15292 - r-process kilonovae, short-duration GRBs, and EM counterparts to gravitational wave sources

Cycle: 25, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
G1	(1) SGRB1	WFC3/IR	1	20-Jul-2017 13:25:24.0	yes
G2	(1) SGRB1	WFC3/IR	1	20-Jul-2017 13:25:25.0	yes
G3	(1) SGRB1	WFC3/IR	2	20-Jul-2017 13:25:26.0	yes
G4	(1) SGRB1	WFC3/IR	2	20-Jul-2017 13:25:27.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
I1	(1) SGRB1	WFC3/IR	1	20-Jul-2017 13:25:29.0	yes
I2	(1) SGRB1	WFC3/IR	1	20-Jul-2017 13:25:30.0	yes
I3	(1) SGRB1	WFC3/IR	2	20-Jul-2017 13:25:31.0	yes
I4	(1) SGRB1	WFC3/IR	2	20-Jul-2017 13:25:32.0	yes
I5	(1) SGRB1	WFC3/IR	2	20-Jul-2017 13:25:32.0	yes
I6	(1) SGRB1	WFC3/IR	2	20-Jul-2017 13:25:33.0	yes
I7	(1) SGRB1	WFC3/IR	2	20-Jul-2017 13:25:34.0	yes
I8	(1) SGRB1	WFC3/IR	1	20-Jul-2017 13:25:35.0	yes
I9	(1) SGRB1	WFC3/IR	1	20-Jul-2017 13:25:36.0	yes
IA	(1) SGRB1	WFC3/IR	1	20-Jul-2017 13:25:36.0	yes
IB	(1) SGRB1	WFC3/IR	1	20-Jul-2017 13:25:37.0	yes
16	(1) SGRB1	WFC3/IR	1	20-Jul-2017 13:25:37.0	yes
O1	(1) SGRB1	WFC3/UVIS	1	20-Jul-2017 13:25:38.0	yes
O2	(1) SGRB1	WFC3/UVIS	1	20-Jul-2017 13:25:39.0	yes
O3	(1) SGRB1	WFC3/UVIS	1	20-Jul-2017 13:25:39.0	yes
O4	(1) SGRB1	WFC3/UVIS	1	20-Jul-2017 13:25:40.0	yes
H1	(1) SGRB1	WFC3/IR	1	20-Jul-2017 13:25:41.0	yes
H2	(1) SGRB1	WFC3/IR	1	20-Jul-2017 13:25:42.0	yes
H3	(1) SGRB1	WFC3/IR	2	20-Jul-2017 13:25:43.0	yes
H4	(1) SGRB1	WFC3/IR	2	20-Jul-2017 13:25:44.0	yes
J1	(1) SGRB1	WFC3/IR	1	20-Jul-2017 13:25:46.0	yes
26	(1) SGRB1	WFC3/IR	1	20-Jul-2017 13:25:47.0	yes
J3	(1) SGRB1	WFC3/IR	2	20-Jul-2017 13:25:48.0	yes
J4	(1) SGRB1	WFC3/IR	2	20-Jul-2017 13:25:48.0	yes
J5	(1) SGRB1	WFC3/IR	2	20-Jul-2017 13:25:49.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
J6	(1) SGRB1	WFC3/IR	2	20-Jul-2017 13:25:50.0	yes
J7	(1) SGRB1	WFC3/IR	2	20-Jul-2017 13:25:51.0	yes
J8	(1) SGRB1	WFC3/IR	1	20-Jul-2017 13:25:52.0	yes
J9	(1) SGRB1	WFC3/IR	1	20-Jul-2017 13:25:52.0	yes
JA	(1) SGRB1	WFC3/IR	1	20-Jul-2017 13:25:53.0	yes
JB	(1) SGRB1	WFC3/IR	1	20-Jul-2017 13:25:53.0	yes
JC	(1) SGRB1	WFC3/IR	1	20-Jul-2017 13:25:54.0	yes
P1	(1) SGRB1	WFC3/UVIS	1	20-Jul-2017 13:25:55.0	yes
P2	(1) SGRB1	WFC3/UVIS	1	20-Jul-2017 13:25:55.0	yes
P3	(1) SGRB1	WFC3/UVIS	1	20-Jul-2017 13:25:56.0	yes
P4	(1) SGRB1	WFC3/UVIS	1	20-Jul-2017 13:25:56.0	yes
C1	(1) SGRB1	WFC3/IR WFC3/UVIS	2	20-Jul-2017 13:25:57.0	yes
D1	(1) SGRB1	WFC3/IR WFC3/UVIS	2	20-Jul-2017 13:25:59.0	yes

58 Total Orbits Used

ABSTRACT

Our HST observations of the short-duration gamma-ray burst GRB130603B showed an infrared excess, about a week (rest-frame) after the burst, consistent with expectations from models of an emerging 'kilonova' (aka. 'macronova') driven by the radioactive decay of newly-synthesised r-process elements. This directly supports the compact object merger hypothesis for short-GRBs, in which the merger produces ultrarelativistic jets and ejected neutron star material powers a radioactive transient, with high opacity shifting the emission into the IR. If confirmed in future events, this discovery also provides evidence for a quasi-isotropic, electromagnetic signature of a prime target for gravitational wave (GW) detection by aLIGO/AdV, and suggests that kilonovae of this sort are likely sites of substantial (perhaps dominant) production of r-process elements in the universe. However, the ubiquity and diversity of these events is hardly constrained; their luminosity is expected to depend on the ejecta mass and velocity, and may be enhanced by ongoing energy input from the compact remnant. Theoretical models predict a wide range of behavour, dependent on binary parameters, but are limited by uncertainties in the complex physics. We need to establish kilonova properties empirically, to inform

searches of GW error boxes, test the models, and quantify their contribution to the heavy element nucleosynthesis budget. Suitable SGRB targets are rare, so intensive followup of any that occur is critical. We propose ToO observations (continuing our c23/24 campaign) of up to two z<~0.35 SGRBs localised during cycle 25/26 to search for and characterise more fully any accompanying kilonova signal.

OBSERVING DESCRIPTION

The aim of this proposal is to search for and characterise the nature of r-process kilonova in the afterglows of short duration GRBs. To do this we wish to search for IR re-brightenings indicative of heavily absorbed r-process production. Such a search requires that the source reddens and then rebrightens in the IR.

Since these objects remain poorly studied (only a single example with little coverage) we have specified a range of observations. The choice of which observation to trigger will be based on the redshift of the burst (in particular to distinguish observations where grism observations are possible), any knowledge of the burst location within the host galaxy, foreground extinction etc. In general we will trigger two IR and one optical observation for monitoring. We have specified two sets of observations so that observations can be repeated later for subtraction of the light.

Below we list the observations that have been specified. Please note that this is a superset of those we will actually perform, and that our total useage will not exceed 12 orbits.

Note: That in our formal phase I proposal we did ask for the filters below, although not all were included in the dummy observations at the front of phase 1.

Visit G1/H1: 1 orbit G102
Visit G2:/H2 1 orbit G141

Visit G3/H3: 2 orbit G102
Visit G4/H4: 2 orbit G141

Visit I1/J1: 1 orbit, split F105W, F140W
Visit I2/J2: 1 orbit, split F105W, F160W

Visit I3/J3: 2 orbits F105W

Visit I4/J4: 2 orbits F125W

Visit I5/J5: 2 orbits F140W

Visit I6/J6: 2 orbits F160W

Visit I7/J7: 2 orbits F110W

Visit I8/J8: 1 orbit F105W

Visit I9/J9: 1 orbit F125W

Visit IA/JA: 1 orbit F140W

Visit IB/JB: 1 orbit F160W

Visit IC/J1C: 1 orbit F110W

Visit O1/P1: 1 orbit F475W

Visit O2/P2: 1 orbit F606W

Visit O3/P3: 1 orbit F814W

Visit O4/P4: 1 orbit F850LP

Visit C1/D1: 2 orbits: F606W, F105W, F160W

Visit

Proposal 15292, Visit G1 Thu Jul 20 17:26:00 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: SCHED 100%; ON HOLD

On Hold Comments: Awaiting SGRB trigger

Patterns

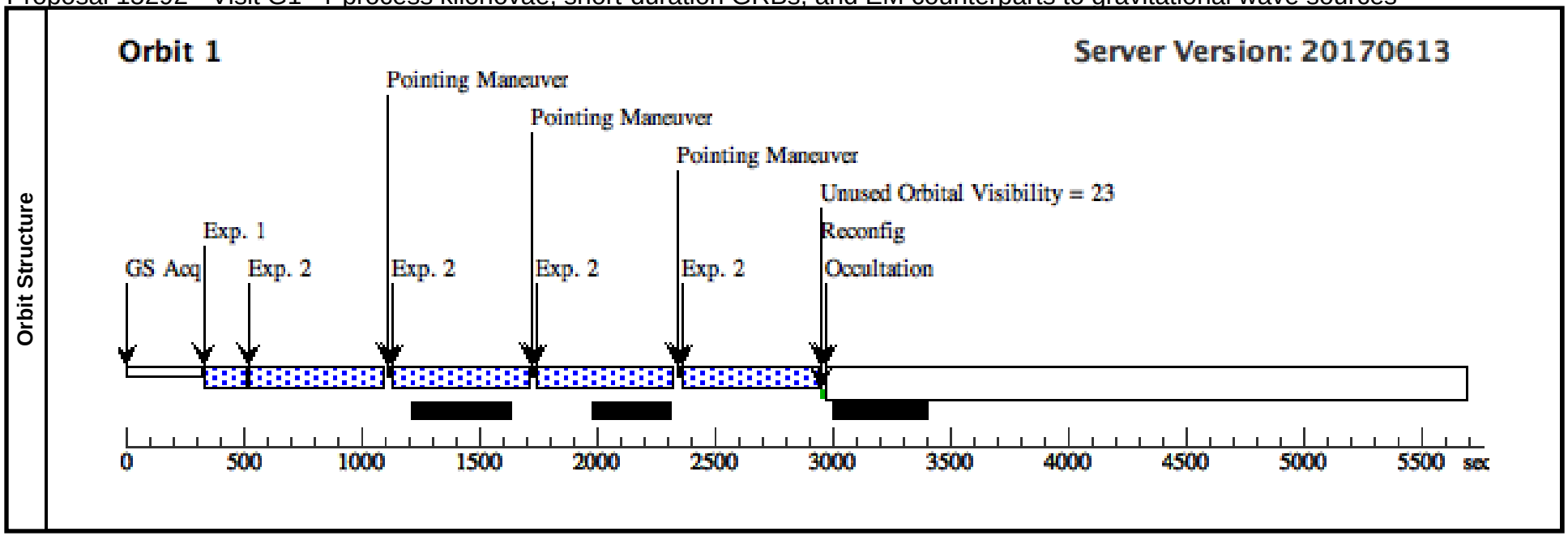
#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(2)

Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=4; SAMP-SEQ=SPARS50			152.933644 Secs (152.934 Secs) *[==>]*	***[1]***
2		(1) SGRB1	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=12; SAMP-SEQ=SPARS50		Pattern 1, Exps 2-2 in Visit G1 (1)	552.937252 Secs (2211.749 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20170613
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Unused Orbital Visibility = 23
Exp. 1
Reconfig
GS Acq
Exp. 2
Exp. 2
Exp. 2
Exp. 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 15292, Visit G2 Thu Jul 20 17:26:00 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: SCHED 100%; ON HOLD

On Hold Comments: Awaiting SGRB trigger

Patterns

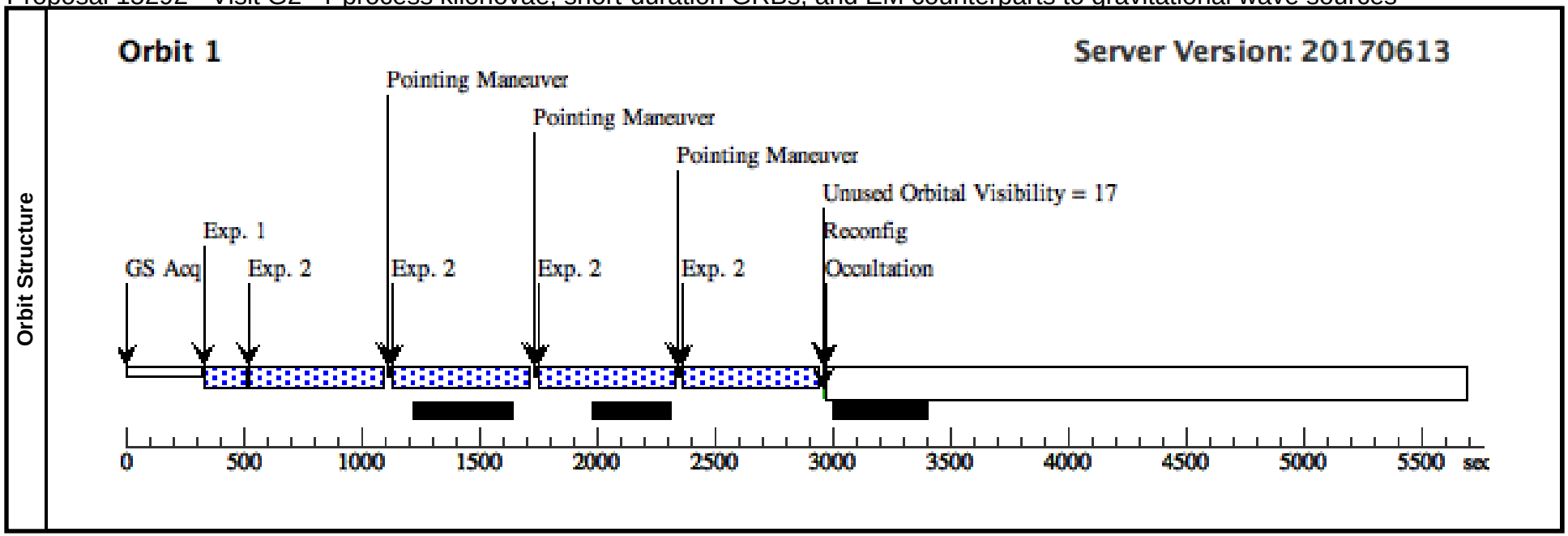
#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(2)

Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=4; SAMP-SEQ=SPAR S50			152.933644 Secs (152.934 Secs) *[==>]*	***[1]***
2		(1) SGRB1	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]***


Orbit Structure
Orbit 1
Server Version: 20170613
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Unused Orbital Visibility = 17
Exp. 1
Reconfig
GS Acq
Exp. 2
Exp. 2
Exp. 2
Exp. 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 15292, Visit G3 Thu Jul 20 17:26:00 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

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	(2)

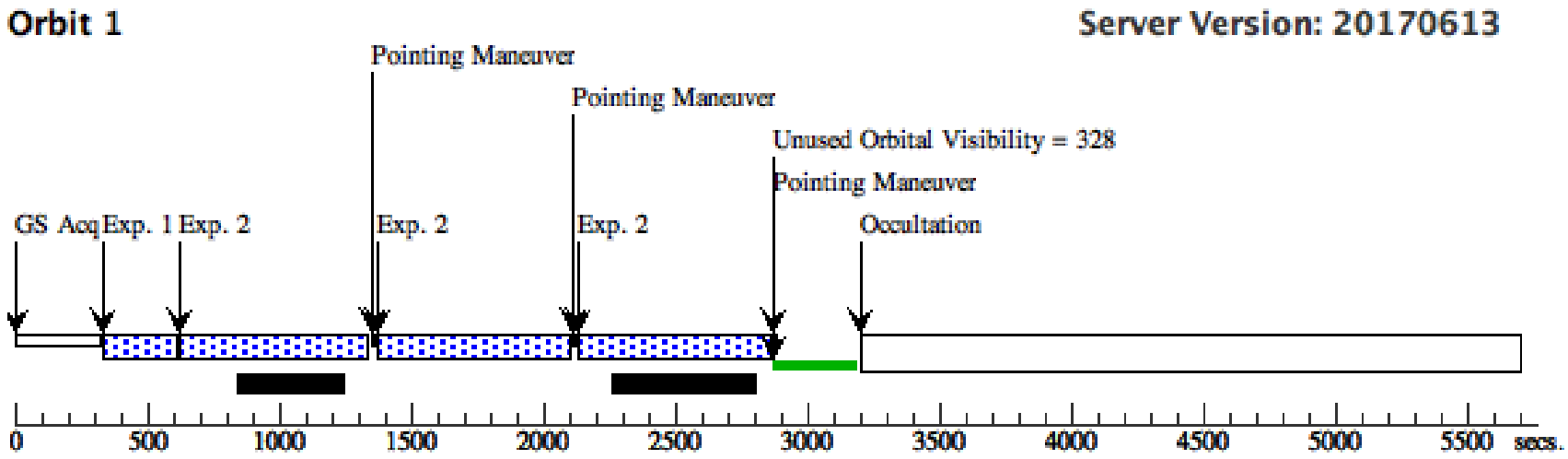
Generic Targets

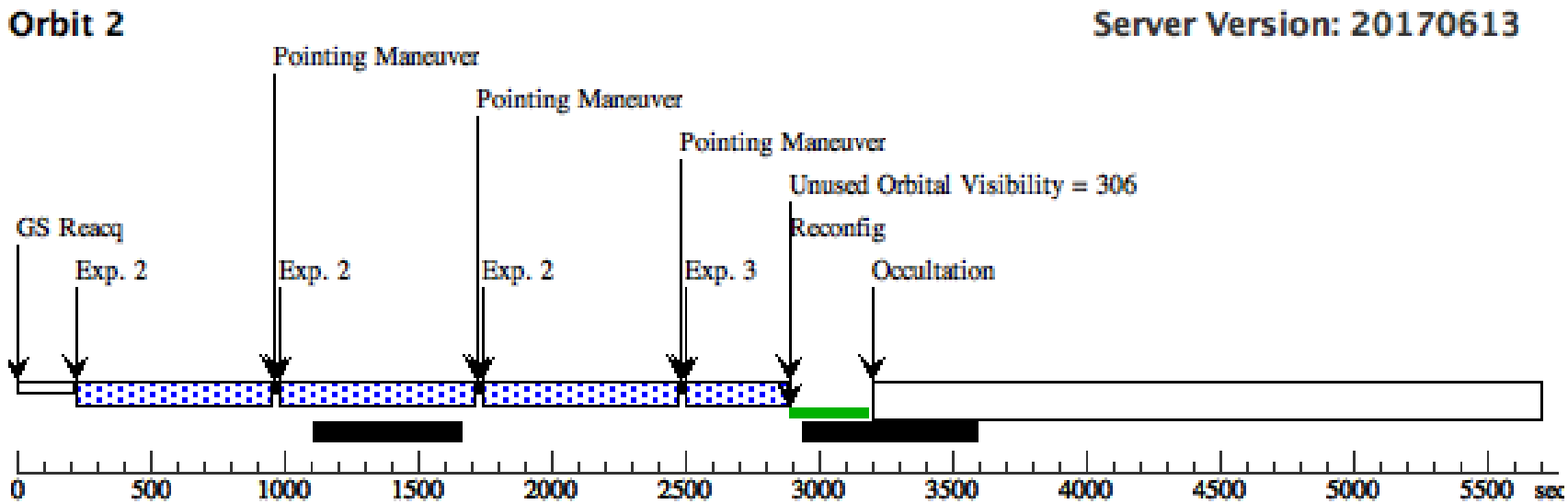
#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=10; SAMP-SEQ=STEP50			249.23203 Secs (249.232 Secs) *[==>]*	***[1]***
2		(1) SGRB1	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=13; SAMP-SEQ=STEP100		Pattern 2, Exps 2-2 in Visit G3 (2)	699.232615 Secs (4195.396 Secs) *[==>(Pattern 1,1)]* *[==>(Pattern 1,2)]* *[==>(Pattern 1,3)]* *[==>(Pattern 2,1)]* *[==>(Pattern 2,2)]* *[==>(Pattern 2,3)]*	 ***[1]*** ***[2]***
3		(1) SGRB1	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.474,0.424		349.232932 Secs (349.233 Secs) *[==>]*	 ***[2]***

Orbit Structure





Visit

Proposal 15292, Visit G4 Thu Jul 20 17:26:00 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

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	(2)

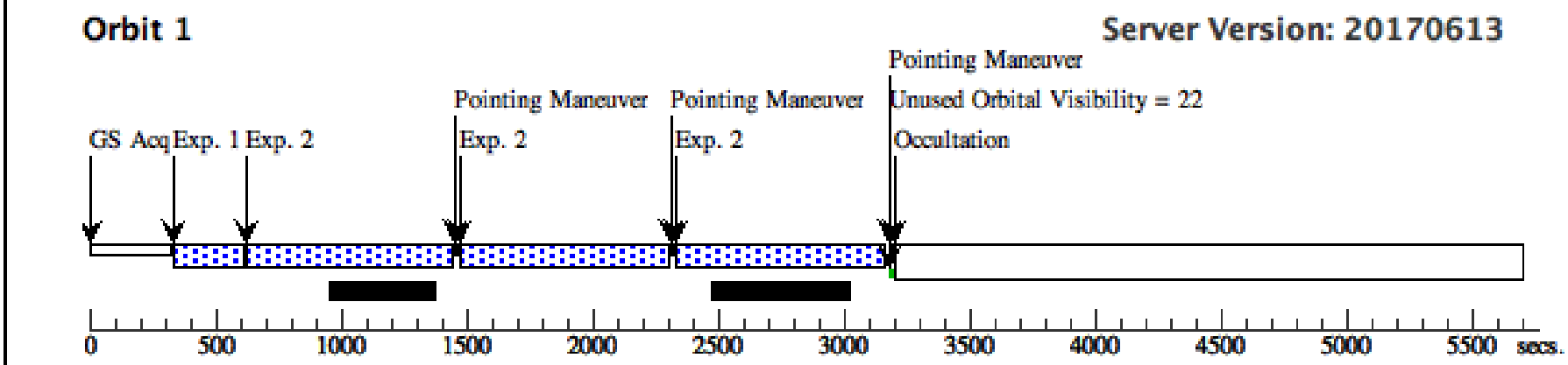
Generic Targets

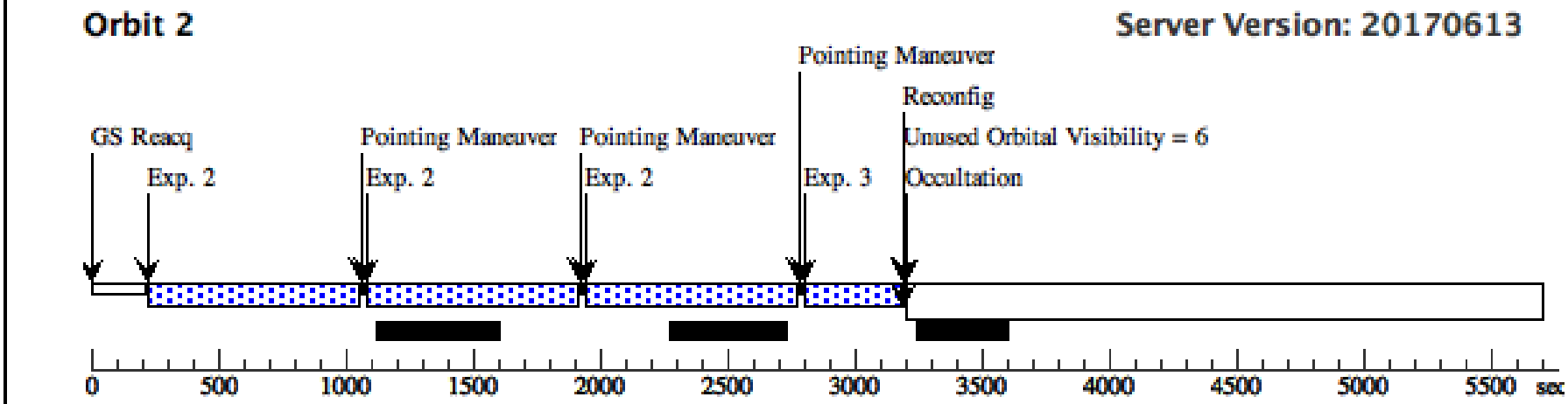
#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=10; SAMP-SEQ=STEP50			249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
2		(1) SGRB1	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=14; SAMP-SEQ=STEP100		Pattern 2, Exps 2-2 in Visit G4 (2)	799.232938 Secs (4795.398 Secs) *[==>(Pattern 1,1)]* *[==>(Pattern 1,2)]* *[==>(Pattern 1,3)]*	*[1]*
								[==>(Pattern 2,1)] *[==>(Pattern 2,2)]* *[==>(Pattern 2,3)]*	*[2]*
3		(1) SGRB1	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.474,0.424		349.232932 Secs (349.233 Secs) *[==>]*	*[2]*

Orbit Structure





Visit

Proposal 15292, Visit I1 Thu Jul 20 17:26:00 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

Patterns

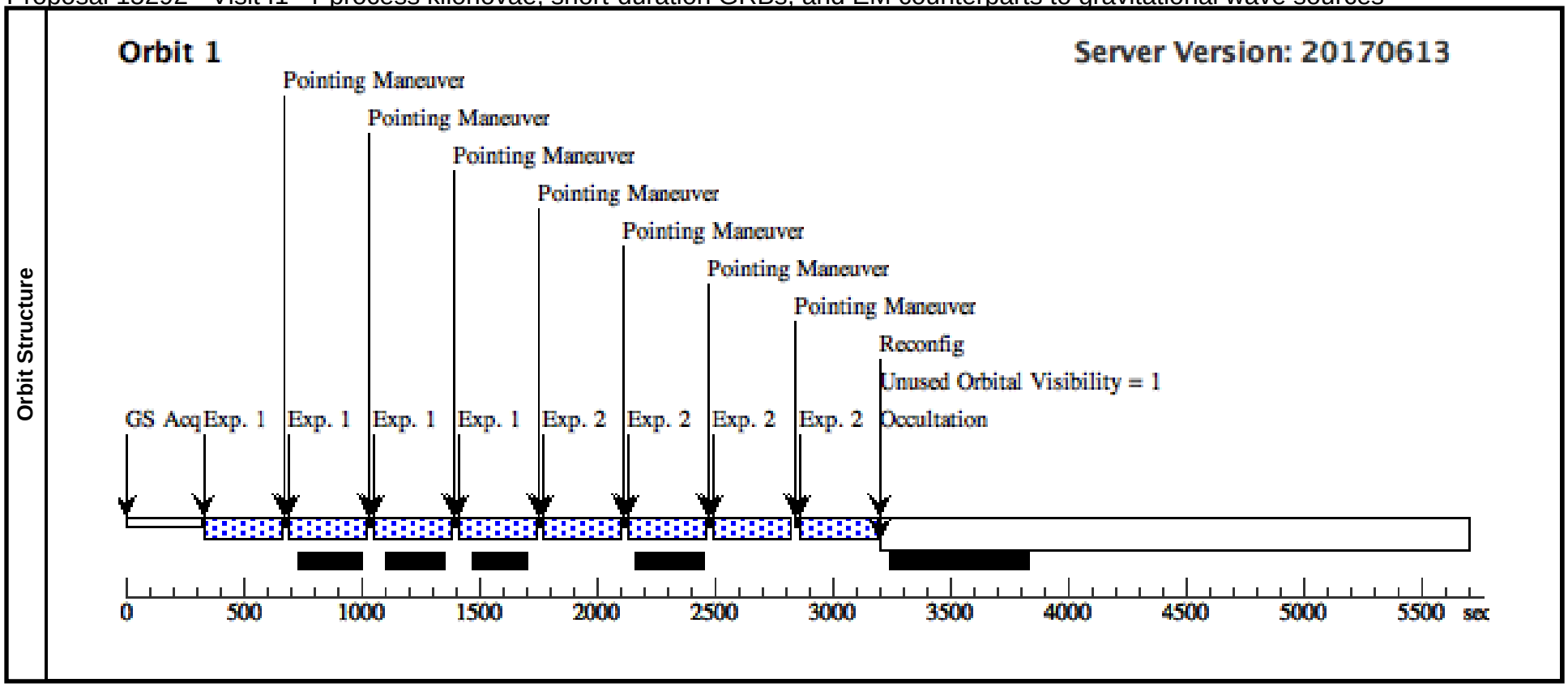
#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1), (2)

Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F105W	SAMP-SEQ=STEP100; NSAMP=9		Pattern 1, Exps 1-1 in Visit I1 (1)	299.231323 Secs (1196.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F140W	SAMP-SEQ=STEP100; NSAMP=9		Pattern 1, Exps 2-2 in Visit I1 (1)	299.231323 Secs (1196.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20170613
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Reconfig
Unused Orbital Visibility = 1
GS Acq
Exp. 1
Exp. 1
Exp. 1
Exp. 1
Exp. 2
Exp. 2
Exp. 2
Exp. 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 15292, Visit I2 Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

Patterns

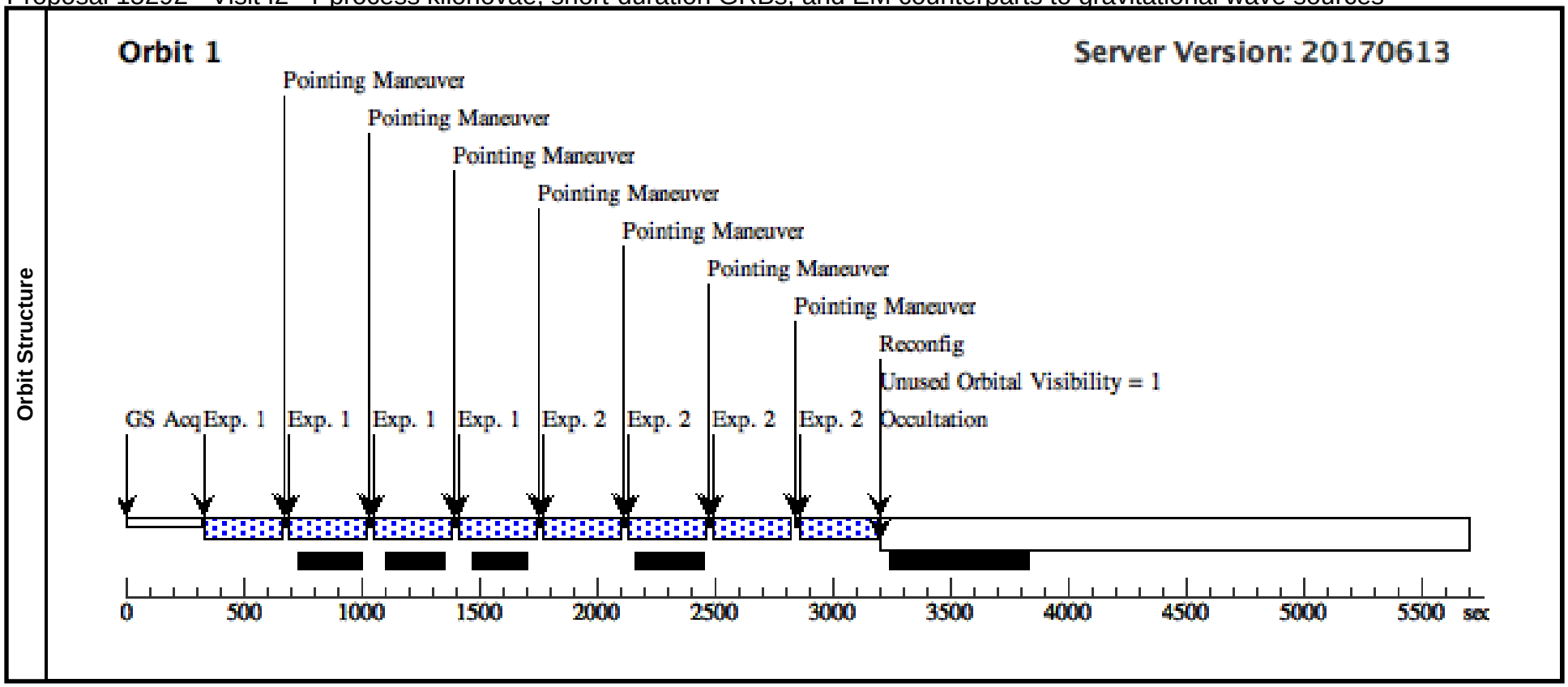
#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1), (2)

Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F105W	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) SGRB1	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]***


Orbit Structure
Orbit 1
Server Version: 20170613
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Reconfig
Unused Orbital Visibility = 1
GS Acq
Exp. 1
Exp. 1
Exp. 1
Exp. 1
Exp. 2
Exp. 2
Exp. 2
Exp. 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 15292, Visit I3 Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

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)

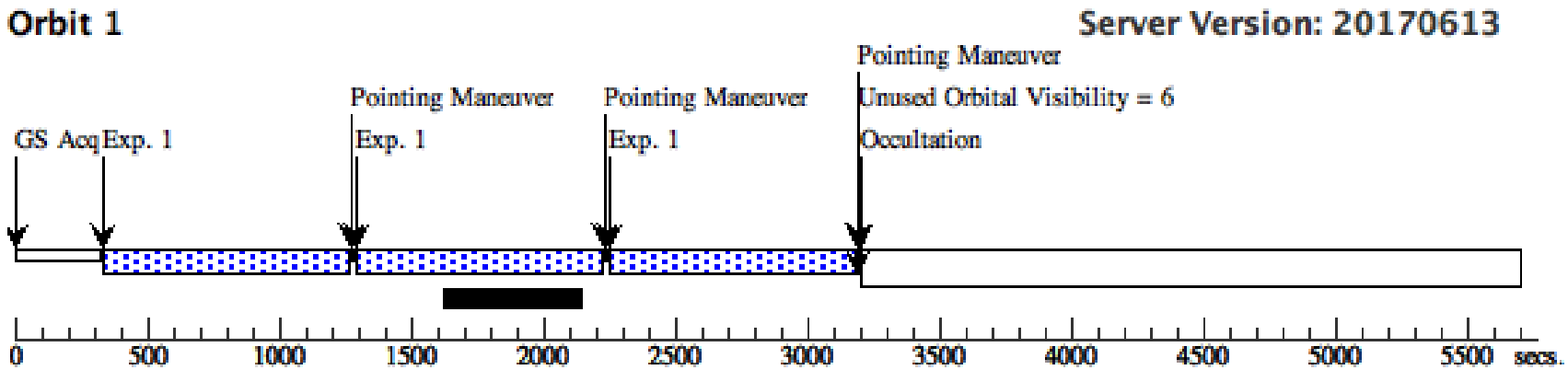
Generic Targets

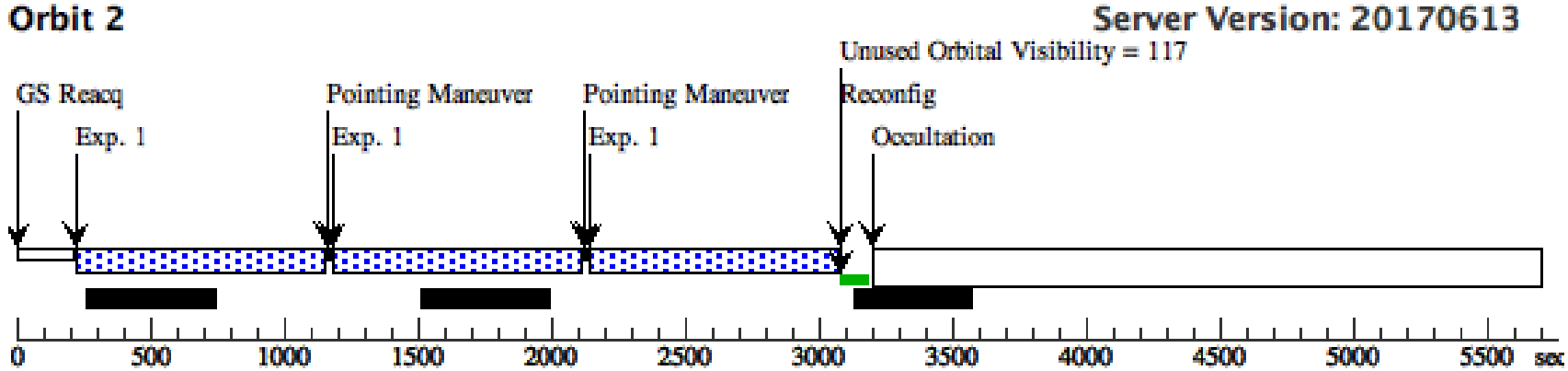
#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F105W	SAMP-SEQ=STEP100; NSAMP=15		Pattern 2, Exps 1-1 in Visit I3 (2)	899.233261 Secs (5395.4 Secs)	
								[==>(Pattern 1,1)] *[==>(Pattern 1,2)]* *[==>(Pattern 1,3)]*	***[1]***
								[==>(Pattern 2,1)] *[==>(Pattern 2,2)]* *[==>(Pattern 2,3)]*	***[2]***

Orbit Structure





Visit

Proposal 15292, Visit I4 Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

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)

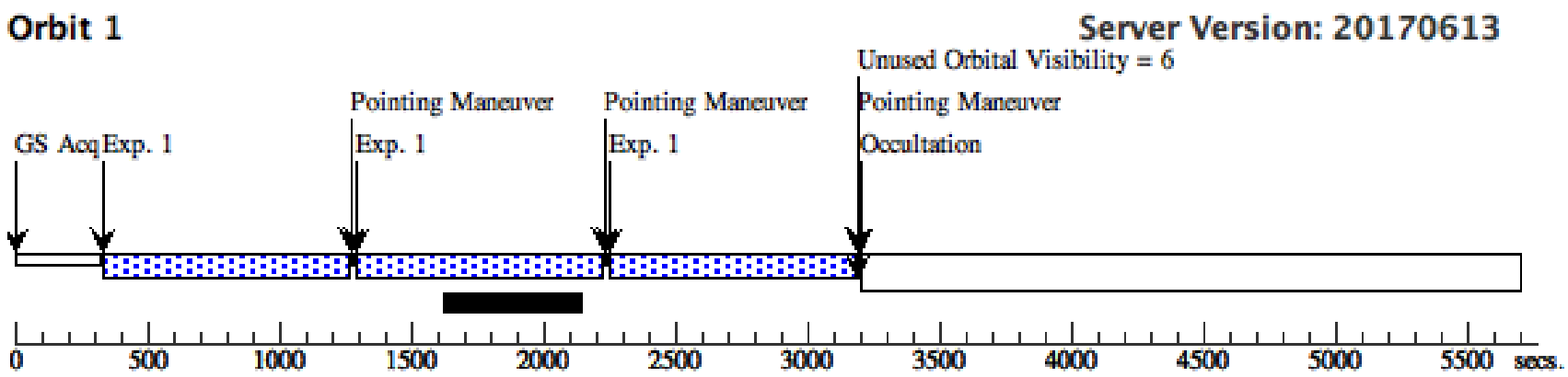
Generic Targets

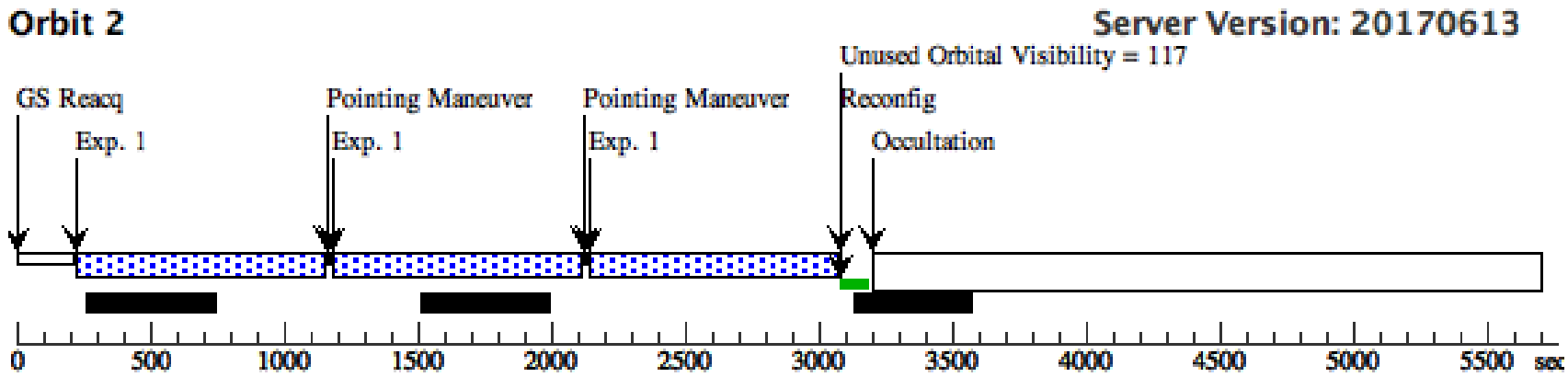
#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=STEP100; NSAMP=15		Pattern 2, Exps 1-1 in Visit I4 (2)	899.233261 Secs (5395.4 Secs)	
								[==>(Pattern 1,1)] *[==>(Pattern 1,2)]* *[==>(Pattern 1,3)]*	***[1]***
								[==>(Pattern 2,1)] *[==>(Pattern 2,2)]* *[==>(Pattern 2,3)]*	***[2]***

Orbit Structure





Visit

Proposal 15292, Visit I5 Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

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)

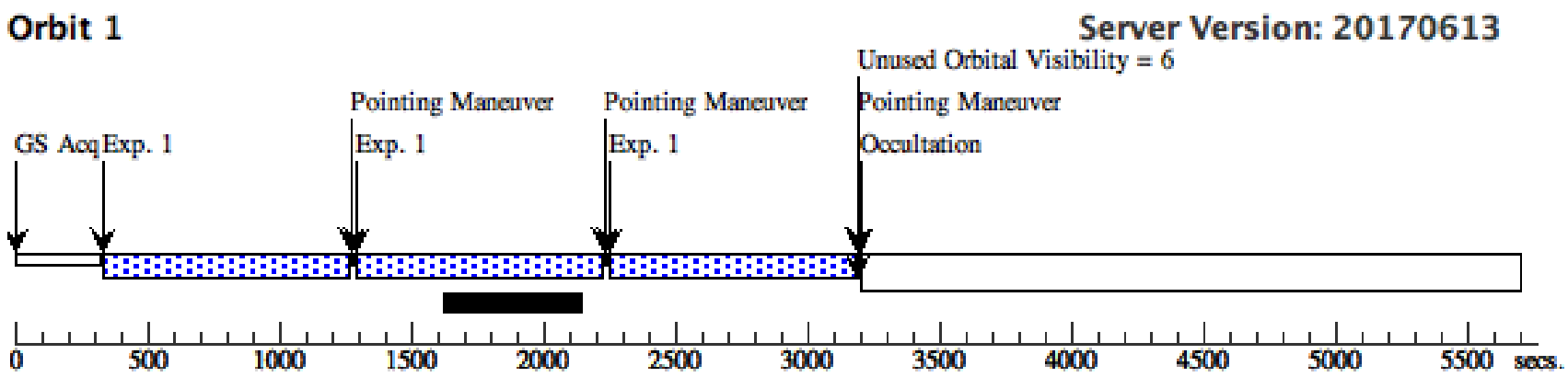
Generic Targets

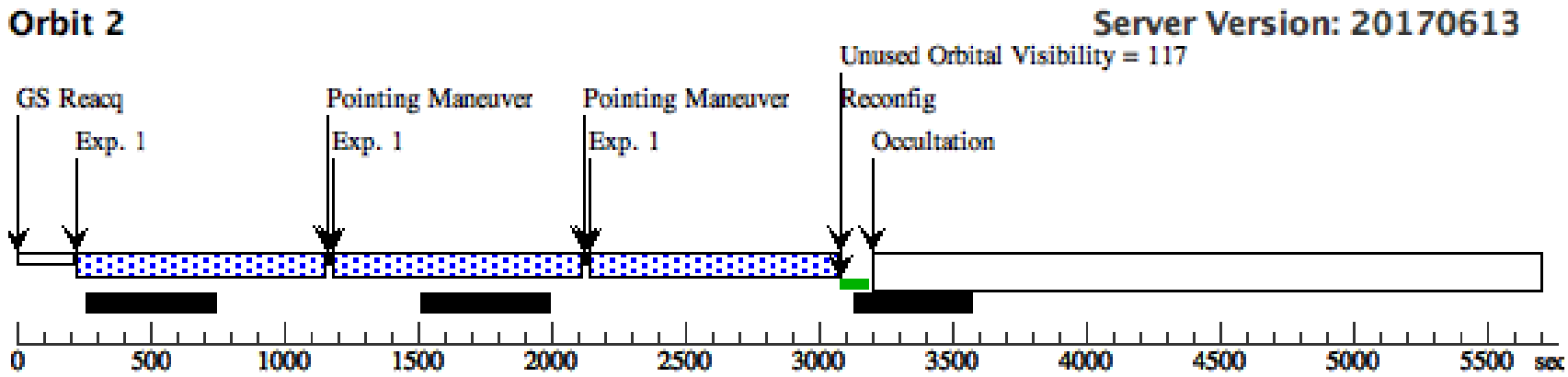
#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F140W	SAMP-SEQ=STEP100; NSAMP=15		Pattern 2, Exps 1-1 in Visit I5 (2)	899.233261 Secs (5395.4 Secs)	
								[==>(Pattern 1,1)] *[==>(Pattern 1,2)]* *[==>(Pattern 1,3)]*	***[1]***
								[==>(Pattern 2,1)] *[==>(Pattern 2,2)]* *[==>(Pattern 2,3)]*	***[2]***

Orbit Structure





Visit

Proposal 15292, Visit I6 Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

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)

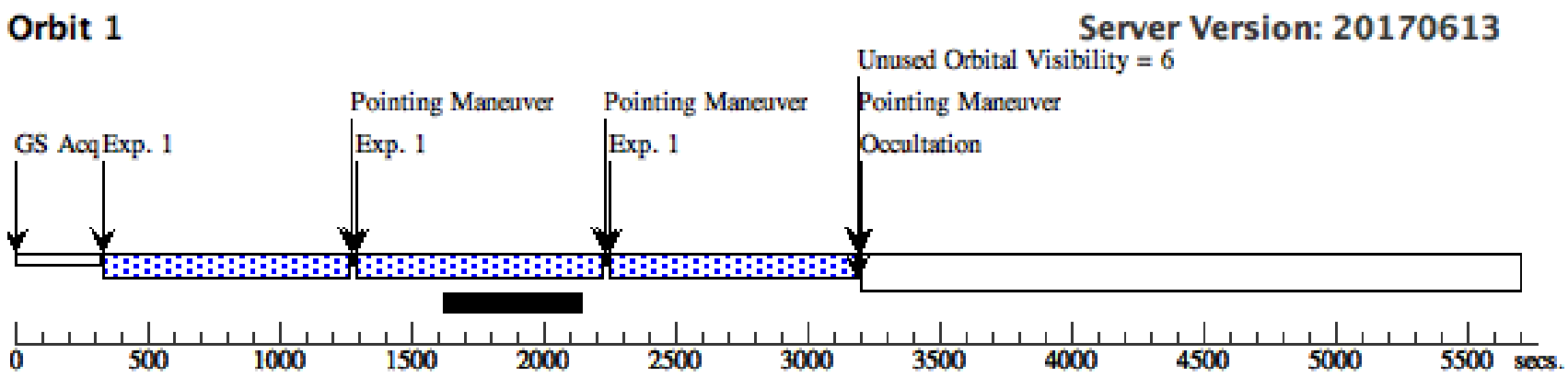
Generic Targets

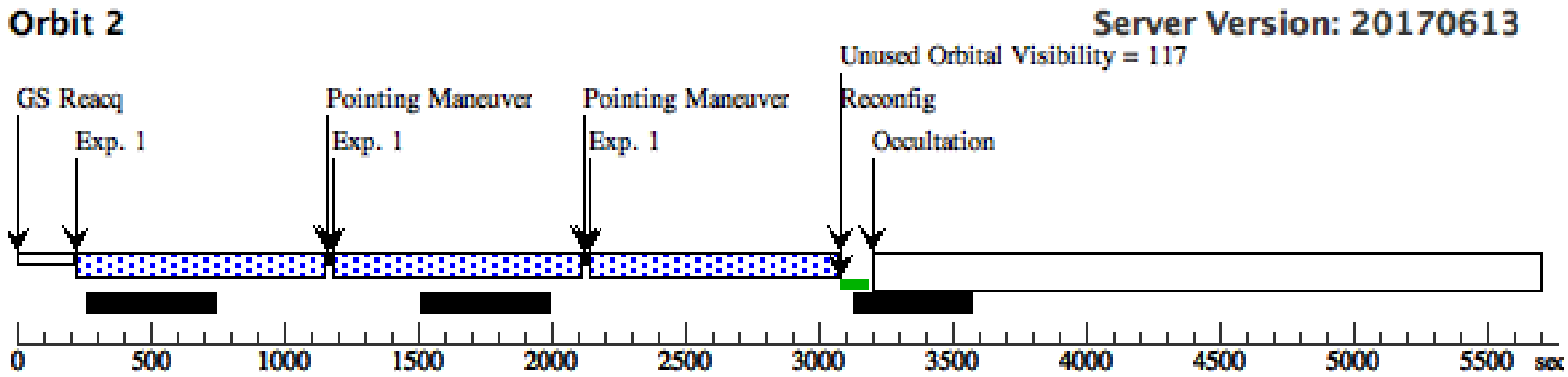
#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP100; NSAMP=15		Pattern 2, Exps 1-1 in Visit I6 (2)	899.233261 Secs (5395.4 Secs)	
								[==>(Pattern 1,1)] *[==>(Pattern 1,2)]* *[==>(Pattern 1,3)]*	***[1]***
								[==>(Pattern 2,1)] *[==>(Pattern 2,2)]* *[==>(Pattern 2,3)]*	***[2]***

Orbit Structure





Visit

Proposal 15292, Visit I7 Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

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)

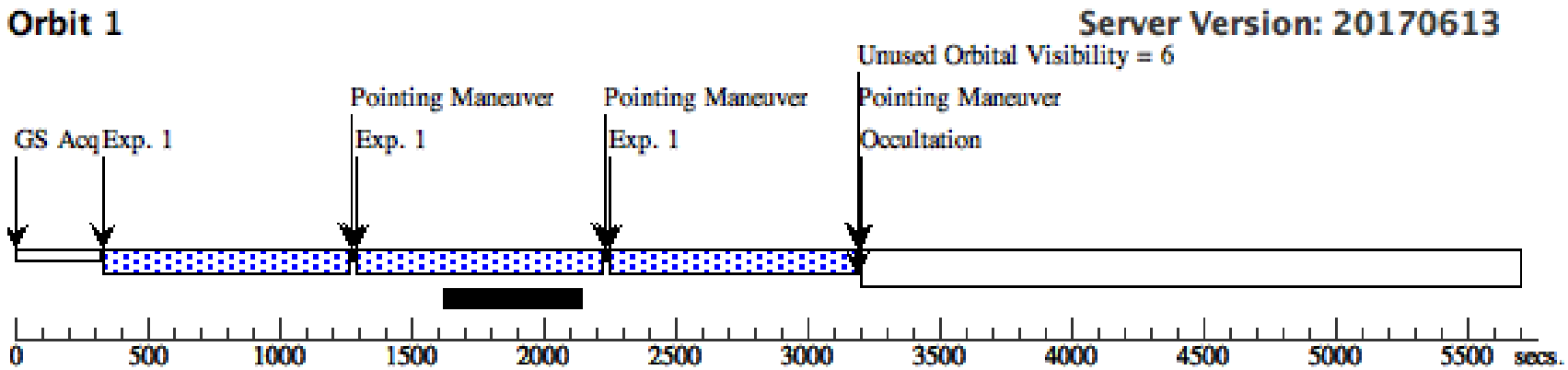
Generic Targets

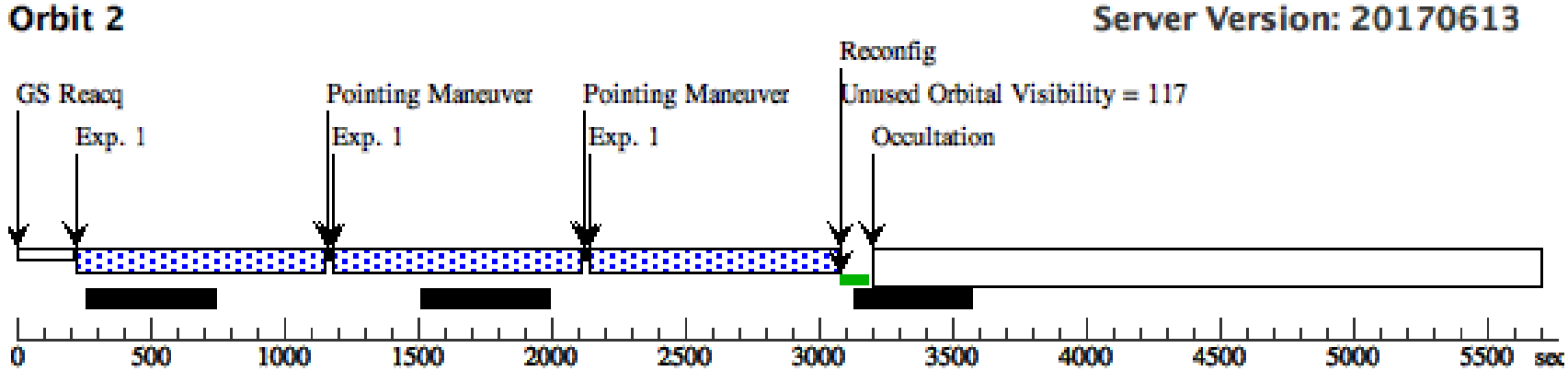
#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F110W	SAMP-SEQ=STEP100; NSAMP=15		Pattern 2, Exps 1-1 in Visit I7 (2)	899.233261 Secs (5395.4 Secs)	
								[==>(Pattern 1,1)] *[==>(Pattern 1,2)]* *[==>(Pattern 1,3)]*	***[1]***
								[==>(Pattern 2,1)] *[==>(Pattern 2,2)]* *[==>(Pattern 2,3)]*	***[2]***

Orbit Structure





Visit

Proposal 15292, Visit I8 Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

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)

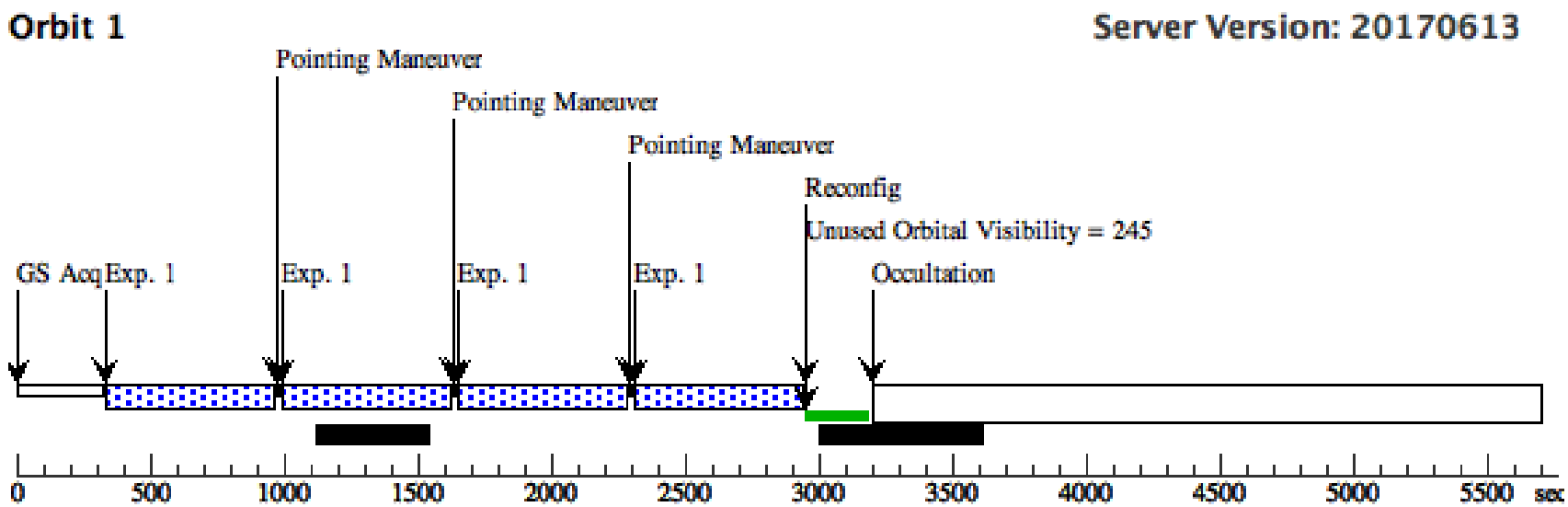
Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F105W	SAMP-SEQ=STEP100; NSAMP=12		Pattern 1, Exps 1-1 in Visit I8 (1)	599.232292 Secs (2396.929 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15292, Visit I9 Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

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)

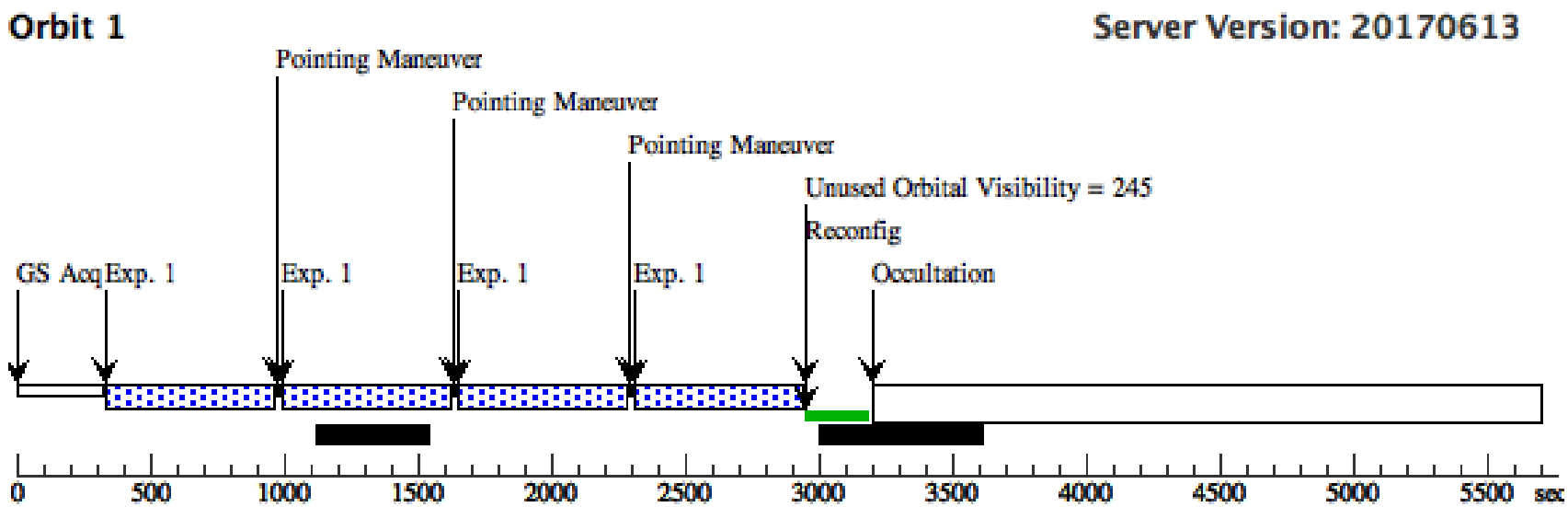
Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=STEP100; NSAMP=12		Pattern 1, Exps 1-1 in Visit I9 (1)	599.232292 Secs (2396.929 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15292, Visit IA Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

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)

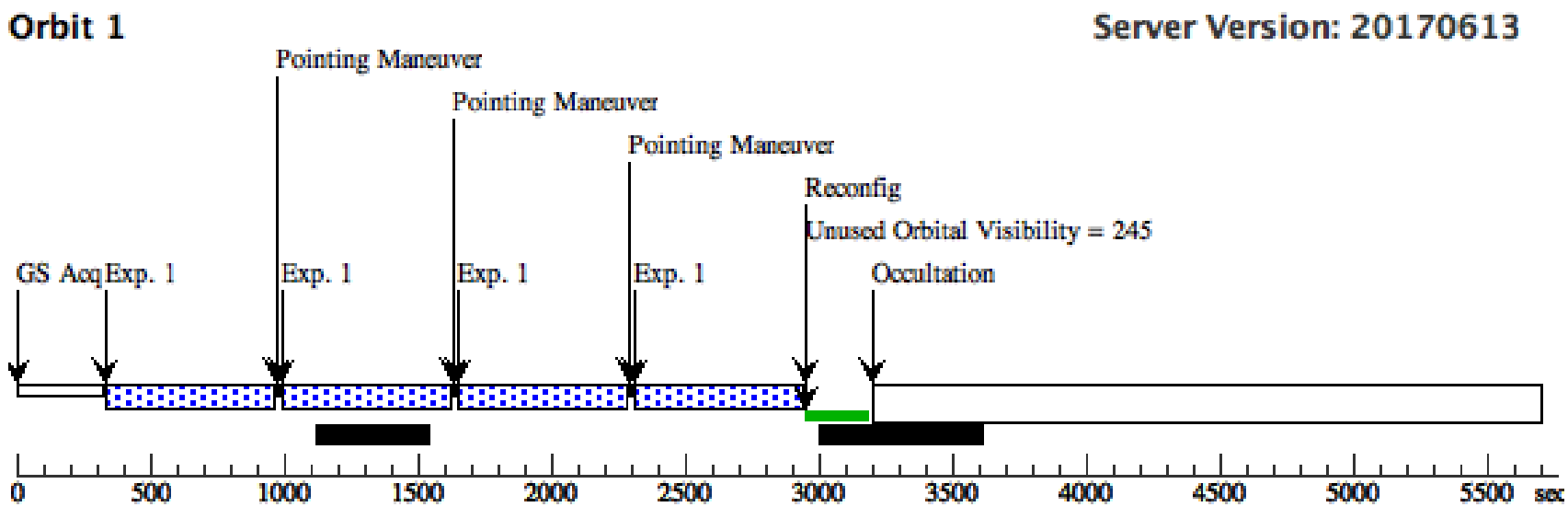
Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F140W	SAMP-SEQ=STEP100; NSAMP=12		Pattern 1, Exps 1-1 in Visit IA (1)	599.232292 Secs (2396.929 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	*[1]*

Orbit Structure



Visit

Proposal 15292, Visit IB Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

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)

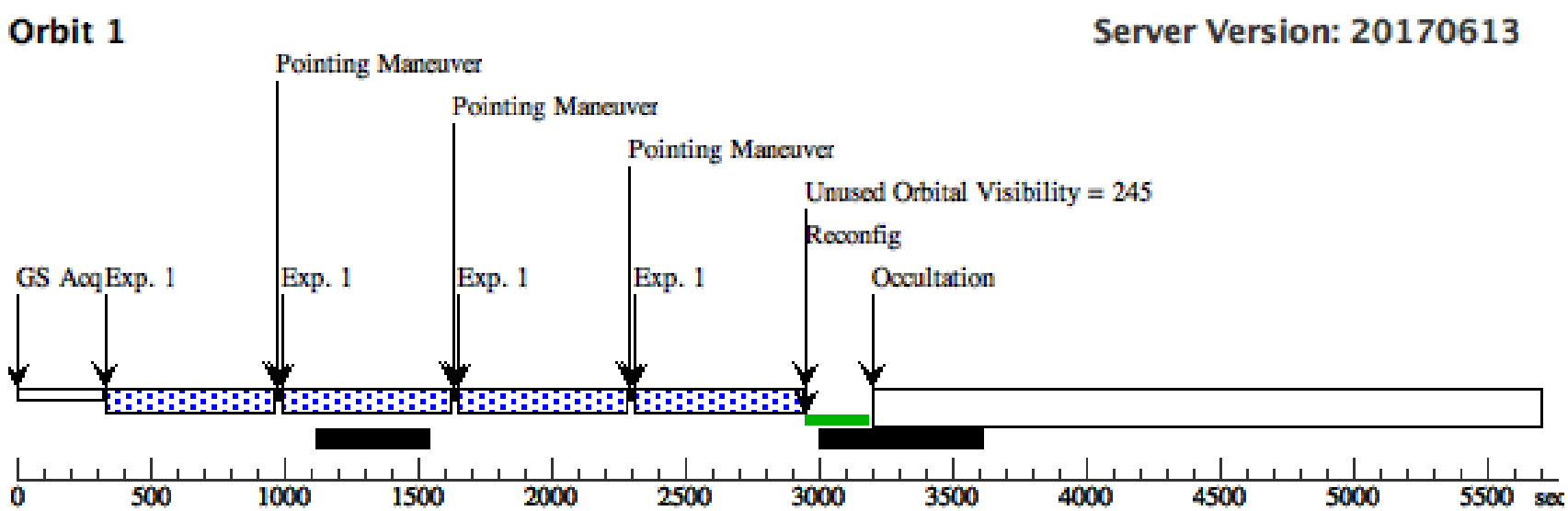
Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP100; NSAMP=12		Pattern 1, Exps 1-1 in Visit IB (1)	599.232292 Secs (2396.929 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15292, IC (16) Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

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)

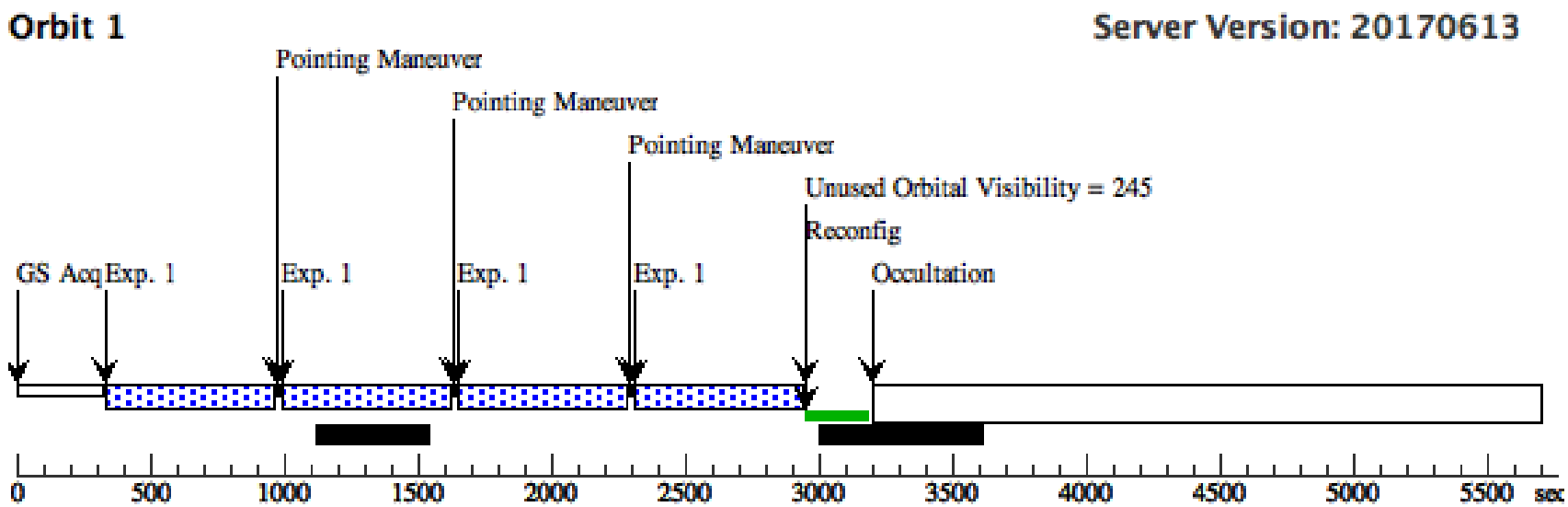
Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F110W	SAMP-SEQ=STEP100; NSAMP=12		Pattern 1, Exps 1-1 in IC (16) (1)	599.232292 Secs (2396.929 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15292, Visit O1 Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

Patterns

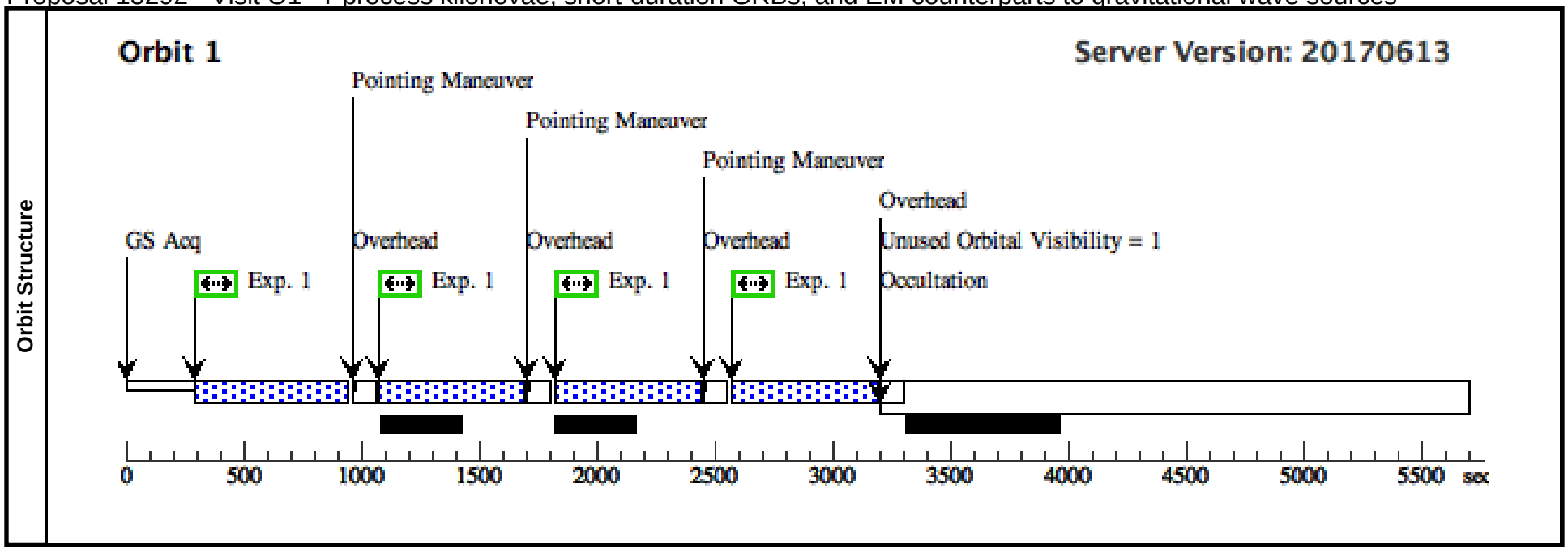
#	Primary Pattern		Secondary Pattern	Exposures
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1)

Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/UVIS, ACCUM, UVIS2	F475W		POS TARG -60,-30	Pattern 3, Exps 1-1 in Visit O1 (3)	600 Secs (2476 Secs) *[==>619.0 Secs (Pattern 1)]* *[==>619.0 Secs (Pattern 2)]* *[==>619.0 Secs (Pattern 3)]* *[==>619.0 Secs (Pattern 4)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20170613
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Overhead
GS Acq
Overhead
Overhead
Overhead
Unused Orbital Visibility = 1
Exp. 1
Exp. 1
Exp. 1
Exp. 1
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 15292, Visit O2 Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

Patterns

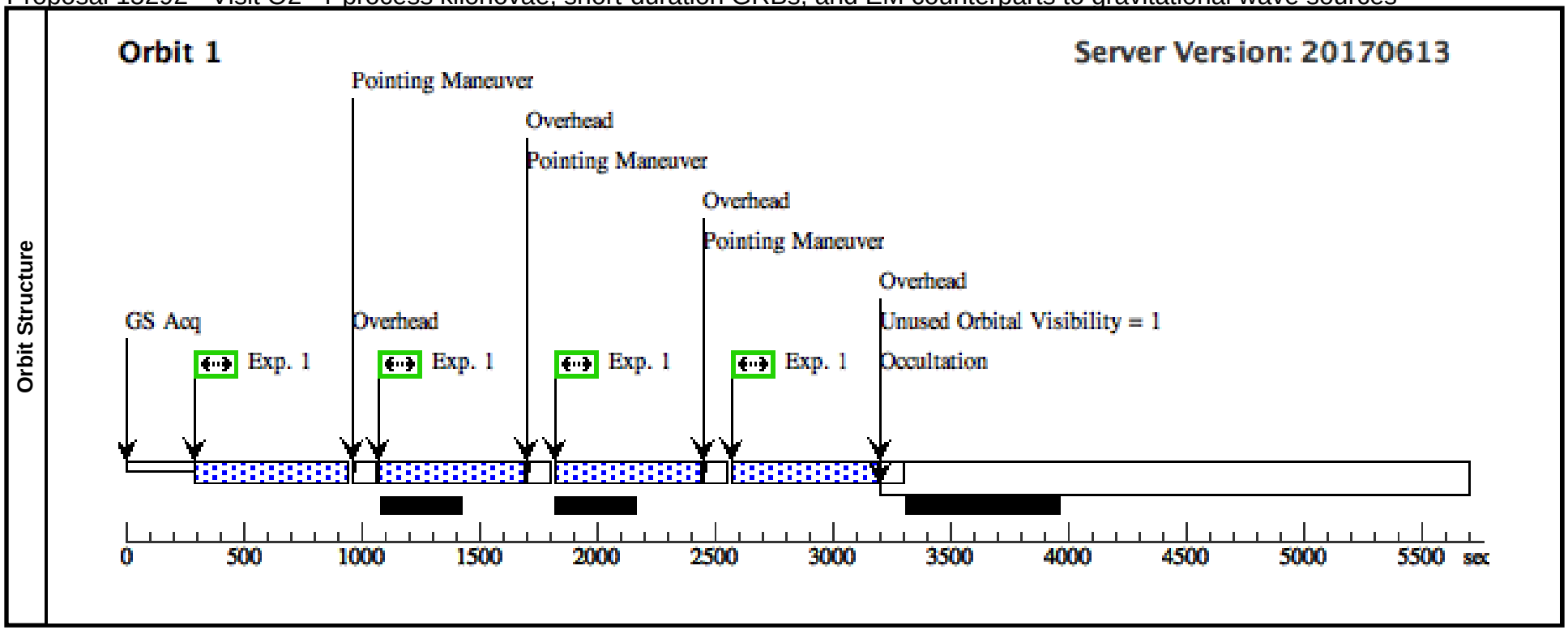
#	Primary Pattern		Secondary Pattern	Exposures
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1)

Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/UVIS, ACCUM, UVIS2	F606W		POS TARG -60,-30	Pattern 3, Exps 1-1 in Visit O2 (3)	600 Secs (2476 Secs) *[==>619.0 Secs (Pattern 1)]* *[==>619.0 Secs (Pattern 2)]* *[==>619.0 Secs (Pattern 3)]* *[==>619.0 Secs (Pattern 4)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20170613
Pointing Maneuver
Overhead
Pointing Maneuver
Overhead
Pointing Maneuver
Overhead
GS Acq
Overhead
Unused Orbital Visibility = 1
Exp. 1
Exp. 1
Exp. 1
Exp. 1
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 15292, Visit O3 Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

Patterns

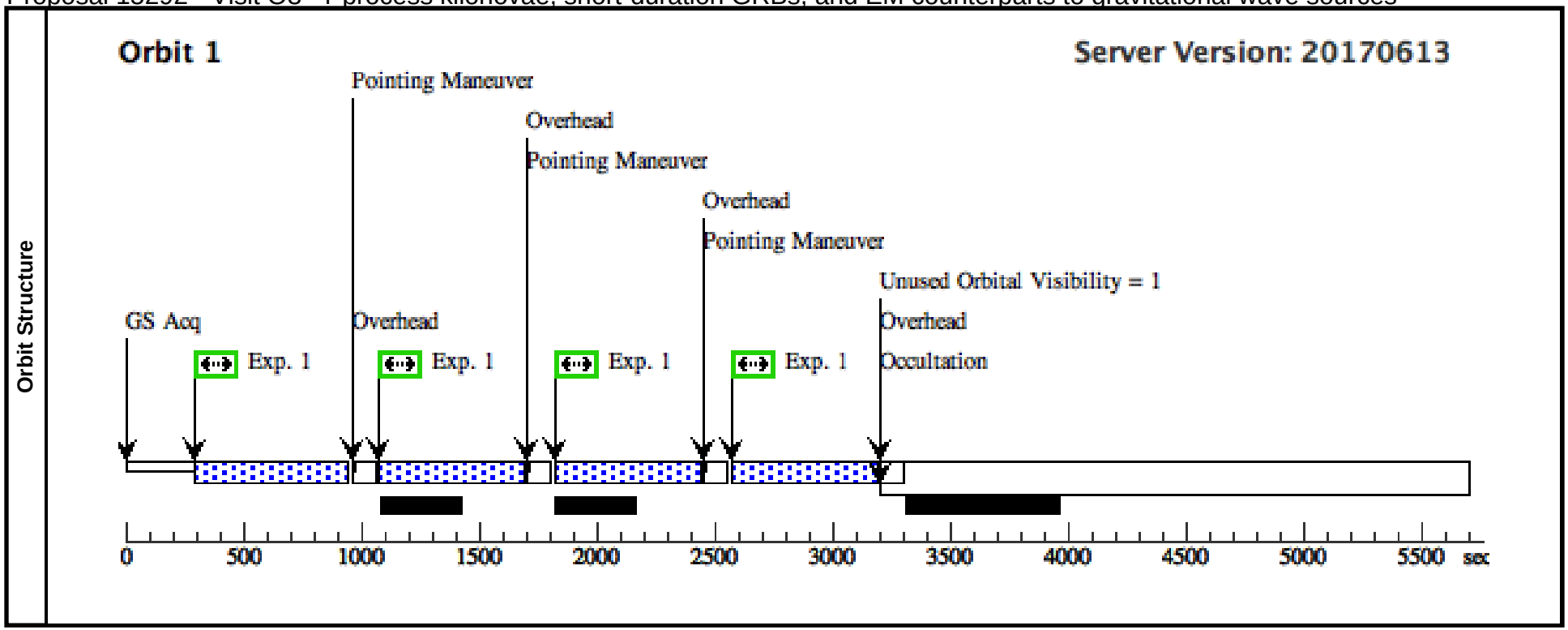
#	Primary Pattern		Secondary Pattern	Exposures
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1)

Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/UVIS, ACCUM, UVIS2	F814W		POS TARG -60,-30	Pattern 3, Exps 1-1 in Visit O3 (3)	700 Secs (2476 Secs) *[==>619.0 Secs (Pattern 1)]* *[==>619.0 Secs (Pattern 2)]* *[==>619.0 Secs (Pattern 3)]* *[==>619.0 Secs (Pattern 4)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20170613
Pointing Maneuver
Overhead
Pointing Maneuver
Overhead
Pointing Maneuver
Unused Orbital Visibility = 1
GS Acq
Overhead
Overhead
Occultation
Exp. 1
Exp. 1
Exp. 1
Exp. 1
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 15292, Visit O4 Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

Patterns

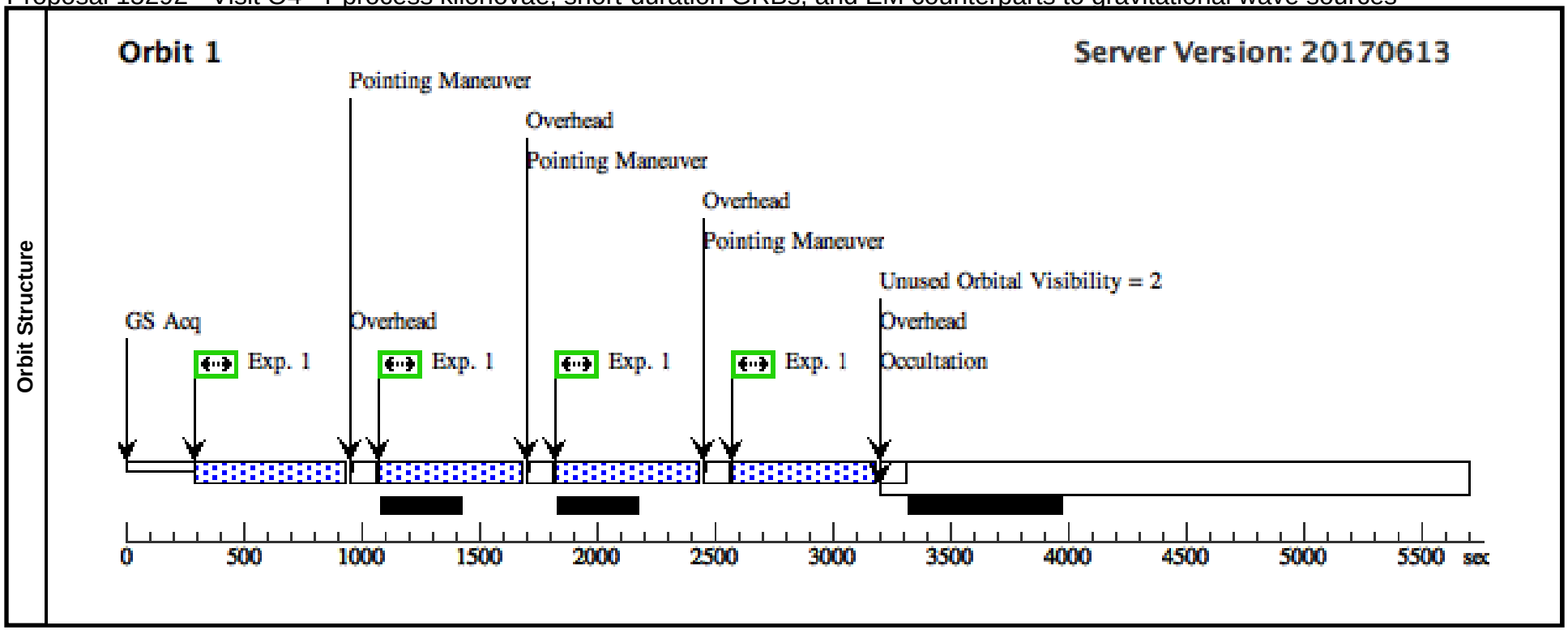
#	Primary Pattern		Secondary Pattern	Exposures
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1)

Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/UVIS, ACCUM, UVIS2	F850LP	FLASH=7	POS TARG -60,-30	Pattern 3, Exps 1-1 in Visit O4 (3)	700 Secs (2460 Secs) *[==>615.0 Secs (Pattern 1)]* *[==>615.0 Secs (Pattern 2)]* *[==>615.0 Secs (Pattern 3)]* *[==>615.0 Secs (Pattern 4)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20170613
Pointing Maneuver
Overhead
Pointing Maneuver
Overhead
Pointing Maneuver
Unused Orbital Visibility = 2
GS Acq
Overhead
Overhead
Occultation
Exp. 1
Exp. 1
Exp. 1
Exp. 1
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 15292, Visit H1 Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: SCHED 100%; ON HOLD

On Hold Comments: Awaiting SGRB trigger

Patterns

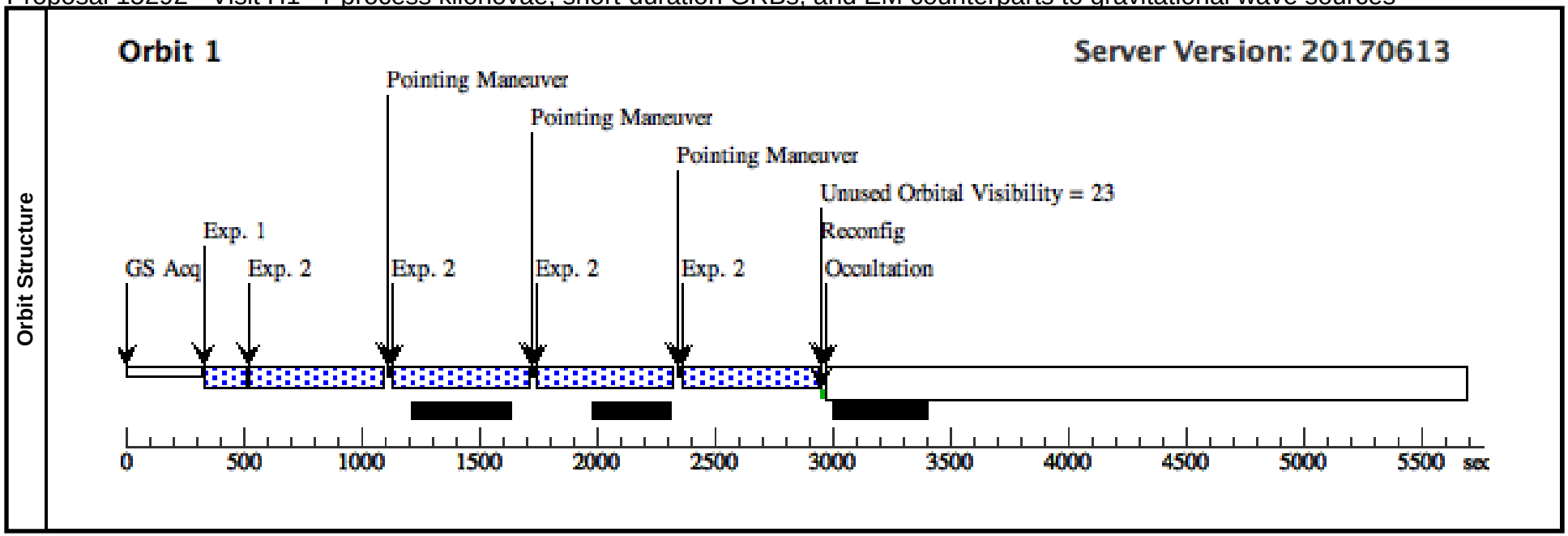
#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(2)

Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=4; SAMP-SEQ=SPARS50			152.933644 Secs (152.934 Secs) *[==>]*	*[1]*
2		(1) SGRB1	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=12; SAMP-SEQ=SPARS50		Pattern 1, Exps 2-2 in Visit H1 (1)	552.937252 Secs (2211.749 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	*[1]*


Orbit Structure
Orbit 1
Server Version: 20170613
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Unused Orbital Visibility = 23
Exp. 1
Reconfig
GS Acq
Exp. 2
Exp. 2
Exp. 2
Exp. 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 15292, Visit H2 Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: SCHED 100%; ON HOLD

On Hold Comments: Awaiting SGRB trigger

Patterns

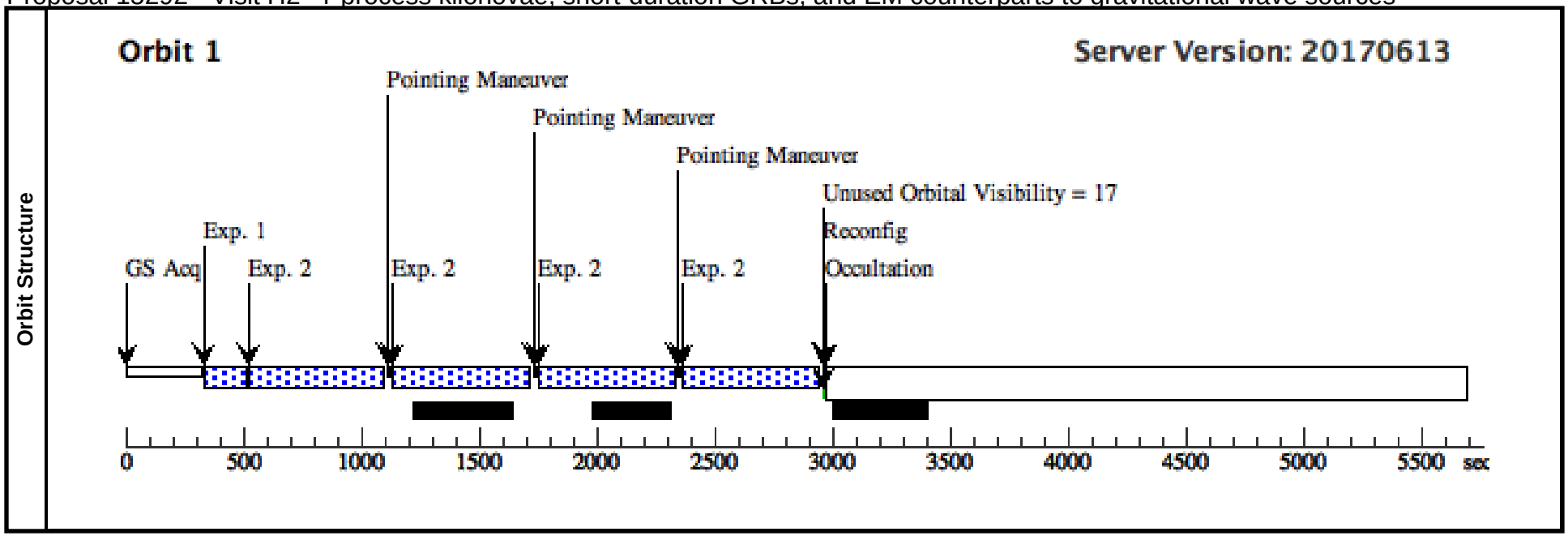
#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(2)

Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=4; SAMP-SEQ=SPARS50			152.933644 Secs (152.934 Secs) *[==>]*	***[1]***
2		(1) SGRB1	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPARS50		Pattern 1, Exps 2-2 in Visit H2 (1)	552.937252 Secs (2211.749 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20170613
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Unused Orbital Visibility = 17
Exp. 1
Reconfig
GS Acq
Exp. 2
Exp. 2
Exp. 2
Exp. 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 15292, Visit H3 Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

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	(2)

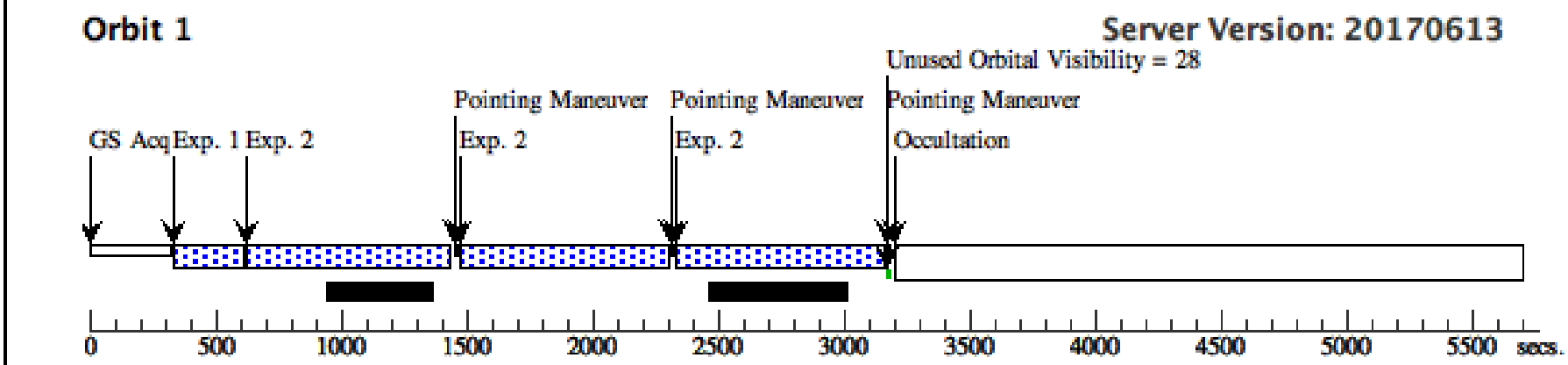
Generic Targets

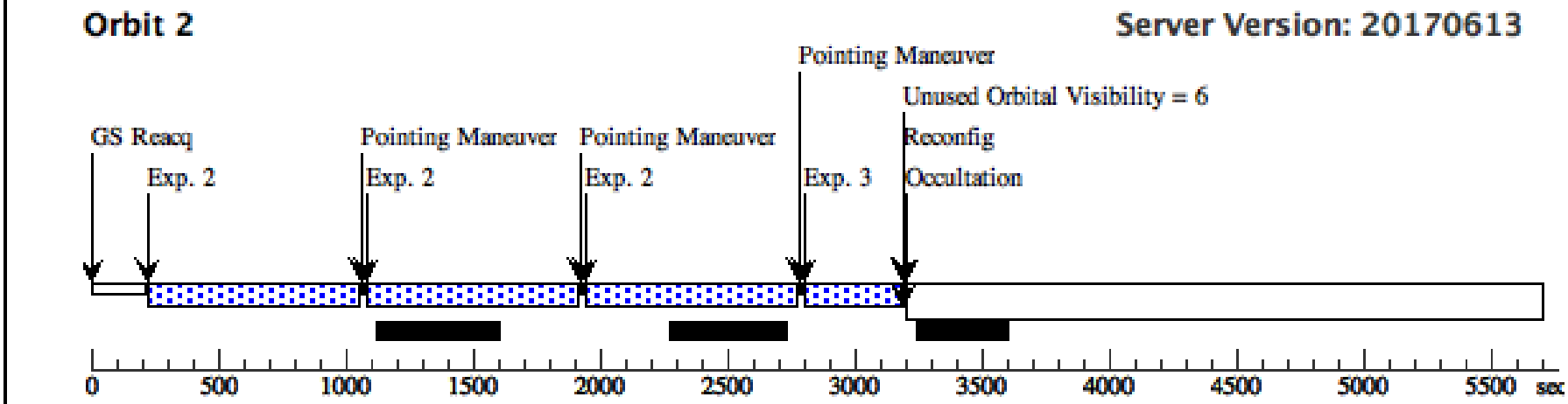
#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=10; SAMP-SEQ=STEP50			249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
2		(1) SGRB1	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=14; SAMP-SEQ=STEP100		Pattern 2, Exps 2-2 in Visit H3 (2)	799.232938 Secs (4795.398 Secs) *[==>(Pattern 1,1)]* *[==>(Pattern 1,2)]* *[==>(Pattern 1,3)]*	*[1]*
								[==>(Pattern 2,1)] *[==>(Pattern 2,2)]* *[==>(Pattern 2,3)]*	*[2]*
3		(1) SGRB1	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.474,0.424		349.232932 Secs (349.233 Secs) *[==>]*	*[2]*

Orbit Structure





Visit

Proposal 15292, Visit H4 Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

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	(2)

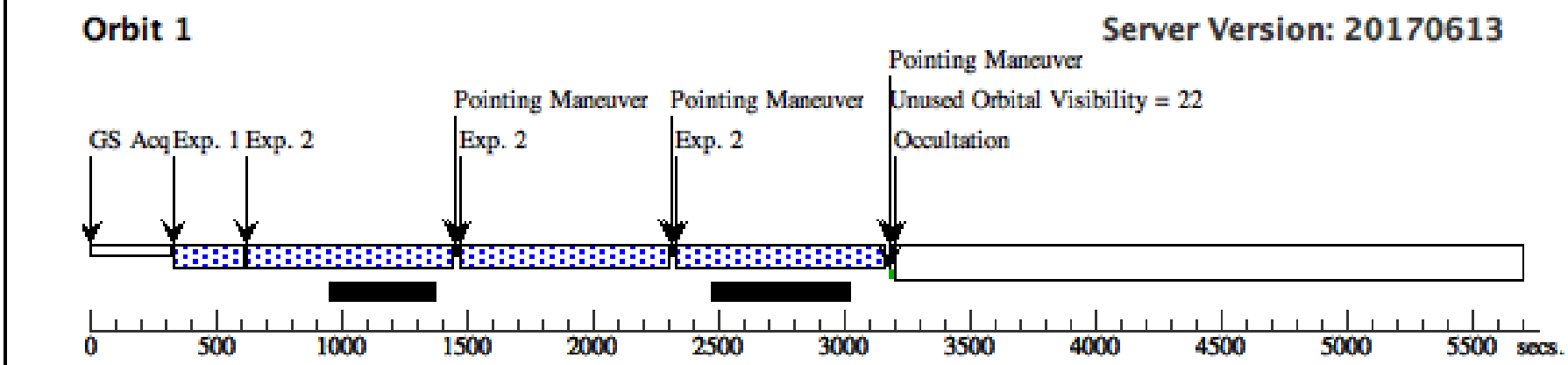
Generic Targets

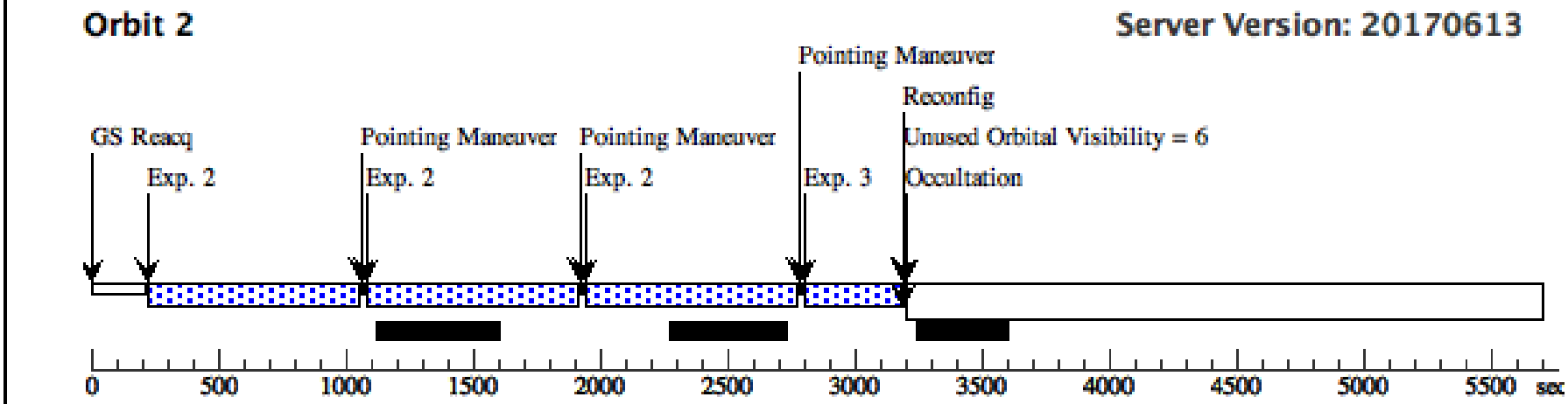
#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=10; SAMP-SEQ=STEP50			249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
2		(1) SGRB1	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=14; SAMP-SEQ=STEP100		Pattern 2, Exps 2-2 in Visit H4 (2)	799.232938 Secs (4795.398 Secs) *[==>(Pattern 1,1)]* *[==>(Pattern 1,2)]* *[==>(Pattern 1,3)]*	*[1]*
								[==>(Pattern 2,1)] *[==>(Pattern 2,2)]* *[==>(Pattern 2,3)]*	*[2]*
3		(1) SGRB1	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.474,0.424		349.232932 Secs (349.233 Secs) *[==>]*	*[2]*

Orbit Structure





Visit

Proposal 15292, Visit J1 Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

Patterns

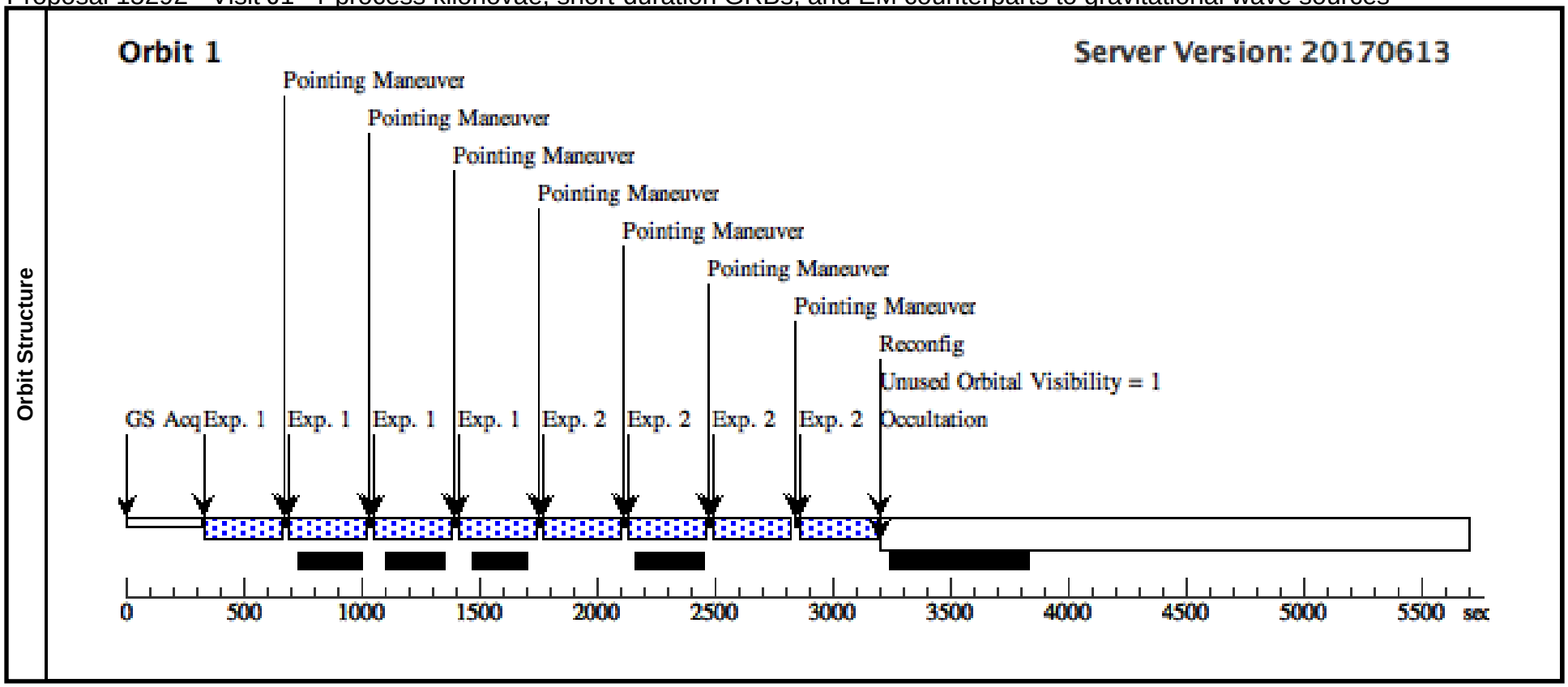
#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1), (2)

Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F105W	SAMP-SEQ=STEP100; NSAMP=9		Pattern 1, Exps 1-1 in Visit J1 (1)	299.231323 Secs (1196.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F140W	SAMP-SEQ=STEP100; NSAMP=9		Pattern 1, Exps 2-2 in Visit J1 (1)	299.231323 Secs (1196.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20170613
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Reconfig
Unused Orbital Visibility = 1
GS Acq
Exp. 1
Exp. 1
Exp. 1
Exp. 1
Exp. 2
Exp. 2
Exp. 2
Exp. 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 15292, J2 (26) Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

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), (2)

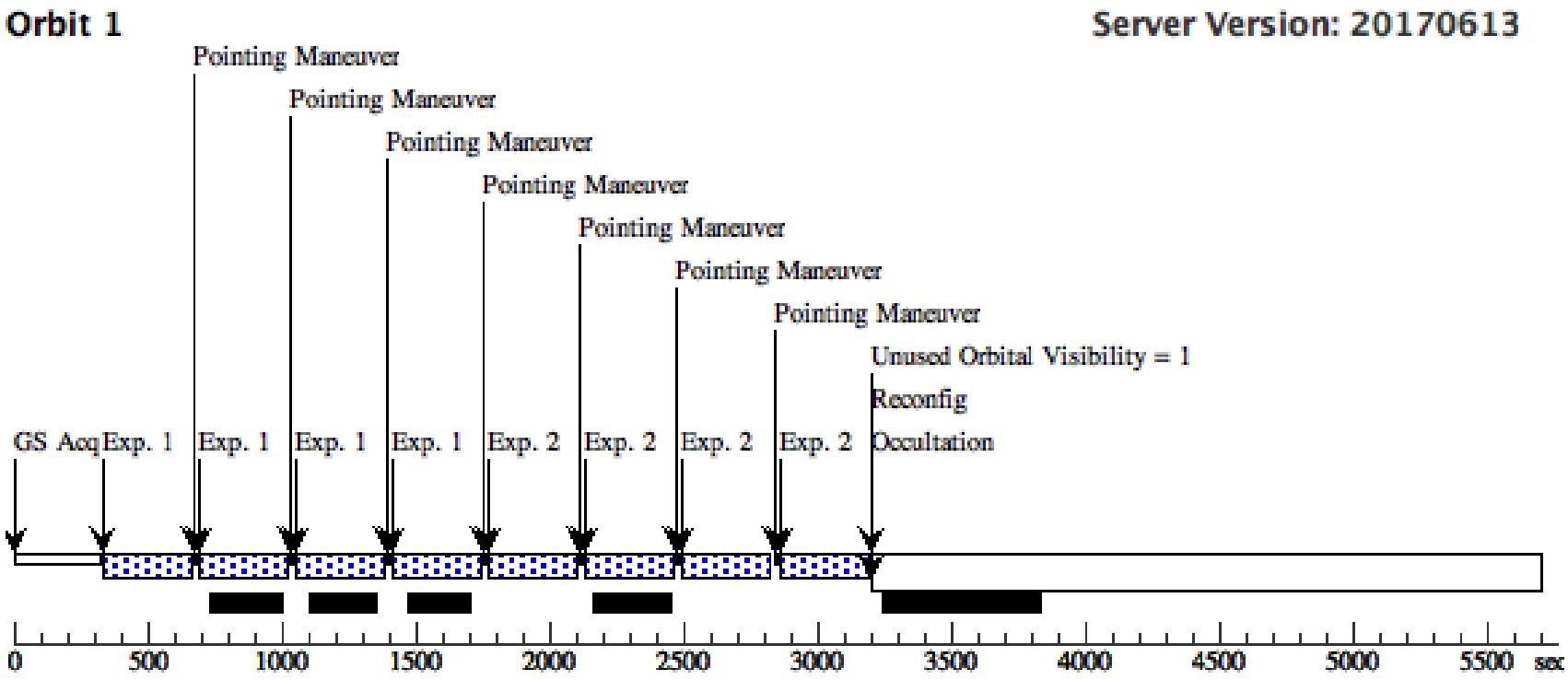
Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F105W	SAMP-SEQ=STEP100; NSAMP=9		Pattern 1, Exps 1-1 in J2 (26) (1)	299.231323 Secs (1196.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP100; NSAMP=9		Pattern 1, Exps 2-2 in J2 (26) (1)	299.231323 Secs (1196.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15292, Visit J3 Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

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)

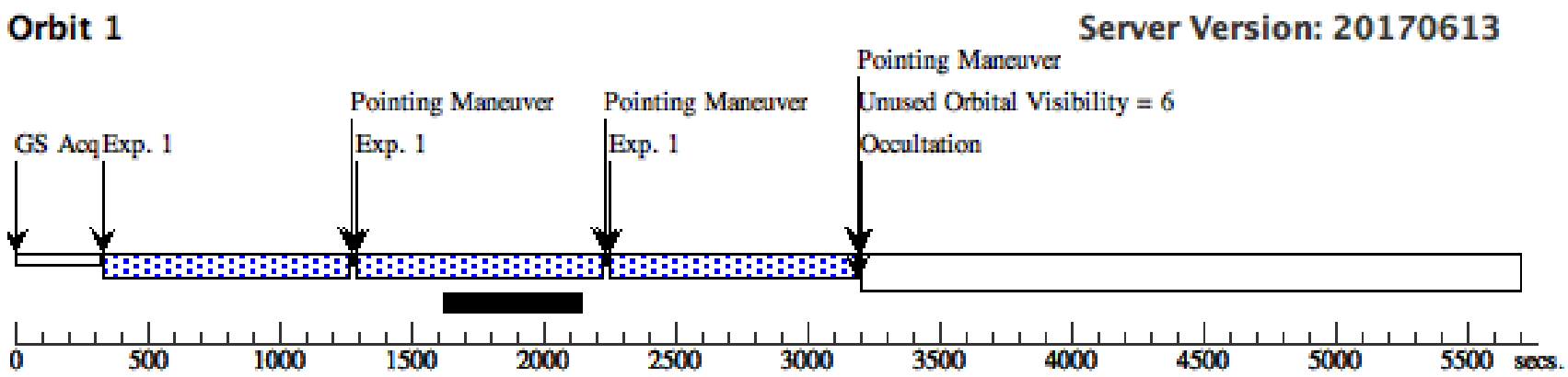
Generic Targets

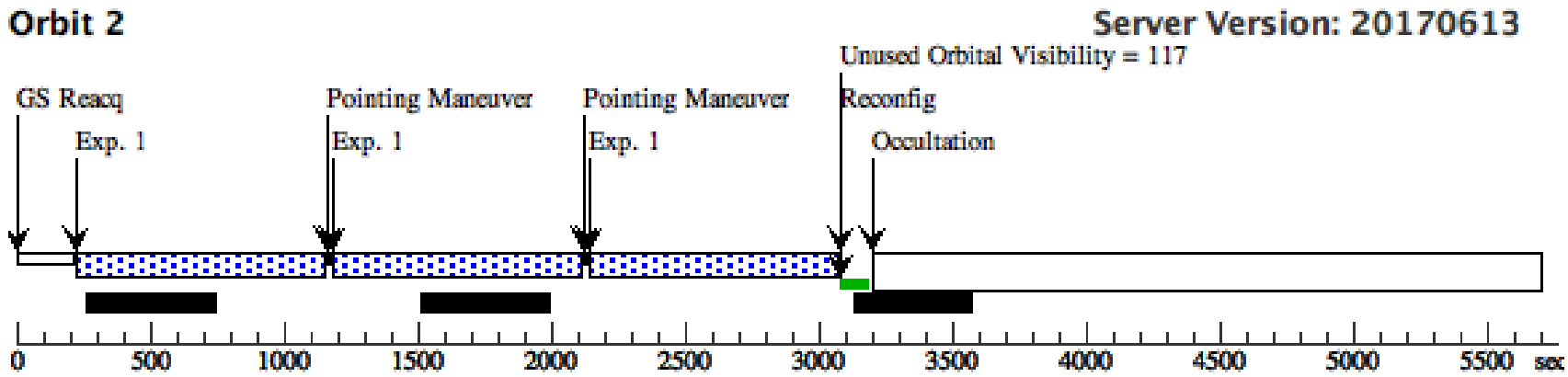
#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F105W	SAMP-SEQ=STEP100; NSAMP=15		Pattern 2, Exps 1-1 in Visit J3 (2)	899.233261 Secs (5395.4 Secs)	
								[==>(Pattern 1,1)] *[==>(Pattern 1,2)]* *[==>(Pattern 1,3)]*	***[1]***
								[==>(Pattern 2,1)] *[==>(Pattern 2,2)]* *[==>(Pattern 2,3)]*	***[2]***

Orbit Structure





Visit

Proposal 15292, Visit J4 Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

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)

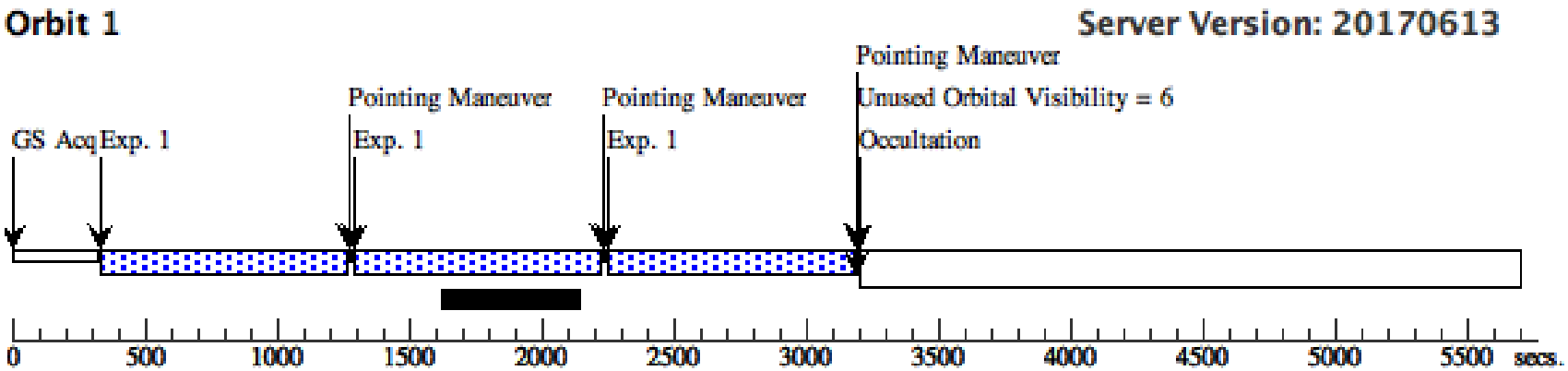
Generic Targets

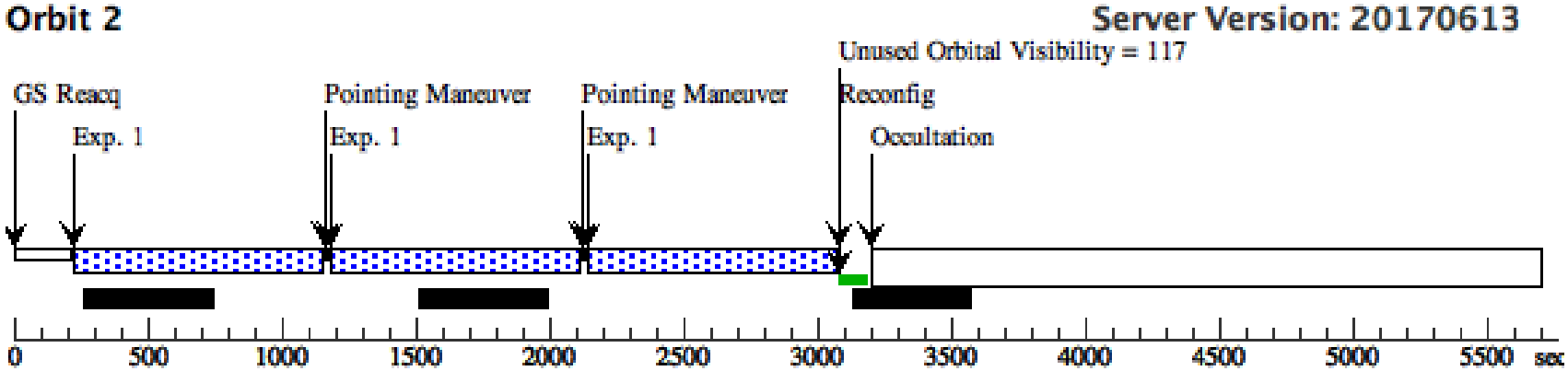
#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=STEP100; NSAMP=15		Pattern 2, Exps 1-1 in Visit J4 (2)	899.233261 Secs (5395.4 Secs)	
								[==>(Pattern 1,1)] *[==>(Pattern 1,2)]* *[==>(Pattern 1,3)]*	***[1]***
								[==>(Pattern 2,1)] *[==>(Pattern 2,2)]* *[==>(Pattern 2,3)]*	***[2]***

Orbit Structure





Visit

Proposal 15292, Visit J5 Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

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)

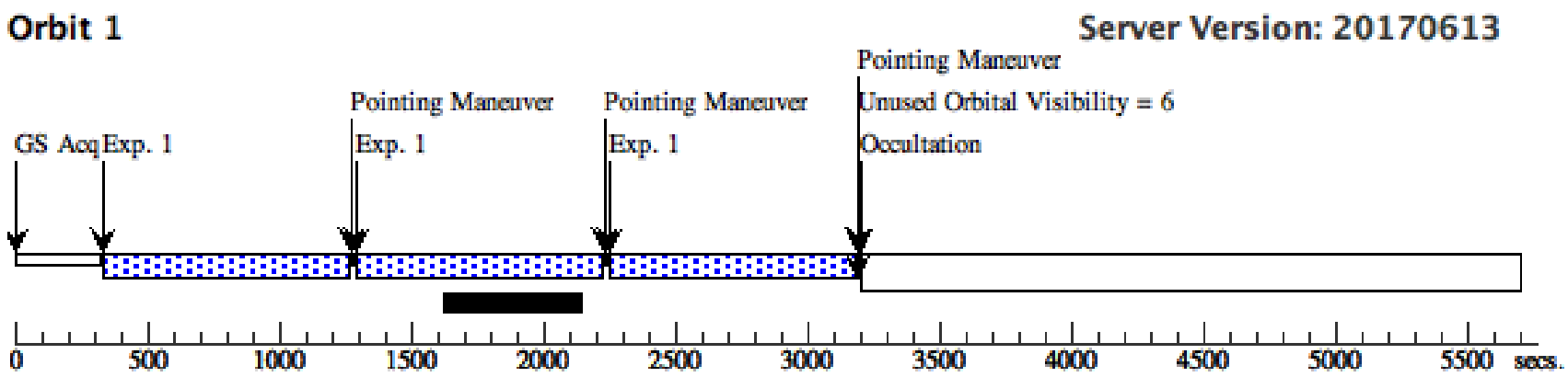
Generic Targets

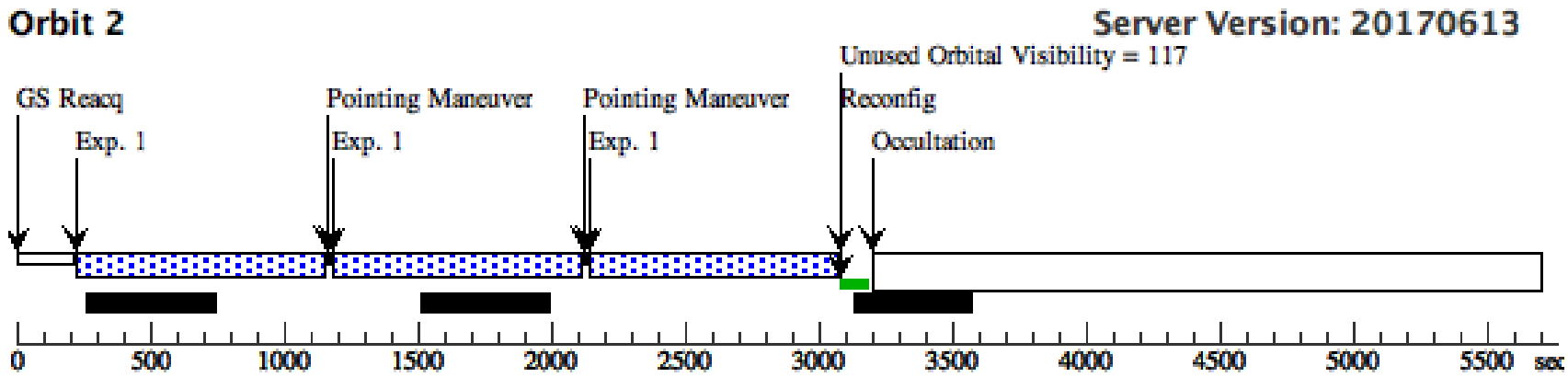
#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F140W	SAMP-SEQ=STEP100; NSAMP=15		Pattern 2, Exps 1-1 in Visit J5 (2)	899.233261 Secs (5395.4 Secs)	
								[==>(Pattern 1,1)] *[==>(Pattern 1,2)]* *[==>(Pattern 1,3)]*	***[1]***
								[==>(Pattern 2,1)] *[==>(Pattern 2,2)]* *[==>(Pattern 2,3)]*	***[2]***

Orbit Structure





Visit

Proposal 15292, Visit J6 Thu Jul 20 17:26:01 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

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)

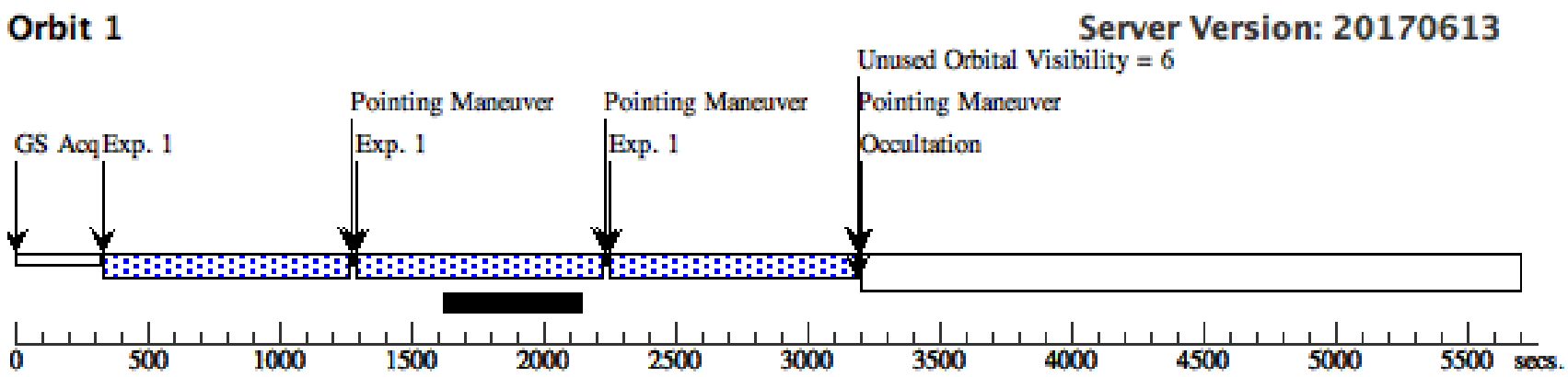
Generic Targets

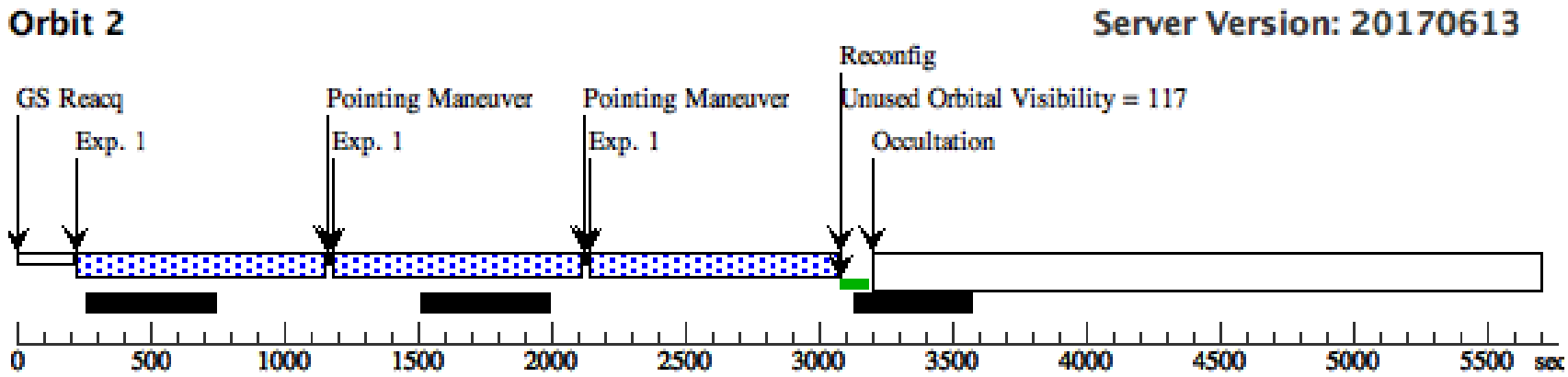
#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP100; NSAMP=15		Pattern 2, Exps 1-1 in Visit J6 (2)	899.233261 Secs (5395.4 Secs)	
								[==>(Pattern 1,1)] *[==>(Pattern 1,2)]* *[==>(Pattern 1,3)]*	***[1]***
								[==>(Pattern 2,1)] *[==>(Pattern 2,2)]* *[==>(Pattern 2,3)]*	***[2]***

Orbit Structure





Visit

Proposal 15292, Visit J7 Thu Jul 20 17:26:02 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

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)

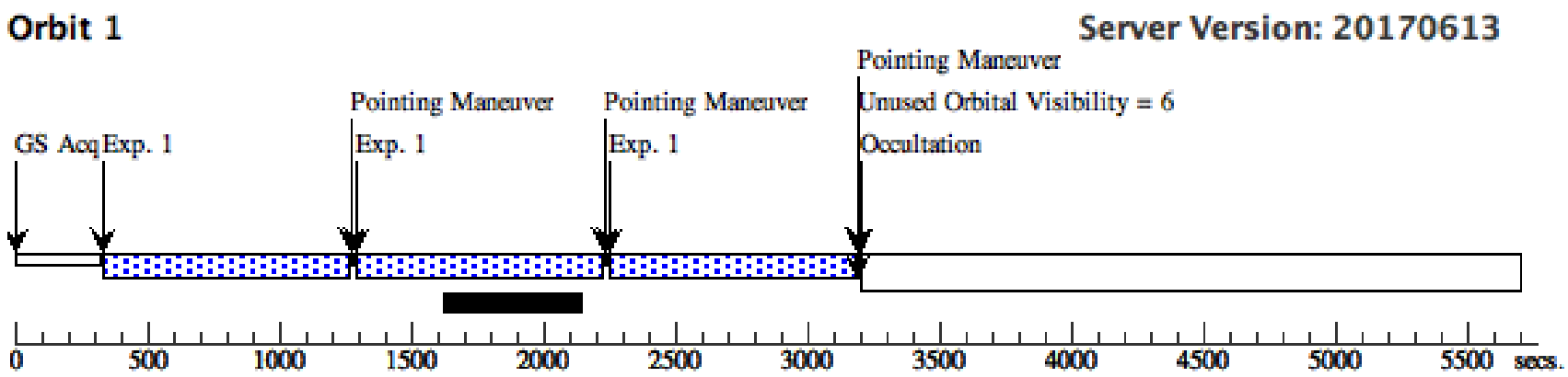
Generic Targets

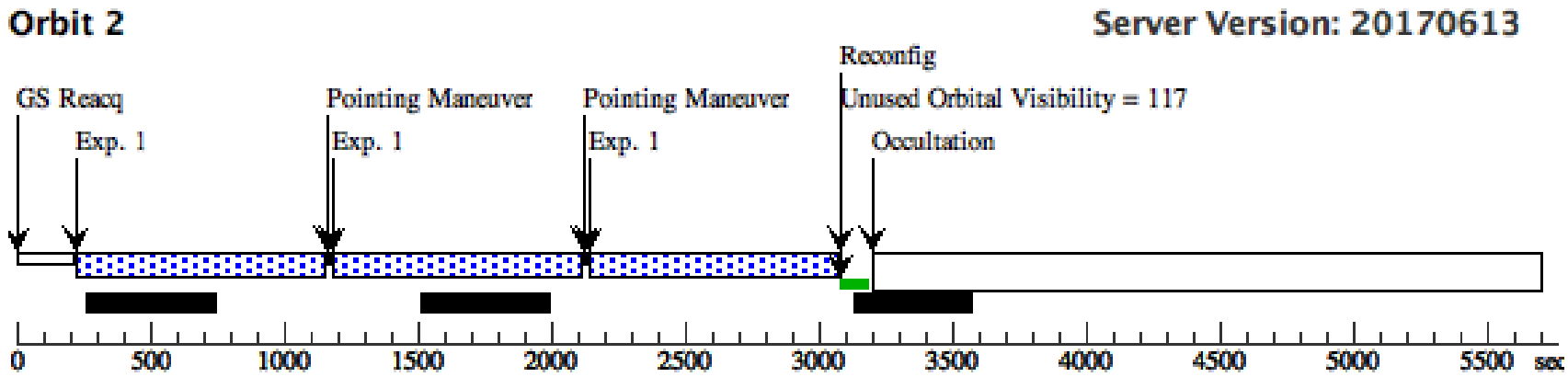
#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F110W	SAMP-SEQ=STEP100; NSAMP=15		Pattern 2, Exps 1-1 in Visit J7 (2)	899.233261 Secs (5395.4 Secs)	
								[==>(Pattern 1,1)] *[==>(Pattern 1,2)]* *[==>(Pattern 1,3)]*	***[1]***
								[==>(Pattern 2,1)] *[==>(Pattern 2,2)]* *[==>(Pattern 2,3)]*	***[2]***

Orbit Structure





Visit

Proposal 15292, Visit J8 Thu Jul 20 17:26:02 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

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)

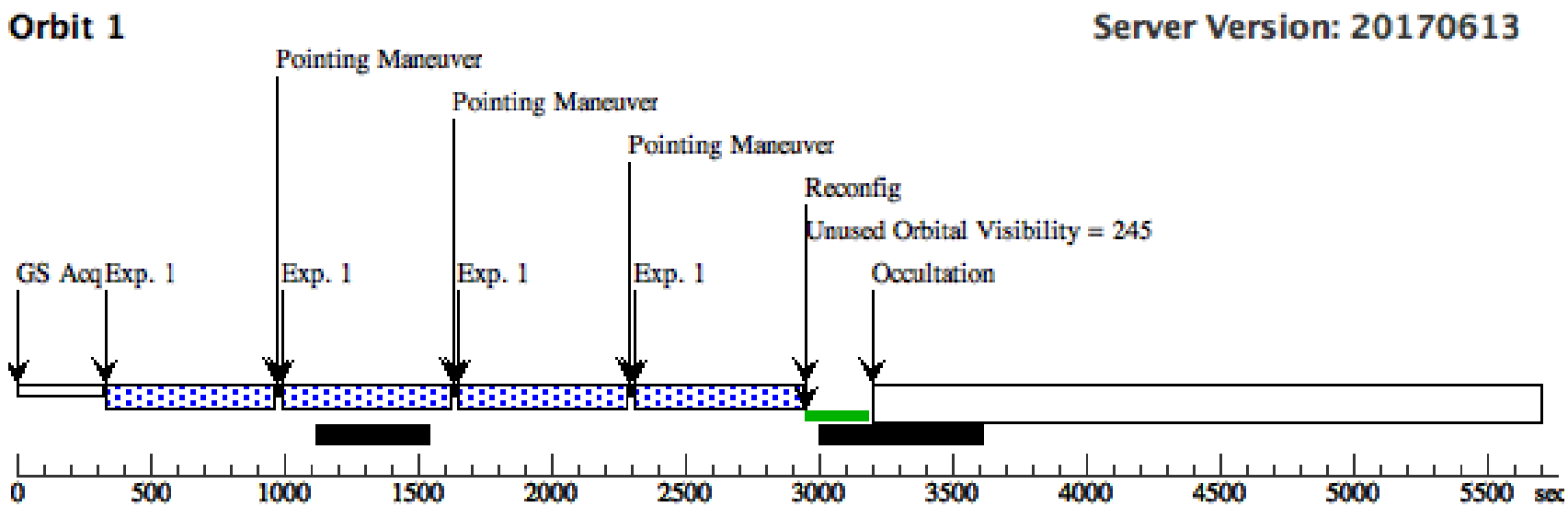
Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F105W	SAMP-SEQ=STEP100; NSAMP=12		Pattern 1, Exps 1-1 in Visit J8 (1)	599.232292 Secs (2396.929 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15292, Visit J9 Thu Jul 20 17:26:02 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

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)

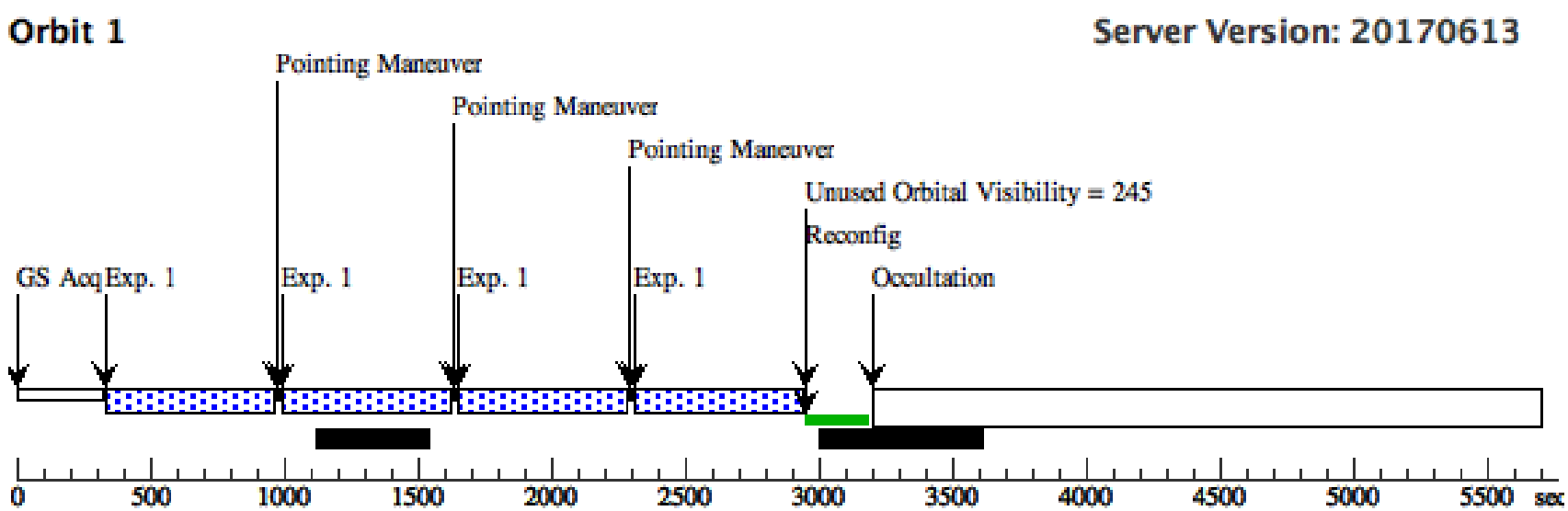
Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=STEP100; NSAMP=12		Pattern 1, Exps 1-1 in Visit J9 (1)	599.232292 Secs (2396.929 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15292, Visit JA Thu Jul 20 17:26:02 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

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)

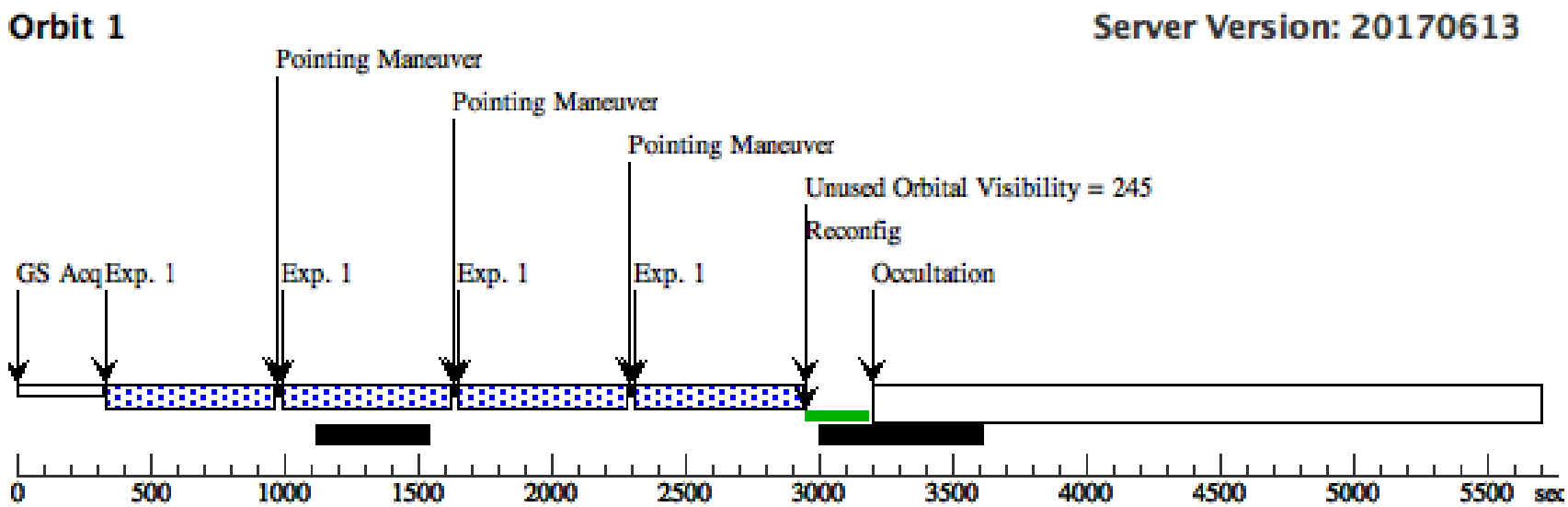
Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F140W	SAMP-SEQ=STEP100; NSAMP=12		Pattern 1, Exps 1-1 in Visit JA (1)	599.232292 Secs (2396.929 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15292, Visit JB Thu Jul 20 17:26:02 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

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)

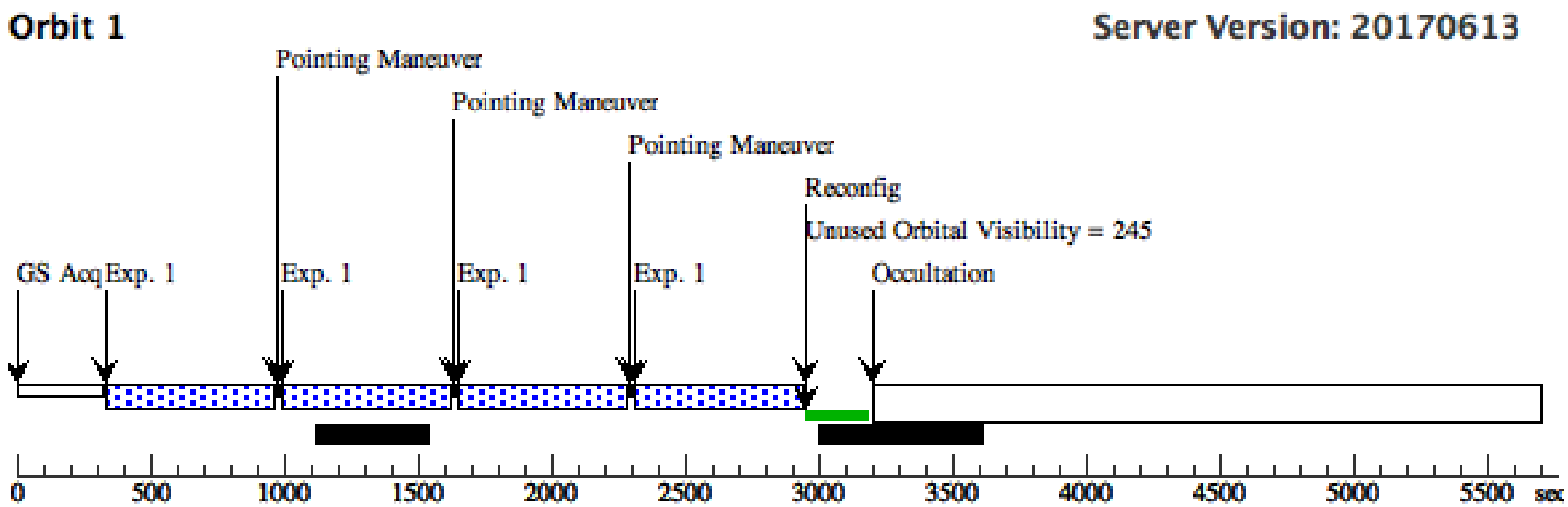
Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP100; NSAMP=12		Pattern 1, Exps 1-1 in Visit JB (1)	599.232292 Secs (2396.929 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15292, Visit JC Thu Jul 20 17:26:02 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

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)

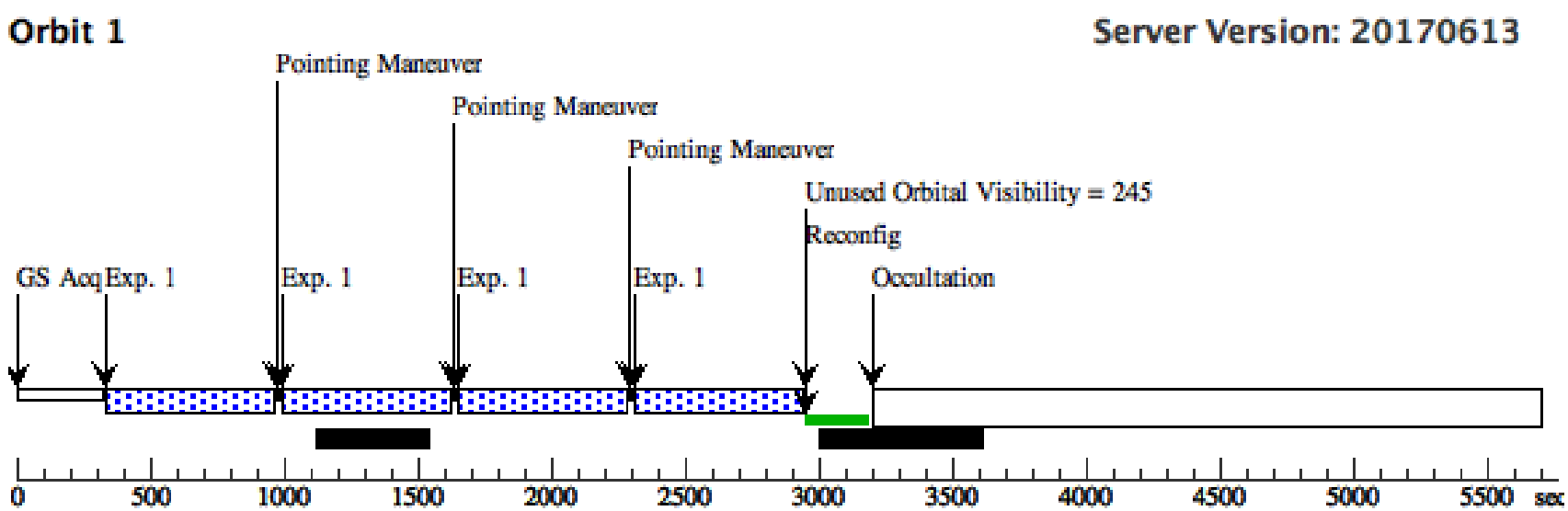
Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F110W	SAMP-SEQ=STEP100; NSAMP=12		Pattern 1, Exps 1-1 in Visit JC (1)	599.232292 Secs (2396.929 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15292, Visit P1 Thu Jul 20 17:26:02 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

Patterns

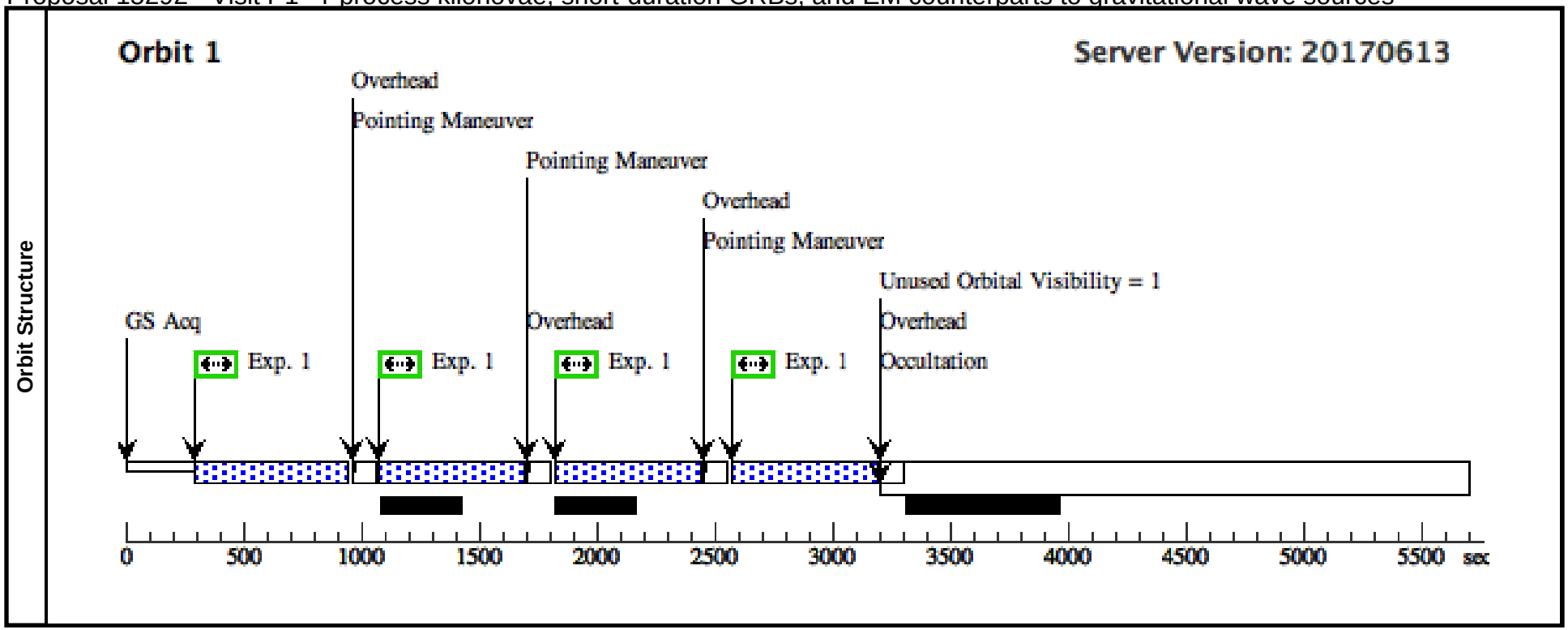
#	Primary Pattern		Secondary Pattern	Exposures
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1)

Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/UVIS, ACCUM, UVIS2	F475W		POS TARG -60,-30	Pattern 3, Exps 1-1 in Visit P1 (3)	700 Secs (2476 Secs) *[==>619.0 Secs (Pattern 1)]* *[==>619.0 Secs (Pattern 2)]* *[==>619.0 Secs (Pattern 3)]* *[==>619.0 Secs (Pattern 4)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20170613
Overhead
Pointing Maneuver
Pointing Maneuver
Overhead
Pointing Maneuver
Unused Orbital Visibility = 1
GS Acq
Overhead
Overhead
Occultation
Exp. 1
Exp. 1
Exp. 1
Exp. 1
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 15292, Visit P2 Thu Jul 20 17:26:02 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

Patterns

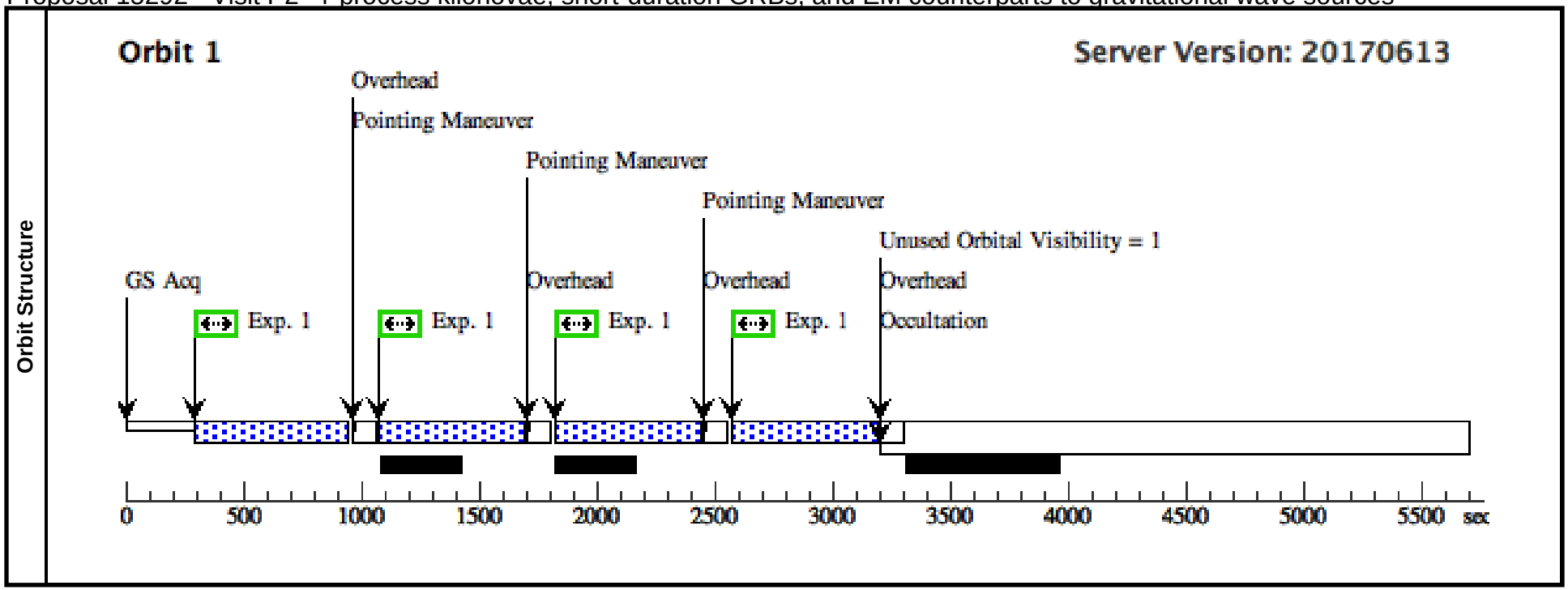
#	Primary Pattern		Secondary Pattern	Exposures
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1)

Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/UVIS, ACCUM, UVIS2	F606W		POS TARG -60,-30	Pattern 3, Exps 1-1 in Visit P2 (3)	700 Secs (2476 Secs) *[==>619.0 Secs (Pattern 1)]* *[==>619.0 Secs (Pattern 2)]* *[==>619.0 Secs (Pattern 3)]* *[==>619.0 Secs (Pattern 4)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20170613
Overhead
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Unused Orbital Visibility = 1
GS Acq
Overhead
Overhead
Overhead
Occultation
Exp. 1
Exp. 1
Exp. 1
Exp. 1
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 15292, Visit P3 Thu Jul 20 17:26:02 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

Patterns

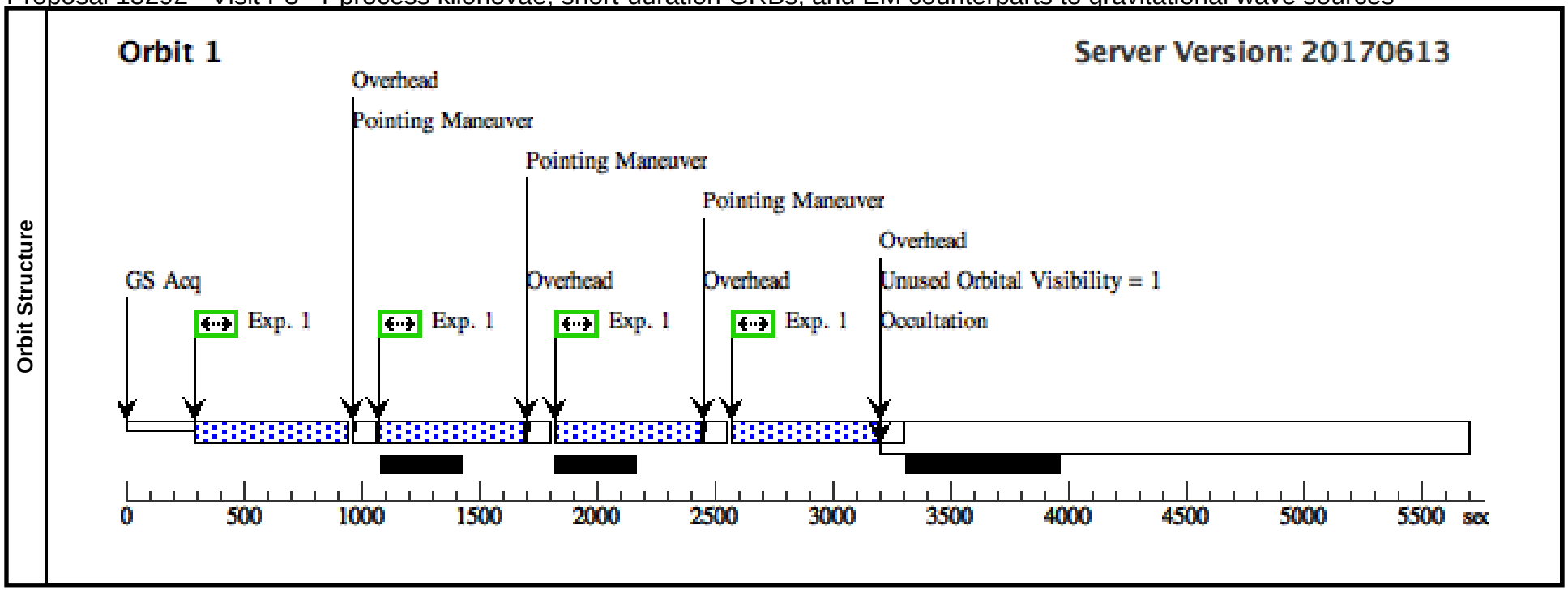
#	Primary Pattern		Secondary Pattern	Exposures
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1)

Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/UVIS, ACCUM, UVIS2	F814W		POS TARG -60,-30	Pattern 3, Exps 1-1 in Visit P3 (3)	700 Secs (2476 Secs) *[==>619.0 Secs (Pattern 1)]* *[==>619.0 Secs (Pattern 2)]* *[==>619.0 Secs (Pattern 3)]* *[==>619.0 Secs (Pattern 4)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20170613
Overhead
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Overhead
GS Acq
Overhead
Overhead
Unused Orbital Visibility = 1
Exp. 1
Exp. 1
Exp. 1
Exp. 1
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 15292, Visit P4 Thu Jul 20 17:26:02 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

Patterns

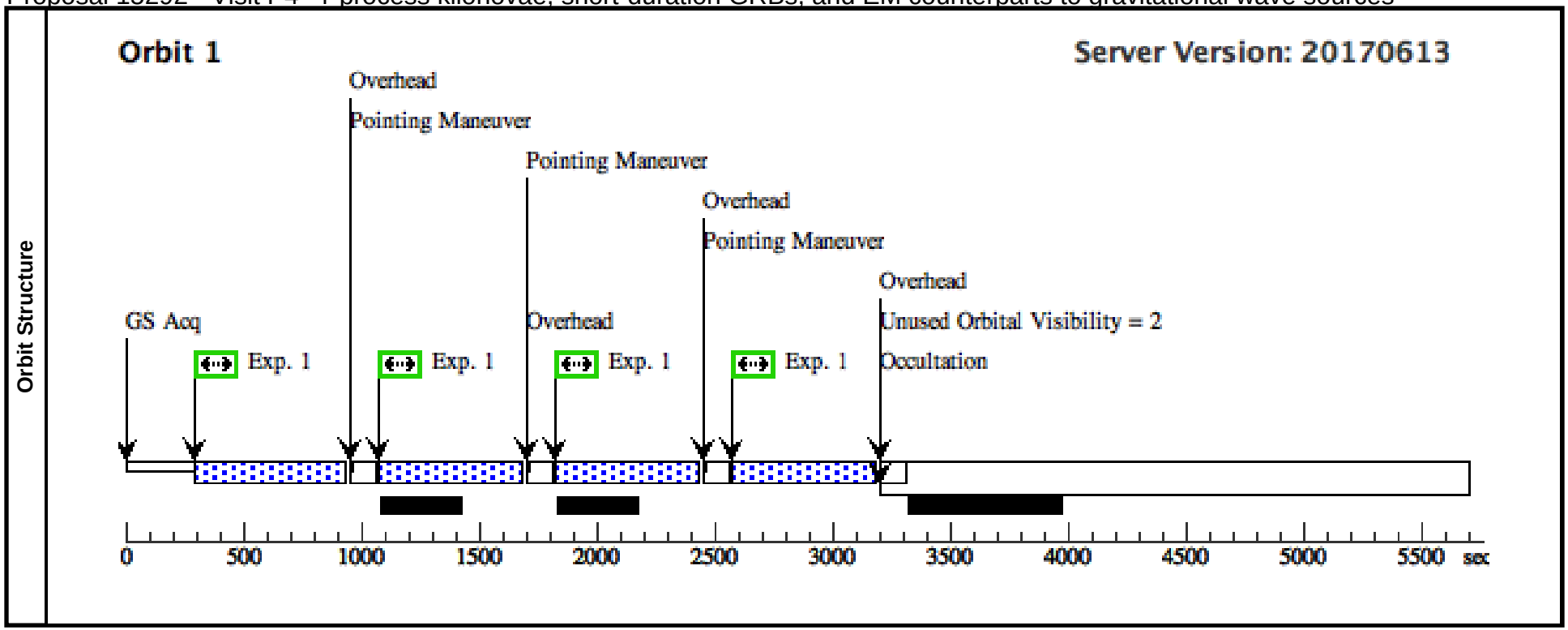
#	Primary Pattern		Secondary Pattern	Exposures
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1)

Generic Targets

#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/UVIS, ACCUM, UVIS2	F850LP	FLASH=7	POS TARG -60,-30	Pattern 3, Exps 1-1 in Visit P4 (3)	700 Secs (2460 Secs) *[==>615.0 Secs (Pattern 1)]* *[==>615.0 Secs (Pattern 2)]* *[==>615.0 Secs (Pattern 3)]* *[==>615.0 Secs (Pattern 4)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20170613
Overhead
Pointing Maneuver
Pointing Maneuver
Overhead
Pointing Maneuver
Overhead
Unused Orbital Visibility = 2
Occultation
GS Acq
Overhead
Exp. 1
Exp. 1
Exp. 1
Exp. 1
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 15292, Visit C1 Thu Jul 20 17:26:02 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(4)	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)
(5)	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), (3)

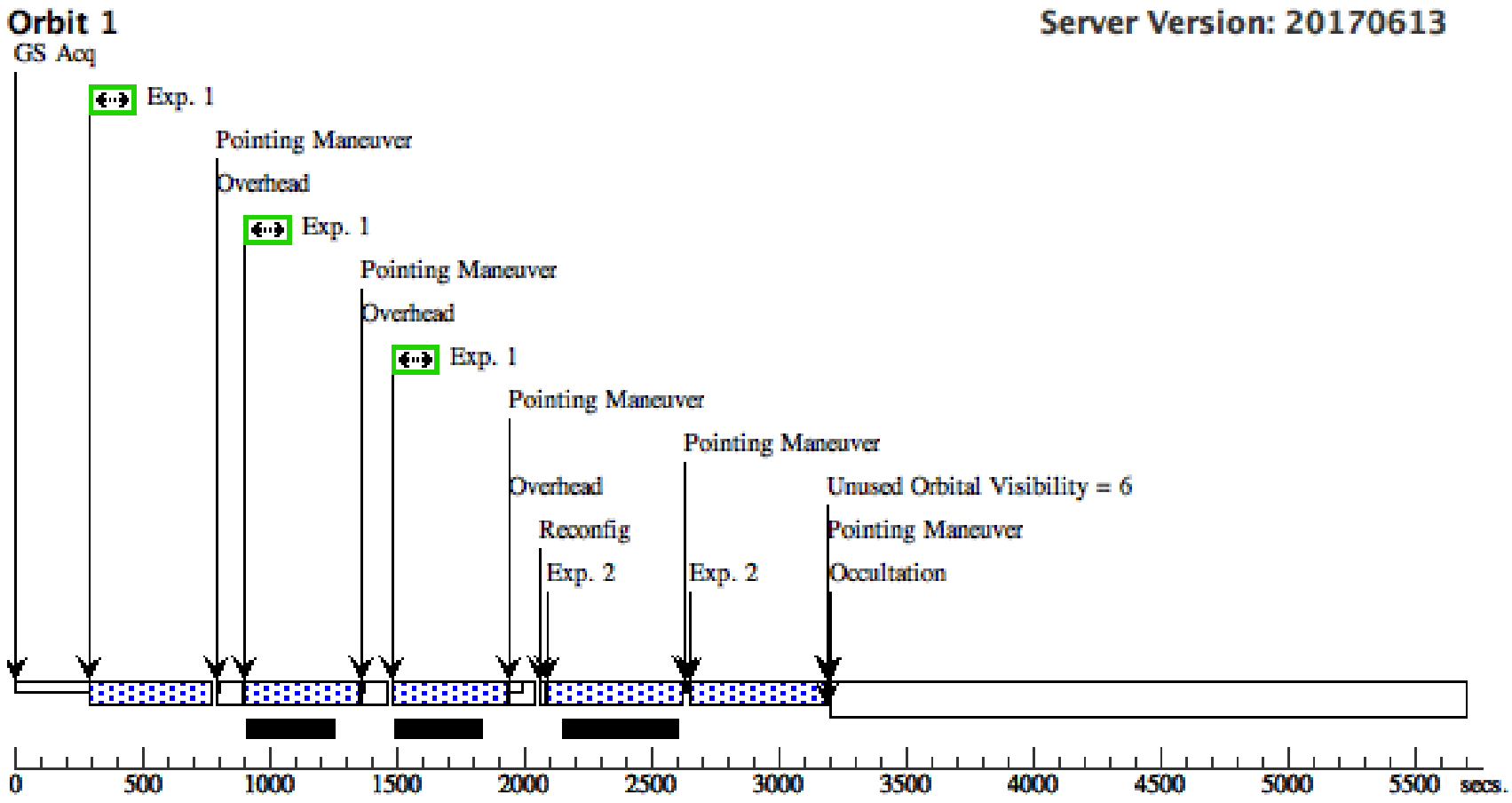
Generic Targets

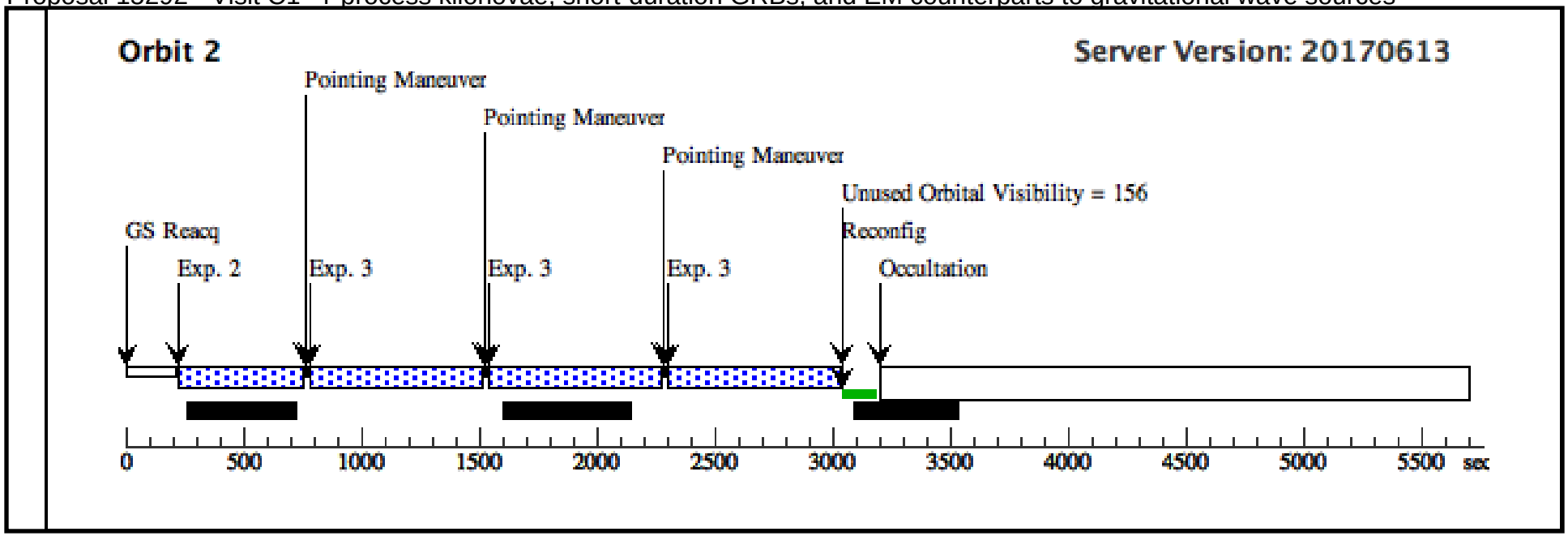
#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/UVIS, ACCUM, UVIS2	F606W		POS TARG -60,-30	Pattern 4, Exps 1-1 in Visit C1 (4)	450 Secs (1350 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]*	***[1]***
2		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F105W	SAMP-SEQ=STEP100; NSAMP=11		Pattern 5, Exps 2-2 in Visit C1 (5)	499.231969 Secs (1497.696 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
								[==>(Pattern 3)]	***[2]***
3		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=13; SAMP-SEQ=STEP100		Pattern 5, Exps 3-3 in Visit C1 (5)	699.232615 Secs (2097.698 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20170613
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Unused Orbital Visibility = 156
GS Reacq
Reconfig
Exp. 2
Exp. 3
Exp. 3
Exp. 3
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 15292, Visit D1 Thu Jul 20 17:26:02 GMT 2017

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: ON HOLD

On Hold Comments: Awaiting SGRB trigger

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(4)	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)
(5)	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), (3)

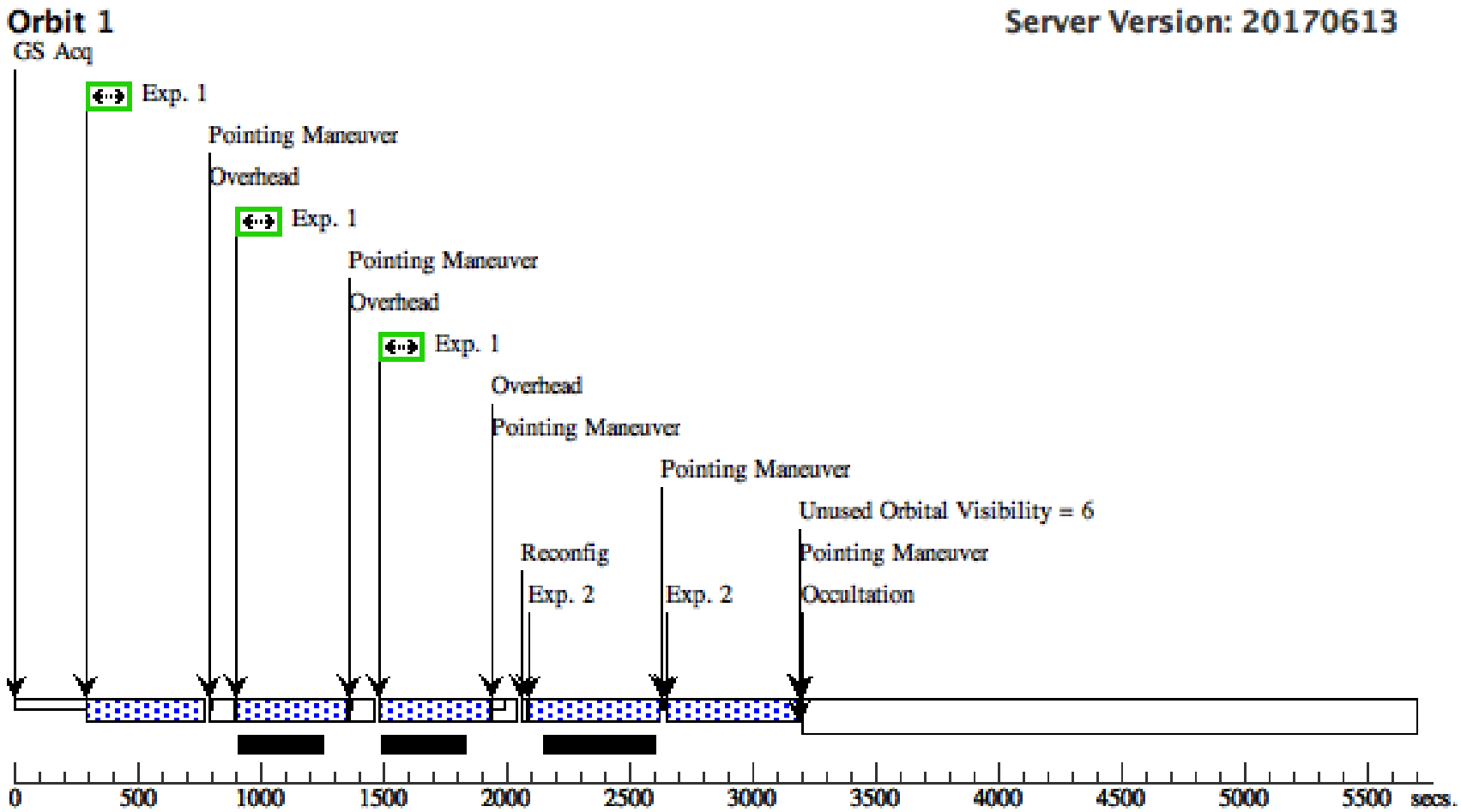
Generic Targets

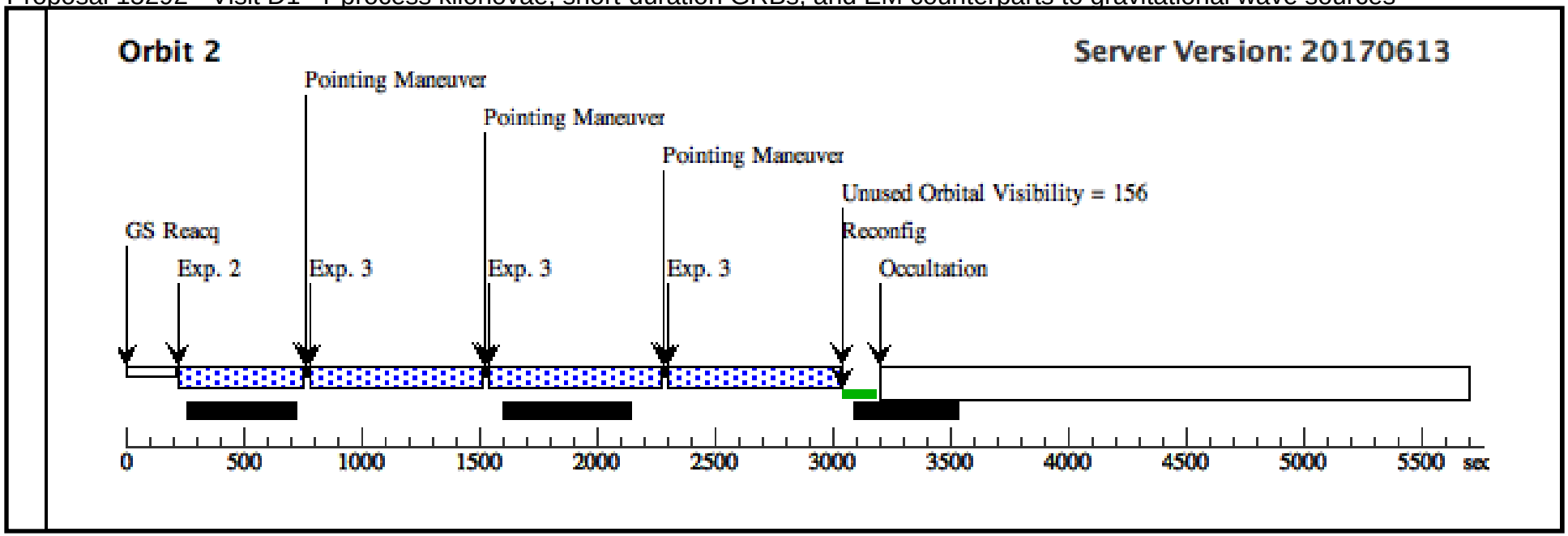
#	Name	Criteria	Description
(1)	SGRB1	shortGRB z<0.4	

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SGRB1	WFC3/UVIS, ACCUM, UVIS2	F606W		POS TARG -60,-30	Pattern 4, Exps 1-1 in Visit D1 (4)	450 Secs (1350 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]*	***[1]***
2		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F105W	SAMP-SEQ=STEP100; NSAMP=11		Pattern 5, Exps 2-2 in Visit D1 (5)	499.231969 Secs (1497.696 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
								[==>(Pattern 3)]	***[2]***
3		(1) SGRB1	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=13; SAMP-SEQ=STEP100		Pattern 5, Exps 3-3 in Visit D1 (5)	699.232615 Secs (2097.698 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20170613
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Unused Orbital Visibility = 156
GS Reacq
Reconfig
Exp. 2
Exp. 3
Exp. 3
Exp. 3
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec