



17472 - Gamma-ray burst supernovae across cosmic time

Cycle: 31, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Prof. Andrew James Levan (PI) (ESA Member) (Contact)	Radboud Universiteit Nijmegen
Dr. Luca Izzo (CoI) (ESA Member)	University of Copenhagen, Niels Bohr Institute
Prof. Jens Hjorth (CoI) (ESA Member)	University of Copenhagen, Niels Bohr Institute
Dr. Andrew S. Fruchter (CoI) (AdminUSPI)	Space Telescope Science Institute
Prof. Nial Rahil Tanvir (CoI) (ESA Member)	University of Leicester

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>
L1	(1) GRB1	WFC3/IR	1	08-May-2024 18:00:17.0	yes
L2	(1) GRB1	WFC3/UVIS	1	08-May-2024 18:00:17.0	yes
L3	(1) GRB1	WFC3/IR	1	08-May-2024 18:00:18.0	yes
L4	(1) GRB1	WFC3/UVIS	1	08-May-2024 18:00:18.0	yes
L5	(1) GRB1	WFC3/IR	1	08-May-2024 18:00:19.0	yes
L6	(1) GRB1	WFC3/UVIS	1	08-May-2024 18:00:19.0	yes
L7	(1) GRB1	WFC3/IR	2	08-May-2024 18:00:20.0	yes
L8	(1) GRB1	WFC3/UVIS	2	08-May-2024 18:00:21.0	yes
M1	(4) GRB230818A	WFC3/IR	1	08-May-2024 18:00:21.0	yes
M2	(4) GRB230818A	WFC3/UVIS	1	08-May-2024 18:00:21.0	yes

Proposal 17472 (STScI Edit Number: 4, Created: Wednesday, May 8, 2024 at 5:00:32 PM Eastern Standard Time) - 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>
M3	(4) GRB230818A	WFC3/IR	1	08-May-2024 18:00:22.0	yes
M4	(4) GRB230818A	WFC3/UVIS	1	08-May-2024 18:00:22.0	yes
M7	(4) GRB230818A	WFC3/IR	1	08-May-2024 18:00:23.0	yes
M8	(4) GRB230818A	WFC3/UVIS	1	08-May-2024 18:00:23.0	yes
M5	(4) GRB230818A	WFC3/IR	1	08-May-2024 18:00:24.0	yes
M6	(4) GRB230818A	WFC3/UVIS	1	08-May-2024 18:00:24.0	yes
H1	(3) GRB3	WFC3/IR	1	08-May-2024 18:00:25.0	yes
H2	(3) GRB3	WFC3/UVIS	1	08-May-2024 18:00:25.0	yes
H3	(3) GRB3	WFC3/IR	1	08-May-2024 18:00:26.0	yes
H4	(3) GRB3	WFC3/UVIS	1	08-May-2024 18:00:26.0	yes
H5	(3) GRB3	WFC3/IR	1	08-May-2024 18:00:27.0	yes
H6	(3) GRB3	WFC3/UVIS	1	08-May-2024 18:00:27.0	yes
H7	(3) GRB3	WFC3/IR	2	08-May-2024 18:00:28.0	yes
H8	(3) GRB3	WFC3/UVIS	2	08-May-2024 18:00:29.0	yes
B1	(5) GRB240414A	WFC3/IR	1	08-May-2024 18:00:29.0	yes
B2	(5) GRB240414A	WFC3/UVIS	1	08-May-2024 18:00:30.0	yes
B3	(5) GRB240414A	WFC3/IR	1	08-May-2024 18:00:30.0	yes
B4	(5) GRB240414A	WFC3/UVIS	1	08-May-2024 18:00:31.0	yes
B5	(5) GRB240414A	WFC3/IR	2	08-May-2024 18:00:31.0	yes
B6	(5) GRB240414A	WFC3/UVIS	2	08-May-2024 18:00:32.0	yes

36 Total Orbits Used

ABSTRACT

Long-duration gamma-ray bursts (GRBs) are the most luminous stellar explosions in nature and are associated with the collapse of massive stars. GRBs are bright enough to see at great distances, with a median redshift of $z > 2$ and some GRBs seen out to $z > 8$, perhaps even $z > 9$. Therefore, they pinpoint the locations of supernovae at distances where we have never directly observed them. Here we propose to measure the evolution of three

GRB supernovae at $1.5 < z < 3$ for the first time. These observations give us the ability to test if supernovae (in particular GRB-SNe) change with redshift. Differences in metallicity and stellar winds are quite likely to alter the evolution of massive stars with redshift. This is especially true if rare pathways only accessible at low metallicities, such as chemically homogeneous evolution, begin to dominate the lives of GRB progenitors. Since supernovae are a vital feedback mechanism to the interstellar and intergalactic medium via elements ejection and winds, a change in the properties of supernovae could have significant implications not only for the progenitors of GRBs but also for galaxy evolution more generally. Our photometric observations will determine the peak magnitude and decay, while a single JWST spectrum at peak will measure composition and velocities. This will provide a measurement of radioactive nickel production and luminosity. From this, we can begin to ascertain how the properties of GRB progenitors, and by extension massive stars, vary over cosmic time.

OBSERVING DESCRIPTION

Our aim is to study the evolution of GRB supernovae at $1.5 < z < 3.0$ via 5 epochs of HST imaging (4 during the SN phase and one late time template). At each epoch we will obtain an optical (rest-frame UV) observation to track the afterglow and an IR (rest-frame optical) filter to track the supernova. We have set three possible set-ups depending on the redshift of the supernova and the available ground based data (F606W/F125W, F606W/F140W and F606W/F160W) and we will use different IR filters depending on the redshift in order to track the supernova at similar rest-frame wavelengths.

At each epochs we will use 1 orbit visits in each filter with a 4-point dither. The visit should be scheduled within +/- 2 days of each other. At later epochs we will switch to 2 orbit visits per filter with an 8-point dither in the IR and a 6 point dither in the optical. Our observational plan is to ask for observations $\sim 10-15 \times (1+z)$ days apart and so we will schedule the first two epochs of observations at one time, but make adjust our strategy for the later observations on the basis of the outcome of the first observations.

We will observe 3 supernovae in total with 30 orbits in Cycle 31 and 12 in Cycle 32 for host subtraction. However, because of differences in supernovae (redshift, hosts etc) we may not use 10 orbits per SNe.

Proposal 17472 - Visit L1 - Gamma-ray burst supernovae across cosmic time

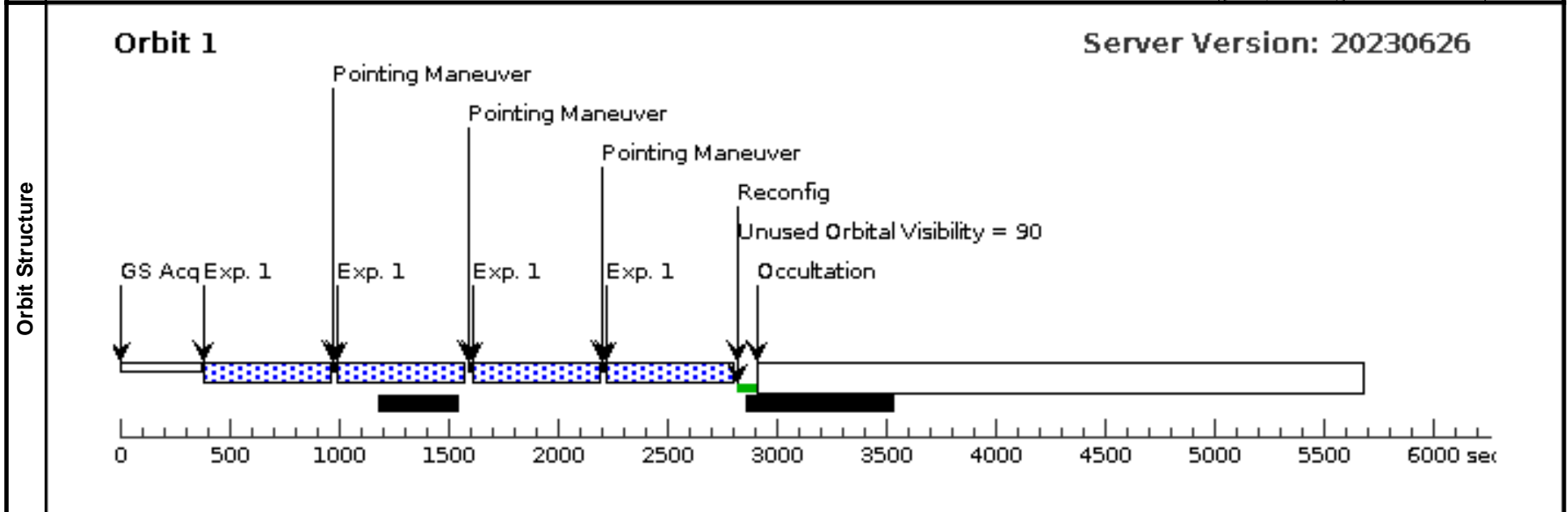
Wed May 08 22:00:32 GMT 2024

Visit	Proposal 17472, Visit L1, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ON HOLD ; TOO RESPONSE TIME 21.0D <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
	(1)	GRB1	GRB detection at $\sim 1.5 < z < 3.0$	

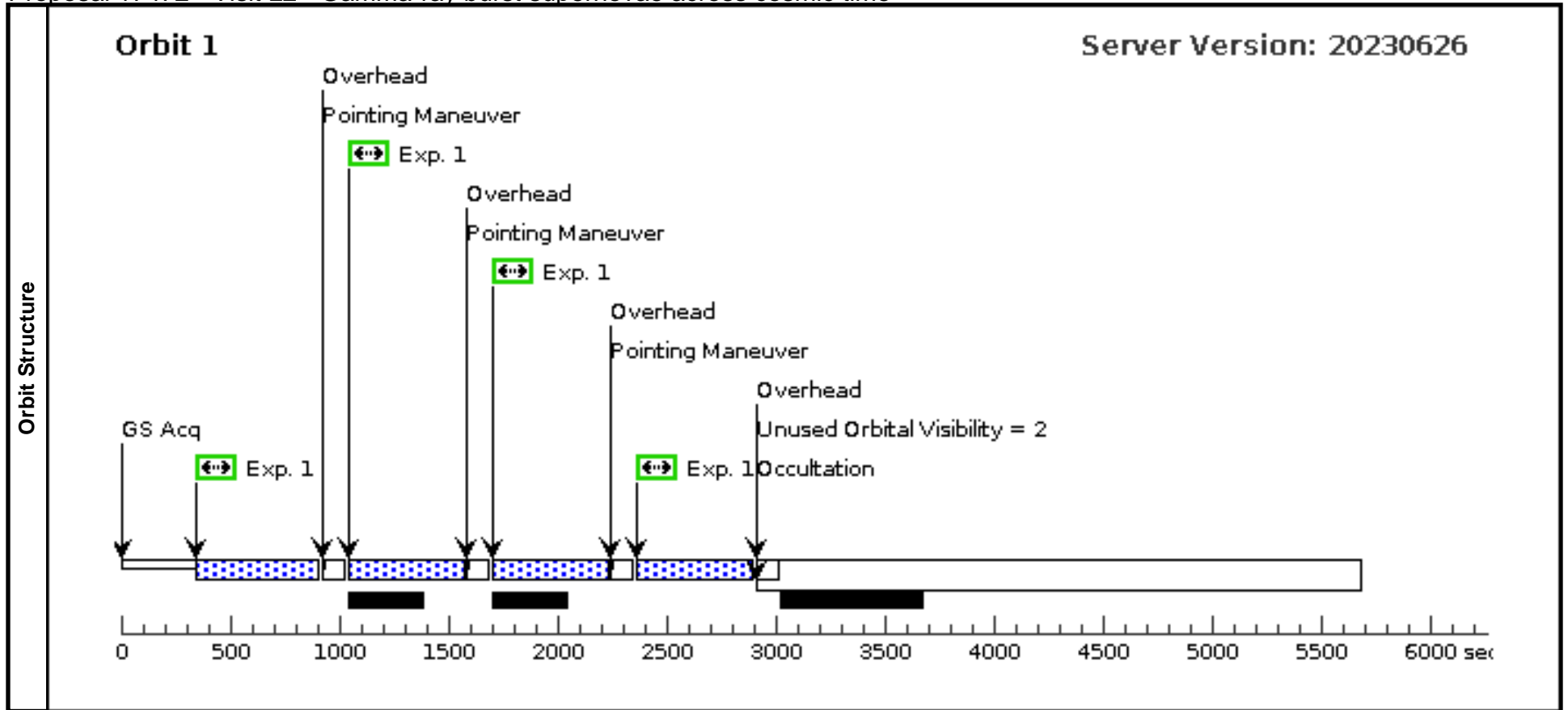
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) GRB1	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=SPARS 50; NSAMP=12		Pattern 1, Exps 1-1 in Visit L1 (1)	552.937252 Secs (2211.749 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 17472 - Visit L2 - Gamma-ray burst supernovae across cosmic time

Wed May 08 22:00:32 GMT 2024

Visit	Proposal 17472, Visit L2, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 100%; GROUP L2,L1 WITHIN 2D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Awaiting GRB trigger</i>										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
(2)		Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112		Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(1)		
Generic Targets	#	Name	Criteria		Description						
	(1)	GRB1	GRB detection at $\sim 1.5 < z < 3.0$								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(1) GRB1		WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -65,-30	Pattern 2, Exps 1-1 in Visit L2 (2)	370 Secs (2136 Secs)		
									[=>534.0 Secs (Pattern 1)]		
									[=>534.0 Secs (Pattern 2)]		
									[=>534.0 Secs (Pattern 3)]		
									[=>534.0 Secs (Pattern 4)]		[1]



Proposal 17472 - Visit L3 - Gamma-ray burst supernovae across cosmic time

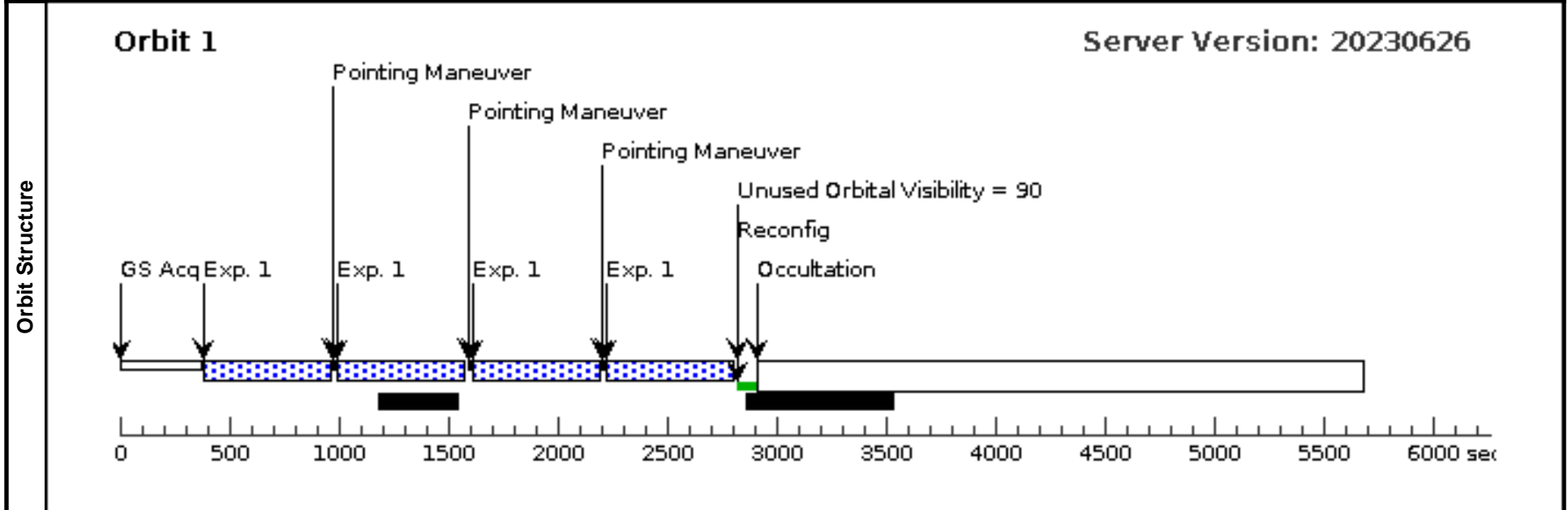
Wed May 08 22:00:32 GMT 2024

Visit	Proposal 17472, Visit L3, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ON HOLD ; TOO RESPONSE TIME 21.0D <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	

Generic Targets	#	Name	Criteria	Description
	(1)	GRB1		GRB detection at $\sim 1.5 < z < 3.0$

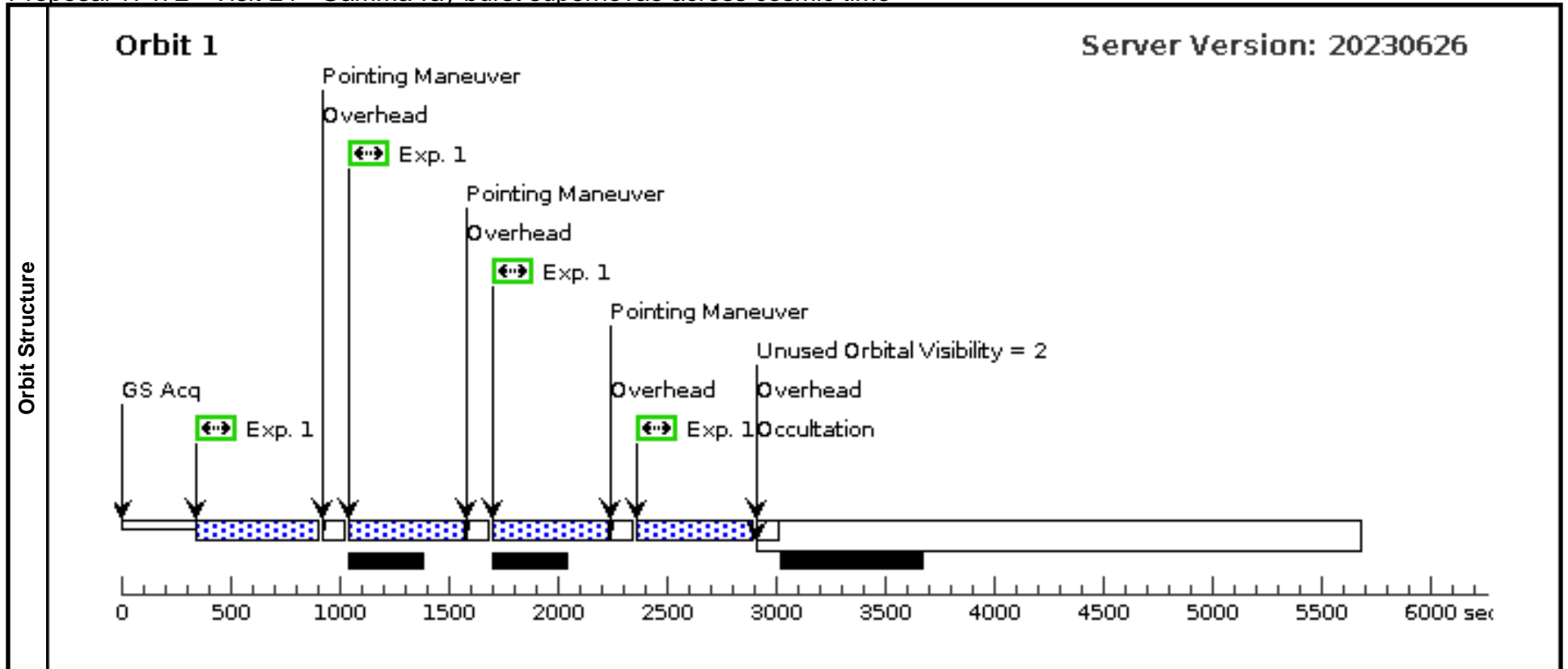
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) GRB1		WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=SPARS 50; NSAMP=12			Pattern 1, Exps 1-1 in Visit L3 (1)	552.937252 Secs (2211.749 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]



Proposal 17472 - Visit L4 - Gamma-ray burst supernovae across cosmic time

Wed May 08 22:00:32 GMT 2024

Visit	Proposal 17472, Visit L4, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 100%; GROUP L4,L1 WITHIN 2D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Awaiting GRB trigger</i>										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
(2)		Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112		Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(1)		
Generic Targets	#	Name	Criteria		Description						
	(1)	GRB1	GRB detection at $\sim 1.5 < z < 3.0$								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(1) GRB1	(1) GRB1	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -65,-30	Pattern 2, Exps 1-1 in Visit L4 (2)	370 Secs (2136 Secs) [=>534.0 Secs (Pattern 1)] [=>534.0 Secs (Pattern 2)] [=>534.0 Secs (Pattern 3)] [=>534.0 Secs (Pattern 4)]		[1]



Proposal 17472 - Visit L5 - Gamma-ray burst supernovae across cosmic time

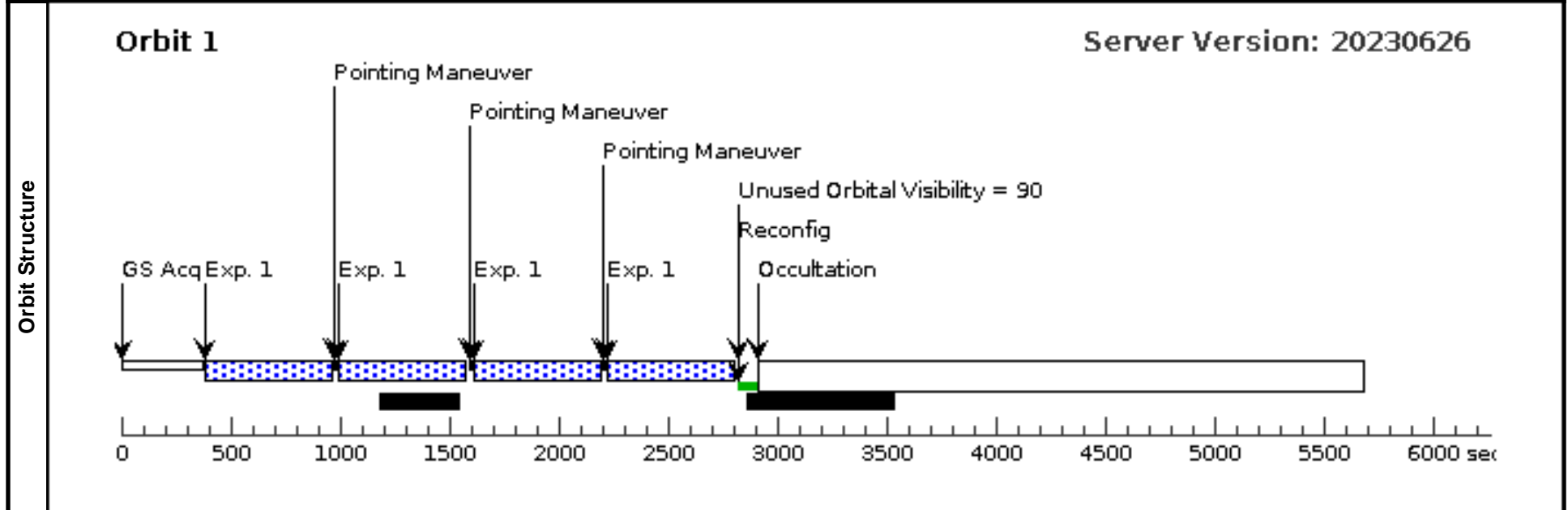
Wed May 08 22:00:32 GMT 2024

Visit	Proposal 17472, Visit L5, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ON HOLD ; TOO RESPONSE TIME 21.0D <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
	(1)	GRB1	GRB detection at $\sim 1.5 < z < 3.0$	

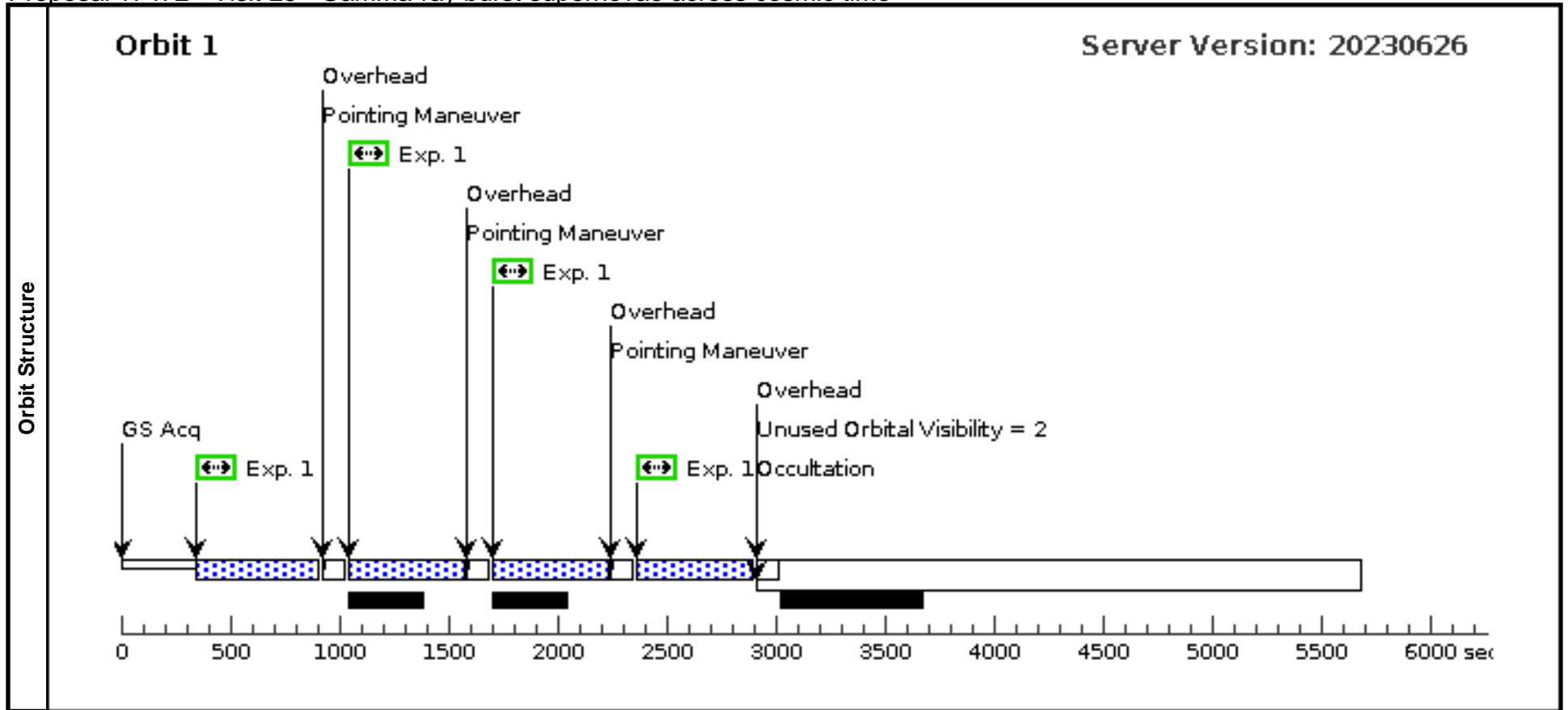
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) GRB1		WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=SPARS 50; NSAMP=12		Pattern 1, Exps 1-1 in Visit L5 (1)	552.937252 Secs (2211.749 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 17472 - Visit L6 - Gamma-ray burst supernovae across cosmic time

Wed May 08 22:00:33 GMT 2024

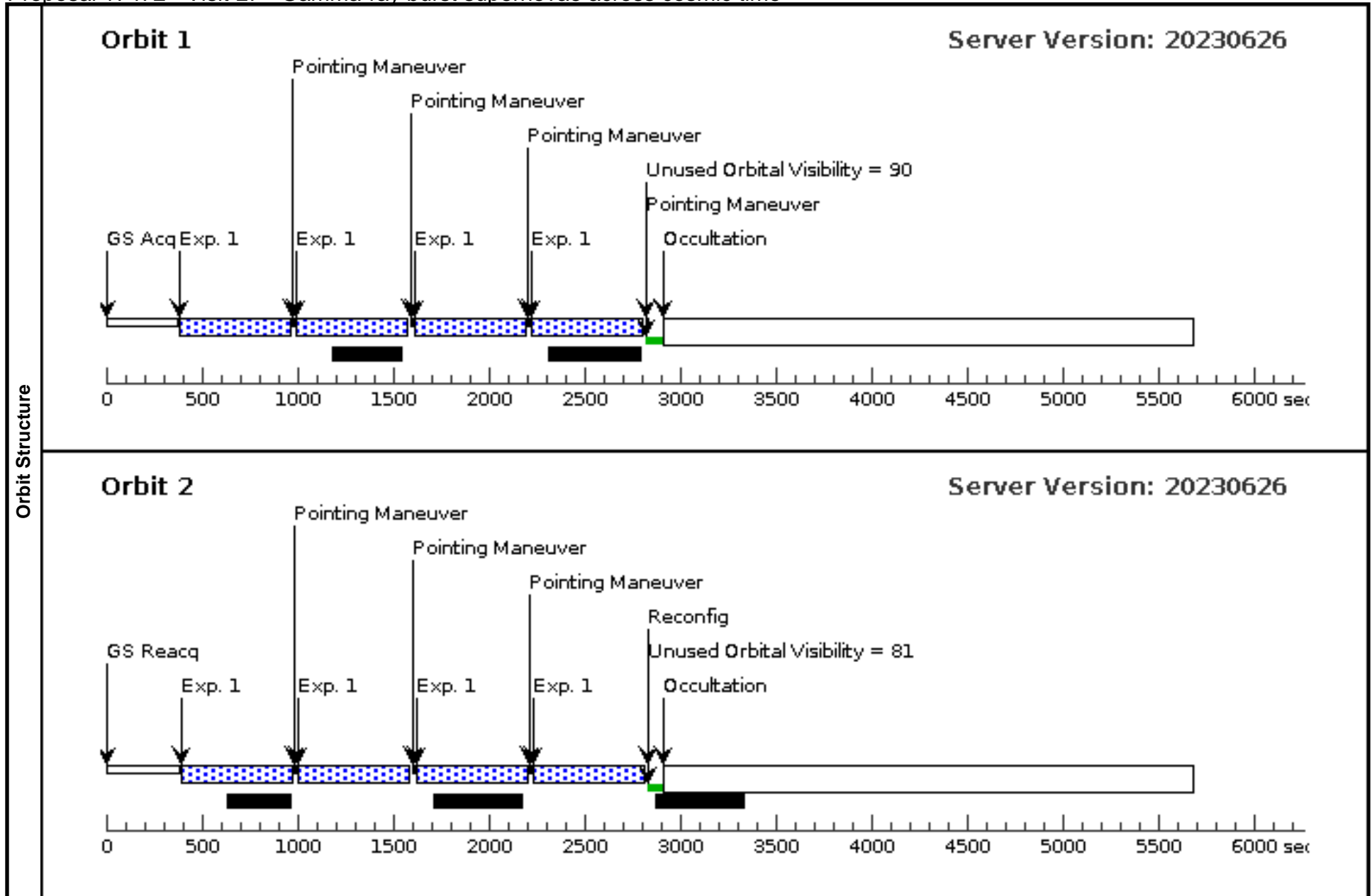
Visit	Proposal 17472, Visit L6, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 100%; GROUP L6,L1 WITHIN 2D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Awaiting GRB trigger</i>									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
(2)		Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112		Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(1)	
Generic Targets	#	Name	Criteria		Description					
	(1)	GRB1	GRB detection at $\sim 1.5 < z < 3.0$							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) GRB1	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -65,-30	Pattern 2, Exps 1-1 in Visit L6 (2)	370 Secs (2136 Secs)	[=>534.0 Secs (Pattern 1)] [=>534.0 Secs (Pattern 2)] [=>534.0 Secs (Pattern 3)] [=>534.0 Secs (Pattern 4)]	[1]



Proposal 17472 - Visit L7 - Gamma-ray burst supernovae across cosmic time

Wed May 08 22:00:33 GMT 2024

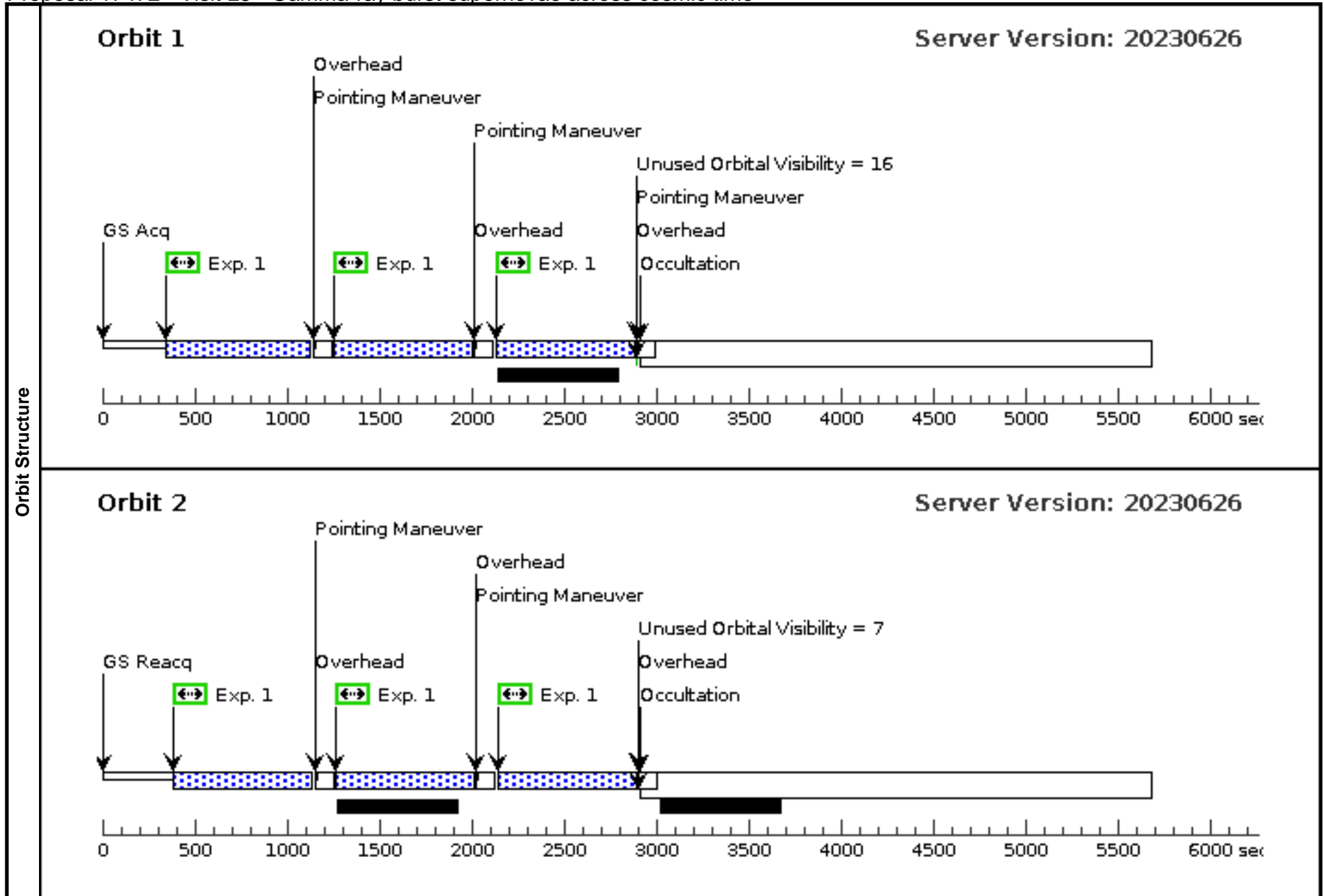
Visit	Proposal 17472, Visit L7, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Awaiting GRB trigger</i>									
	Patterns	#	Primary Pattern				Secondary Pattern			
		(4)	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false	(1)			
Generic Targets	#	Name	Criteria	Description						
	(1)	GRB1	GRB detection at $\sim 1.5 < z < 3.0$							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) GRB1	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=SPARS 50; NSAMP=12		Pattern 4, Exps 1-1 i n Visit L7 (4)	552.937252 Secs (4423.498 Secs)	
									[=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 1,3)] [=>(Pattern 1,4)]	[1]
									[=>(Pattern 2,1)] [=>(Pattern 2,2)] [=>(Pattern 2,3)] [=>(Pattern 2,4)]	[2]



Proposal 17472 - Visit L8 - Gamma-ray burst supernovae across cosmic time

Wed May 08 22:00:33 GMT 2024

Visit	Proposal 17472, Visit L8, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 100%; GROUP L8,L1 WITHIN 2D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Awaiting GRB trigger</i>									
	Patterns	#	Primary Pattern				Secondary Pattern			
(3)		Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.099 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=3.9 Angle Between Sides= Center Pattern=false	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(1)				
Generic Targets	#	Name	Criteria			Description				
	(1)	GRB1	GRB detection at $\sim 1.5 < z < 3.0$							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) GRB1	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -65,-30	Pattern 3, Exps 1-1 i n Visit L8 (3)	750 Secs (4500 Secs)		
								[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 1,3)]	[1]	
								[==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 2,3)]	[2]	



Proposal 17472 - Visit M1 - Gamma-ray burst supernovae across cosmic time

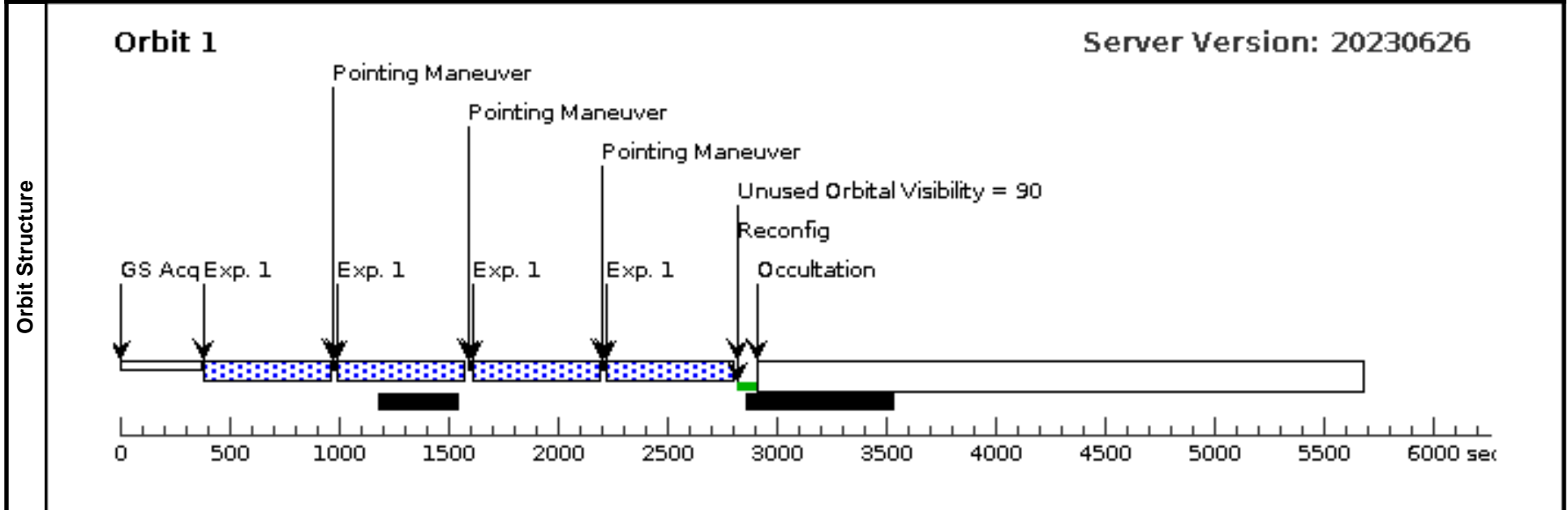
Wed May 08 22:00:33 GMT 2024

Visit	Proposal 17472, Visit M1, completed		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: SCHED 100%; BEFORE 22-OCT-2023:00:00:00		

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)	GRB230818A	RA: 19 03 33.1200 (285.8880000d) Dec: +40 53 49.10 (40.89697d) Equinox: J2000		V=27+/-2	Reference Frame: ICRS
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA]					

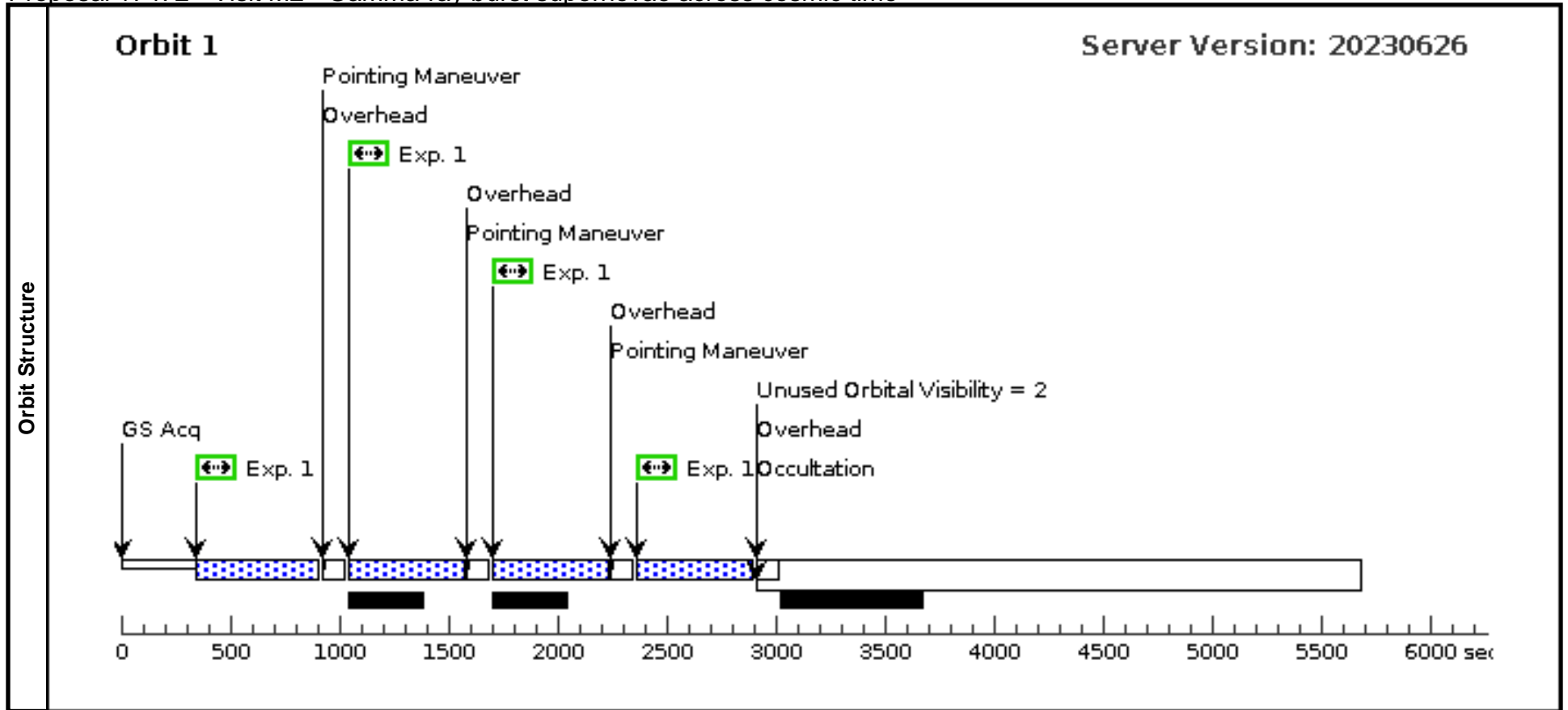
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(4) GRB230818A	WFC3/IR, MULTIACCUM, IR	F140W	SAMP-SEQ=SPARS 50; NSAMP=12		Pattern 1, Exps 1-1 in Visit M1 (1)	552.937252 Secs (2211.749 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 17472 - Visit M2 - Gamma-ray burst supernovae across cosmic time

Wed May 08 22:00:33 GMT 2024

Visit	Proposal 17472, Visit M2, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 100%; GROUP M2,M1 WITHIN 1D										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
		(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false						(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(4)	GRB230818A	RA: 19 03 33.1200 (285.8880000d) Dec: +40 53 49.10 (40.89697d) Equinox: J2000				V=27+/-2		Reference Frame: ICRS		
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(4) GRB230818A	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -65,-30	Pattern 2, Exps 1-1 in Visit M2 (2)	370 Secs (2136 Secs) [=>534.0 Secs (Pattern 1)] [=>534.0 Secs (Pattern 2)] [=>534.0 Secs (Pattern 3)] [=>534.0 Secs (Pattern 4)]	[1]	



Proposal 17472 - Visit M3 - Gamma-ray burst supernovae across cosmic time

Wed May 08 22:00:33 GMT 2024

Visit	Proposal 17472, Visit M3, failed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%		

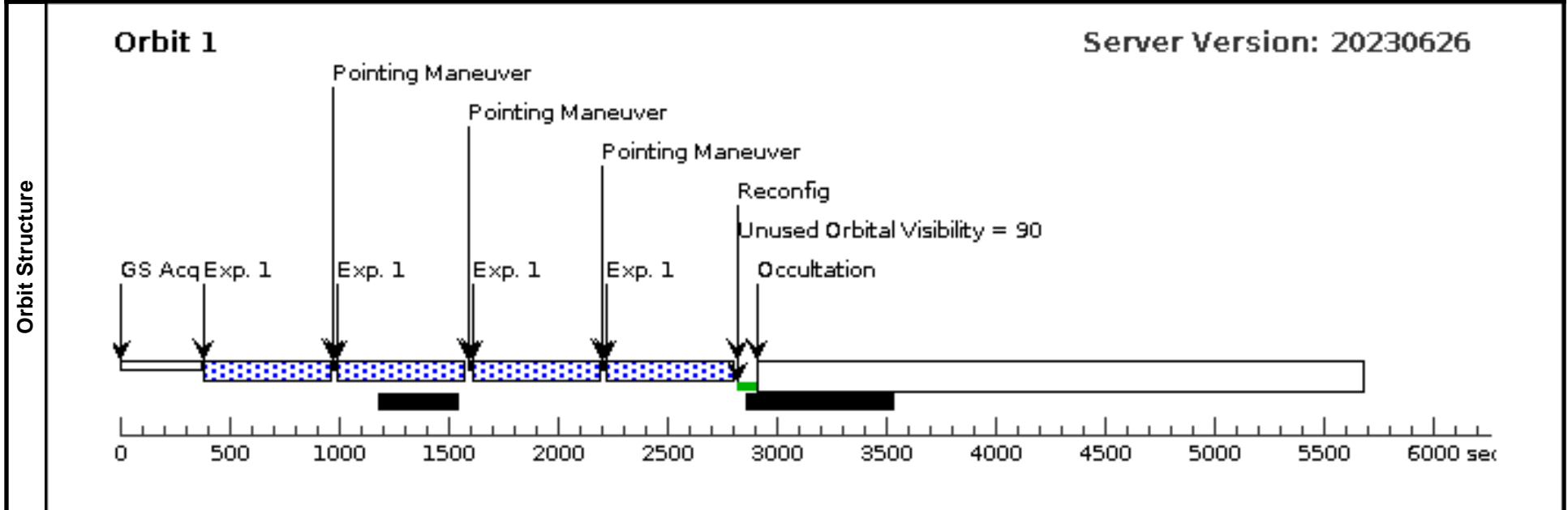
Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	GRB230818A	RA: 19 03 33.1200 (285.8880000d) Dec: +40 53 49.10 (40.89697d) Equinox: J2000		V=27+/-2	Reference Frame: ICRS

Comments:
 Category=EXT-STAR
 Description=[SUPERNOVA]

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(4) GRB230818A	WFC3/IR, MULTIACCUM, IR	F140W	SAMP-SEQ=SPARS 50; NSAMP=12			Pattern 1, Exps 1-1 in Visit M3 (1)	552.937252 Secs (2211.749 Secs)

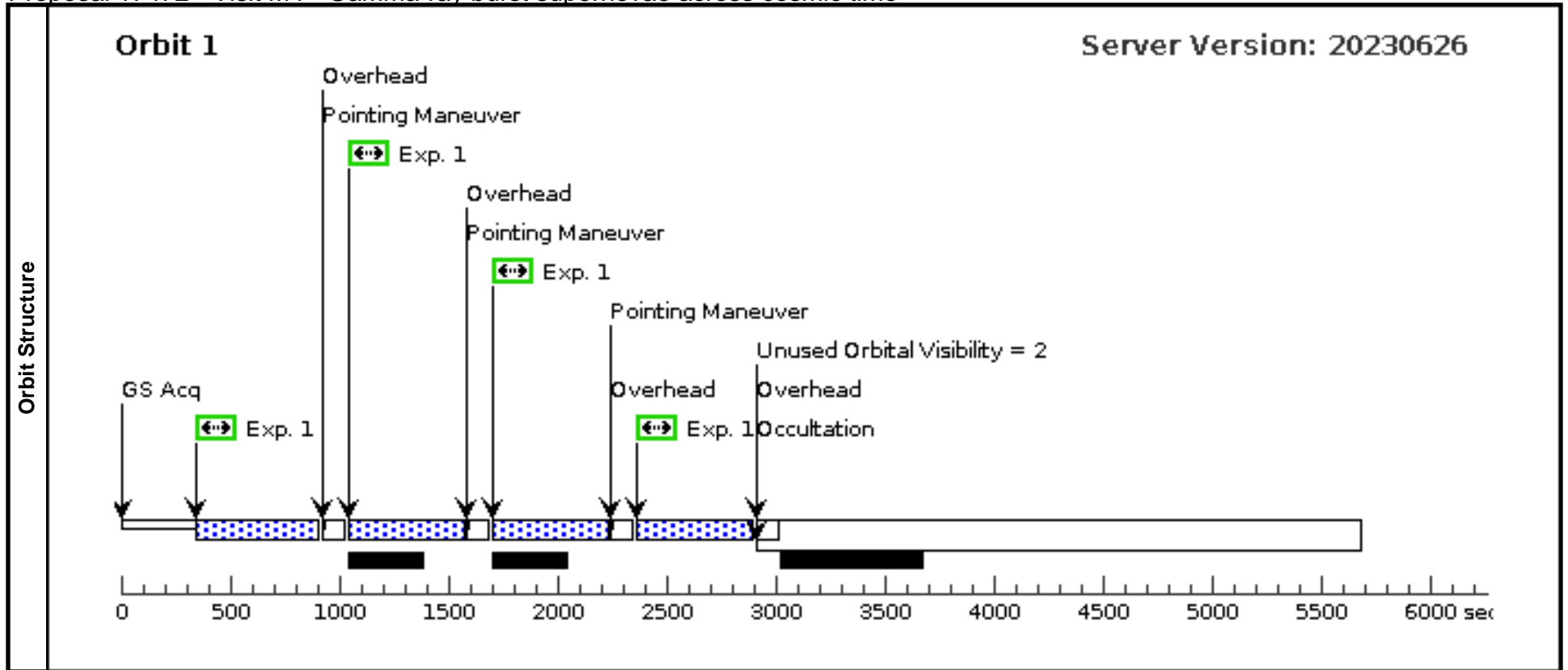
[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]
 [=>(Pattern 4)]



Proposal 17472 - Visit M4 - Gamma-ray burst supernovae across cosmic time

Wed May 08 22:00:33 GMT 2024

Visit	Proposal 17472, Visit M4, failed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 100%; AFTER M1 BY 24 D TO 32 D; GROUP M4,M3 WITHIN 1D										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
(2)		Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112		Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(4)	GRB230818A	RA: 19 03 33.1200 (285.8880000d) Dec: +40 53 49.10 (40.89697d) Equinox: J2000				V=27+/-2		Reference Frame: ICRS		
Comments: Category=EXT-STAR Description=[SUPERNOVA]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(4) GRB230818A	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -65,-30	Pattern 2, Exps 1-1 i n Visit M4 (2)	370 Secs (2136 Secs) [=>534.0 Secs (Pattern 1)] [=>534.0 Secs (Pattern 2)] [=>534.0 Secs (Pattern 3)] [=>534.0 Secs (Pattern 4)]		[1]



Proposal 17472 - Visit M7 - Gamma-ray burst supernovae across cosmic time

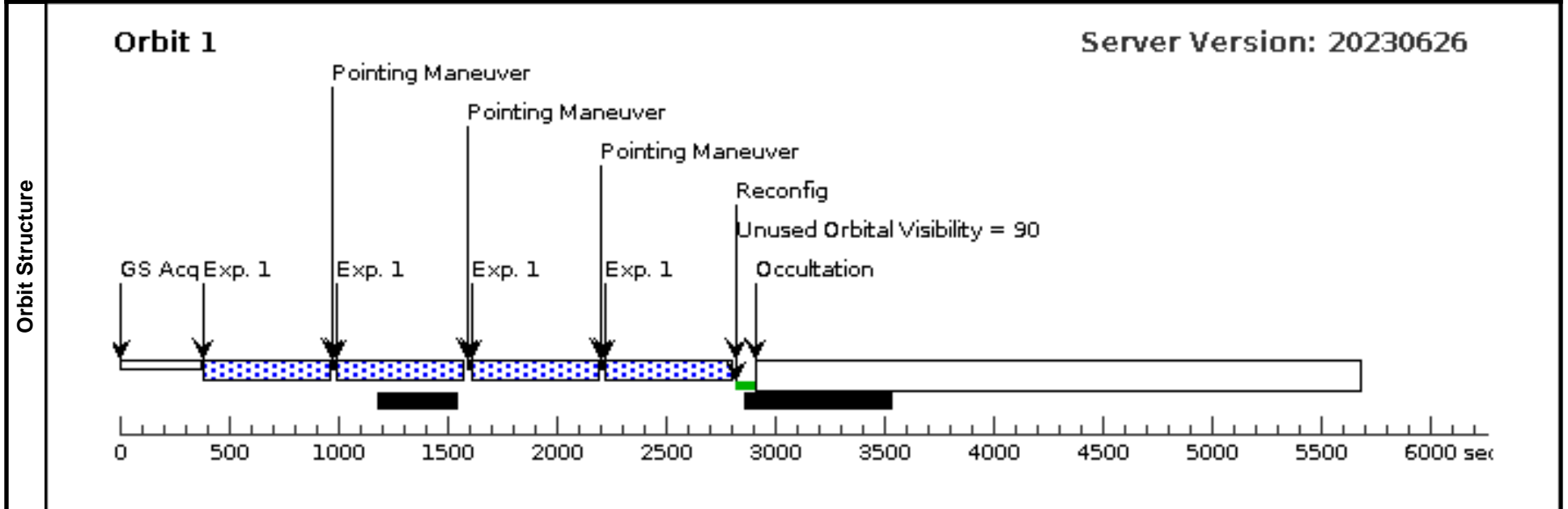
Wed May 08 22:00:33 GMT 2024

Visit	Proposal 17472, Visit M7, completed		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: SCHED 100%; AFTER M5 BY 45 D TO 75 D		

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)	GRB230818A	RA: 19 03 33.1200 (285.8880000d) Dec: +40 53 49.10 (40.89697d) Equinox: J2000		V=27+/-2	Reference Frame: ICRS
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA]					

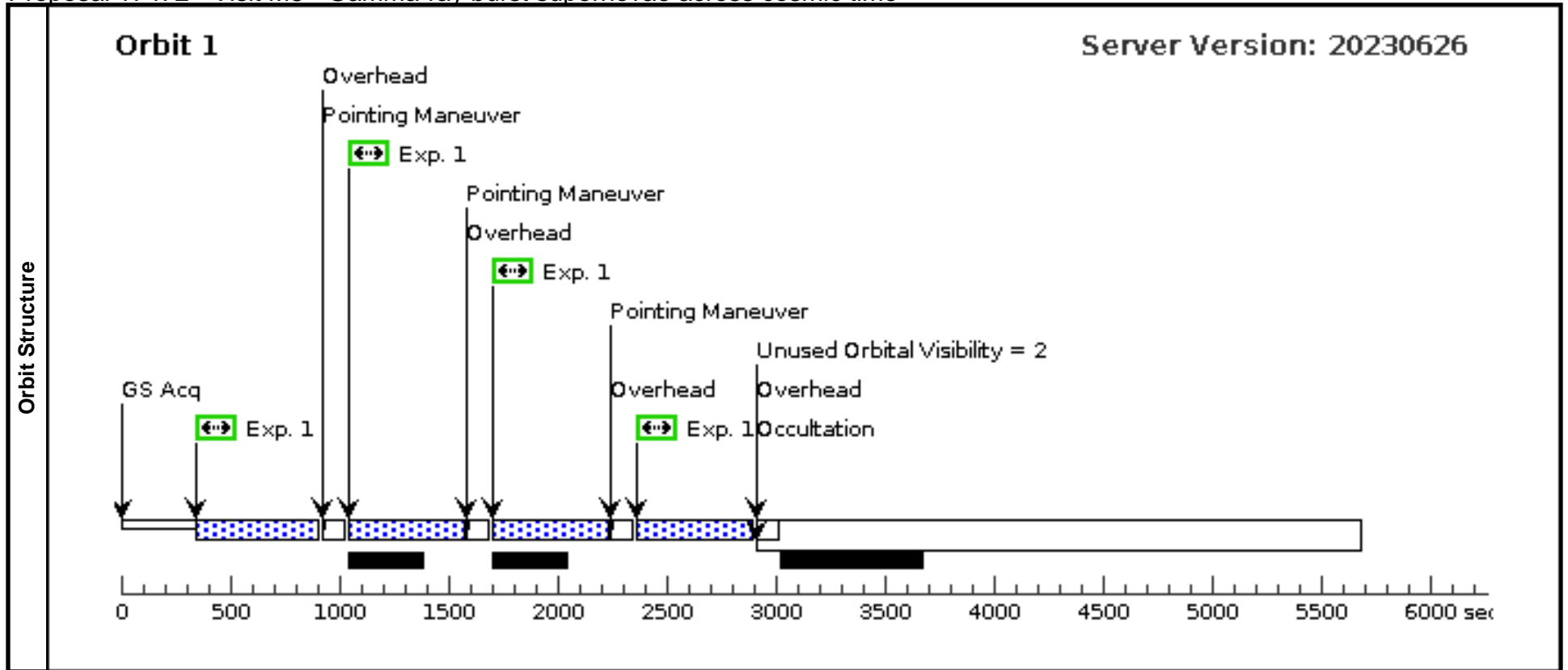
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(4) GRB230818A	WFC3/IR, MULTIACCUM, IR	F140W	SAMP-SEQ=SPARS 50;		Pattern 1, Exps 1-1 in Visit M7 (1)	552.937252 Secs (2211.749 Secs)	
						NSAMP=12			[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 17472 - Visit M8 - Gamma-ray burst supernovae across cosmic time

Wed May 08 22:00:33 GMT 2024

Visit	Proposal 17472, Visit M8, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 100%; GROUP M8,M7 WITHIN 1D										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
(2)		Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112		Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(4)	GRB230818A	RA: 19 03 33.1200 (285.8880000d) Dec: +40 53 49.10 (40.89697d) Equinox: J2000				V=27+/-2		Reference Frame: ICRS		
Comments: Category=EXT-STAR Description=[SUPERNOVA]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(4) GRB230818A		WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -65,-30	Pattern 2, Exps 1-1 i n Visit M8 (2)	370 Secs (2136 Secs) [=>534.0 Secs (Pattern 1)] [=>534.0 Secs (Pattern 2)] [=>534.0 Secs (Pattern 3)] [=>534.0 Secs (Pattern 4)]		[1]



Proposal 17472 - Visit M5 - Gamma-ray burst supernovae across cosmic time

Wed May 08 22:00:33 GMT 2024

Visit	Proposal 17472, Visit M5, completed		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: SCHED 100%; BEFORE 25-DEC-2023:00:00:00; TOO RESPONSE TIME 21.0D		

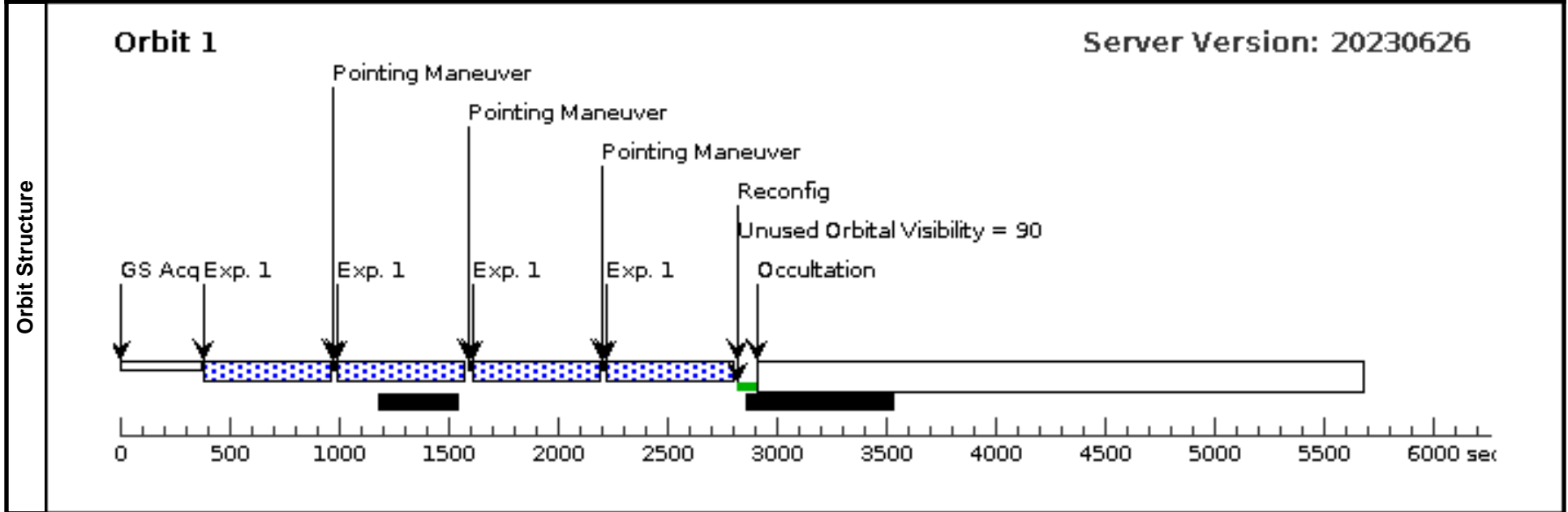
Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	GRB230818A	RA: 19 03 33.1200 (285.8880000d) Dec: +40 53 49.10 (40.89697d) Equinox: J2000		V=27+/-2	Reference Frame: ICRS

Comments:
Category=EXT-STAR
Description=[SUPERNOVA]

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(4) GRB230818A	WFC3/IR, MULTIACCUM, IR	F140W	SAMP-SEQ=SPARS 50; NSAMP=12			Pattern 1, Exps 1-1 in Visit M5 (1)	552.937252 Secs (2211.749 Secs)

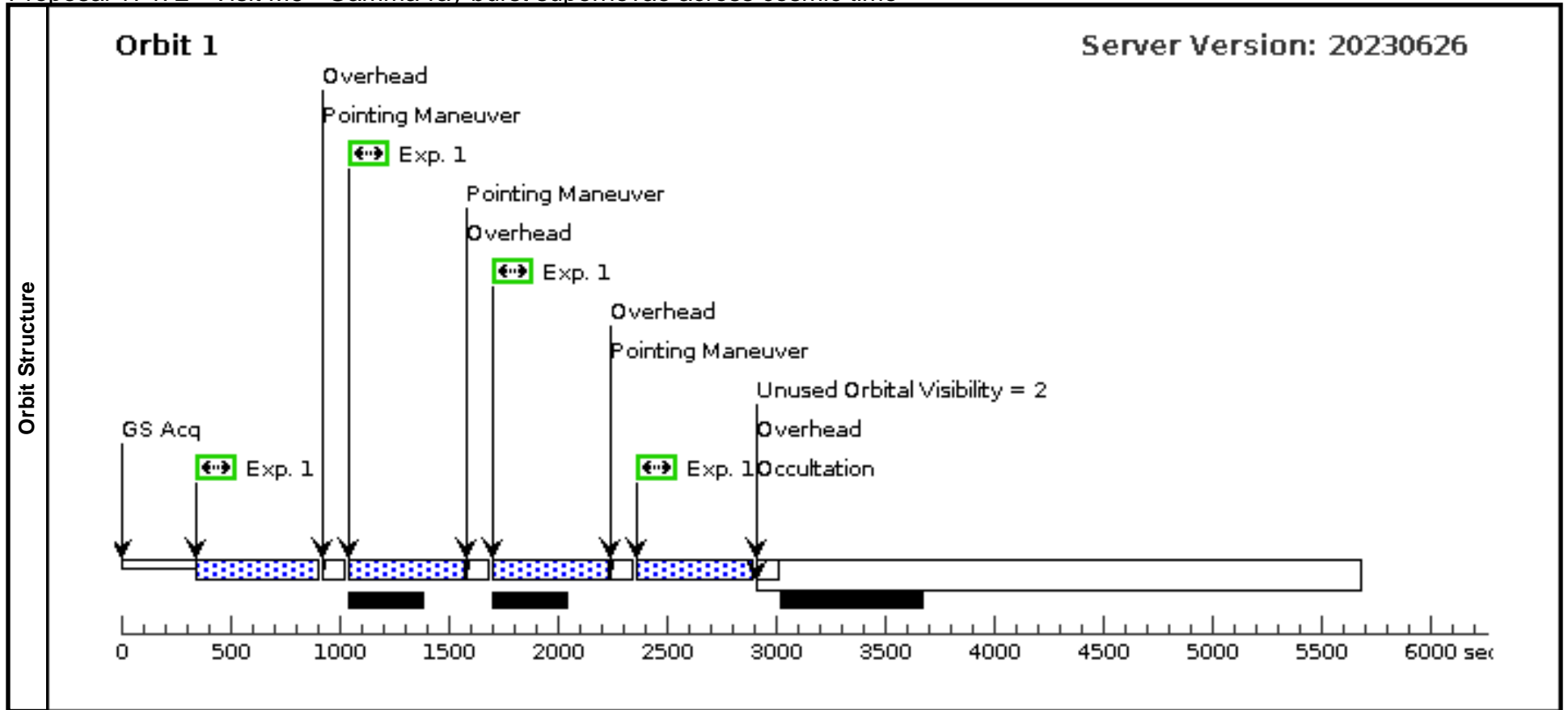
[==>(Pattern 1)]
 [==>(Pattern 2)]
 [==>(Pattern 3)]
 [==>(Pattern 4)]



Proposal 17472 - Visit M6 - Gamma-ray burst supernovae across cosmic time

Wed May 08 22:00:33 GMT 2024

Visit	Proposal 17472, Visit M6, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 100%; BEFORE 25-DEC-2023:00:00:00; GROUP M6.M5 WITHIN 2D										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
		(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112				Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false			(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(4)	GRB230818A	RA: 19 03 33.1200 (285.8880000d) Dec: +40 53 49.10 (40.89697d) Equinox: J2000				V=27+/-2		Reference Frame: ICRS		
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(4) GRB230818A	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -65,-30	Pattern 2, Exps 1-1 i n Visit M6 (2)	370 Secs (2136 Secs) [==>534.0 Secs (Pattern 1)] [==>534.0 Secs (Pattern 2)] [==>534.0 Secs (Pattern 3)] [==>534.0 Secs (Pattern 4)]		[1]



Proposal 17472 - Visit H1 - Gamma-ray burst supernovae across cosmic time

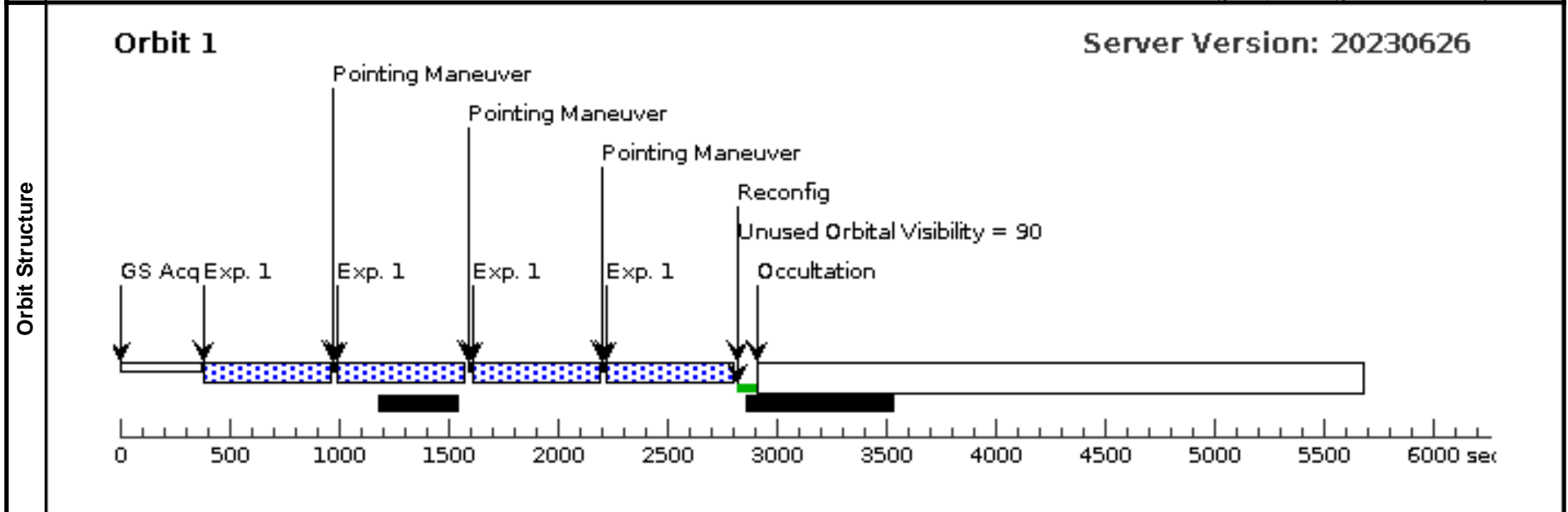
Wed May 08 22:00:33 GMT 2024

Visit	Proposal 17472, Visit H1, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ON HOLD ; TOO RESPONSE TIME 21.0D <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)	GRB3	GRB detection at $\sim 1.5 < z < 3.0$	

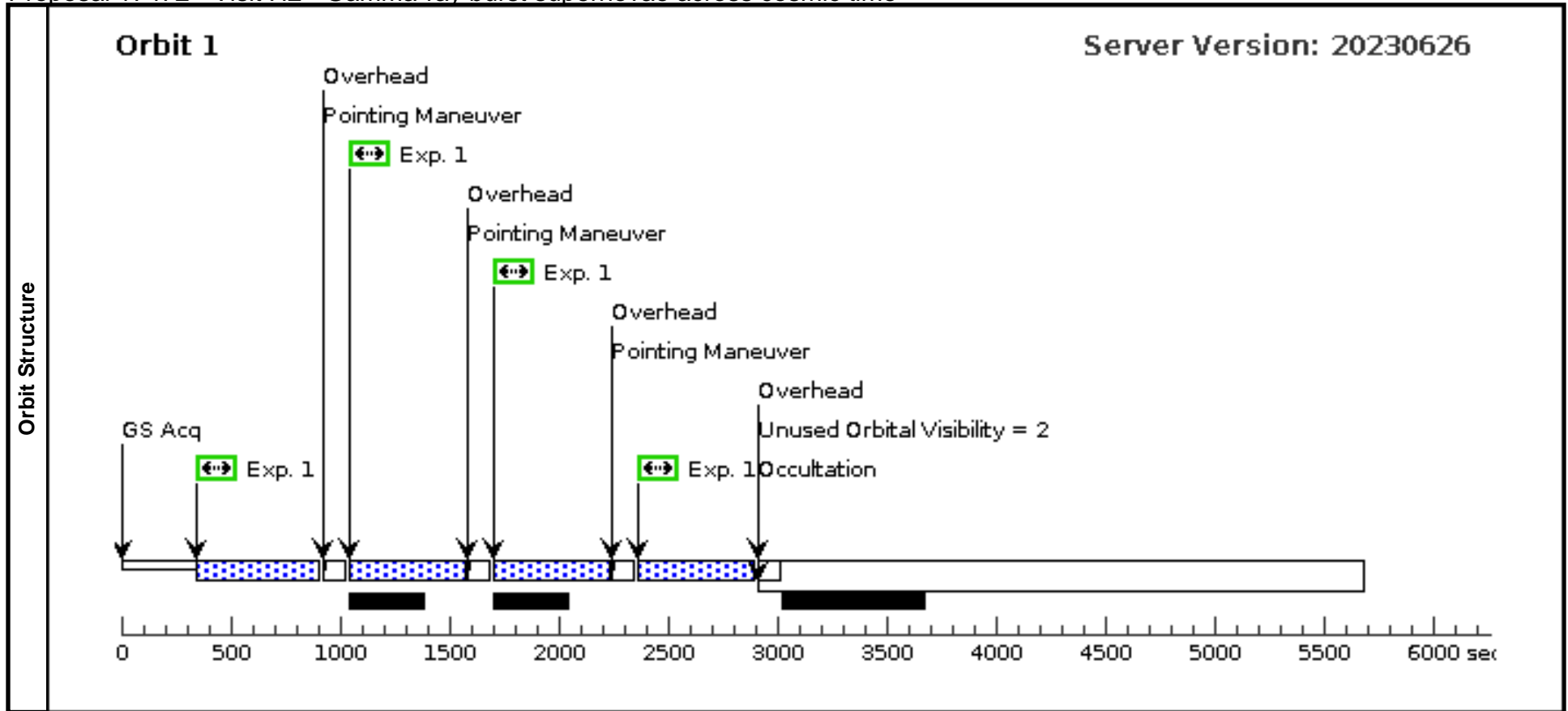
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) GRB3	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=12		Pattern 1, Exps 1-1 in Visit H1 (1)	552.937252 Secs (2211.749 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 17472 - Visit H2 - Gamma-ray burst supernovae across cosmic time

Wed May 08 22:00:33 GMT 2024

Visit	Proposal 17472, Visit H2, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 100%; GROUP H2,L1 WITHIN 2D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Awaiting GRB trigger</i>									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
(2)		Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112		Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(1)	
Generic Targets	#	Name	Criteria		Description					
	(3)	GRB3	GRB detection at $\sim 1.5 < z < 3.0$							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) GRB3	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -65,-30	Pattern 2, Exps 1-1 in Visit H2 (2)	370 Secs (2136 Secs)	[=>534.0 Secs (Pattern 1)] [=>534.0 Secs (Pattern 2)] [=>534.0 Secs (Pattern 3)] [=>534.0 Secs (Pattern 4)]	[1]



Proposal 17472 - Visit H3 - Gamma-ray burst supernovae across cosmic time

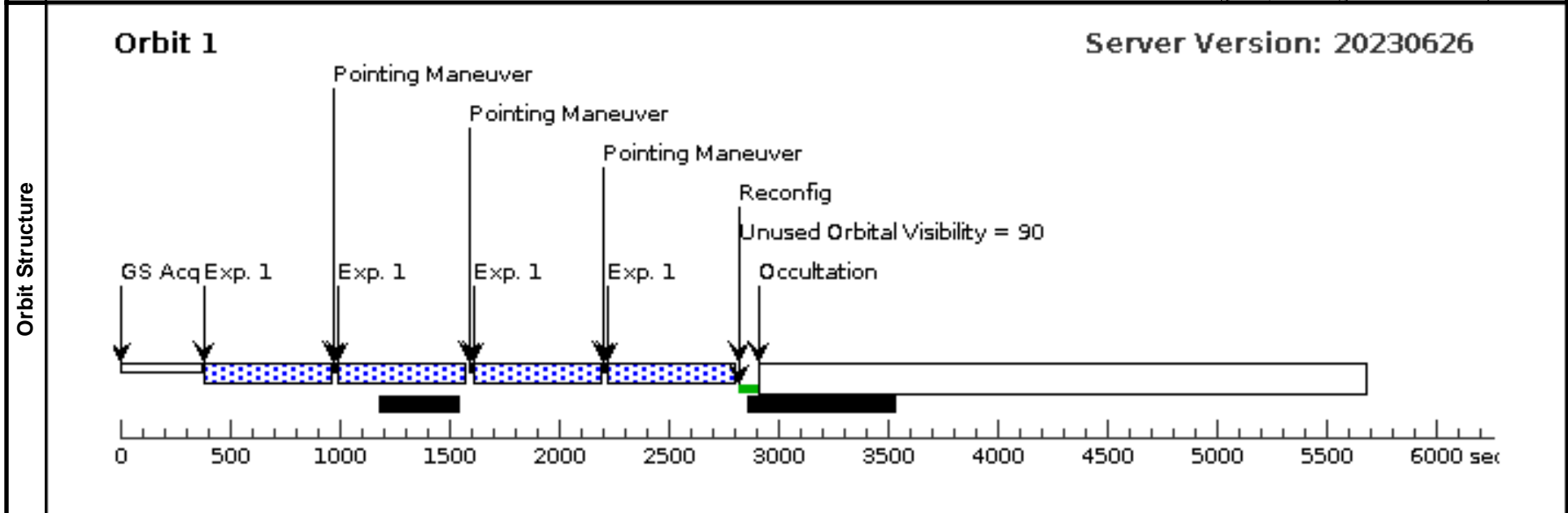
Wed May 08 22:00:33 GMT 2024

Visit	Proposal 17472, Visit H3, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ON HOLD ; TOO RESPONSE TIME 21.0D <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	

Generic Targets	#	Name	Criteria	Description
	(3)	GRB3	GRB detection at $\sim 1.5 < z < 3.0$	

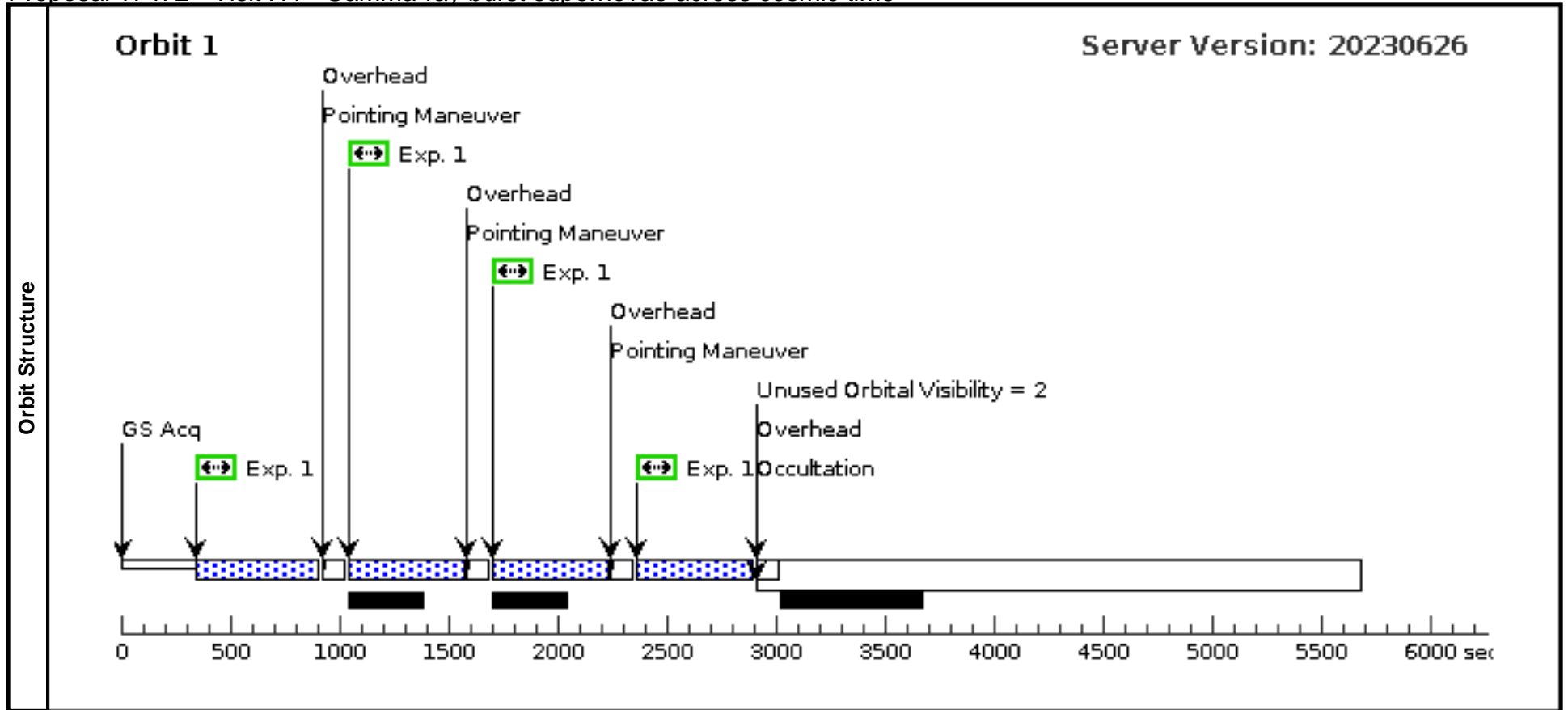
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) GRB3	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=12			Pattern 1, Exps 1-1 in Visit H3 (1)	552.937252 Secs (2211.749 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]



Proposal 17472 - Visit H4 - Gamma-ray burst supernovae across cosmic time

Wed May 08 22:00:33 GMT 2024

Visit	Proposal 17472, Visit H4, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 100%; GROUP H4.L1 WITHIN 2D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Awaiting GRB trigger</i>										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
(2)		Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112		Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(1)		
Generic Targets	#	Name	Criteria		Description						
	(3)	GRB3	GRB detection at $\sim 1.5 < z < 3.0$								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(3) GRB3		WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -65,-30	Pattern 2, Exps 1-1 in Visit H4 (2)	370 Secs (2136 Secs) [=>534.0 Secs (Pattern 1)] [=>534.0 Secs (Pattern 2)] [=>534.0 Secs (Pattern 3)] [=>534.0 Secs (Pattern 4)]		[1]



Proposal 17472 - Visit H5 - Gamma-ray burst supernovae across cosmic time

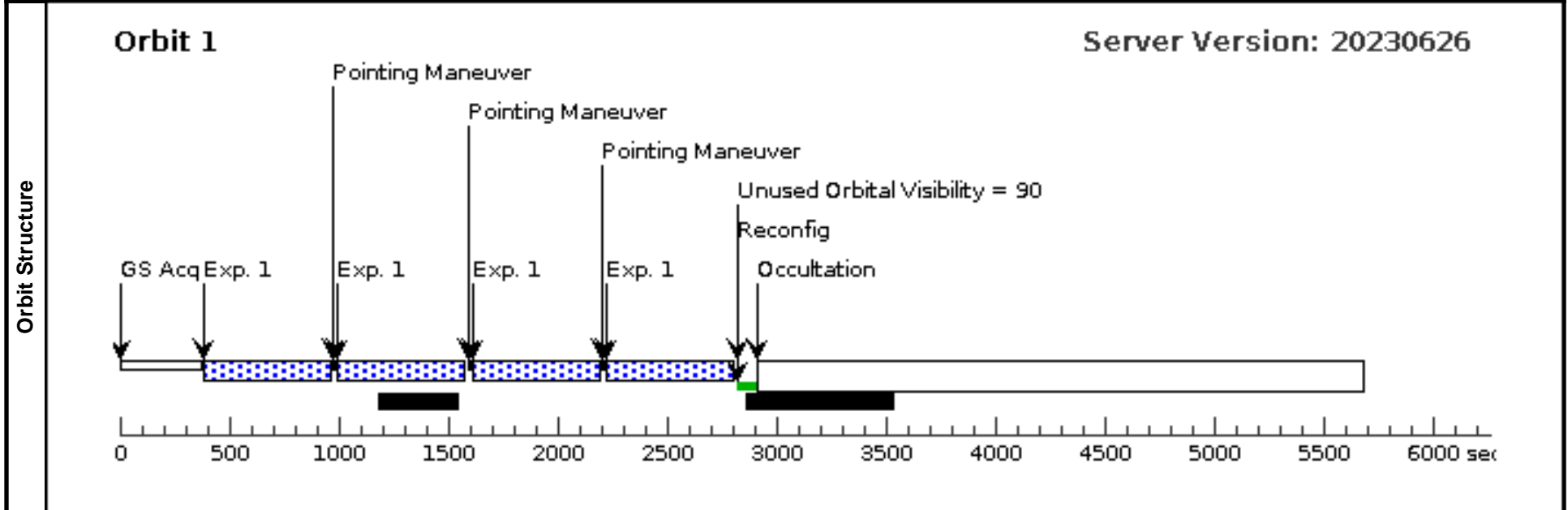
Wed May 08 22:00:33 GMT 2024

Visit	Proposal 17472, Visit H5, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ON HOLD ; TOO RESPONSE TIME 21.0D <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)	GRB3	GRB detection at $\sim 1.5 < z < 3.0$	

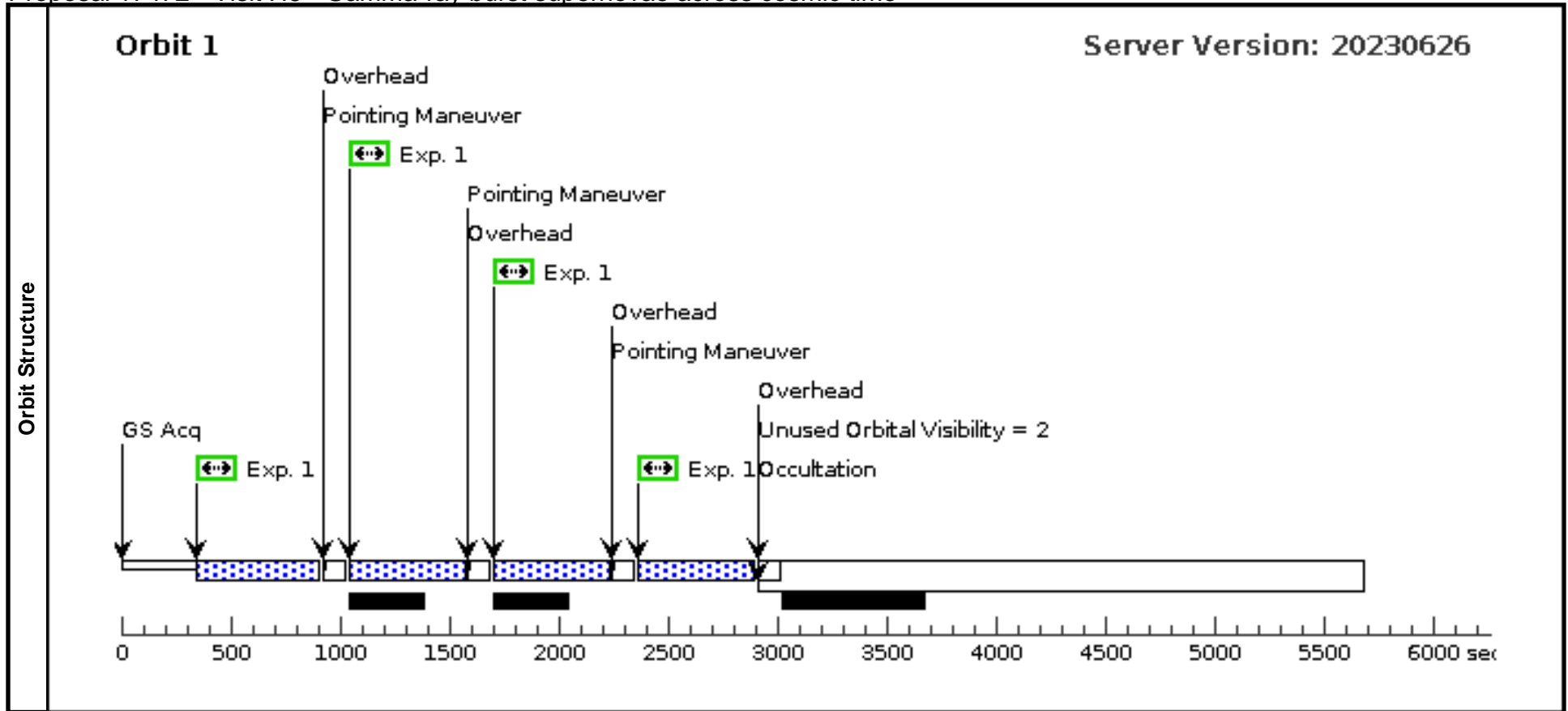
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) GRB3	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=12		Pattern 1, Exps 1-1 in Visit H5 (1)	552.937252 Secs (2211.749 Secs)	[1]
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	



Proposal 17472 - Visit H6 - Gamma-ray burst supernovae across cosmic time

Wed May 08 22:00:33 GMT 2024

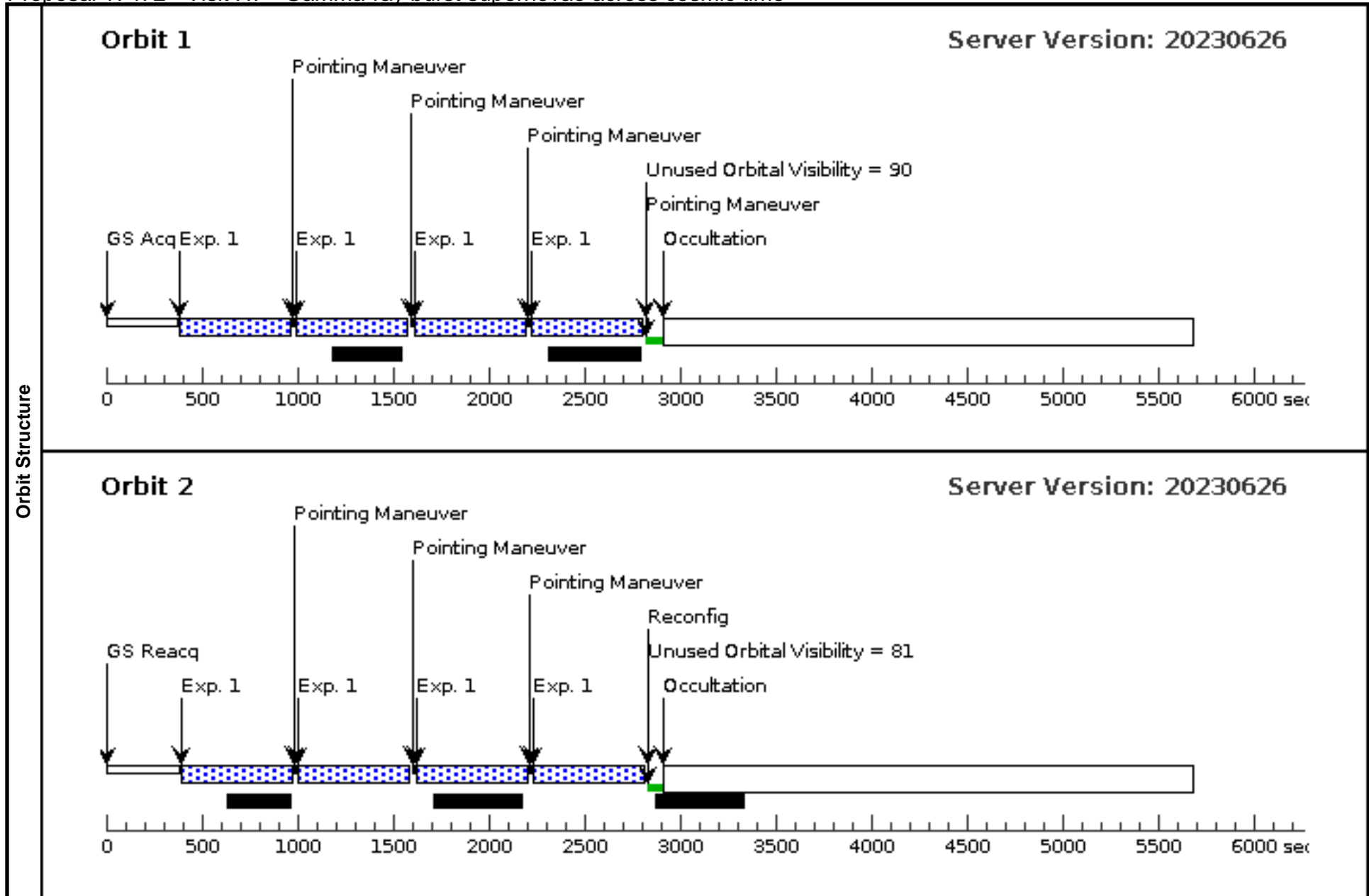
Visit	Proposal 17472, Visit H6, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 100%; GROUP H6,L1 WITHIN 2D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Awaiting GRB trigger</i>									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
(2)		Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112		Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(1)	
Generic Targets	#	Name	Criteria		Description					
	(3)	GRB3	GRB detection at $\sim 1.5 < z < 3.0$							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) GRB3	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -65,-30	Pattern 2, Exps 1-1 in Visit H6 (2)	370 Secs (2136 Secs)	[=>534.0 Secs (Pattern 1)] [=>534.0 Secs (Pattern 2)] [=>534.0 Secs (Pattern 3)] [=>534.0 Secs (Pattern 4)]	[1]



Proposal 17472 - Visit H7 - Gamma-ray burst supernovae across cosmic time

Wed May 08 22:00:33 GMT 2024

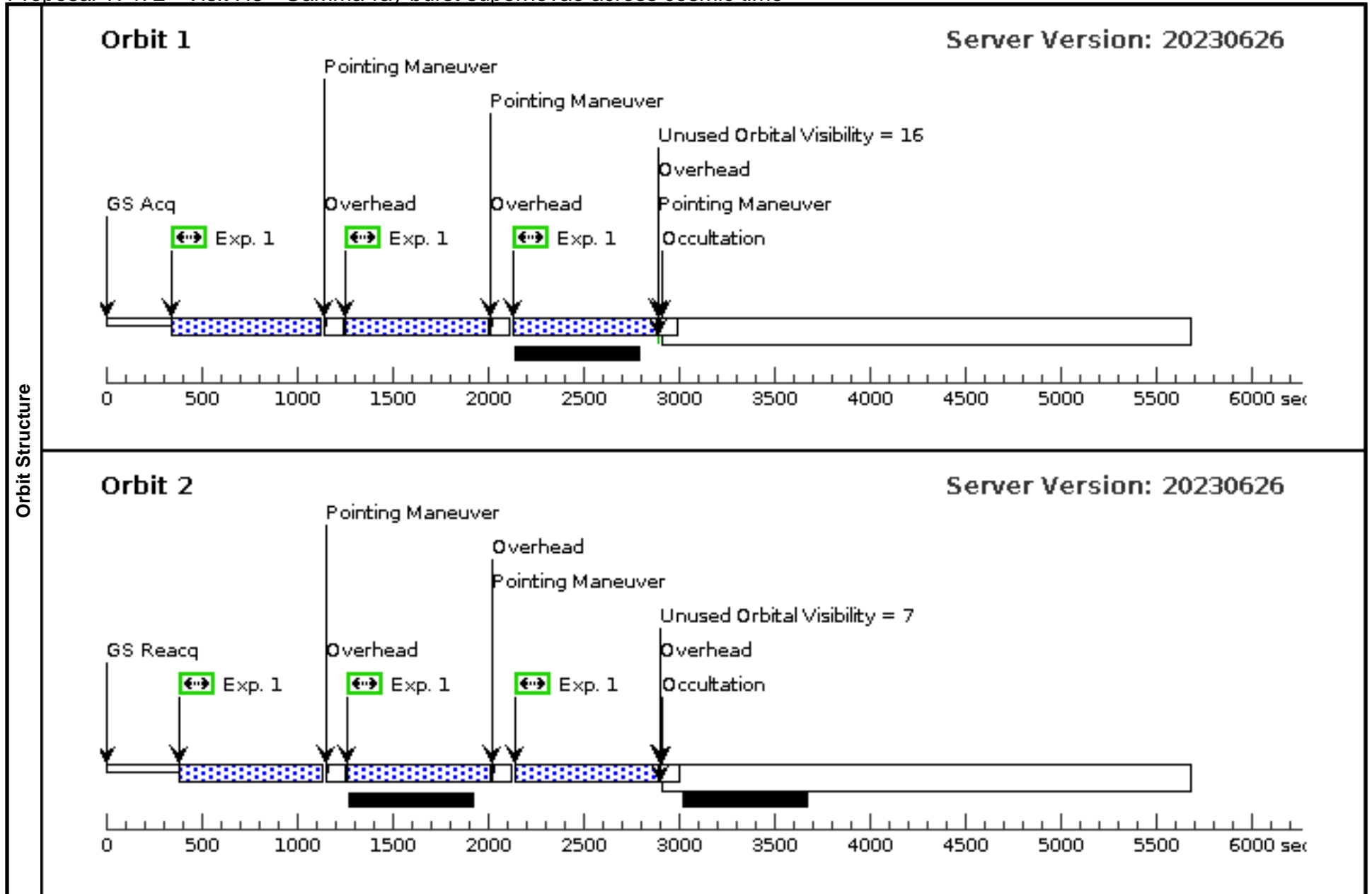
Visit	Proposal 17472, Visit H7, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Awaiting GRB trigger</i>									
	Patterns	#	Primary Pattern				Secondary Pattern			
(4)		Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false	(1)				
Generic Targets	#	Name	Criteria	Description						
	(3)	GRB3	GRB detection at $\sim 1.5 < z < 3.0$							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) GRB3	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 50; NSAMP=12		Pattern 4, Exps 1-1 i n Visit H7 (4)	552.937252 Secs (4423.498 Secs)	[1] [2]	



Proposal 17472 - Visit H8 - Gamma-ray burst supernovae across cosmic time

Wed May 08 22:00:33 GMT 2024

Visit	Proposal 17472, Visit H8, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 100%; GROUP H8,L1 WITHIN 2D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Awaiting GRB trigger</i>									
	Patterns	#	Primary Pattern				Secondary Pattern			
(3)		Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.099 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=3.9 Angle Between Sides= Center Pattern=false	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(1)				
Generic Targets	#	Name	Criteria			Description				
	(3)	GRB3	GRB detection at $\sim 1.5 < z < 3.0$							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) GRB3	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -65,-30	Pattern 3, Exps 1-1 i n Visit H8 (3)	750 Secs (4500 Secs)		
								[=>(Pattern 1,1)]	[1]	
								[=>(Pattern 1,2)]		
							[=>(Pattern 1,3)]			
							[=>(Pattern 2,1)]			
							[=>(Pattern 2,2)]	[2]		
							[=>(Pattern 2,3)]			



Proposal 17472 - Visit B1 - Gamma-ray burst supernovae across cosmic time

Wed May 08 22:00:33 GMT 2024

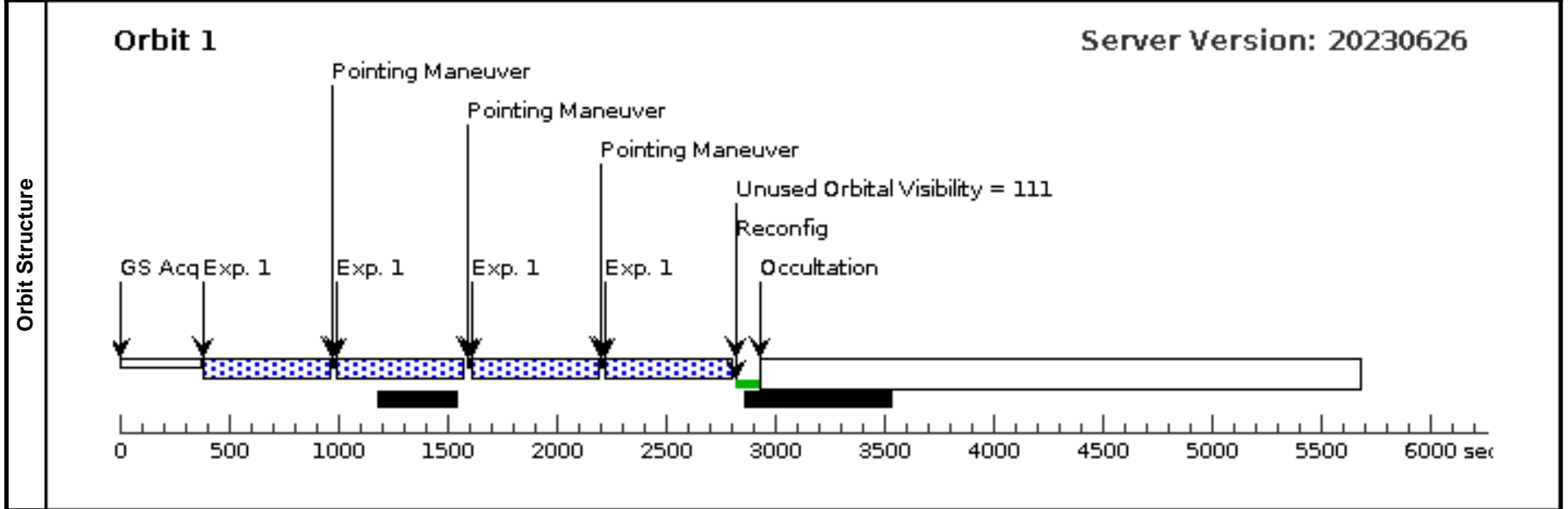
Visit	Proposal 17472, Visit B1, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: SCHED 100%; BETWEEN 20-MAY-2024:00:00:00 AND 31-MAY-2024:00:00:00		

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
	(5)	GRB240414A	RA: 12 19 8.1100 (184.7837917d) Dec: +56 44 28.84 (56.74134d) Equinox: J2000		V=25+/-1	Reference Frame: ICRS

Comments:
 Category=EXT-STAR
 Description=[GAMMA RAY BURSTER, SUPERNOVA]

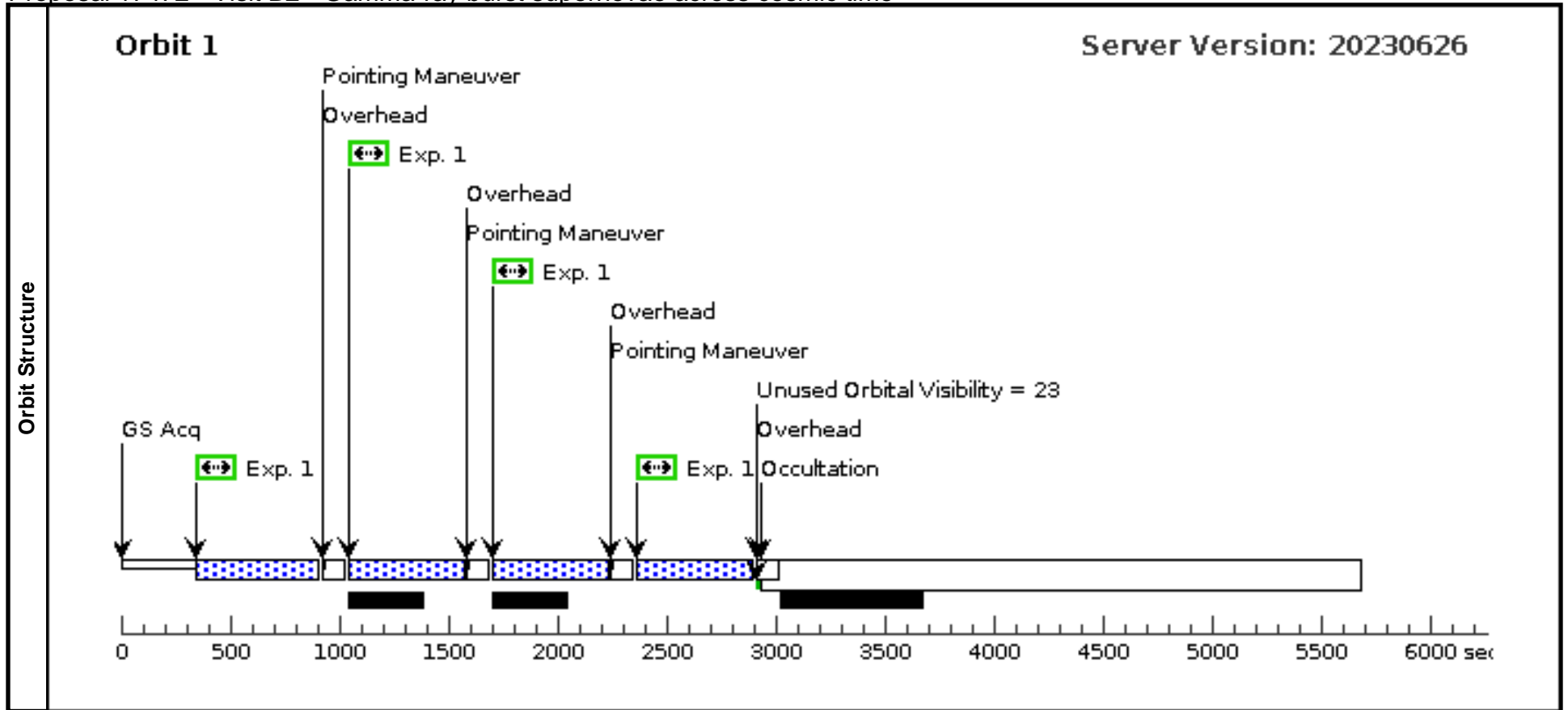
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(5) GRB240414A	WFC3/IR, MULTIACCUM, IR	F140W	SAMP-SEQ=SPARS 50; NSAMP=12			Pattern 1, Exps 1-1 in Visit B1 (1)	552.937252 Secs (2211.749 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 17472 - Visit B2 - Gamma-ray burst supernovae across cosmic time

Wed May 08 22:00:33 GMT 2024

Visit	Proposal 17472, Visit B2, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 100%; GROUP B2,B1 WITHIN 1D										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
		(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false						(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(5)	GRB240414A	RA: 12 19 8.1100 (184.7837917d) Dec: +56 44 28.84 (56.74134d) Equinox: J2000				V=25+/-1		Reference Frame: ICRS		
	<i>Comments:</i> Category=EXT-STAR Description=[GAMMA RAY BURSTER, SUPERNOVA]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(5) GRB240414A	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -65,-30	Pattern 2, Exps 1-1 in Visit B2 (2)	370 Secs (2136 Secs) [=>534.0 Secs (Pattern 1)] [=>534.0 Secs (Pattern 2)] [=>534.0 Secs (Pattern 3)] [=>534.0 Secs (Pattern 4)]	[1]	



Proposal 17472 - Visit B3 - Gamma-ray burst supernovae across cosmic time

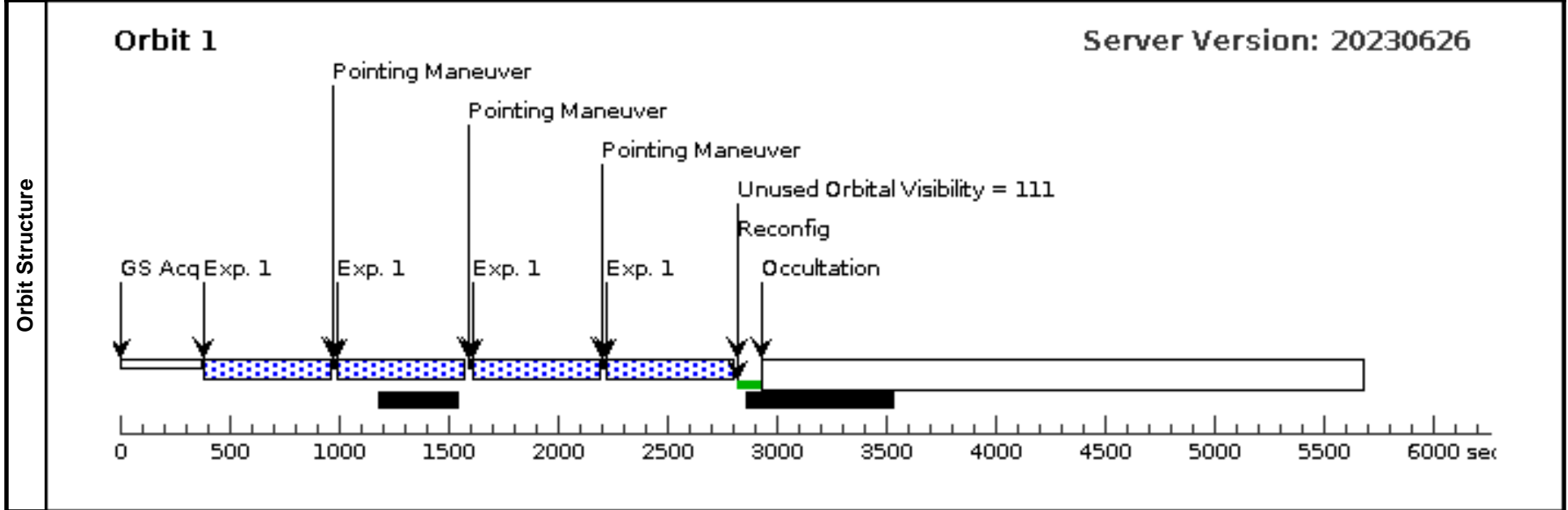
Wed May 08 22:00:33 GMT 2024

Visit	Proposal 17472, Visit B3, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; AFTER B1 BY 16 D TO 22 D		

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
	(5)	GRB240414A	RA: 12 19 8.1100 (184.7837917d) Dec: +56 44 28.84 (56.74134d) Equinox: J2000		V=25+/-1	Reference Frame: ICRS
	<i>Comments:</i> Category=EXT-STAR Description=[GAMMA RAY BURSTER, SUPERNOVA]					

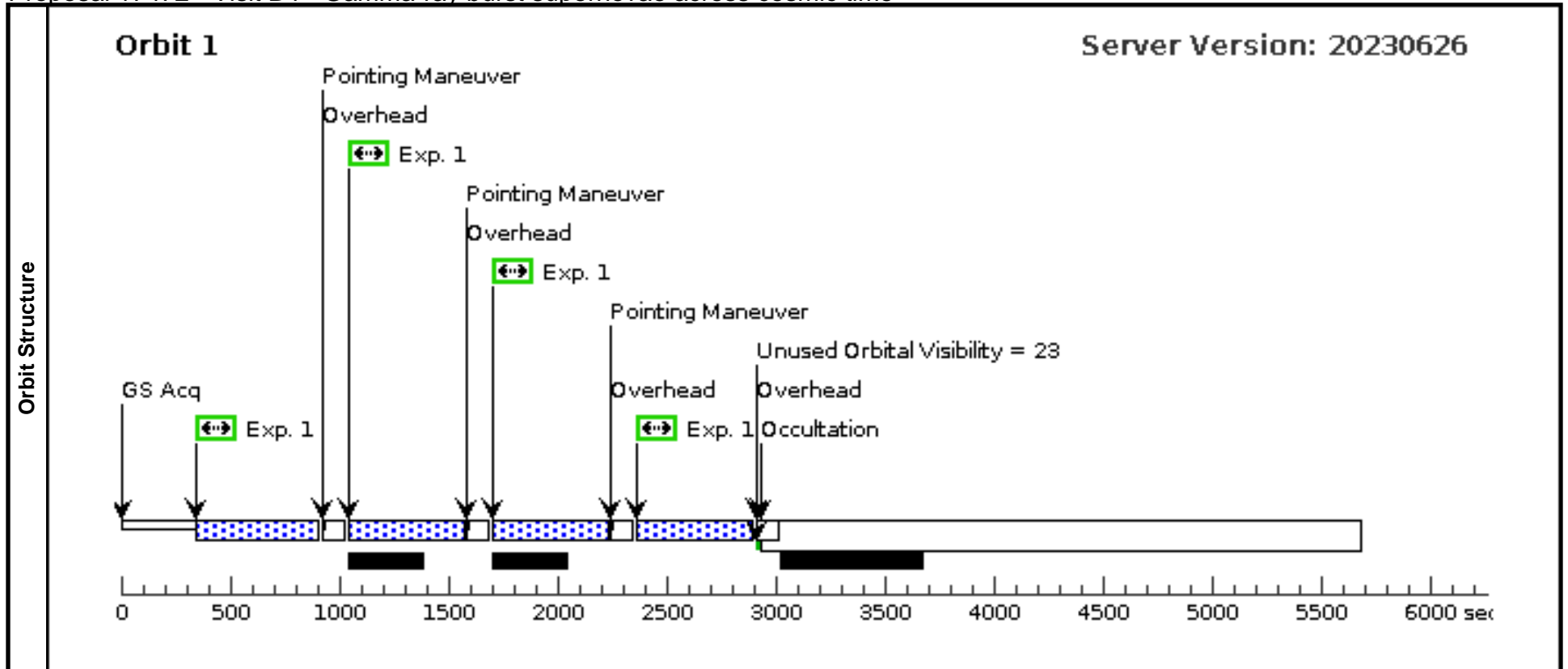
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(5) GRB240414A	WFC3/IR, MULTIACCUM, IR	F140W	SAMP-SEQ=SPARS 50;		Pattern 1, Exps 1-1 in Visit B3 (1)	552.937252 Secs (2211.749 Secs)	
						NSAMP=12			[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 17472 - Visit B4 - Gamma-ray burst supernovae across cosmic time

Wed May 08 22:00:33 GMT 2024

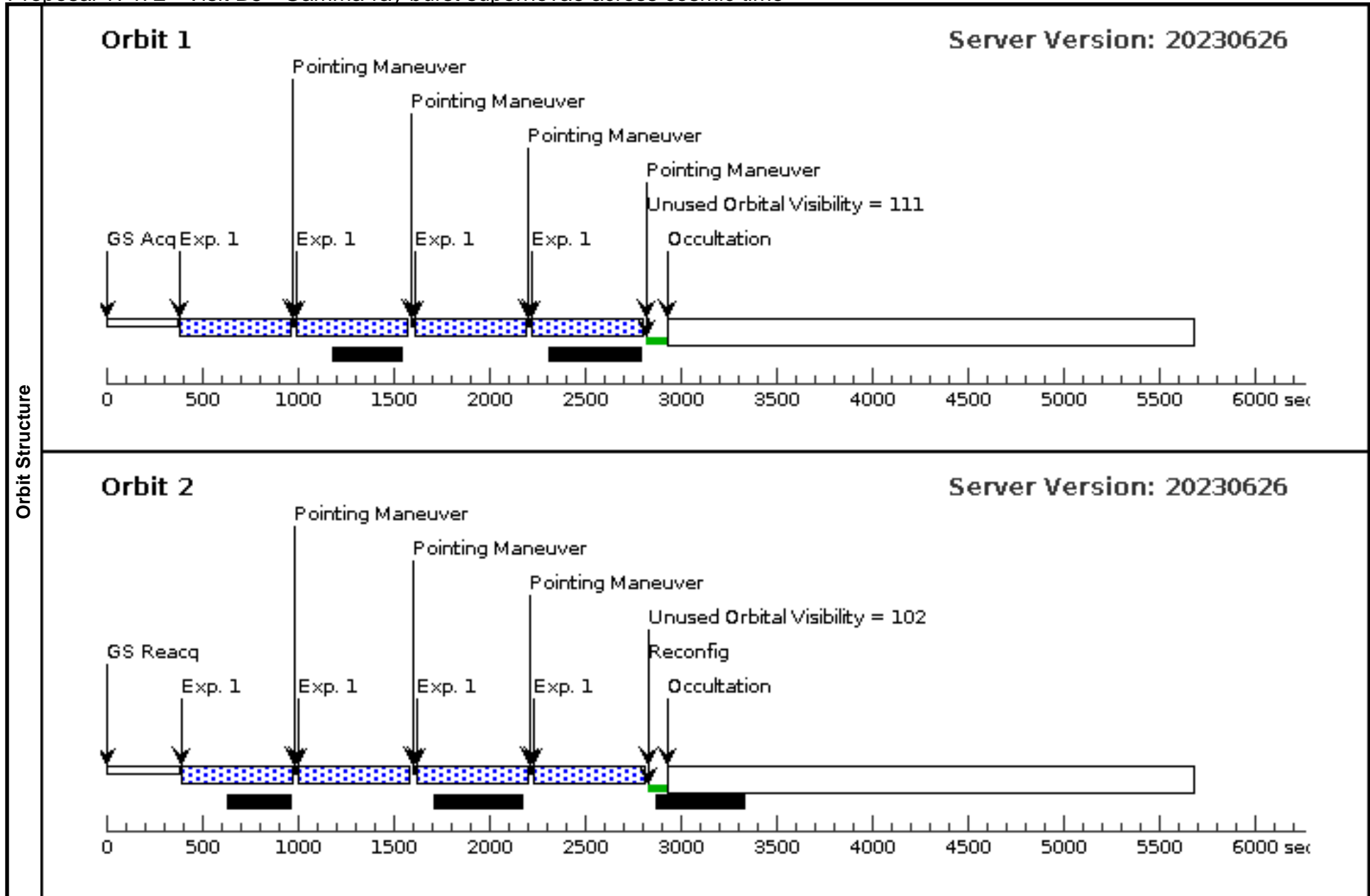
Visit	Proposal 17472, Visit B4, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 100%; GROUP B4,B3 WITHIN 1D										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
		(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112				Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false			(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(5)	GRB240414A	RA: 12 19 8.1100 (184.7837917d) Dec: +56 44 28.84 (56.74134d) Equinox: J2000				V=25+/-1		Reference Frame: ICRS		
	<i>Comments:</i> Category=EXT-STAR Description=[GAMMA RAY BURSTER, SUPERNOVA]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(5) GRB240414A	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -65,-30	Pattern 2, Exps 1-1 in Visit B4 (2)	370 Secs (2136 Secs) [=>534.0 Secs (Pattern 1)] [=>534.0 Secs (Pattern 2)] [=>534.0 Secs (Pattern 3)] [=>534.0 Secs (Pattern 4)]		[1]



Proposal 17472 - Visit B5 - Gamma-ray burst supernovae across cosmic time

Wed May 08 22:00:33 GMT 2024

Visit	Proposal 17472, Visit B5, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; AFTER B3 BY 18 D TO 25 D; TOO RESPONSE TIME 21.0D									
	Patterns	#	Primary Pattern				Secondary Pattern			
		(4)	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112				Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false	(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(5)	GRB240414A	RA: 12 19 8.1100 (184.7837917d) Dec: +56 44 28.84 (56.74134d) Equinox: J2000			V=25+/-1	Reference Frame: ICRS			
	<i>Comments:</i> Category=EXT-STAR Description=[GAMMA RAY BURSTER, SUPERNOVA]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(5) GRB240414A	(5) GRB240414A	WFC3/IR, MULTIACCUM, IR	F140W	SAMP-SEQ=SPARS 50; NSAMP=12			Pattern 4, Exps 1-1 in Visit B5 (4)	552.937252 Secs (4423.498 Secs)
									[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 1,3)] [==>(Pattern 1,4)]	[1]
									[==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 2,3)] [==>(Pattern 2,4)]	[2]



Proposal 17472 - Visit B6 - Gamma-ray burst supernovae across cosmic time

Wed May 08 22:00:33 GMT 2024

Visit	Proposal 17472, Visit B6, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 100%; GROUP B6,B5 WITHIN 2D; TOO RESPONSE TIME 21.0D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(3)	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.099 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=3.9 Angle Between Sides= Center Pattern=false	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(1)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	GRB240414A	RA: 12 19 8.1100 (184.7837917d) Dec: +56 44 28.84 (56.74134d) Equinox: J2000		V=25+/-1	Reference Frame: ICRS				
	<i>Comments:</i> Category=EXT-STAR Description=[GAMMA RAY BURSTER, SUPERNOVA]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(5) GRB240414A	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -65,-30	Pattern 3, Exps 1-1 i n Visit B6 (3)	750 Secs (4500 Secs)	
								[==>(Pattern 1,1)]		[1]
								[==>(Pattern 1,2)]		
								[==>(Pattern 1,3)]		
								[==>(Pattern 2,1)]		
								[==>(Pattern 2,2)]		[2]
								[==>(Pattern 2,3)]		

