



15347 - Rapid observations of the first gravitational wave counterparts

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>
G1	(1) GW1	WFC3/IR	1	16-Mar-2020 10:00:25.0	yes
G2	(1) GW1	WFC3/IR	1	16-Mar-2020 10:00:26.0	yes
I1	(1) GW1	WFC3/IR	1	16-Mar-2020 10:00:27.0	yes
I2	(1) GW1	WFC3/IR	1	16-Mar-2020 10:00:28.0	yes
I6	(1) GW1	WFC3/IR	1	16-Mar-2020 10:00:29.0	yes
I7	(1) GW1	WFC3/IR	1	16-Mar-2020 10:00:29.0	yes
X1	(1) GW1	WFC3/IR	2	16-Mar-2020 10:00:30.0	yes
X2	(2) AT2019OSY	WFC3/IR	2	16-Mar-2020 10:00:31.0	yes
X3	(1) GW1	WFC3/IR	1	16-Mar-2020 10:00:32.0	yes
X4	(1) GW1	WFC3/IR	1	16-Mar-2020 10:00:32.0	yes
I3	(1) GW1	WFC3/UVIS	1	16-Mar-2020 10:00:33.0	yes
I4	(1) GW1	WFC3/UVIS	1	16-Mar-2020 10:00:33.0	yes
I5	(1) GW1	WFC3/UVIS	1	16-Mar-2020 10:00:34.0	yes
Y1	(2) AT2019OSY	WFC3/UVIS	1	16-Mar-2020 10:00:34.0	yes
Y2	(2) AT2019OSY	WFC3/UVIS	1	16-Mar-2020 10:00:35.0	yes
Y3	(2) AT2019OSY	WFC3/UVIS	1	16-Mar-2020 10:00:35.0	yes
Y4	(2) AT2019OSY	WFC3/UVIS	1	16-Mar-2020 10:00:36.0	yes
Y5	(2) AT2019OSY	WFC3/UVIS	2	16-Mar-2020 10:00:37.0	yes
Y6	(2) AT2019OSY	WFC3/UVIS	2	16-Mar-2020 10:00:38.0	yes
Y7	(2) AT2019OSY	WFC3/UVIS	2	16-Mar-2020 10:00:39.0	yes
Y8	(2) AT2019OSY	WFC3/UVIS	2	16-Mar-2020 10:00:40.0	yes
N1	(1) GW1	WFC3/UVIS	1	16-Mar-2020 10:00:41.0	yes
N2	(1) GW1	WFC3/UVIS	1	16-Mar-2020 10:00:42.0	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>
N3	(1) GW1	WFC3/UVIS	1	16-Mar-2020 10:00:43.0	yes

30 Total Orbits Used

ABSTRACT

We propose a series of disruptive ToO observations of the first electromagnetic counterparts to gravitational wave sources. These observations will track the likely rapidly fading counterparts to levels a factor 10 fainter than possible from the ground. They will determine the spectral and temporal evolution, evaluate their power sources, ascertain their contribution to the production of heavy elements in the Universe, pinpoint them on their host galaxies, characterise their environments and provide information to hone further searches. These observations will provide a unique and powerful view of a newly discovered, but long awaited class of astronomical object.

OBSERVING DESCRIPTION

This is a proposal to obtain HST observations of the first electromagnetic counterparts to gravitational wave sources. It is a disruptive ToO programme, with the first observations taking place after a few days (3-6 after trigger) and subsequent observations at ~1 week intervals, with some later time follow-up. Our programme envisages different strategies depending on the nature of the counterpart, and we outline these below.

However, as this is a new field, and there is very limited information about the nature of the counterparts it may be necessary to tweak this strategy at the time of trigger in order to ensure the highest possible scientific return.

Rapid follow-up

1) Optical/IR counterpart discovery

In this case we will likely trigger IR spectroscopy to search for kilonova emission. This will be through visits G1 and G2 which call for G102 and G141 grism spectroscopy as well as short direct images in F125W and F160W. Our later observations will be imaging in F125W and F160W (visits I1 and I2) to track the lightcurve. If the source is very faint, then we may omit the grism spectroscopy and use the X visits in F140W instead.

2) X-ray only counterpart discovery

Proposal 15347 (STScI Edit Number: 1, Created: Monday, March 16, 2020 at 9:00:43 AM Eastern Standard Time) - Overview

Here we assume that deep optical observations at the counterpart location have failed to identify a optical counterpart. In this case we will conduct a deep imaging search with HST. This will use visits X1-X4 (1 and 2 orbit visits in F140W) in order to conduct a deep search for any kilonova emission.

Slow follow-up

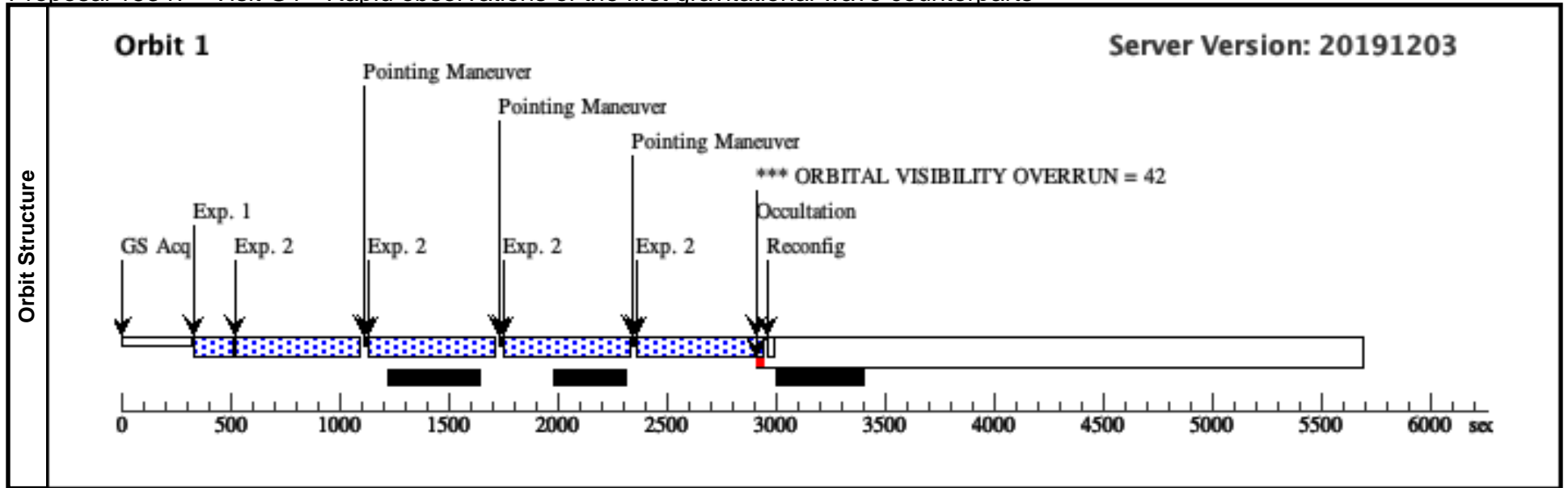
Once the initial observations are complete we will map the evolution of the counterpart for as long as it is visible to HST. We will use optical or IR filters for this as appropriate. For these later observations we will use single orbit integrations in each filter (visits I3-I7, possibly repeated as necessary).

At very late times we will also characterise the environment of the transient. For this we may use UV observations and narrow band observations to search for star formation at the transient location (visits N1-N3 depending on the redshift of the source).

Proposal 15347 - Visit G1 - Rapid observations of the first gravitational wave counterparts

Mon Mar 16 14:00:43 GMT 2020

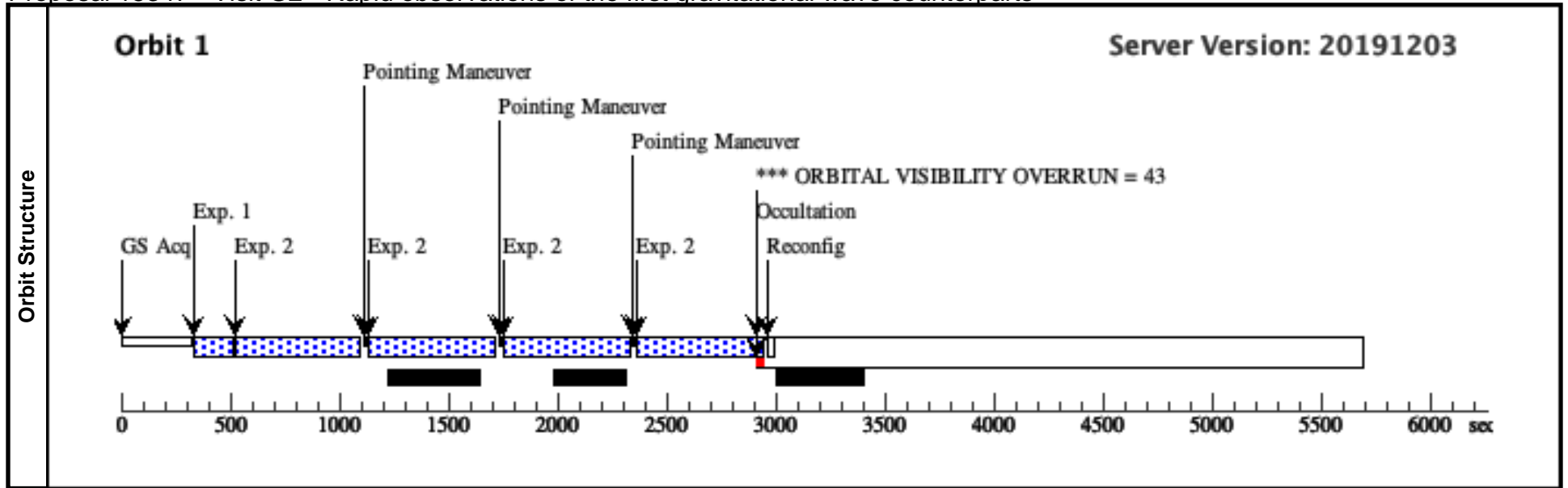
Visit	Proposal 15347, Visit G1, withdrawn Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ON HOLD Comments: F125W/G102 1 orbit On Hold Comments: Awaiting SGRB trigger									
	Diagnosics (Visit G1) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
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				(2)			
Generic Targets	#	Name	Criteria	Description						
	(1)	GW1	candidate GW counterpart							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) GW1	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=4; SAMP-SEQ=SPAR S50			152.933644 Secs (152.934 Secs) [==>]	[1]
	2		(1) GW1	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=12; SAMP-SEQ=SPAR S50		Pattern 1, Exps 2-2 in Visit G1 (1)	552.937252 Secs (2211.749 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 15347 - Visit G2 - Rapid observations of the first gravitational wave counterparts

Mon Mar 16 14:00:44 GMT 2020

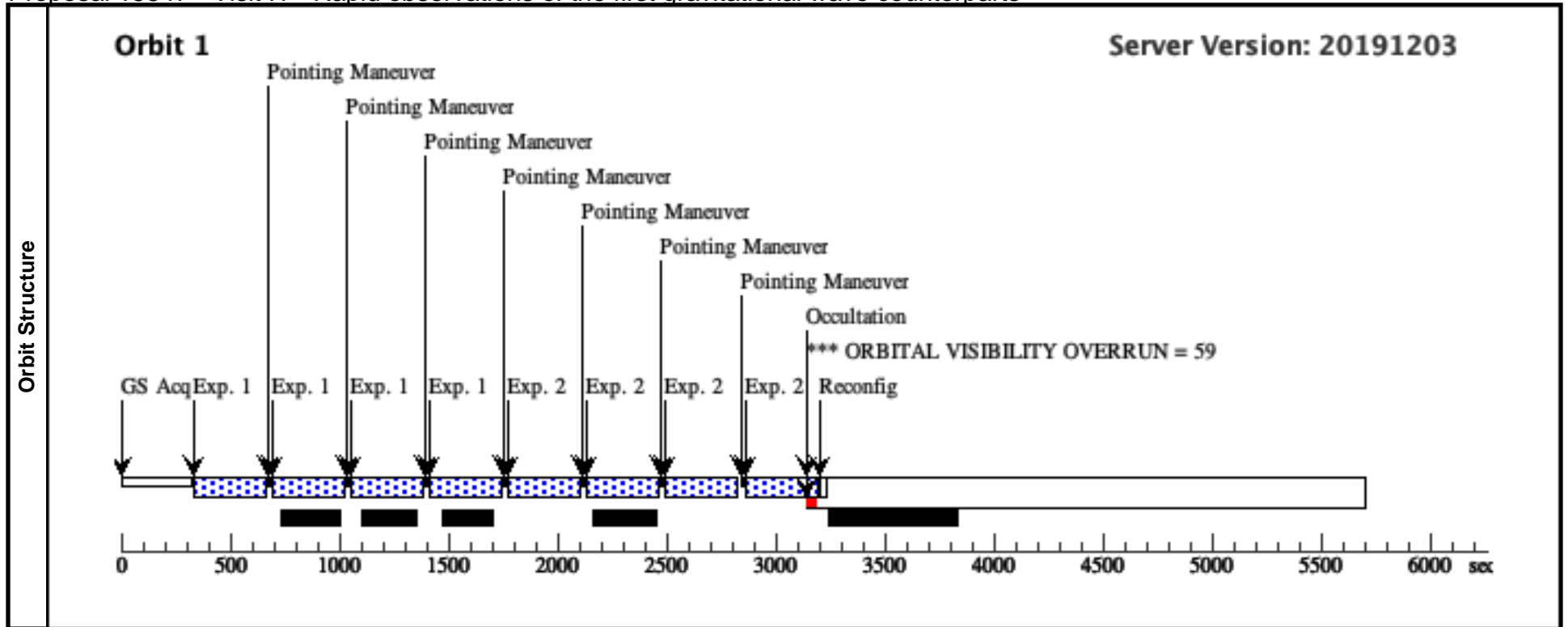
Visit	Proposal 15347, Visit G2, withdrawn Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ON HOLD Comments: F140W/G141 1 orbit On Hold Comments: Awaiting SGRB trigger									
	(Visit G2) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
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			(2)		
Generic Targets	#	Name	Criteria	Description						
	(1)	GW1	candidate GW counterpart							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) GW1	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=4; SAMP-SEQ=SPAR S50			152.933644 Secs (152.934 Secs) [==>]	[1]
	2		(1) GW1	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S50		Pattern 1, Exps 2-2 in Visit G2 (1)	552.937252 Secs (2211.749 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 15347 - Visit I1 - Rapid observations of the first gravitational wave counterparts

Mon Mar 16 14:00:44 GMT 2020

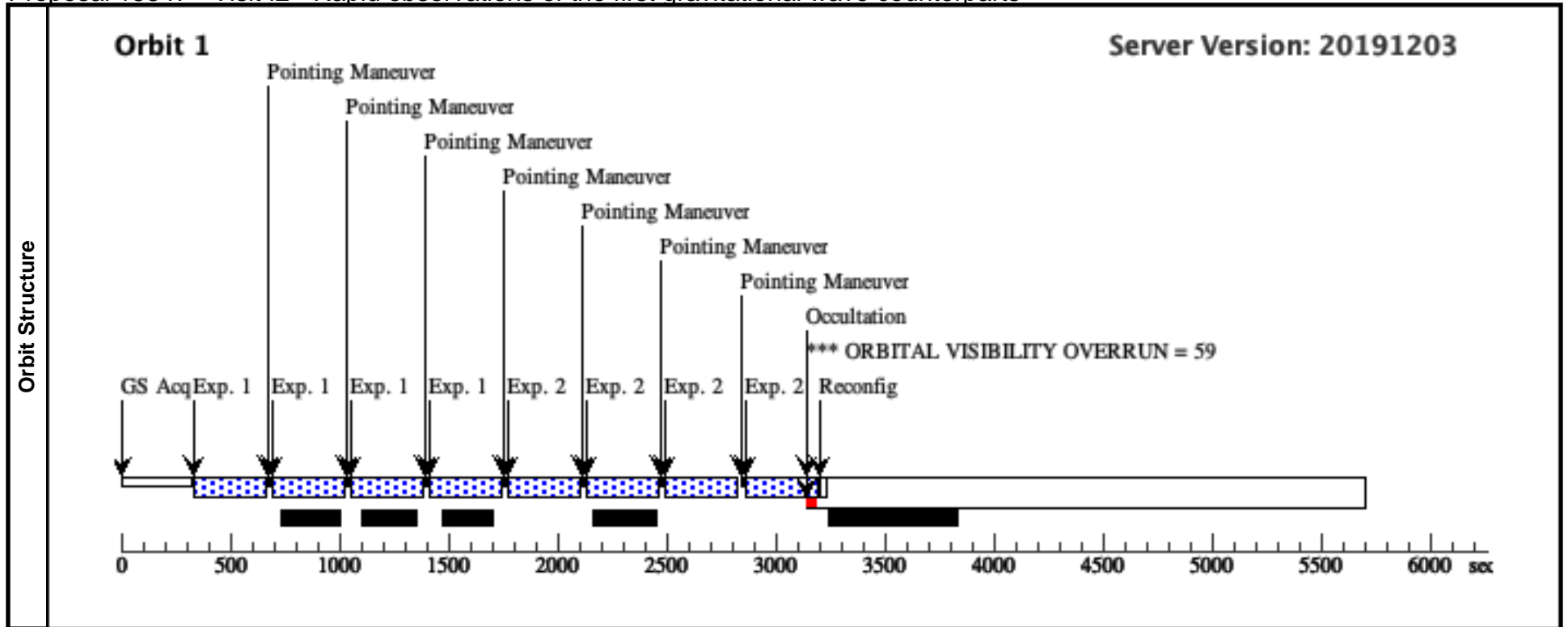
Visit	Proposal 15347, Visit II, withdrawn Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ON HOLD Comments: F125W/F160W 1 orbit On Hold Comments: Awaiting SGRB trigger									
	Diagnosics (Visit I1) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Patterns	#	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), (2)		
Generic Targets	#	Name	Criteria	Description						
	(1)	GW1	candidate GW counterpart							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) GW1	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=STEP100; NSAMP=9			Pattern 1, Exps 1-1 in Visit II (1)	299.231323 Secs (1196.925 Secs)	
									[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]
	2	(1) GW1	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP100; NSAMP=9			Pattern 1, Exps 2-2 in Visit II (1)	299.231323 Secs (1196.925 Secs)	
								[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]	



Proposal 15347 - Visit I2 - Rapid observations of the first gravitational wave counterparts

Mon Mar 16 14:00:44 GMT 2020

Visit	Proposal 15347, Visit I2, withdrawn Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ON HOLD Comments: F125W/F160W 1 orbit On Hold Comments: Awaiting SGRB trigger									
	Diagnosics (Visit I2) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
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), (2)		
Generic Targets	#	Name	Criteria	Description						
	(1)	GW1	candidate GW counterpart							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) GW1	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=STEP100; NSAMP=9			Pattern 1, Exps 1-1 in Visit I2 (1)	299.231323 Secs (1196.925 Secs)	
									[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]
	2	(1) GW1	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP100; NSAMP=9			Pattern 1, Exps 2-2 in Visit I2 (1)	299.231323 Secs (1196.925 Secs)	
								[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]	



Proposal 15347 - Visit I6 - Rapid observations of the first gravitational wave counterparts

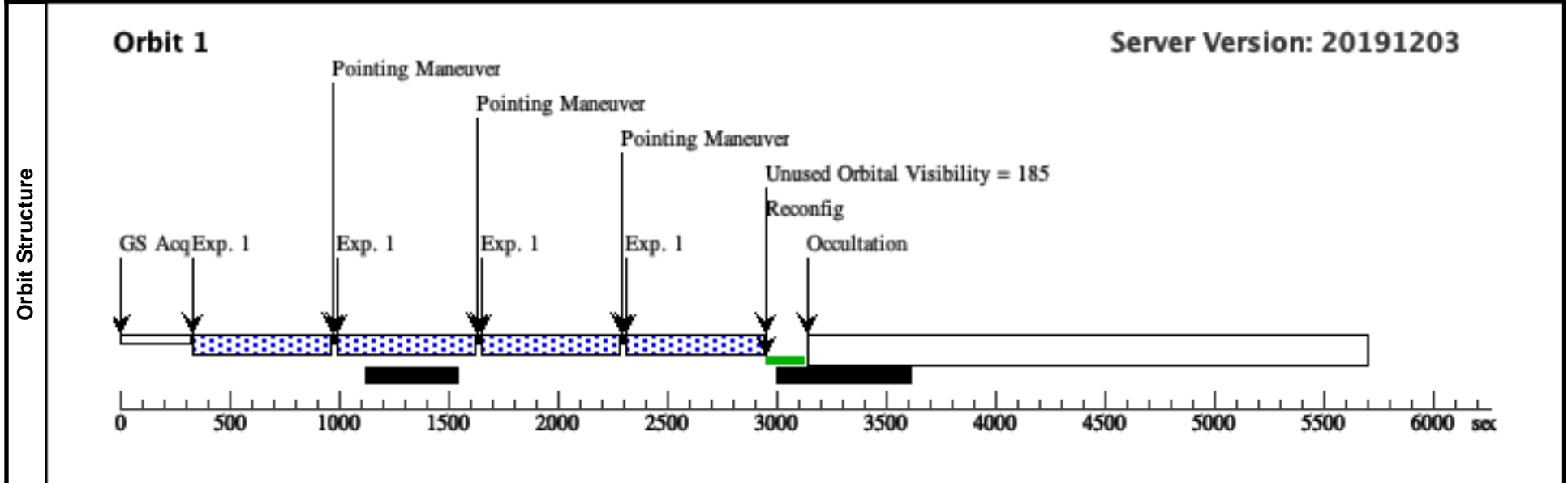
Mon Mar 16 14:00:44 GMT 2020

Visit	Proposal 15347, Visit I6, withdrawn		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: ON HOLD		
	Comments: F160W 1 orbit		
On Hold Comments: Awaiting SGRB trigger			

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

Generic Targets	#	Name	Criteria	Description
	(1)	GW1	candidate GW counterpart	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) GW1	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP100; NSAMP=12		Pattern 1, Exps 1-1 in Visit I6 (1)	599.232292 Secs (2396.929 Secs)	[1]
									[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	



Proposal 15347 - Visit I7 - Rapid observations of the first gravitational wave counterparts

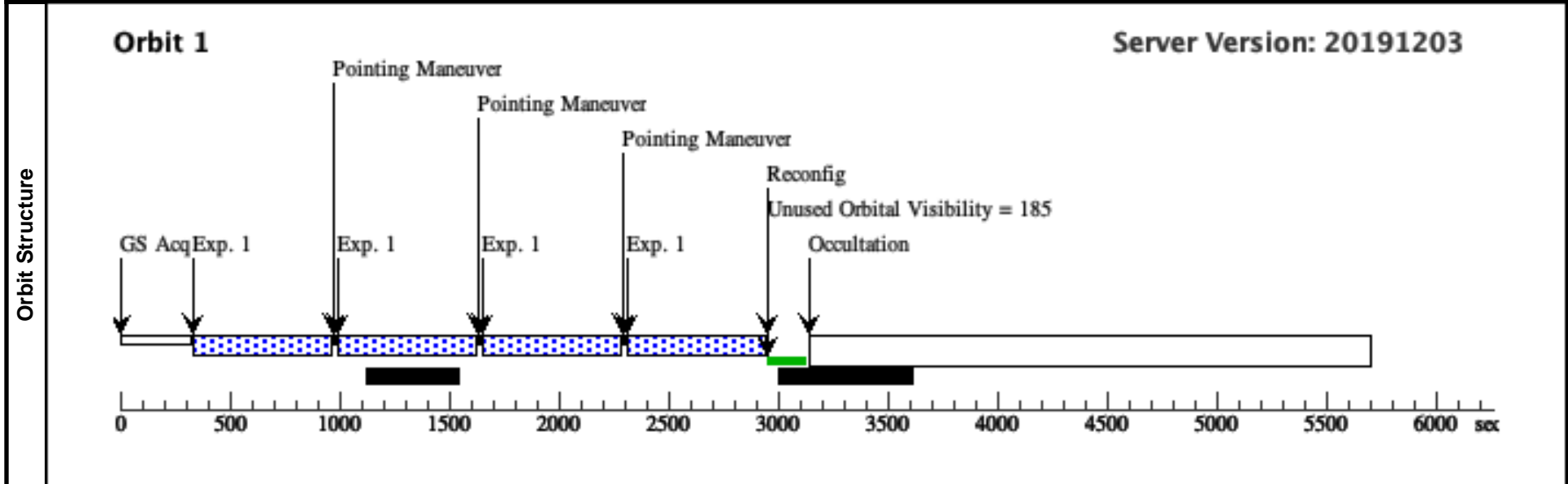
Mon Mar 16 14:00:44 GMT 2020

Visit	Proposal 15347, Visit I7, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD Comments: F125W 1 orbit On Hold Comments: Awaiting SGRB trigger		

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

Generic Targets	#	Name	Criteria	Description
	(1)	GW1	candidate GW counterpart	

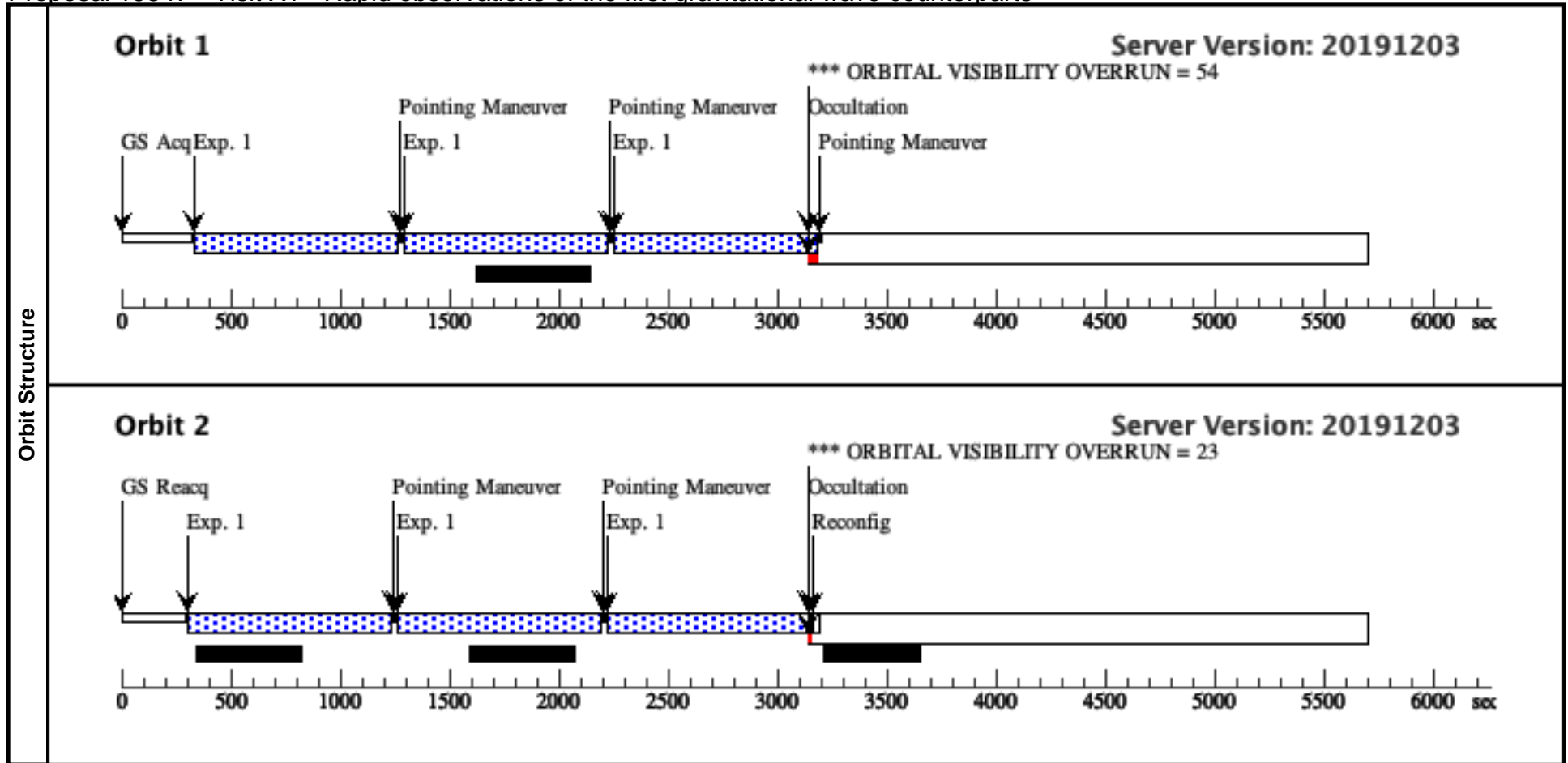
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) GW1	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=STEP100; NSAMP=12		Pattern 1, Exps 1-1 in Visit I7 (1)	599.232292 Secs (2396.929 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 15347 - Visit X1 - Rapid observations of the first gravitational wave counterparts

Mon Mar 16 14:00:44 GMT 2020

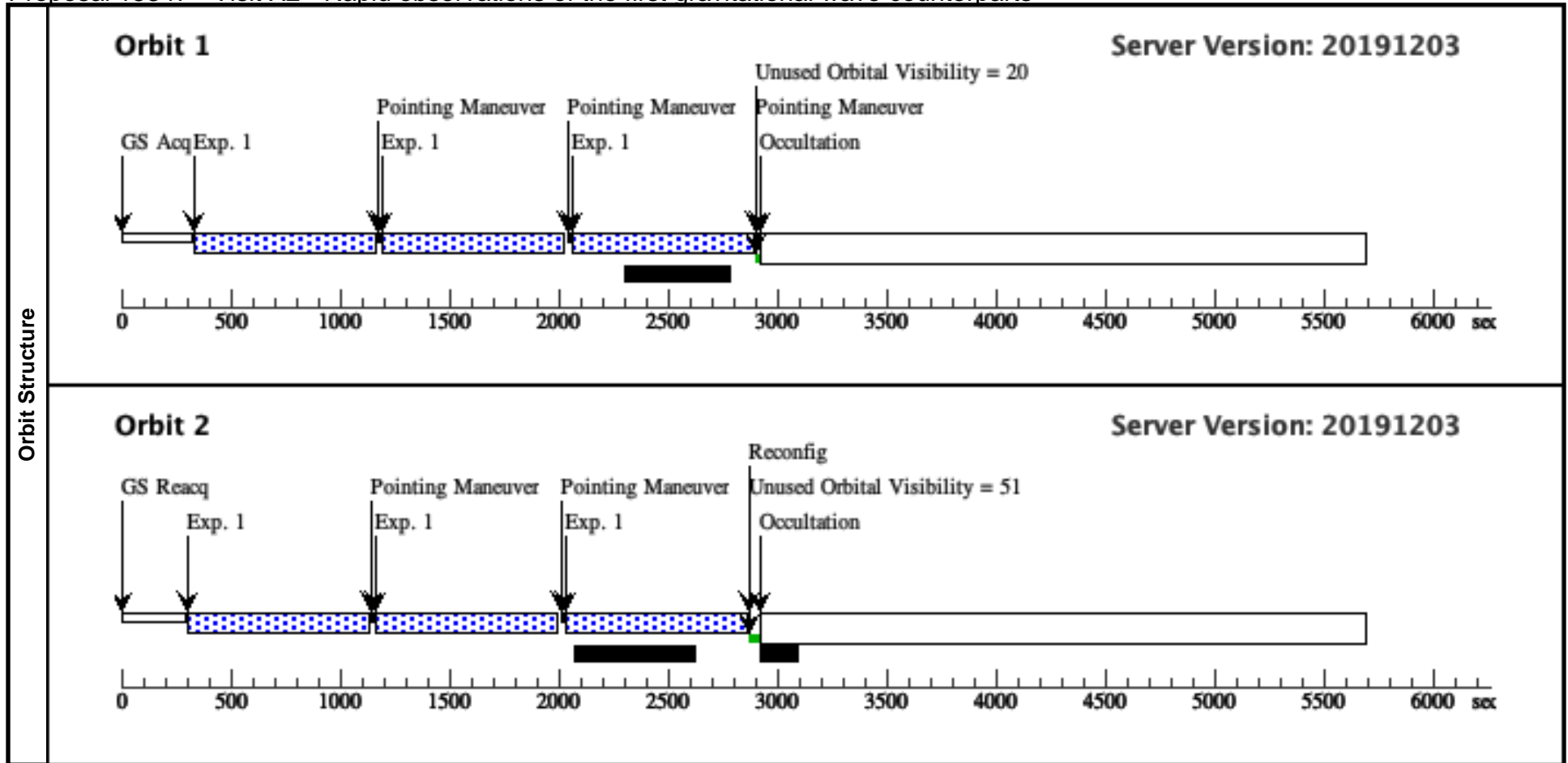
Visit	Proposal 15347, Visit X1, withdrawn Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ON HOLD <i>On Hold Comments: Awaiting SGRB trigger</i>									
	(Visit X1) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit X1) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(2)	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.474 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 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	(1)				
Generic Targets	#	Name	Criteria	Description						
	(1)	GW1	candidate GW counterpart							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) GW1	WFC3/IR, MULTIACCUM, IR	F140W	SAMP-SEQ=STEP1 00; NSAMP=15		Pattern 2, Exps 1-1 i n Visit X1 (2)	899.233261 Secs (5395.4 Secs) [=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 1,3)] [=>(Pattern 2,1)] [=>(Pattern 2,2)] [=>(Pattern 2,3)]	[1] [2]



Proposal 15347 - Visit X2 - Rapid observations of the first gravitational wave counterparts

Mon Mar 16 14:00:44 GMT 2020

Visit	Proposal 15347, Visit X2, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; BEFORE 08-JUN-2020:00:00:00									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(2)	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.474 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 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	(1)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	AT2019OSY	RA: 00 55 47.0000 (13.9458333d) Dec: -27 04 33.00 (-27.07583d) Equinox: J2000		V=25	Reference Frame: ICRS				
	<i>Comments:</i> Category=UNIDENTIFIED Description=[RADIO EMITTER]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) AT2019OSY	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=9; SAMP-SEQ=SPAR S100		Pattern 2, Exps 1-1 i n Visit X2 (2)	802.934875 Secs (4817.609 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 1,3)]	[1]
								[==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 2,3)]	[2]	



Proposal 15347 - Visit X3 - Rapid observations of the first gravitational wave counterparts

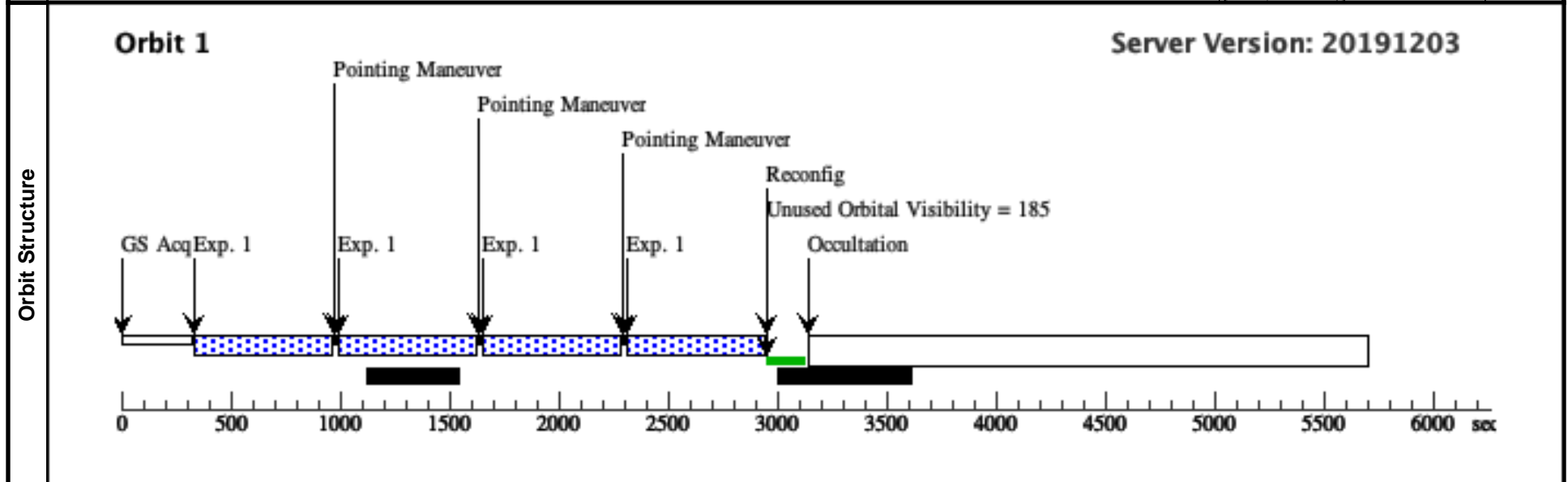
Mon Mar 16 14:00:44 GMT 2020

Visit	Proposal 15347, Visit X3, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD <i>On Hold Comments: Awaiting SGRB 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)	GW1	candidate GW counterpart	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) GW1	WFC3/IR, MULTIACCUM, IR	F140W	SAMP-SEQ=STEP100; NSAMP=12		Pattern 1, Exps 1-1 in Visit X3 (1)	599.232292 Secs (2396.929 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 15347 - Visit X4 - Rapid observations of the first gravitational wave counterparts

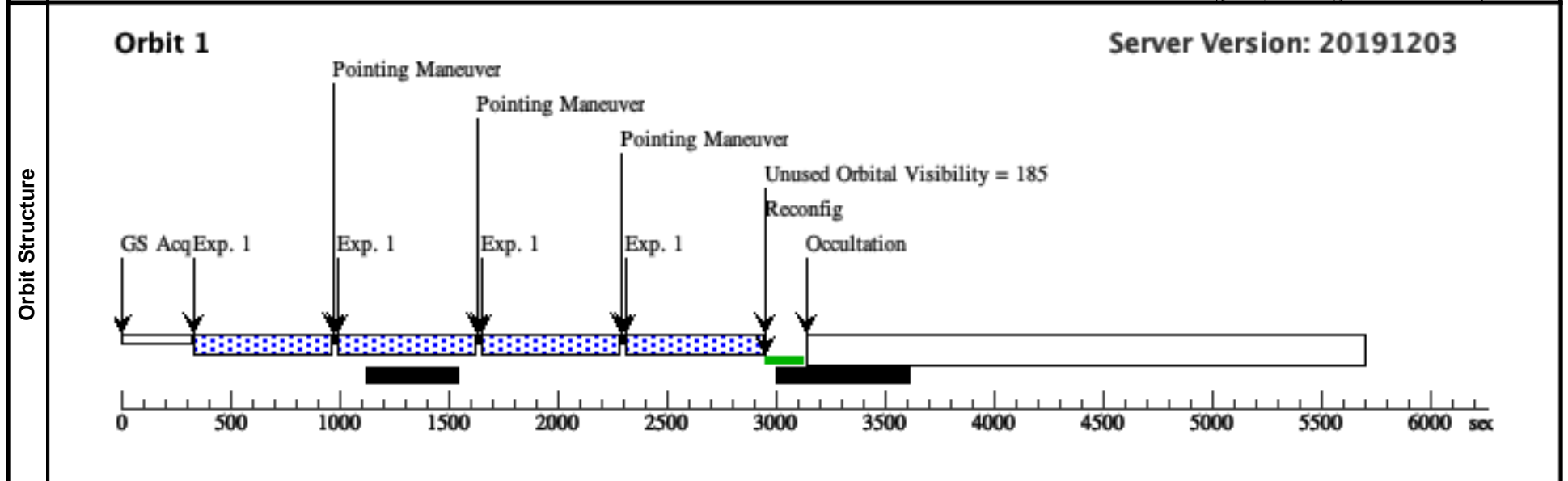
Mon Mar 16 14:00:44 GMT 2020

Visit	Proposal 15347, Visit X4, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD <i>On Hold Comments: Awaiting SGRB 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)	GW1	candidate GW counterpart	

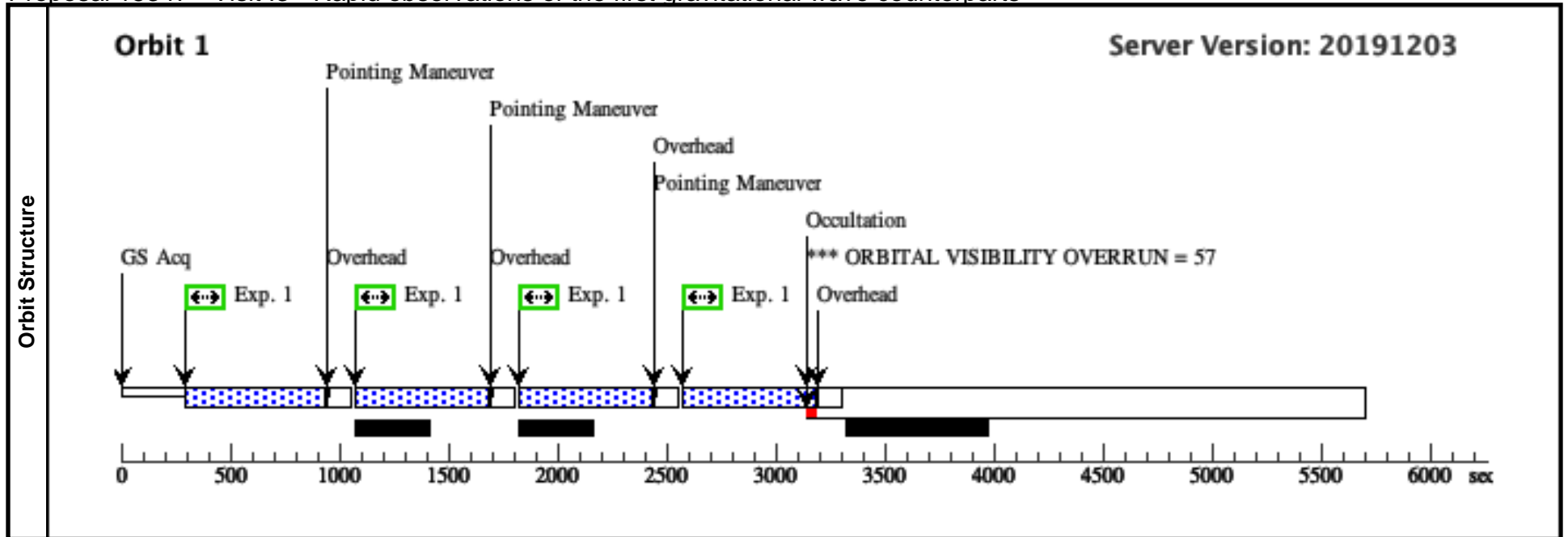
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) GW1	WFC3/IR, MULTIACCUM, IR	F140W	SAMP-SEQ=STEP100; NSAMP=12		Pattern 1, Exps 1-1 in Visit X4 (1)	599.232292 Secs (2396.929 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 15347 - Visit I3 - Rapid observations of the first gravitational wave counterparts

Mon Mar 16 14:00:44 GMT 2020

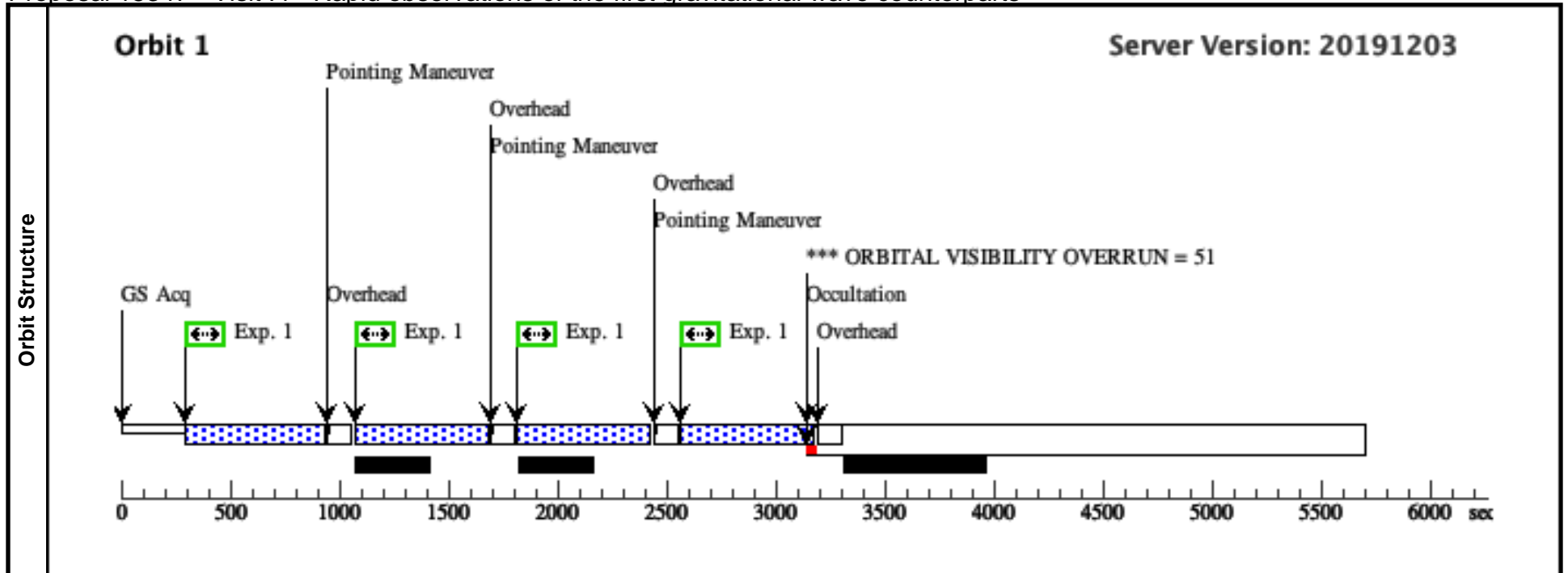
Visit	Proposal 15347, Visit I3, withdrawn Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ON HOLD <i>On Hold Comments: Awaiting Dark GRB position from Chandra</i>									
	(Visit I3) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
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			(1)		
Generic Targets	#	Name	Criteria	Description						
	(1)	GW1	candidate GW counterpart							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) GW1	WFC3/UVIS, ACCUM, UVIS	F336W	CR-SPLIT=NO; FLASH=11			Pattern 3, Exps 1-1 in Visit I3 (3)	370 Secs (2453 Secs) [=>608.0 Secs (Pattern 1)] [=>615.0 Secs (Pattern 2)] [=>615.0 Secs (Pattern 3)] [=>615.0 Secs (Pattern 4)]	[1]



Proposal 15347 - Visit I4 - Rapid observations of the first gravitational wave counterparts

Mon Mar 16 14:00:44 GMT 2020

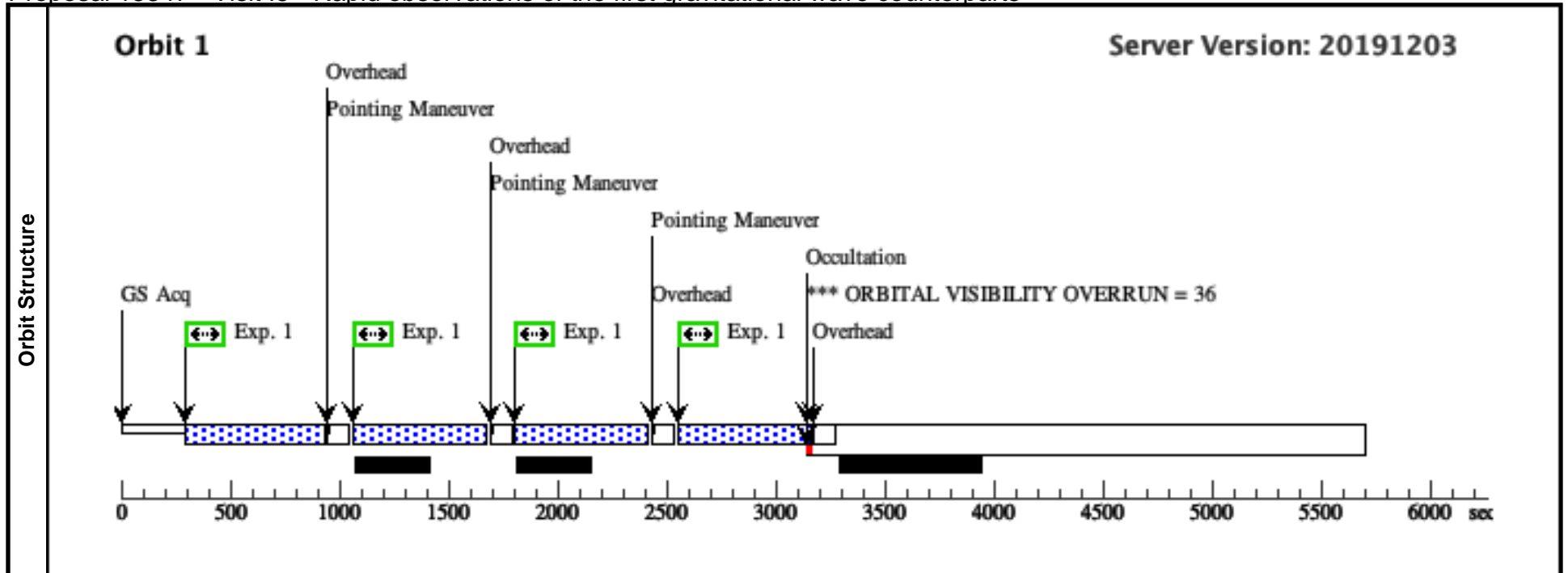
Visit	Proposal 15347, Visit I4, withdrawn Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ON HOLD <i>On Hold Comments: Awaiting Dark GRB position from Chandra</i>									
	(Visit I4) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
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			(1)		
Generic Targets	#	Name	Criteria	Description						
	(1)	GW1	candidate GW counterpart							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) GW1	WFC3/UVIS, ACCUM, UVIS	F390W	CR-SPLIT=NO; FLASH=7		Pattern 3, Exps 1-1 in Visit I4 (3)	370 Secs (2453 Secs) [=>608.0 Secs (Pattern 1)] [=>615.0 Secs (Pattern 2)] [=>615.0 Secs (Pattern 3)] [=>615.0 Secs (Pattern 4)]	[1]



Proposal 15347 - Visit I5 - Rapid observations of the first gravitational wave counterparts

Mon Mar 16 14:00:44 GMT 2020

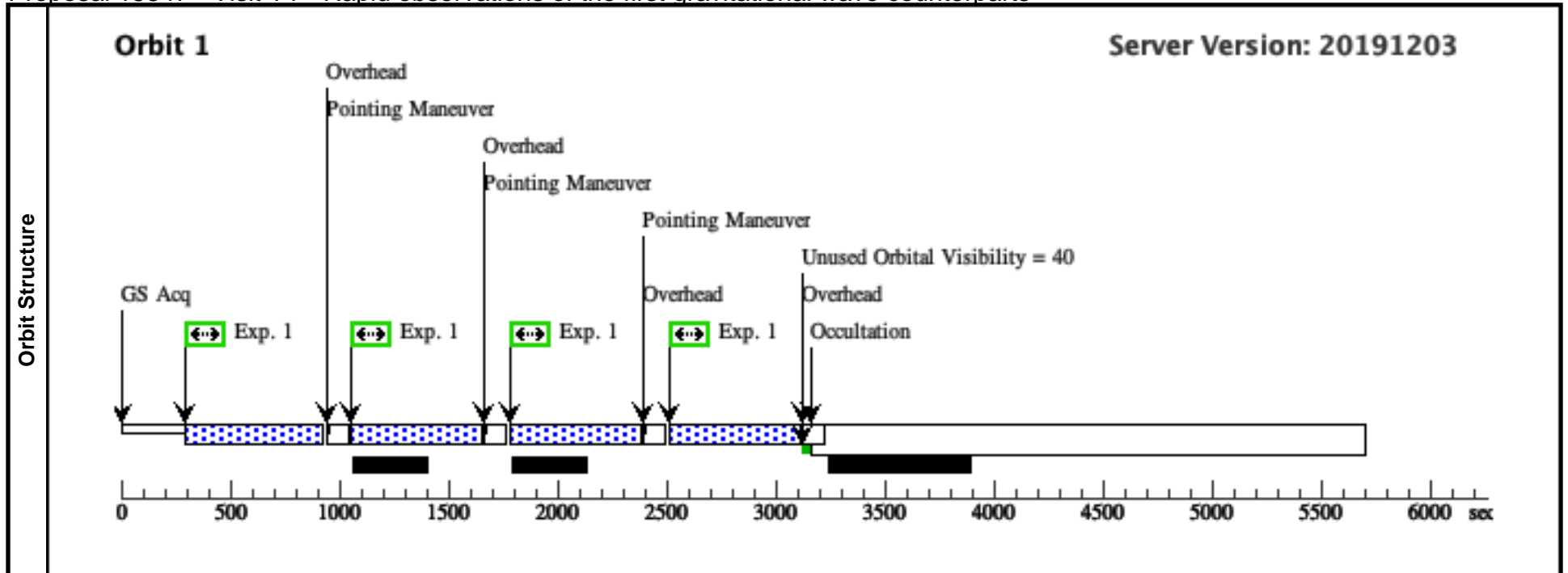
Visit	Proposal 15347, Visit I5, withdrawn Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ON HOLD <i>On Hold Comments: Awaiting Dark GRB position from Chandra</i>									
	(Visit I5) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
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			(1)		
Generic Targets	#	Name	Criteria	Description						
	(1)	GW1	candidate GW counterpart							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) GW1	WFC3/UVIS, ACCUM, UVIS	F606W	CR-SPLIT=NO		Pattern 3, Exps 1-1 in Visit I5 (3)	370 Secs (2453 Secs) [=>608.0 Secs (Pattern 1)] [=>615.0 Secs (Pattern 2)] [=>615.0 Secs (Pattern 3)] [=>615.0 Secs (Pattern 4)]	[1]



Proposal 15347 - Visit Y1 - Rapid observations of the first gravitational wave counterparts

Mon Mar 16 14:00:44 GMT 2020

Visit	Proposal 15347, Visit Y1, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 29-SEP-2019:00:00:00; ON HOLD <i>On Hold Comments: Awaiting Dark GRB position from Chandra</i>										
	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			(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(2)	AT2019OSY	RA: 00 55 47.0000 (13.9458333d) Dec: -27 04 33.00 (-27.07583d) Equinox: J2000				V=25	Reference Frame: ICRS			
<i>Comments: Category=UNIDENTIFIED Description=[RADIO EMITTER]</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(2) AT2019OSY	WFC3/UVIS, ACCUM, UVIS	F606W	CR-SPLIT=NO	POS TARG 52.7577 7440085914,58.3582 8767133696	Pattern 3, Exps 1-1 i n Visit Y1 (3)	600 Secs (2400 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]		[1]



Proposal 15347 - Visit Y2 - Rapid observations of the first gravitational wave counterparts

Mon Mar 16 14:00:44 GMT 2020

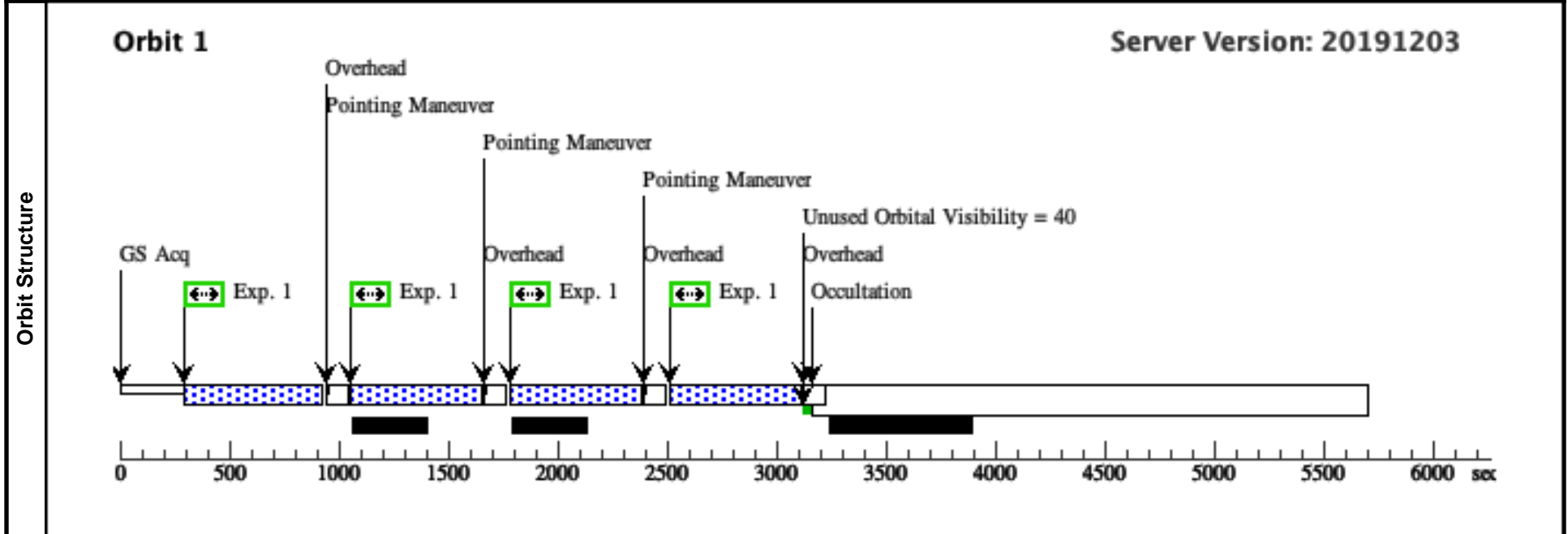
Visit	Proposal 15347, Visit Y2, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 29-SEP-2019:00:00:00; ON HOLD <i>On Hold Comments: Awaiting Dark GRB position from Chandra</i>		

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	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	AT2019OSY	RA: 00 55 47.0000 (13.9458333d) Dec: -27 04 33.00 (-27.07583d) Equinox: J2000		V=25	Reference Frame: ICRS

Comments: Category=UNIDENTIFIED Description=[RADIO EMITTER]

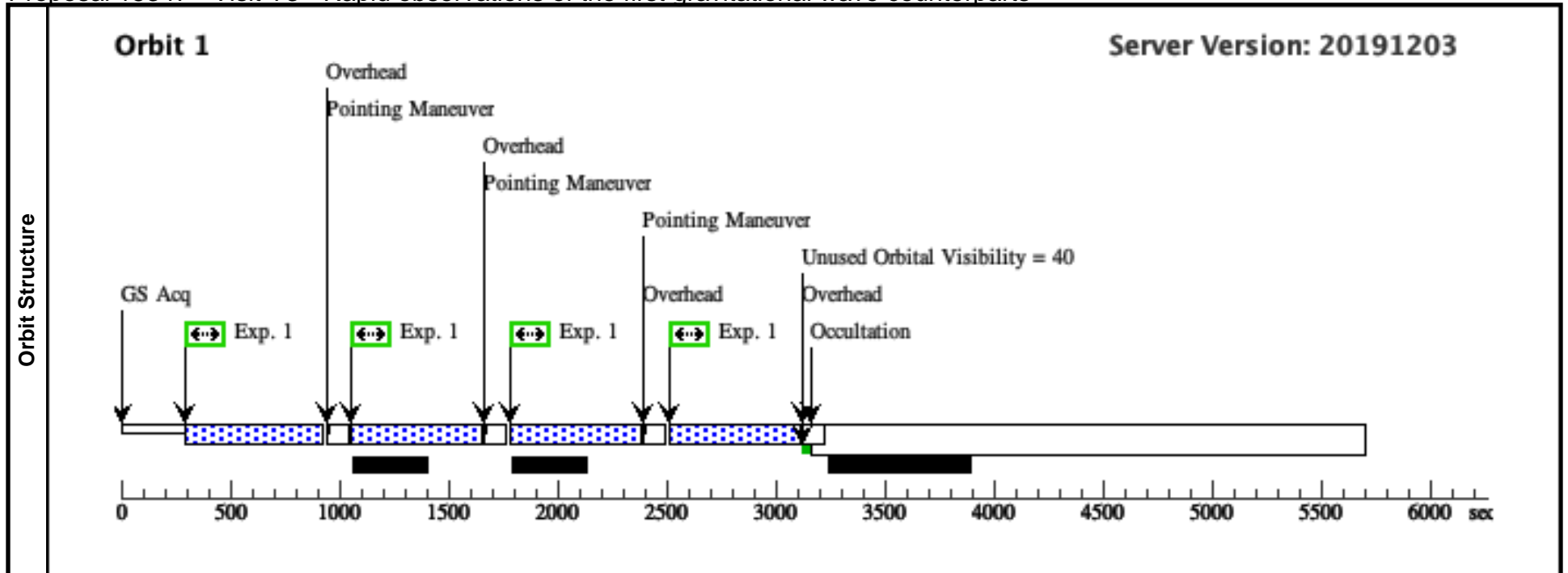
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) AT2019OSY	WFC3/UVIS, ACCUM, UVIS	F606W	CR-SPLIT=NO	POS TARG 49.5281 4394955559,-62.745 831491068266	Pattern 3, Exps 1-1 i n Visit Y2 (3)	600 Secs (2400 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 15347 - Visit Y3 - Rapid observations of the first gravitational wave counterparts

Mon Mar 16 14:00:44 GMT 2020

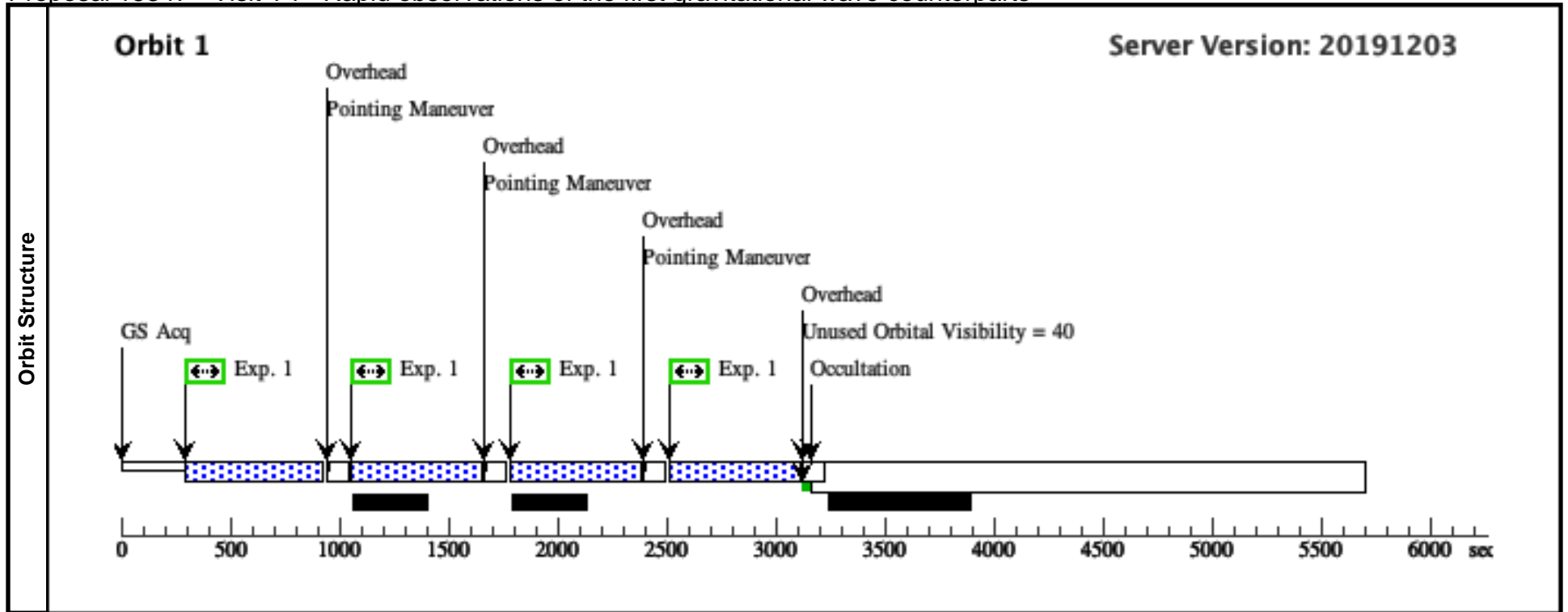
Visit	Proposal 15347, Visit Y3, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 29-SEP-2019:00:00:00; ON HOLD <i>On Hold Comments: Awaiting Dark GRB position from Chandra</i>										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
(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			(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(2)	AT2019OSY	RA: 00 55 47.0000 (13.9458333d) Dec: -27 04 33.00 (-27.07583d) Equinox: J2000				V=25	Reference Frame: ICRS			
<i>Comments:</i> Category=UNIDENTIFIED Description=[RADIO EMITTER]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(2) AT2019OSY	WFC3/UVIS, ACCUM, UVIS	F606W	CR-SPLIT=NO	POS TARG -55.487 524686879155,-72.3 80373815936	Pattern 3, Exps 1-1 i n Visit Y3 (3)	600 Secs (2400 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]		[1]



Proposal 15347 - Visit Y4 - Rapid observations of the first gravitational wave counterparts

Mon Mar 16 14:00:44 GMT 2020

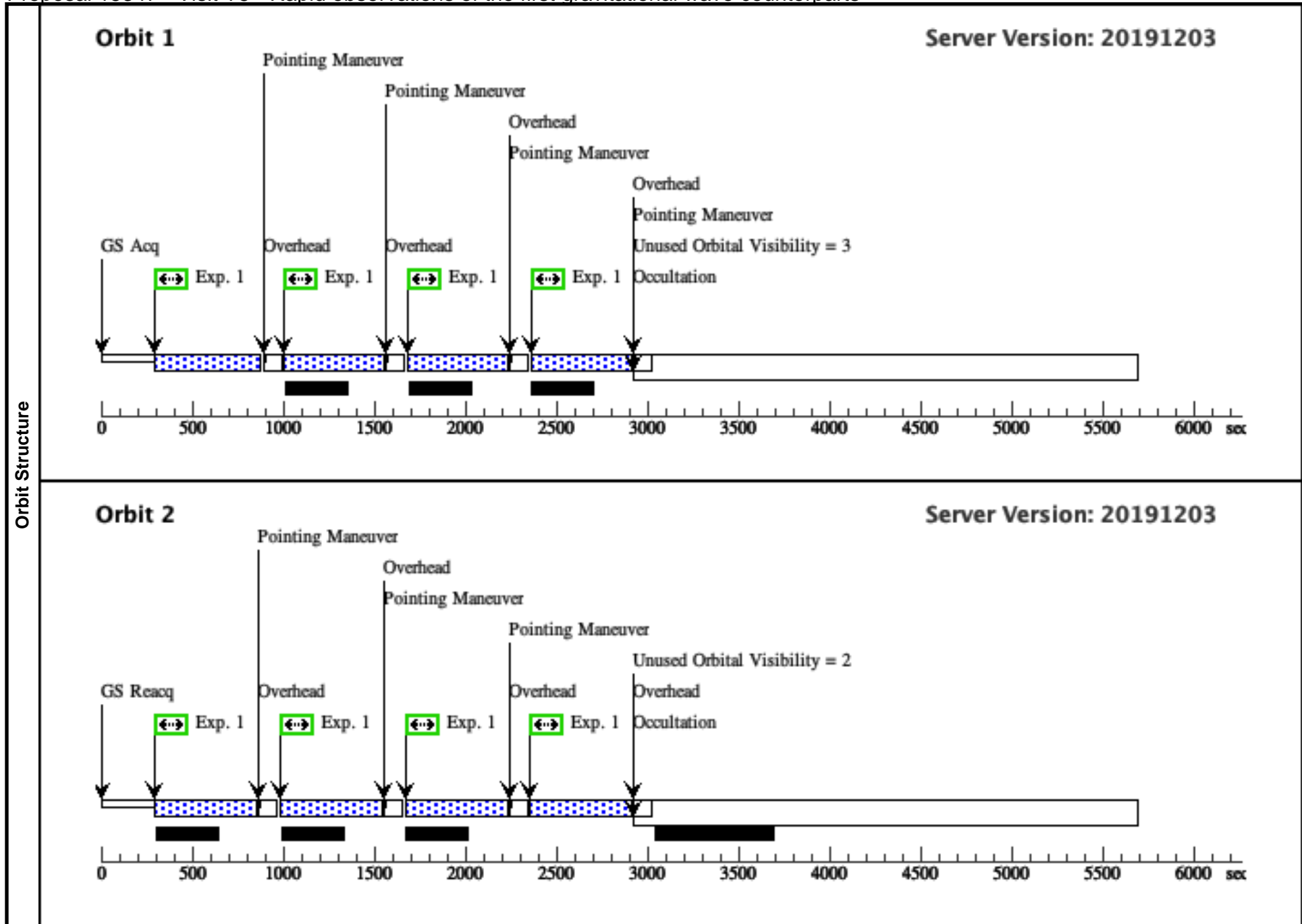
Visit	Proposal 15347, Visit Y4, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 29-SEP-2019:00:00:00; ON HOLD <i>On Hold Comments: Awaiting Dark GRB position from Chandra</i>										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
(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			(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(2)	AT2019OSY	RA: 00 55 47.0000 (13.9458333d) Dec: -27 04 33.00 (-27.07583d) Equinox: J2000				V=25	Reference Frame: ICRS			
<i>Comments: Category=UNIDENTIFIED Description=[RADIO EMITTER]</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(2) AT2019OSY	WFC3/UVIS, ACCUM, UVIS	F606W	CR-SPLIT=NO	POS TARG -56.162 78128108363,52.747 410169263844	Pattern 3, Exps 1-1 i n Visit Y4 (3)	600 Secs (2400 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]		[1]



Proposal 15347 - Visit Y5 - Rapid observations of the first gravitational wave counterparts

Mon Mar 16 14:00:44 GMT 2020

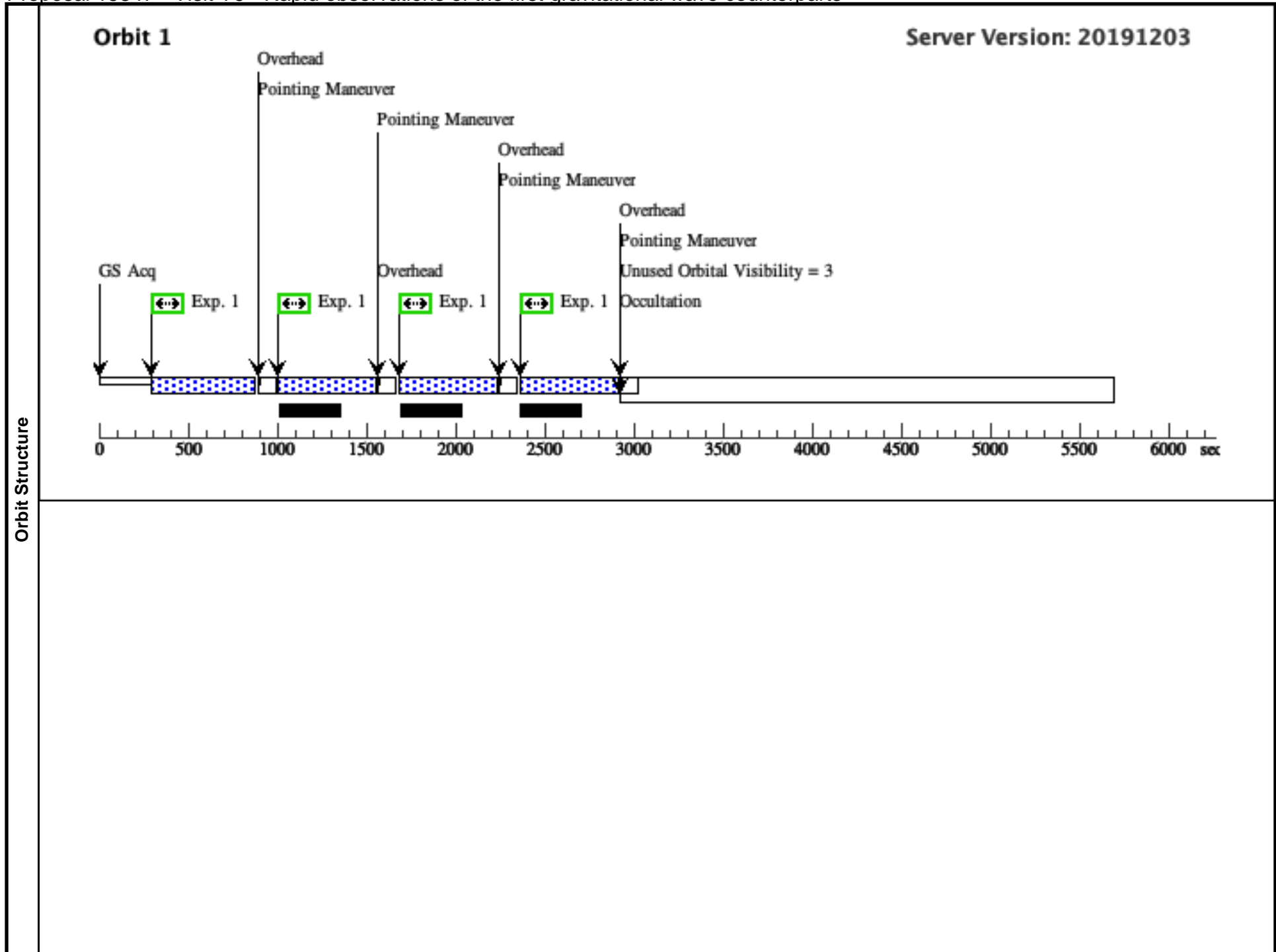
Visit	Proposal 15347, Visit Y5, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 100%; BEFORE 08-JUN-2020:00:00:00; ON HOLD <i>On Hold Comments: Awaiting Dark GRB position from Chandra</i>									
	Patterns	#	Primary Pattern				Secondary Pattern			
		(5)	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				
	(2)	AT2019OSY	RA: 00 55 47.0000 (13.9458333d) Dec: -27 04 33.00 (-27.07583d) Equinox: J2000		V=25	Reference Frame: ICRS				
	<i>Comments: Category=UNIDENTIFIED Description=[RADIO EMITTER]</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) AT2019OSY	WFC3/UVIS, ACCUM, UVIS	F606W	CR-SPLIT=NO	POS TARG -56.162 78128108363,52.747 410169263844	Pattern 5, Exps 1-1 i n Visit Y5 (5)	600 Secs (4432 Secs) [=>550.0 Secs (Pattern 1,1)] [=>550.0 Secs (Pattern 1,2)] [=>550.0 Secs (Pattern 1,3)] [=>550.0 Secs (Pattern 1,4)] [=>558.0 Secs (Pattern 2,1)] [=>558.0 Secs (Pattern 2,2)] [=>558.0 Secs (Pattern 2,3)] [=>558.0 Secs (Pattern 2,4)]	[1] [2]

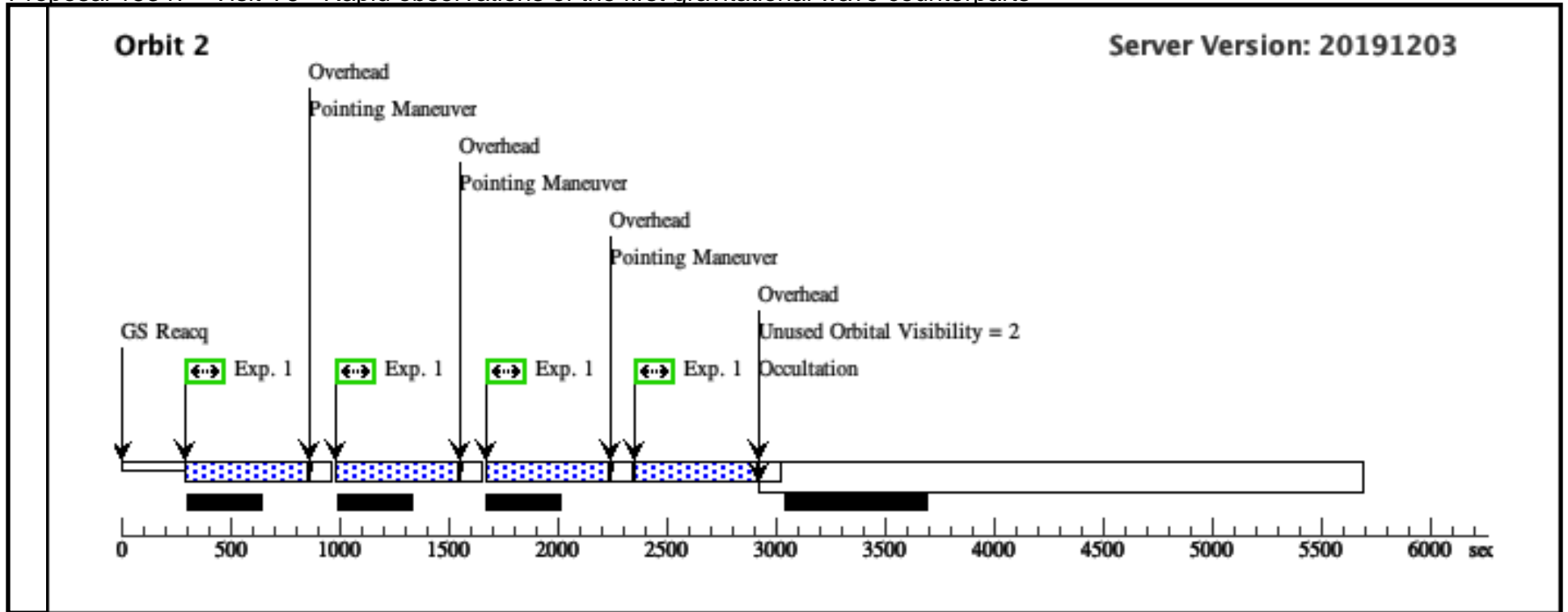


Proposal 15347 - Visit Y6 - Rapid observations of the first gravitational wave counterparts

Mon Mar 16 14:00:44 GMT 2020

Visit	Proposal 15347, Visit Y6, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 100%; BEFORE 08-JUN-2020:00:00:00; ON HOLD <i>On Hold Comments: Awaiting Dark GRB position from Chandra</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(5)	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				
	(2)	AT2019OSY	RA: 00 55 47.0000 (13.9458333d) Dec: -27 04 33.00 (-27.07583d) Equinox: J2000		V=25	Reference Frame: ICRS				
	<i>Comments: Category=UNIDENTIFIED Description=[RADIO EMITTER]</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) AT2019OSY	WFC3/UVIS, ACCUM, UVIS	F606W	CR-SPLIT=NO	POS TARG -55.487 524686879155,-72.3 80373815936; GS ACQ SCENARI O BASE1B3	Pattern 5, Exps 1-1 i n Visit Y6 (5)	600 Secs (4432 Secs) [=>550.0 Secs (Pattern 1,1)] [=>550.0 Secs (Pattern 1,2)] [=>550.0 Secs (Pattern 1,3)] [=>550.0 Secs (Pattern 1,4)] [=>558.0 Secs (Pattern 2,1)] [=>558.0 Secs (Pattern 2,2)] [=>558.0 Secs (Pattern 2,3)] [=>558.0 Secs (Pattern 2,4)]	[1] [2]

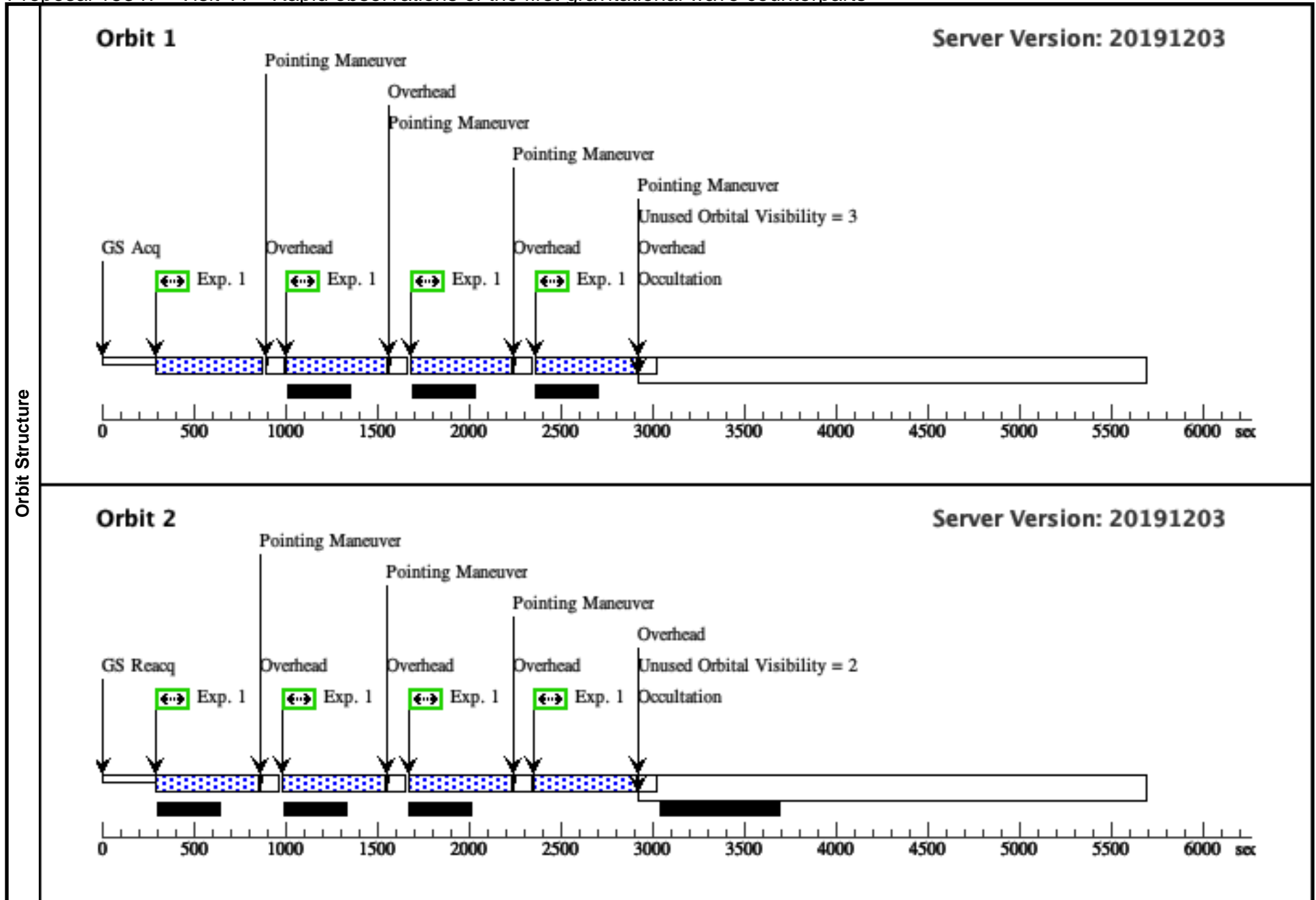




Proposal 15347 - Visit Y7 - Rapid observations of the first gravitational wave counterparts

Mon Mar 16 14:00:45 GMT 2020

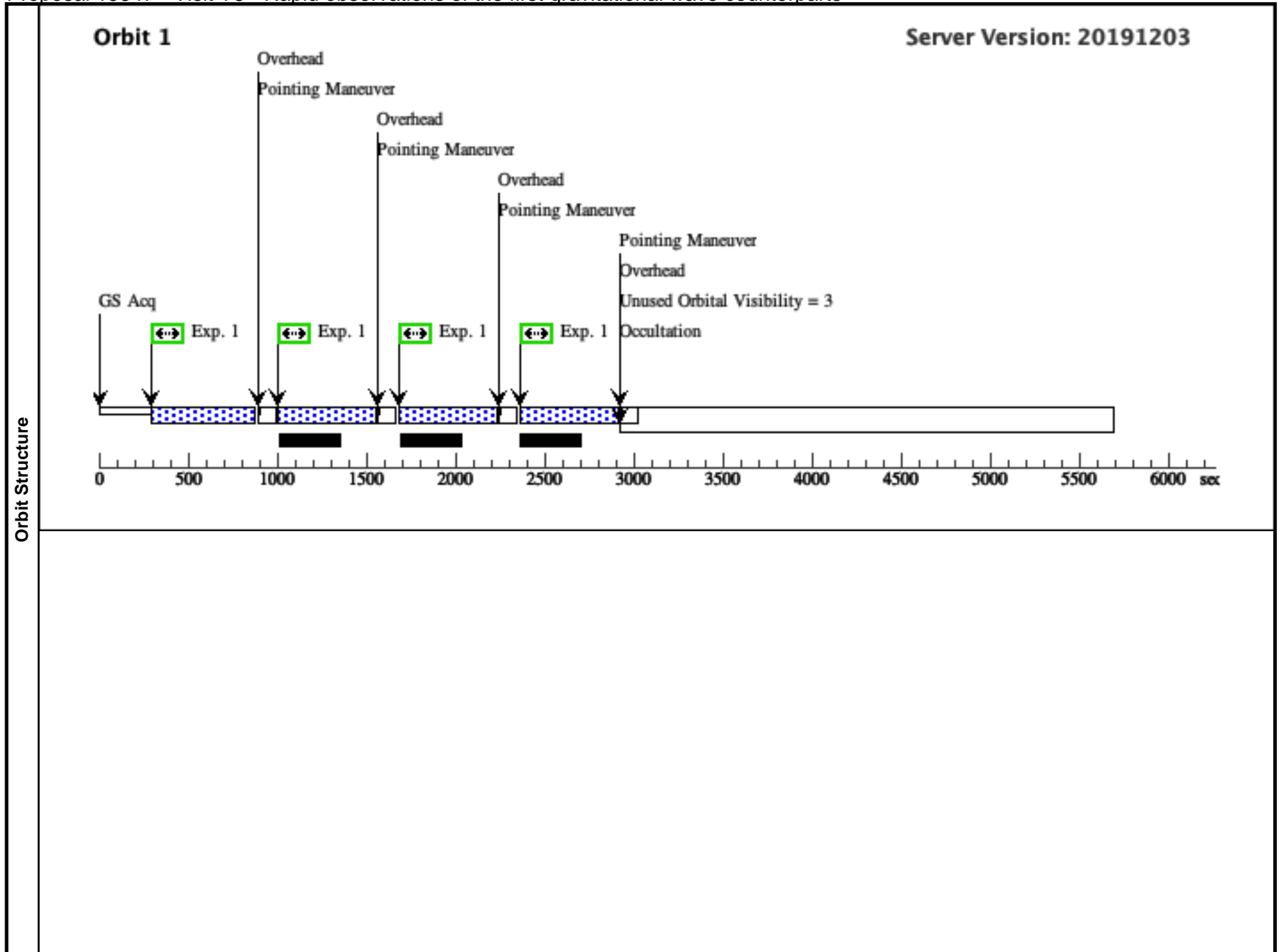
Visit	Proposal 15347, Visit Y7, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 100%; BEFORE 08-JUN-2020:00:00:00; ON HOLD <i>On Hold Comments: Awaiting Dark GRB position from Chandra</i>									
	Patterns	#	Primary Pattern				Secondary Pattern			
		(5)	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				
	(2)	AT2019OSY	RA: 00 55 47.0000 (13.9458333d) Dec: -27 04 33.00 (-27.07583d) Equinox: J2000		V=25	Reference Frame: ICRS				
	<i>Comments: Category=UNIDENTIFIED Description=[RADIO EMITTER]</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) AT2019OSY	WFC3/UVIS, ACCUM, UVIS	F606W	CR-SPLIT=NO	POS TARG 49.5281 4394955559,-62.745 831491068266; GS ACQ SCENARI O BASE1B3	Pattern 5, Exps 1-1 i n Visit Y7 (5)	600 Secs (4432 Secs) [=>550.0 Secs (Pattern 1,1)] [=>550.0 Secs (Pattern 1,2)] [=>550.0 Secs (Pattern 1,3)] [=>550.0 Secs (Pattern 1,4)] [=>558.0 Secs (Pattern 2,1)] [=>558.0 Secs (Pattern 2,2)] [=>558.0 Secs (Pattern 2,3)] [=>558.0 Secs (Pattern 2,4)]	[1] [2]

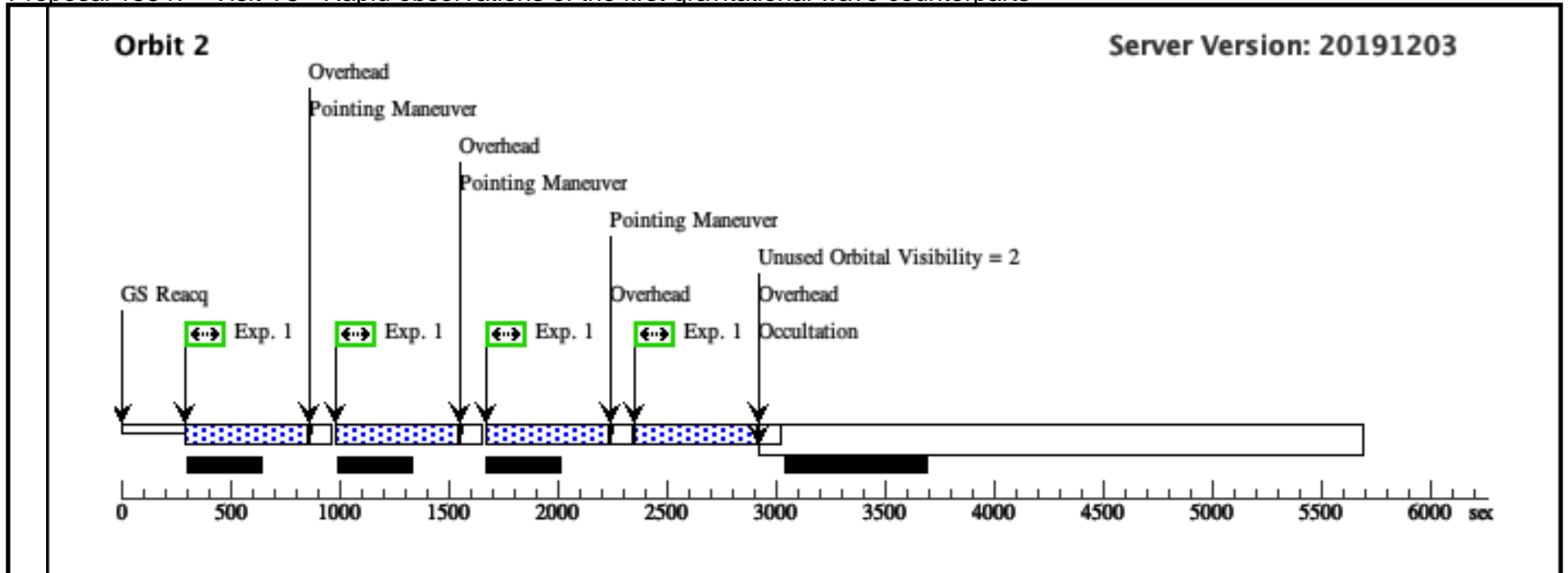


Proposal 15347 - Visit Y8 - Rapid observations of the first gravitational wave counterparts

Mon Mar 16 14:00:45 GMT 2020

Visit	Proposal 15347, Visit Y8, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 100%; BEFORE 08-JUN-2020:00:00:00; ON HOLD <i>On Hold Comments: Awaiting Dark GRB position from Chandra</i>									
	Patterns	#	Primary Pattern				Secondary Pattern			
		(5)	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		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	AT2019OSY	RA: 00 55 47.0000 (13.9458333d) Dec: -27 04 33.00 (-27.07583d) Equinox: J2000		V=25	Reference Frame: ICRS				
	<i>Comments: Category=UNIDENTIFIED Description=[RADIO EMITTER]</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) AT2019OSY	WFC3/UVIS, ACCUM, UVIS	F606W	CR-SPLIT=NO	POS TARG 52.7577 7440085914,58.3582 8767133696	Pattern 5, Exps 1-1 i n Visit Y8 (5)	600 Secs (4432 Secs) [=>550.0 Secs (Pattern 1,1)] [=>550.0 Secs (Pattern 1,2)] [=>550.0 Secs (Pattern 1,3)] [=>550.0 Secs (Pattern 1,4)]	[1]
								[=>558.0 Secs (Pattern 2,1)] [=>558.0 Secs (Pattern 2,2)] [=>558.0 Secs (Pattern 2,3)] [=>558.0 Secs (Pattern 2,4)]	[2]	

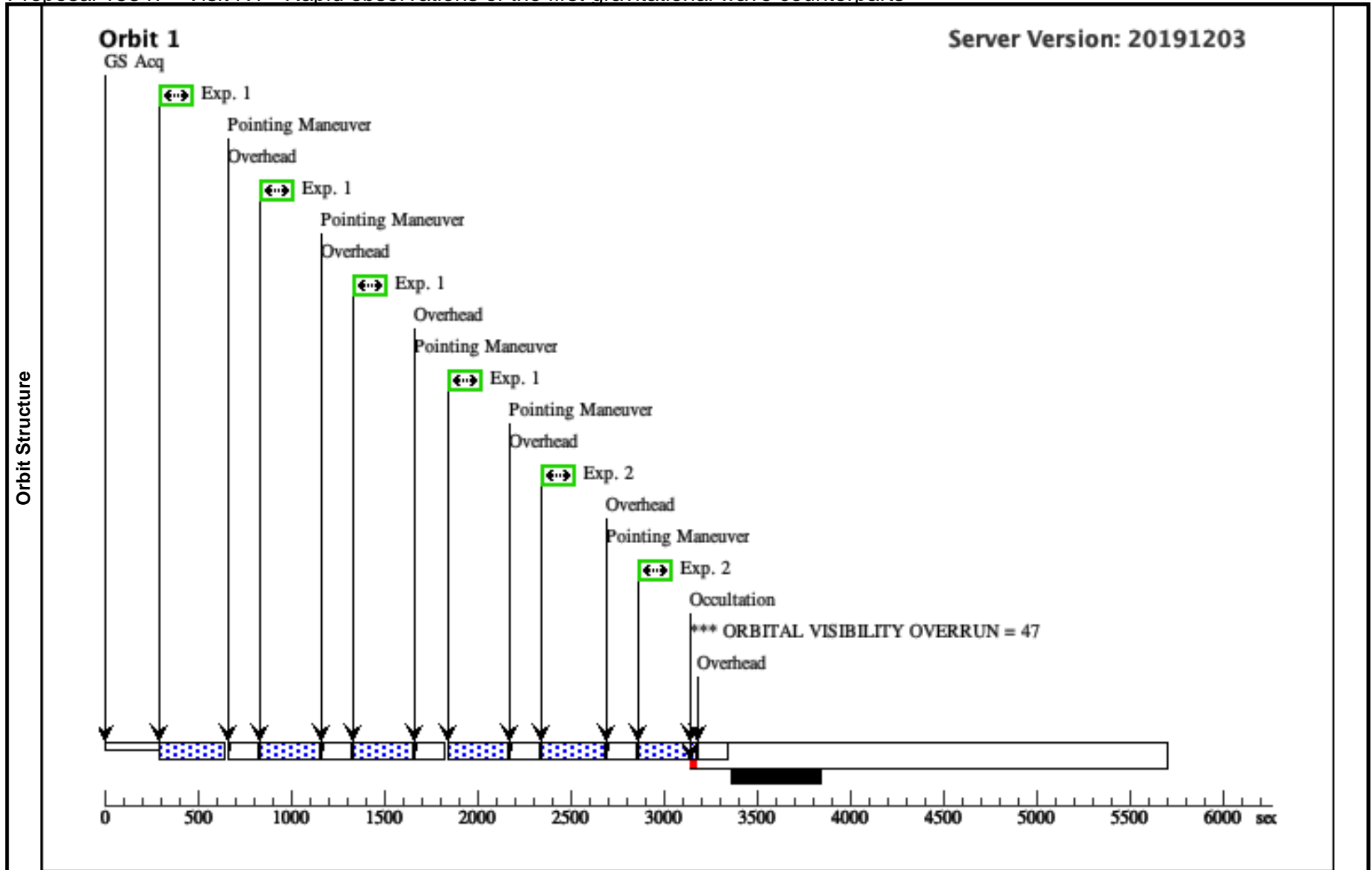




Proposal 15347 - Visit N1 - Rapid observations of the first gravitational wave counterparts

Mon Mar 16 14:00:45 GMT 2020

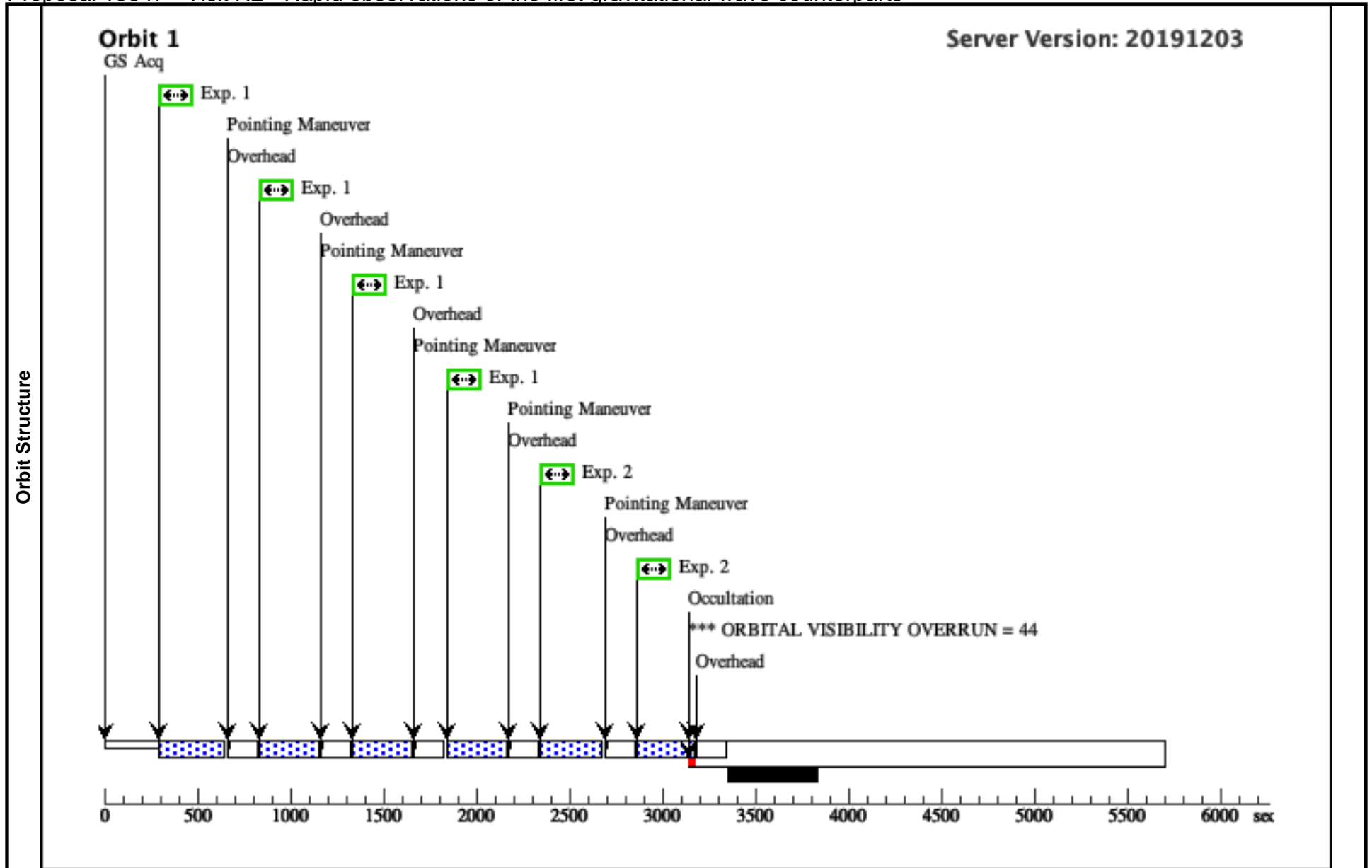
Visit	Proposal 15347, Visit N1, withdrawn Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ON HOLD <i>On Hold Comments: Awaiting Dark GRB position from Chandra</i>									
	Diagnosics (Visit N1) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Patterns	#	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					(1)		
(4)	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					(2)			
Generic Targets	#	Name	Criteria	Description						
	(1)	GW1	candidate GW counterpart							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) GW1	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F656N	CR-SPLIT=NO; FLASH=11		Pattern 3, Exps 1-1 in Visit N1 (3)	320 Secs (1280 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]	
2	(1) GW1	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M	CR-SPLIT=NO; FLASH=9		Pattern 4, Exps 2-2 in Visit N1 (4)	310 Secs (620 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]		



Proposal 15347 - Visit N2 - Rapid observations of the first gravitational wave counterparts

Mon Mar 16 14:00:45 GMT 2020

Visit	Proposal 15347, Visit N2, withdrawn Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ON HOLD <i>On Hold Comments: Awaiting Dark GRB position from Chandra</i>									
	Diagnosics (Visit N2) 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				(1)
(4)	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				(2)	
Generic Targets	#	Name	Criteria			Description				
	(1)	GW1	candidate GW counterpart							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) GW1	(1) GW1	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F657N	CR-SPLIT=NO; FLASH=11		Pattern 3, Exps 1-1 in Visit N2 (3)	320 Secs (1280 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]
2	(1) GW1	(1) GW1	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M	CR-SPLIT=NO; FLASH=9		Pattern 4, Exps 2-2 in Visit N2 (4)	310 Secs (620 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 15347 - Visit N3 - Rapid observations of the first gravitational wave counterparts

Mon Mar 16 14:00:45 GMT 2020

Visit	Proposal 15347, Visit N3, withdrawn Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ON HOLD <i>On Hold Comments: Awaiting Dark GRB position from Chandra</i>									
	Diagnosics (Visit N3) 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						(1)
(4)	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						(2)	
Generic Targets	#	Name	Criteria	Description						
	(1)	GW1		candidate GW counterpart						
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) GW1		WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F658N	CR-SPLIT=NO; FLASH=11		Pattern 3, Exps 1-1 in Visit N3 (3)	320 Secs (1280 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]
2	(1) GW1		WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M	CR-SPLIT=NO; FLASH=9		Pattern 4, Exps 2-2 in Visit N3 (4)	310 Secs (620 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	

