



15349 - From the longest GRBs to the brightest supernovae

Cycle: 25, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
H1	(4) GRB171205A	WFC3/UVIS	2	23-Sep-2019 09:01:17.0	yes
M2	(4) GRB171205A	WFC3/UVIS	2	23-Sep-2019 09:01:18.0	yes
M3	(4) GRB171205A	WFC3/UVIS	2	23-Sep-2019 09:01:20.0	yes
H2	(1) ULGRBTDE1	WFC3/IR	2	23-Sep-2019 09:01:21.0	yes
H3	(1) ULGRBTDE1	WFC3/IR WFC3/UVIS	1	23-Sep-2019 09:01:22.0	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>
H4	(1) ULGRBTDE1	WFC3/IR WFC3/UVIS	1	23-Sep-2019 09:01:23.0	yes
H5	(1) ULGRBTDE1	WFC3/UVIS	2	23-Sep-2019 09:01:24.0	yes
H6	(1) ULGRBTDE1	WFC3/IR	2	23-Sep-2019 09:01:25.0	yes
L1	(1) ULGRBTDE1	WFC3/UVIS	1	23-Sep-2019 09:01:26.0	yes
L2	(2) ULGRBTDE2	ACS/WFC	1	23-Sep-2019 09:01:26.0	yes
L3	(1) ULGRBTDE1	WFC3/UVIS	1	23-Sep-2019 09:01:27.0	yes
L4	(1) ULGRBTDE1	WFC3/UVIS	1	23-Sep-2019 09:01:28.0	yes
L5	(1) ULGRBTDE1	WFC3/UVIS	1	23-Sep-2019 09:01:29.0	yes
L6	(2) ULGRBTDE2	ACS/WFC	1	23-Sep-2019 09:01:30.0	yes
B1	(3) GRB170714A	WFC3/IR	1	23-Sep-2019 09:01:31.0	yes
C1	(3) GRB170714A	WFC3/IR	1	23-Sep-2019 09:01:32.0	yes
C2	(3) GRB170714A	WFC3/IR	1	23-Sep-2019 09:01:33.0	yes
C3	(3) GRB170714A	WFC3/IR	1	23-Sep-2019 09:01:35.0	yes
B2	(3) GRB170714A	WFC3/IR	1	23-Sep-2019 09:01:36.0	yes
B3	(3) GRB170714A	WFC3/IR	1	23-Sep-2019 09:01:37.0	yes

26 Total Orbits Used

ABSTRACT

Observations in the past few years have uncovered new populations of high energy transients with durations 1-3 orders of magnitude longer than classical long-duration gamma-ray bursts (GRBs). Recently, a very luminous supernova has been uncovered in one of these events, and it seems likely that its luminosity is related to the late time activity of the central engine of the GRB. If this is the case then it provides a crucial link between central engine input and the peak luminosity of a supernova, with direct relevance to studies of the superluminous SNe that have been uncovered by wide field surveys in the past decade. Here we propose a series of HST observations of an ultralong event uncovered in Cycle 25 or 26. Our observations will map the lightcurve from peak out to late times, distinguish if it can be powered by radioactive Nickel or requires a central engine contribution, and directly test if central engine models can simultaneously produce both the GRB and SNe light. This may provide evidence of a link

between two of the most powerful types of explosions known, in which the timescale over which the energy is emitted from a compact object created during core collapse is a governing factor that determines the type of explosion we observe.

OBSERVING DESCRIPTION

The aim of this proposal is to obtain UV to IR imaging and spectroscopy to search for the origin of the longest high energy transients. Our principle methods of doing this will be to search for a hot UV component that would be indicative of a tidal flare, while simultaneously searching for a cooler, optical component that could be a supernova. By obtaining UV to IR observations we can also estimate the contribution of any GRB afterglow, and place strong constraints on the nature of the sources.

We will observe with two strategies depending on the redshift of the source. The precise choice between which strategy to trigger will of course also depend on the nature of the source itself (optical/UV brightness, intrinsic extinction etc). In summary.

Low redshift scenario (typically $z < 0.6$)

4-visits.

Visit L1/L2: 1 orbit WFC3 F275W/F336W/F390W and G280L, 1 orbit ACS F606W or F814W/G800L

Visit L3: 1 orbit WFC3 F275W/F336W/F390W and F606W/F814W

Visit L4: 1 orbit WFC3 F275W/F336W/F390W and F606W/F814W

Visit L5/L6: 1 orbit WFC3 F275W/F336W/F390W and G280L, 1 orbit ACS F606W or F814W/G800L

Visits L1/L2 & L5/L6 are identical to enable the contribution of the host galaxy to be subtracted, and utilize a short exposure in the continuum filter, and a 4-point dither in the grism observations. Visit L1/L2 should execute ~3-4 weeks after trigger. Visit L5/L6 should be ~1 year later. Visits L3&L4 are also identical and include a 3-point dither in each filter. They should be conducted ~1 & 2 months after the first set of visits. In practice the details of the source (redshift, extinction, brightness) may ultimately require slightly different strategies or filter choices, and so we may request these at the time of trigger.

High redshift scenario (typically $z > 0.6$)

4 visits

Visit H1/L2: 2 orbit WFC3 F275W/F336W/F390W and G280L, 2 orbit WFC3/IR G102L

Proposal 15349 (STScI Edit Number: 0, Created: Monday, September 23, 2019 at 8:01:38 AM Eastern Standard Time) - Overview

Visit H3: 1 orbit WFC3 F275W/F336W/F390W and F606W/F814W

Visit H4: 1 orbit WFC3 F275W/F336W/F390W and F606W/F814W

Visit H5/L6: 1 orbit WFC3 F336W/G280L, 2 orbit WFC3/IR G102L

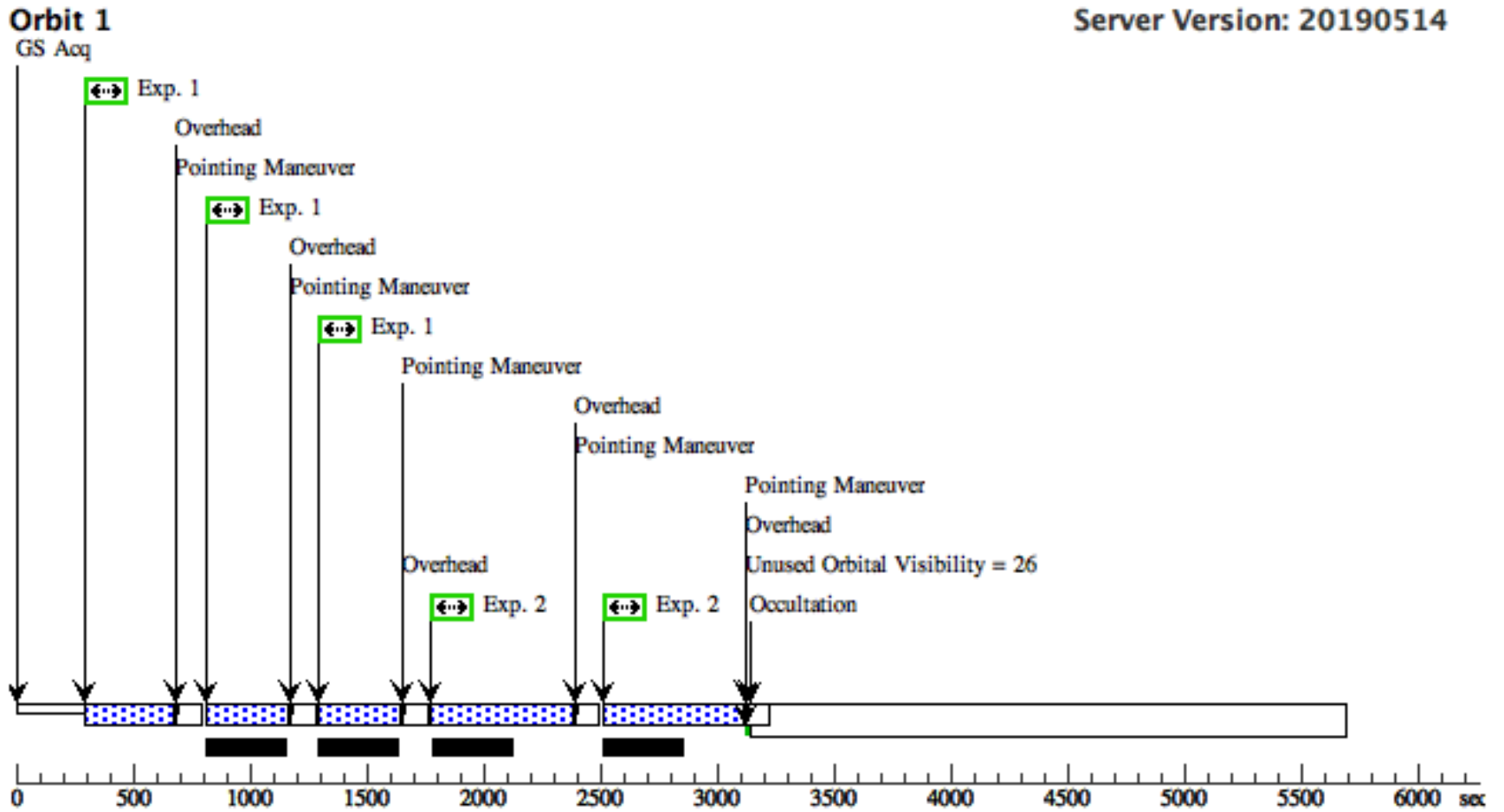
The general layout of these observations is similar to the low-z scenario. However the exposure times in the spectroscopic observations have been increased from 1-2 orbits. The UVIS observations will utilize a 6 point dither. The IR observations a 4-point dither. As above, we ask for some flexibility on the details of the observations depending on the properties of the triggered sources. As this is a non-disruptive ToO programme, and there is some time between trigger and observation, we have not explicitly specified orbits with every possible observation choice since that would require a very large number of observations to be checked. In practice we expect to trigger one of the above orbits, but may change the filters, leaving dither patterns, exposure times etc as they are specified above.

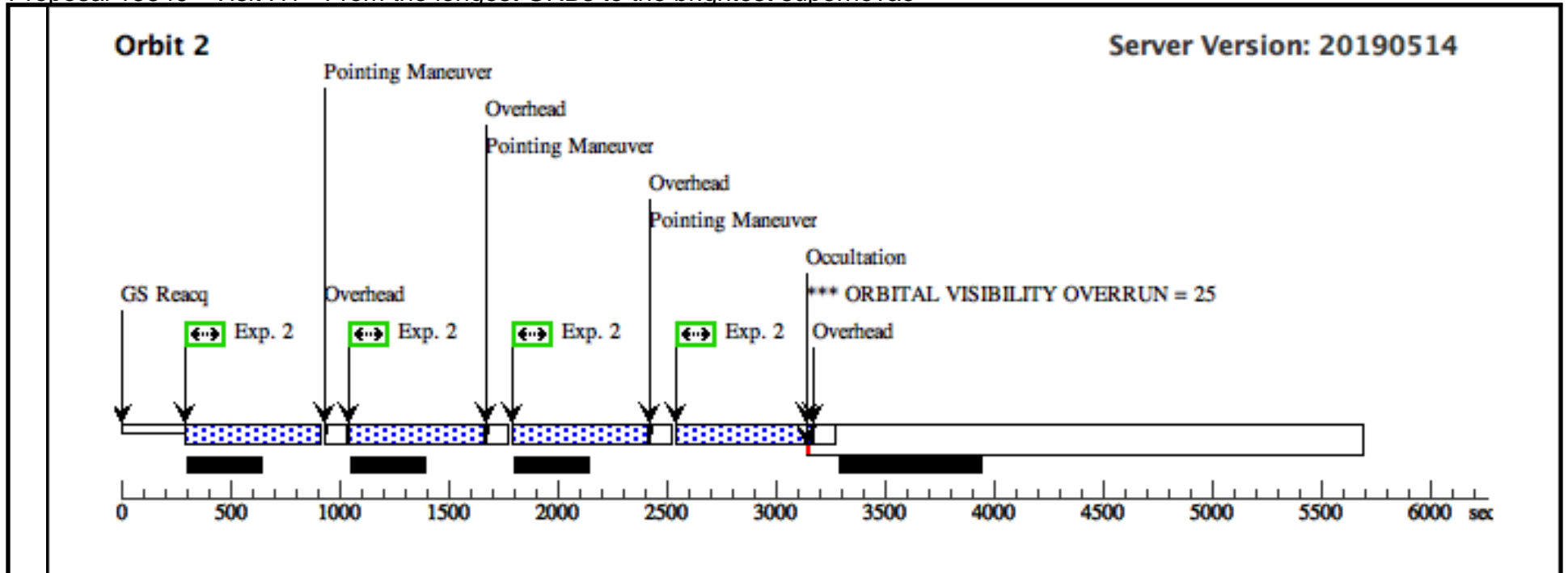
Proposal 15349 - Visit H1 - From the longest GRBs to the brightest supernovae

Mon Sep 23 13:01:38 GMT 2019

Visit	Proposal 15349, Visit H1, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 315D TO 325 D; BEFORE 02-JAN-2018:00:00:00									
	(Visit H1) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(2)	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)						
(7)	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-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(2)							
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	GRB171205A	RA: 11 09 39.4900 (167.4145417d) Dec: -12 35 18.60 (-12.58850d) Equinox: J2000		V=20+/-1	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) GRB171205A		WFC3/UVIS, ACCUM, UVIS	F300X	FLASH=10	POS TARG 0,-50	Pattern 2, Exps 1-1 in Visit H1 (2)	350 Secs (1044 Secs) [==>348.0 Secs (Pattern 1)] [==>348.0 Secs (Pattern 2)] [==>348.0 Secs (Pattern 3)]	[1]
2	(4) GRB171205A		WFC3/UVIS, ACCUM, UVIS	G280	CR-SPLIT=NO	POS TARG 0,-50	Pattern 7, Exps 2-2 in Visit H1 (7)	600 Secs (3680 Secs) [==>600.0 Secs (Pattern 1,1)] [==>600.0 Secs (Pattern 1,2)] [==>620.0 Secs (Pattern 1,3)] [==>620.0 Secs (Pattern 2,1)] [==>620.0 Secs (Pattern 2,2)] [==>620.0 Secs (Pattern 2,3)]	[2]	

Orbit Structure

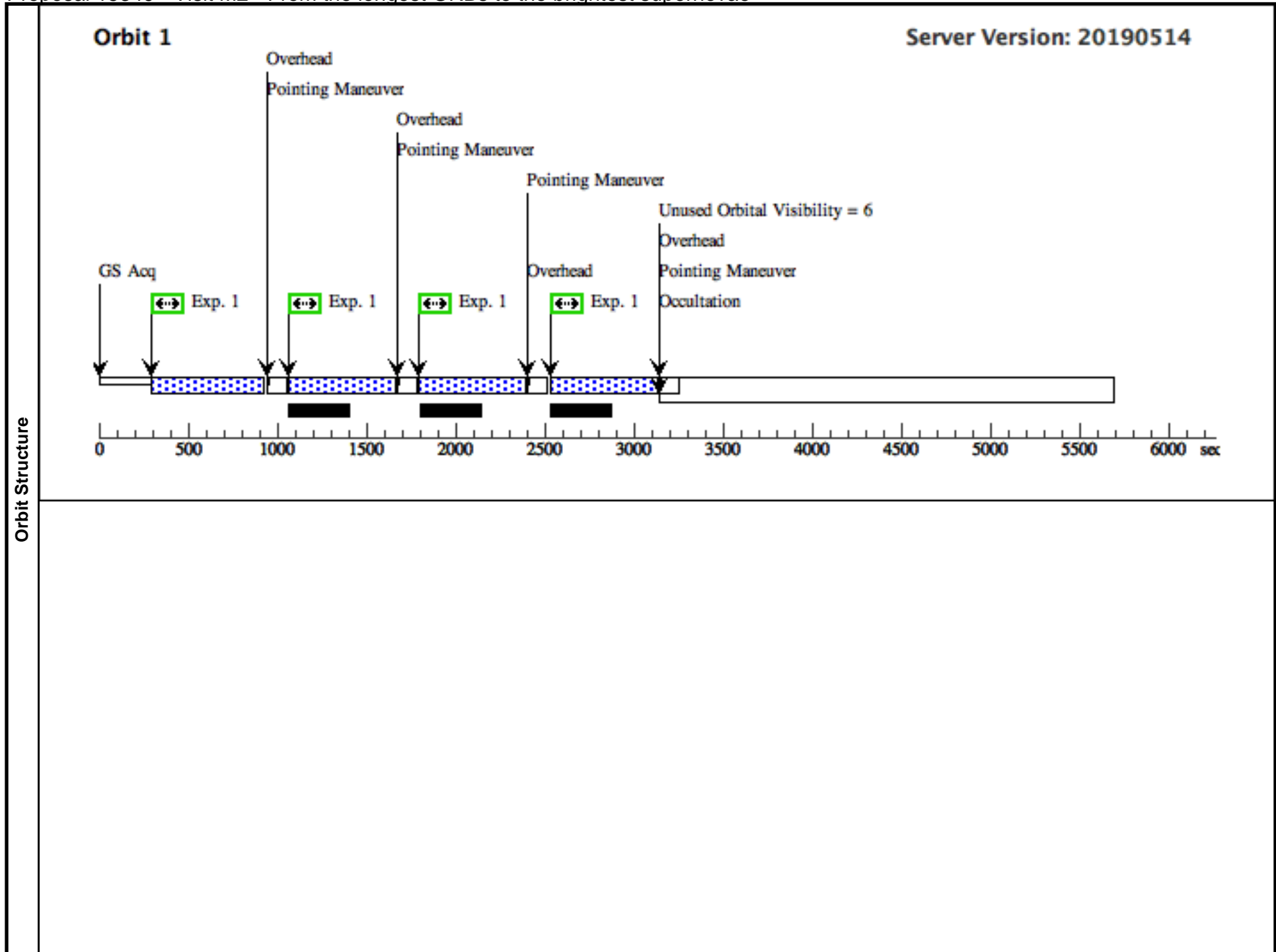




Proposal 15349 - Visit M2 - From the longest GRBs to the brightest supernovae

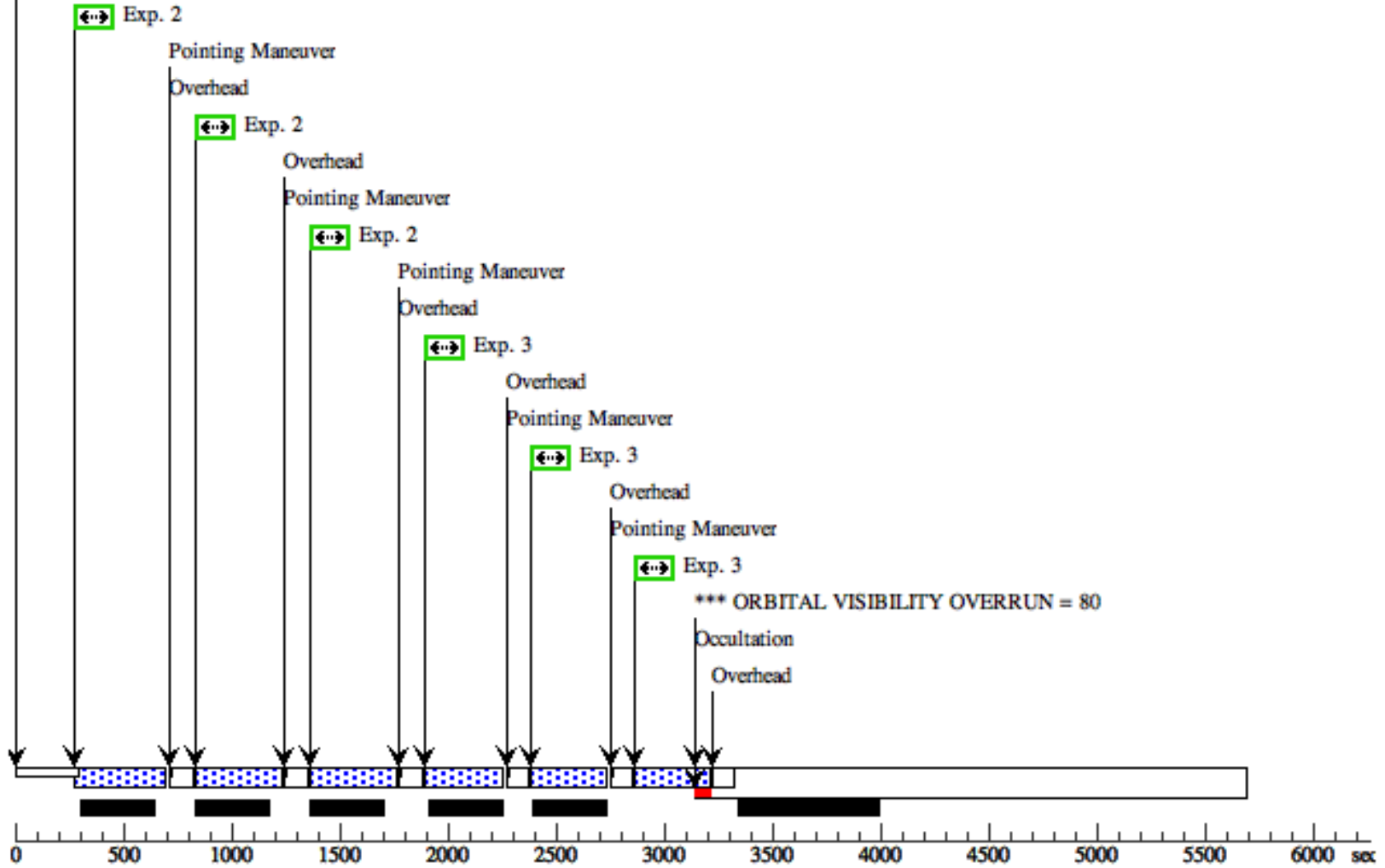
Mon Sep 23 13:01:38 GMT 2019

Visit	Proposal 15349, Visit M2 Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 25-JUL-2018:00:00:00									
	(Visit M2) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(2)	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		(2), (3)						
Patterns	(3)	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)	GRB171205A	RA: 11 09 39.4900 (167.4145417d) Dec: -12 35 18.60 (-12.58850d) Equinox: J2000		V=20+/-1	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) GRB171205A	(4) GRB171205A	WFC3/UVIS, ACCUM, UVIS2	F300X	FLASH=10	POS TARG 0,0	Pattern 3, Exps 1-1 in Visit M2 (3)	600 Secs (2400 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
Exposures	2	(4) GRB171205A	(4) GRB171205A	WFC3/UVIS, ACCUM, UVIS2	F475W	CR-SPLIT=NO; FLASH=4	POS TARG 0,0	Pattern 2, Exps 2-2 in Visit M2 (2)	400 Secs (1200 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[2]
	3	(4) GRB171205A	(4) GRB171205A	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG 0,0	Pattern 2, Exps 3-3 in Visit M2 (2)	350 Secs (1050 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[2]



Orbit 2

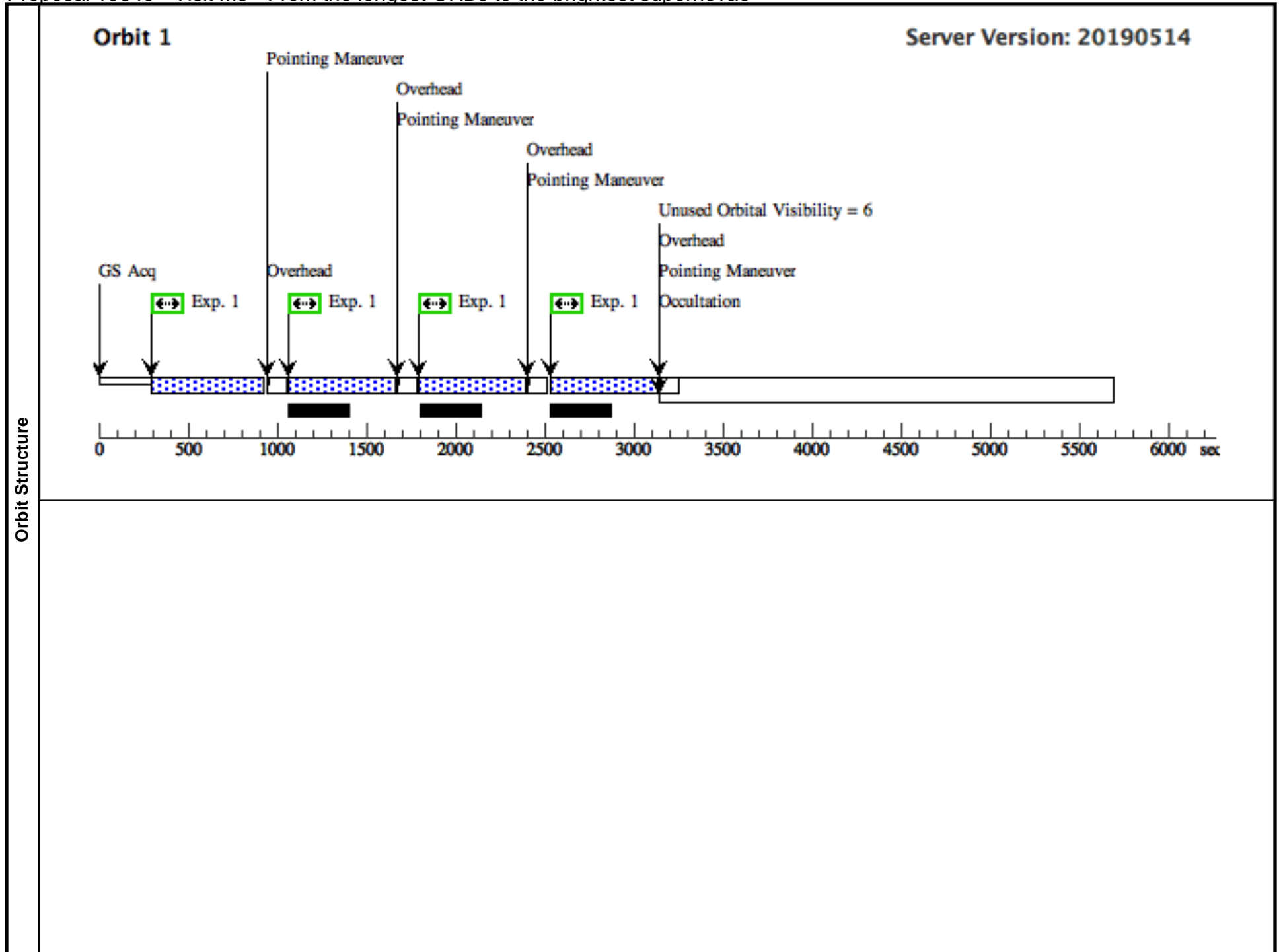
GS Reacq



Proposal 15349 - Visit M3 - From the longest GRBs to the brightest supernovae

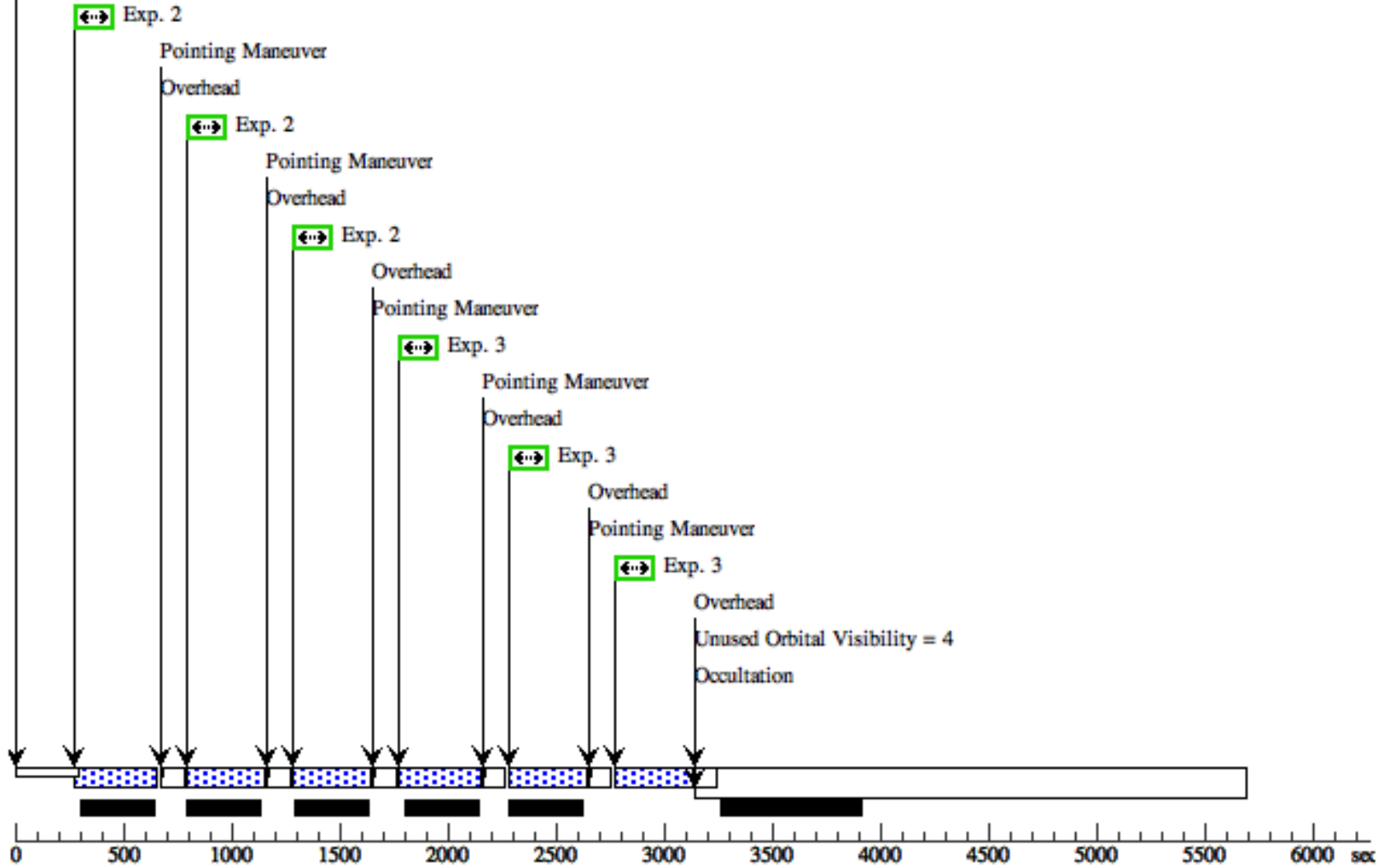
Mon Sep 23 13:01:38 GMT 2019

Visit	Proposal 15349, Visit M3 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 31-JAN-2020:00:00:00									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(2)	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		(2), (3)						
	(3)	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)	GRB171205A	RA: 11 09 39.4900 (167.4145417d) Dec: -12 35 18.60 (-12.58850d) Equinox: J2000		V=20+/-1	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) GRB171205A	WFC3/UVIS, ACCUM, UVIS2	F300X	FLASH=10	POS TARG 0,0	Pattern 3, Exps 1-1 in Visit M3 (3)	600 Secs (2400 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2		(4) GRB171205A	WFC3/UVIS, ACCUM, UVIS2	F475W	CR-SPLIT=NO; FLASH=4	POS TARG 0,0	Pattern 2, Exps 2-2 in Visit M3 (2)	350 Secs (1083 Secs)	
								[==>361.0 Secs (Pattern 1)] [==>361.0 Secs (Pattern 2)] [==>361.0 Secs (Pattern 3)]	[2]	
3		(4) GRB171205A	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG 0,0	Pattern 2, Exps 3-3 in Visit M3 (2)	350 Secs (1083 Secs)		
								[==>361.0 Secs (Pattern 1)] [==>361.0 Secs (Pattern 2)] [==>361.0 Secs (Pattern 3)]	[2]	



Orbit 2

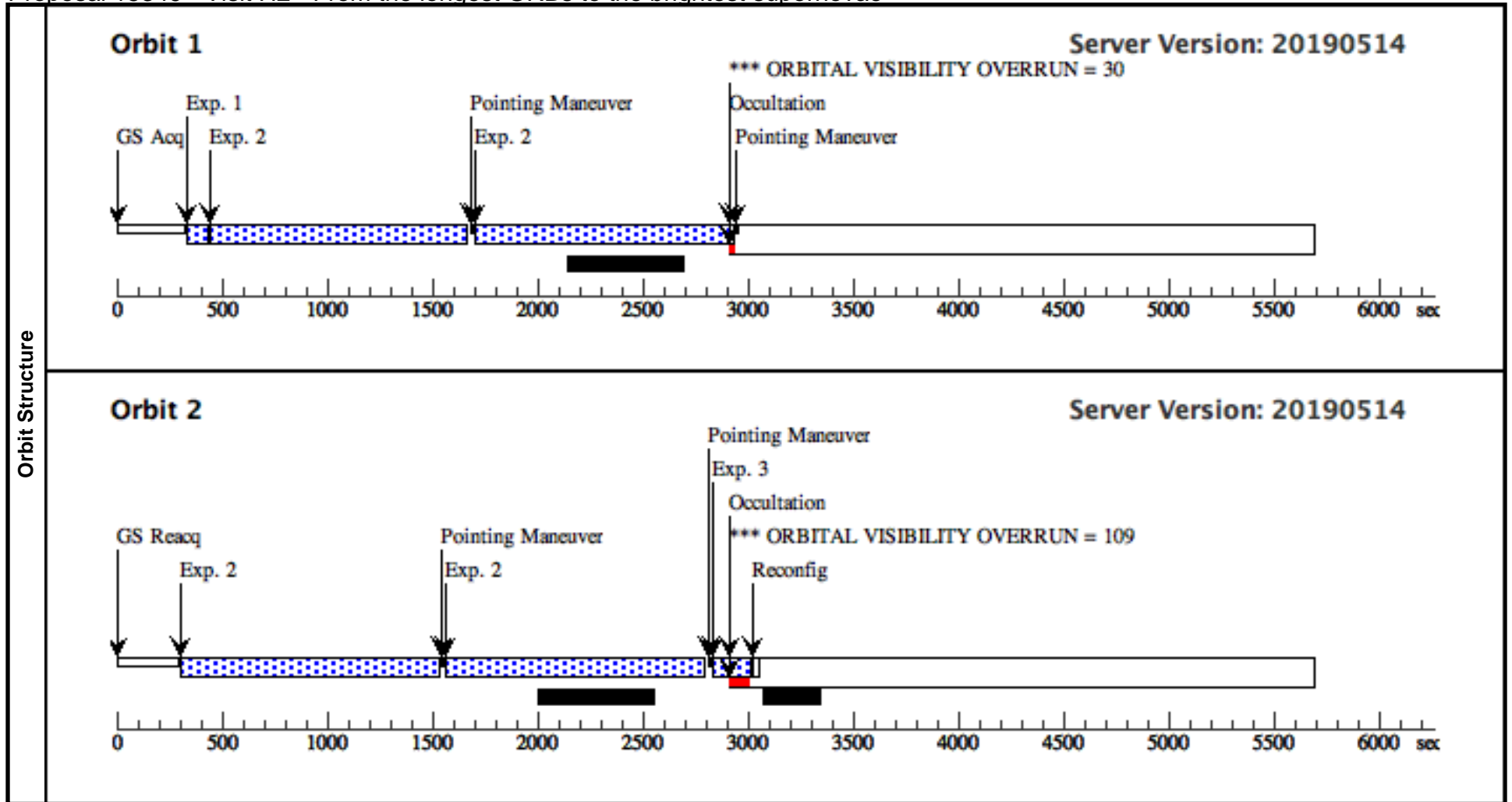
GS Reacq



Proposal 15349 - Visit H2 - From the longest GRBs to the brightest supernovae

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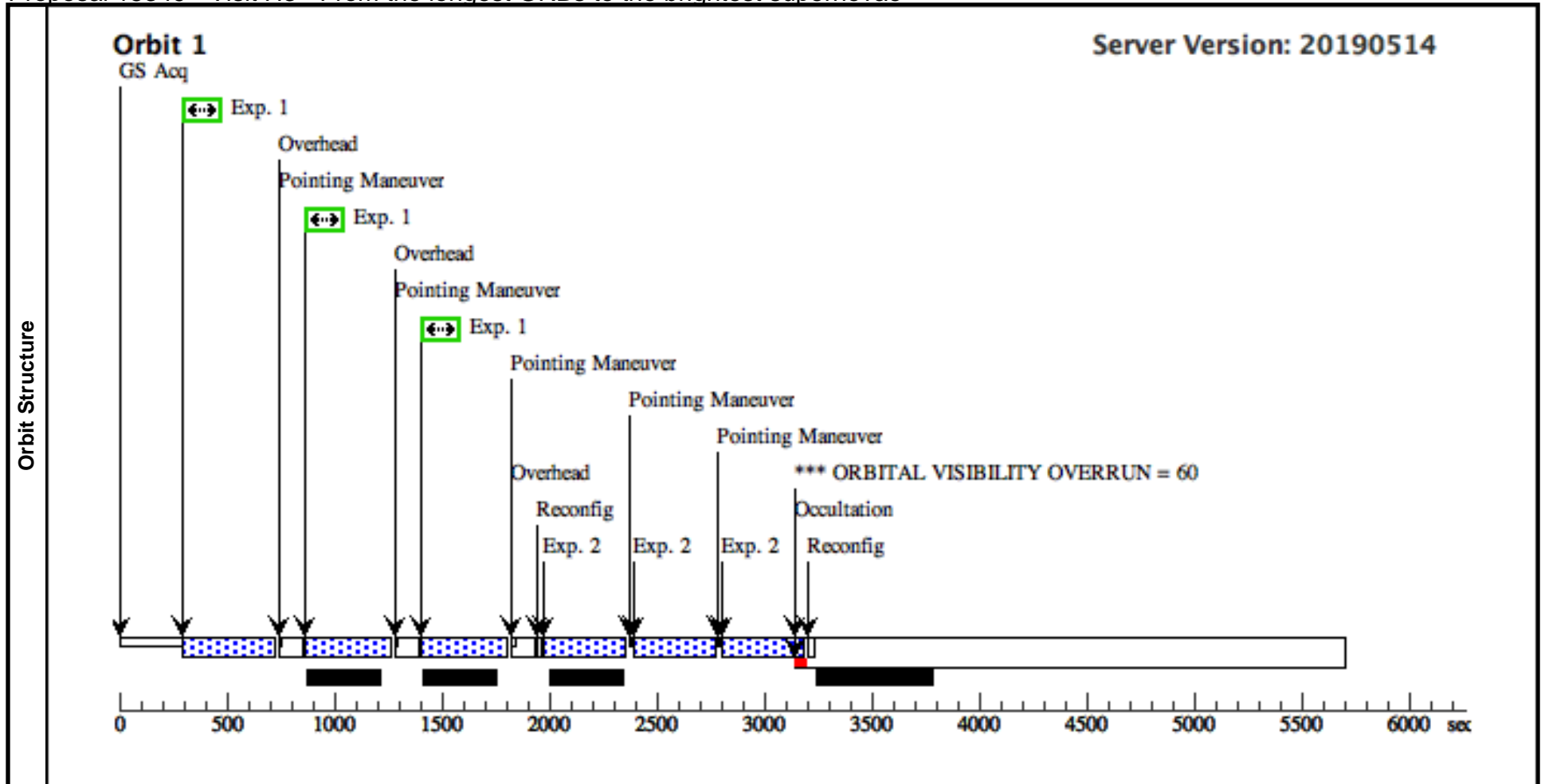
Visit	Proposal 15349, Visit H2, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ON HOLD <i>On Hold Comments: Awaiting trigger</i>									
	(Visit H2) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit H2) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(6)	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				(2)
Generic Targets	#	Name	Criteria			Description				
	(1)	ULGRBTDE1	Ultra-long GRB or TDE candidate			X-RAY EMITTER				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) ULGRBTDE1	WFC3/IR, MULTIACCUM, GRISM1024	F110W	SAMP-SEQ=STEP25; NSAMP=7			74.230741 Secs (74.231 Secs) [==>]	[1]
	2		(1) ULGRBTDE1	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=13; SAMP-SEQ=SPAR S100		Pattern 6, Exps 2-2 in Visit H2 (6)	1202.936167 Secs (4811.745 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1] [2]
	3		(1) ULGRBTDE1	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=4; SAMP-SEQ=SPAR S50			152.933644 Secs (152.934 Secs) [==>]	[2]



Proposal 15349 - Visit H3 - From the longest GRBs to the brightest supernovae

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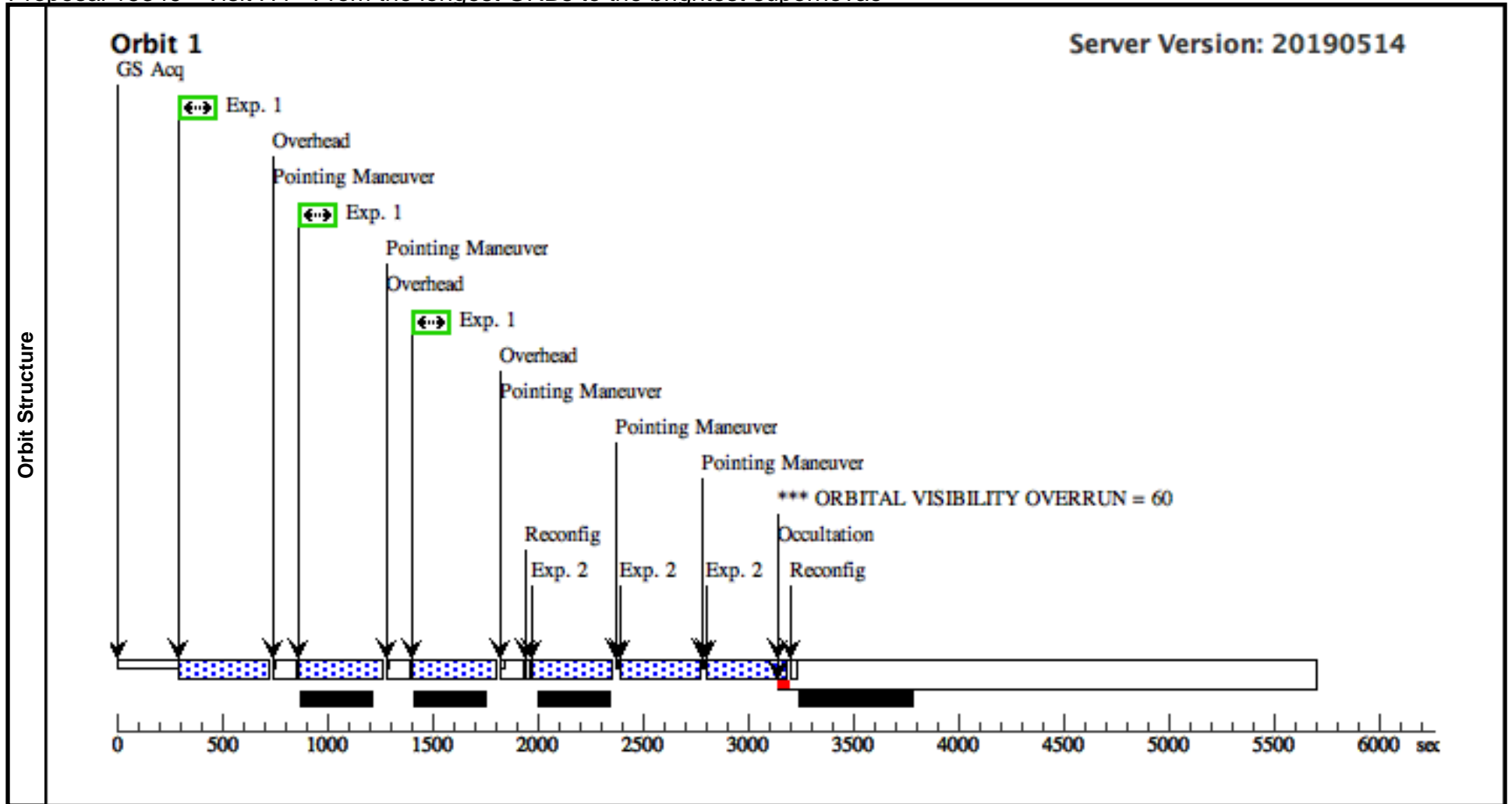
Visit	Proposal 15349, Visit H3, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: ON HOLD <i>On Hold Comments: Awaiting Dark GRB position from Chandra</i>										
	Diagnosics (Visit H3) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false								(2)	
(2)	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)	ULGRBTDE1	Ultra-long GRB or TDE candidate			X-RAY EMITTER					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(1) ULGRBTDE1	WFC3/UVIS, ACCUM, UVIS	F336W	CR-SPLIT=NO; FLASH=11	Pattern 2, Exps 1-1 in Visit H3 (2)		370 Secs (1212 Secs) [==>404.0 Secs (Pattern 1)] [==>404.0 Secs (Pattern 2)] [==>404.0 Secs (Pattern 3)]		[1]	
2	(1) ULGRBTDE1	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPAR S50	Pattern 1, Exps 2-2 in Visit H3 (1)		352.935448 Secs (1058.806 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]		[1]		



Proposal 15349 - Visit H4 - From the longest GRBs to the brightest supernovae

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Visit	Proposal 15349, Visit H4, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: ON HOLD <i>On Hold Comments: Awaiting Dark GRB position from Chandra</i>									
	Diagnosics (Visit H4) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false						(2)
(2)	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)	ULGRBTDE1	Ultra-long GRB or TDE candidate	X-RAY EMITTER						
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) ULGRBTDE1	WFC3/UVIS, ACCUM, UVIS	F336W	CR-SPLIT=NO; FLASH=11	Pattern 2, Exps 1-1 in Visit H4 (2)		370 Secs (1212 Secs) [==>404.0 Secs (Pattern 1)] [==>404.0 Secs (Pattern 2)] [==>404.0 Secs (Pattern 3)]	[1]	
2	(1) ULGRBTDE1	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPAR S50	Pattern 1, Exps 2-2 in Visit H4 (1)		352.935448 Secs (1058.806 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]		

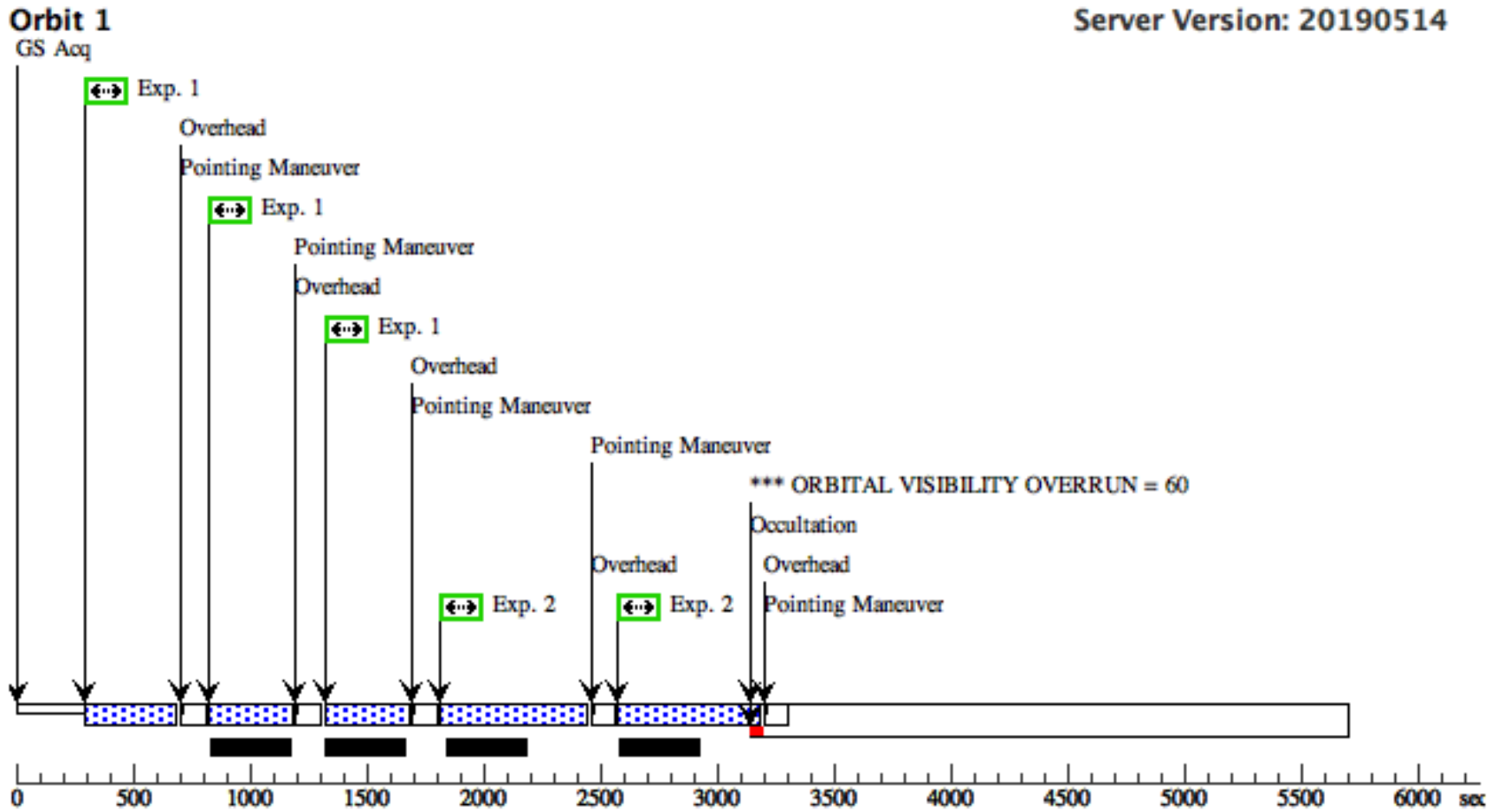


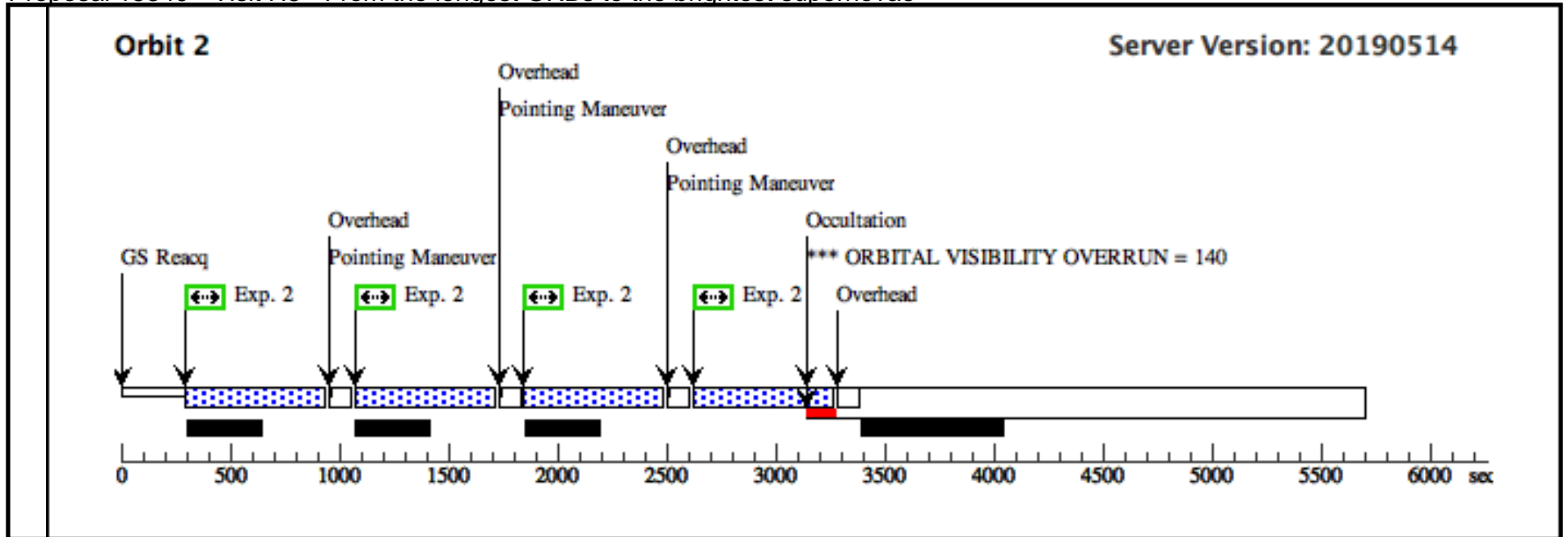
Proposal 15349 - Visit H5 - From the longest GRBs to the brightest supernovae

Mon Sep 23 13:01:38 GMT 2019

Visit	Proposal 15349, Visit H5, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ON HOLD <i>On Hold Comments: Awaiting Dark GRB position from Chandra</i>									
	(Visit H5) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit H5) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(2)	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)		
(7)	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-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false					(2)	
Generic Targets	#	Name	Criteria	Description						
	(1)	ULGRBTDE1	Ultra-long GRB or TDE candidate	X-RAY EMITTER						
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) ULGRBTDE1	WFC3/UVIS, ACCUM, UVIS	F336W	FLASH=11	Pattern 2, Exps 1-1 in Visit H5 (2)		350 Secs (1083 Secs) [==>361.0 Secs (Pattern 1)] [==>361.0 Secs (Pattern 2)] [==>361.0 Secs (Pattern 3)]	[1]	
2	(1) ULGRBTDE1	WFC3/UVIS, ACCUM, UVIS	G280	CR-SPLIT=NO	Pattern 7, Exps 2-2 in Visit H5 (7)		600 Secs (3810 Secs) [==>611.0 Secs (Pattern 1,1)] [==>611.0 Secs (Pattern 1,2)] [==>647.0 Secs (Pattern 1,3)] [==>647.0 Secs (Pattern 2,1)] [==>647.0 Secs (Pattern 2,2)] [==>647.0 Secs (Pattern 2,3)]	[2]		

Orbit Structure

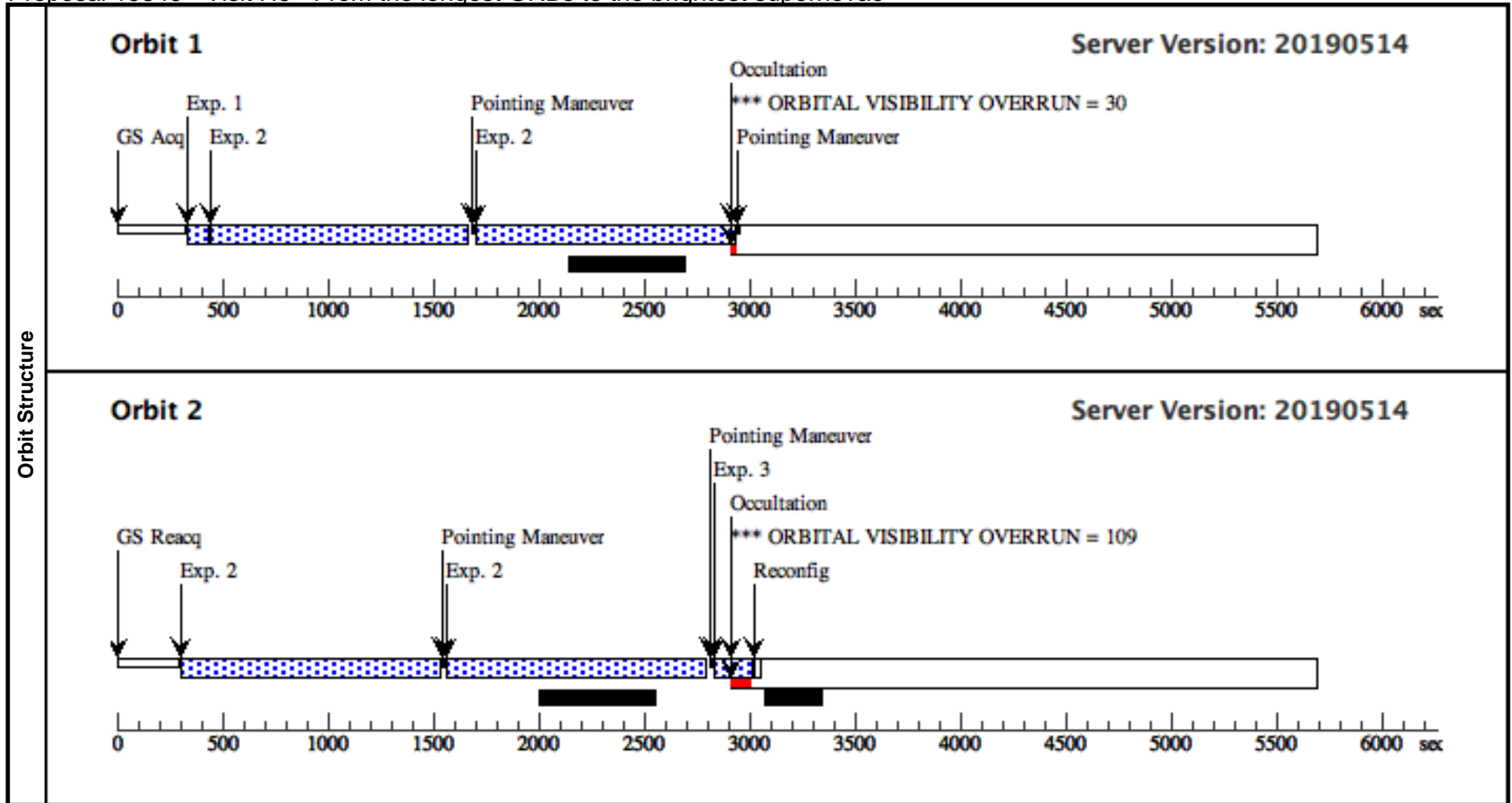




Proposal 15349 - Visit H6 - From the longest GRBs to the brightest supernovae

Mon Sep 23 13:01:39 GMT 2019

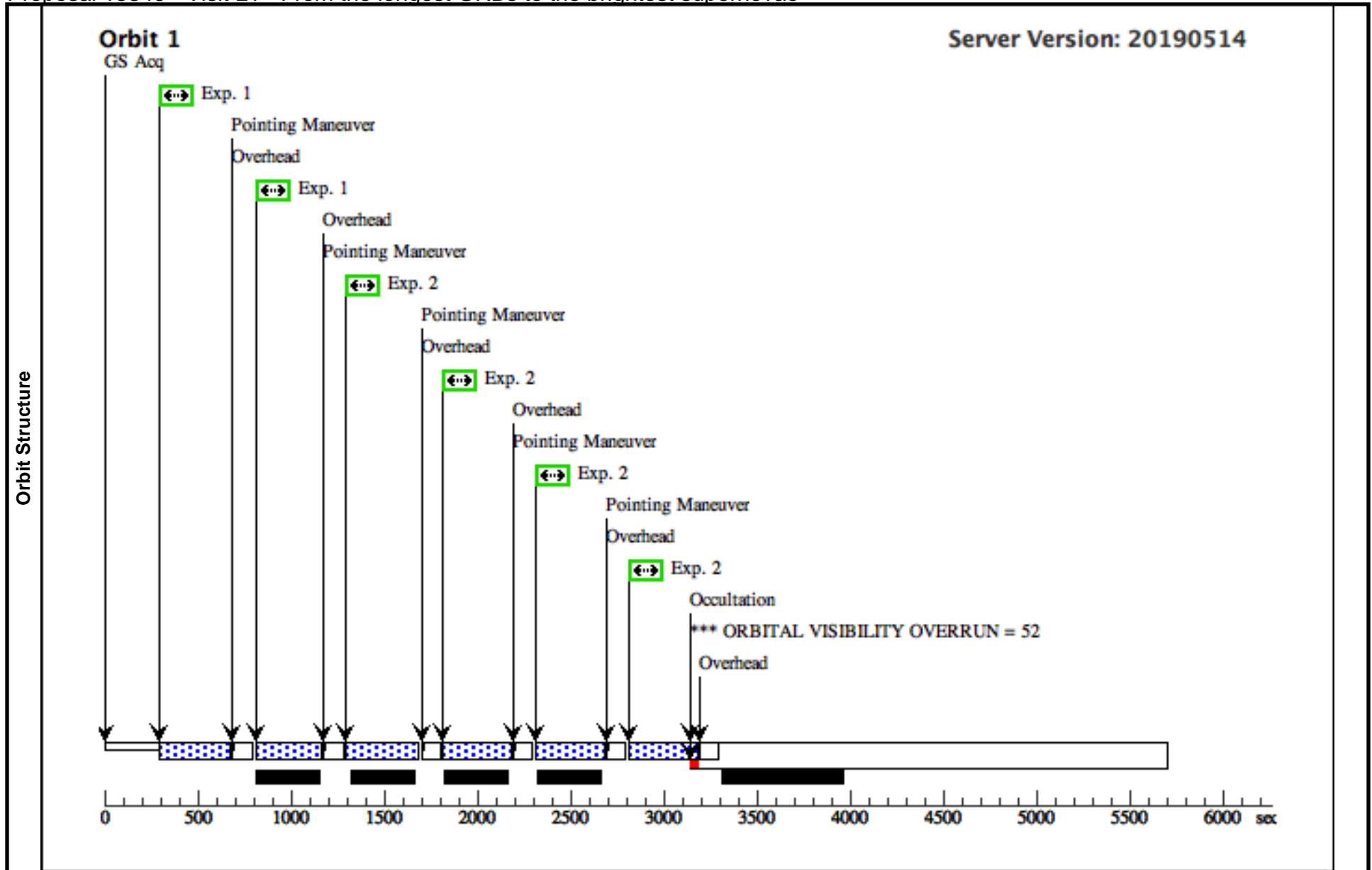
Visit	Proposal 15349, Visit H6, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ON HOLD <i>On Hold Comments: Awaiting trigger</i>										
	(Visit H6) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit H6) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(6)	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				(2)	
Generic Targets	#	Name		Criteria		Description					
	(1)	ULGRBTDE1		Ultra-long GRB or TDE candidate		X-RAY EMITTER					
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) ULGRBTDE1	WFC3/IR, MULTIACCUM, GRISM1024		F110W	SAMP-SEQ=STEP25; NSAMP=7			74.230741 Secs (74.231 Secs) [==>]	[1]
	2		(1) ULGRBTDE1	WFC3/IR, MULTIACCUM, GRISM1024		G102	NSAMP=13; SAMP-SEQ=SPAR S100		Pattern 6, Exps 2-2 in Visit H6 (6)	1202.936167 Secs (4811.745 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1] [2]
	3		(1) ULGRBTDE1	WFC3/IR, MULTIACCUM, GRISM1024		F110W	NSAMP=4; SAMP-SEQ=SPAR S50			152.933644 Secs (152.934 Secs) [==>]	[2]



Proposal 15349 - Visit L1 - From the longest GRBs to the brightest supernovae

Mon Sep 23 13:01:39 GMT 2019

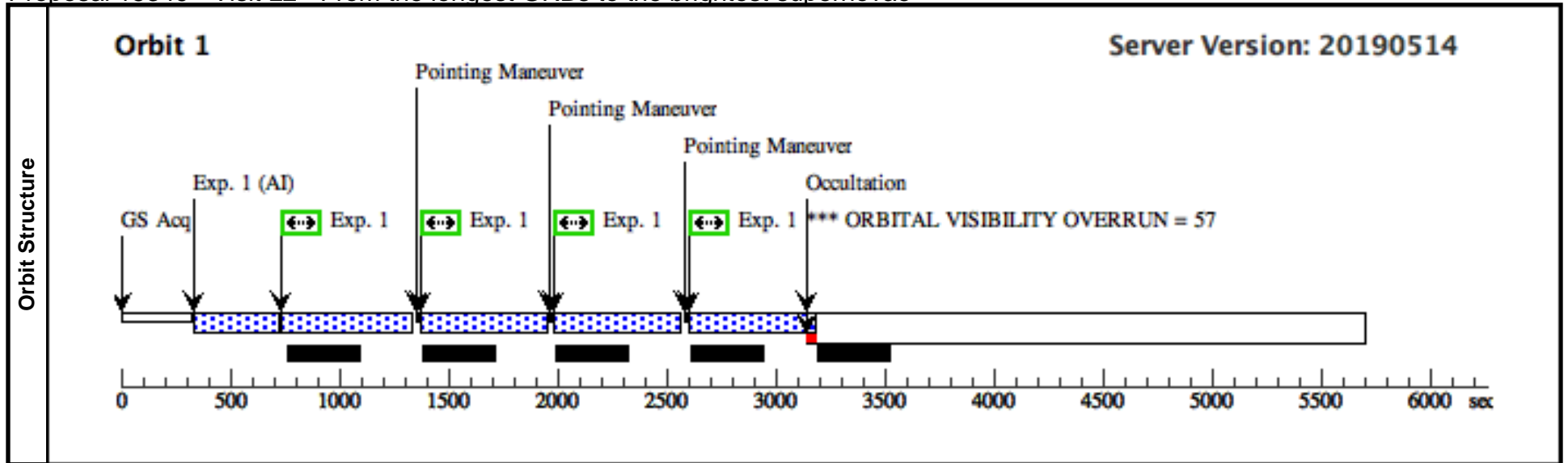
Visit	Proposal 15349, Visit L1, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ON HOLD <i>On Hold Comments: Awaiting Dark GRB position from Chandra</i>									
	Diagnosics (Visit L1) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(2)		
(5)	Pattern Type=WFC3-UVIS-DITHER-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					(1)			
Generic Targets	#	Name	Criteria	Description						
	(1)	ULGRBTDE1	Ultra-long GRB or TDE candidate	X-RAY EMITTER						
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) ULGRBTDE1	WFC3/UVIS, ACCUM, UVIS	F336W	FLASH=11			Pattern 5, Exps 1-1 in Visit L1 (5)	348 Secs (696 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
2	(1) ULGRBTDE1	WFC3/UVIS, ACCUM, UVIS	G280	CR-SPLIT=NO			Pattern 3, Exps 2-2 in Visit L1 (3)	370 Secs (1480 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]	



Proposal 15349 - Visit L2 - From the longest GRBs to the brightest supernovae

Mon Sep 23 13:01:39 GMT 2019

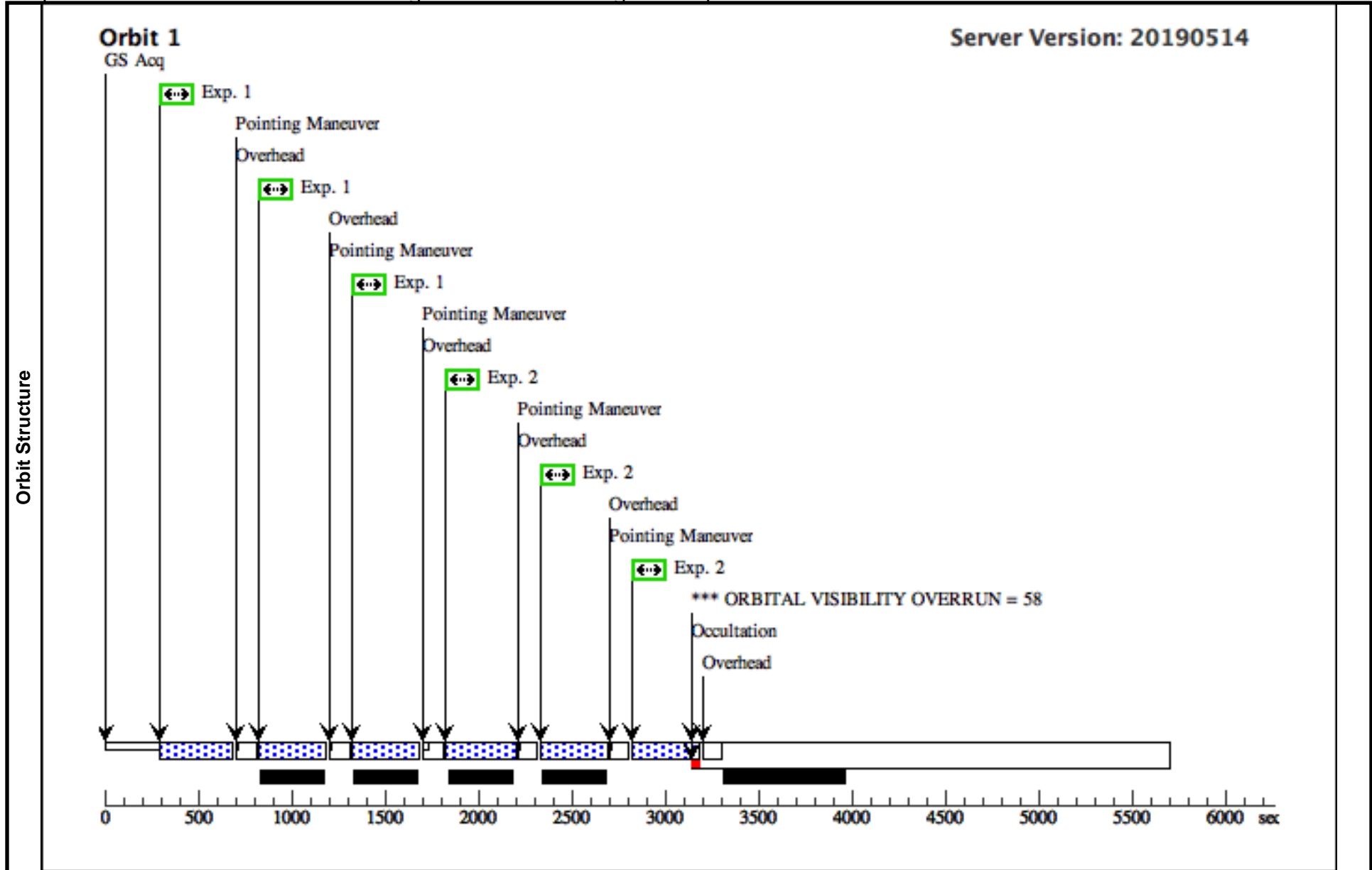
Visit	Proposal 15349, Visit L2, implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: ON HOLD <i>On Hold Comments: Awaiting trigger</i>										
	(Visit L2) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(4)	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)	
Generic Targets	#	Name	Criteria			Description					
	(2)	ULGRBTDE2	Ultra-long GRB or TDE candidate								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(2) ULGRBTDE2	ACS/WFC, ACCUM, WFC-FIX	G800L	POS TARG 75,-95	Pattern 4, Exps 1-1 in Visit L2 (4)	400 Secs (1828 Secs)		[=>457.0 Secs (Pattern 1)] [=>457.0 Secs (Pattern 2)] [=>457.0 Secs (Pattern 3)] [=>457.0 Secs (Pattern 4)]		[1]



Proposal 15349 - Visit L3 - From the longest GRBs to the brightest supernovae

Mon Sep 23 13:01:39 GMT 2019

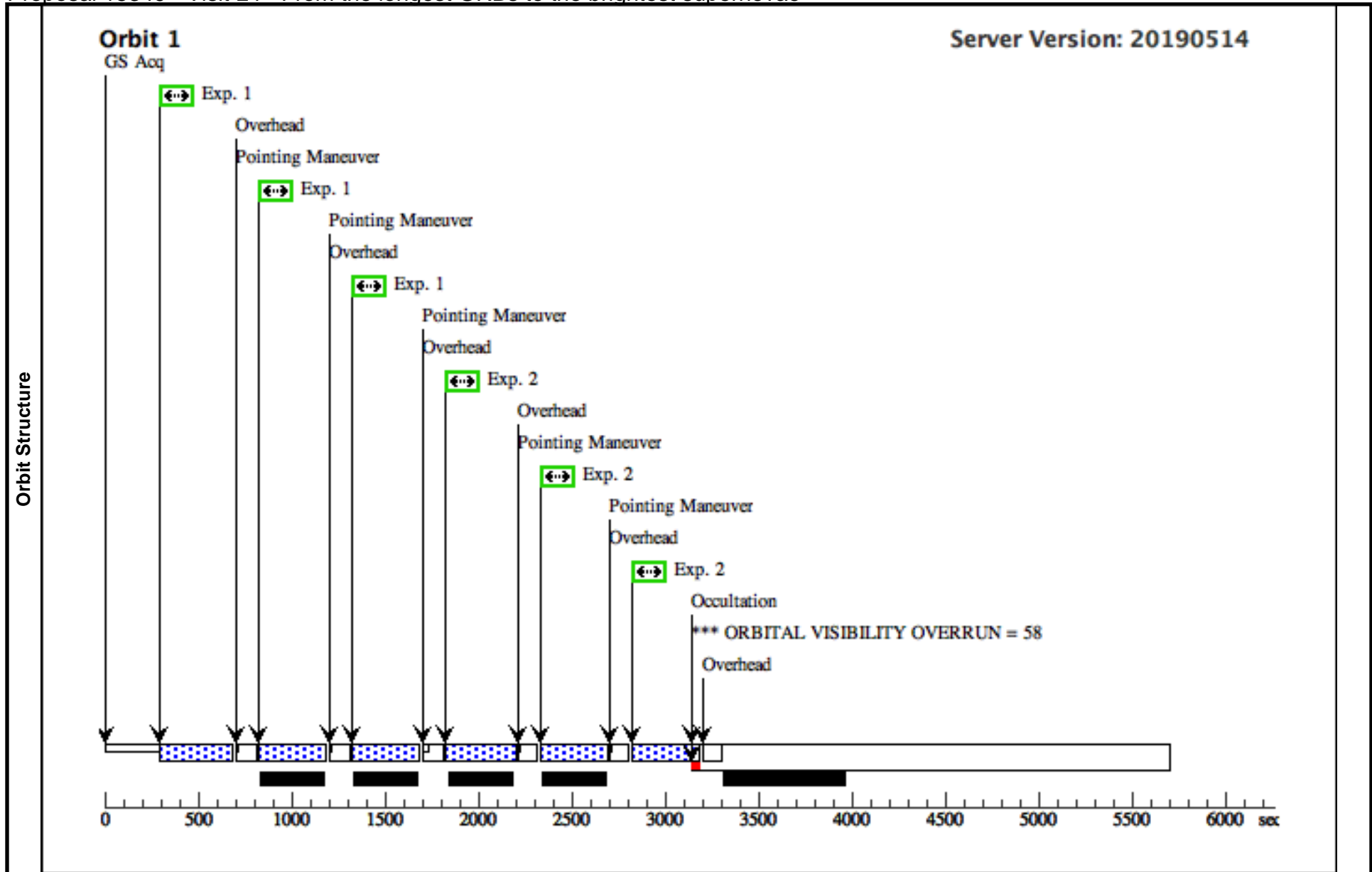
Visit	Proposal 15349, Visit L3, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ON HOLD <i>On Hold Comments: Awaiting Dark GRB position from Chandra</i>										
	(Visit L3) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(2)	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), (2)	
Generic Targets	#	Name	Criteria			Description					
	(1)	ULGRBTDE1	Ultra-long GRB or TDE candidate			X-RAY EMITTER					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(1) ULGRBTDE1	WFC3/UVIS, ACCUM, UVIS	F336W	CR-SPLIT=NO; FLASH=11	Pattern 2, Exps 1-1 i n Visit L3 (2)		370 Secs (1089 Secs)			
									[=>363.0 Secs (Pattern 1)]		
									[=>363.0 Secs (Pattern 2)]		[1]
									[=>363.0 Secs (Pattern 3)]		
2	(1) ULGRBTDE1	WFC3/UVIS, ACCUM, UVIS2	F606W	Pattern 2, Exps 2-2 i n Visit L3 (2)		417 Secs (1089 Secs)					
								[=>363.0 Secs (Pattern 1)]			
								[=>363.0 Secs (Pattern 2)]		[1]	
								[=>363.0 Secs (Pattern 3)]			



Proposal 15349 - Visit L4 - From the longest GRBs to the brightest supernovae

Mon Sep 23 13:01:39 GMT 2019

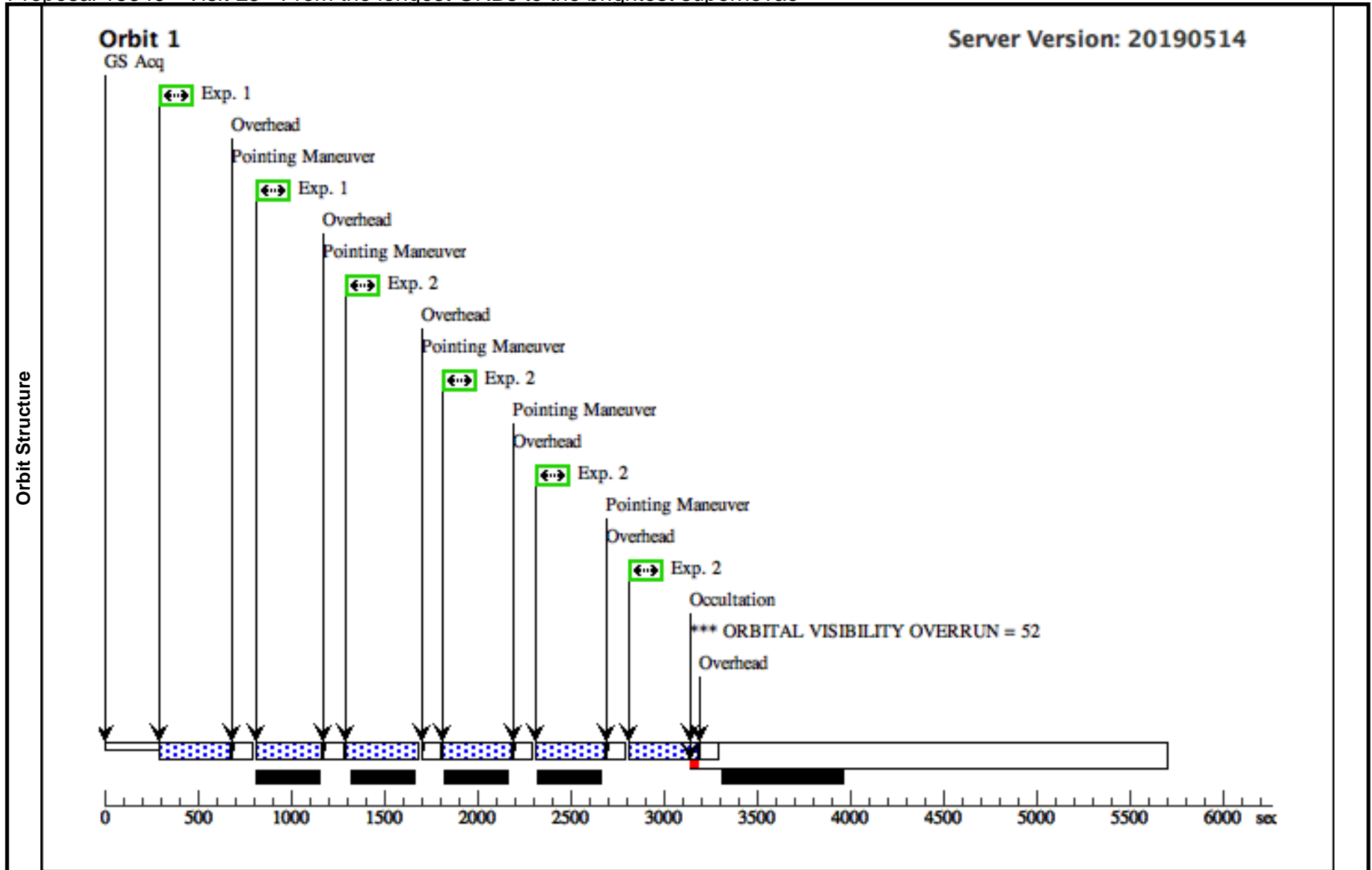
Visit	Proposal 15349, Visit L4, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ON HOLD <i>On Hold Comments: Awaiting Dark GRB position from Chandra</i>										
	(Visit L4) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(2)	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), (2)	
Generic Targets	#	Name		Criteria		Description					
	(1)	ULGRBTDE1		Ultra-long GRB or TDE candidate		X-RAY EMITTER					
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) ULGRBTDE1	WFC3/UVIS, ACCUM, UVIS	F336W	CR-SPLIT=NO; FLASH=11	Pattern 2, Exps 1-1 i n Visit L4 (2)	370 Secs (1089 Secs)				
								[=>363.0 Secs (Pattern 1)]	[1]		
								[=>363.0 Secs (Pattern 2)]			
2	(1) ULGRBTDE1	WFC3/UVIS, ACCUM, UVIS2	F606W		Pattern 2, Exps 2-2 i n Visit L4 (2)	417 Secs (1089 Secs)					
							[=>363.0 Secs (Pattern 1)]	[1]			
							[=>363.0 Secs (Pattern 2)]				
							[=>363.0 Secs (Pattern 3)]				



Proposal 15349 - Visit L5 - From the longest GRBs to the brightest supernovae

Mon Sep 23 13:01:39 GMT 2019

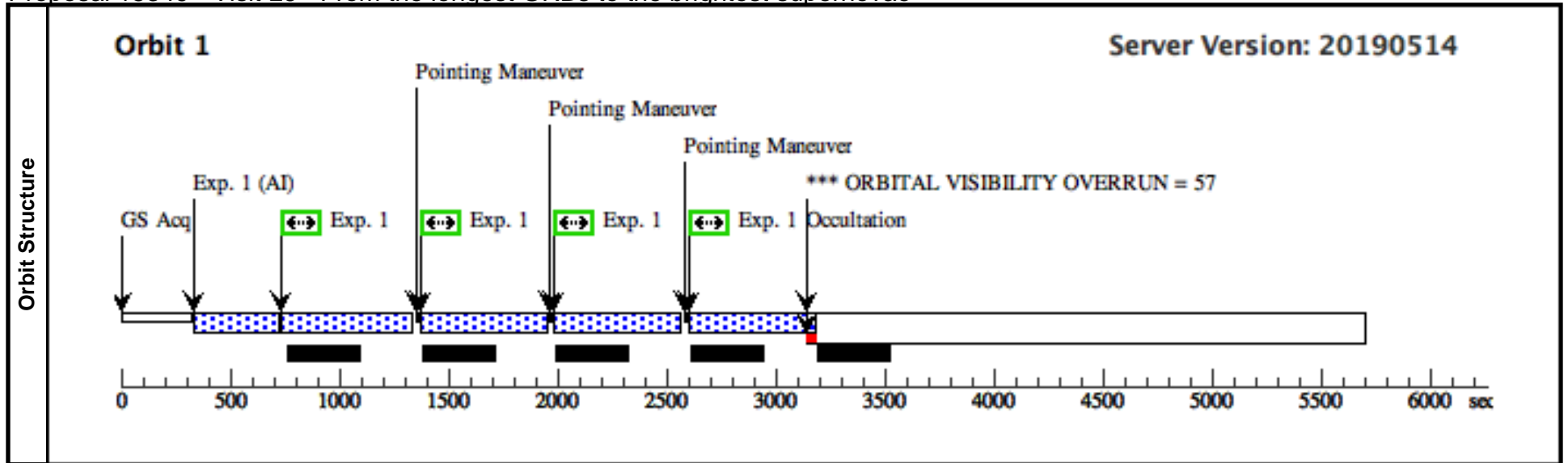
Visit	Proposal 15349, Visit L5, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ON HOLD <i>On Hold Comments: Awaiting Dark GRB position from Chandra</i>									
	Diagnosics (Visit L5) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112		Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false						(2)
(5)	Pattern Type=WFC3-UVIS-DITHER-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						(1)	
Generic Targets	#	Name	Criteria	Description						
	(1)	ULGRBTDE1	Ultra-long GRB or TDE candidate	X-RAY EMITTER						
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) ULGRBTDE1	WFC3/UVIS, ACCUM, UVIS	F336W	FLASH=11			Pattern 5, Exps 1-1 in Visit L5 (5)	348 Secs (696 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
2	(1) ULGRBTDE1	WFC3/UVIS, ACCUM, UVIS	G280	CR-SPLIT=NO				Pattern 3, Exps 2-2 in Visit L5 (3) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]	



Proposal 15349 - Visit L6 - From the longest GRBs to the brightest supernovae

Mon Sep 23 13:01:39 GMT 2019

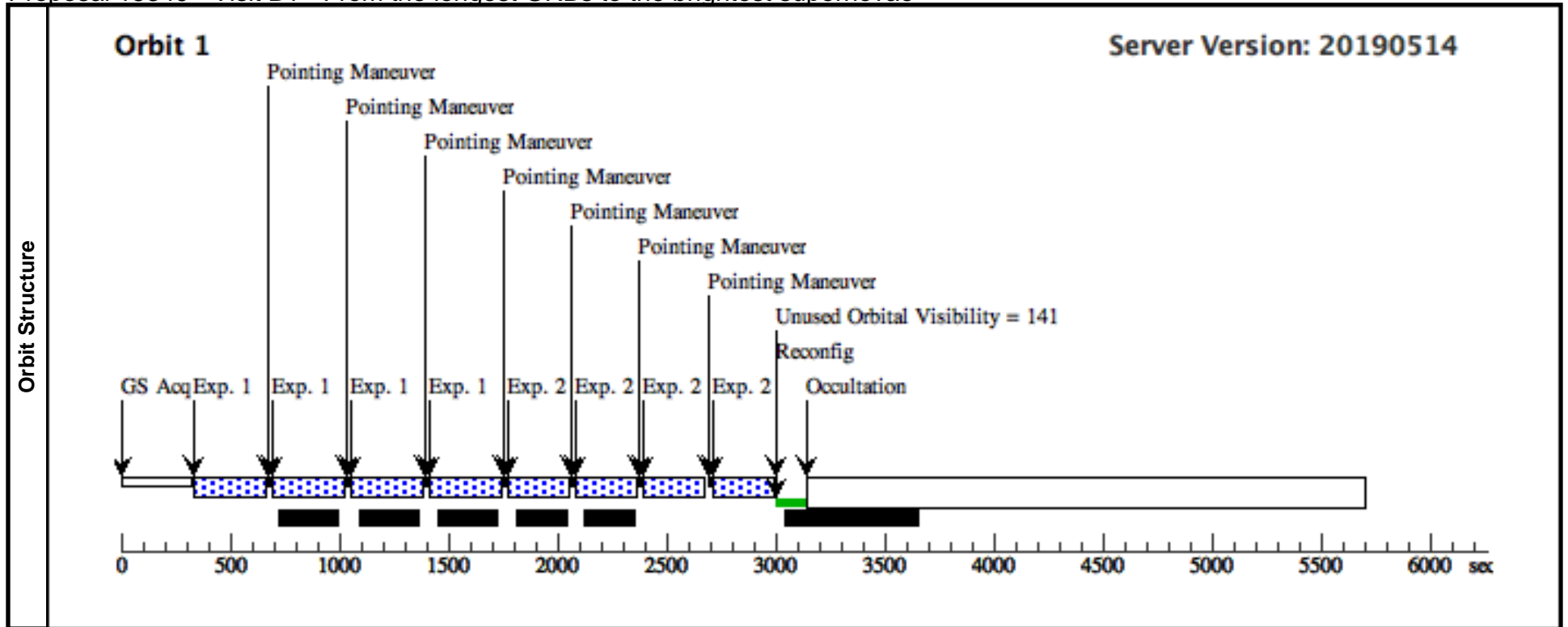
Visit	Proposal 15349, Visit L6, implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: ON HOLD <i>On Hold Comments: Awaiting trigger</i>										
	(Visit L6) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(4)	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)	
Generic Targets	#	Name	Criteria			Description					
	(2)	ULGRBTDE2	Ultra-long GRB or TDE candidate								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(2) ULGRBTDE2	ACS/WFC, ACCUM, WFC-FIX	G800L	POS TARG 75,-95	Pattern 4, Exps 1-1 in Visit L6 (4)	400 Secs (1828 Secs)		[=>457.0 Secs (Pattern 1)] [=>457.0 Secs (Pattern 2)] [=>457.0 Secs (Pattern 3)] [=>457.0 Secs (Pattern 4)]		[1]



Proposal 15349 - Visit B1 - From the longest GRBs to the brightest supernovae

Mon Sep 23 13:01:39 GMT 2019

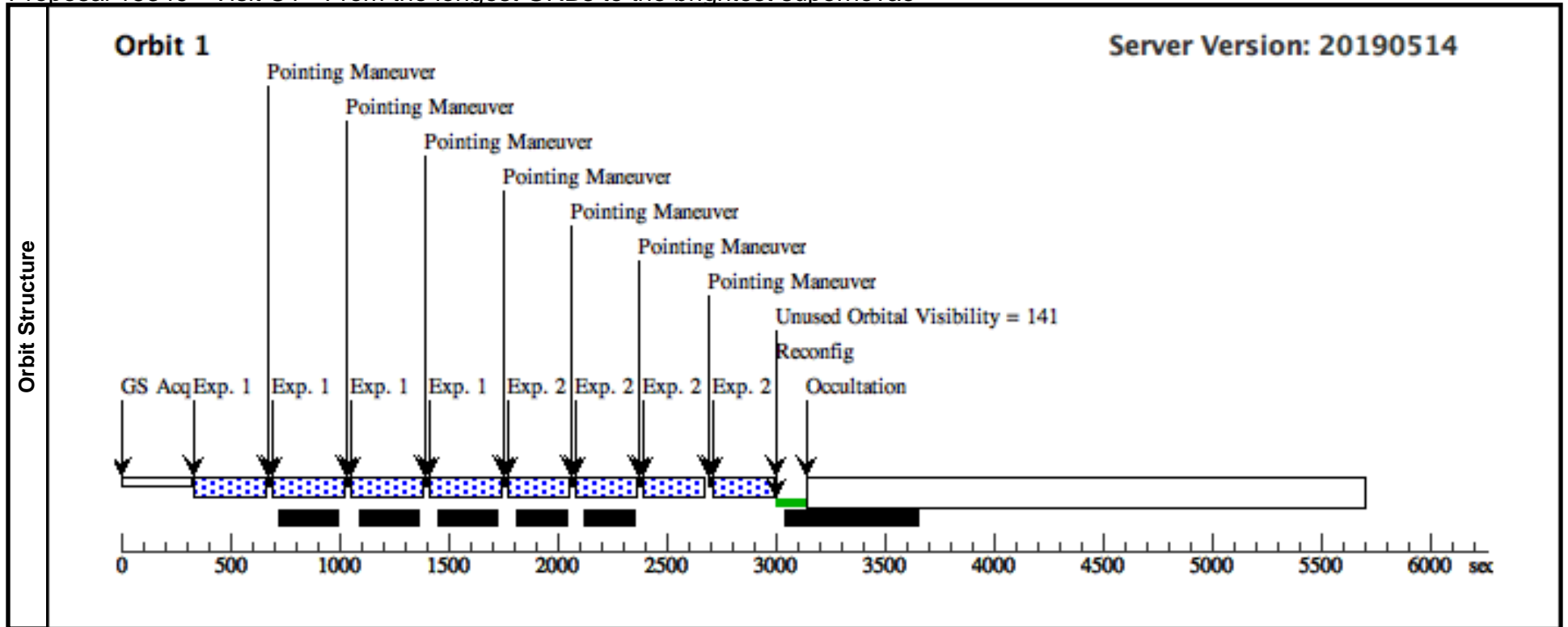
Visit	Proposal 15349, Visit B1, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: BEFORE 18-AUG-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(6)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 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), (2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	GRB170714A	RA: 02 17 23.9700 (34.3498750d) Dec: +01 59 29.00 (1.99139d) Equinox: J2000		V=23+/-1	Reference Frame: ICRS				
	<i>Comments:</i> Category=UNIDENTIFIED Description=[X-RAY EMITTER]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) GRB170714A	WFC3/IR, MULTIACCUM, IR	F110W	SAMP-SEQ=STEP50;		Sequence 1-2 Non-Int in Visit B1	299.232481 Secs (1196.93 Secs)	
							NSAMP=11	Pattern 6, Exps 1-1 in Sequence 1-2 Non-Int in Visit B1 (6)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
2		(3) GRB170714A	WFC3/IR, MULTIACCUM, IR	F140W		NSAMP=10; SAMP-SEQ=STEP50		Sequence 1-2 Non-Int in Visit B1	249.23203 Secs (996.928 Secs)	
							Pattern 6, Exps 2-2 in Sequence 1-2 Non-Int in Visit B1 (6)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	



Proposal 15349 - Visit C1 - From the longest GRBs to the brightest supernovae

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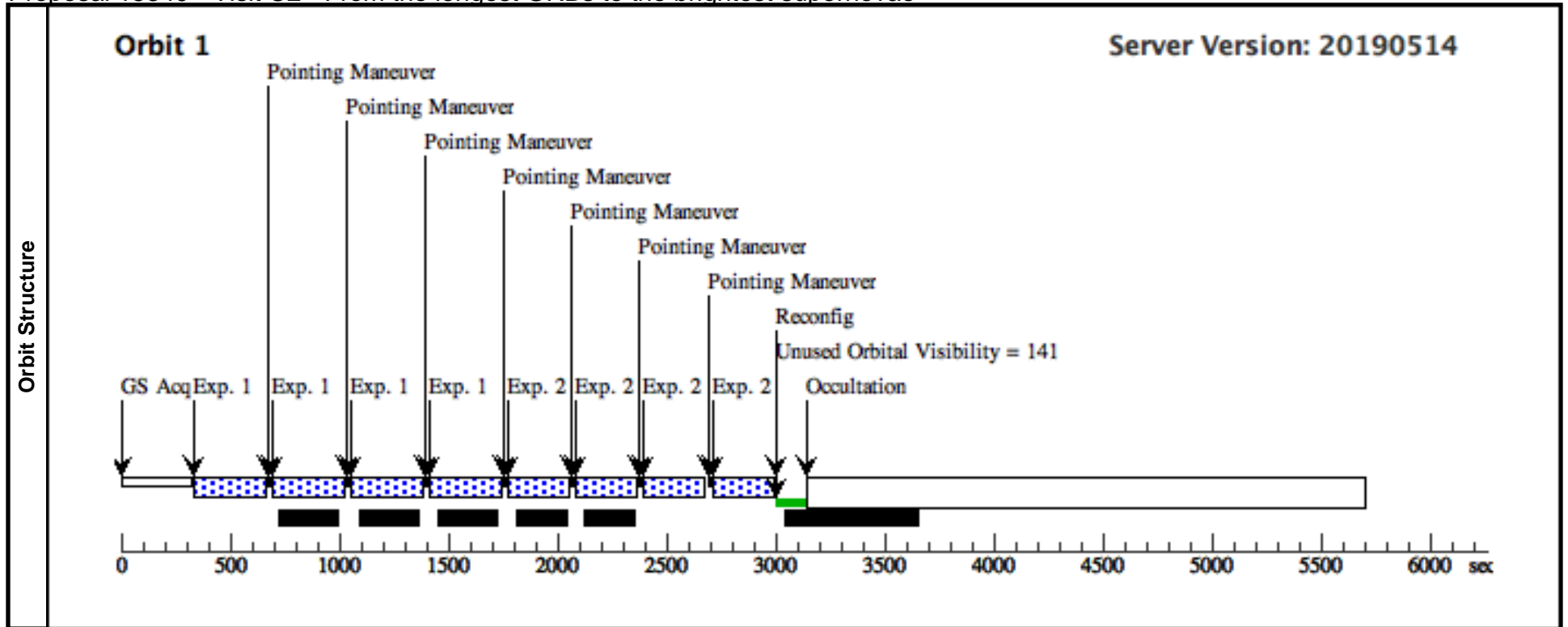
Visit	Proposal 15349, Visit C1, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: BEFORE 18-AUG-2017:00:00:00; ON HOLD <i>On Hold Comments: To do switched on if visits B1-B3 cannot clear airglow issues in time for scheduling</i>									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(6)	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), (2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	GRB170714A	RA: 02 17 23.9700 (34.3498750d) Dec: +01 59 29.00 (1.99139d) Equinox: J2000		V=23+/-1	Reference Frame: ICRS				
	<i>Comments: Category=UNIDENTIFIED Description=[X-RAY EMITTER]</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) GRB170714A	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=STEP50; NSAMP=11		Pattern 6, Exps 1-1 in Visit C1 (6)	299.232481 Secs (1196.93 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2		(3) GRB170714A	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP50		Pattern 6, Exps 2-2 in Visit C1 (6)	249.23203 Secs (996.928 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 15349 - Visit C2 - From the longest GRBs to the brightest supernovae

Mon Sep 23 13:01:39 GMT 2019

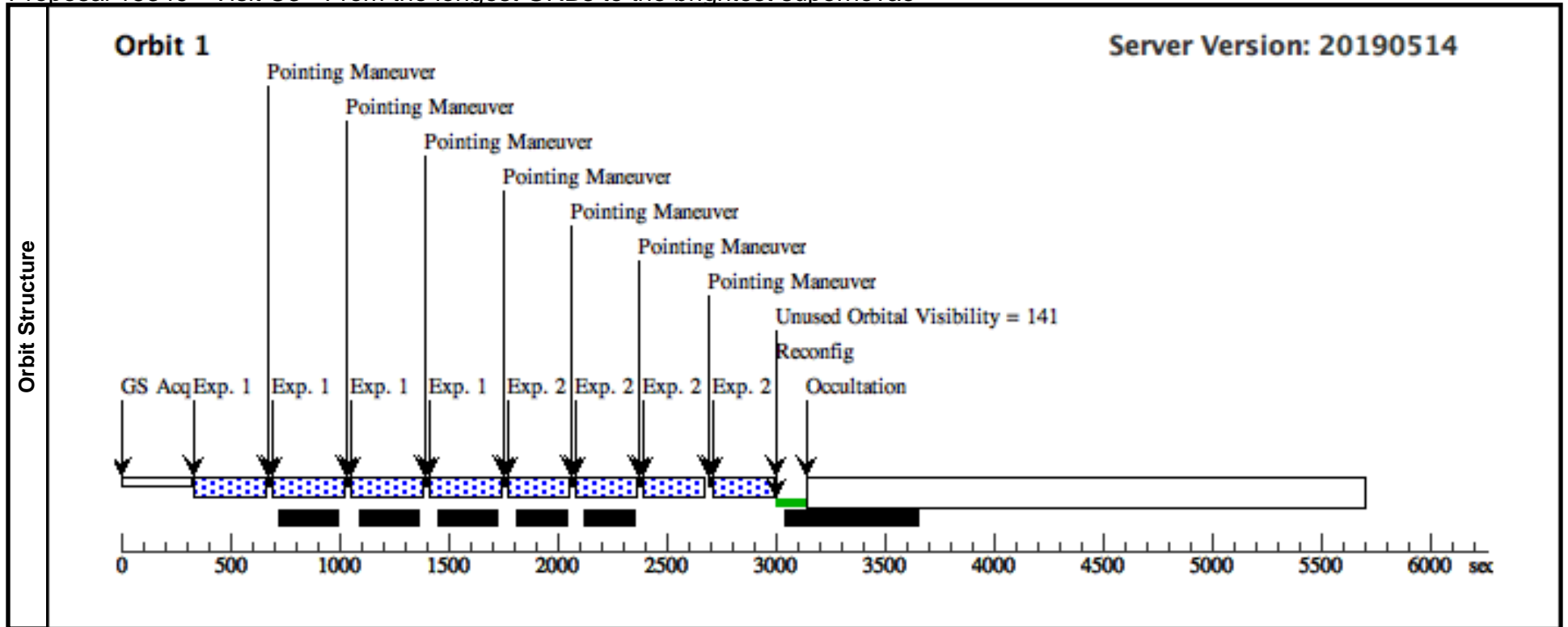
Visit	Proposal 15349, Visit C2, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: AFTER C1 BY 20 D TO 30 D; ON HOLD <i>On Hold Comments: To do switched on if visits B1-B3 cannot clear airglow issues in time for scheduling</i>									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(6)	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), (2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	GRB170714A	RA: 02 17 23.9700 (34.3498750d) Dec: +01 59 29.00 (1.99139d) Equinox: J2000		V=23+/-1	Reference Frame: ICRS				
	<i>Comments:</i> Category=UNIDENTIFIED Description=[X-RAY EMITTER]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) GRB170714A	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=STEP5 0;	POS TARG 0,0	Pattern 6, Exps 1-1 in Visit C2 (6)	299.232481 Secs (1196.93 Secs)	
						NSAMP=11			[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
2		(3) GRB170714A	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP5 0		Pattern 6, Exps 2-2 in Visit C2 (6)	249.23203 Secs (996.928 Secs)		
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	



Proposal 15349 - Visit C3 - From the longest GRBs to the brightest supernovae

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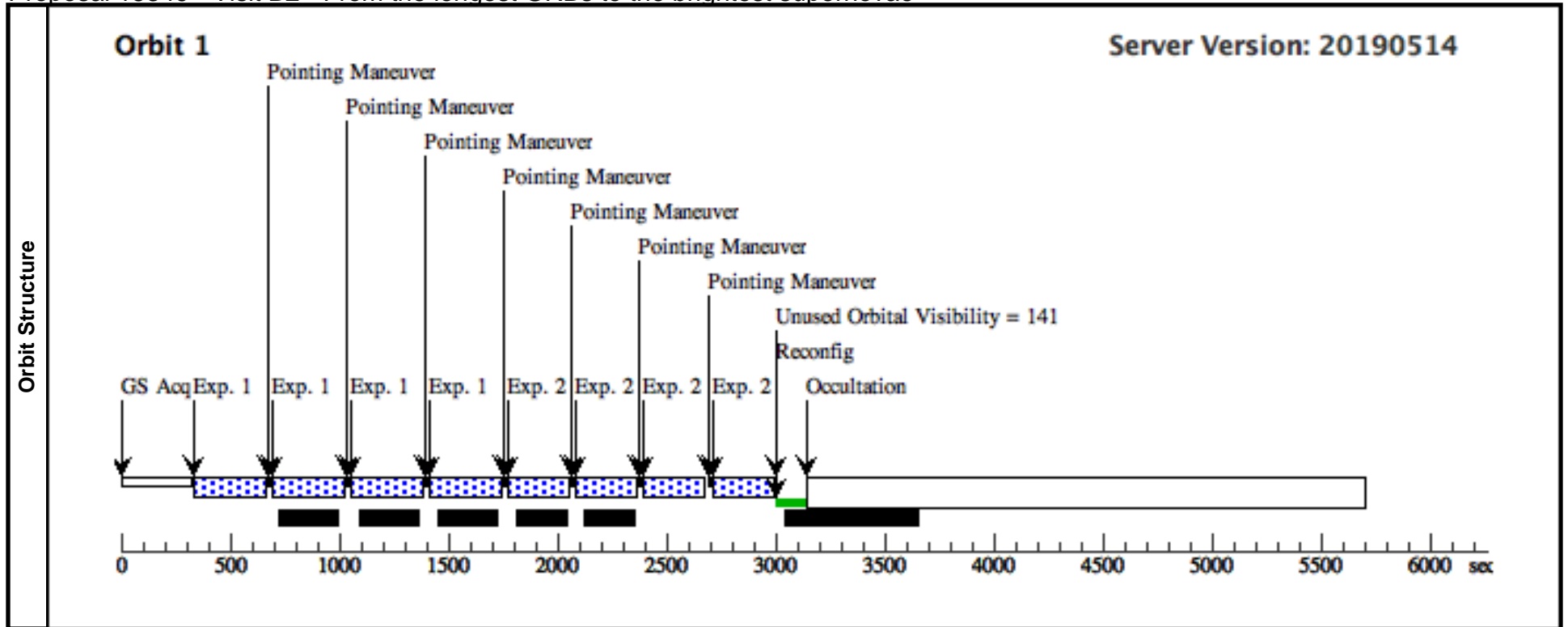
Visit	Proposal 15349, Visit C3, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: AFTER C2 BY 20 D TO 30 D; ON HOLD <i>On Hold Comments: To do switched on if visits B1-B3 cannot clear airglow issues in time for scheduling</i>									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(6)	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), (2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	GRB170714A	RA: 02 17 23.9700 (34.3498750d) Dec: +01 59 29.00 (1.99139d) Equinox: J2000		V=23+/-1	Reference Frame: ICRS				
	<i>Comments:</i> Category=UNIDENTIFIED Description=[X-RAY EMITTER]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) GRB170714A	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=STEP50;		Pattern 6, Exps 1-1 in Visit C3 (6)	299.232481 Secs (1196.93 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2		(3) GRB170714A	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10;	SAMP-SEQ=STEP50		Pattern 6, Exps 2-2 in Visit C3 (6)	249.23203 Secs (996.928 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]



Proposal 15349 - Visit B2 - From the longest GRBs to the brightest supernovae

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Visit	Proposal 15349, Visit B2, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: AFTER B1 BY 20 D TO 30 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(6)	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), (2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	GRB170714A	RA: 02 17 23.9700 (34.3498750d) Dec: +01 59 29.00 (1.99139d) Equinox: J2000		V=23+/-1	Reference Frame: ICRS				
	<i>Comments:</i> Category=UNIDENTIFIED Description=[X-RAY EMITTER]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) GRB170714A	WFC3/IR, MULTIACCUM, IR	F110W	SAMP-SEQ=STEP50; NSAMP=11		Sequence 1-2 Non-Int in Visit B2 Pattern 6, Exps 1-1 in Sequence 1-2 Non-Int in Visit B2 (6)	299.232481 Secs (1196.93 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
2		(3) GRB170714A	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=10; SAMP-SEQ=STEP50		Sequence 1-2 Non-Int in Visit B2 Pattern 6, Exps 2-2 in Sequence 1-2 Non-Int in Visit B2 (6)	249.23203 Secs (996.928 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	



Proposal 15349 - Visit B3 - From the longest GRBs to the brightest supernovae

Mon Sep 23 13:01:39 GMT 2019

Visit	Proposal 15349, Visit B3, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: AFTER B2 BY 20 D TO 30 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(6)	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), (2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	GRB170714A	RA: 02 17 23.9700 (34.3498750d) Dec: +01 59 29.00 (1.99139d) Equinox: J2000		V=23+/-1	Reference Frame: ICRS				
	<i>Comments:</i> Category=UNIDENTIFIED Description=[X-RAY EMITTER]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) GRB170714A	WFC3/IR, MULTIACCUM, IR	F110W	SAMP-SEQ=STEP50; NSAMP=11		Sequence 1-2 Non-Int in Visit B3 Pattern 6, Exps 1-1 in Sequence 1-2 Non-Int in Visit B3 (6)	299.232481 Secs (1196.93 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
2		(3) GRB170714A	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=10; SAMP-SEQ=STEP50		Sequence 1-2 Non-Int in Visit B3 Pattern 6, Exps 2-2 in Sequence 1-2 Non-Int in Visit B3 (6)	249.23203 Secs (996.928 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	

