



17492 - Zooming in on the locations of short gamma-ray bursts

Cycle: 31, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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Dr. Taka Sakamoto (CoI)	Aoyama Gakuin University

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>
01	(1) GRB081226A	WFC3/IR	1	10-Jun-2024 14:00:29.0	yes
02	(2) GRB230906A	WFC3/IR	1	10-Jun-2024 14:00:29.0	yes
52	(2) GRB230906A	WFC3/IR	1	10-Jun-2024 14:00:30.0	yes
03	(3) GRB120804A-EE	WFC3/IR	1	10-Jun-2024 14:00:30.0	yes
04	(4) GRB170428A	WFC3/IR	1	10-Jun-2024 14:00:31.0	yes
05	(14) GRB180618A-EE	WFC3/IR	1	10-Jun-2024 14:00:31.0	yes
06	(15) GRB181123B-EE	WFC3/IR	1	10-Jun-2024 14:00:31.0	yes
07	(16) GRB201221D	WFC3/IR	1	10-Jun-2024 14:00:32.0	yes
08	(17) GRB210323A	WFC3/IR	1	10-Jun-2024 14:00:32.0	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>
09	(18) GRB210726A	WFC3/IR	1	10-Jun-2024 14:00:33.0	yes
10	(20) GRB211023B	WFC3/IR	1	10-Jun-2024 14:00:33.0	yes
11	(21) GRB220831A	WFC3/IR	1	10-Jun-2024 14:00:33.0	yes
12	(22) GRB221120A	WFC3/IR	1	10-Jun-2024 14:00:34.0	yes
62	(22) GRB221120A	WFC3/IR	1	10-Jun-2024 14:00:34.0	yes
13	(23) GRB180727A	WFC3/IR	1	10-Jun-2024 14:00:35.0	yes
63	(23) GRB180727A	WFC3/IR	1	10-Jun-2024 14:00:35.0	yes
14	(6) GRB160408A	WFC3/IR	2	10-Jun-2024 14:00:35.0	yes
15	(7) GRB160410A-EE	WFC3/IR	2	10-Jun-2024 14:00:36.0	yes
16	(8) GRB160411A	WFC3/IR	2	10-Jun-2024 14:00:36.0	yes
17	(9) GRB160601A	WFC3/IR	2	10-Jun-2024 14:00:37.0	yes
18	(10) GRB160927A	WFC3/IR	2	10-Jun-2024 14:00:38.0	yes
19	(11) GRB161001A	WFC3/IR	2	10-Jun-2024 14:00:38.0	yes
20	(12) GRB161004A	WFC3/IR	2	10-Jun-2024 14:00:38.0	yes
21	(5) GRB140930B	WFC3/IR	2	10-Jun-2024 14:00:39.0	yes
22	(13) GRB170728A	WFC3/IR	2	10-Jun-2024 14:00:40.0	yes

34 Total Orbits Used

ABSTRACT

The study of short duration gamma-ray bursts (sGRBs) and their host galaxies provide a unique view of the environments of gravitational wave sources. The locations of sGRBs within their hosts is the strongest constraint on fundamental properties of the progenitor systems (e.g. kick velocity, time delay), with important implications for binary stellar evolution, galactic chemical enrichment, and the expected Advanced LIGO and Virgo detection rate. HST observations of sGRBs host galaxies are the benchmark dataset against which models of neutron star (NS) mergers are tested. This dataset, affected by small number statistics in the past, is now expanding, allowing us to consider more sophisticated scenarios, such as multiple channels of binary formation and different progenitor systems. However, targeted observations of sGRBs are introducing complex selection biases. In order to mitigate these effects, we propose a public survey of well-localized sGRBs to build a high-quality homogeneous sample of sGRB

locations and environments. The proposed observations, together with existing archival HST data and an extensive ground-based campaign, would form a legacy dataset for the study of compact binary mergers and their diverse evolutionary pathways. In addition, sGRBs with no coincident host galaxy in these HST images constitute excellent targets for future JWST observations.

OBSERVING DESCRIPTION

This program will observe the locations of 22 short gamma-ray bursts with the WFC3/IR camera in the F160W filter in order to obtain high resolution, sensitive, infrared observations of their host galaxies. These observations will double the sample of sGRB host galaxies observed with HST and reveal accurately their locations with respect to the half-light radii of their host galaxies. In addition, we target 9 events that are observationally hostless even in deep ground based observations. These 9 targets will receive 2 orbits in F160W to search for faint underlying host galaxies. The program will use 31 orbits - 1 orbit x 13 targets which already have known host galaxies and 2 orbits x 9 targets which lack a host galaxy.

Proposal 17492 - GRB 081226A (01) - Zooming in on the locations of short gamma-ray bursts

Mon Jun 10 18:00:40 GMT 2024

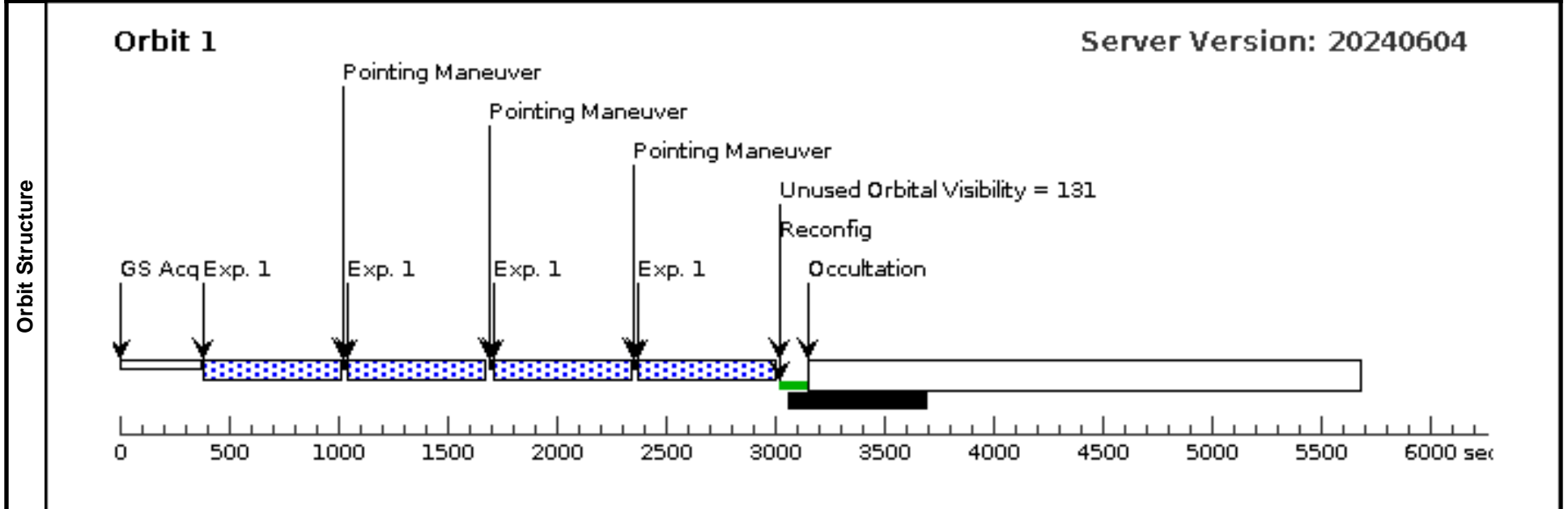
Visit	Proposal 17492, GRB 081226A (01), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: No orientation constraints required.</i>		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	GRB081226A	RA: 08 02 0.4500 (120.5018750d) Dec: -69 01 49.50 (-69.03042d) Equinox: J2000	Epoch of Position: 2015.5	V=25.5	Reference Frame: J2000

Comments: Category=GALAXY Description=[SPIRAL] Extended=YES

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) GRB081226A	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7			Pattern 1, Exps 1-1 in GRB 081226A (01) (1)	602.934229 Secs (2411.737 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 17492 - GRB 230906A (02) - Zooming in on the locations of short gamma-ray bursts

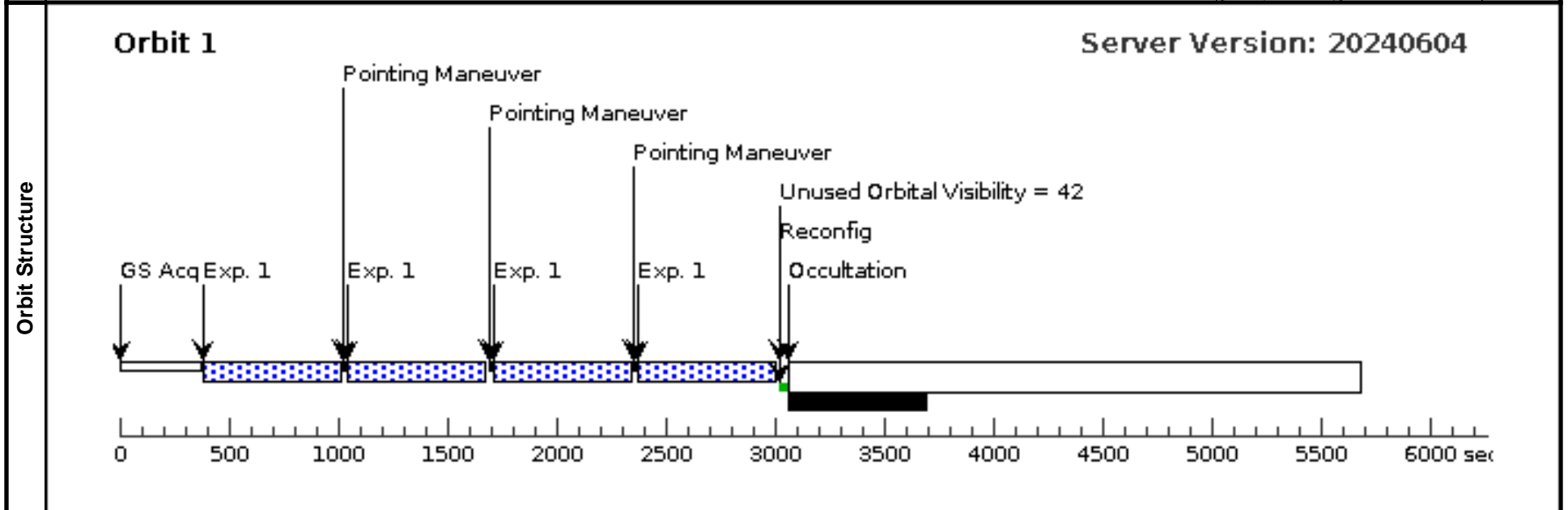
Mon Jun 10 18:00:40 GMT 2024

Visit	Proposal 17492, GRB 230906A (02), failed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)		

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

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	GRB230906A	RA: 05 19 1.5200 (79.7563333d) Dec: -47 53 32.66 (-47.89241d) Equinox: J2000	Epoch of Position: 2015.5	V=25.5	Reference Frame: J2000
	<i>Comments:</i> Category=GALAXY Description=[HIGH REDSHIFT GALAXY] Extended=YES					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) GRB230906A	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Pattern 1, Exps 1-1 in GRB 230906A (02) (1)	602.934229 Secs (2411.737 Secs)	
									[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 17492 - GRB 230906A (52) - Zooming in on the locations of short gamma-ray bursts

Mon Jun 10 18:00:41 GMT 2024

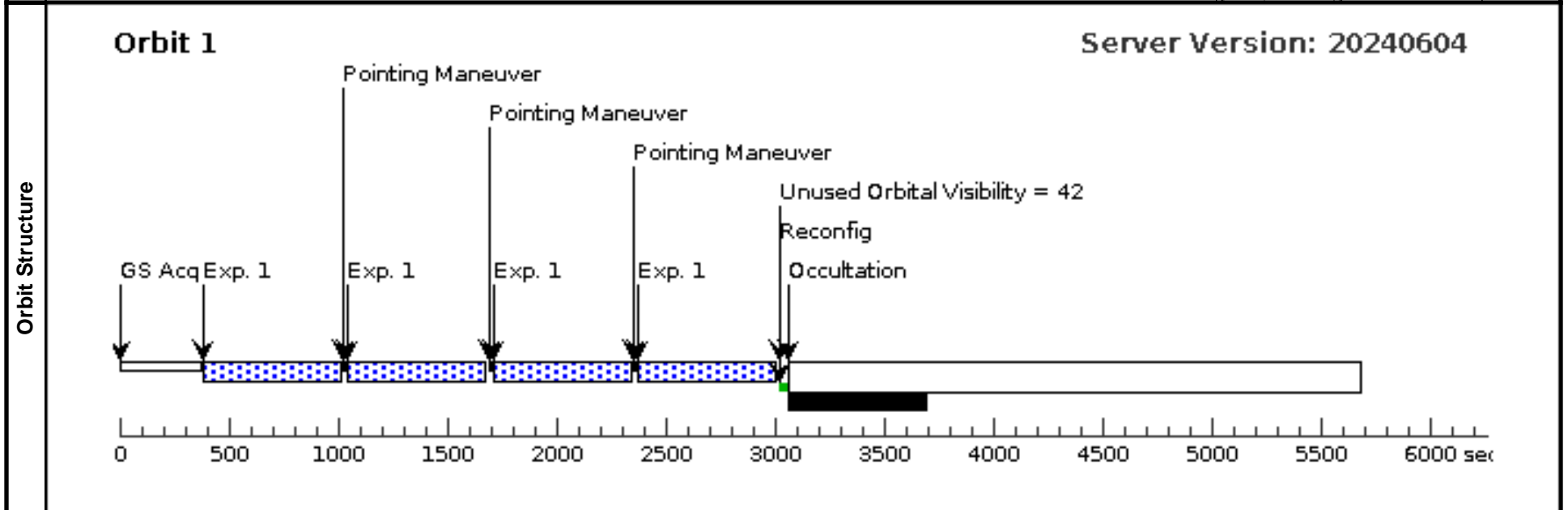
Visit	Proposal 17492, GRB 230906A (52), completed		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: (none)		

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

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	GRB230906A	RA: 05 19 1.5200 (79.7563333d) Dec: -47 53 32.66 (-47.89241d) Equinox: J2000	Epoch of Position: 2015.5	V=25.5	Reference Frame: J2000

Comments:
 Category=GALAXY
 Description=[HIGH REDSHIFT GALAXY]
 Extended=YES

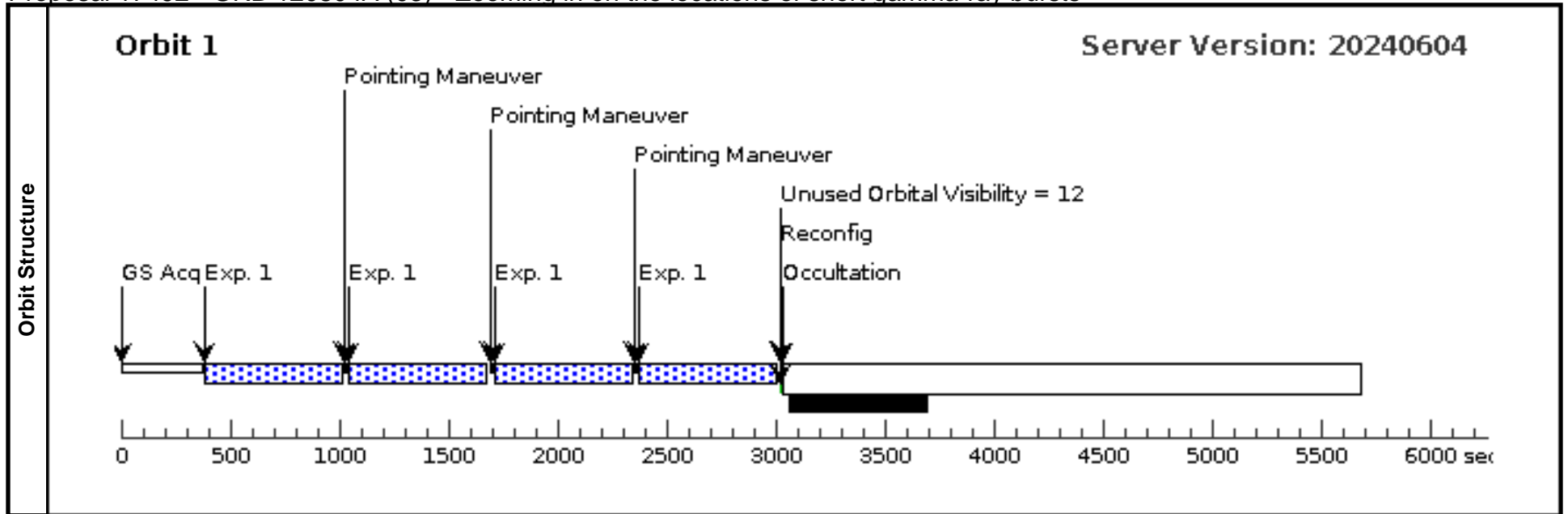
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) GRB230906A	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7			Pattern 1, Exps 1-1 in GRB 230906A (52) (1)	602.934229 Secs (2411.737 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 17492 - GRB 120804A (03) - Zooming in on the locations of short gamma-ray bursts

Mon Jun 10 18:00:41 GMT 2024

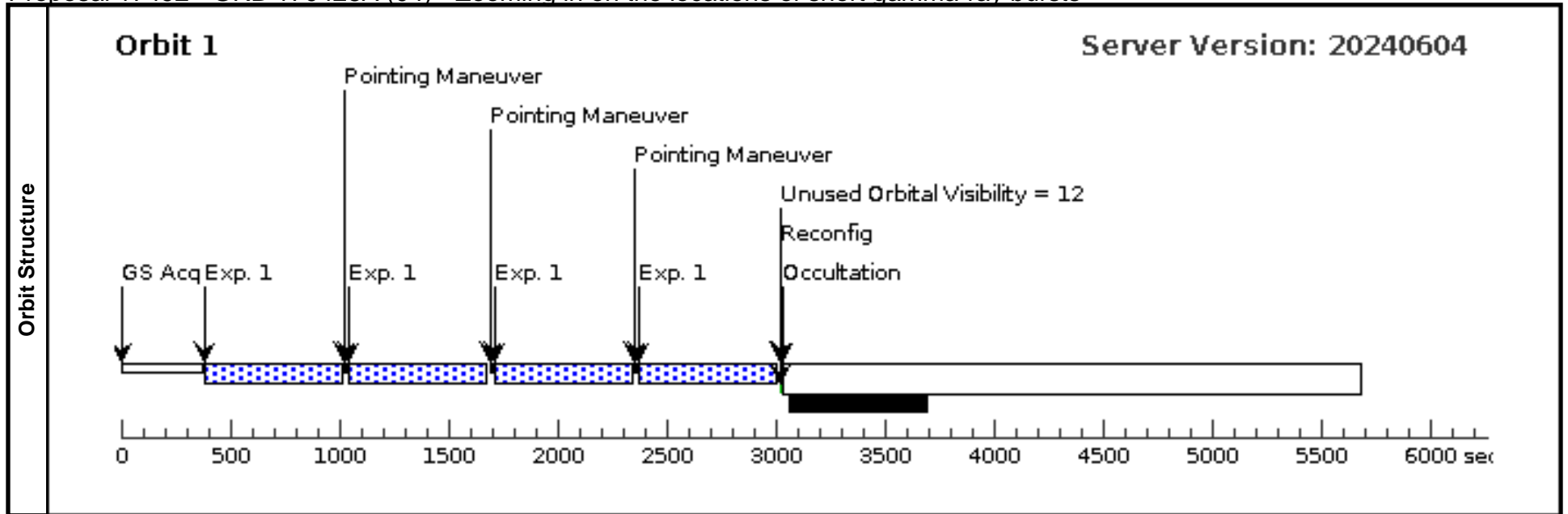
Visit	Proposal 17492, GRB 120804A (03), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 0D TO 24 D; ORIENT 70D TO 114 D; ORIENT 160D TO 204 D; ORIENT 250D TO 294 D; ORIENT 340D TO 359 D <i>Comments: There are multiple bright stars within 15-30" of the target position; the closest star and the faintest is at 11" and has r~17.5 AB mag and J~17 AB mag. The position angles are PA = 50 (closest), 150, 214 (brightest).; essentially the same as PA =34 - 60 being excluded angles that would lead to diffraction spikes. Due to these differing position angles the orients become rather limited. Excluding just PA = 50,150 (due to proximity) allows for ORIENT = 0-40,70-130,160-220,250-310,340-459 but adding the brightest star at PA = 214 limits this to allowed range to ORIENT = 0-24,70-114, 160-204,250-294,340-359. We note that adding these orient constraints do not impact observability in the visit planner.</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)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	GRB120804A-EE	RA: 15 35 47.5100 (233.9479583d) Dec: -28 46 56.11 (-28.78225d) Equinox: J2000	Epoch of Position: 2015.5	V=26	Reference Frame: SIMBAD				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[SPIRAL] Extended=YES									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) GRB120804A-E E	(3) GRB120804A-E	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Pattern 1, Exps 1-1 in GRB 120804A (03) (1)	602.934229 Secs (2411.737 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 17492 - GRB 170428A (04) - Zooming in on the locations of short gamma-ray bursts

Mon Jun 10 18:00:41 GMT 2024

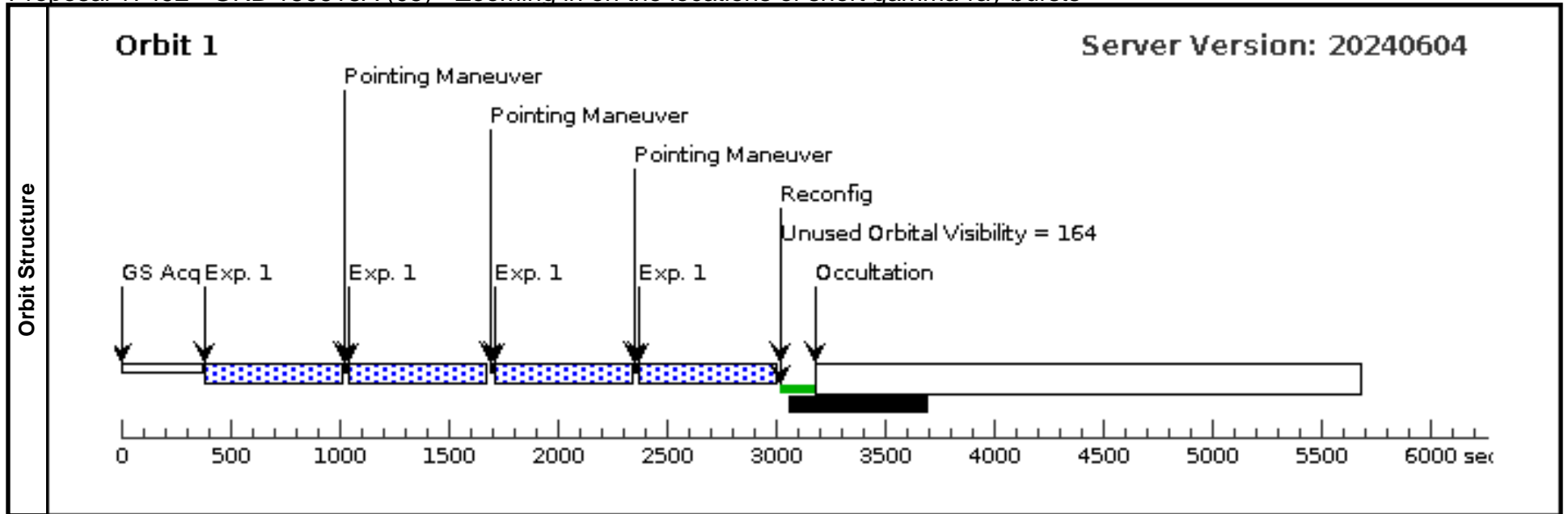
Visit	<p>Proposal 17492, GRB 170428A (04), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: (none)</p> <p><i>Comments: No orientation constraints required. An H~10 AB mag star resides about 300" away, and is out of the field of view.</i></p> <p><i>We request that this be checked whether this could still potentially be an issue and whether orient constraints should be applied.</i></p>										
	Patterns	#	Primary Pattern				Secondary Pattern				Exposures
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false					(1)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous				
	(4)	GRB170428A	RA: 22 00 18.7100 (330.0779583d) Dec: +26 54 56.28 (26.91563d) Equinox: J2000	Epoch of Position: 2015.5		V=22.5	Reference Frame: J2000				
<p><i>Comments:</i> Category=GALAXY Description=[SPIRAL] Extended=YES</p>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(4) GRB170428A	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Pattern 1, Exps 1-1 in GRB 170428A (04) (1)	602.934229 Secs (2411.737 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]



Proposal 17492 - GRB 180618A (05) - Zooming in on the locations of short gamma-ray bursts

Mon Jun 10 18:00:41 GMT 2024

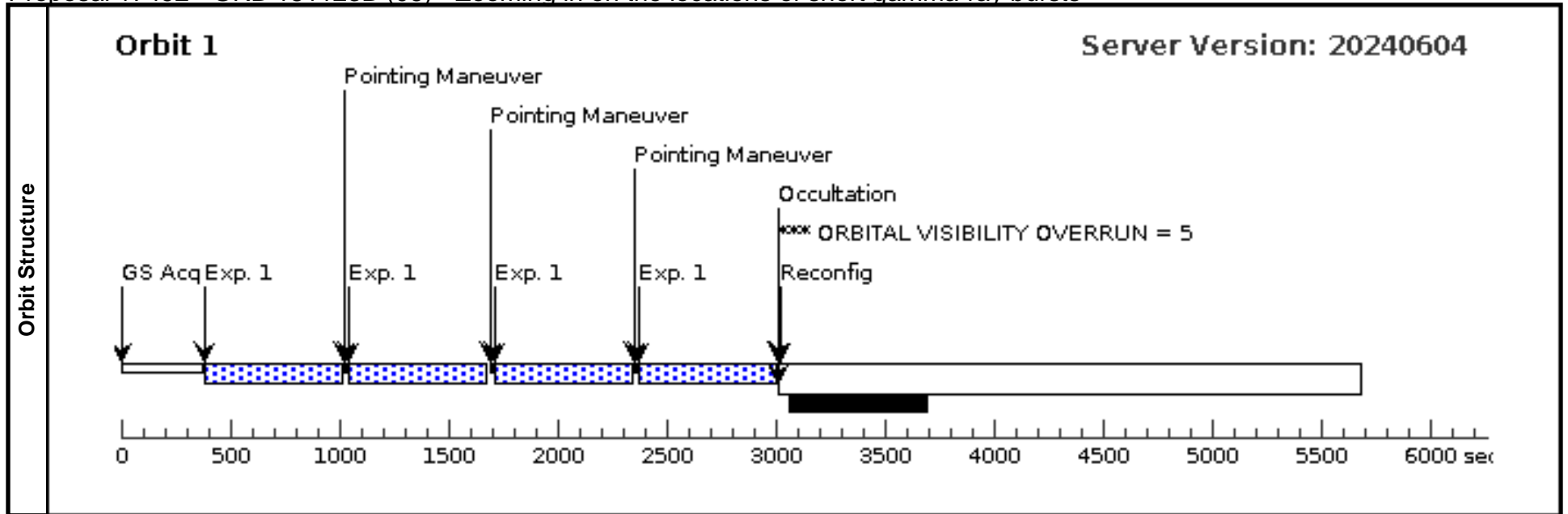
Visit	Proposal 17492, GRB 180618A (05), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 0D TO 10 D; ORIENT 30D TO 100 D; ORIENT 120D TO 190 D; ORIENT 210D TO 280 D; ORIENT 300D TO 359 D <i>Comments: A H~17 AB mag star resides at 7" offset. The PA between star and target is 290 degrees. We add +/-10 degrees uncertainty on this. The allowed ORIENT constraints to avoid diffraction spikes are therefore: 0-10, 30-100, 120-190, 210-280, 300-359</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)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(14)	GRB180618A-EE	RA: 11 19 45.9400 (169.9414167d) Dec: +73 50 13.50 (73.83708d) Equinox: J2000	Epoch of Position: 2015.5	V=23	Reference Frame: J2000				
	<i>Comments:</i> Category=GALAXY Description=[SPIRAL] Extended=YES									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(14) GRB180618A-EE	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7			Pattern 1, Exps 1-1 in GRB 180618A (05)) (1)	602.934229 Secs (2411.737 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 17492 - GRB 181123B (06) - Zooming in on the locations of short gamma-ray bursts

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Visit	Proposal 17492, GRB 181123B (06), completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: No orientation constraints required.</i>									
	(GRB 181123B (06)) 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		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(15)	GRB181123B-EE	RA: 12 17 27.9100 (184.3662917d) Dec: +14 35 52.27 (14.59785d) Equinox: J2000		V=24	Reference Frame: J2000				
	<i>Comments:</i> Category=GALAXY Description=[SPIRAL] Extended=YES									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(15) GRB181123B-E E	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Pattern 1, Exps 1-1 in GRB 181123B (06) (1)	602.934229 Secs (2411.737 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 17492 - GRB 201221D (07) - Zooming in on the locations of short gamma-ray bursts

Mon Jun 10 18:00:41 GMT 2024

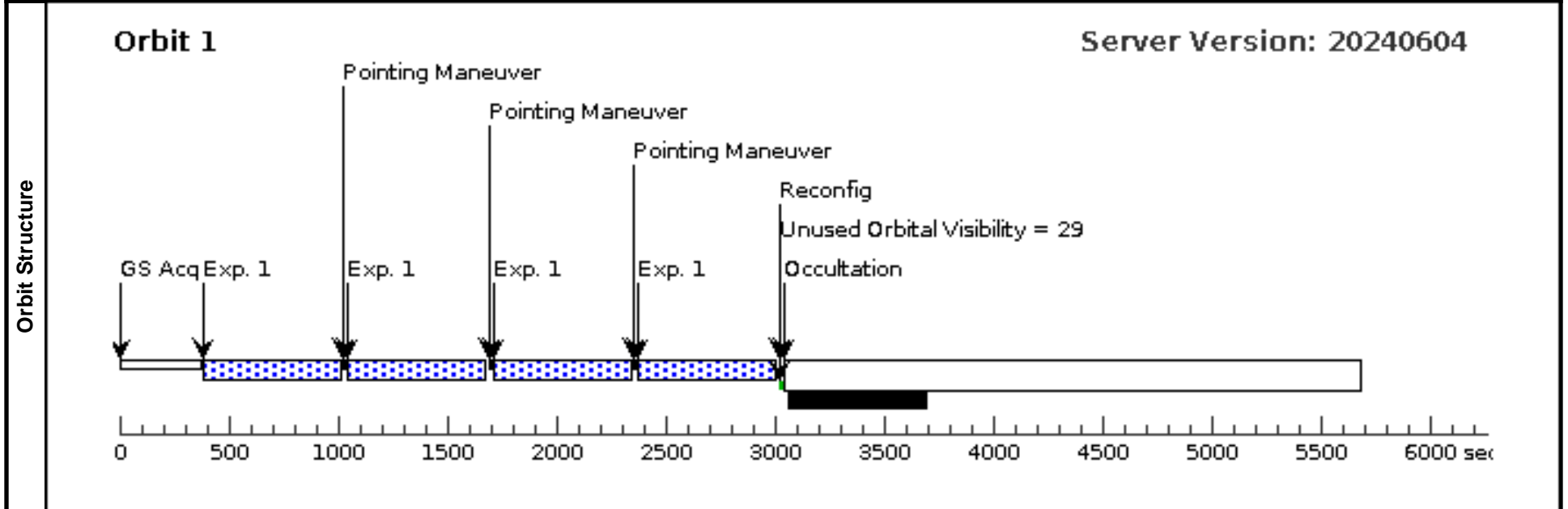
Visit	Proposal 17492, GRB 201221D (07), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: No orientation constraints required.</i>		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(16)	GRB201221D	RA: 11 24 14.0200 (171.0584167d) Dec: +42 08 39.97 (42.14444d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: J2000

*Comments: This GRB has only an XRT localization.
 Category=GALAXY
 Description=[HIGH REDSHIFT GALAXY, SPIRAL]
 Extended=YES*

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(16) GRB201221D	(16) GRB201221D	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Pattern 1, Exps 1-1 in GRB 201221D (07) (1)	602.934229 Secs (2411.737 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 17492 - GRB 210323A (08) - Zooming in on the locations of short gamma-ray bursts

Mon Jun 10 18:00:41 GMT 2024

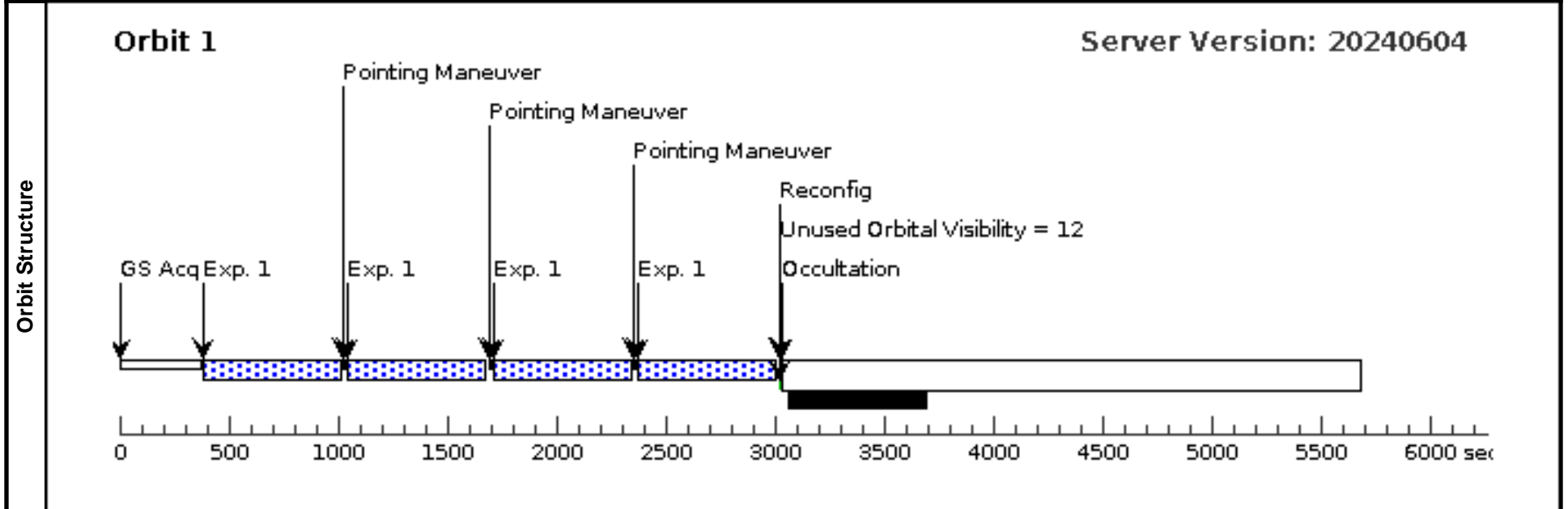
Visit	Proposal 17492, GRB 210323A (08), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: No orientation constraints.</i>		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(17)	GRB210323A	RA: 21 11 47.3300 (317.9472083d) Dec: +25 22 9.20 (25.36922d) Equinox: J2000		V=24.5	Reference Frame: J2000

Comments: Category=GALAXY Description=[SPIRAL] Extended=YES

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(17) GRB210323A	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7			Pattern 1, Exps 1-1 in GRB 210323A (08) (1)	602.934229 Secs (2411.737 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 17492 - GRB 210726A (09) - Zooming in on the locations of short gamma-ray bursts

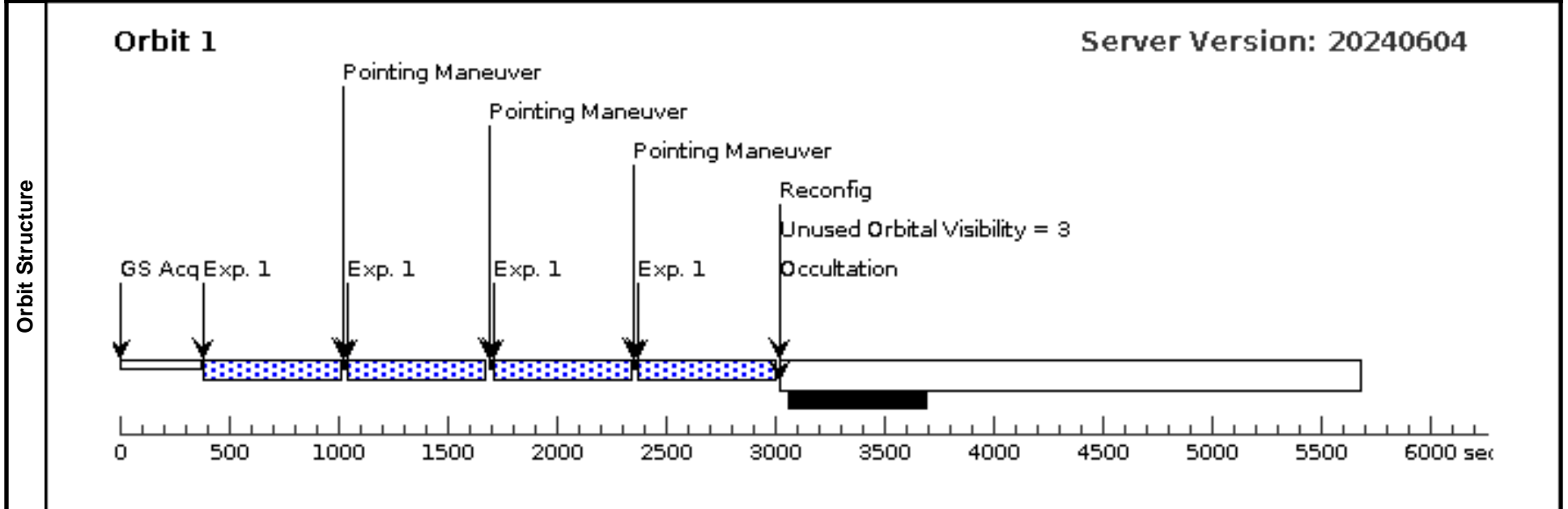
Mon Jun 10 18:00:41 GMT 2024

Visit	Proposal 17492, GRB 210726A (09), completed		
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: No orientation constraints.</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)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(18)	GRB210726A	RA: 12 53 9.7000 (193.2904167d) Dec: +19 11 27.30 (19.19092d) Equinox: J2000		V=23	Reference Frame: J2000
	<i>Comments:</i> Category=GALAXY Description=[SPIRAL] Extended=YES					

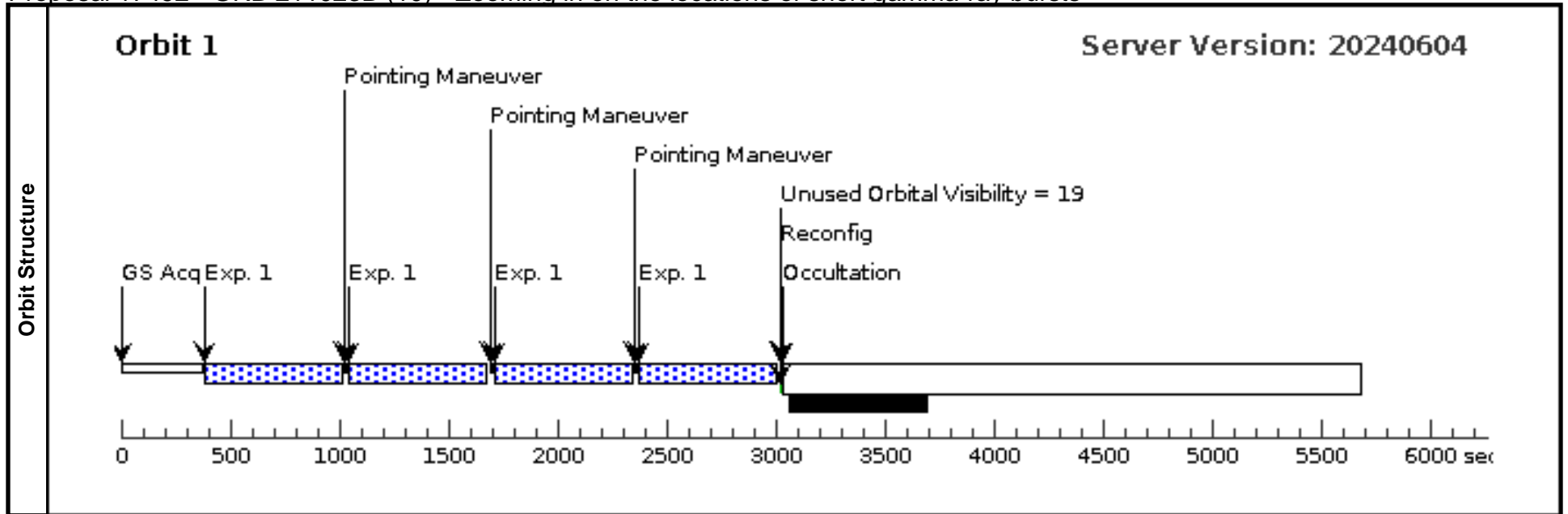
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(18) GRB210726A	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Pattern 1, Exps 1-1 in GRB 210726A (09) (1)	602.934229 Secs (2411.737 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 17492 - GRB 211023B (10) - Zooming in on the locations of short gamma-ray bursts

Mon Jun 10 18:00:41 GMT 2024

Visit	Proposal 17492, GRB 211023B (10), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 0D TO 47 D; ORIENT 67D TO 137 D; ORIENT 157D TO 227 D; ORIENT 247D TO 317 D; ORIENT 337D TO 359 D <i>Comments: A H~14th AB mag star resides at 35" offset. The PA between star and target is ~327 deg. We exclude +/-10 degrees on either side of this to compute the allowed ORIENT: 0-47, 67-137, 157-227, 247-317, 337-359</i> <i>This does not affect the visibility in the visit planner.</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)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous				
	(20)	GRB211023B	RA: 11 21 14.0900 (170.3087083d) Dec: +39 08 7.20 (39.13533d) Equinox: J2000			V=23.5	Reference Frame: J2000				
<i>Comments: Category=GALAXY Description=[SPIRAL] Extended=YES</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(20) GRB211023B	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Pattern 1, Exps 1-1 in GRB 211023B (10) (1)	602.934229 Secs (2411.737 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]



Proposal 17492 - GRB 220831A (11) - Zooming in on the locations of short gamma-ray bursts

Mon Jun 10 18:00:41 GMT 2024

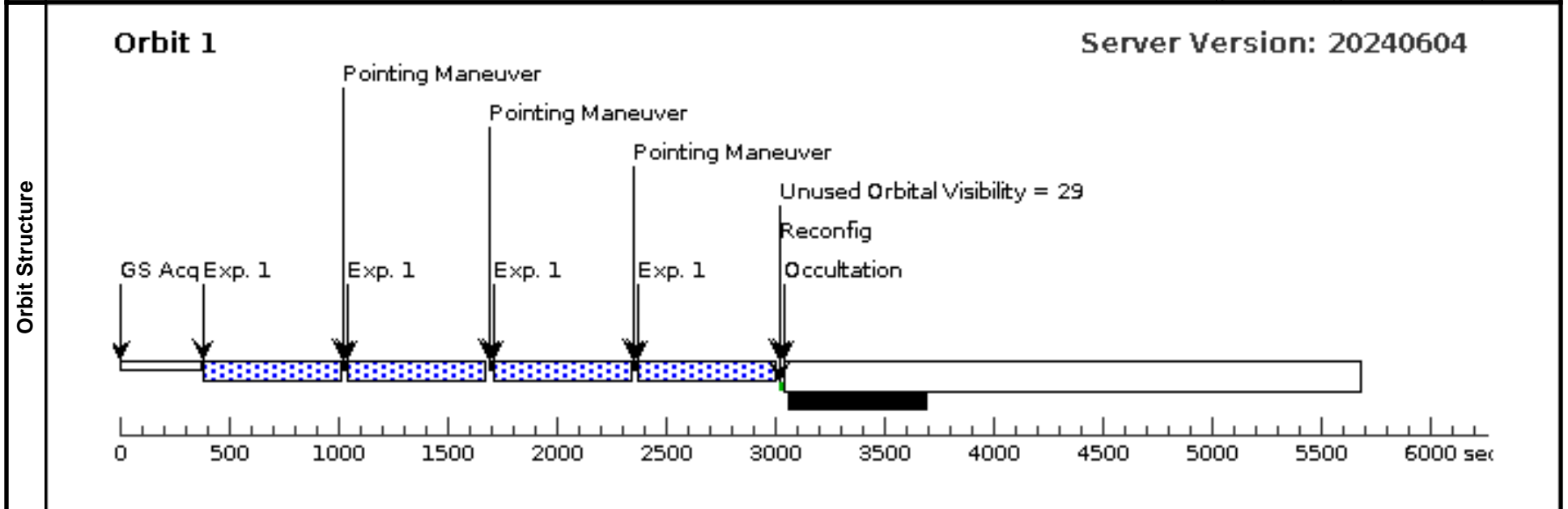
Visit	Proposal 17492, GRB 220831A (11), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) Comments: No orientation constraints required.		

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

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(21)	GRB220831A	RA: 01 37 0.9000 (24.2537500d) Dec: -41 35 34.30 (-41.59286d) Equinox: J2000		V=26.5	Reference Frame: J2000

Comments:
Category=GALAXY
Description=[HIGH REDSHIFT GALAXY]

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(21) GRB220831A	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7			Pattern 1, Exps 1-1 in GRB 220831A (11) (1)	602.934229 Secs (2411.737 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]



Proposal 17492 - GRB 221120A (12) - Zooming in on the locations of short gamma-ray bursts

Mon Jun 10 18:00:41 GMT 2024

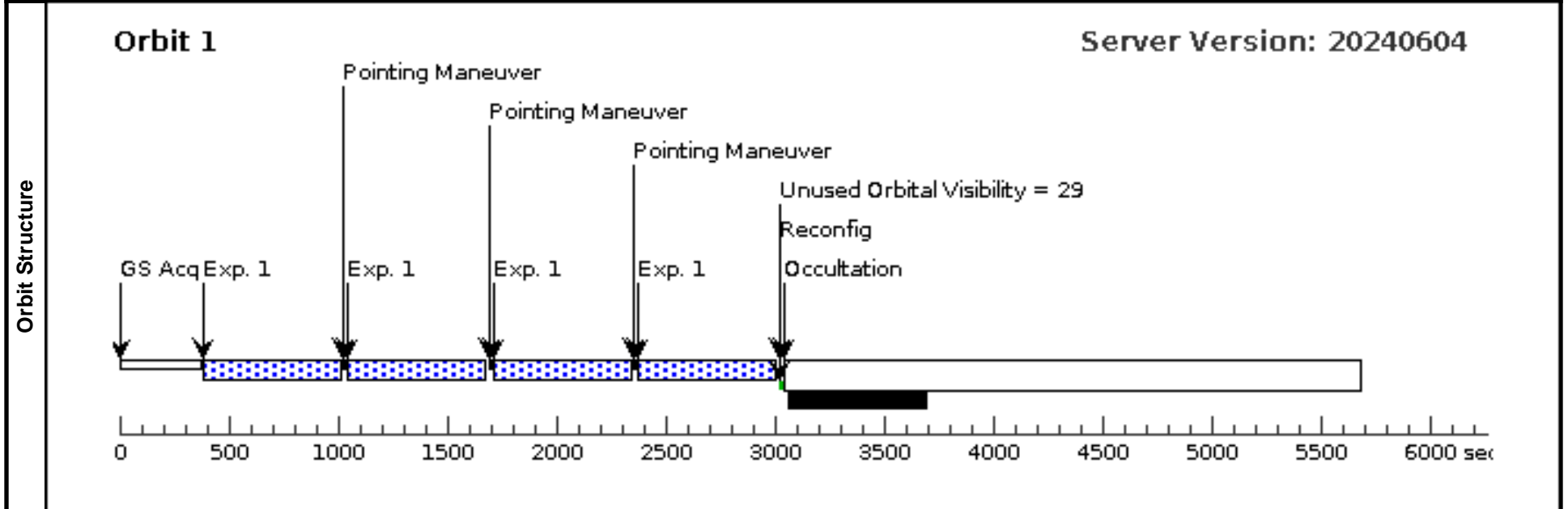
Visit	Proposal 17492, GRB 221120A (12), failed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: No orientation constraints required.</i>		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(22)	GRB221120A	RA: 02 45 21.3600 (41.3390000d) Dec: +43 14 34.90 (43.24303d) Equinox: J2000		V=25	Reference Frame: J2000

Comments: XRT localized only. Coordinates and position uncertainty are for the host galaxy.
 Category=GALAXY
 Description=[HIGH REDSHIFT GALAXY]
 Extended=YES

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(22) GRB221120A	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7			Pattern 1, Exps 1-1 in GRB 221120A (12) (1)	602.934229 Secs (2411.737 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 17492 - GRB 221120A (62) - Zooming in on the locations of short gamma-ray bursts

Mon Jun 10 18:00:41 GMT 2024

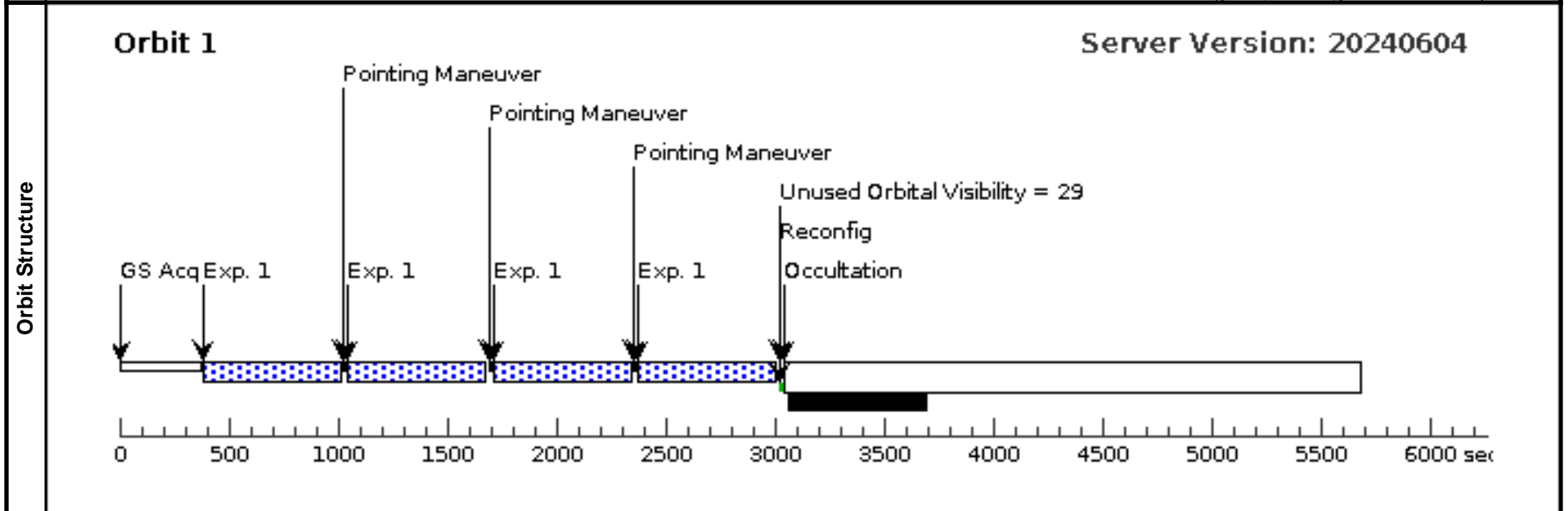
Visit	Proposal 17492, GRB 221120A (62), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: No orientation constraints required.</i>		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(22)	GRB221120A	RA: 02 45 21.3600 (41.3390000d) Dec: +43 14 34.90 (43.24303d) Equinox: J2000		V=25	Reference Frame: J2000

Comments: XRT localized only. Coordinates and position uncertainty are for the host galaxy.
 Category=GALAXY
 Description=[HIGH REDSHIFT GALAXY]
 Extended=YES

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(22) GRB221120A	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7			Pattern 1, Exps 1-1 in GRB 221120A (62) (1)	602.934229 Secs (2411.737 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 17492 - GRB 180727A (13) - Zooming in on the locations of short gamma-ray bursts

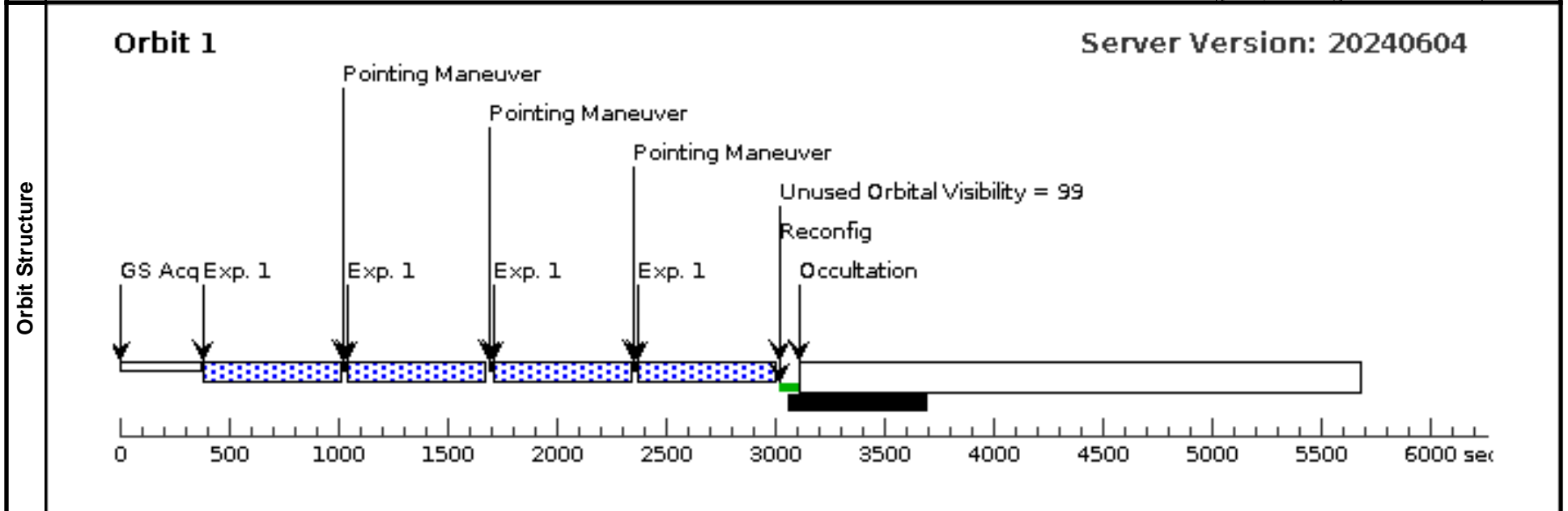
Mon Jun 10 18:00:41 GMT 2024

Visit	Proposal 17492, GRB 180727A (13), failed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: No orientation constraints required.</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)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(23)	GRB180727A	RA: 23 06 39.6800 (346.6653333d) Dec: -63 03 6.70 (-63.05186d) Equinox: J2000		V=26.5	Reference Frame: J2000
	<i>Comments: XRT localized only.</i> Category=GALAXY Description=[HIGH REDSHIFT GALAXY] Extended=YES					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(23) GRB180727A	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Pattern 1, Exps 1-1 in GRB 180727A (13) (1)	602.934229 Secs (2411.737 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 17492 - GRB 180727A (63) - Zooming in on the locations of short gamma-ray bursts

Mon Jun 10 18:00:41 GMT 2024

Visit	Proposal 17492, GRB 180727A (63), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: No orientation constraints required.</i>		
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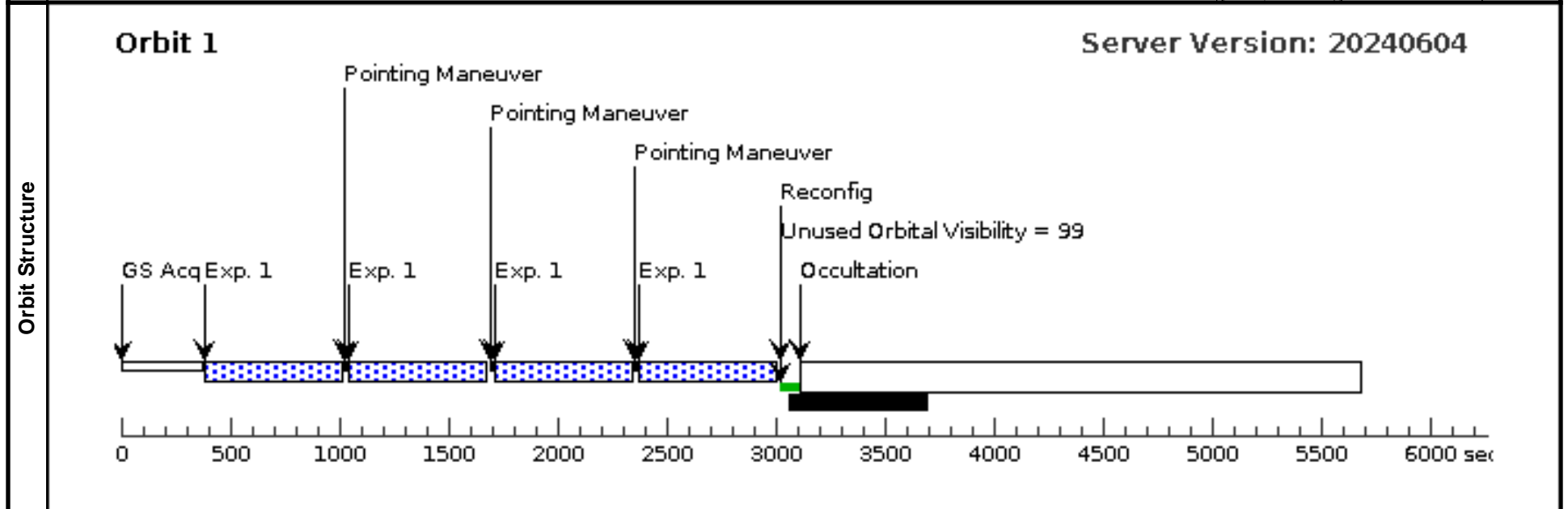
Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(23)	GRB180727A	RA: 23 06 39.6800 (346.6653333d) Dec: -63 03 6.70 (-63.05186d) Equinox: J2000		V=26.5	Reference Frame: J2000

*Comments: XRT localized only.
Category=GALAXY
Description=[HIGH REDSHIFT GALAXY]
Extended=YES*

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(23) GRB180727A	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7			Pattern 1, Exps 1-1 in GRB 180727A (63) (1)	602.934229 Secs (2411.737 Secs)	[I]

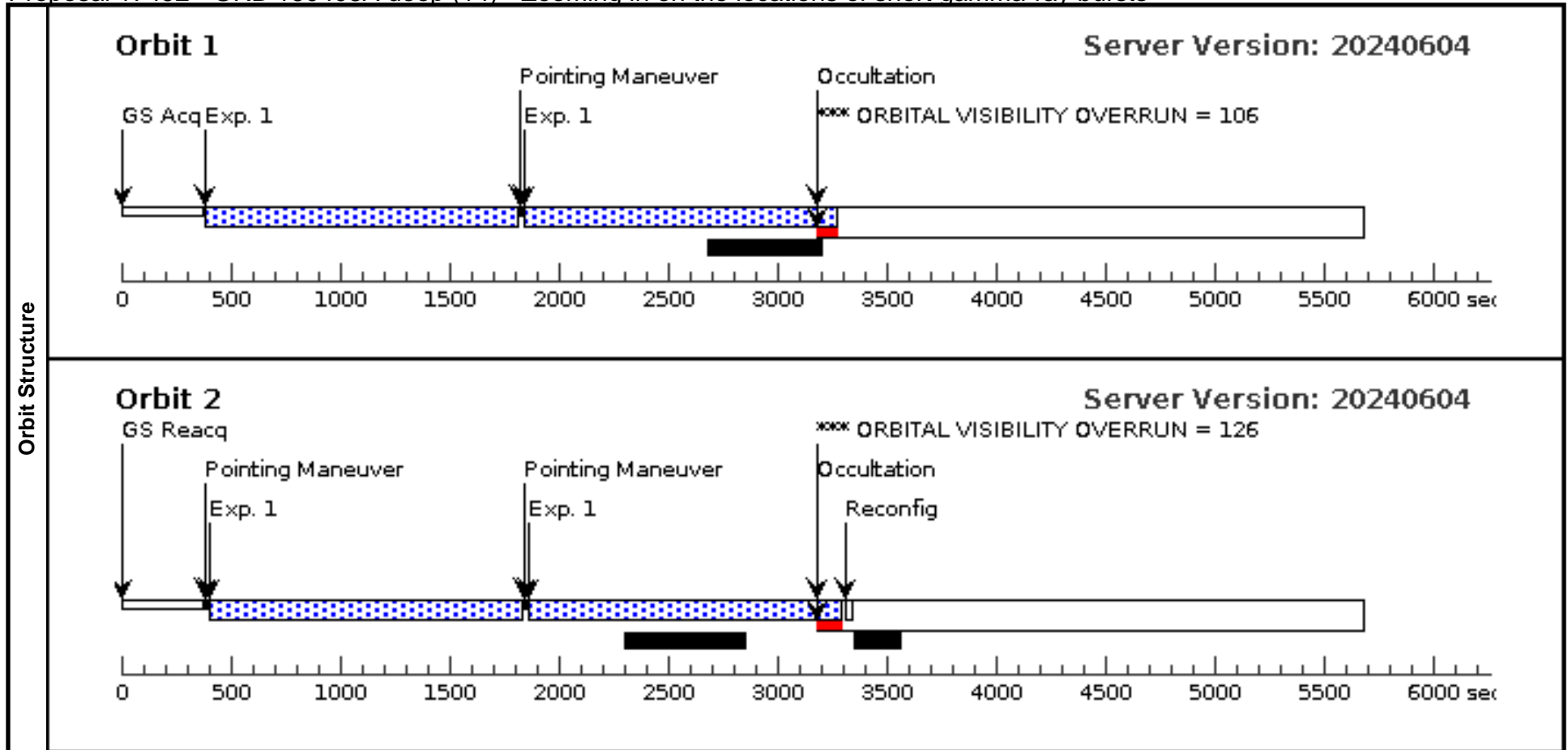
[==>(Pattern 1)]
[==>(Pattern 2)]
[==>(Pattern 3)]
[==>(Pattern 4)]



Proposal 17492 - GRB 160408A deep (14) - Zooming in on the locations of short gamma-ray bursts

Mon Jun 10 18:00:41 GMT 2024

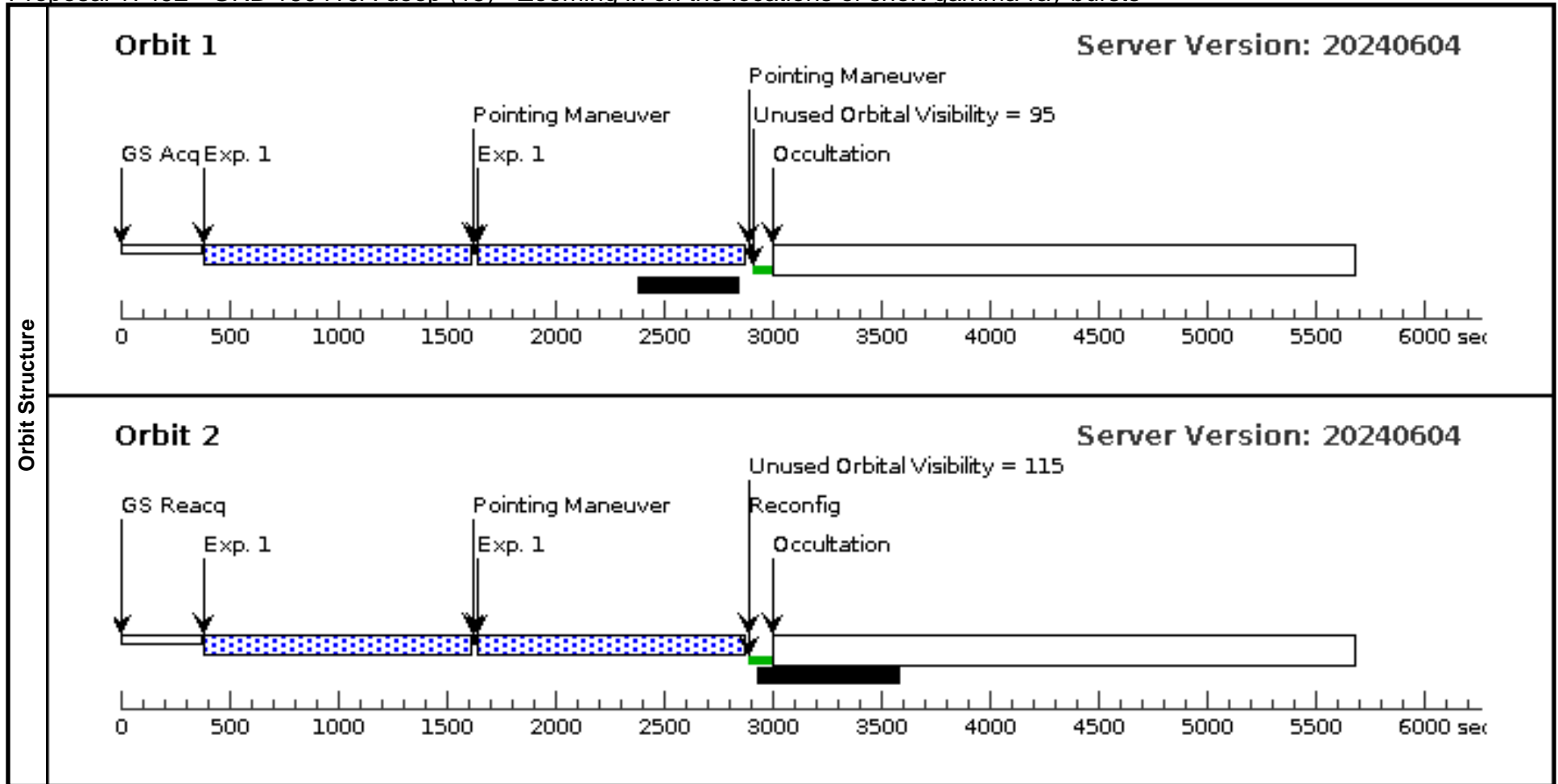
Visit	Proposal 17492, GRB 160408A deep (14), completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: No orientation constraints required.</i>									
	(GRB 160408A deep (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (GRB 160408A deep (14)) 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			(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	GRB160408A	RA: 08 10 29.8100 (122.6242083d) Dec: +71 07 43.70 (71.12881d) Equinox: J2000	Epoch of Position: 2015.5	V=26	Reference Frame: J2000				
<i>Comments:</i> Category=GALAXY Description=[HIGH REDSHIFT GALAXY] Extended=NO										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(6) GRB160408A	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=15; SAMP-SEQ=SPAR S100			Pattern 1, Exps 1-1 in GRB 160408A deep (14) (1)	1402.936813 Secs (5611.747 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1] [2]



Proposal 17492 - GRB 160410A deep (15) - Zooming in on the locations of short gamma-ray bursts

Mon Jun 10 18:00:41 GMT 2024

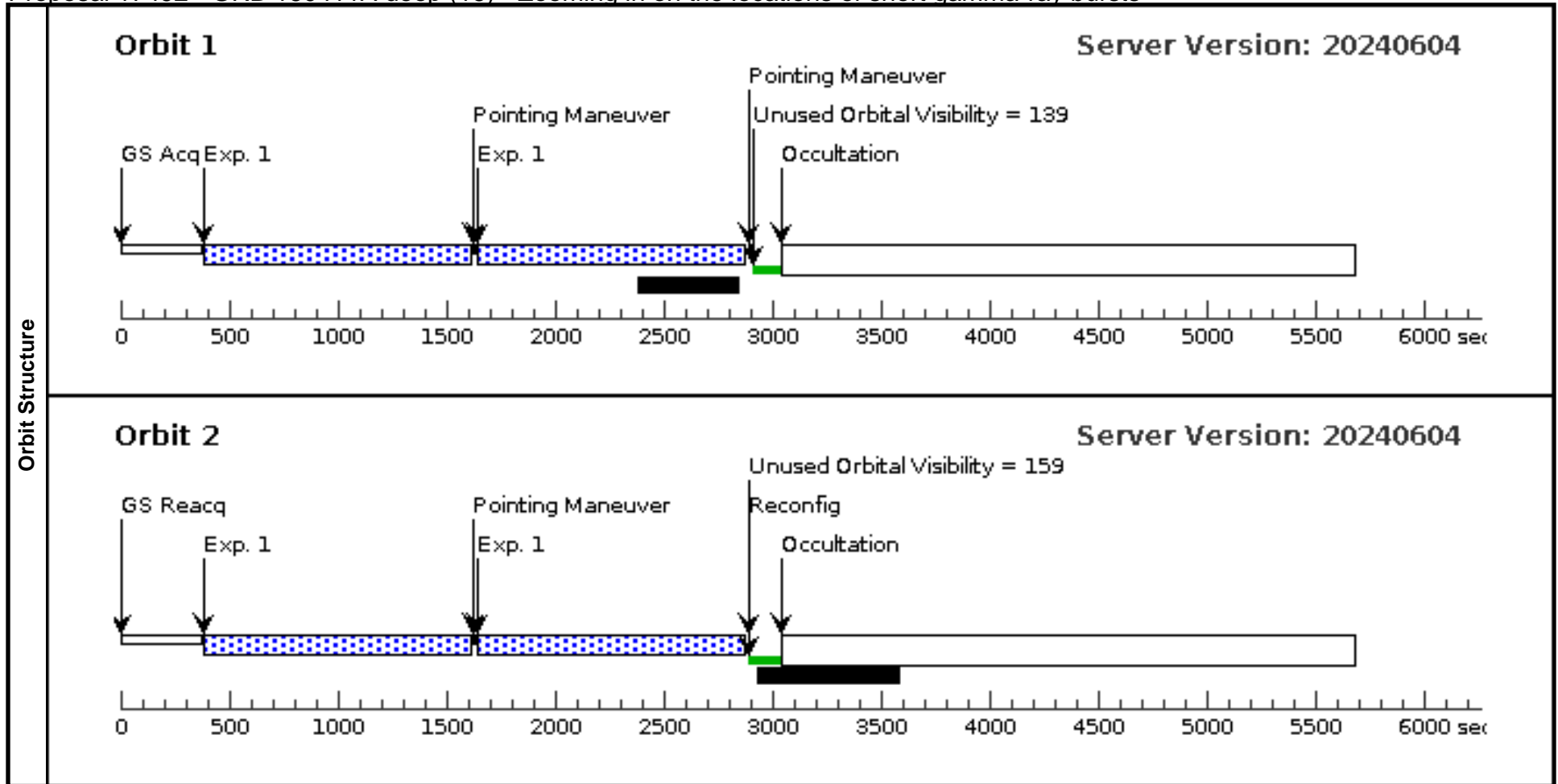
Visit	Proposal 17492, GRB 160410A deep (15), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 0D TO 52 D; ORIENT 72D TO 142 D; ORIENT 162D TO 232 D; ORIENT 252D TO 322 D; ORIENT 342D TO 359 D <i>Comments: NSAMP = 14 to avoid overrunning orbital visibility. There are two nearby stars within 5" at PA~12 and 62. This event is a hostless short GRB where the position of the galaxy is unknown, and only the location of the transient is known. We therefore cannot exclude slight offsets around our localization for the transient, though based on the optical spectrum of the afterglow it is likely within the half-light radius. Due to the unknown location of the target galaxy, this would require excluding a vast amount of PA between ~2-72. As this severely limits scheduling ability, we opt to only exclude PAs associated with the diffraction spike of the brighter star, which is more likely to have an impact on the science goal. After careful consideration, a diffraction spike associated with the fainter star is unlikely to reach the target position (based on comparison to other HST images with the same configuration). Therefore, the allowed ORIENT ranges (to exclude diffraction spikes associated with PA~62) are: 0-52, 72-142, 162-232, 252-322, 342-359. These constraints do not impact the visit planner.</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)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	GRB160410A-EE	RA: 10 02 44.3700 (150.6848750d) Dec: +03 28 42.40 (3.47844d) Equinox: J2000	Epoch of Position: 2015.5	V=27	Reference Frame: J2000				
	<i>Comments: Category=GALAXY Description=[HIGH REDSHIFT GALAXY] Extended=NO</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(7) GRB160410A-E E	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=13;		Pattern 1, Exps 1-1 in GRB 160410A deep (15) (1)	1202.936167 Secs (4811.745 Secs)	
						SAMP-SEQ=SPAR S100			[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
								[=>(Pattern 3)]		
								[=>(Pattern 4)]		



Proposal 17492 - GRB 160411A deep (16) - Zooming in on the locations of short gamma-ray bursts

Mon Jun 10 18:00:41 GMT 2024

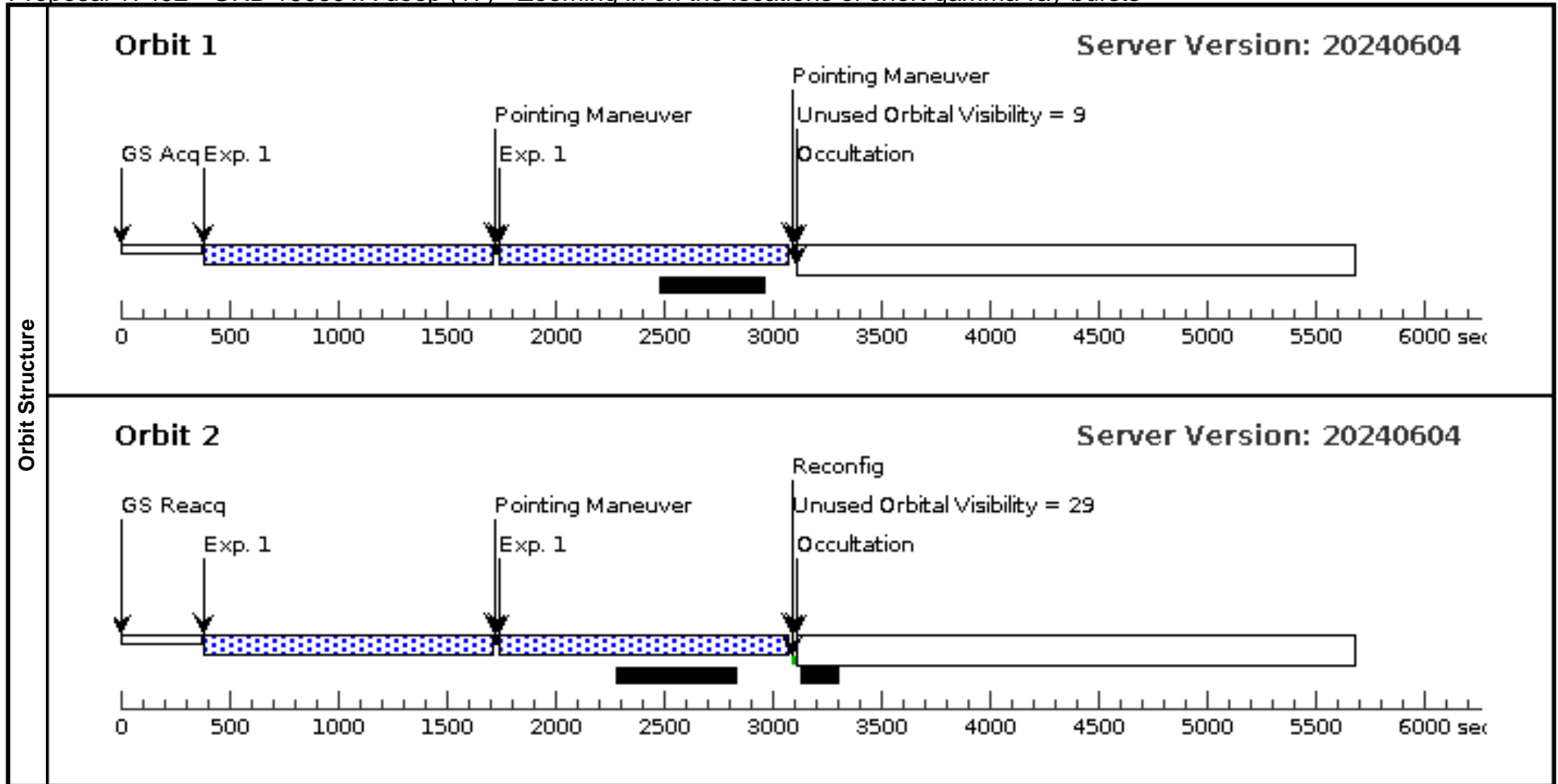
Visit	Proposal 17492, GRB 160411A deep (16), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: NSAMP = 14 to avoid overrunning orbital visibility. No orientation constraints required.</i>									
	Patterns	#	Primary Pattern			Secondary 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)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	GRB160411A	RA: 23 17 25.3550 (349.3556458d) Dec: -40 14 30.56 (-40.24182d) Equinox: J2000	Epoch of Position: 2015.5	V=26	Reference Frame: J2000				
	<i>Comments:</i> Category=GALAXY Description=[HIGH REDSHIFT GALAXY] Extended=NO									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(8) GRB160411A		WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=13;		Pattern 1, Exps 1-1 in GRB 160411A deep (16) (1)	1202.936167 Secs (4811.745 Secs)	
						SAMP-SEQ=SPAR S100			[==>(Pattern 1)]	[1]
									[==>(Pattern 2)]	
								[==>(Pattern 3)]		
								[==>(Pattern 4)]	[2]	



Proposal 17492 - GRB 160601A deep (17) - Zooming in on the locations of short gamma-ray bursts

Mon Jun 10 18:00:41 GMT 2024

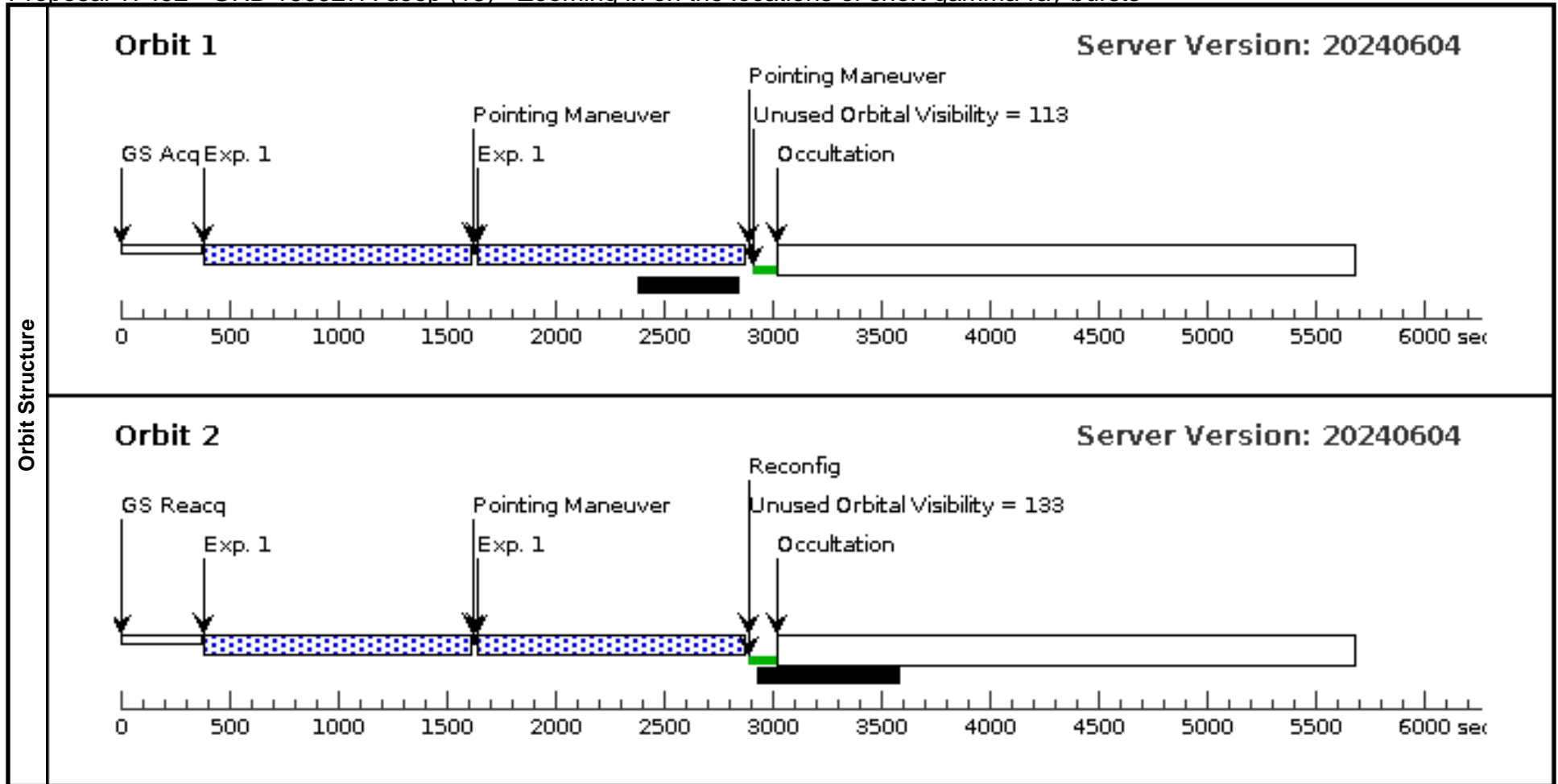
Visit	Proposal 17492, GRB 160601A deep (17), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 0D TO 25 D; ORIENT 45D TO 115 D; ORIENT 135D TO 205 D; ORIENT 225D TO 295 D; ORIENT 314D TO 359 D Comments: A H~10th AB mag star is located at offset of ~180" (outside the field of view). We are not sure whether this can still impact the observation, i.e., whether a diffraction spike can reach this far for that brightness. It would be helpful if this could be checked/advised. A H~14th AB mag star resides at ~50" from the target position at PA~215 degrees. To avoid diffraction spikes we have provided the following allowed orientation: 0-25, 45-115, 135-205, 225-295, 314-359 This barely impact the visit planner.									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false				(1)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	GRB160601A	RA: 15 39 43.9500 (234.9331250d) Dec: +64 32 30.60 (64.54183d) Equinox: J2000	Epoch of Position: 2015.5	V=25.5	Reference Frame: J2000				
	Comments: Category=GALAXY Description=[HIGH REDSHIFT GALAXY] Extended=NO									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(9) GRB160601A		WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=14; SAMP-SEQ=SPAR S100		Pattern 1, Exps 1-1 in GRB 160601A deep (17) (1)	1302.93649 Secs (5211.746 Secs)	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
									[=>(Pattern 3)]	[2]
									[=>(Pattern 4)]	



Proposal 17492 - GRB 160927A deep (18) - Zooming in on the locations of short gamma-ray bursts

Mon Jun 10 18:00:41 GMT 2024

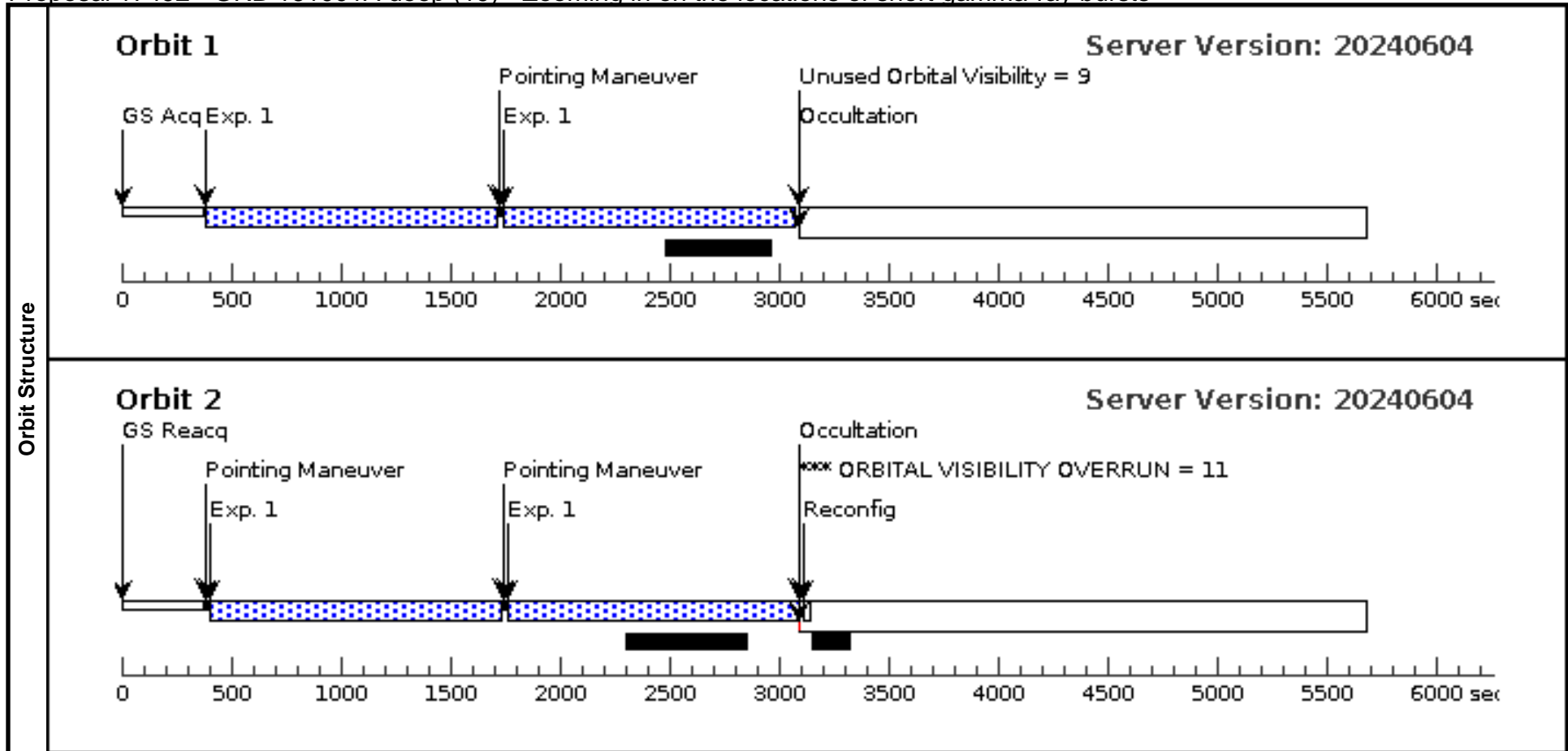
Visit	<p>Proposal 17492, GRB 160927A deep (18), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: ORIENT 10D TO 20 D; ORIENT 40D TO 80 D; ORIENT 90D TO 110 D; ORIENT 130D TO 170 D; ORIENT 190D TO 200 D; ORIENT 220D TO 260 D; ORIENT 280D TO 290 D; ORIENT 310D TO 350 D</p> <p><i>Comments: There are multiple bright stars in this field. Two of which are within 15" of the target position, fortunately these stars are at similar PA (and PA+~180) from each other, i.e. PA~90 and 270. The brighter one has H~16th AB mag. Another extremely bright star is located right outside the field of view, but the PA is similar (~275), so should not be a problem when excluding +/-10 degrees around the 4 diffraction spikes associated with the star at PA~90.</i></p> <p><i>The brightest star within the field of view is at 70" at PA~209 with H~13.5 AB mag. Another is at PA~195 at 35" with H~16 AB mag. We estimate the diffraction spikes from that star should only reach ~20" with this configuration, and are therefore less concerned about its impact.</i></p> <p><i>We therefore opt to exclude PA~80-100 and PA~200-220, which leads to an allowed ORIENT of: 10-20, 40-80, 90-110, 130-170, 190-200, 220-260, 280-290, 310-350. These constraints have no impact on the visit planner.</i></p>									
	#		Primary Pattern		Secondary Pattern		Exposures			
Patterns	(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)				
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
Fixed Targets	(10)	GRB160927A	RA: 17 04 58.2100 (256.2425417d) Dec: +17 19 55.10 (17.33197d) Equinox: J2000	Epoch of Position: 2015.5	V=27	Reference Frame: J2000				
	<p><i>Comments:</i> Category=GALAXY Description=[HIGH REDSHIFT GALAXY] Extended=NO</p>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(10) GRB160927A		WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=13; SAMP-SEQ=SPARS100		Pattern 1, Exps 1-1 in GRB 160927A deep (18) (1)	1202.936167 Secs (4811.745 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1] [2]



Proposal 17492 - GRB 161001A deep (19) - Zooming in on the locations of short gamma-ray bursts

Mon Jun 10 18:00:41 GMT 2024

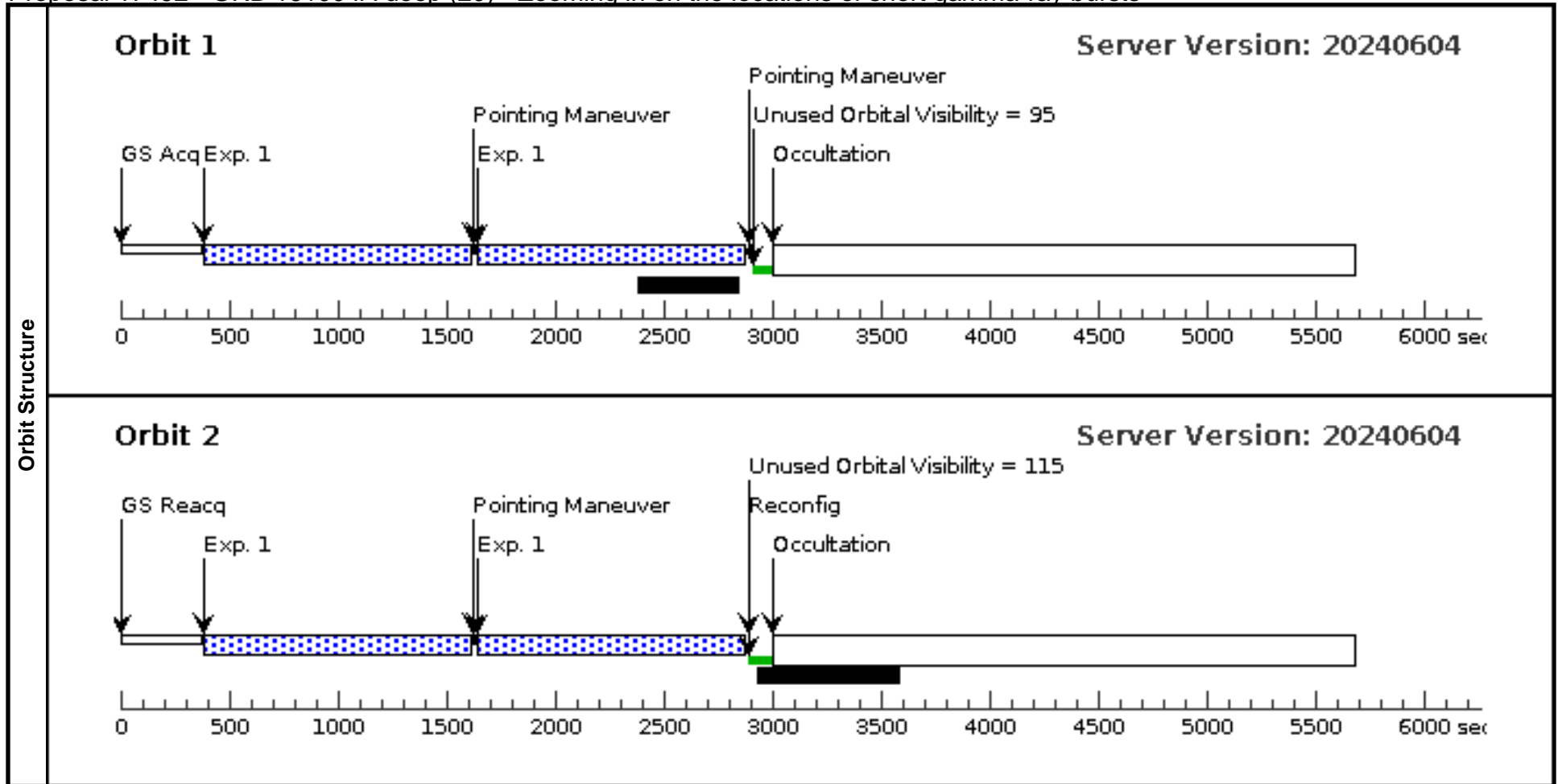
Visit	<p>Proposal 17492, GRB 161001A deep (19), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: ORIENT 0D TO 15 D; ORIENT 55D TO 105 D; ORIENT 145D TO 195 D; ORIENT 235D TO 285 D; ORIENT 325D TO 359 D</p> <p><i>Comments: NSAMP = 14 to avoid overrunning the orbit. A ~19th mag star is at an offset of ~3" from the target. Due to the close proximity, and extended nature of the target source, we exclude a larger swath of PA (+/-20) centered around PA~35 deg, i.e., excluding PA~15-55. The allowed ORIENT is therefore: 0-15, 55-105, 145-195, 235-285, 325-359. These constraints did impact the visibility in the visit planner, but a large range of allowed visit times still exists.</i></p>										
	<p>(GRB 161001A deep (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>										
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						(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(11)	GRB161001A	RA: 04 47 40.7900 (71.9199583d) Dec: -57 15 39.00 (-57.26083d) Equinox: J2000		Epoch of Position: 2015.5		V=23		Reference Frame: J2000		
<p><i>Comments: This is an XRT localized event lacking a subarcsecond position. A GROND optical afterglow position exists but the images are not available for confirmation.</i></p> <p>Category=GALAXY Description=[SPIRAL] Extended=YES</p>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(11) GRB161001A	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=14;		Pattern 1, Exps 1-1 in GRB 161001A deep (19) (1)	1302.93649 Secs (5211.746 Secs)		
						SAMP-SEQ=SPAR			[=>(Pattern 1)]		[1]
						S100			[=>(Pattern 2)]		
							[=>(Pattern 3)]			[2]	
								[=>(Pattern 4)]			



Proposal 17492 - GRB 161004A deep (20) - Zooming in on the locations of short gamma-ray bursts

Mon Jun 10 18:00:41 GMT 2024

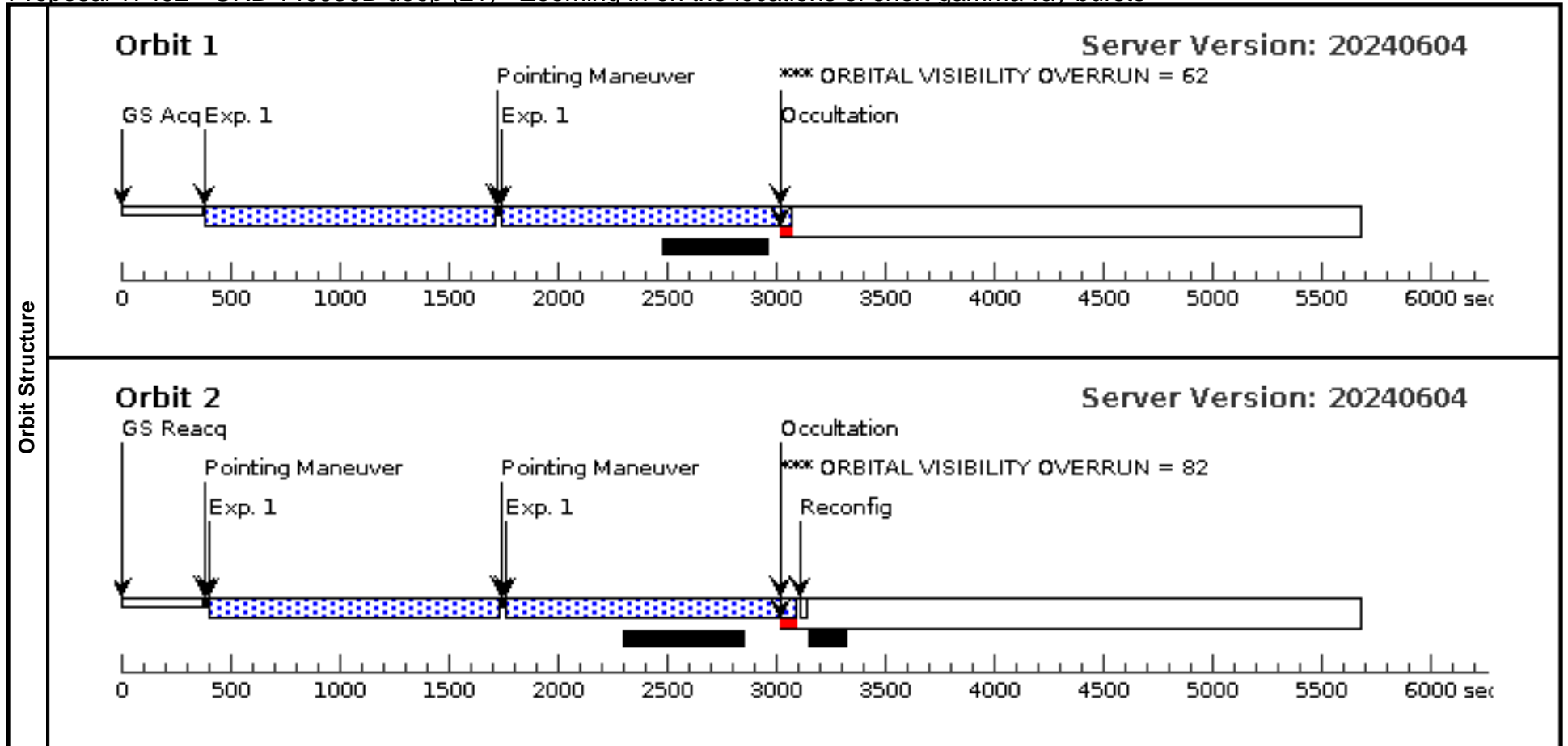
Visit	Proposal 17492, GRB 161004A deep (20), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 12D TO 36 D; ORIENT 65D TO 84 D; ORIENT 102D TO 126 D; ORIENT 155D TO 174 D; ORIENT 192D TO 216 D; ORIENT 245D TO 264 D; ORIENT 282D TO 306 D; ORIENT 335D TO 354 D <i>Comments: NSAMP = 13 to avoid overrunning orbital visibility. This is a crowded field with many bright stars. The main ones to avoid have PA~6,12,46,55. Avoiding +/-10 deg on either side of these PAs leads to exclusion of PAs ~ 354-22 and 36-65. Thus the following ORIENT allowed constraints to prevent diffraction spikes: 12-36, 65-84, 102-126, 155-174, 192-216,245-264,282-306,335-354</i> <i>These constraints do not significantly impact the visit planner scheduling.</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)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(12)	GRB161004A	RA: 17 32 36.5700 (263.1523750d) Dec: -00 57 2.40 (-.95067d) Equinox: J2000		Epoch of Position: 2015.5		V=25.5	Reference Frame: J2000			
	<i>Comments: Using the Swift UVOT position.</i> Category=GALAXY Description=[HIGH REDSHIFT GALAXY] Extended=NO										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(12) GRB161004A	WFC3/IR, MULTIACCUM, IR	F160W		NSAMP=13; SAMP-SEQ=SPAR S100		Pattern 1, Exps 1-1 in GRB 161004A deep (20) (1)	1202.936167 Secs (4811.745 Secs)		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		
								[==>(Pattern 3)]			
								[==>(Pattern 4)]			[2]



Proposal 17492 - GRB 140930B deep (21) - Zooming in on the locations of short gamma-ray bursts

Mon Jun 10 18:00:41 GMT 2024

Visit	<p>Proposal 17492, GRB 140930B deep (21), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: ORIENT 5D TO 65 D; ORIENT 95D TO 155 D; ORIENT 185D TO 245 D; ORIENT 275D TO 335 D</p> <p><i>Comments: NSAMP = 14 to avoid overrunning orbital visibility. There is an r~13 mag star at an offset of 15". The PA, measured East of North, of the star to the target position is 350. Due to the brightness and proximity we exclude a large range of PA around this value of +/-15 degrees. This leads to allowed ORIENT of: 5-65, 95-155, 185-245, 275-335, which are computed as outlined in the comments of Visit 2. We note that this target already had poor visibility in the visit planner, and that the addition of these constraints did have an impact on top of this.</i></p>										
	<p>(GRB 140930B deep (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(GRB 140930B deep (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>										
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						(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(5)	GRB140930B	RA: 00 25 23.4400 (6.3476667d) Dec: +24 17 41.70 (24.29492d) Equinox: J2000		Epoch of Position: 2015.5		V=23		Reference Frame: J2000		
<p><i>Comments: A r-band ~ 13th AB magnitude star is located very close (~14") to the position of our target.</i></p> <p><i>Category=GALAXY</i></p> <p><i>Description=[HIGH REDSHIFT GALAXY, SPIRAL]</i></p> <p><i>Extended=YES</i></p>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(5) GRB140930B	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=14; SAMP-SEQ=SPAR S100		Pattern 1, Exps 1-1 in GRB 140930B deep (21) (1)	1302.93649 Secs (5211.746 Secs)		
										[=>(Pattern 1)]	[1]
										[=>(Pattern 2)]	
									[=>(Pattern 3)]		
									[=>(Pattern 4)]	[2]	



Proposal 17492 - GRB 170728A deep (22) - Zooming in on the locations of short gamma-ray bursts

Mon Jun 10 18:00:41 GMT 2024

Visit	Proposal 17492, GRB 170728A deep (22), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 0D TO 10 D; ORIENT 40D TO 100 D; ORIENT 130D TO 190 D; ORIENT 220D TO 280 D; ORIENT 310D TO 359 D <i>Comments: NSAMP = 14 to avoid overrunning orbital visibility. There is an r~11.8 mag star at an offset of 27". PA between star and target is 295 degrees East of North. We avoid PA ~ 280-310 due to the proximity and brightness of the star. The ORIENT ranges that prevent a diffraction spike at the target position are: 0-10, 40-100, 130-190, 220-280, 310-359, and are computed as outlined in the comments of Visit 2. These orient constraints have no impact on the visit planner scheduling.</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)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(13)	GRB170728A	RA: 03 55 33.2000 (58.8883333d) Dec: +12 10 54.70 (12.18186d) Equinox: J2000	Epoch of Position: 2015.5	V=25	Reference Frame: J2000					
	<i>Comments: A r-band ~ 12th AB magnitude star is located very close (~27") to the position of our target. Category=GALAXY Description=[HIGH REDSHIFT GALAXY] Extended=NO</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(13) GRB170728A	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=13;		Pattern 1, Exps 1-1 in GRB 170728A deep (22) (1)	1202.936167 Secs (4811.745 Secs)		
						SAMP-SEQ=SPAR			[==>(Pattern 1)]		[1]
						S100			[==>(Pattern 2)]		
							[==>(Pattern 3)]			[2]	
								[==>(Pattern 4)]			

