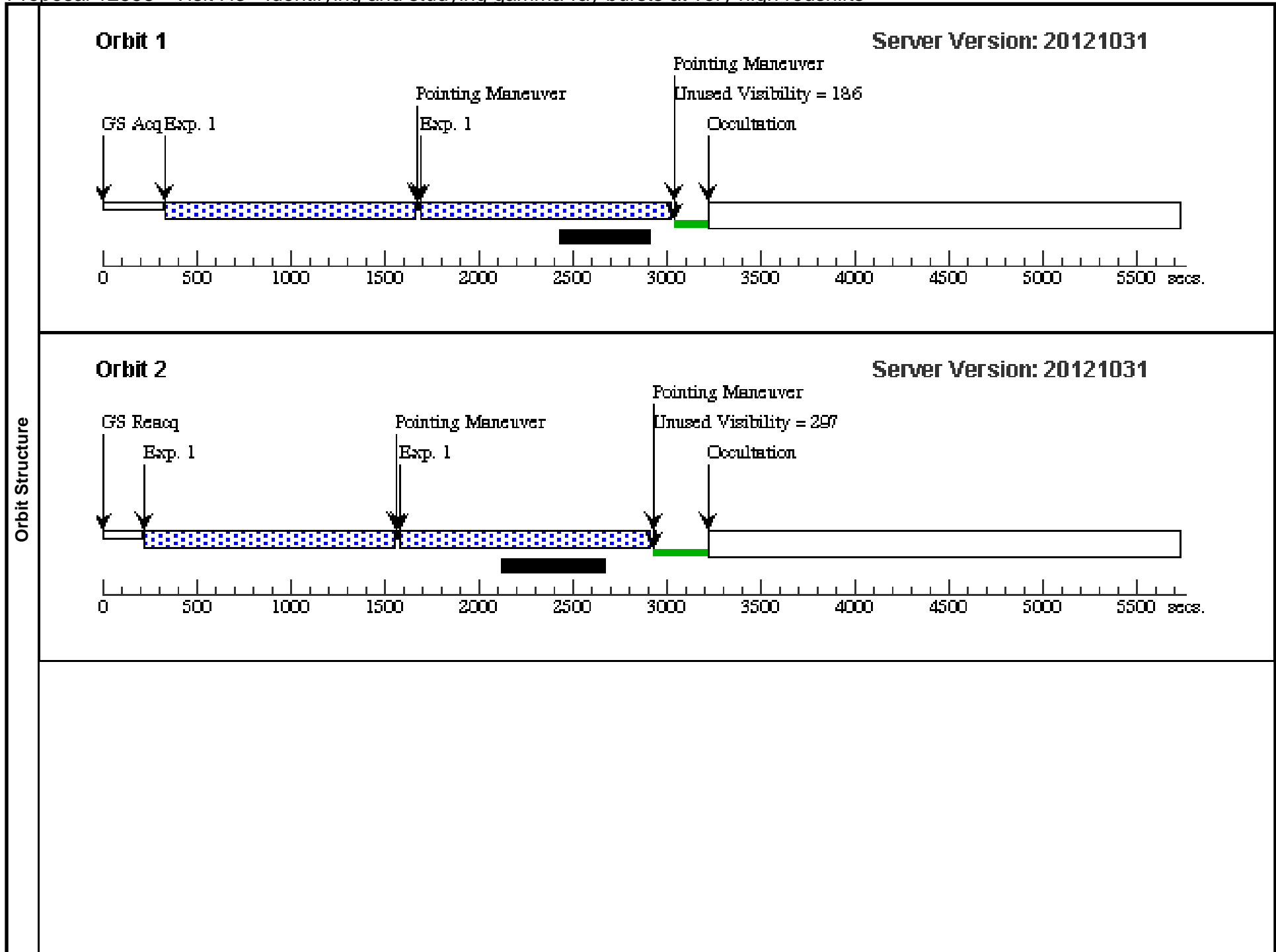
Visit	Proposal 12558, Visit H2, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD <i>Comments: F160W, 2 orbit, 4 point dither</i> <i>On Hold Comments: Awaiting GRB trigger</i>									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
(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)	
Generic Targets	#	Name	Criteria	Description						
	(3)	GRB-IMAGING-TARGET	GRB at z>6							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(3) GRB-IMAGING-TARGET	(3) GRB-IMAGING-TARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=14; SAMP-SEQ=SPAR S100		Pattern 1, Exps 1-1 in Visit H2 (1)	[==>(Pattern 1)]	[1]
									[==>(Pattern 2)]	[2]
									[==>(Pattern 3)]	[2]
2	(3) GRB-IMAGING-TARGET	(3) GRB-IMAGING-TARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=SPAR S25				[==>]	[2]
									[==>(Pattern 4)]	[2]



Proposal 12558 - Visit H3 - Identifying and studying gamma-ray bursts at very high redshifts

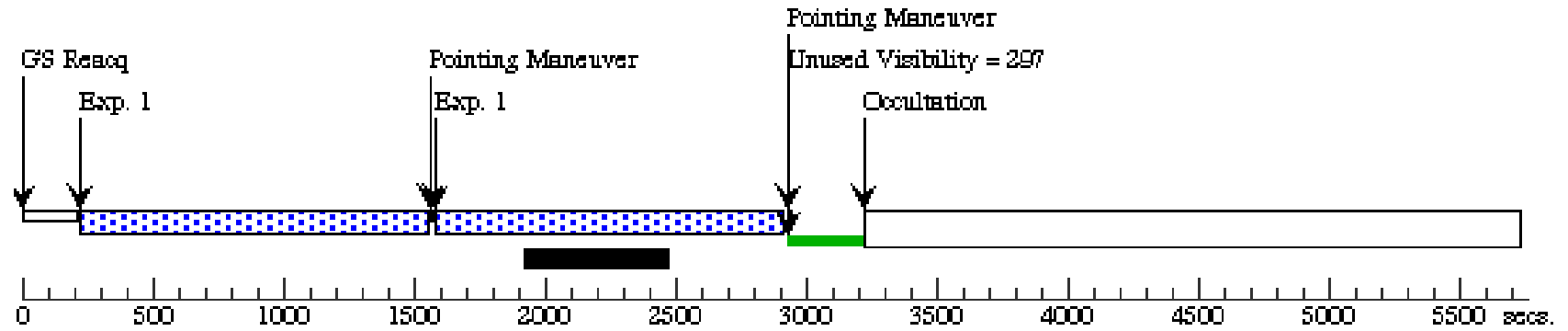
Tue Mar 19 01:03:20 GMT 2013

Visit	Proposal 12558, Visit H3, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD Comments: 4 orbit F160W, 8 point dither On Hold Comments: Awaiting high-z GRB trigger									
	Patterns	#	Primary Pattern				Secondary Pattern			
(2)		Pattern Type=BOX 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	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1)				
Generic Targets	#	Name	Criteria	Description						
	(3)	GRB-IMAGING-TARGET	GRB at z>6							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(3) GRB-IMAGING-TARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=14; SAMP-SEQ=SPAR S100		Pattern 2, Exps 1-1 i n Visit H3 (2)	[==>(Pattern 1,1)] [==>(Pattern 1,2)]	[1]	
								[==>(Pattern 2,1)] [==>(Pattern 2,2)]	[2]	
								[==>(Pattern 3,1)] [==>(Pattern 3,2)]	[3]	
								[==>(Pattern 4,1)] [==>(Pattern 4,2)]	[4]	



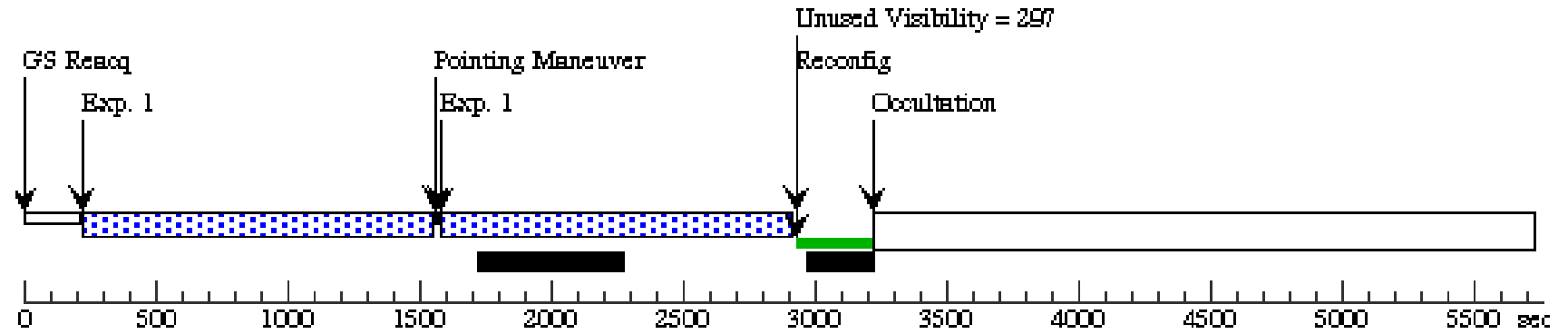
Orbit 3

Server Version: 20121031



Orbit 4

Server Version: 20121031



Proposal 12558 - Visit F1 - Identifying and studying gamma-ray bursts at very high redshifts

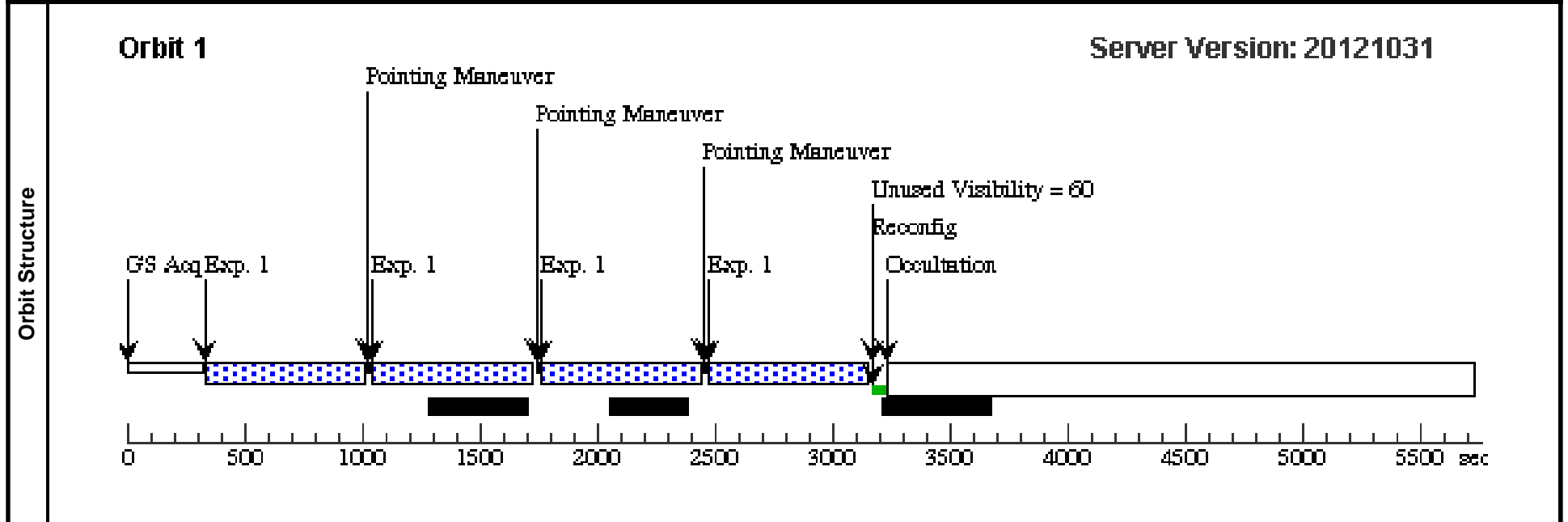
Tue Mar 19 01:03:23 GMT 2013

Visit	Proposal 12558, Visit F1, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 91D TO 93 D; BETWEEN 06-OCT-2012:00:00:00 AND 15-OCT-2012:00:00:00 <i>Comments: F140W, 1 orbit, 4 point dither</i>		

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)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	GRB120923A	RA: 20 15 10.7800 (303.7949167d) Dec: +06 13 16.30 (6.22119d) Equinox: J2000		V=25	Reference Frame: Gemini

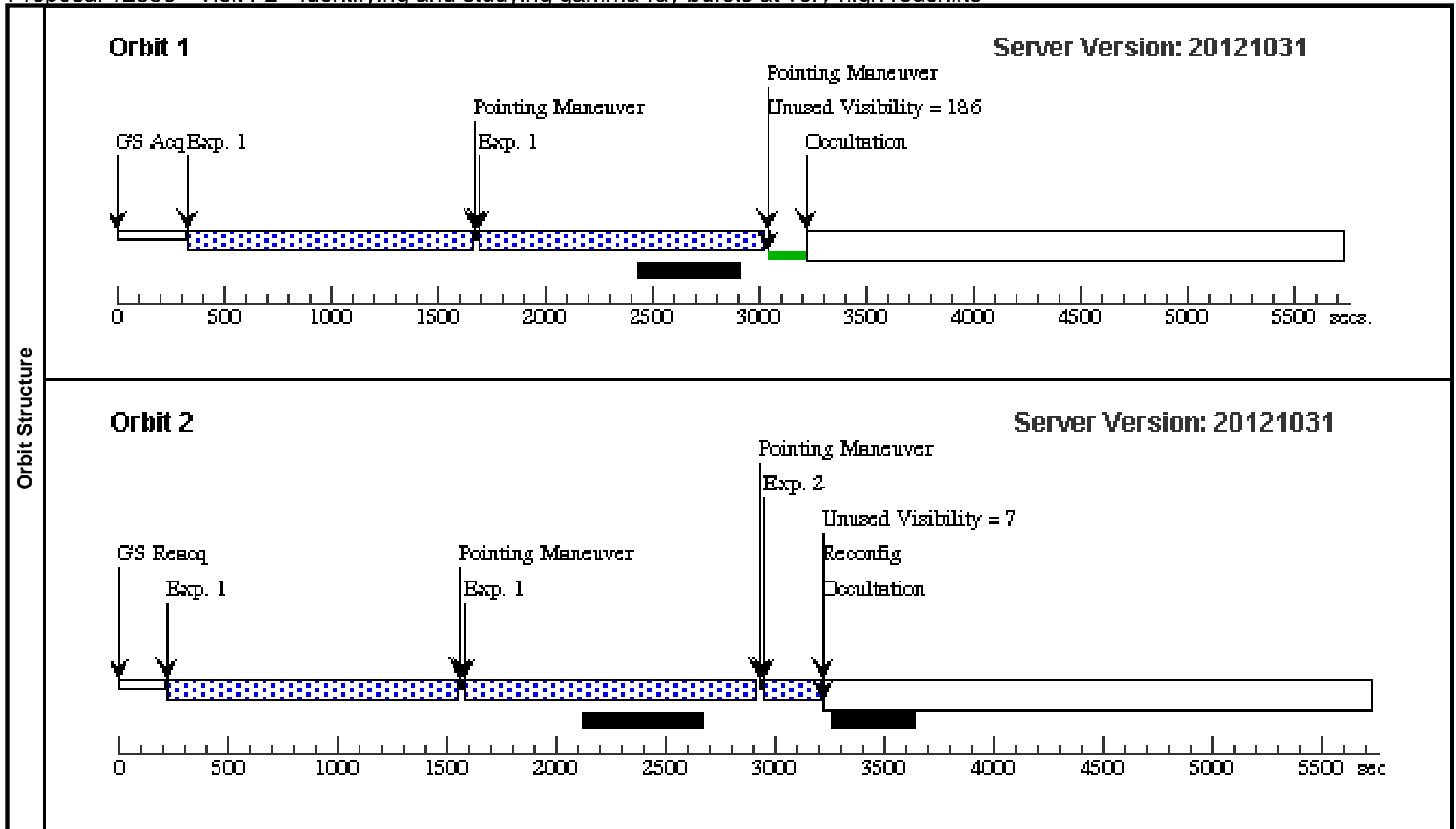
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) GRB120923A	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50		Pattern 1, Exps 1-1 in Visit F1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 12558 - Visit F2 - Identifying and studying gamma-ray bursts at very high redshifts

Tue Mar 19 01:03:24 GMT 2013

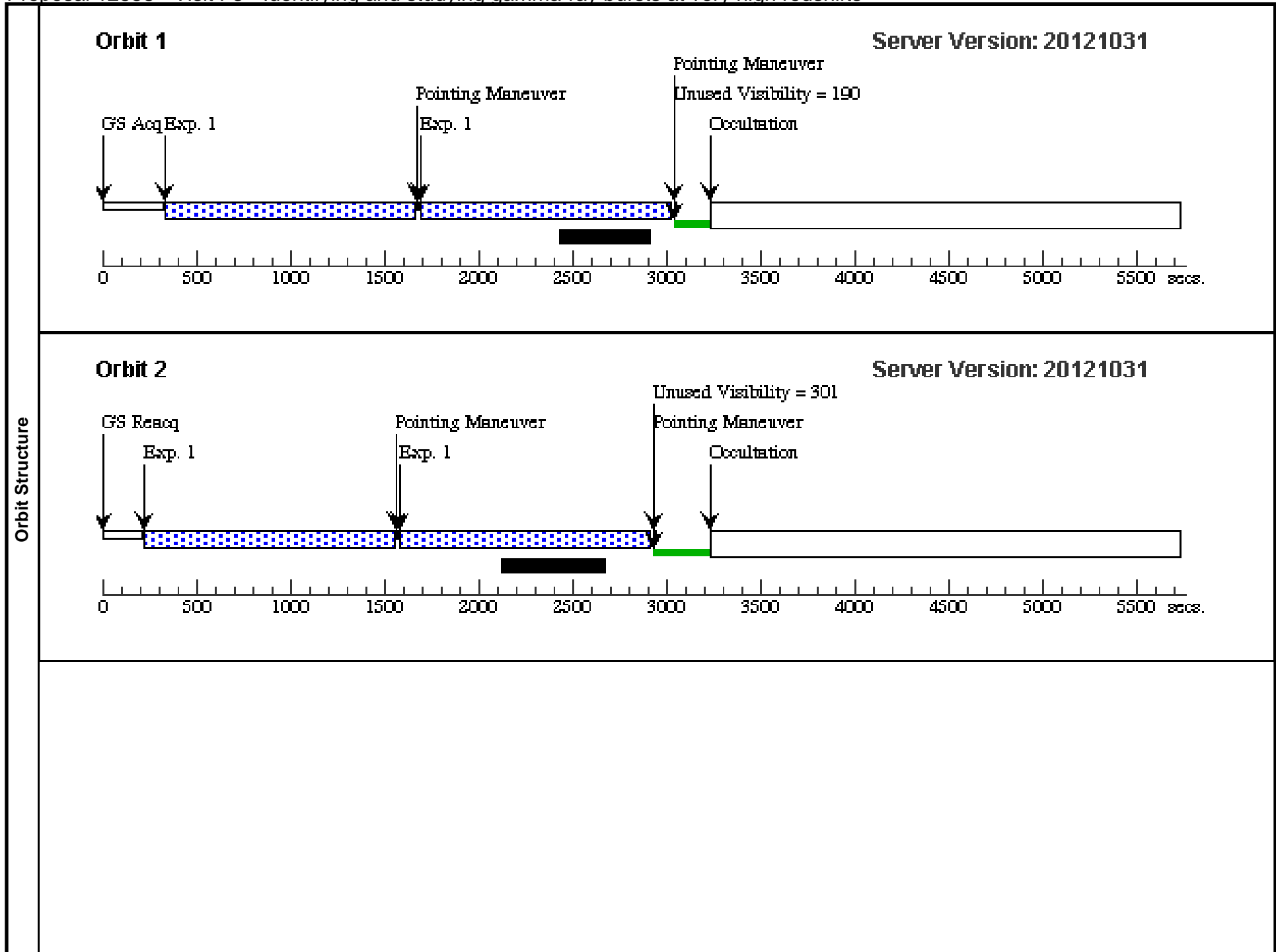
Visit	Proposal 12558, Visit F2, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD Comments: F140W, 2 orbit, 4 point dither On Hold Comments: Awaiting GRB trigger									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
(1)		Pattern 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)
Generic Targets	#	Name	Criteria	Description						
	(3)	GRB-IMAGING-TARGET	GRB at z>6							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) GRB-IMAGING-TARGET	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S100		Pattern 1, Exps 1-1 in Visit F2 (1)	[==>(Pattern 1)]	[1]
									[==>(Pattern 2)]	[2]
									[==>(Pattern 3)]	[2]
2		(3) GRB-IMAGING-TARGET	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=10; SAMP-SEQ=SPAR S25			[==>]	[2]	

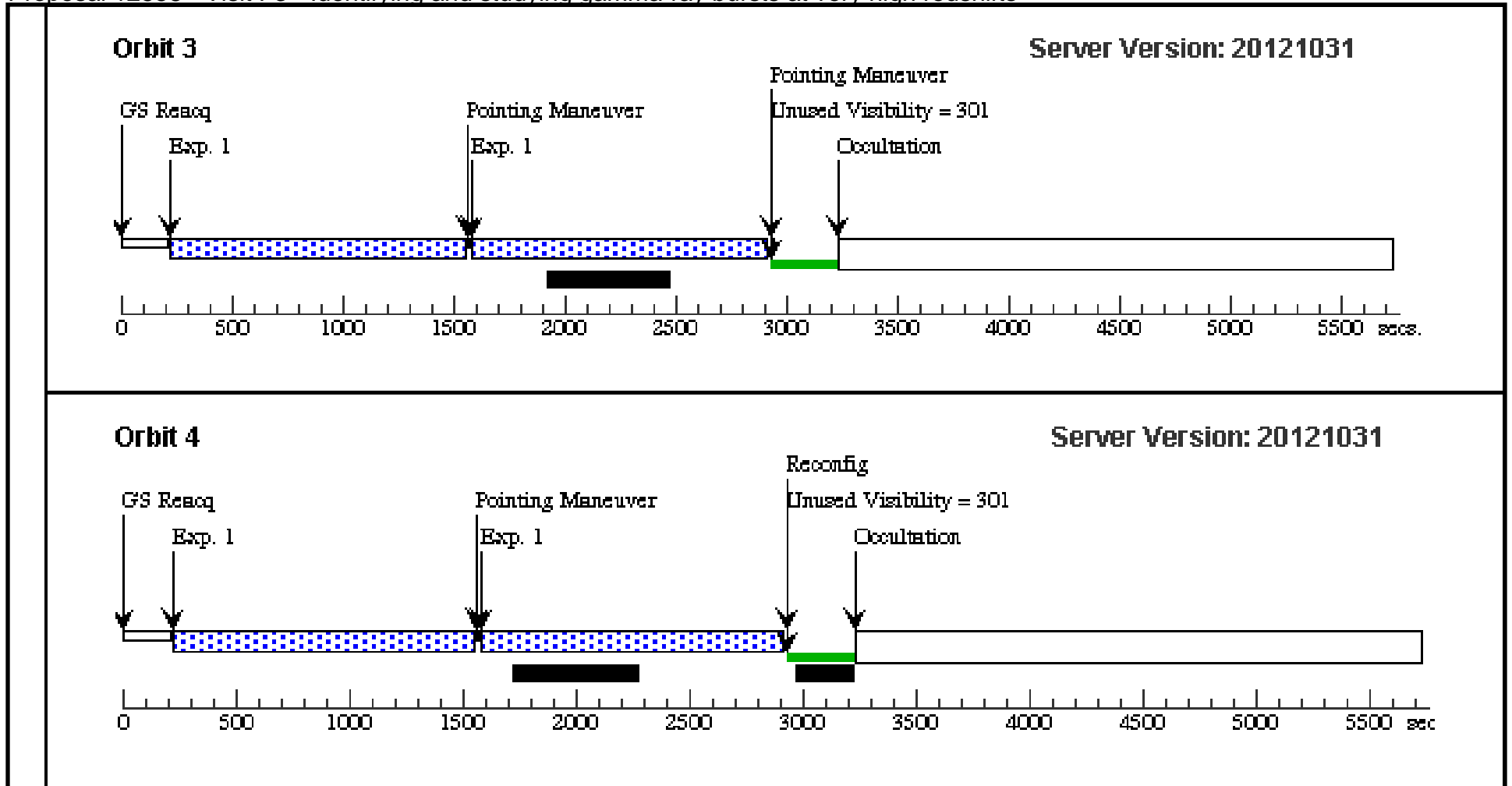


Proposal 12558 - Visit F3 - Identifying and studying gamma-ray bursts at very high redshifts

Tue Mar 19 01:03:25 GMT 2013

Visit	Proposal 12558, Visit F3, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 70D TO 110 D; ORIENT 250D TO 290 D <i>Comments: 4 orbit F140W, 8 point dither</i>									
	Patterns	#	Primary Pattern				Secondary Pattern			
(2)		Pattern Type=BOX 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	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	GRB120923A	RA: 20 15 10.7800 (303.7949167d) Dec: +06 13 16.30 (6.22119d) Equinox: J2000		V=25	Reference Frame: Gemini				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(4) GRB120923A	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S100			Pattern 2, Exps 1-1 i n Visit F3 (2)	[==>(Pattern 1,1)]	[1]
									[==>(Pattern 1,2)]	[2]
									[==>(Pattern 2,1)]	[3]
									[==>(Pattern 2,2)]	[4]
									[==>(Pattern 3,1)]	[5]
									[==>(Pattern 3,2)]	[6]
								[==>(Pattern 4,1)]	[7]	
								[==>(Pattern 4,2)]	[8]	





Proposal 12558 - Visit J1 - Identifying and studying gamma-ray bursts at very high redshifts

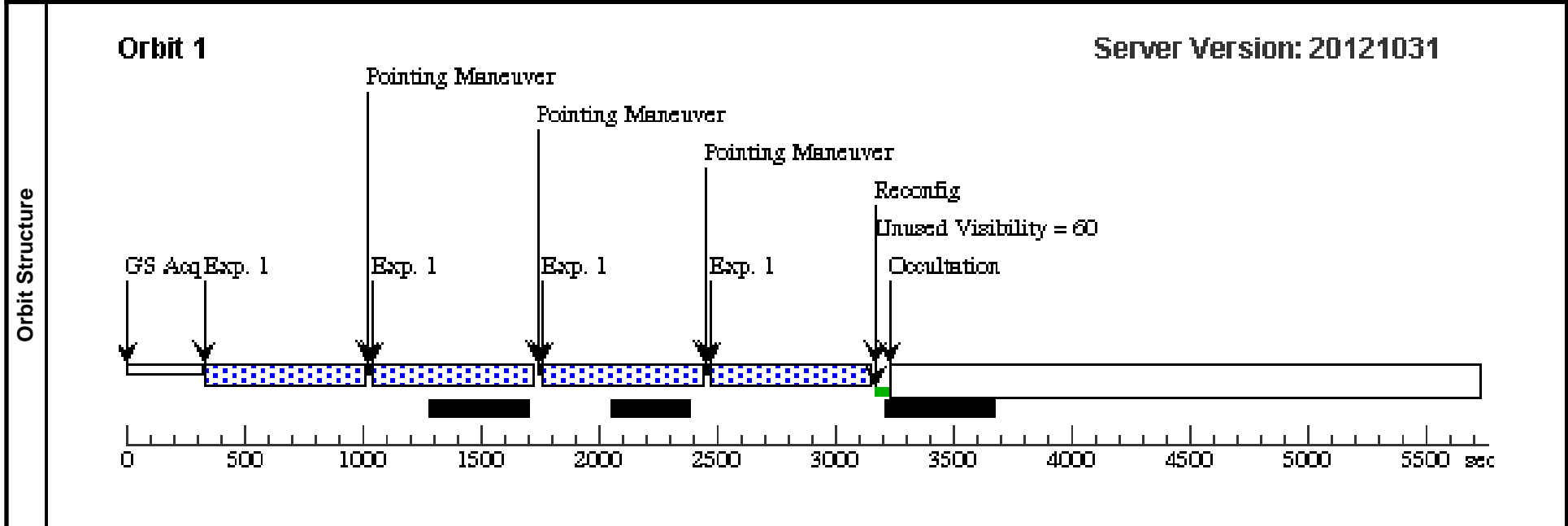
Tue Mar 19 01:03:28 GMT 2013

Visit	Proposal 12558, Visit J1, withdrawn		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: BEFORE 30-SEP-2012:23:59:00; ON HOLD		
	Comments: F125W, 1 orbit, 4 point dither On Hold Comments: Awaiting trigger		

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	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	GRB120923A	RA: 20 15 10.7800 (303.7949167d) Dec: +06 13 16.30 (6.22119d) Equinox: J2000			V=25

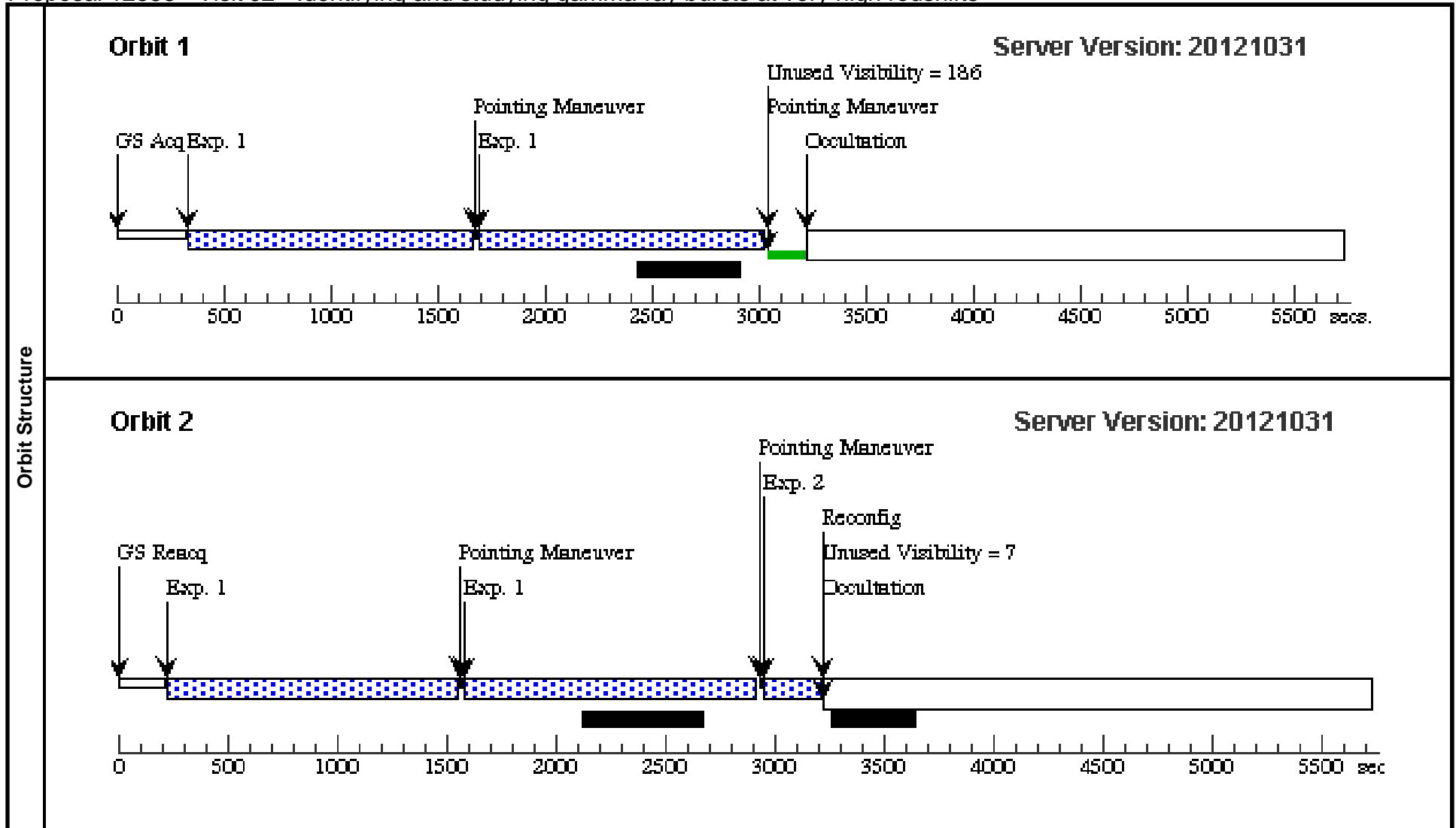
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) GRB120923A	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=14; SAMP-SEQ=SPAR S50			Pattern 1, Exps 1-1 in Visit J1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]



Proposal 12558 - Visit J2 - Identifying and studying gamma-ray bursts at very high redshifts

Tue Mar 19 01:03:29 GMT 2013

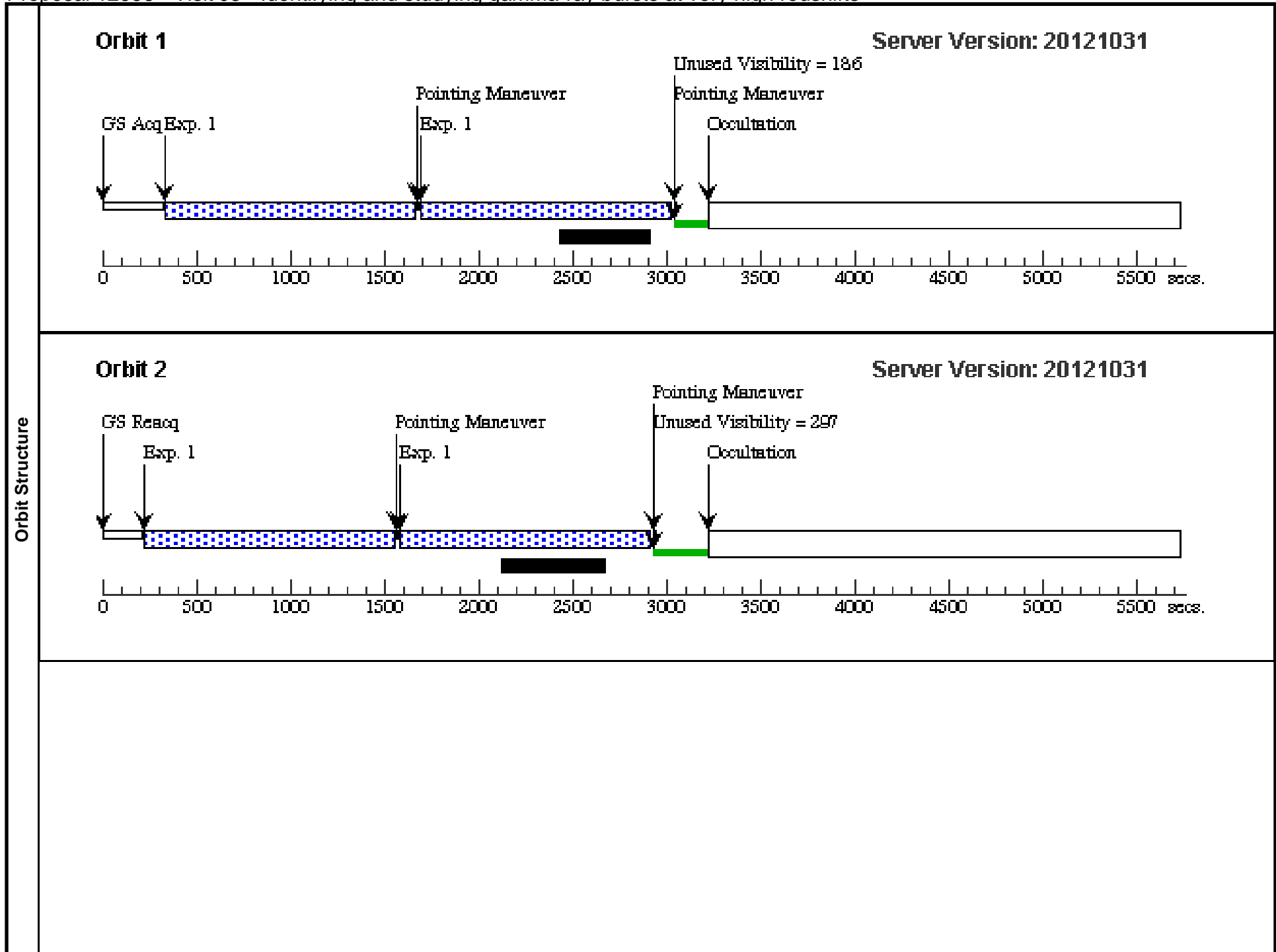
Visit	Proposal 12558, Visit J2, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD <i>Comments: F125W, 2 orbit, 4 point dither</i> <i>On Hold Comments: Awaiting GRB trigger</i>									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
(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)	
Generic Targets	#	Name	Criteria	Description						
	(3)	GRB-IMAGING-TARGET	GRB at z>6							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) GRB-IMAGING-TARGET	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=14; SAMP-SEQ=SPAR S100		Pattern 1, Exps 1-1 in Visit J2 (1)	[==>(Pattern 1)]	[1]
									[==>(Pattern 2)]	[2]
									[==>(Pattern 3)]	[2]
2		(3) GRB-IMAGING-TARGET	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=10; SAMP-SEQ=SPAR S25			[==>]	[2]	



Proposal 12558 - Visit J3 - Identifying and studying gamma-ray bursts at very high redshifts

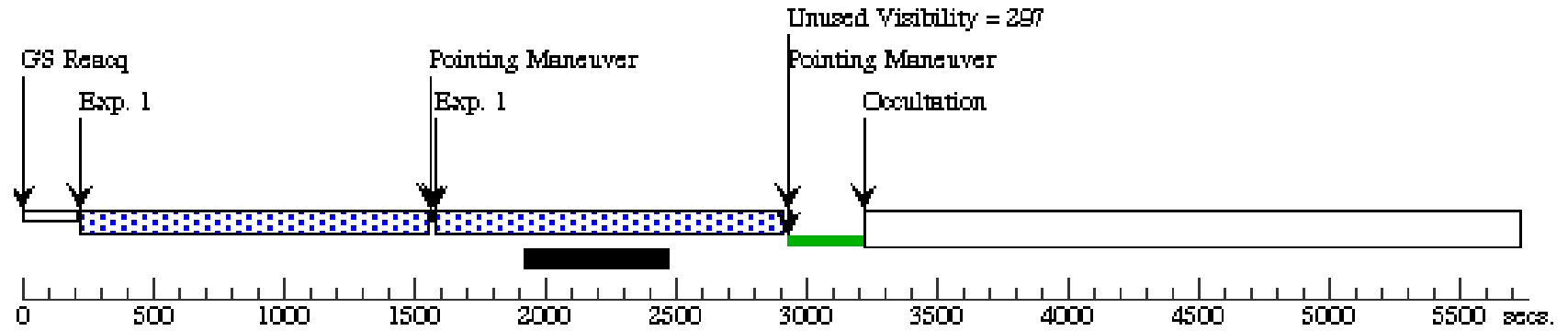
Tue Mar 19 01:03:31 GMT 2013

Visit	Proposal 12558, Visit J3, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD <i>Comments: 4 orbit F125W, 8 point dither</i> <i>On Hold Comments: Awaiting high-z GRB trigger</i>										
	Patterns	#	Primary Pattern				Secondary Pattern				Exposures
(2)		Pattern Type=BOX 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	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1)					
Generic Targets	#	Name	Criteria			Description					
	(3)	GRB-IMAGING-TARGET	GRB at z>6								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(3) GRB-IMAGING-TARGET	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=14; SAMP-SEQ=SPAR S100		Pattern 2, Exps 1-1 in Visit J3 (2)	[==>(Pattern 1,1)]		[1]
									[==>(Pattern 1,2)]		
									[==>(Pattern 2,1)]		[2]
									[==>(Pattern 2,2)]		
									[==>(Pattern 3,1)]		[3]
									[==>(Pattern 3,2)]		
									[==>(Pattern 4,1)]		[4]
								[==>(Pattern 4,2)]			



Orbit 3

Server Version: 20121031



Orbit 4

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