



10909 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

Cycle: 15, Proposal Category: GO

(Availability Mode: AVAILABLE)

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>
A1	(1) GRB-SN1	ACS/HRC	1	21-May-2007 20:53:48.0	yes
A2	(1) GRB-SN1	ACS/WFC	1	21-May-2007 20:53:57.0	yes
A3	(1) GRB-SN1	NIC3	1	21-May-2007 20:54:07.0	yes

Proposal 10909 (STScI Edit Number: 0, Created: Monday, May 21, 2007 2:57:53 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>
B1	(1) GRB-SN1	ACS/HRC	1	21-May-2007 20:54:14.0	yes
B2	(1) GRB-SN1	ACS/WFC	1	21-May-2007 20:54:29.0	yes
B3	(1) GRB-SN1	NIC3	1	21-May-2007 20:54:37.0	yes
C1	(1) GRB-SN1	ACS/HRC	1	21-May-2007 20:54:43.0	yes
C2	(1) GRB-SN1	ACS/WFC	1	21-May-2007 20:54:50.0	yes
C3	(1) GRB-SN1	NIC3	2	21-May-2007 20:54:59.0	yes
D2	(1) GRB-SN1	ACS/WFC	1	21-May-2007 20:55:06.0	yes
E2	(1) GRB-SN1	ACS/WFC	1	21-May-2007 20:55:11.0	yes
F1	(1) GRB-SN1	ACS/HRC	2	21-May-2007 20:55:21.0	yes
F2	(1) GRB-SN1	ACS/WFC	2	21-May-2007 20:55:32.0	yes
F3	(1) GRB-SN1	NIC3	2	21-May-2007 20:55:42.0	yes
M1	(2) GRB060729	ACS/HRC	1	21-May-2007 20:55:49.0	yes
M2	(2) GRB060729	ACS/WFC	1	21-May-2007 20:55:55.0	yes
M3	(2) GRB060729	NIC3	1	21-May-2007 20:56:04.0	yes
N1	(2) GRB060729	ACS/HRC	1	21-May-2007 20:56:19.0	yes
N2	(2) GRB060729	ACS/WFC	1	21-May-2007 20:56:25.0	yes
N3	(2) GRB060729	NIC3	1	21-May-2007 20:56:34.0	yes
O1	(2) GRB060729	ACS/HRC	1	21-May-2007 20:56:41.0	yes
O2	(2) GRB060729	ACS/WFC	1	21-May-2007 20:56:47.0	yes
O3	(2) GRB060729	NIC3	2	21-May-2007 20:56:56.0	yes
P2	(2) GRB060729	ACS/WFC	1	21-May-2007 20:57:03.0	yes
Q2	(2) GRB060729	ACS/WFC	1	21-May-2007 20:57:09.0	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>
R1	(2) GRB060729	WFPC2	6	21-May-2007 20:57:23.0	yes
R2	(2) GRB060729	WFPC2	6	21-May-2007 20:57:39.0	yes
R3	(2) GRB060729	NIC3	2	21-May-2007 20:57:51.0	yes

44 Total Orbits Used

ABSTRACT

While the connection between gamma-ray bursts (GRBs) and supernovae (SNe) is now clearly established, there is a large variety of observational properties among these SNe and the physical parameters of these explosions are poorly known. As part of a comprehensive program, we propose to use HST in order to obtain basic information about the supernovae associated with gamma-ray bursts. HST offers the means to cleanly separate the light curves of the GRB afterglow from the supernova, and to remove the contamination from the host galaxy, opening a clear route to the fundamental parameters of the SN. From these observations, we will determine the absolute magnitude at maximum, the shape of the spectral energy distribution, and any change over time of the energy distribution. We will also measure the rate of decay of the exponential tail.

Merged with the ground-based data that we will obtain for each event, we will be able to compare our data set to models and constrain the energy of the explosion, the mass of the ejecta and the mass of Nickel synthesized during the explosion. These results will shed light on the apparent variety of supernovae associated with gamma-ray bursts and X-ray flashes, and on the relation between these SNe and other, more common varieties of core-collapse explosions.

OBSERVING DESCRIPTION

We want to observe two supernovae associated with a gamma-ray bursts. For each GRB fitting our redshift criterion, we will trigger a series of HST observations. The first set of observations will consist of UV, optical and near-IR data (ACS/HRC, ACS/WFC, NIC), obtained 7-9 days after burst. The second and third observations will also consist of UV, optical and near-IR data, obtained at 15-18 days, and 24-30 days after burst respectively. Late observations, at 50 and 150 days after burst will also be obtained in the optical to monitor the exponential part of the light curve. Very late time

images will be obtained in all filters about one year after the burst. This will provide a template for accurate subtraction of the host galaxy. In all observations, the exact filters used will depend on the redshift of the GRB.

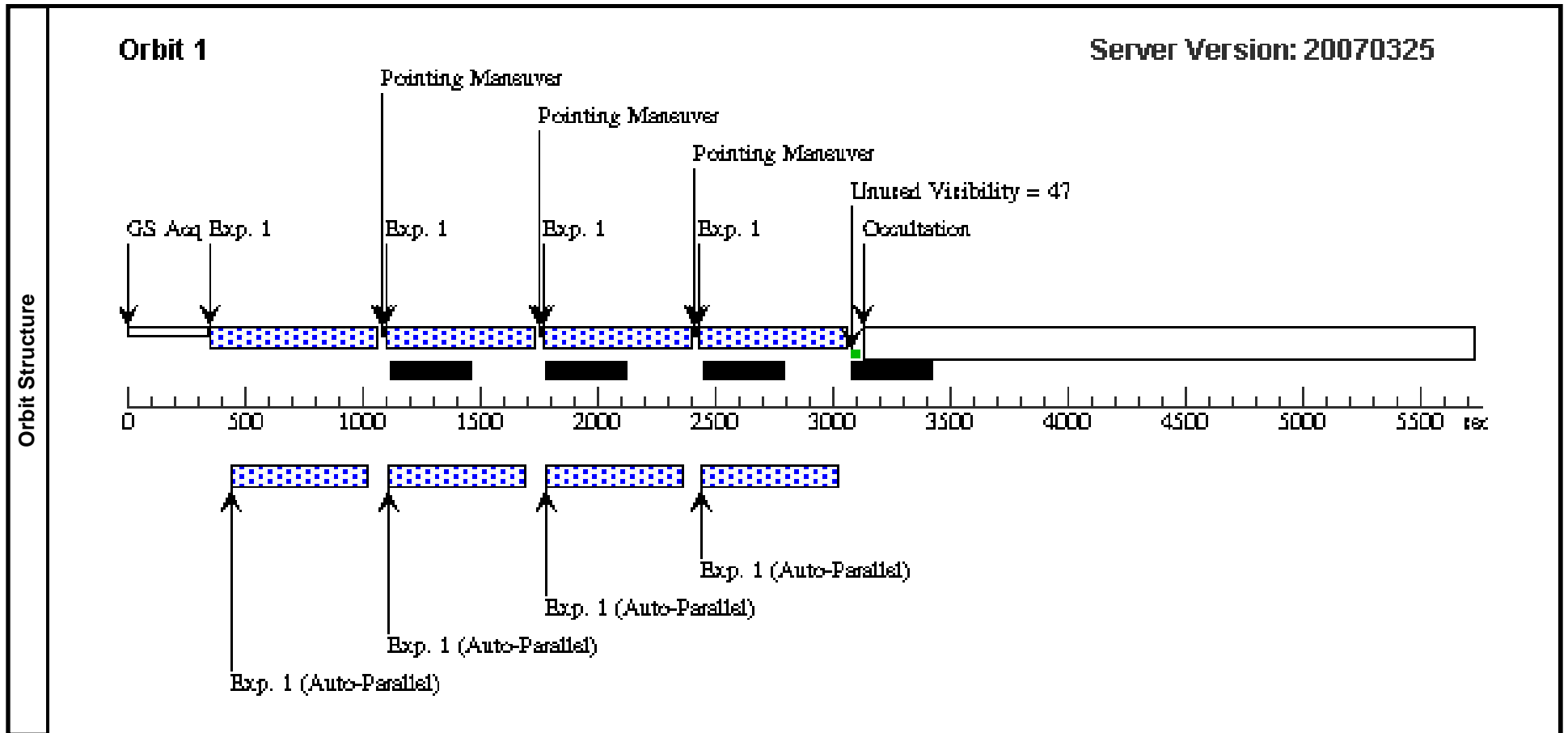
ADDITIONAL COMMENTS

Target of Opportunity observations. We request a 7 day turnaround time.

Proposal 10909 - Visit A1 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

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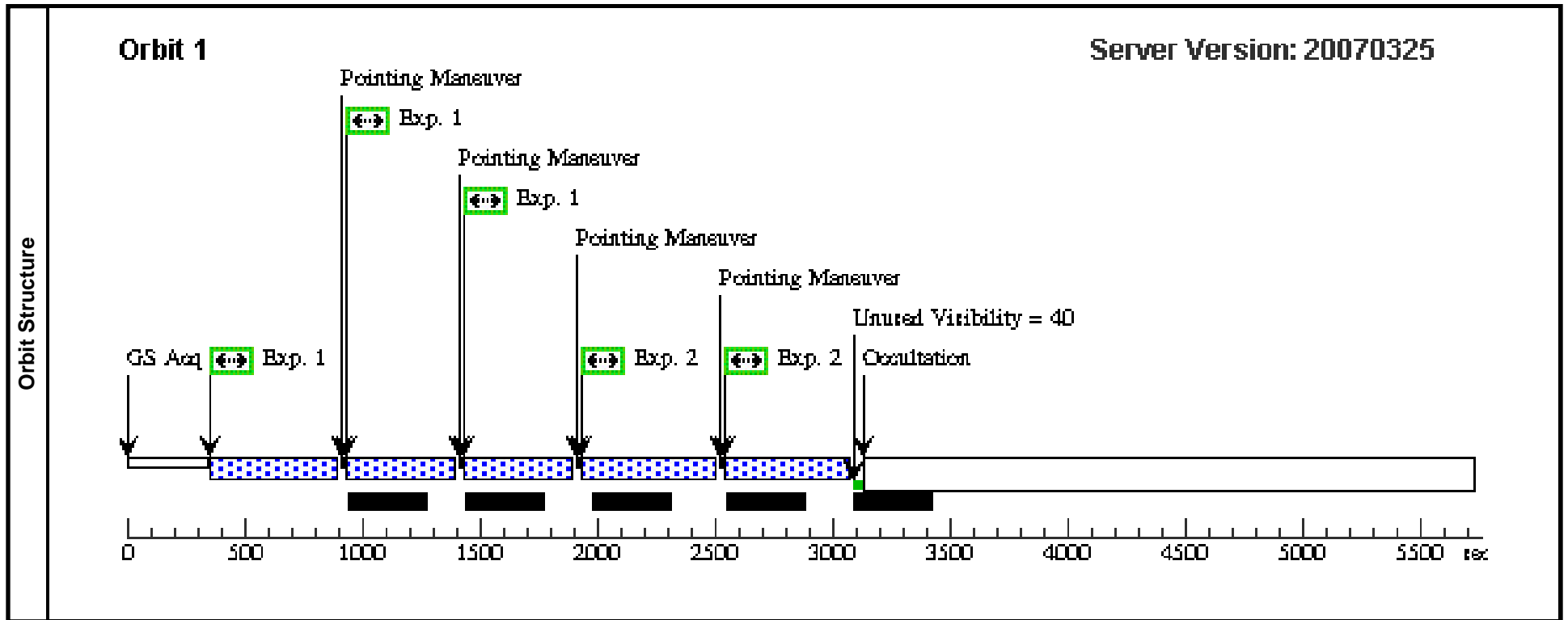
Visit	Proposal 10909, Visit A1, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: GROUP A1,A2,A3 WITHIN 24.0H Comments: <i>First epoch ACS/HRC observation of SN1</i>									
	Patterns	#	Primary Pattern				Secondary Pattern			
(3)		Pattern Type=ACS-HRC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.15 Line Spacing=0.098	Coordinate Frame=POS-TARG Pattern Orientation=19.89 Angle Between Sides=63.5 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(1)	GRB-SN1	RA: 00 00 0.0000 (.0000000d) Dec: +00 00 0.00 (.00000d) Equinox: J2000	Redshift: 0.54		V=22.0+/-2.0		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	UV/1	(1) GRB-SN1	ACS/HRC, ACCUM, HRC	F250W	CR-SPLIT=NO		Pattern 1-1 (3)	600.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 10909 - Visit A2 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

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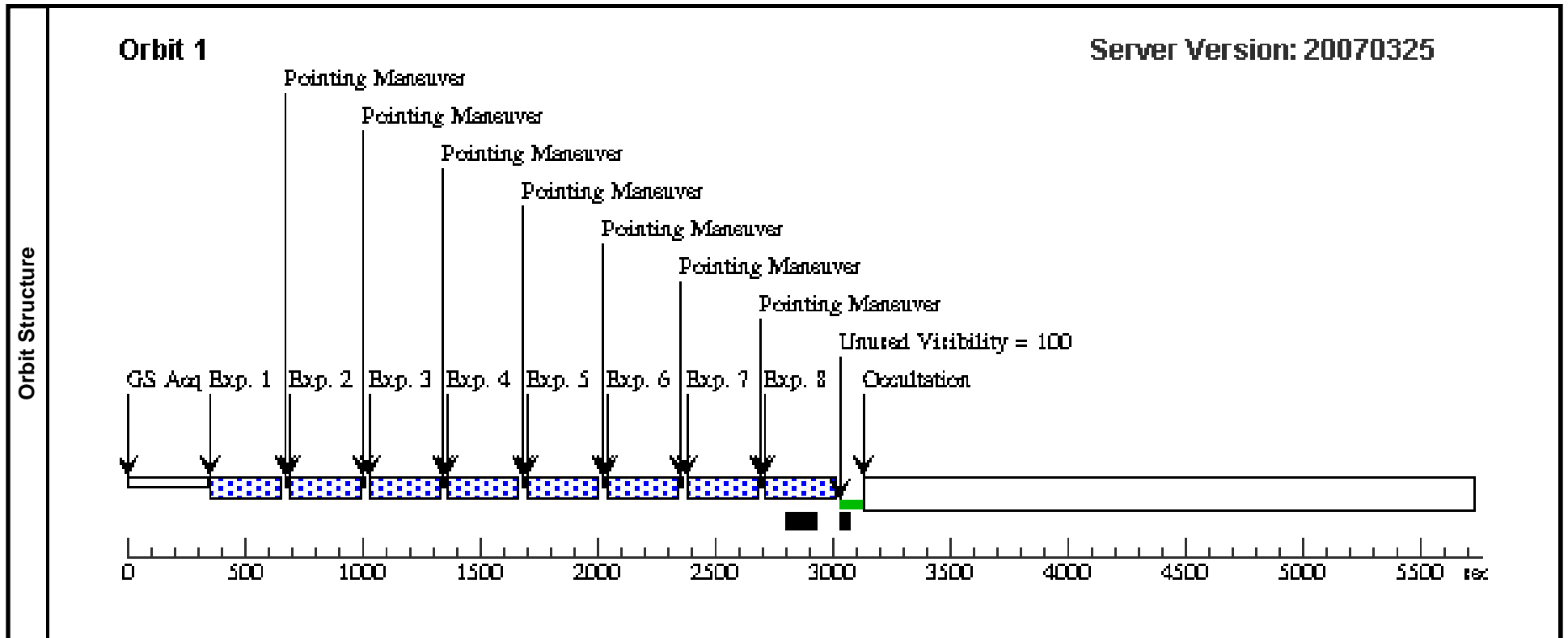
Visit	Proposal 10909, Visit A2, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: GROUP A2,A1,A3 WITHIN 24.0H Comments: <i>First epoch ACS/WFC observation of SN1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false					(2)	
	(4)	Pattern Type=LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(1)	GRB-SN1	RA: 00 00 0.0000 (.0000000d) Dec: +00 00 0.00 (.00000d) Equinox: J2000		Redshift: 0.54		V=22.0+/-2.0		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F555/1	(1) GRB-SN1	ACS/WFC, ACCUM, WFC1	F555W	CR-SPLIT=NO		Pattern 1-1 (4)	339.0 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2	F814/1	(1) GRB-SN1	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=NO		Pattern 2-2 (1)	410.0 Secs [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 10909 - Visit A3 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

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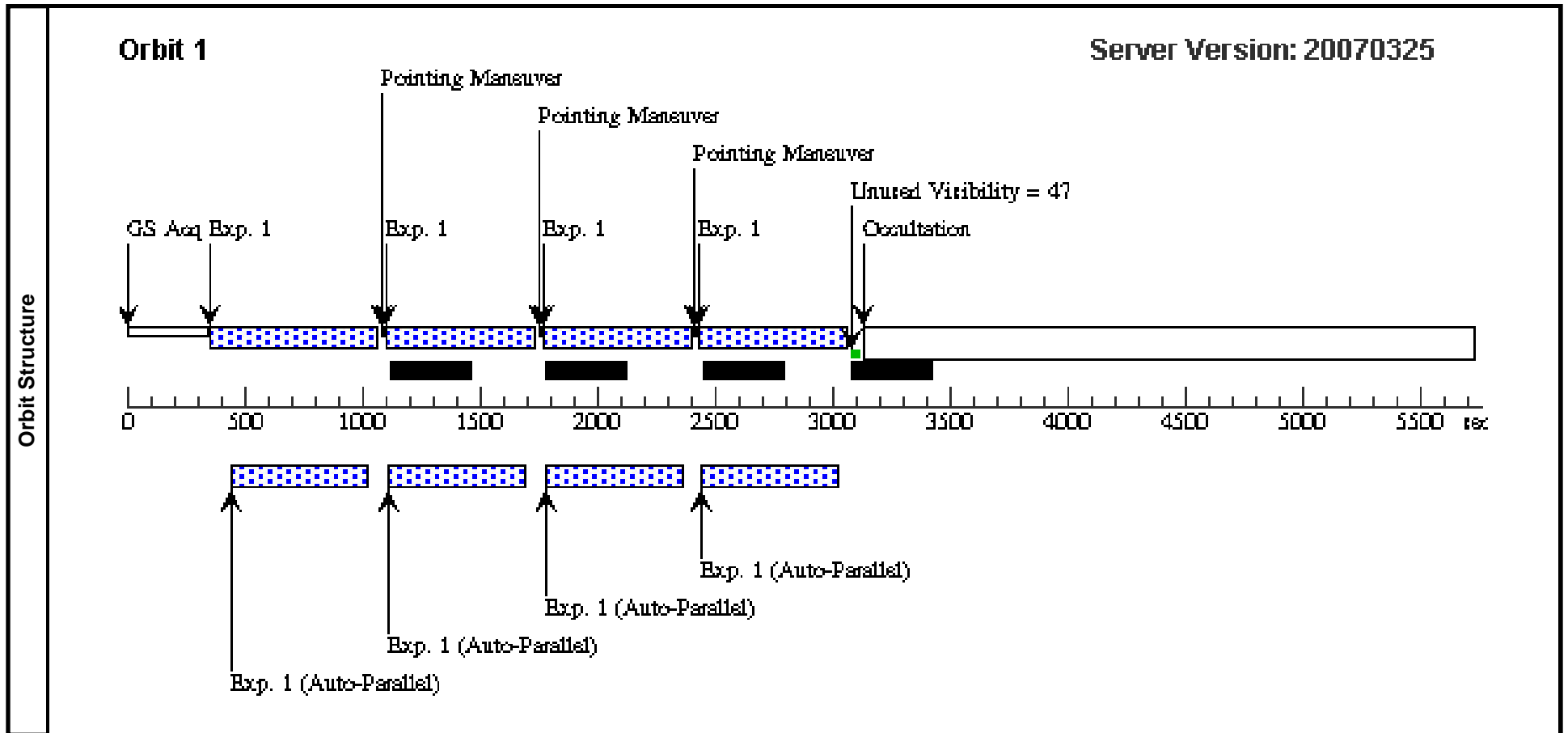
Visit	Proposal 10909, Visit A3, implementation Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: GROUP A3,A1,A2 WITHIN 24.0H Comments: <i>First epoch NICMOS observation of SN1</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	GRB-SN1	RA: 00 00 0.0000 (.0000000d) Dec: +00 00 0.00 (.00000d) Equinox: J2000	Redshift: 0.54	V=22.0+/-2.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F110/1	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=11; SAMP-SEQ=SPARS 32	POS TARG -1.426,- 1.421		[==>]	[1]
	2	F110/1	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG -1.426,1 .523		[==>]	[1]
	3	F110/1	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG 1.528,-1 .421		[==>]	[1]
	4	F110/1	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG 1.528,1 523		[==>]	[1]
	5	F160/1	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG -1.426,- 1.421		[==>]	[1]
	6	F160/1	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG -1.426,1 .523		[==>]	[1]
	7	F160/1	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG 1.528,-1 .421		[==>]	[1]
8	F160/1	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG 1.528,1 523		[==>]	[1]	



Proposal 10909 - Visit B1 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

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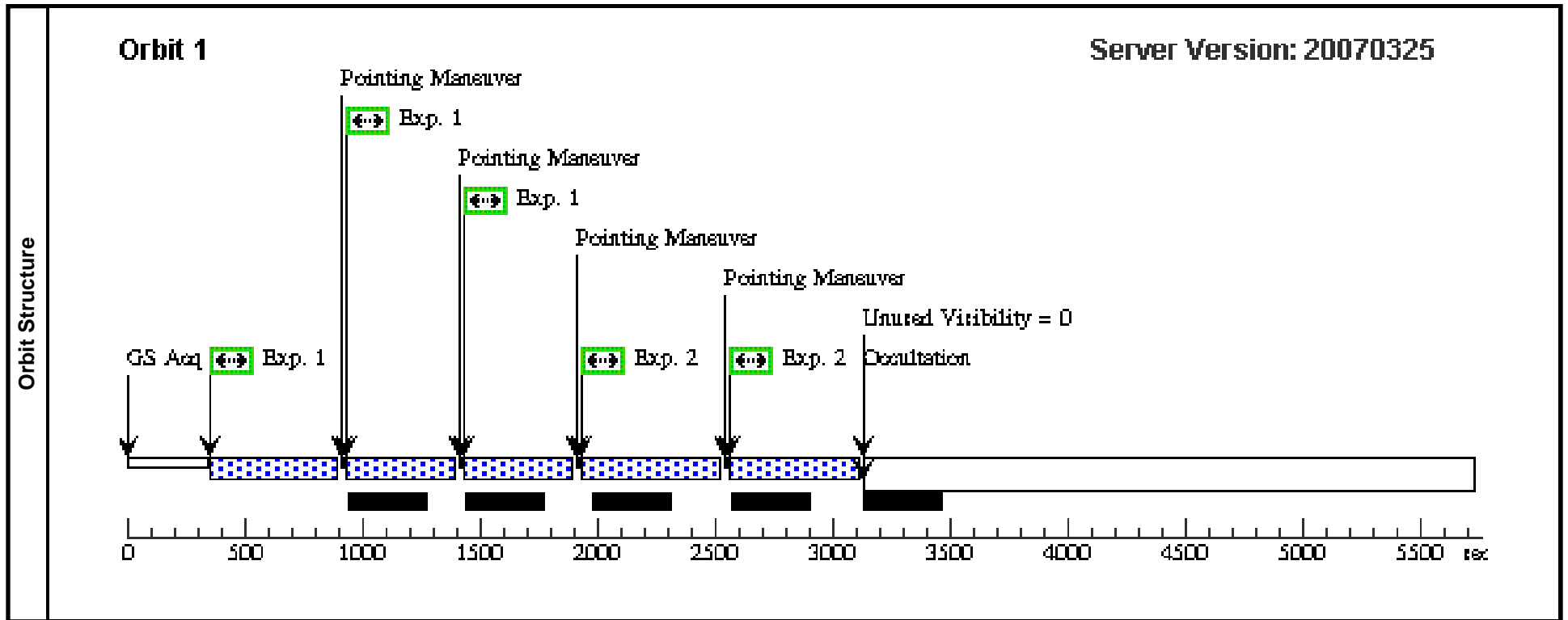
Visit	Proposal 10909, Visit B1, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: AFTER A1 BY 6 D TO 9 D; GROUP B1,B2,B3 WITHIN 24.0H Comments: <i>Second epoch ACS/HRC observation of SN1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(3)		Pattern Type=ACS-HRC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.15 Line Spacing=0.098	Coordinate Frame=POS-TARG Pattern Orientation=19.89 Angle Between Sides=63.5 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	GRB-SN1	RA: 00 00 0.0000 (.0000000d) Dec: +00 00 0.00 (.00000d) Equinox: J2000	Redshift: 0.54	V=22.0+/-2.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	UV/2	(1) GRB-SN1	ACS/HRC, ACCUM, HRC	F250W	CR-SPLIT=NO		Pattern 1-1 (3)	600.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 10909 - Visit B2 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

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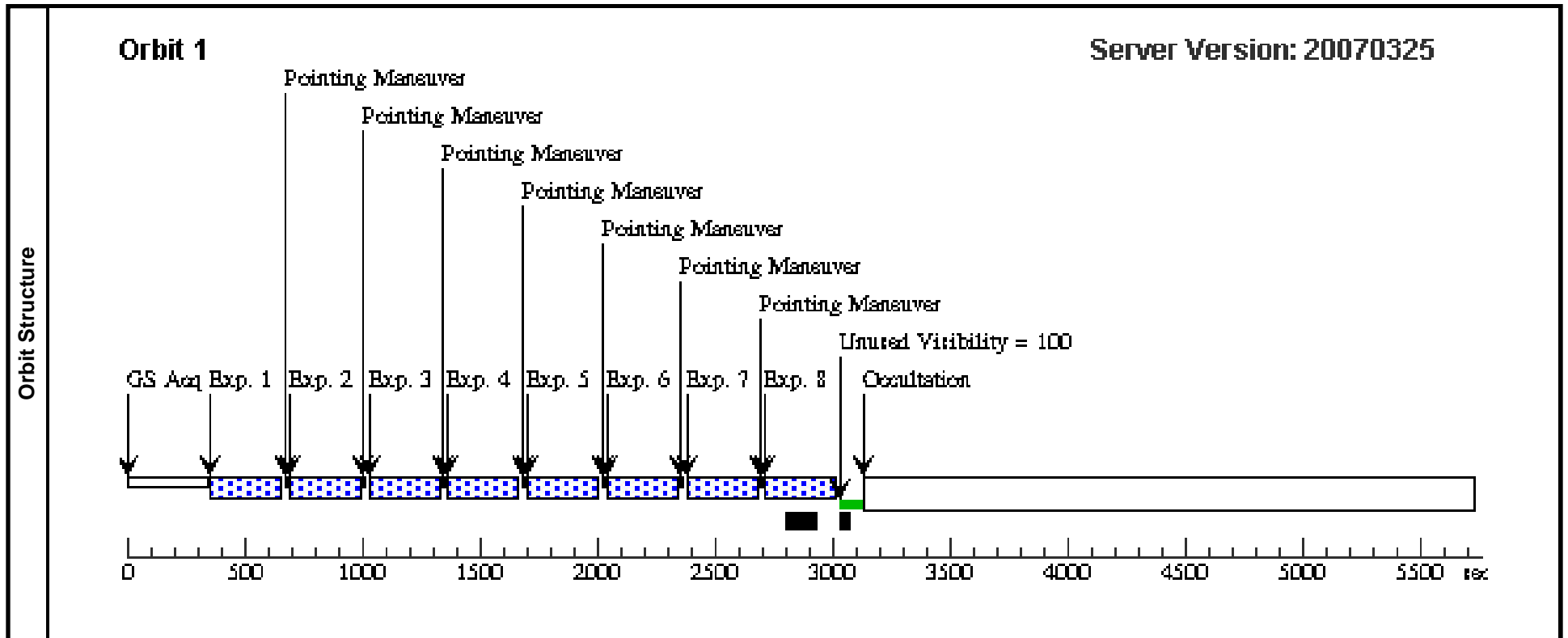
Visit	Proposal 10909, Visit B2, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: AFTER A2 BY 6 D TO 9 D; GROUP B2,B1,B3 WITHIN 24.0H Comments: <i>Second epoch ACS/WFC observation of SNI</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false					(2)	
	(4)	Pattern Type=LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(1)	GRB-SN1	RA: 00 00 0.0000 (.0000000d) Dec: +00 00 0.00 (.00000d) Equinox: J2000		Redshift: 0.54		V=22.0+/-2.0		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F555/2	(1) GRB-SN1	ACS/WFC, ACCUM, WFC1	F555W	CR-SPLIT=NO		Pattern 1-1 (4)	339.0 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2	F814/2	(1) GRB-SN1	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=NO		Pattern 2-2 (1)	430.0 Secs [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 10909 - Visit B3 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

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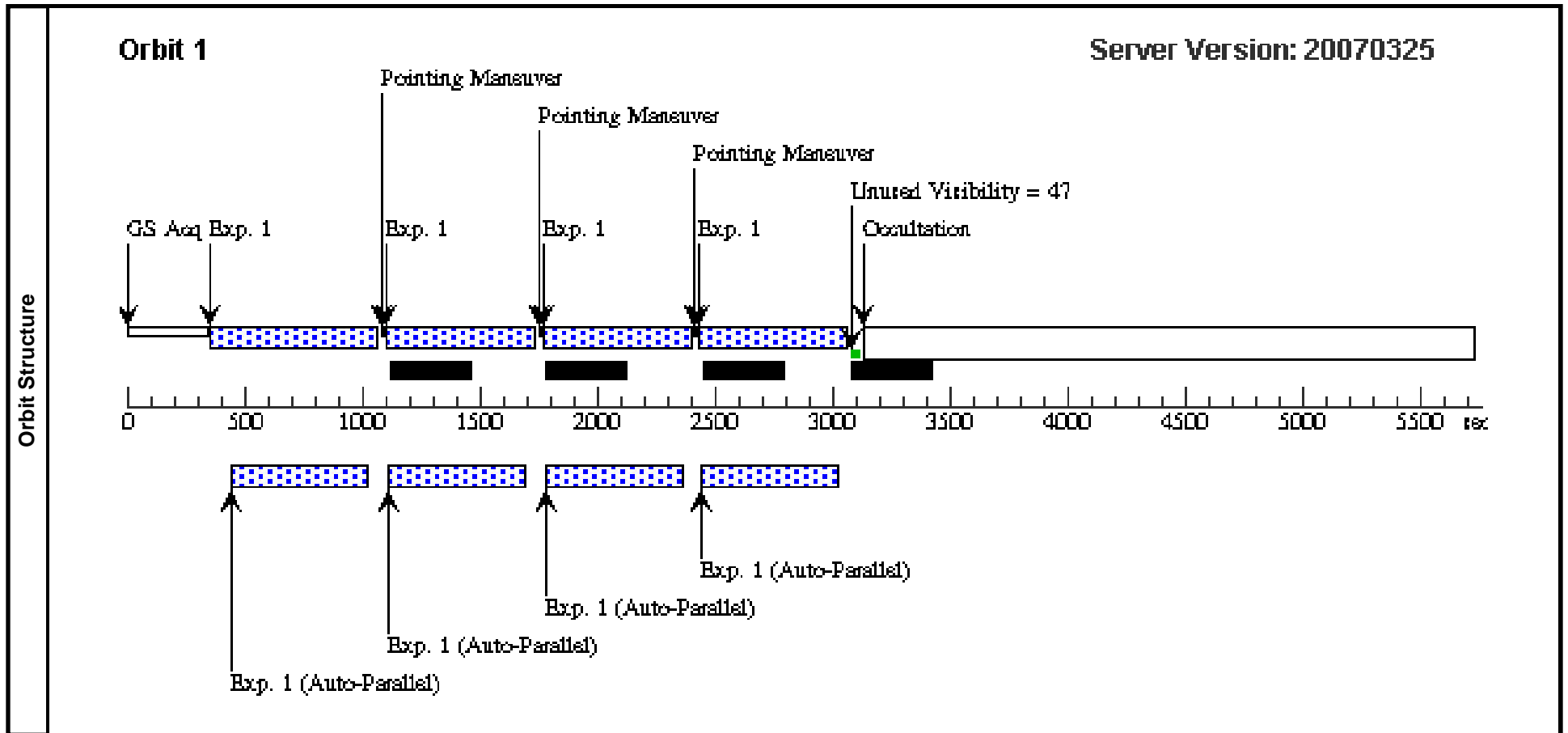
Visit	Proposal 10909, Visit B3, implementation Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: AFTER A3 BY 6 D TO 9 D; GROUP B3,B1,B2 WITHIN 24.0H Comments: <i>Second epoch NICMOS observation of SN1</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	GRB-SN1	RA: 00 00 0.0000 (.0000000d) Dec: +00 00 0.00 (.00000d) Equinox: J2000	Redshift: 0.54	V=22.0+/-2.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F110/2	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=11; SAMP-SEQ=SPARS 32	POS TARG -1.426,- 1.421		[==>]	[1]
	2	F110/2	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG -1.426,1 .523		[==>]	[1]
	3	F110/2	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG 1.528,-1 .421		[==>]	[1]
	4	F110/2	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG 1.528,1 523		[==>]	[1]
	5	F160/2	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG -1.426,- 1.421		[==>]	[1]
	6	F160/2	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG -1.426,1 .523		[==>]	[1]
	7	F160/2	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG 1.528,-1 .421		[==>]	[1]
8	F160/2	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG 1.528,1 523		[==>]	[1]	



Proposal 10909 - Visit C1 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

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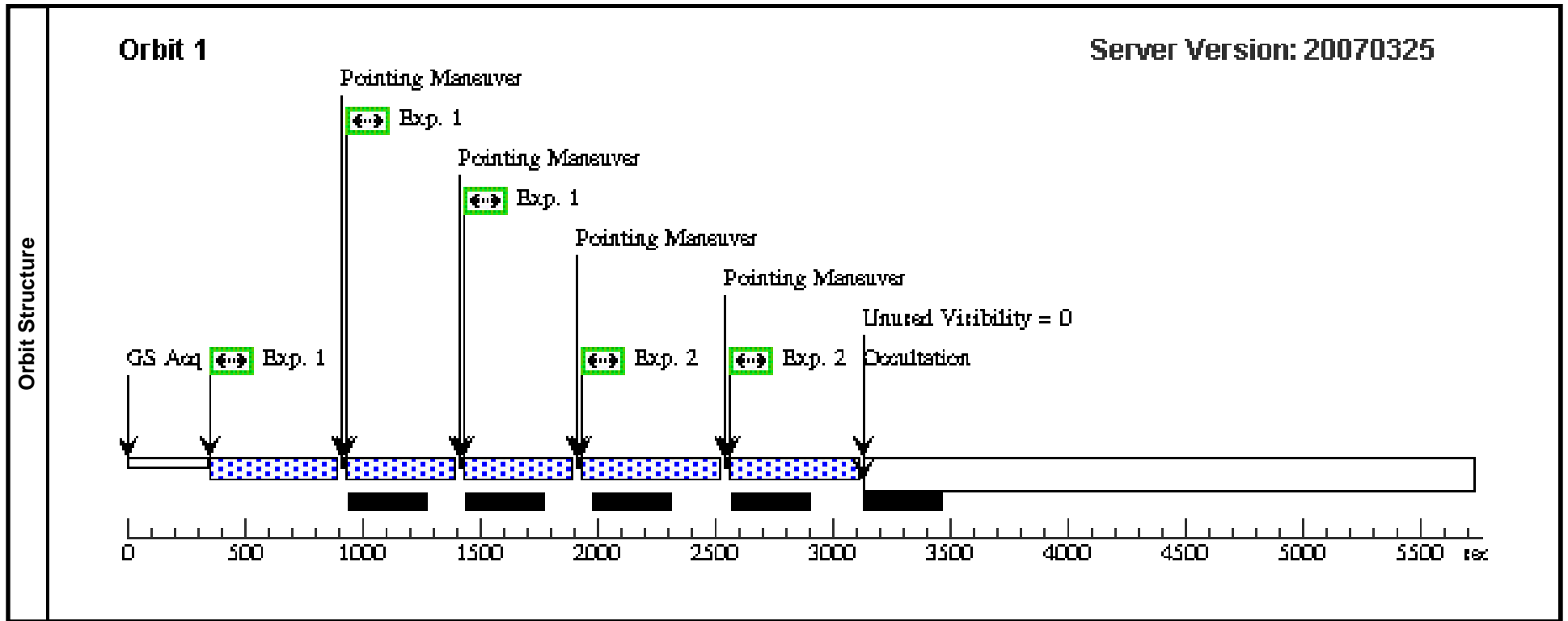
Visit	Proposal 10909, Visit C1, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: AFTER B1 BY 9 D TO 12 D; GROUP C1,C2,C3 WITHIN 48.0H Comments: <i>Third epoch ACS/HRC observation of SNI</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(3)		Pattern Type=ACS-HRC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.15 Line Spacing=0.098	Coordinate Frame=POS-TARG Pattern Orientation=19.89 Angle Between Sides=63.5 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	GRB-SN1	RA: 00 00 0.0000 (.0000000d) Dec: +00 00 0.00 (.00000d) Equinox: J2000	Redshift: 0.54	V=22.0+/-2.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	UV/3	(1) GRB-SN1	ACS/HRC, ACCUM, HRC	F250W	CR-SPLIT=NO		Pattern 1-1 (3)	600.0 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 10909 - Visit C2 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

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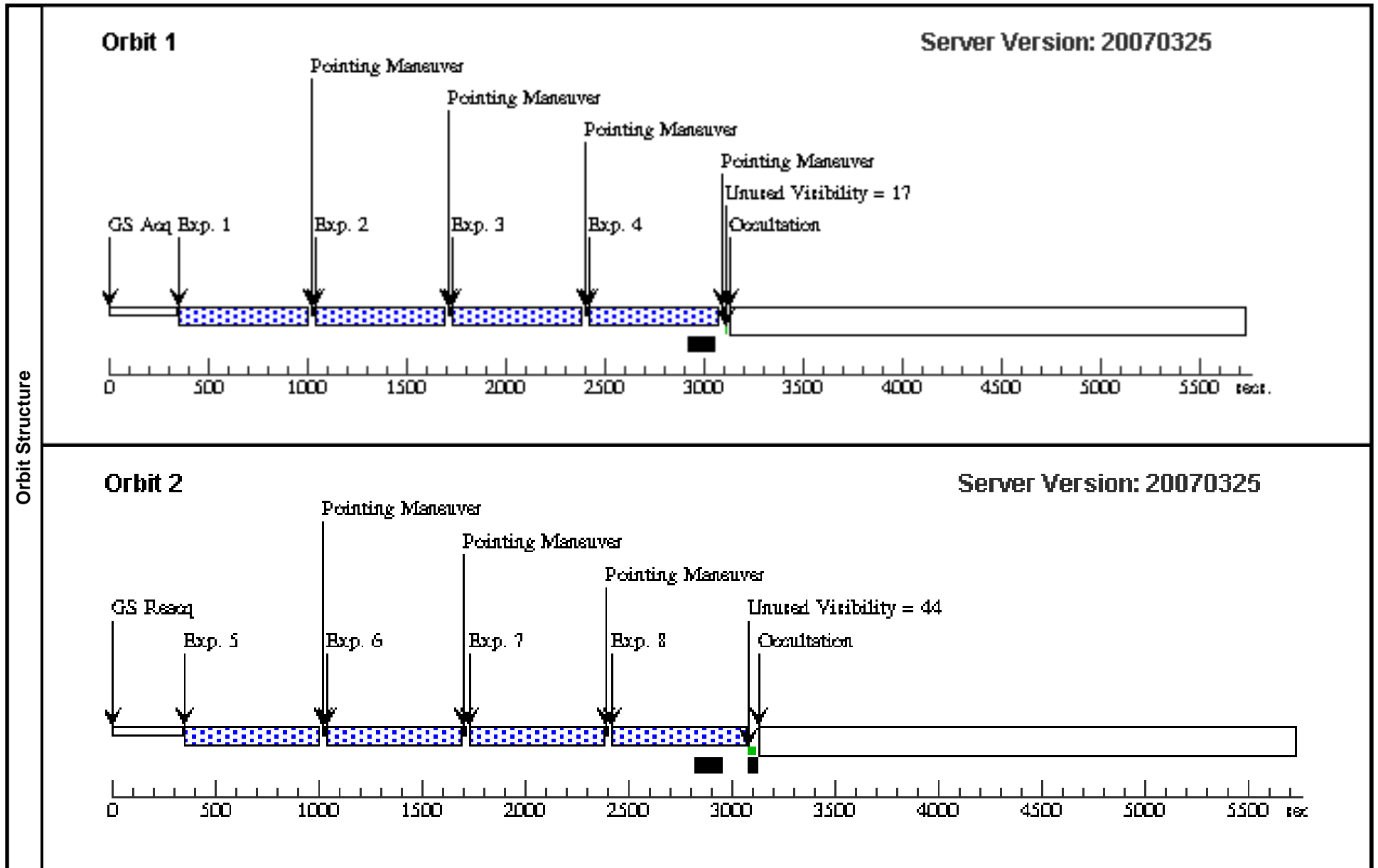
Visit	Proposal 10909, Visit C2, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: AFTER B2 BY 9 D TO 12 D; GROUP C2,C1,C3 WITHIN 48.0H Comments: <i>Third epoch ACS/WFC observation of SNI</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false					(2)	
	(4)	Pattern Type=LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	GRB-SN1	RA: 00 00 0.0000 (.0000000d) Dec: +00 00 0.00 (.000000d) Equinox: J2000	Redshift: 0.54	V=22.0+/-2.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F555/3	(1) GRB-SN1	ACS/WFC, ACCUM, WFC1	F555W	CR-SPLIT=NO		Pattern 1-1 (4)	339.0 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2	F814/3	(1) GRB-SN1	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=NO		Pattern 2-2 (1)	430.0 Secs [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 10909 - Visit C3 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

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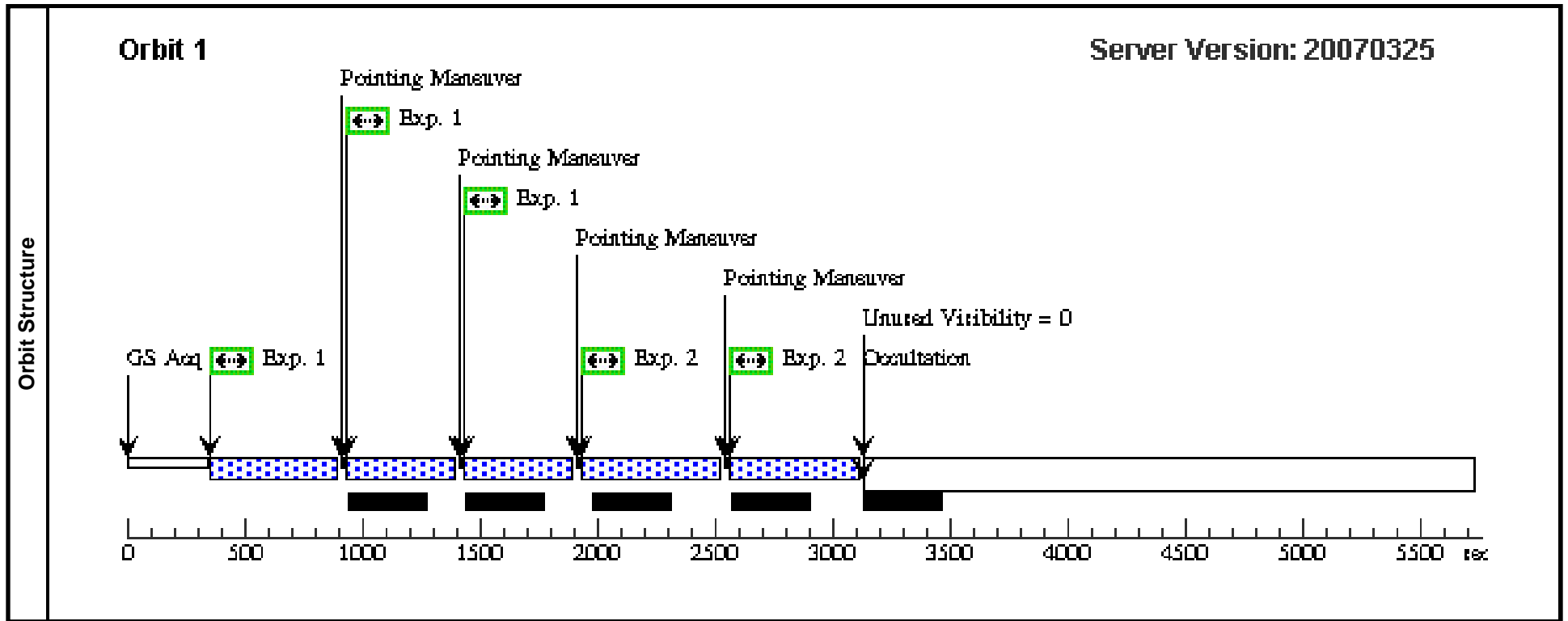
Visit	Proposal 10909, Visit C3, implementation Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: AFTER B3 BY 9 D TO 12 D; GROUP C3,C1,C2 WITHIN 48.0H Comments: <i>Third epoch NICMOS observation of SN1</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	GRB-SN1	RA: 00 00 0.0000 (.0000000d) Dec: +00 00 0.00 (.00000d) Equinox: J2000	Redshift: 0.54	V=22.0+/-2.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F110/3	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=22; SAMP-SEQ=SPARS 32	POS TARG -1.426,- 1.421		[==>]	[1]
	2	F110/3	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG -1.426,1 .523		[==>]	[1]
	3	F110/3	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG 1.528,-1 .421		[==>]	[1]
	4	F110/3	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG 1.528,1 523		[==>]	[1]
	5	F160/3	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG -1.426,- 1.421		[==>]	[2]
	6	F160/3	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG -1.426,1 .523		[==>]	[2]
	7	F160/3	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG 1.528,-1 .421		[==>]	[2]
8	F160/3	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG 1.528,1 523		[==>]	[2]	



Proposal 10909 - Visit D2 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

Mon May 21 19:58:02 GMT 2007

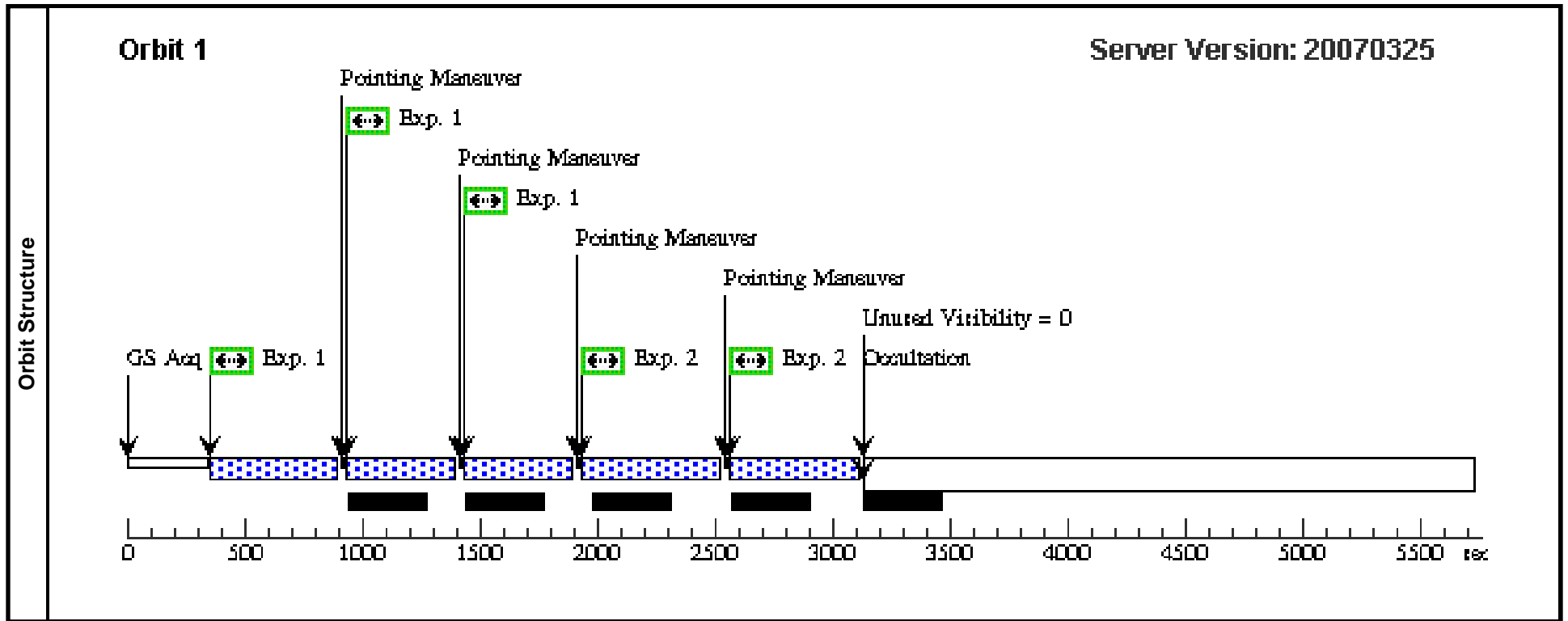
Visit	Proposal 10909, Visit D2, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: AFTER C2 BY 22 D TO 30 D Comments: <i>Fourth epoch ACS/WFC observation of SNI</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false					(2)	
	(4)	Pattern Type=LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	GRB-SN1	RA: 00 00 0.0000 (.0000000d) Dec: +00 00 0.00 (.00000d) Equinox: J2000	Redshift: 0.54	V=22.0+/-2.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F555/4	(1) GRB-SN1	ACS/WFC, ACCUM, WFC1	F555W	CR-SPLIT=NO		Pattern 1-1 (4)	339.0 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2	F814/4	(1) GRB-SN1	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=NO		Pattern 2-2 (1)	430.0 Secs [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 10909 - Visit E2 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

Mon May 21 19:58:03 GMT 2007

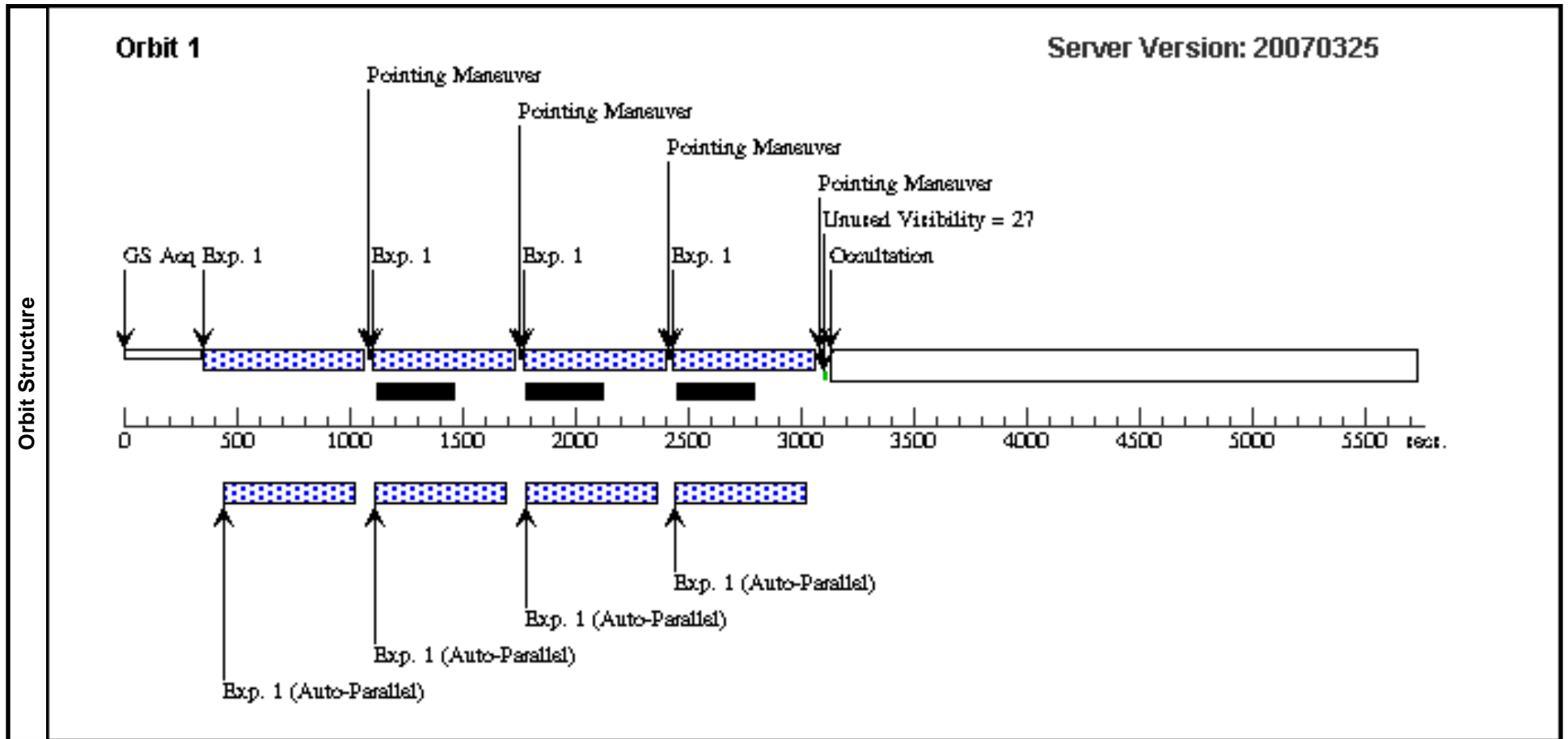
Visit	Proposal 10909, Visit E2, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: AFTER D2 BY 90 D TO 110 D Comments: <i>Fifth epoch ACS/WFC observation of SN1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false					(2)	
	(4)	Pattern Type=LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(1)	GRB-SN1	RA: 00 00 0.0000 (.0000000d) Dec: +00 00 0.00 (.00000d) Equinox: J2000		Redshift: 0.54		V=22.0+/-2.0		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F555/5	(1) GRB-SN1	ACS/WFC, ACCUM, WFC1	F555W	CR-SPLIT=NO		Pattern 1-1 (4)	339.0 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2	F814/5	(1) GRB-SN1	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=NO		Pattern 2-2 (1)	430.0 Secs [=>(Pattern 1)] [=>(Pattern 2)]	[1]

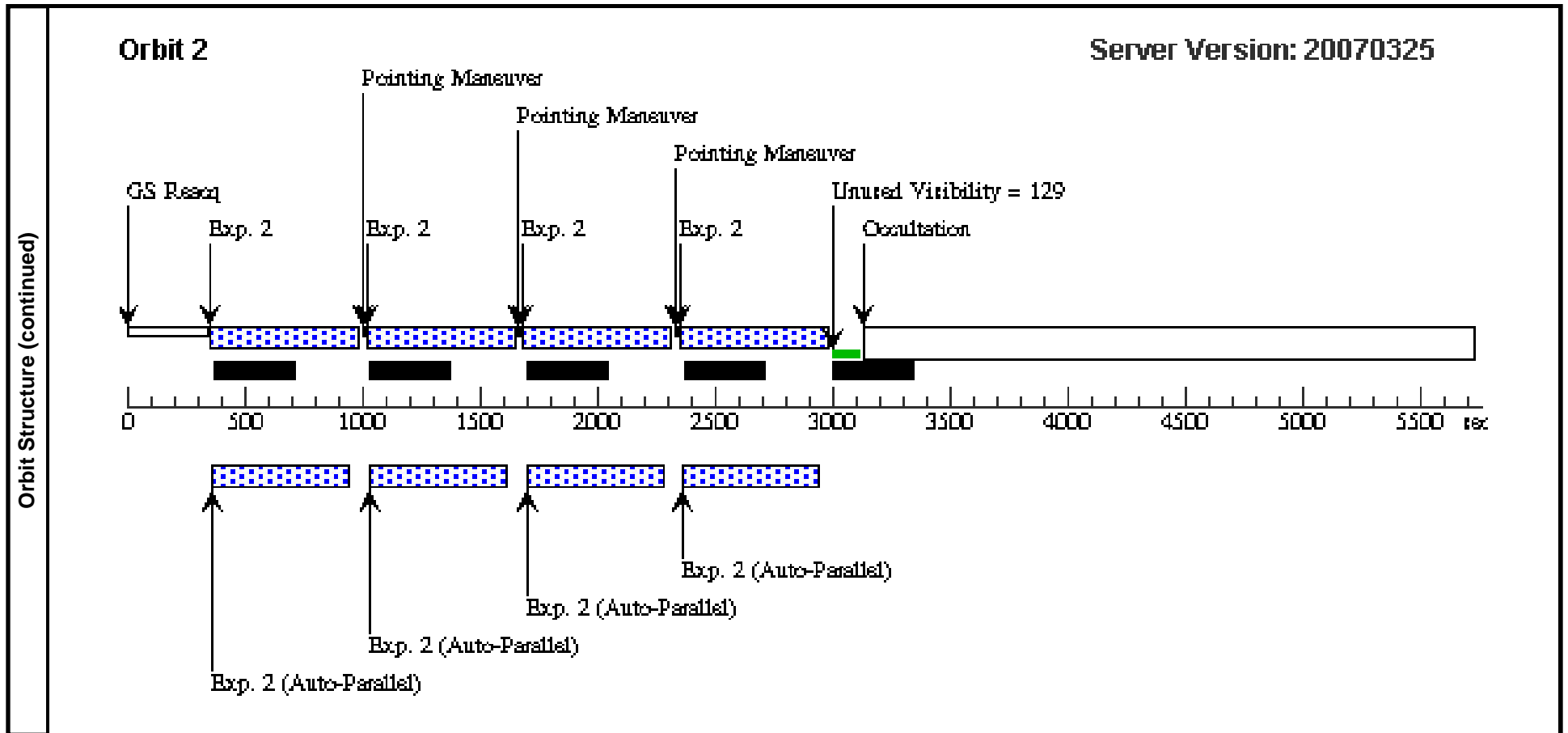


Proposal 10909 - Visit F1 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

Mon May 21 19:58:03 GMT 2007

Visit	Proposal 10909, Visit F1, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: AFTER A1 BY 400 D TO 500 D; GROUP F1,F2,F3 WITHIN 10.0D Comments: Last epoch ACS/HRC observation of SN1									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(3)	Pattern Type=ACS-HRC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.15 Line Spacing=0.098	Coordinate Frame=POS-TARG Pattern Orientation=19.89 Angle Between Sides=63.5 Center Pattern=false					(1), (2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous		
	(1)	GRB-SN1	RA: 00 00 0.0000 (.0000000d) Dec: +00 00 0.00 (.00000d) Equinox: J2000		Redshift: 0.54		V=22.0+/-2.0	Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	UV/last	(1) GRB-SN1	ACS/HRC, ACCUM, HRC	F250W	CR-SPLIT=NO		Pattern 1-1 (3)	600.0 Secs	
									[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]
	2	UV/last	(1) GRB-SN1	ACS/HRC, ACCUM, HRC	F250W	CR-SPLIT=NO		Pattern 2-2 (3)	600.0 Secs	
								[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]	

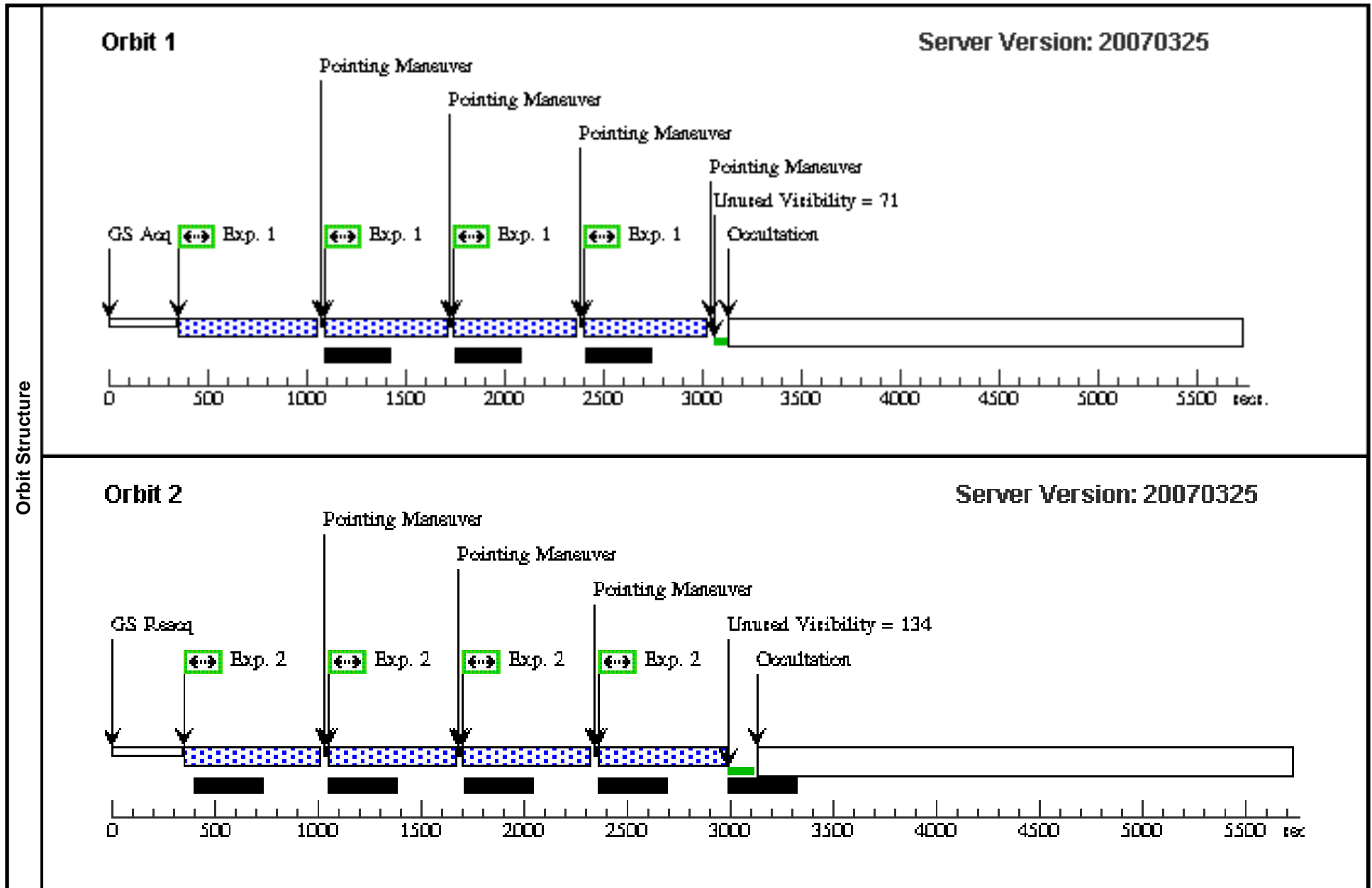




Proposal 10909 - Visit F2 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

Mon May 21 19:58:04 GMT 2007

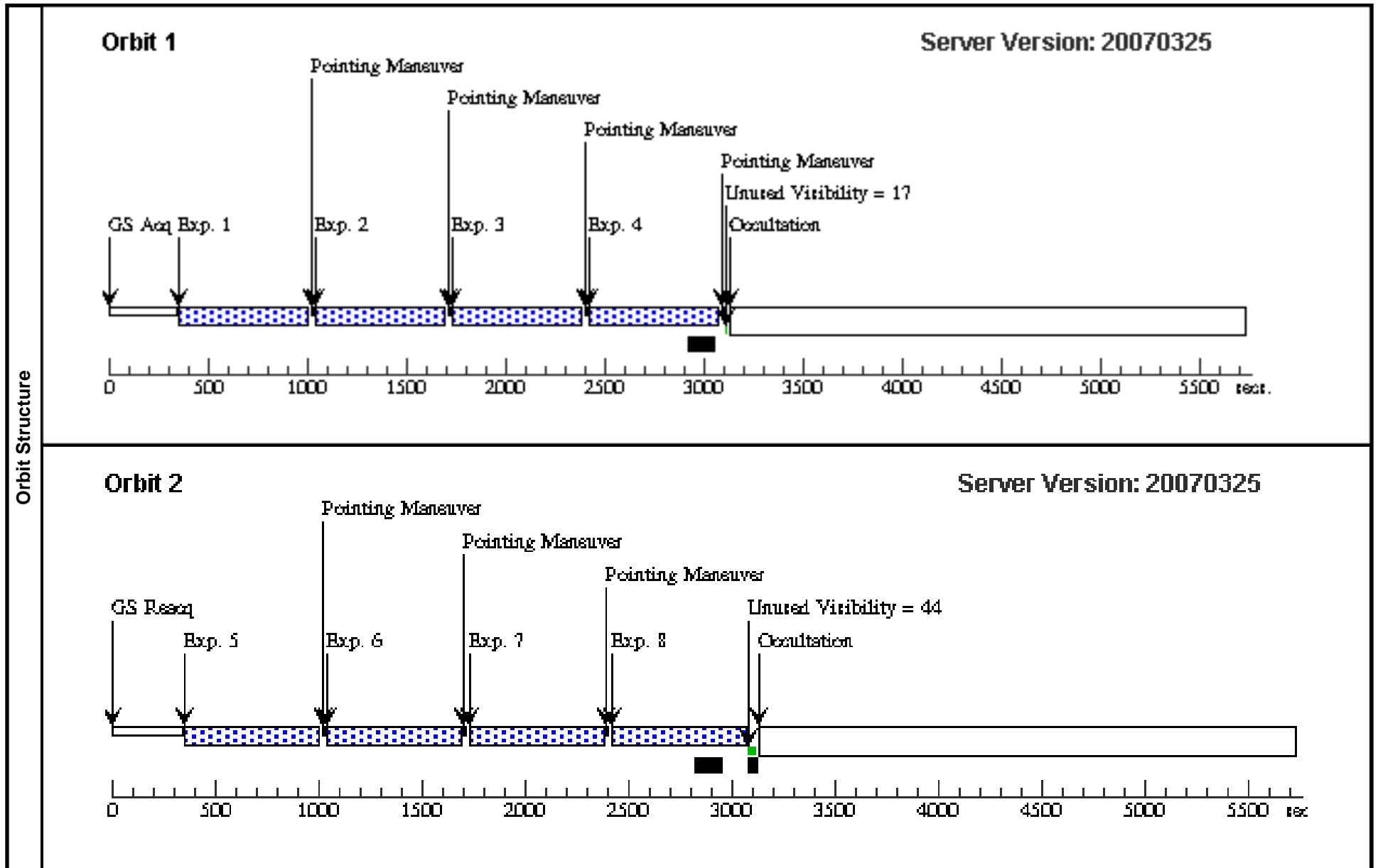
Visit	Proposal 10909, Visit F2, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: AFTER A2 BY 400 D TO 500 D; GROUP F2,F1,F3 WITHIN 10.0D Comments: Last epoch ACS/WFC observation of SN1									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(2)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.265 Line Spacing=0.187	Coordinate Frame=POS-TARG Pattern Orientation=20.67 Angle Between Sides=69.05 Center Pattern=false					(1), (2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous		
	(1)	GRB-SN1	RA: 00 00 0.0000 (.0000000d) Dec: +00 00 0.00 (.00000d) Equinox: J2000		Redshift: 0.54		V=22.0+/-2.0	Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F555/last	(1) GRB-SN1	ACS/WFC, ACCUM, WFC1	F555W	CR-SPLIT=NO		Pattern 1-1 (2)	500.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
2	F814/last	(1) GRB-SN1	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=NO		Pattern 2-2 (2)	500.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]	



Proposal 10909 - Visit F3 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

Mon May 21 19:58:05 GMT 2007

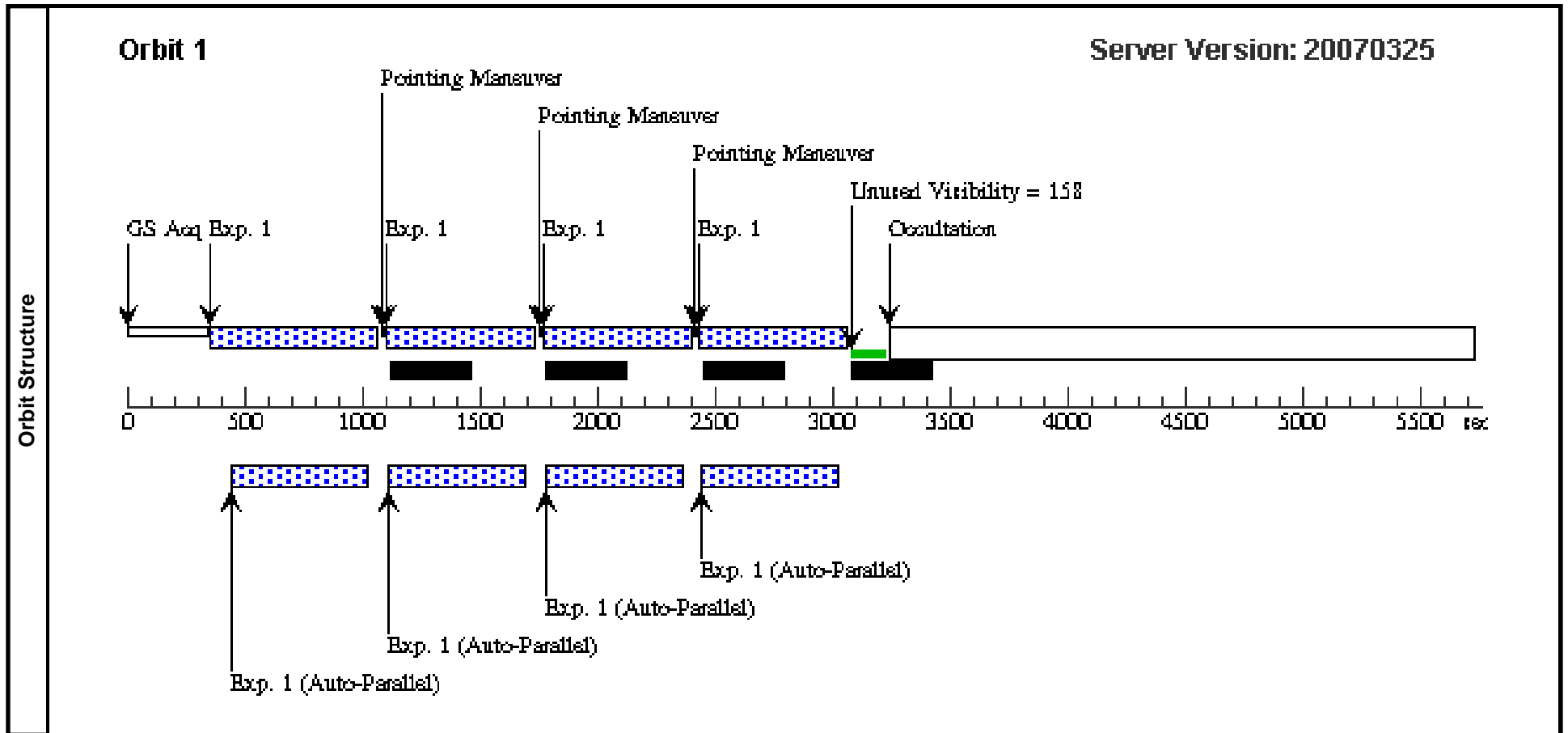
Visit	Proposal 10909, Visit F3, implementation Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: AFTER A3 BY 400 D TO 500 D; GROUP F3,F1,F2 WITHIN 10.0D Comments: Last epoch NICMOS observation of SN1									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	GRB-SN1	RA: 00 00 0.0000 (.0000000d) Dec: +00 00 0.00 (.00000d) Equinox: J2000	Redshift: 0.54	V=22.0+/-2.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F110/last	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=22; SAMP-SEQ=SPARS 32	POS TARG -1.426,- 1.421		[==>]	[1]
	2	F110/last	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG -1.426,1 .523		[==>]	[1]
	3	F110/last	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG 1.528,-1 .421		[==>]	[1]
	4	F110/last	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG 1.528,1 523		[==>]	[1]
	5	F160/last	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG -1.426,- 1.421		[==>]	[2]
	6	F160/last	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG -1.426,1 .523		[==>]	[2]
	7	F160/last	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG 1.528,-1 .421		[==>]	[2]
8	F160/last	(1) GRB-SN1	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG 1.528,1 523		[==>]	[2]	



Proposal 10909 - Visit M1 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

Mon May 21 19:58:06 GMT 2007

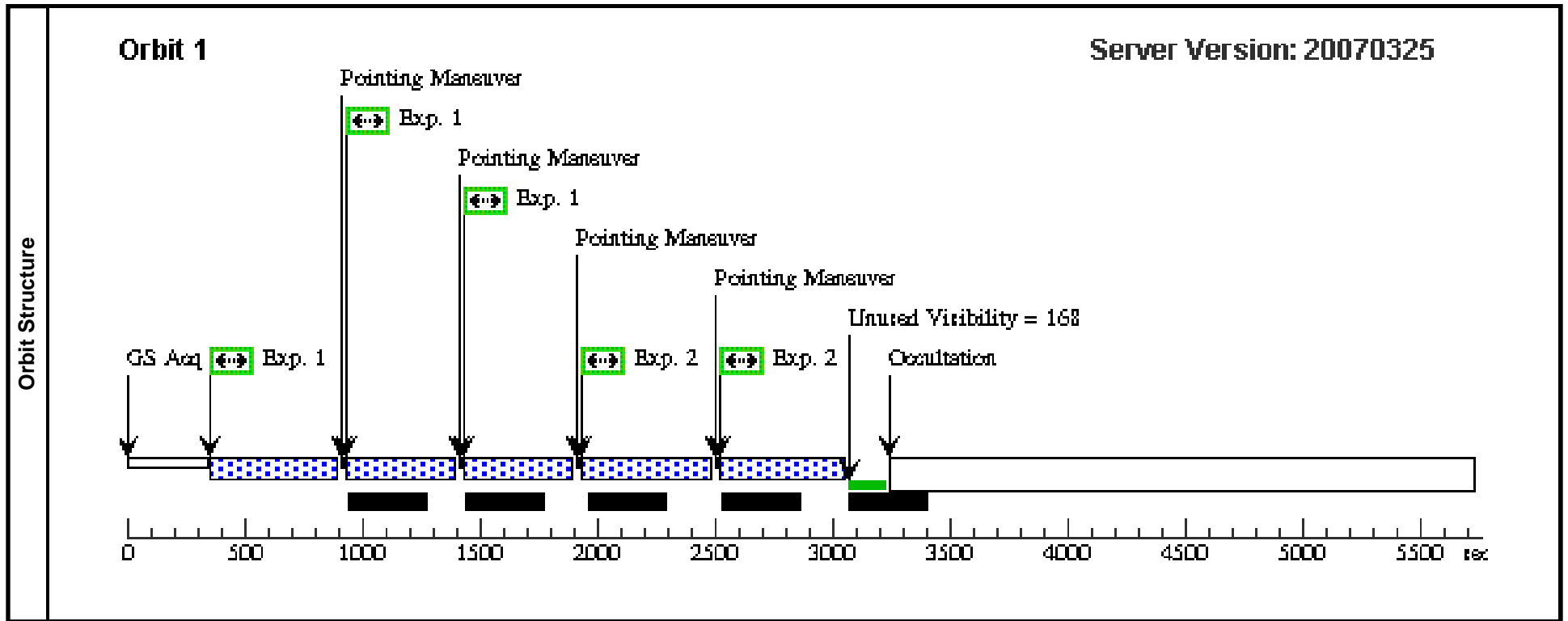
Visit	Proposal 10909, Visit M1, completed Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: GROUP M1,M2,M3 WITHIN 24.0H Comments: First epoch ACS/HRC observation of SN2									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(3)		Pattern Type=ACS-HRC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.15 Line Spacing=0.098	Coordinate Frame=POS-TARG Pattern Orientation=19.89 Angle Between Sides=63.5 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(2)	GRB060729	RA: 06 21 31.8500 (95.3827083d) Dec: -62 22 12.70 (-62.37019d) Equinox: J2000			V=24.0+/-2.0	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	UV/1	(2) GRB060729	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO		Pattern 1-1 (3)	600.0 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 10909 - Visit M2 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

Mon May 21 19:58:07 GMT 2007

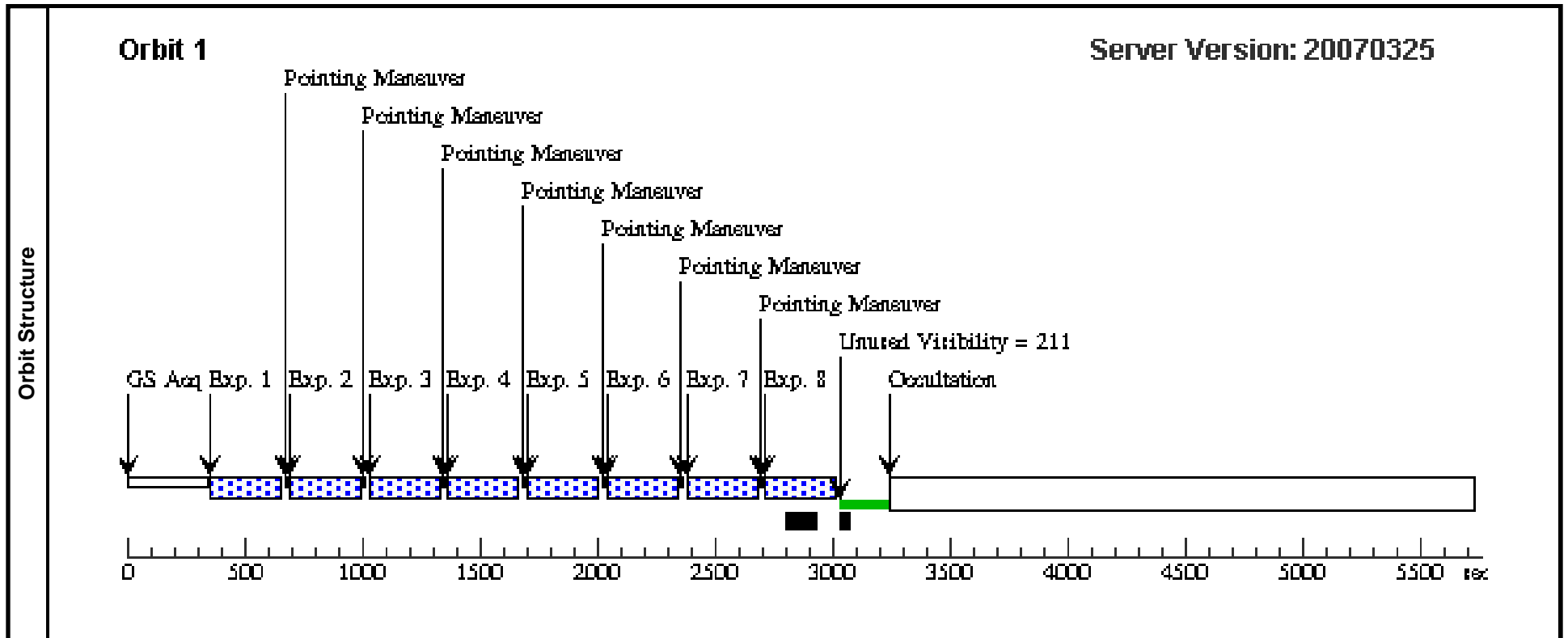
Visit	Proposal 10909, Visit M2, completed Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: GROUP M2,M1,M3 WITHIN 24.0H Comments: <i>First epoch ACS/WFC observation of SN2</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false					(2)	
	(4)	Pattern Type=LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	GRB060729	RA: 06 21 31.8500 (95.3827083d) Dec: -62 22 12.70 (-62.37019d) Equinox: J2000		V=24.0+/-2.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F625/1	(2) GRB060729	ACS/WFC, ACCUM, WFC1	F625W	CR-SPLIT=NO		Pattern 1-1 (4)	339.0 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2	F850/1	(2) GRB060729	ACS/WFC, ACCUM, WFC1	F850LP	CR-SPLIT=NO		Pattern 2-2 (1)	410.0 Secs [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 10909 - Visit M3 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

Mon May 21 19:58:07 GMT 2007

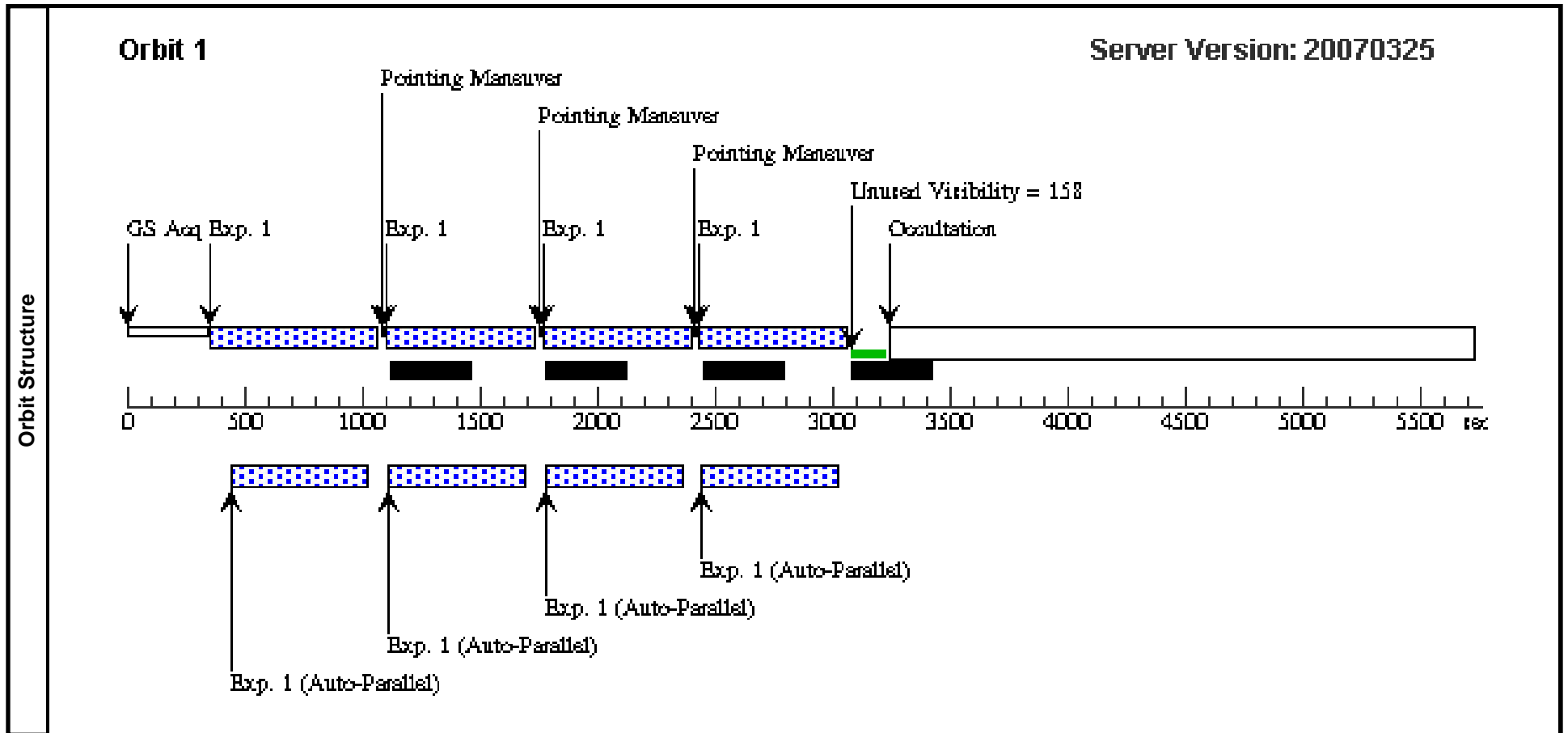
Visit	Proposal 10909, Visit M3, completed Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: GROUP M3,M1,M2 WITHIN 24.0H Comments: <i>First epoch NICMOS observation of SN2</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(2)	GRB060729	RA: 06 21 31.8500 (95.3827083d) Dec: -62 22 12.70 (-62.37019d) Equinox: J2000		V=24.0+/-2.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F222/1	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F222M	NSAMP=11; SAMP-SEQ=SPARS 32	POS TARG -1.426,- 1.421		[==>]	[1]
	2	F222/1	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F222M	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG -1.426,1 .523		[==>]	[1]
	3	F222/1	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F222M	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG 1.528,-1 .421		[==>]	[1]
	4	F222/1	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F222M	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG 1.528,1 523		[==>]	[1]
	5	F160/1	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG -1.426,- 1.421		[==>]	[1]
	6	F160/1	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG -1.426,1 .523		[==>]	[1]
	7	F160/1	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG 1.528,-1 .421		[==>]	[1]
8	F160/1	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG 1.528,1 523		[==>]	[1]	



Proposal 10909 - Visit N1 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

Mon May 21 19:58:08 GMT 2007

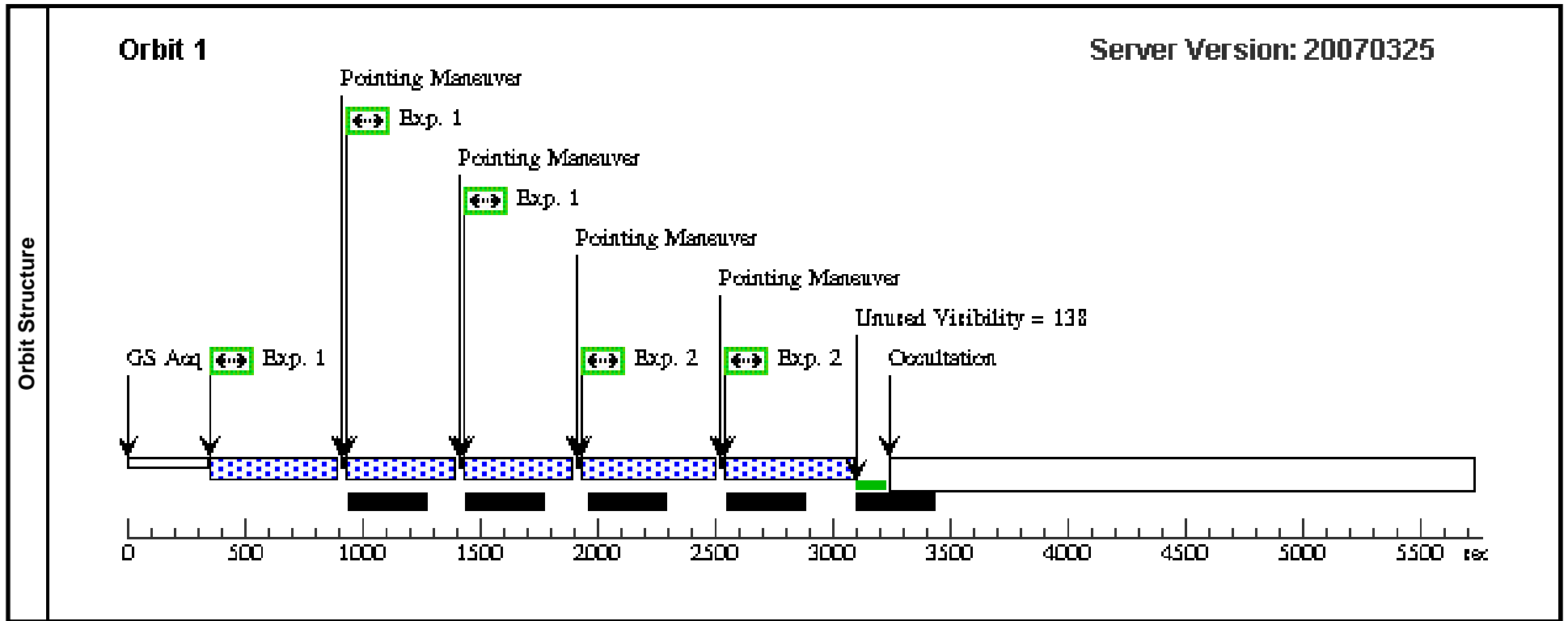
Visit	Proposal 10909, Visit N1, completed Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: AFTER M1 BY 6 D TO 9 D; GROUP N1,N2,N3 WITHIN 24.0H Comments: <i>Second epoch ACS/HRC observation of SN2</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(3)		Pattern Type=ACS-HRC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.15 Line Spacing=0.098	Coordinate Frame=POS-TARG Pattern Orientation=19.89 Angle Between Sides=63.5 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(2)	GRB060729	RA: 06 21 31.8500 (95.3827083d) Dec: -62 22 12.70 (-62.37019d) Equinox: J2000			V=24.0+/-2.0	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	UV/2	(2) GRB060729	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO		Pattern 1-1 (3)	600.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 10909 - Visit N2 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

Mon May 21 19:58:08 GMT 2007

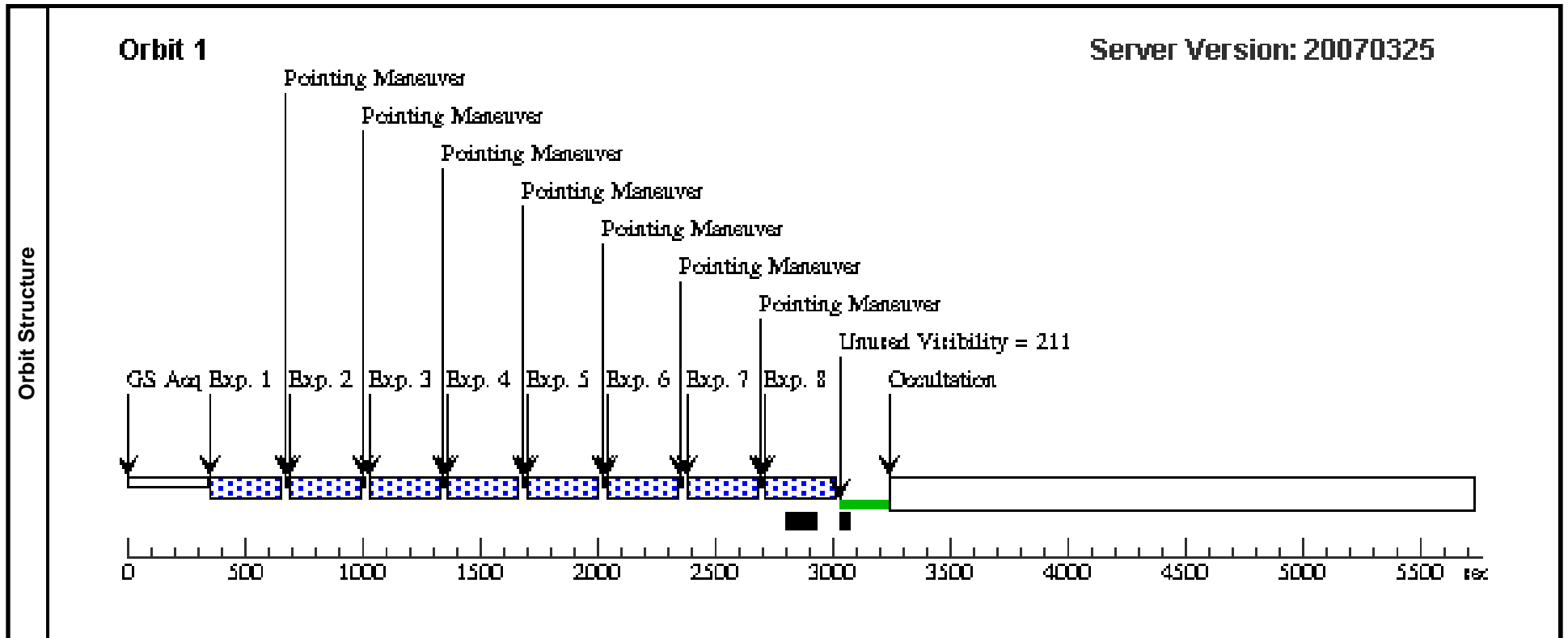
Visit	Proposal 10909, Visit N2, completed Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: AFTER M2 BY 6 D TO 9 D; GROUP N2,N1,N3 WITHIN 24.0H Comments: <i>Second epoch ACS/WFC observation of SN2</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false					(2)	
	(4)	Pattern Type=LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	GRB060729	RA: 06 21 31.8500 (95.3827083d) Dec: -62 22 12.70 (-62.37019d) Equinox: J2000		V=24.0+/-2.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F625/2	(2) GRB060729	ACS/WFC, ACCUM, WFC1	F625W	CR-SPLIT=NO		Pattern 1-1 (4)	339.0 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2	F850/2	(2) GRB060729	ACS/WFC, ACCUM, WFC1	F850LP	CR-SPLIT=NO		Pattern 2-2 (1)	425.0 Secs [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 10909 - Visit N3 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

Mon May 21 19:58:09 GMT 2007

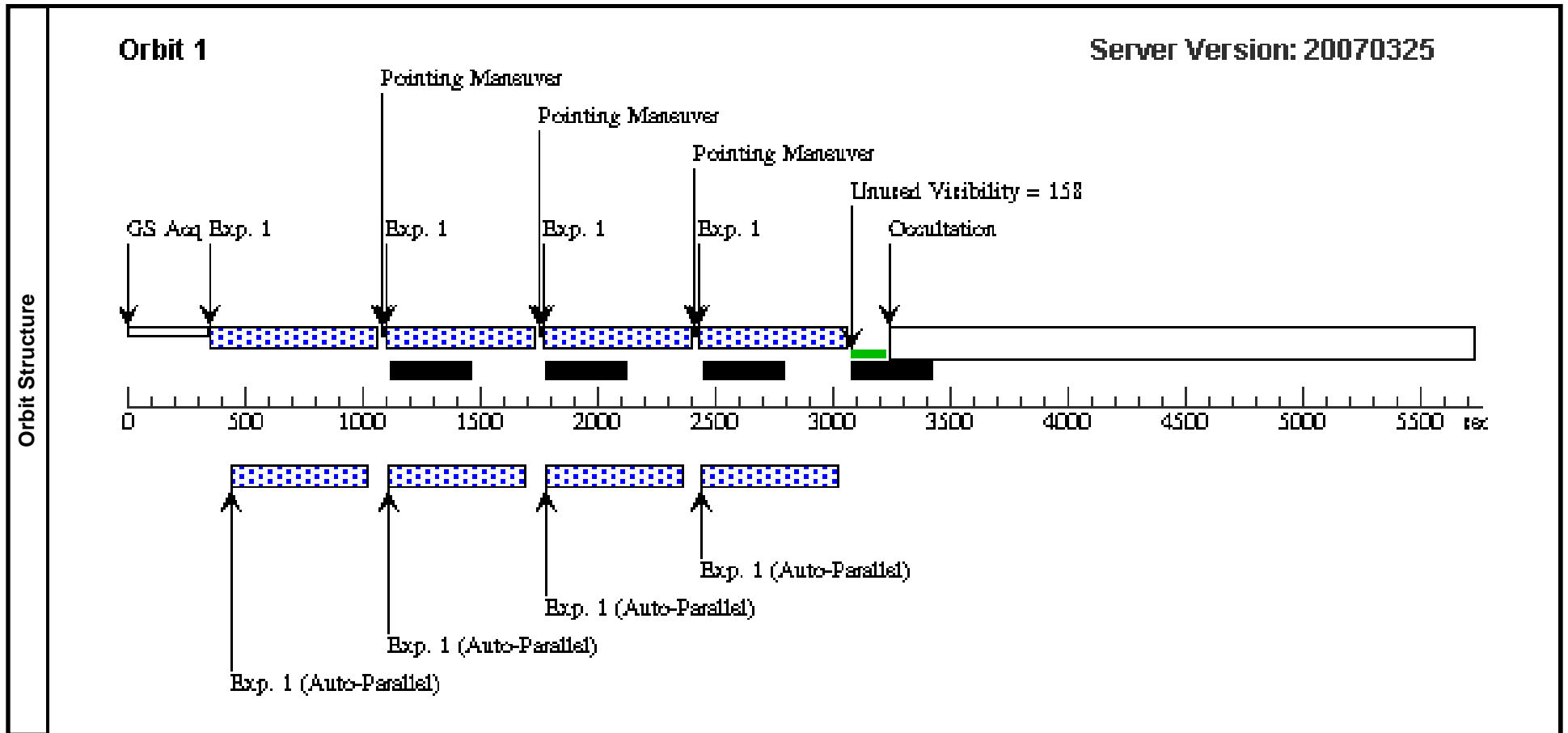
Visit	Proposal 10909, Visit N3, completed Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: AFTER M3 BY 6 D TO 9 D; GROUP N3,N1,N2 WITHIN 24.0H Comments: <i>Second epoch NICMOS observation of SN2</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(2)	GRB060729	RA: 06 21 31.8500 (95.3827083d) Dec: -62 22 12.70 (-62.37019d) Equinox: J2000		V=24.0+/-2.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F222/2	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F222M	NSAMP=11; SAMP-SEQ=SPARS 32	POS TARG -1.426,- 1.421		[==>]	[1]
	2	F222/2	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F222M	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG -1.426,1 .523		[==>]	[1]
	3	F222/2	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F222M	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG 1.528,-1 .421		[==>]	[1]
	4	F222/2	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F222M	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG 1.528,1 523		[==>]	[1]
	5	F160/2	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG -1.426,- 1.421		[==>]	[1]
	6	F160/2	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG -1.426,1 .523		[==>]	[1]
	7	F160/2	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG 1.528,-1 .421		[==>]	[1]
8	F160/2	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=11	POS TARG 1.528,1 523		[==>]	[1]	



Proposal 10909 - Visit O1 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

Mon May 21 19:58:09 GMT 2007

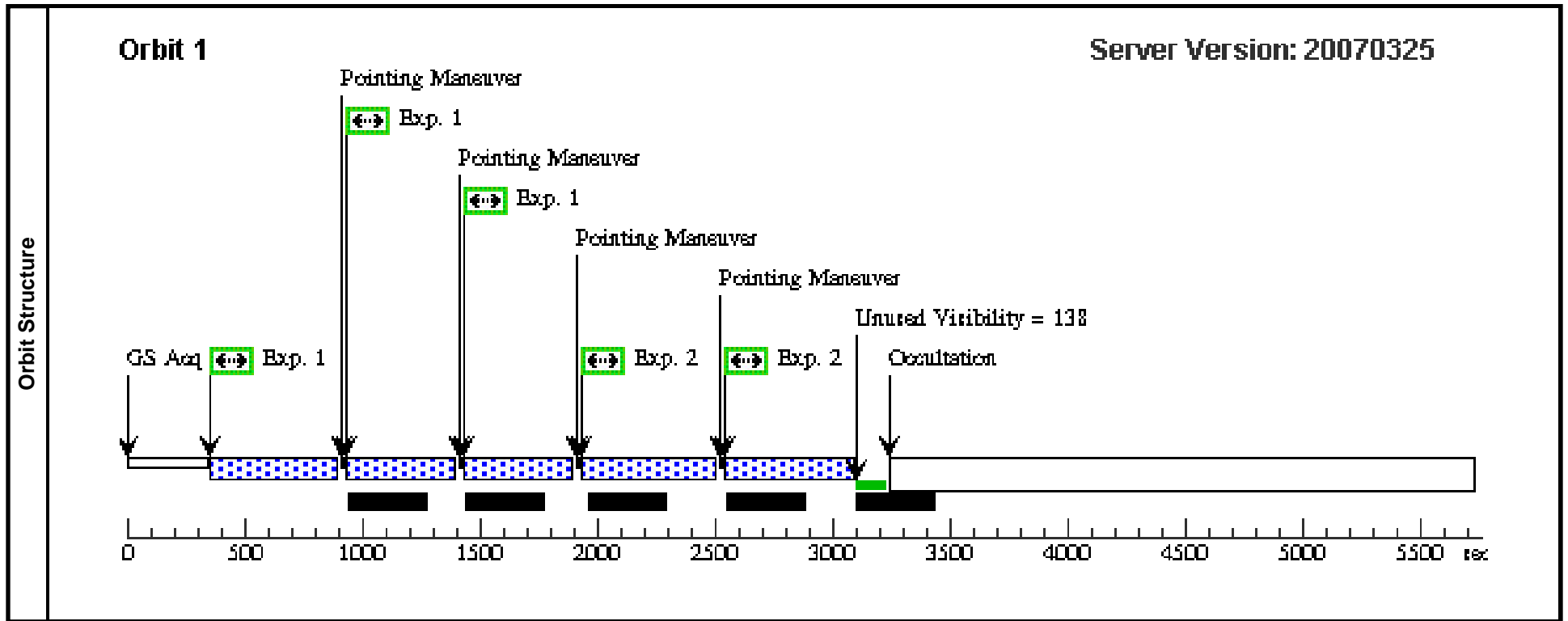
Visit	Proposal 10909, Visit O1, completed Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: AFTER N1 BY 9 D TO 12 D; GROUP O1,O2,O3 WITHIN 48.0H Comments: <i>Third epoch ACS/HRC observation of SN2</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(3)		Pattern Type=ACS-HRC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.15 Line Spacing=0.098	Coordinate Frame=POS-TARG Pattern Orientation=19.89 Angle Between Sides=63.5 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(2)	GRB060729	RA: 06 21 31.8500 (95.3827083d) Dec: -62 22 12.70 (-62.37019d) Equinox: J2000			V=24.0+/-2.0	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	UV/3	(2) GRB060729	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO		Pattern 1-1 (3)	600.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 10909 - Visit O2 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

Mon May 21 19:58:10 GMT 2007

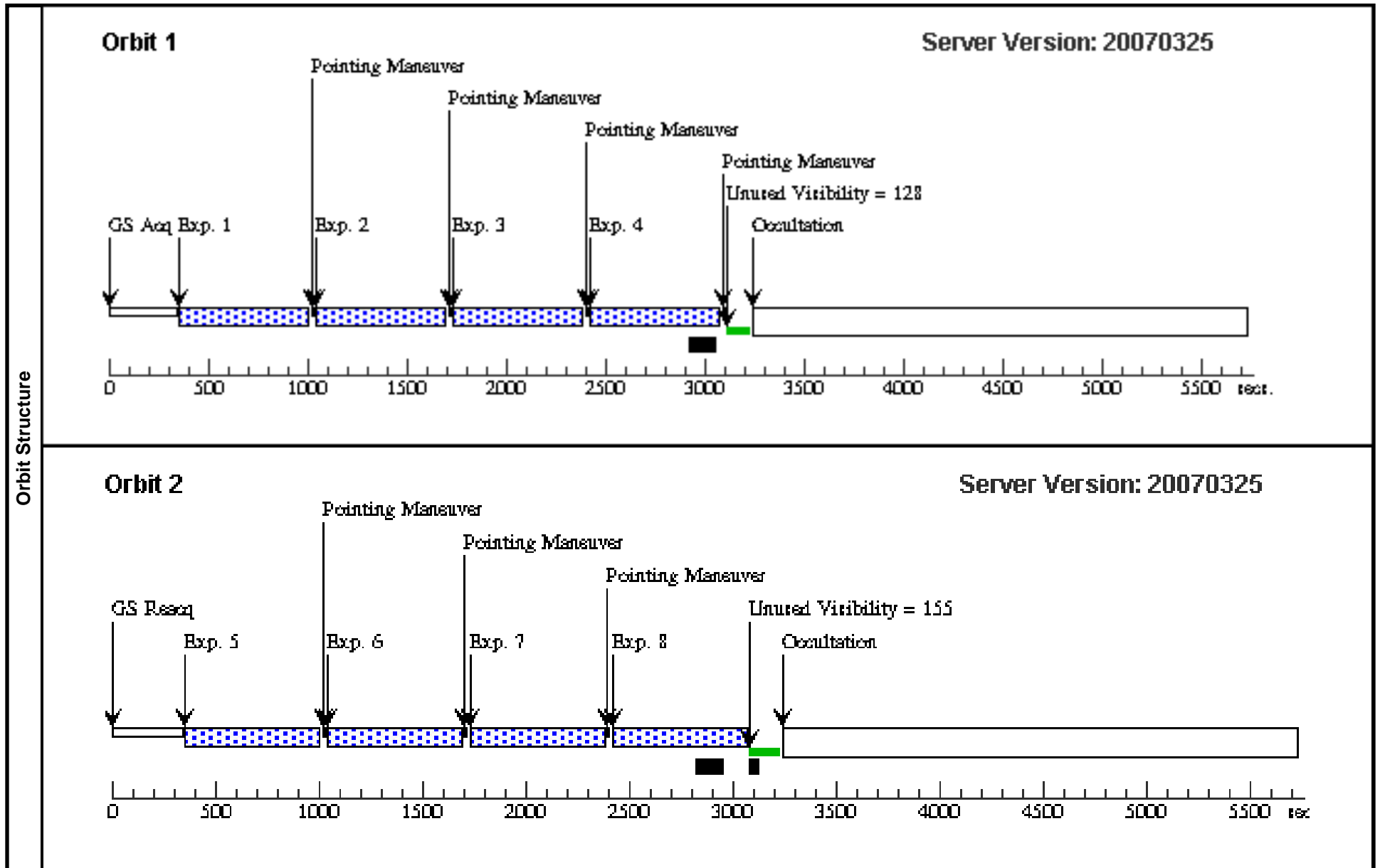
Visit	Proposal 10909, Visit O2, completed Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: AFTER N2 BY 9 D TO 12 D; GROUP O2,O1,O3 WITHIN 48.0H Comments: <i>Third epoch ACS/WFC observation of SN2</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false					(2)		
(4)	Pattern Type=LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false					(1)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	GRB060729	RA: 06 21 31.8500 (95.3827083d) Dec: -62 22 12.70 (-62.37019d) Equinox: J2000		V=24.0+/-2.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F625/3	(2) GRB060729	ACS/WFC, ACCUM, WFC1	F625W	CR-SPLIT=NO		Pattern 1-1 (4)	339.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
2	F850/3	(2) GRB060729	ACS/WFC, ACCUM, WFC1	F850LP	CR-SPLIT=NO		Pattern 2-2 (1)	425.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]	



Proposal 10909 - Visit O3 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

Mon May 21 19:58:10 GMT 2007

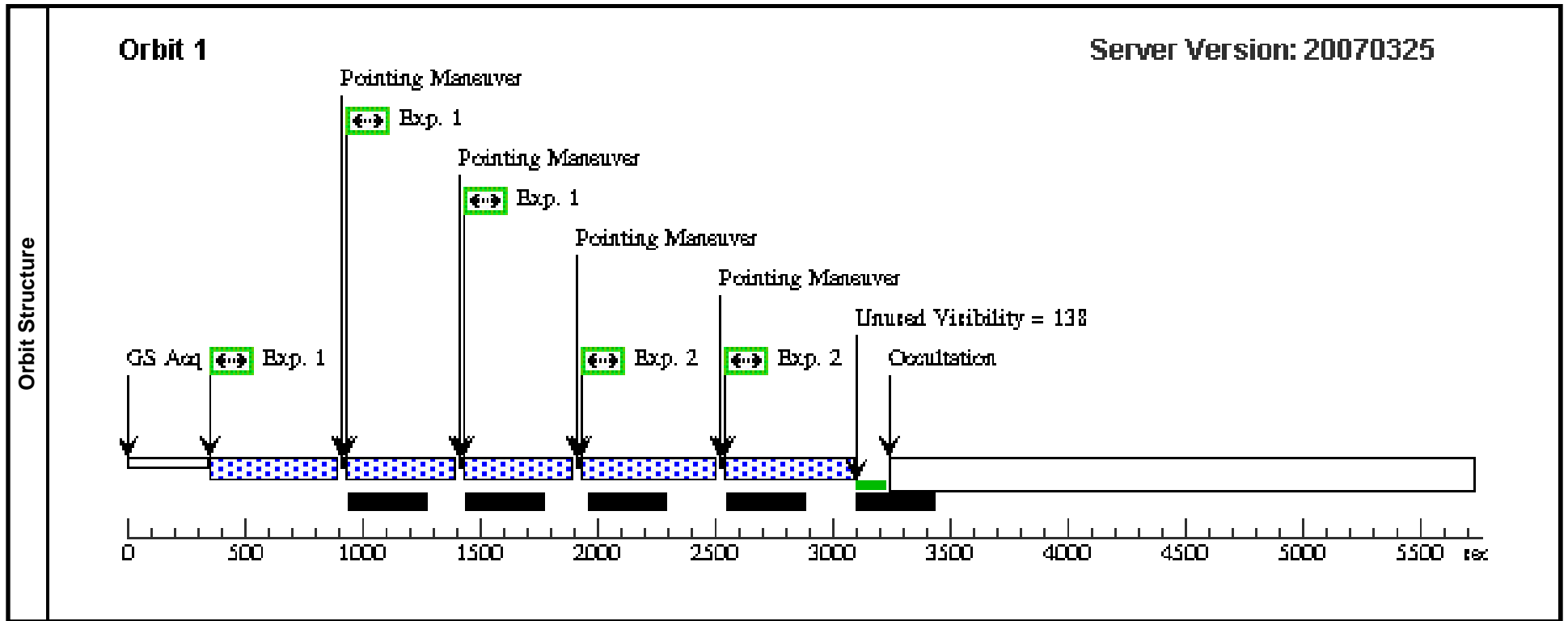
Visit	Proposal 10909, Visit O3, completed Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: AFTER N3 BY 9 D TO 12 D; GROUP O3,O1,O2 WITHIN 48.0H Comments: <i>Third epoch NICMOS observation of SN2</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(2)	GRB060729	RA: 06 21 31.8500 (95.3827083d) Dec: -62 22 12.70 (-62.37019d) Equinox: J2000		V=24.0+/-2.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F222/3	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F222M	NSAMP=22; SAMP-SEQ=SPARS 32	POS TARG -1.426,- 1.421		[==>]	[1]
	2	F222/3	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F222M	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG -1.426,1 .523		[==>]	[1]
	3	F222/3	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F222M	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG 1.528,-1 .421		[==>]	[1]
	4	F222/3	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F222M	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG 1.528,1 523		[==>]	[1]
	5	F160/3	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG -1.426,- 1.421		[==>]	[2]
	6	F160/3	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG -1.426,1 .523		[==>]	[2]
	7	F160/3	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG 1.528,-1 .421		[==>]	[2]
8	F160/3	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG 1.528,1 523		[==>]	[2]	



Proposal 10909 - Visit P2 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

Mon May 21 19:58:11 GMT 2007

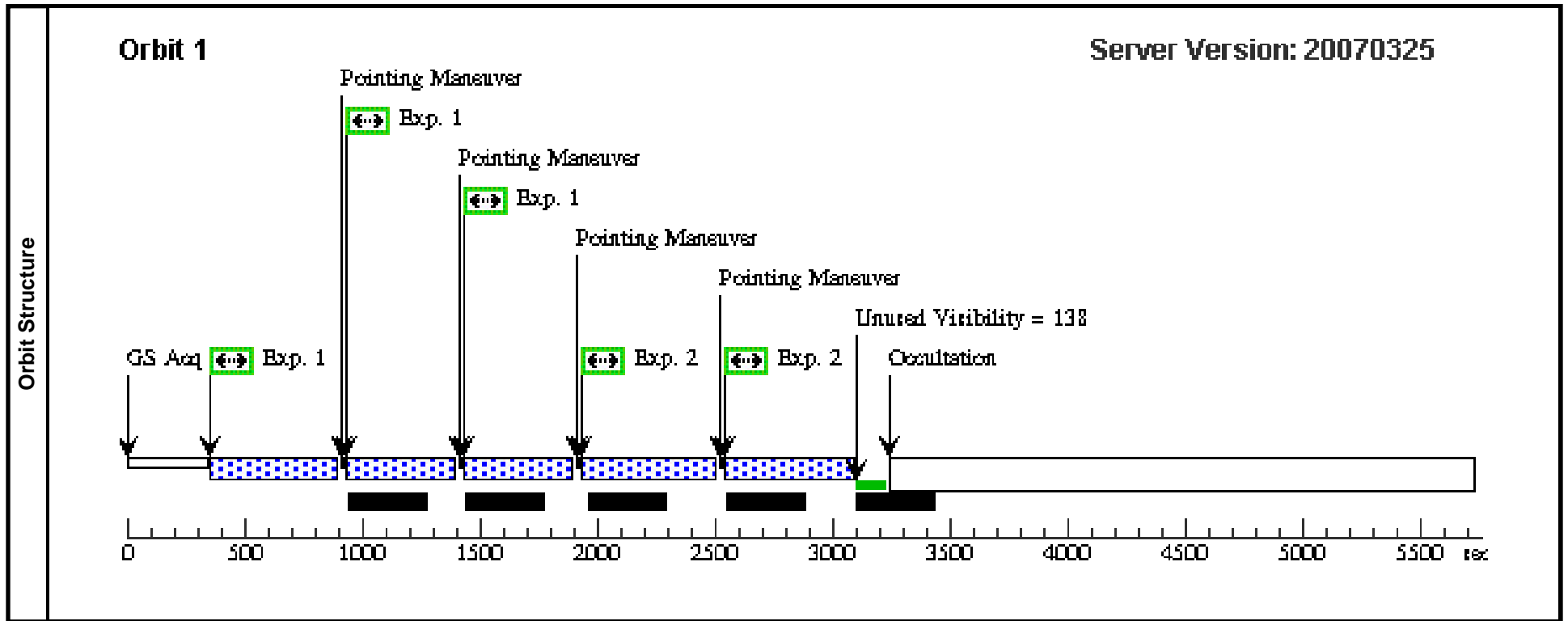
Visit	Proposal 10909, Visit P2, completed Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: AFTER O2 BY 22 D TO 30 D Comments: <i>Fourth epoch ACS/WFC observation of SN2</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false					(2)		
(4)	Pattern Type=LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false					(1)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	GRB060729	RA: 06 21 31.8500 (95.3827083d) Dec: -62 22 12.70 (-62.37019d) Equinox: J2000		V=24.0+/-2.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F625/4	(2) GRB060729	ACS/WFC, ACCUM, WFC1	F625W	CR-SPLIT=NO		Pattern 1-1 (4)	339.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
2	F850/4	(2) GRB060729	ACS/WFC, ACCUM, WFC1	F850LP	CR-SPLIT=NO		Pattern 2-2 (1)	425.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]	



Proposal 10909 - Visit Q2 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

Mon May 21 19:58:11 GMT 2007

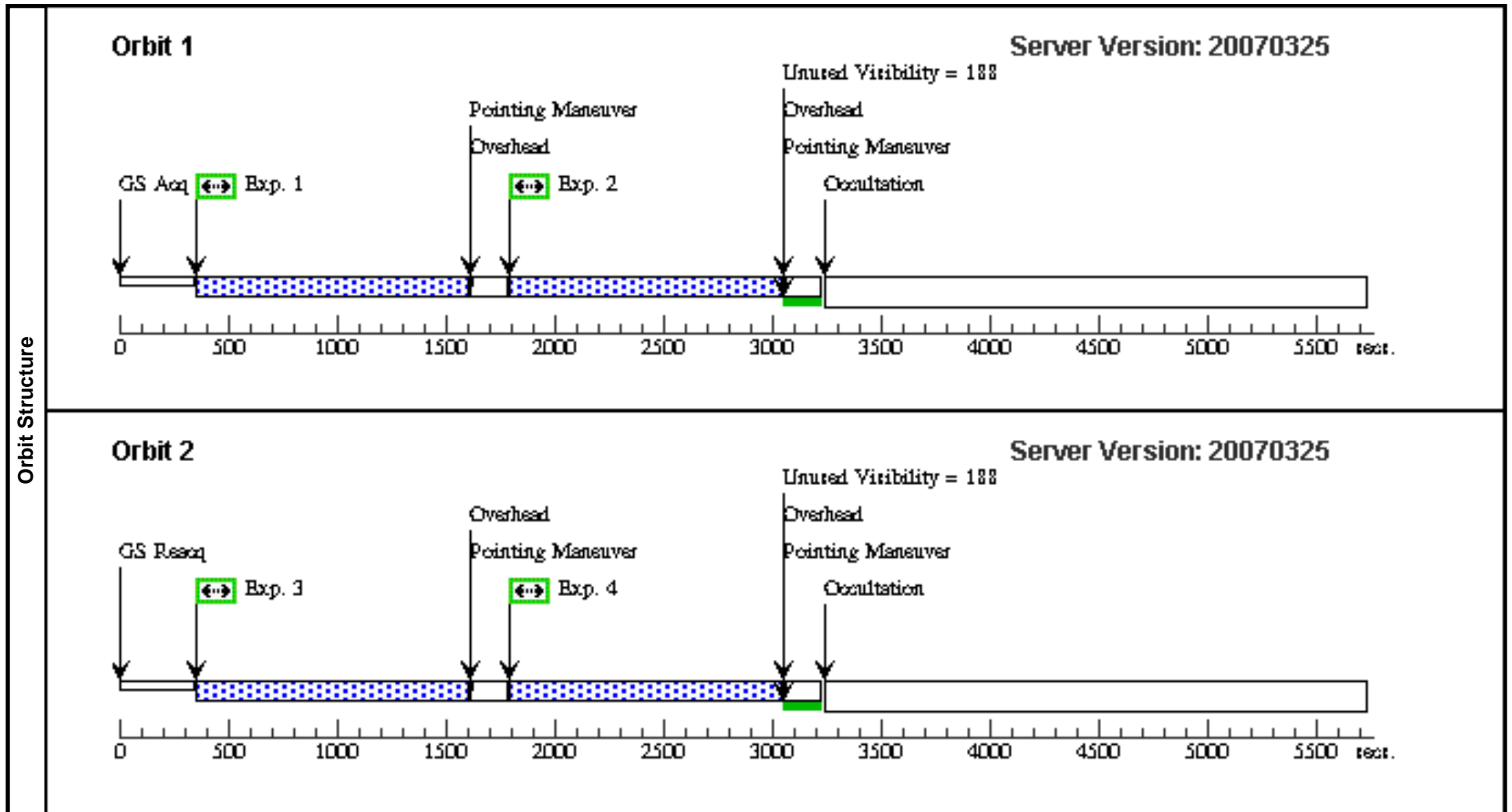
Visit	Proposal 10909, Visit Q2, completed Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: AFTER P2 BY 90 D TO 110 D Comments: <i>Fifth epoch ACS/WFC observation of SN2</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false					(2)		
(4)	Pattern Type=LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false					(1)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	GRB060729	RA: 06 21 31.8500 (95.3827083d) Dec: -62 22 12.70 (-62.37019d) Equinox: J2000		V=24.0+/-2.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F625/5	(2) GRB060729	ACS/WFC, ACCUM, WFC1	F625W	CR-SPLIT=NO		Pattern 1-1 (4)	339.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
2	F850/5	(2) GRB060729	ACS/WFC, ACCUM, WFC1	F850LP	CR-SPLIT=NO		Pattern 2-2 (1)	425.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]	

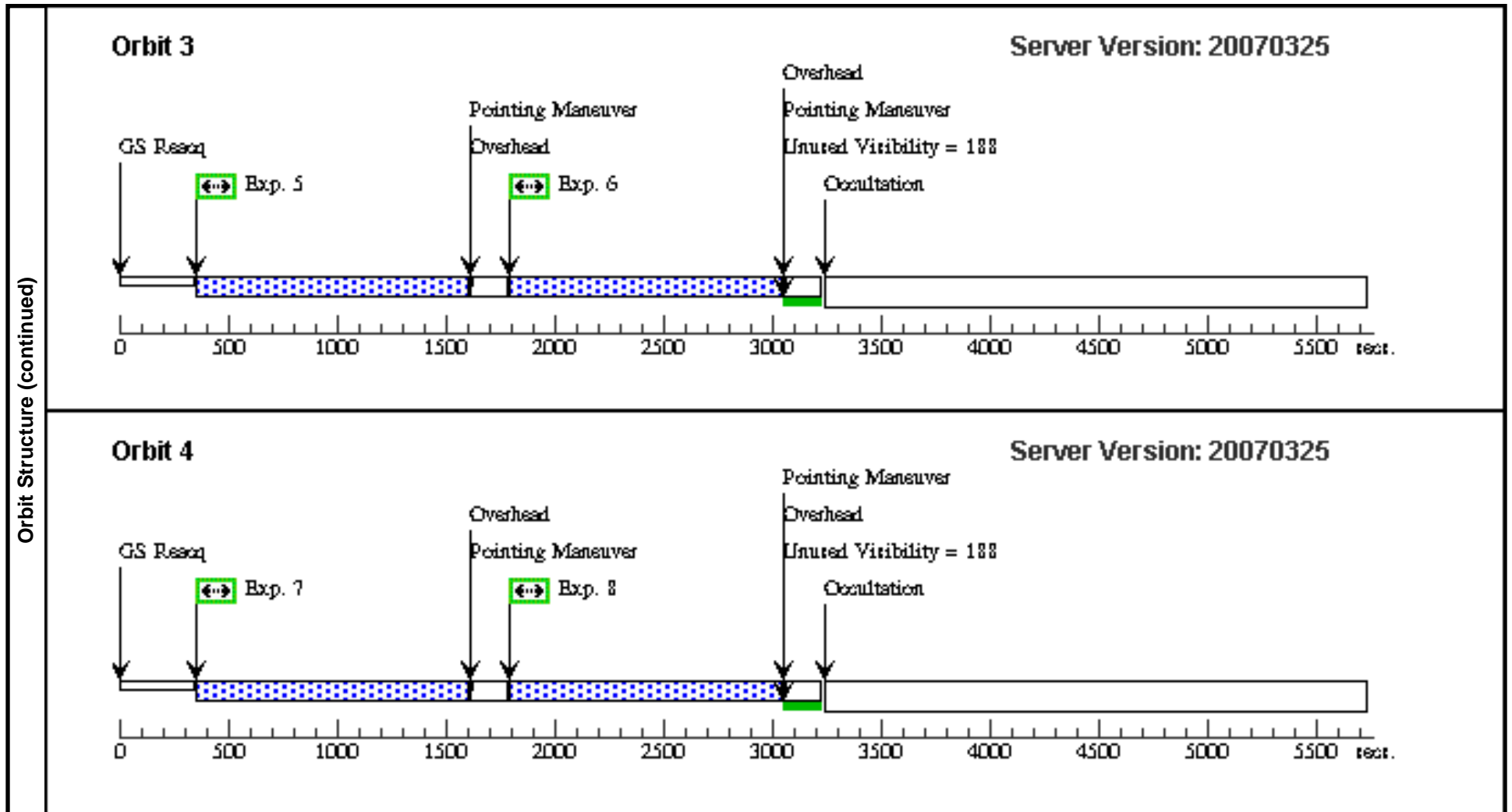


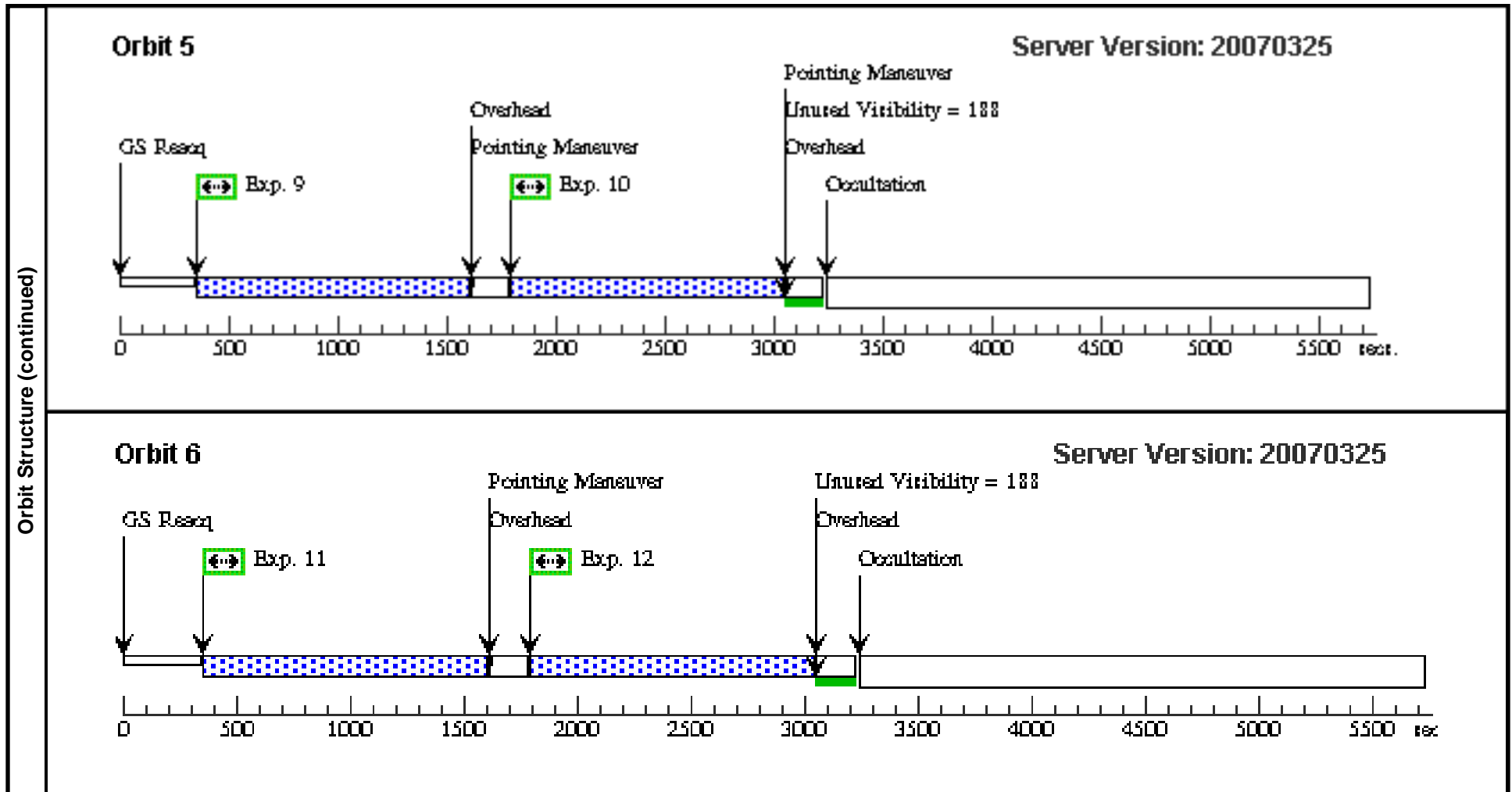
Proposal 10909 - Visit R1 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

Mon May 21 19:58:12 GMT 2007

Visit	Proposal 10909, Visit R1, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: AFTER M1 BY 400 D TO 500 D; GROUP R1,R2,R3 WITHIN 10.0D Comments: Last epoch WFPC2/UV observation of GRB 060729									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(2)	GRB060729	RA: 06 21 31.8500 (95.3827083d) Dec: -62 22 12.70 (-62.37019d) Equinox: J2000		V=24.0+/-2.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F300 last pos 1a	(2) GRB060729	WFPC2, IMAGE, WF2	F300W		POS TARG 20,-20		400.0 Secs [=>1100.0 Secs]	[1]
	2	F300 last pos 2a	(2) GRB060729	WFPC2, IMAGE, WF2	F300W		POS TARG 20.498,-19.751		400.0 Secs [=>1100.0 Secs]	[1]
	3	F300 last pos 3a	(2) GRB060729	WFPC2, IMAGE, WF2	F300W		POS TARG 20.747,-19.253		400.0 Secs [=>1100.0 Secs]	[2]
	4	F300 last pos 4a	(2) GRB060729	WFPC2, IMAGE, WF2	F300W		POS TARG 20.249,-19.502		400.0 Secs [=>1100.0 Secs]	[2]
	5	F300 last pos 5a	(2) GRB060729	WFPC2, IMAGE, WF2	F300W		POS TARG 20.149,-19.851		400.0 Secs [=>1100.0 Secs]	[3]
	6	F300 last pos 6a	(2) GRB060729	WFPC2, IMAGE, WF2	F300W		POS TARG 20.597,-19.403		400.0 Secs [=>1100.0 Secs]	[3]
	7	F300 last pos 1b	(2) GRB060729	WFPC2, IMAGE, WF2	F300W		POS TARG 20,-20		400.0 Secs [=>1100.0 Secs]	[4]
	8	F300 last pos 2b	(2) GRB060729	WFPC2, IMAGE, WF2	F300W		POS TARG 20.498,-19.751		400.0 Secs [=>1100.0 Secs]	[4]
	9	F300 last pos 3b	(2) GRB060729	WFPC2, IMAGE, WF2	F300W		POS TARG 20.747,-19.253		400.0 Secs [=>1100.0 Secs]	[5]
	10	F300 last pos 4b	(2) GRB060729	WFPC2, IMAGE, WF2	F300W		POS TARG 20.249,-19.502		400.0 Secs [=>1100.0 Secs]	[5]
	11	F300 last pos 5b	(2) GRB060729	WFPC2, IMAGE, WF2	F300W		POS TARG 20.149,-19.851		400.0 Secs [=>1100.0 Secs]	[6]
	12	F300 last pos 6b	(2) GRB060729	WFPC2, IMAGE, WF2	F300W		POS TARG 20.597,-19.403		400.0 Secs [=>1100.0 Secs]	[6]



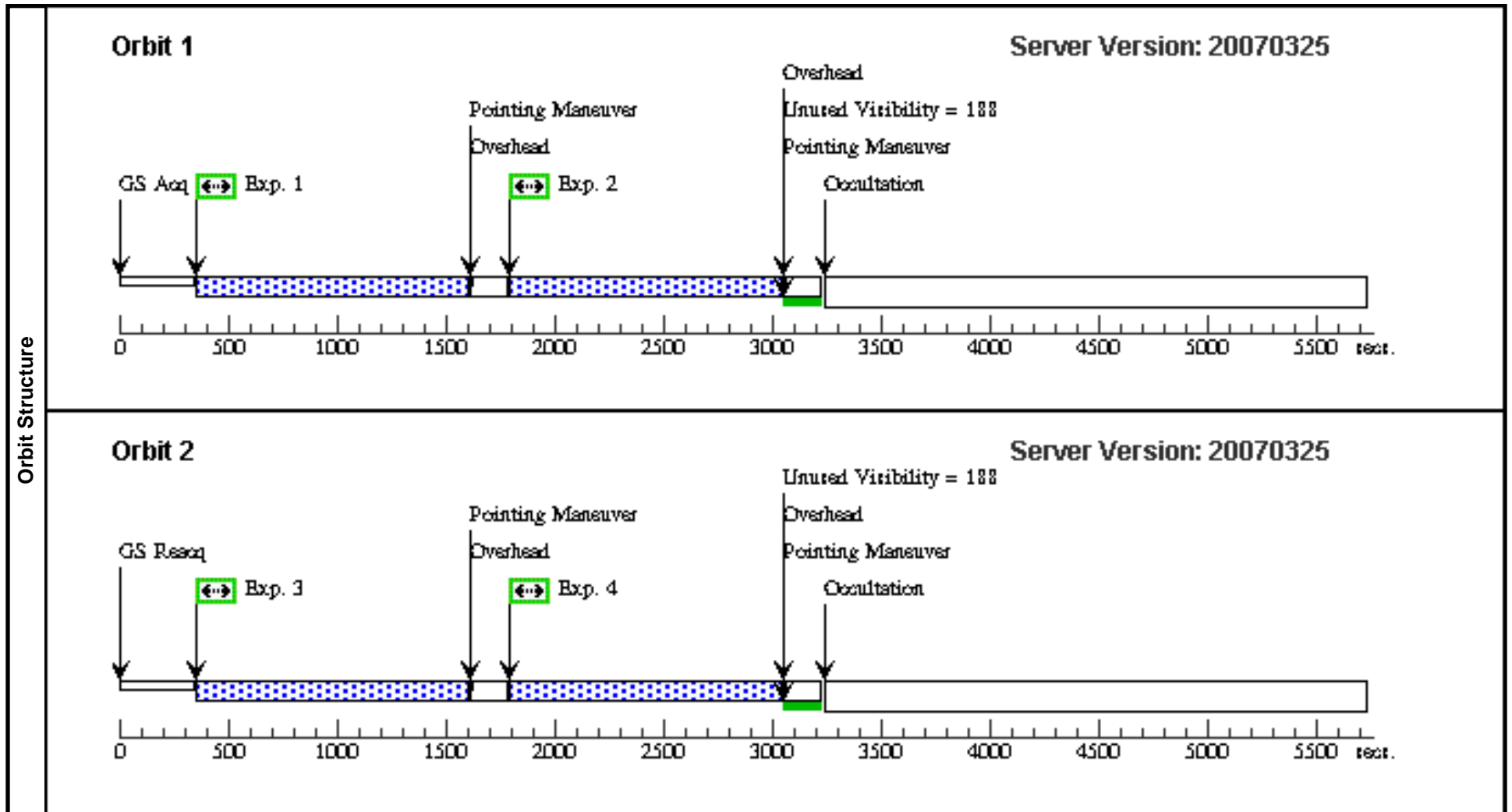


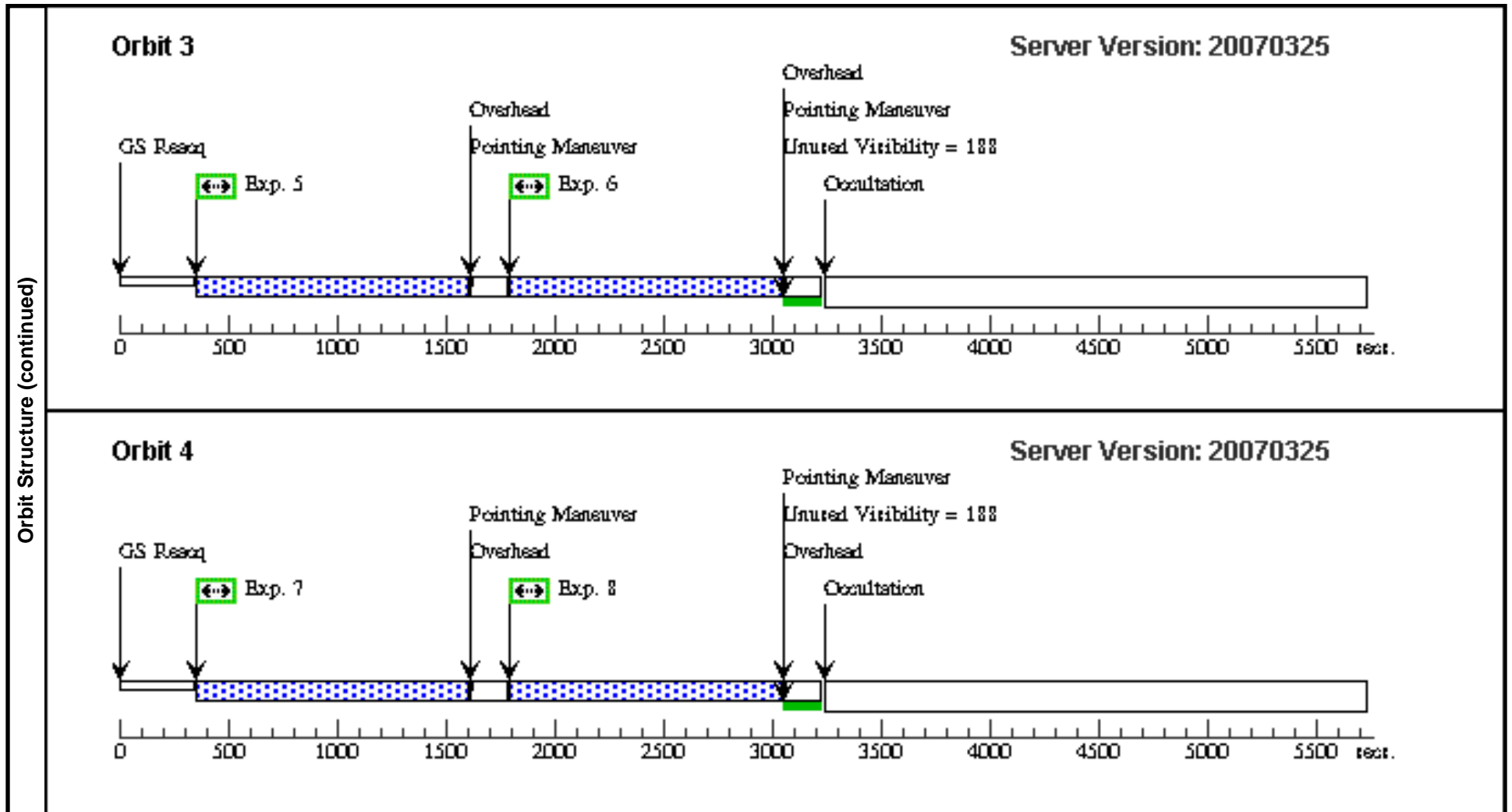


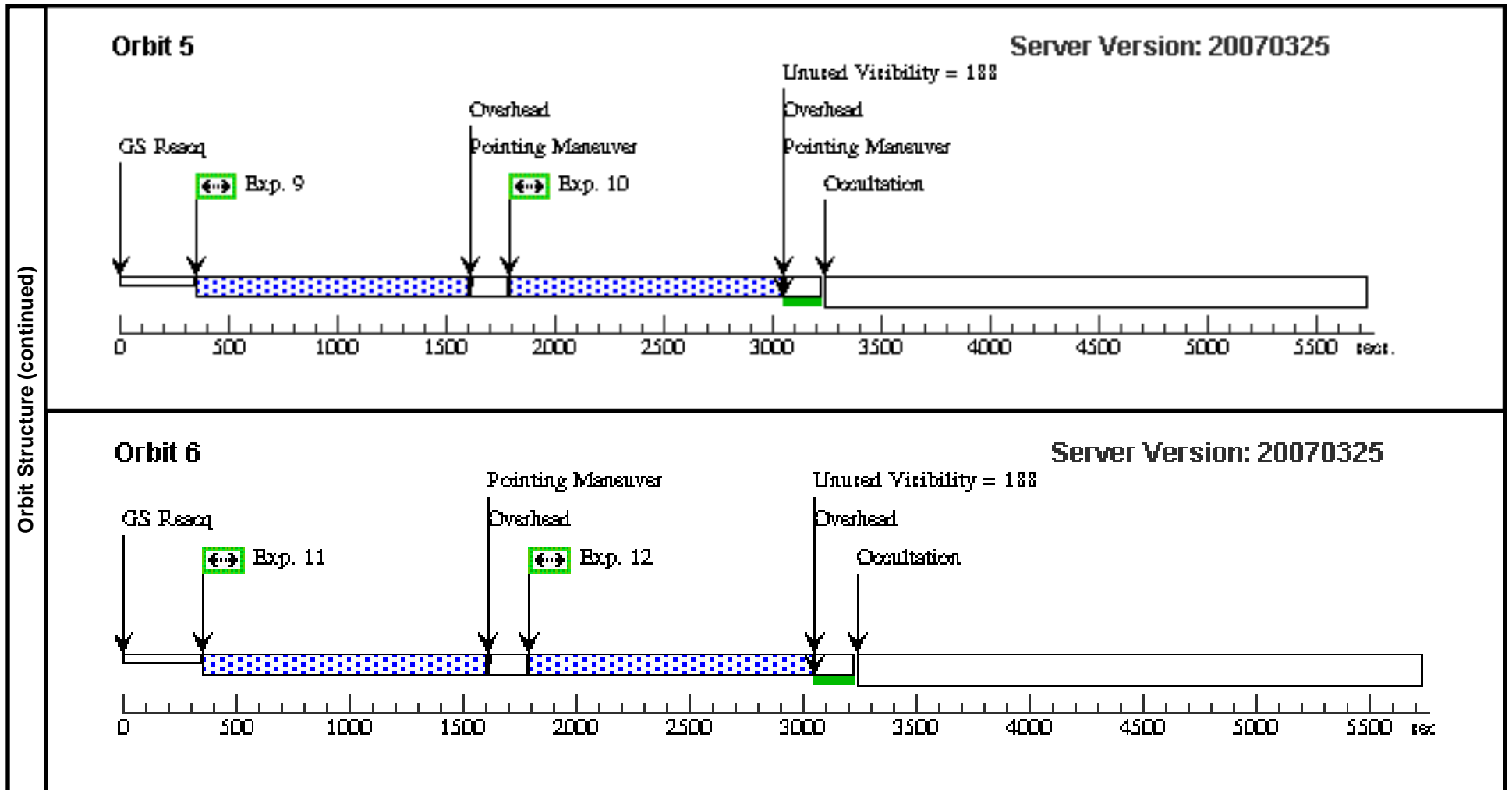
Proposal 10909 - Visit R2 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

Mon May 21 19:58:13 GMT 2007

Visit	Proposal 10909, Visit R2, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: AFTER M2 BY 400 D TO 500 D; GROUP R2,R1,R3 WITHIN 10.0D Comments: Last epoch WFPC2/opt observation of GRB 060729									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(2)	GRB060729	RA: 06 21 31.8500 (95.3827083d) Dec: -62 22 12.70 (-62.37019d) Equinox: J2000		V=24.0+/-2.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F622 last pos 1	(2) GRB060729	WFPC2, IMAGE, WF2	F622W		POS TARG 20,-20		500.0 Secs [=>1100.0 Secs]	[1]
	2	F622 last pos 2	(2) GRB060729	WFPC2, IMAGE, WF2	F622W		POS TARG 20.498,-19.751		500.0 Secs [=>1100.0 Secs]	[1]
	3	F622 last pos 3	(2) GRB060729	WFPC2, IMAGE, WF2	F622W		POS TARG 20.747,-19.253		500.0 Secs [=>1100.0 Secs]	[2]
	4	F622 last pos 4	(2) GRB060729	WFPC2, IMAGE, WF2	F622W		POS TARG 20.249,-19.502		500.0 Secs [=>1100.0 Secs]	[2]
	5	F622 last pos 5	(2) GRB060729	WFPC2, IMAGE, WF2	F622W		POS TARG 20.149,-19.851		500.0 Secs [=>1100.0 Secs]	[3]
	6	F622 last pos 6	(2) GRB060729	WFPC2, IMAGE, WF2	F622W		POS TARG 20.597,-19.403		500.0 Secs [=>1100.0 Secs]	[3]
	7	F850 last pos 1	(2) GRB060729	WFPC2, IMAGE, WF2	F850LP		POS TARG 20,-20		500.0 Secs [=>1100.0 Secs]	[4]
	8	F850 last pos 2	(2) GRB060729	WFPC2, IMAGE, WF2	F850LP		POS TARG 20.498,-19.751		500.0 Secs [=>1100.0 Secs]	[4]
	9	F850 last pos 3	(2) GRB060729	WFPC2, IMAGE, WF2	F850LP		POS TARG 20.747,-19.253		500.0 Secs [=>1100.0 Secs]	[5]
	10	F850 last pos 4	(2) GRB060729	WFPC2, IMAGE, WF2	F850LP		POS TARG 20.249,-19.502		500.0 Secs [=>1100.0 Secs]	[5]
	11	F850 last pos 5	(2) GRB060729	WFPC2, IMAGE, WF2	F850LP		POS TARG 20.149,-19.851		500.0 Secs [=>1100.0 Secs]	[6]
	12	F850 last pos 6	(2) GRB060729	WFPC2, IMAGE, WF2	F850LP		POS TARG 20.597,-19.403		500.0 Secs [=>1100.0 Secs]	[6]







Proposal 10909 - Visit R3 - Exploring the diversity of cosmic explosions: The supernovae of gamma-ray bursts

Mon May 21 19:58:15 GMT 2007

Visit	Proposal 10909, Visit R3, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: AFTER M3 BY 400 D TO 500 D; GROUP R3,R1,R2 WITHIN 10.0D <i>Comments: Last epoch NICMOS observation of GRB 060729</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(2)	GRB060729	RA: 06 21 31.8500 (95.3827083d) Dec: -62 22 12.70 (-62.37019d) Equinox: J2000		V=24.0+/-2.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	F222/last	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F222M	NSAMP=22; SAMP-SEQ=SPARS 32	POS TARG -1.426,- 1.421		[==>]	[1]
	2	F222/last	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F222M	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG -1.426,1 .523		[==>]	[1]
	3	F222/last	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F222M	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG 1.528,-1 .421		[==>]	[1]
	4	F222/last	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F222M	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG 1.528,1 523		[==>]	[1]
	5	F160/last	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG -1.426,- 1.421		[==>]	[2]
	6	F160/last	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG -1.426,1 .523		[==>]	[2]
	7	F160/last	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG 1.528,-1 .421		[==>]	[2]
8	F160/last	(2) GRB060729	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 32; NSAMP=22	POS TARG 1.528,1 523		[==>]	[2]	

