



14781 - Ultraviolet Spectroscopic Monitoring of an ASAS-SN Tidal Disruption Event

Cycle: 24, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(3) TDE	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	1	06-Sep-2017 14:00:54.0	yes
02	(3) TDE	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	06-Sep-2017 14:00:57.0	yes
03	(5) NEWTDE	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	06-Sep-2017 14:00:59.0	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>
04	(5) NEWTDE	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	3	06-Sep-2017 14:01:01.0	yes
05	(3) TDE	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	06-Sep-2017 14:01:04.0	yes
06	(5) NEWTDE	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	5	06-Sep-2017 14:01:09.0	yes
07	(5) NEWTDE	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	5	06-Sep-2017 14:01:13.0	yes

22 Total Orbits Used

ABSTRACT

Tidal disruption events (TDE), where supermassive black holes destroy stars to produce accretion flares, are of great current observational and theoretical interest. Here we propose a seven epoch STIS UV spectroscopic "movie" of a bright, ASAS-SN transient survey TDE spread over the first ~90 days after a rapid TOO trigger. The roughly 15 day cadence is comparable to the expected time scale for kinematic changes and the time scale of observed changes in the optical H and He lines. We will measure the evolution of UV absorption and emission lines from elements (e.g., C, N, Si) and ionization states/potentials not seen in optical spectra of TDEs, which should help to illuminate the dynamical evolution of these fascinating transients. In some cases, the debris from the stellar cores should have significantly

enhanced [N/C] abundances due to the CNO cycle, so UV spectra can provide a means of differentiating debris from the core and the envelope of the disrupted star.

OBSERVING DESCRIPTION

The goal is to obtain a sequence of 7 STIS FUV-MAMA/G14L and NUV-MAMA/G230L UV spectra of a tidal disruption event, obtaining roughly one spectrum every 15 days for 90 days.

Orbits are set for 1, 2, 2, 3, 4, 5 and 5 orbits for the first through seventh observations.

First observation is a disruptive, rapid (but not ultra-rapid) 2-5 day TOO, followed by observations chained by 13-17 days. The second observation counts as a disruptive TOO, and the remainder are non-disruptive.

We have set the acquisition image for a point source with the standard F28X50LP filter and a 10 second exposure time -- this is appropriate for the early phases where any ASAS-SN bright ASAS-SN TDE should have $V \sim 17$ mag -- should yield a $SNR = 79$ according to the STIT acquisition ETC -- this should still be OK if the TDE is as bright as $V \sim 15$, and hold for at least the first 1/2 of the visits.. The exposure times may need to be adjusted for the later 1/2 of the visits and may need a switch to a diffuse source as the TDE fades relative to its host.

We have used an along slit dither to clean up hot pixels, with a step of 16 pixels to be larger than the recommended 0.35 arcsec -- we expect features fairly broad in velocity so we have not used dithers perpendicular to the slit. A minimum of two exposures are then taken at each dither position. The source should be well above sky, so the 0.2x50 slit should be fine for both the FUV and NUV observations.

----- UPDATED SEPTEMBER 26 2016

The current target is fading fast, so we have decided to obtain one more epoch and then wait for a new trigger, hopefully one which is X-ray bright to go along with our approved 400 ksec Chandra TOO

We modified the APT to do the 3rd epoch on the present target using 4 orbits simply by rearranging the visits

CURRENT TARGET visit #1 (1 orbit, done), visit #2 (2 orbits, done), visit #5 (4 orbits)

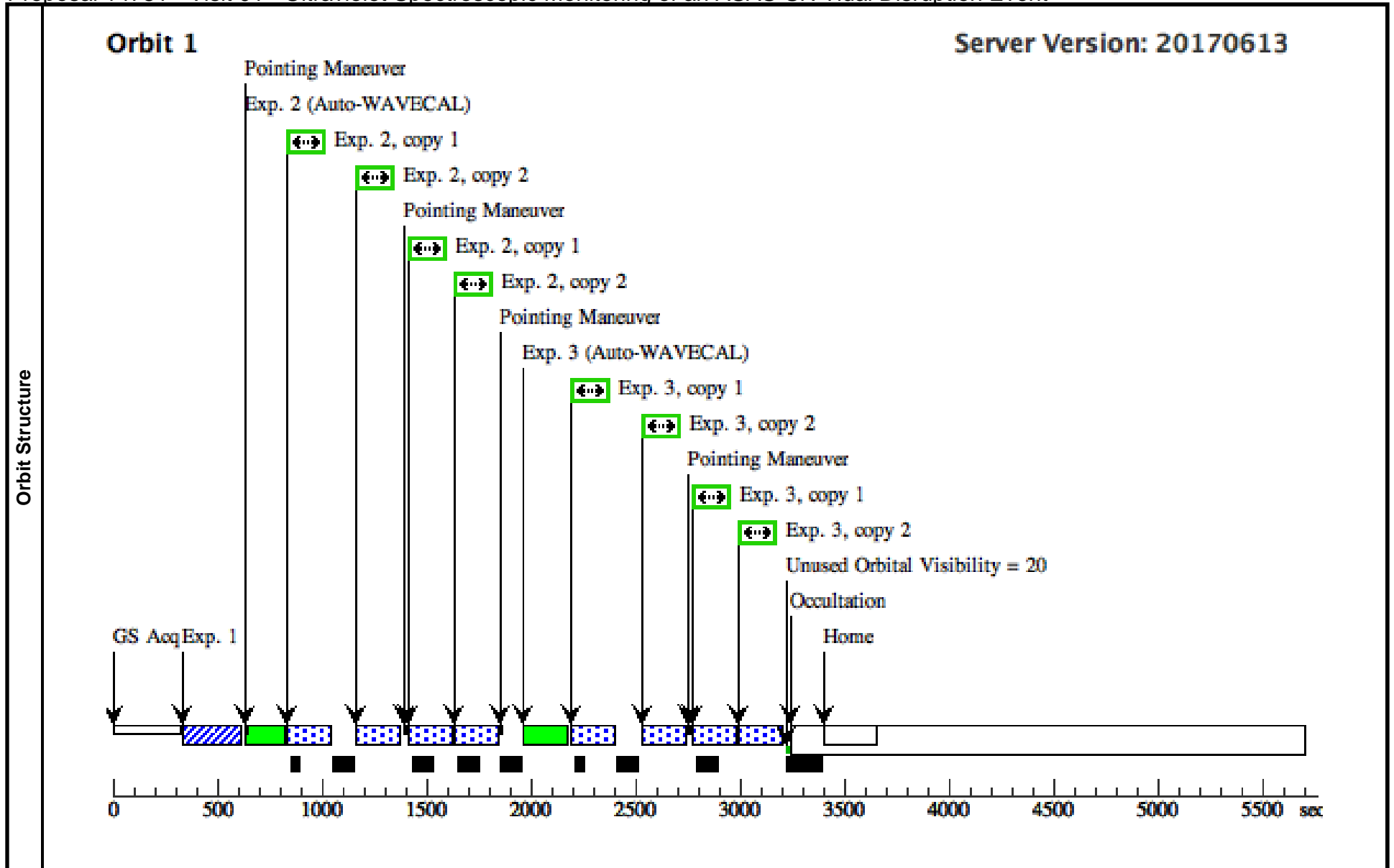
then we put in a new generic target which would use

visit #3 (2 orbits), visit #4 (3 orbits), visit #6 (5 orbits) and visit #7 (5 orbits) - we understand that we would not be able to have a disruptive trigger with any new target and that there are risks associated with the observations to be coordinated with Juno - we have left the relative timing of these visits as in the original proposal, but can be flexible about the exact timing.

Proposal 14781 - Visit 01 - Ultraviolet Spectroscopic Monitoring of an ASAS-SN Tidal Disruption Event

Wed Sep 06 18:01:15 GMT 2017

Visit	Proposal 14781, Visit 01, completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: BEFORE 17-SEP-2016:00:00:00; ON HOLD <i>On Hold Comments: requires discovery of a sufficiently bright ASAS-SN Tidal Disruption Event</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG					(2), (3)	
		Purpose=DITHER	Pattern Orientation=90.0							
		Number Of Points=2	Angle Between Sides=							
		Point Spacing=0.3829	Center Pattern=false							
		Line Spacing=								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	TDE	RA: 00 29 57.0400 (7.4876667d) Dec: +32 53 37.51 (32.89375d) Equinox: J2000		V=15.5 Swift W2 on JD 57630.8, 57635.2, 57636.6 were 5.6, 4.5, 4.2e-15 ergs/cm^2/s/A (mags 14.96, 15.20, 15.27)	Reference Frame: ICRS				
<i>Comments: The Swift W2 filter has an effective wavelength of roughly 2000A</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) TDE	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs) [==>]	[1]
	2	(STIS.sp.82 6569)	(3) TDE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A			Pattern 1, Exps 2-2 in Visit 01 (1)	100 Secs X 2 (792 Secs) [==>198.0 Secs (Pattern 1, Copy 1)] [==>198.0 Secs (Pattern 1, Copy 2)] [==>198.0 Secs (Pattern 2, Copy 1)] [==>198.0 Secs (Pattern 2, Copy 2)]	[1]
	3	(STIS.sp.82 6568)	(3) TDE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A			Pattern 1, Exps 3-3 in Visit 01 (1)	100 Secs X 2 (792 Secs) [==>198.0 Secs (Pattern 1, Copy 1)] [==>198.0 Secs (Pattern 1, Copy 2)] [==>198.0 Secs (Pattern 2, Copy 1)] [==>198.0 Secs (Pattern 2, Copy 2)]	[1]



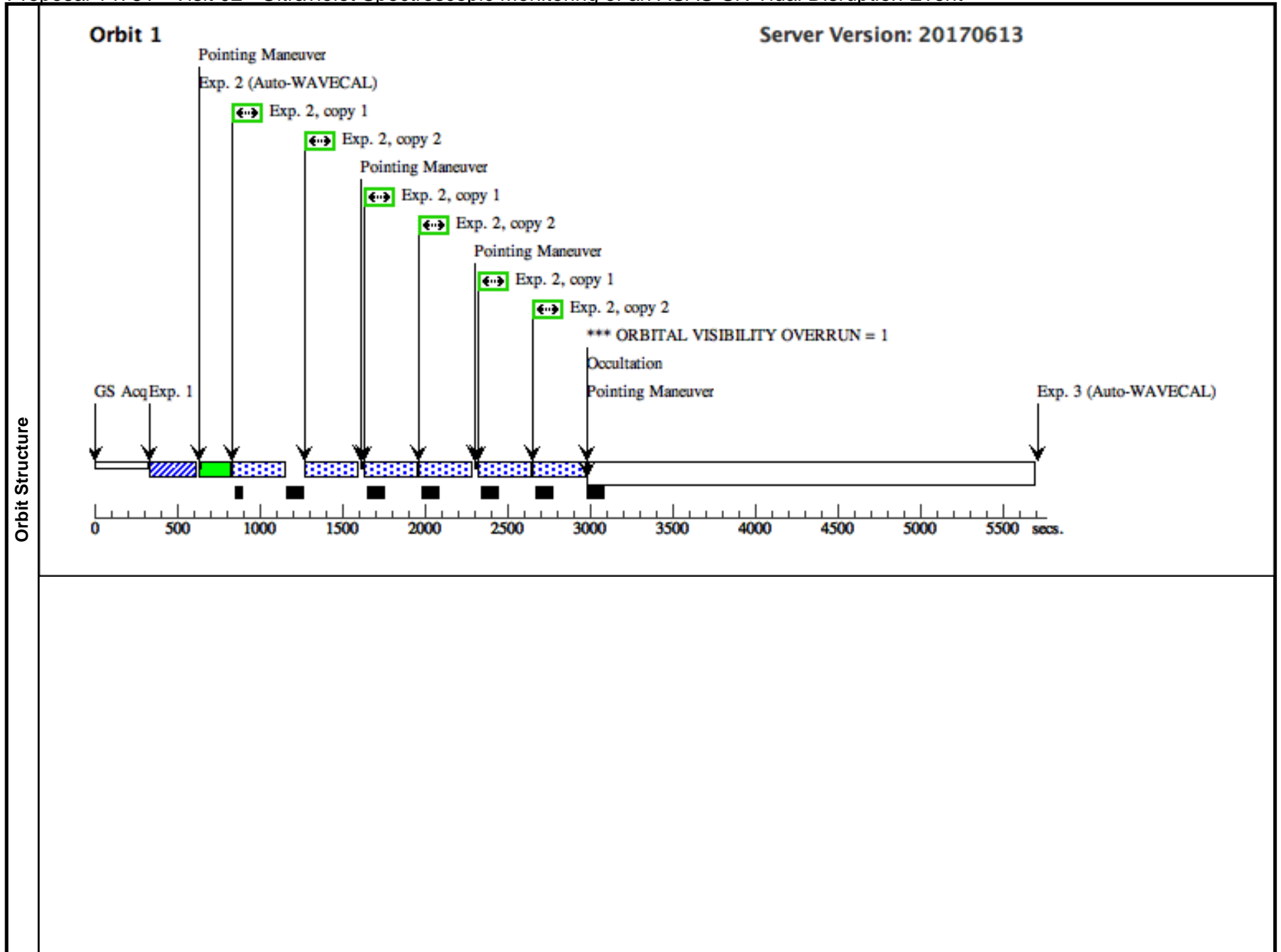
Proposal 14781 - Visit 02 - Ultraviolet Spectroscopic Monitoring of an ASAS-SN Tidal Disruption Event

Wed Sep 06 18:01:15 GMT 2017

Visit	Proposal 14781, Visit 02, completed Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100%; AFTER 01 BY 13 D TO 17 D					
	(Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Diagnosics						
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(2)	Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.3829 Center Pattern=false Line Spacing=		(2), (3)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	TDE	RA: 00 29 57.0400 (7.4876667d) Dec: +32 53 37.51 (32.89375d) Equinox: J2000		V=15.5 Swift W2 on JD 57630.8, 57635.2, 57636.6 were 5.6, 4.5, 4.2e-15 ergs/cm^2/s/A (mags 14 .96, 15.20, 15.27)	Reference Frame: ICRS
<i>Comments: The Swift W2 filter has an effective wavelength of roughly 2000A</i>						

Proposal 14781 - Visit 02 - Ultraviolet Spectroscopic Monitoring of an ASAS-SN Tidal Disruption Event

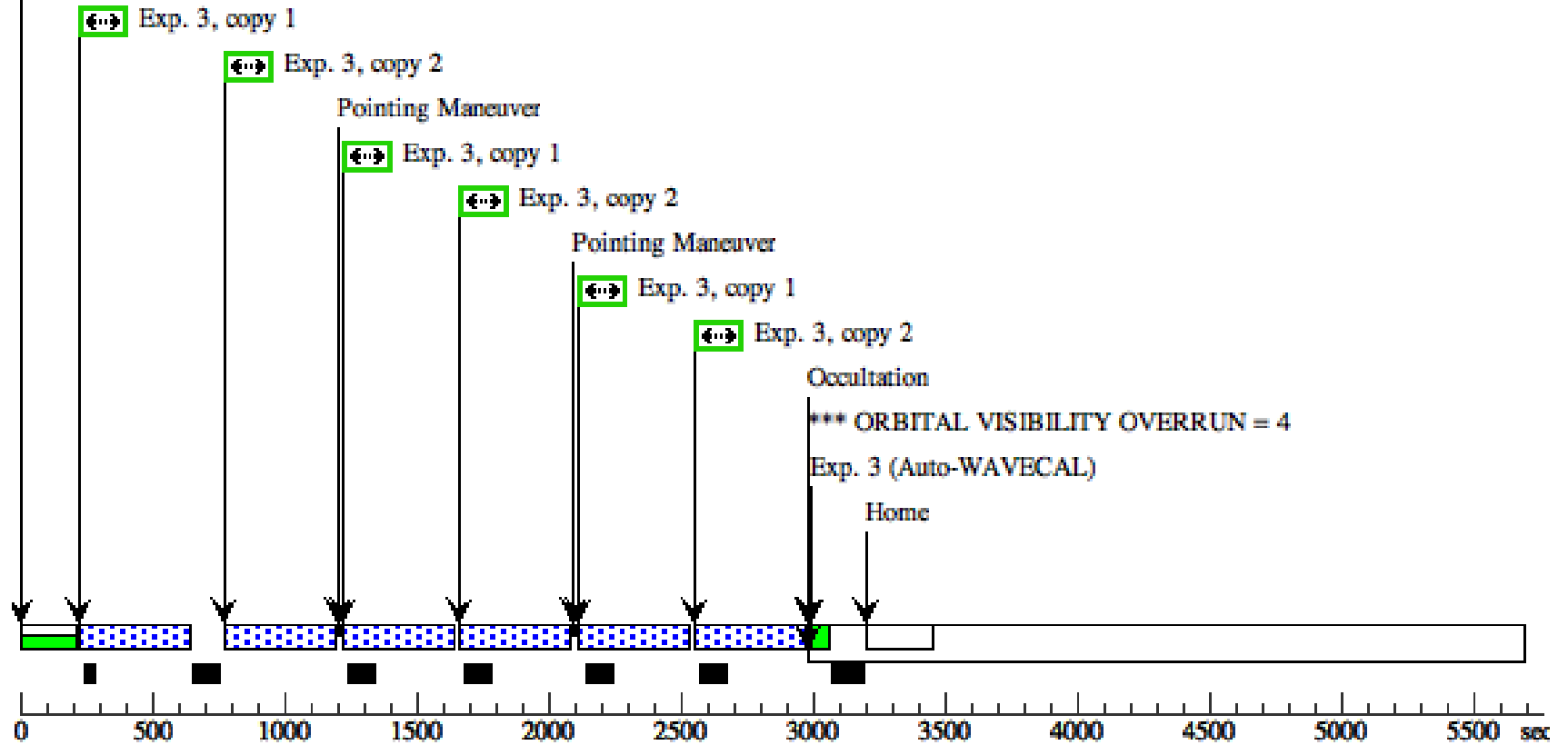
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
Exposures	1	(3) TDE	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs)		
								[==>]		[1]
	2	(STIS.sp.82 6569) (3) TDE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A			Pattern 2, Exps 2-2 i n Visit 02 (2)	300 Secs X 2 (1854 Secs)		
								[==>309.0 Secs (Pattern 1, Copy 1)]		[1]
								[==>309.0 Secs (Pattern 1, Copy 2)]		
								[==>309.0 Secs (Pattern 2, Copy 1)]		
								[==>309.0 Secs (Pattern 2, Copy 2)]		
								[==>309.0 Secs (Pattern 3, Copy 1)]		
								[==>309.0 Secs (Pattern 3, Copy 2)]		
	3	(STIS.sp.82 6568) (3) TDE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A			Pattern 2, Exps 3-3 i n Visit 02 (2)	300 Secs X 2 (2466 Secs)		
							[==>411.0 Secs (Pattern 1, Copy 1)]		[2]	
							[==>411.0 Secs (Pattern 1, Copy 2)]			
							[==>411.0 Secs (Pattern 2, Copy 1)]			
							[==>411.0 Secs (Pattern 2, Copy 2)]			
							[==>411.0 Secs (Pattern 3, Copy 1)]			
							[==>411.0 Secs (Pattern 3, Copy 2)]			



Orbit 2

GS Reacq

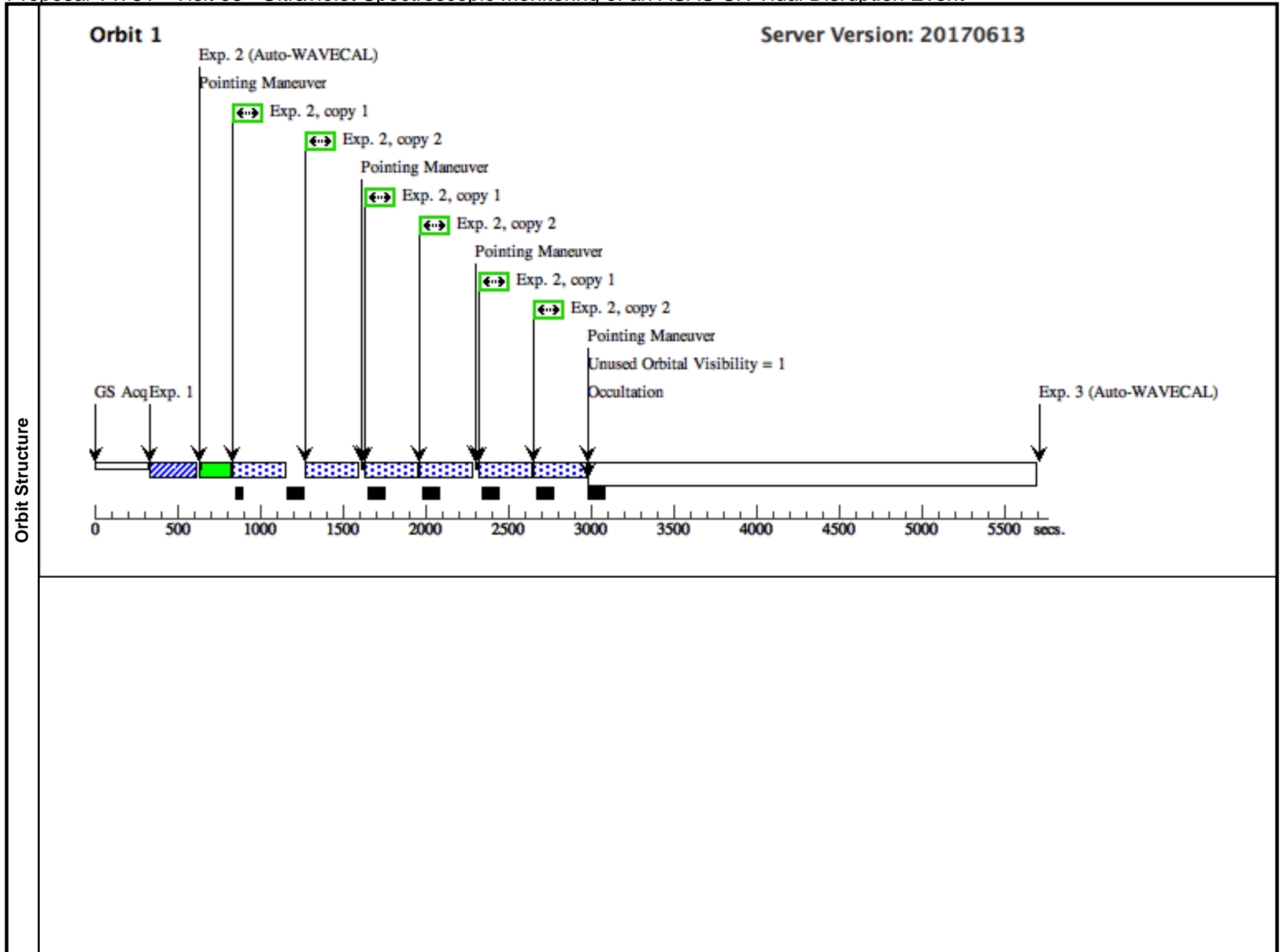
Exp. 3 (cont'd) (Auto-WAVECAL)

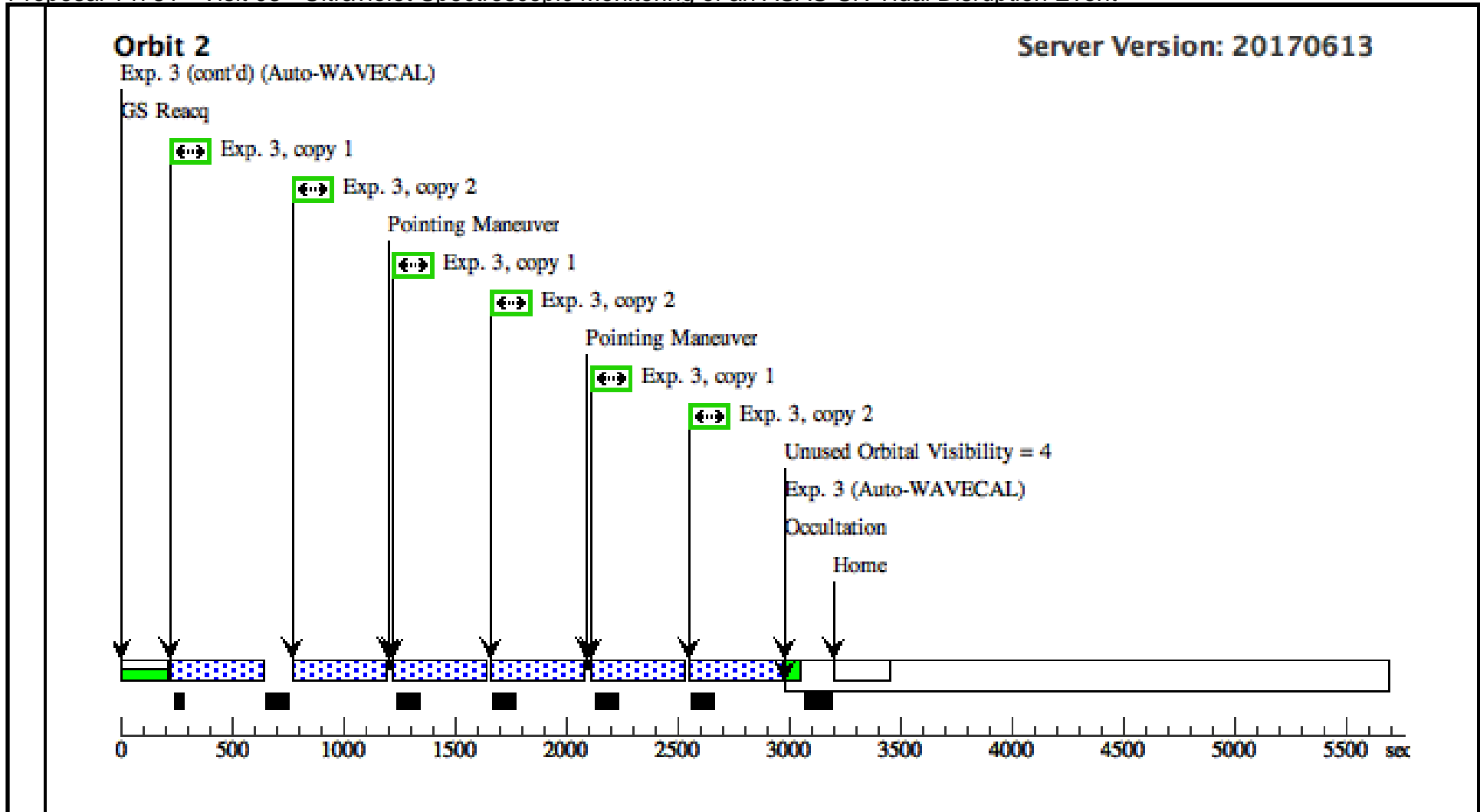


Proposal 14781 - Visit 03 - Ultraviolet Spectroscopic Monitoring of an ASAS-SN Tidal Disruption Event

Wed Sep 06 18:01:16 GMT 2017

Visit	Proposal 14781, Visit 03, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100%; BEFORE 01-JAN-2018:00:00:00; ON HOLD ; TOO RESPONSE TIME 14.0D <i>On Hold Comments: discovery of a UV bright TDE</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(2)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG						(2), (3)
		Purpose=DITHER	Pattern Orientation=90.0							
		Number Of Points=3	Angle Between Sides=							
		Point Spacing=0.3829	Center Pattern=false							
		Line Spacing=								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	NEWTDE	RA: 17 19 55.8490 (259.9827042d) Dec: +41 40 49.32 (41.68037d) Equinox: J2000		V=16	Reference Frame: ICRS				
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(5) NEWTDE	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs)	
									[==>]	[1]
	2	(STIS.sp.82 6569)	(5) NEWTDE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A			Pattern 2, Exps 2-2 in Visit 03 (2)	300 Secs X 2 (1854 Secs)	
									[==>309.0 Secs (Pattern 1, Copy 1)]	[1]
									[==>309.0 Secs (Pattern 1, Copy 2)]	
									[==>309.0 Secs (Pattern 2, Copy 1)]	
									[==>309.0 Secs (Pattern 2, Copy 2)]	
									[==>309.0 Secs (Pattern 3, Copy 1)]	
									[==>309.0 Secs (Pattern 3, Copy 2)]	
	3	(STIS.sp.82 6568)	(5) NEWTDE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A			Pattern 2, Exps 3-3 in Visit 03 (2)	300 Secs X 2 (2460 Secs)	
									[==>410.0 Secs (Pattern 1, Copy 1)]	[2]
									[==>410.0 Secs (Pattern 1, Copy 2)]	
									[==>410.0 Secs (Pattern 2, Copy 1)]	
									[==>410.0 Secs (Pattern 2, Copy 2)]	
									[==>410.0 Secs (Pattern 3, Copy 1)]	
									[==>410.0 Secs (Pattern 3, Copy 2)]	





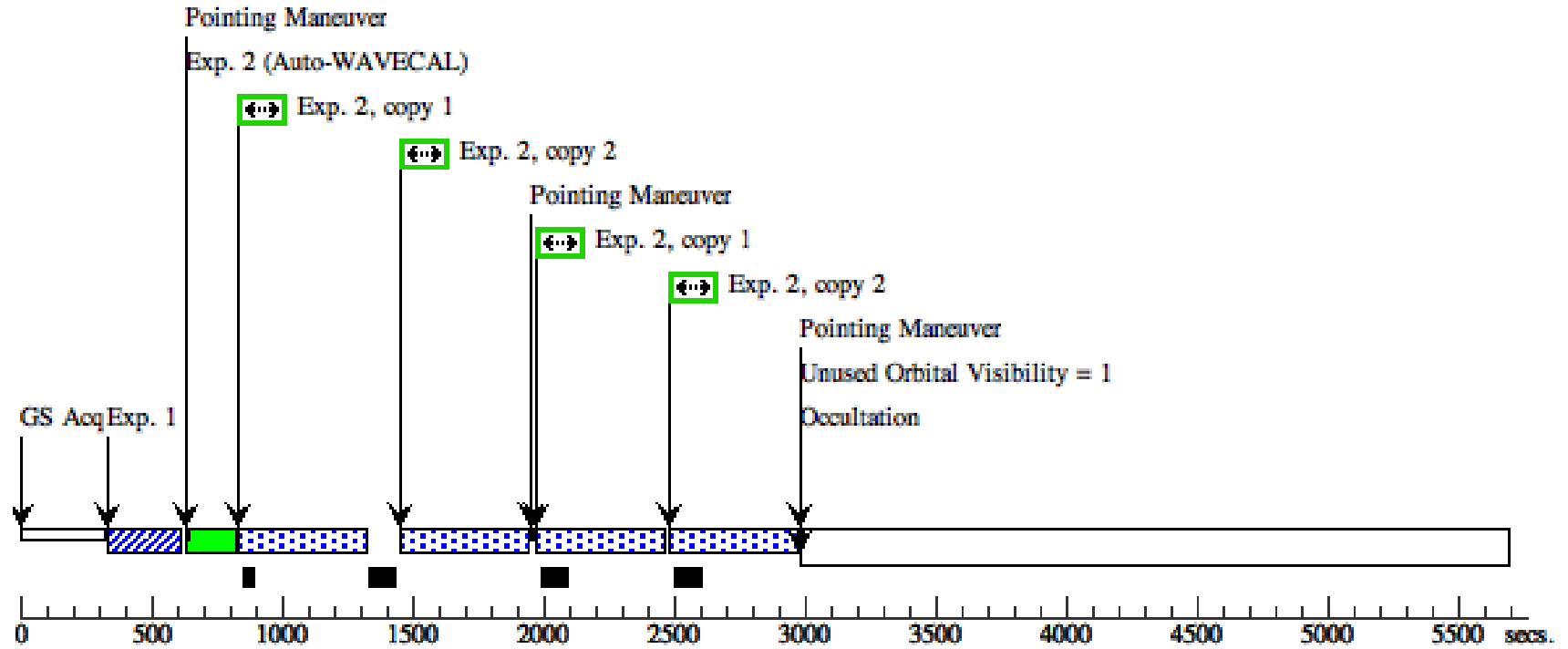
Proposal 14781 - Visit 04 - Ultraviolet Spectroscopic Monitoring of an ASAS-SN Tidal Disruption Event

Wed Sep 06 18:01:16 GMT 2017

Visit	Proposal 14781, Visit 04, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100%; AFTER 03 BY 13 D TO 17 D; ON HOLD <i>On Hold Comments: schedule as given in proposal</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(2)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG						
		Purpose=DITHER	Pattern Orientation=90.0							
		Number Of Points=3	Angle Between Sides=							
		Point Spacing=0.3829	Center Pattern=false							
		Line Spacing=								
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous		
	(5)	NEWTDE	RA: 17 19 55.8490 (259.9827042d)				V=16	Reference Frame: ICRS		
			Dec: +41 40 49.32 (41.68037d)							
			Equinox: J2000							
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(5) NEWTDE	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs)	
								[==>]	[1]	
	2	(STIS.sp.82 6569)	(5) NEWTDE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A			Pattern 2, Exps 2-2 in Visit 04 (2)	500 Secs X 2 (2920 Secs)	
								[==>481.0 Secs (Pattern 1, Copy 1)]		[1]
								[==>481.0 Secs (Pattern 1, Copy 2)]		
								[==>481.0 Secs (Pattern 2, Copy 1)]		
								[==>481.0 Secs (Pattern 2, Copy 2)]		
								[==>498.0 Secs (Pattern 3, Copy 1)]		[2]
								[==>498.0 Secs (Pattern 3, Copy 2)]		
	3	(STIS.sp.82 6568)	(5) NEWTDE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A			Pattern 2, Exps 3-3 in Visit 04 (2)	500 Secs X 2 (3420 Secs)	
								[==>498.0 Secs (Pattern 1, Copy 1)]		[2]
								[==>498.0 Secs (Pattern 1, Copy 2)]		
								[==>606.0 Secs (Pattern 2, Copy 1)]		[3]
								[==>606.0 Secs (Pattern 2, Copy 2)]		
								[==>606.0 Secs (Pattern 3, Copy 1)]		
								[==>606.0 Secs (Pattern 3, Copy 2)]		

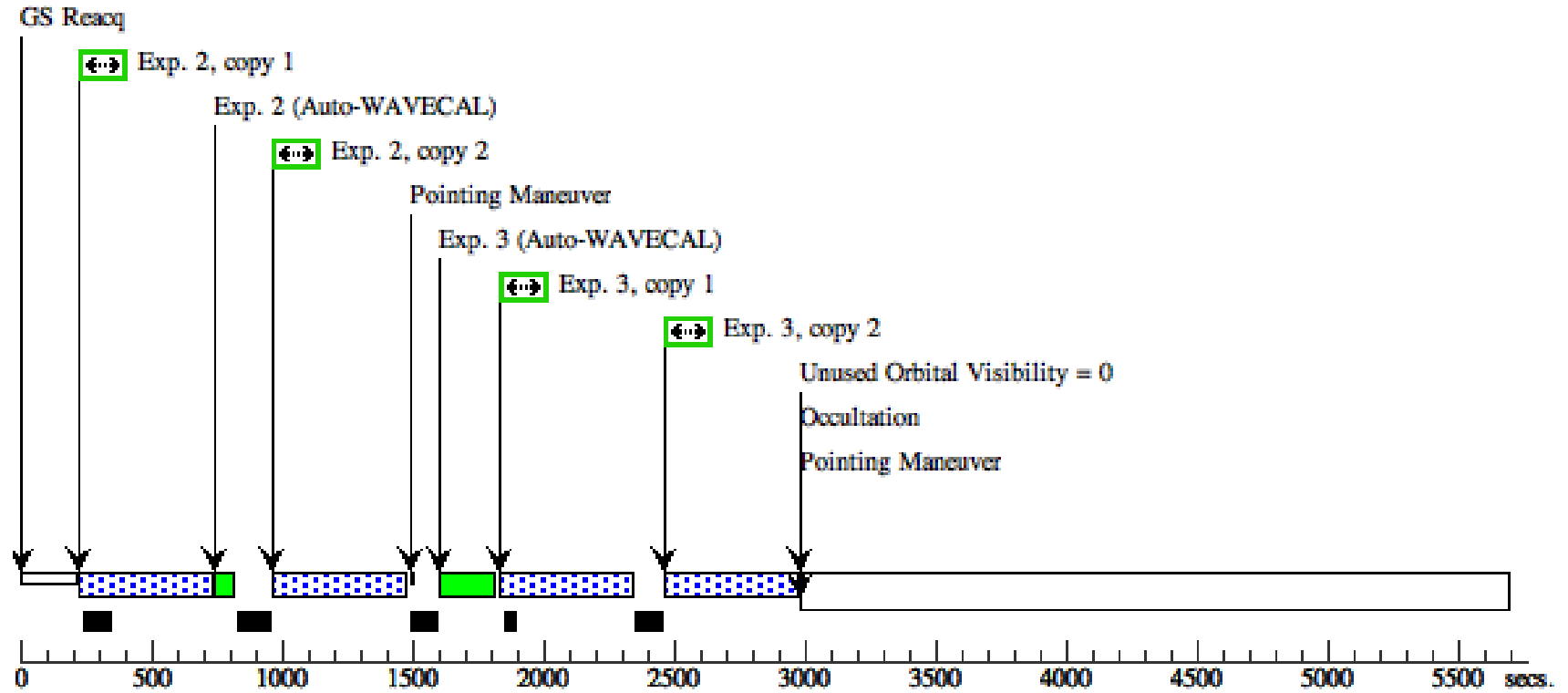
Orbit 1

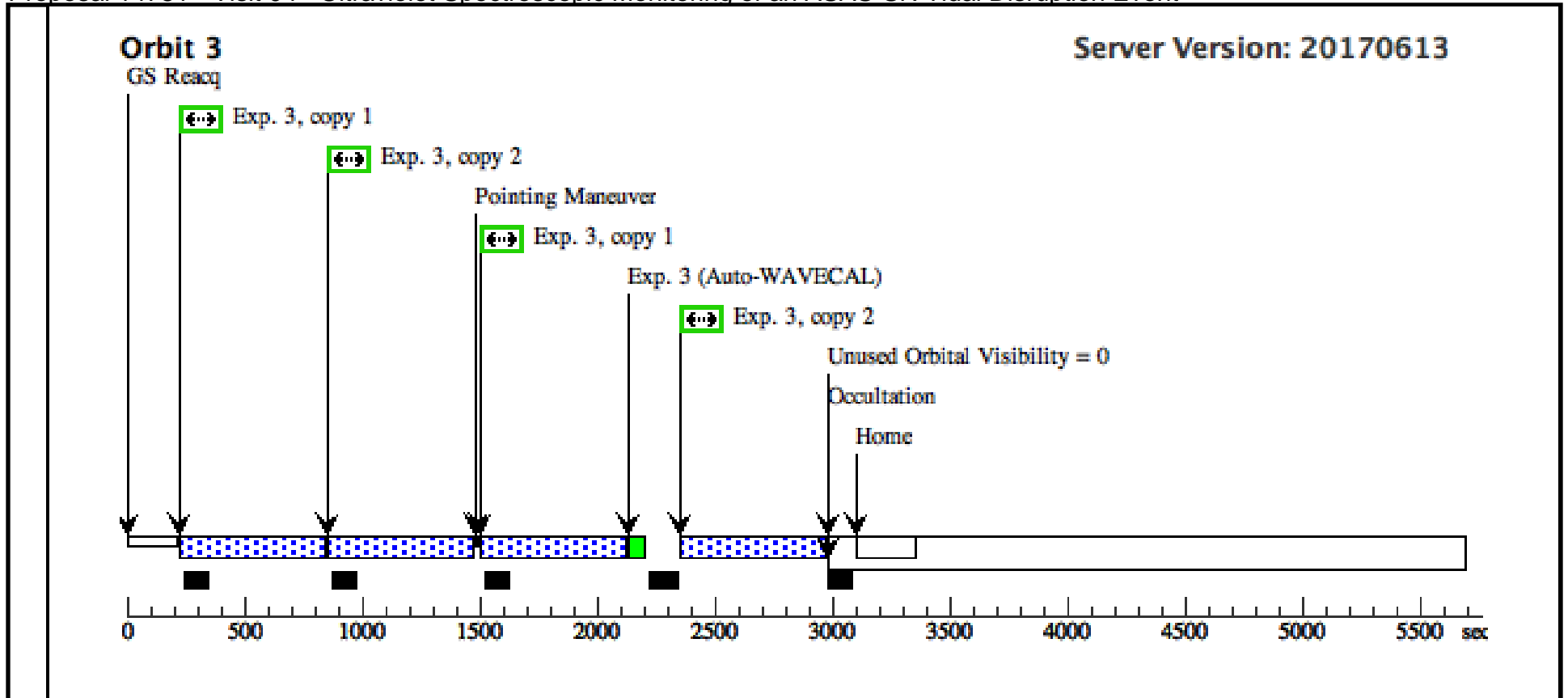
Orbit Structure



Orbit 2

Server Version: 20170613





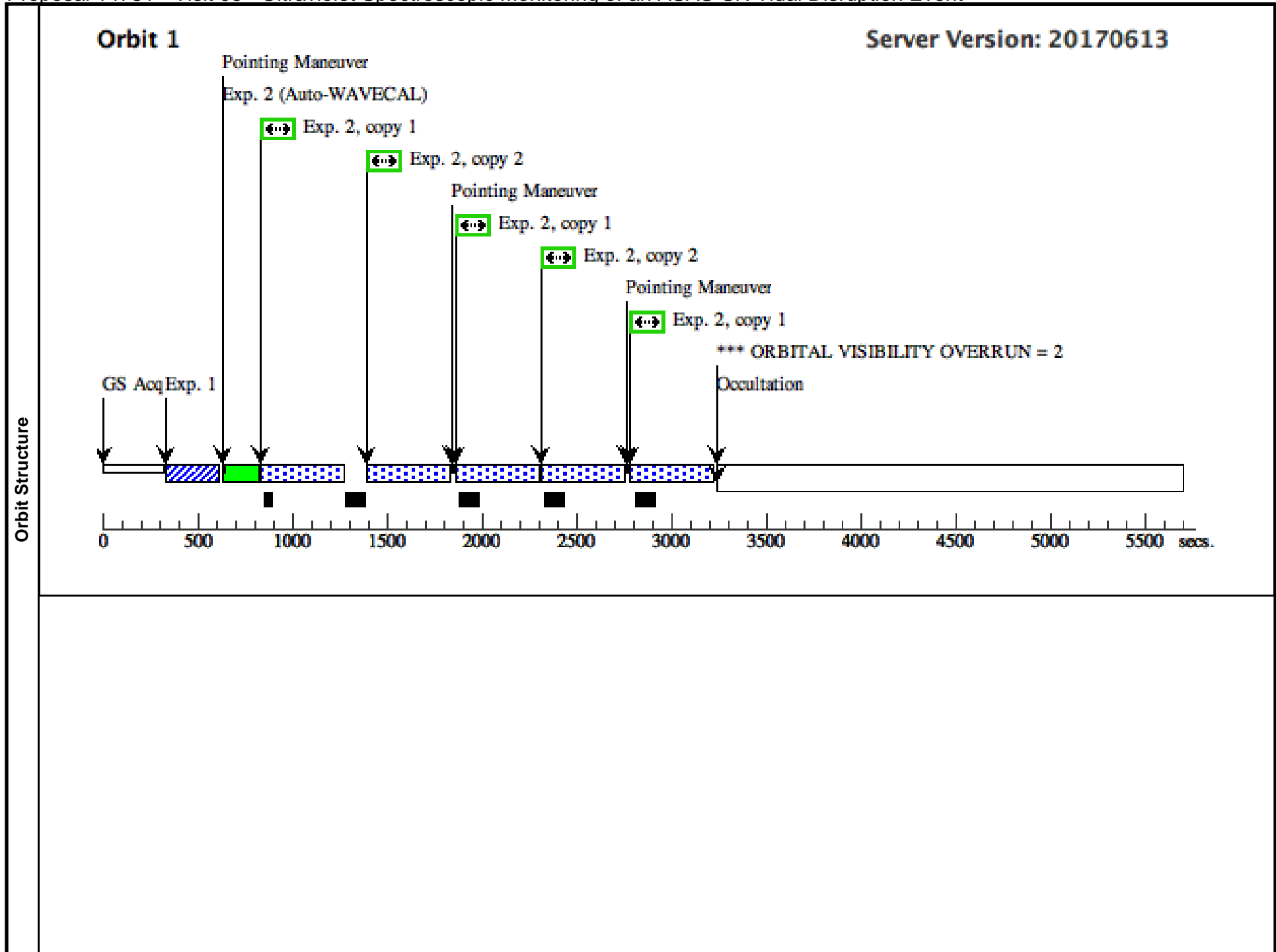
Proposal 14781 - Visit 05 - Ultraviolet Spectroscopic Monitoring of an ASAS-SN Tidal Disruption Event

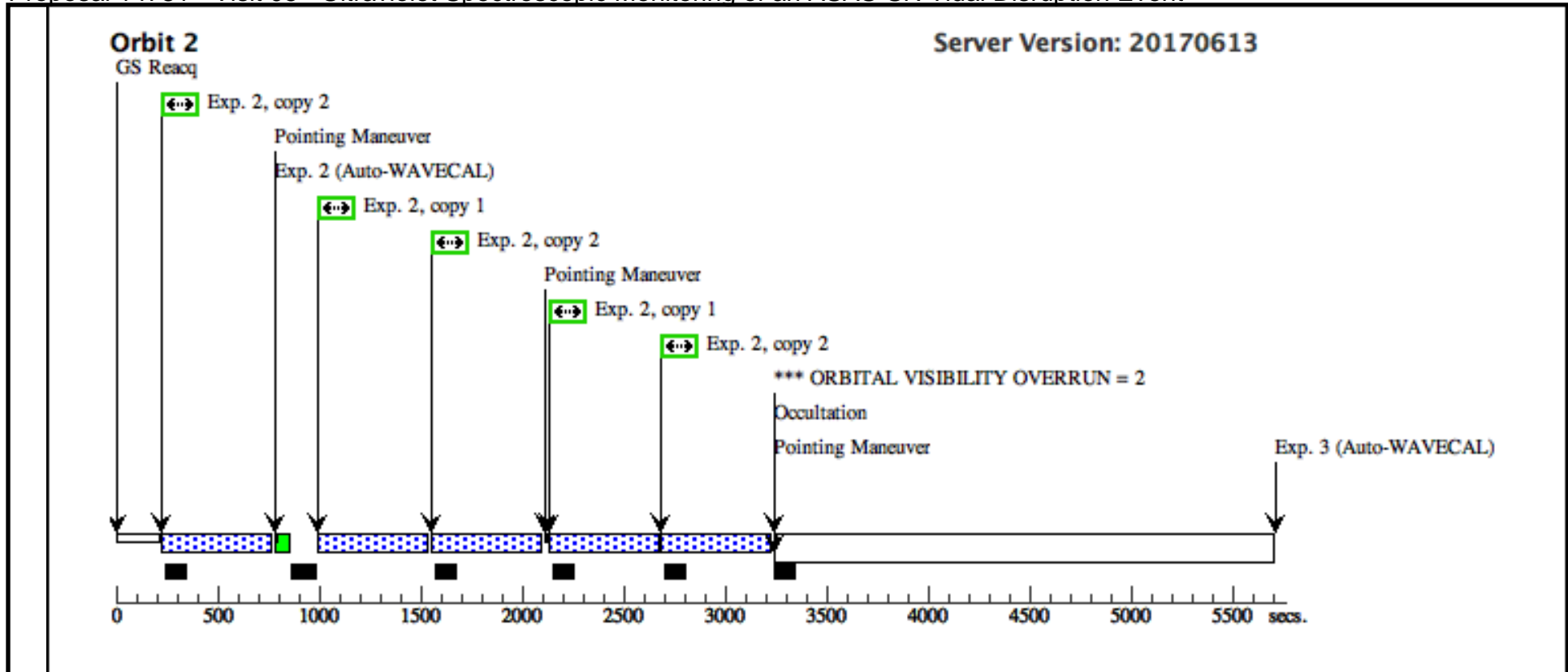
Wed Sep 06 18:01:16 GMT 2017

Visit	Proposal 14781, Visit 05, completed Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: AFTER 02 BY 13 D TO 30 D					
	(Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Diagnosics						
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(4)	Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=5 Angle Between Sides= Point Spacing=0.3829 Center Pattern=false Line Spacing=		(2), (3)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	TDE	RA: 00 29 57.0400 (7.4876667d) Dec: +32 53 37.51 (32.89375d) Equinox: J2000		V=15.5 Swift W2 on JD 57630.8, 57635.2, 57636.6 were 5.6, 4.5, 4.2e-15 ergs/cm^2/s/A (mags 14 .96, 15.20, 15.27)	Reference Frame: ICRS
<i>Comments: The Swift W2 filter has an effective wavelength of roughly 2000A</i>						

Proposal 14781 - Visit 05 - Ultraviolet Spectroscopic Monitoring of an ASAS-SN Tidal Disruption Event

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(3) TDE	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs)	
								[==>]	[1]
	2	(STIS.sp.82 6569)	(3) TDE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A		Pattern 4, Exps 2-2 in Visit 05 (4)	400 Secs X 2 (4785 Secs)	
								[==>426.0 Secs (Pattern 1, Copy 1)]	[1]
								[==>426.0 Secs (Pattern 1, Copy 2)]	
								[==>426.0 Secs (Pattern 2, Copy 1)]	
								[==>426.0 Secs (Pattern 2, Copy 2)]	
								[==>426.0 Secs (Pattern 3, Copy 1)]	
								[==>531.0 Secs (Pattern 3, Copy 2)]	[2]
								[==>531.0 Secs (Pattern 4, Copy 1)]	
								[==>531.0 Secs (Pattern 4, Copy 2)]	
								[==>531.0 Secs (Pattern 5, Copy 1)]	
							[==>531.0 Secs (Pattern 5, Copy 2)]		
3	(STIS.sp.82 6568)	(3) TDE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A		Pattern 4, Exps 3-3 in Visit 05 (4)	500 Secs X 2 (5500 Secs)		
							[==>548.0 Secs (Pattern 1, Copy 1)]	[3]	
							[==>548.0 Secs (Pattern 1, Copy 2)]		
							[==>548.0 Secs (Pattern 2, Copy 1)]		
							[==>548.0 Secs (Pattern 2, Copy 2)]		
							[==>548.0 Secs (Pattern 3, Copy 1)]		
							[==>552.0 Secs (Pattern 3, Copy 2)]	[4]	
							[==>552.0 Secs (Pattern 4, Copy 1)]		
							[==>552.0 Secs (Pattern 4, Copy 2)]		
							[==>552.0 Secs (Pattern 5, Copy 1)]		
							[==>552.0 Secs (Pattern 5, Copy 2)]		



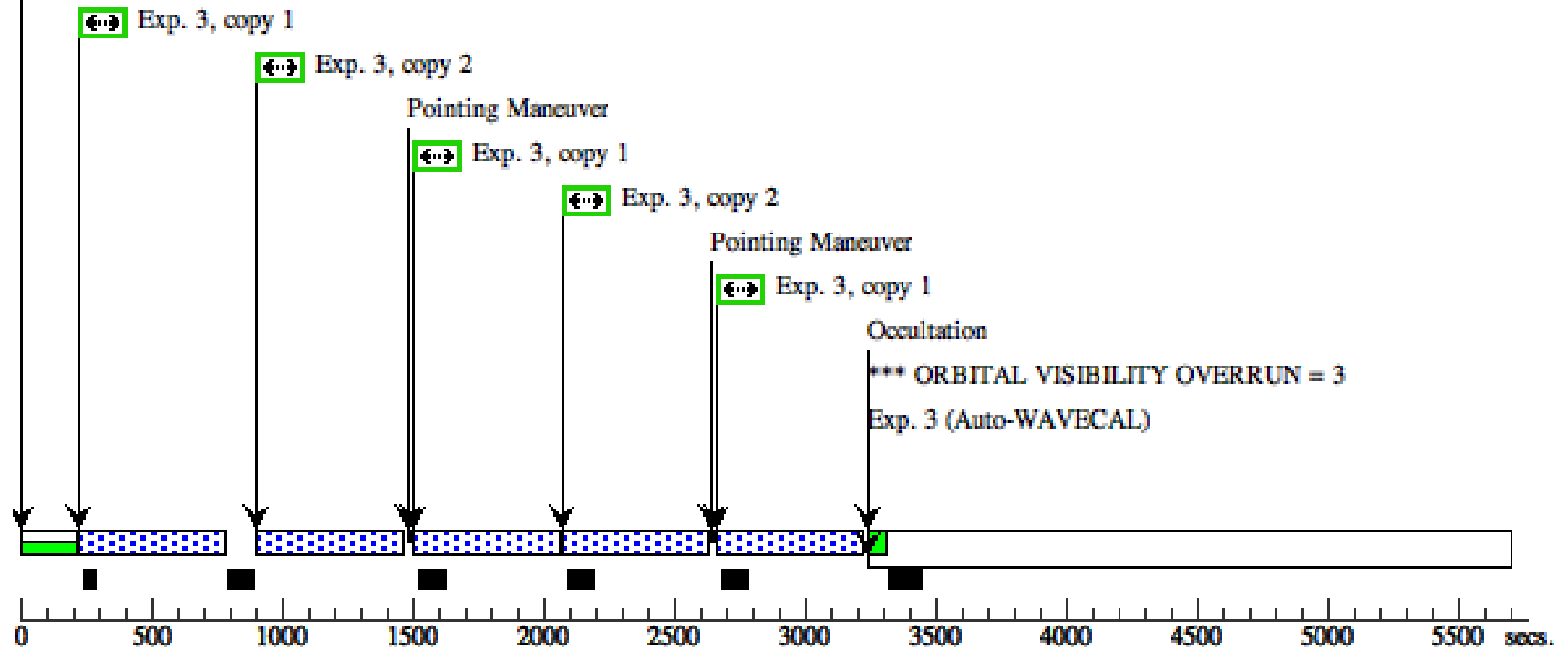


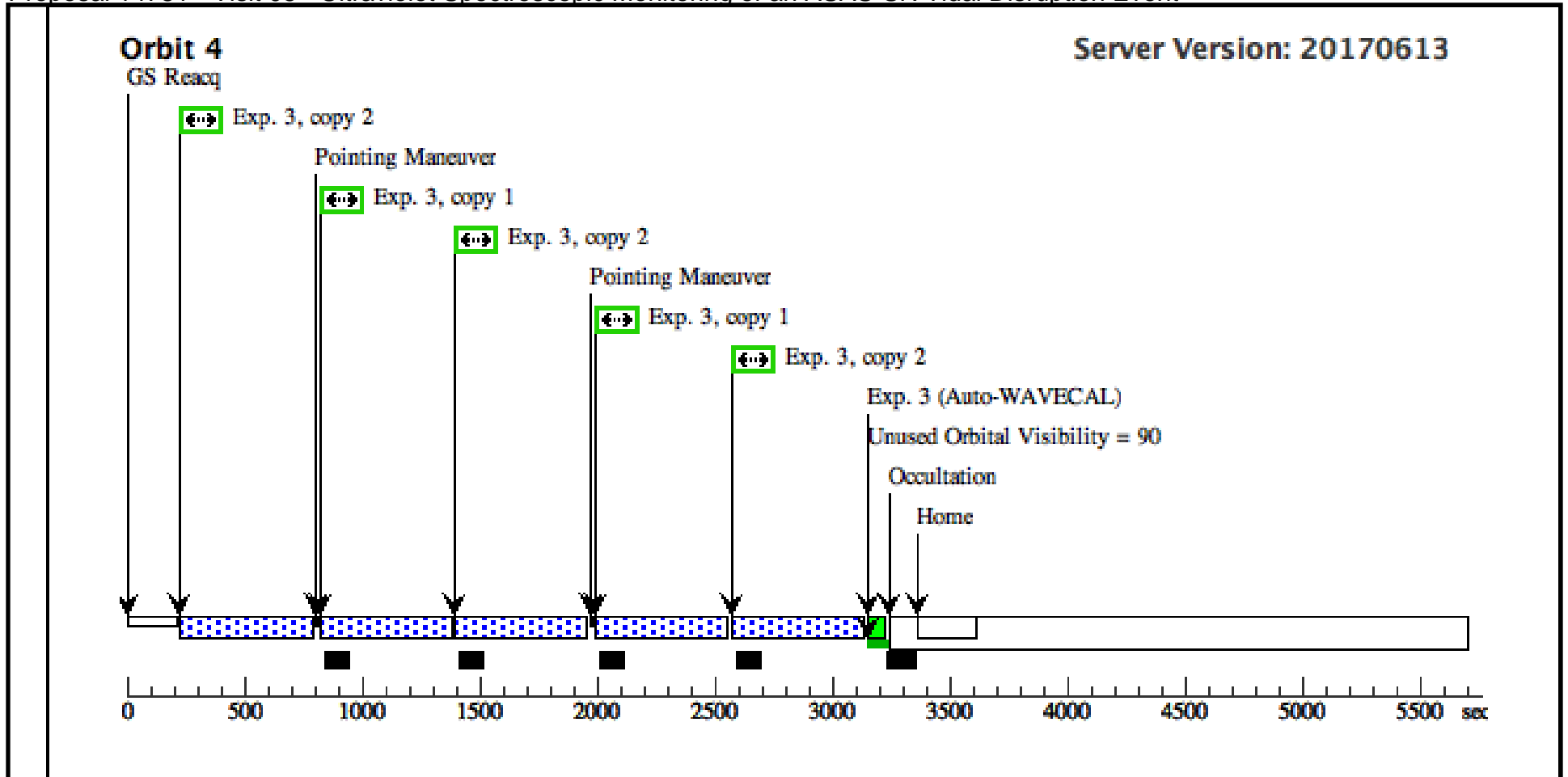
Orbit 3

Server Version: 20170613

GS Reacq

Exp. 3 (cont'd) (Auto-WAVECAL)





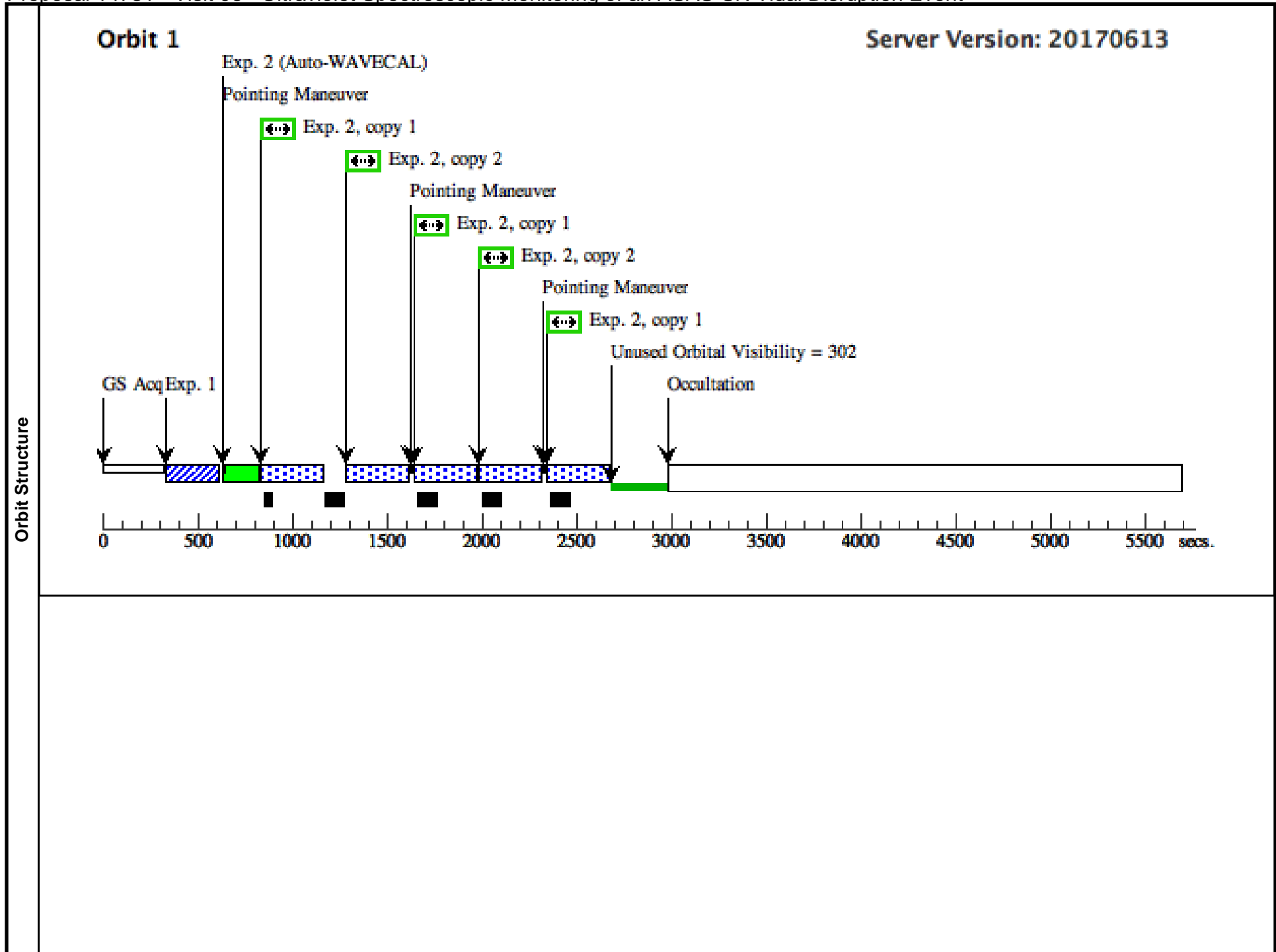
Proposal 14781 - Visit 06 - Ultraviolet Spectroscopic Monitoring of an ASAS-SN Tidal Disruption Event

Wed Sep 06 18:01:16 GMT 2017

Visit	Proposal 14781, Visit 06, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100%; AFTER 04 BY 13 D TO 17 D; ON HOLD On Hold Comments: after visit #4					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
	(1)	Pattern Type=STIS-ALONG-SLIT Purpose=DITHER Number Of Points=2 Point Spacing=0.3829 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=false		(3), (5)	
	(4)	Pattern Type=STIS-ALONG-SLIT Purpose=DITHER Number Of Points=5 Point Spacing=0.3829 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=false		(2), (4)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	NEWTDE	RA: 17 19 55.8490 (259.9827042d) Dec: +41 40 49.32 (41.68037d) Equinox: J2000		V=16	Reference Frame: ICRS

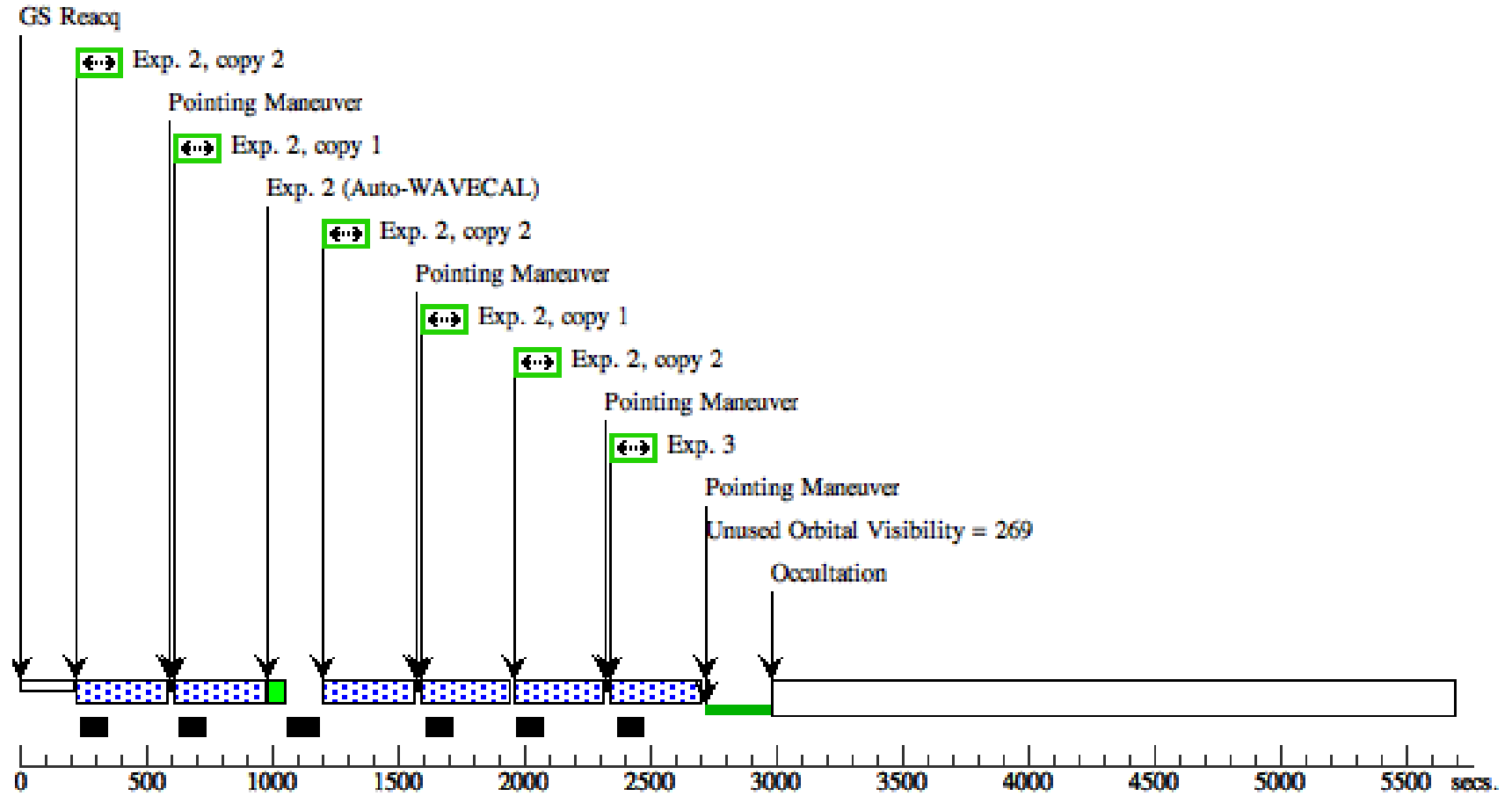
Proposal 14781 - Visit 06 - Ultraviolet Spectroscopic Monitoring of an ASAS-SN Tidal Disruption Event

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(5) NEWTDE	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs)	
								[==>]	[1]
	2	(STIS.sp.82 6569)	(5) NEWTDE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A		Pattern 4, Exps 2-2 in Visit 06 (4)	400 Secs X 2 (3290 Secs)	
								[==>315.0 Secs (Pattern 1, Copy 1)]	[1]
								[==>315.0 Secs (Pattern 1, Copy 2)]	
								[==>315.0 Secs (Pattern 2, Copy 1)]	
								[==>315.0 Secs (Pattern 2, Copy 2)]	
								[==>315.0 Secs (Pattern 3, Copy 1)]	
								[==>343.0 Secs (Pattern 3, Copy 2)]	[2]
								[==>343.0 Secs (Pattern 4, Copy 1)]	
								[==>343.0 Secs (Pattern 4, Copy 2)]	
								[==>343.0 Secs (Pattern 5, Copy 1)]	
								[==>343.0 Secs (Pattern 5, Copy 2)]	
	3	(STIS.sp.82 6569)	(5) NEWTDE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A		Pattern 1, Exps 3-3 in Visit 06 (1)	400 Secs (664 Secs)	
								[==>343.0 Secs (Pattern 1)]	[2]
							[==>321.0 Secs (Pattern 2)]	[3]	
4	(STIS.sp.82 6568)	(5) NEWTDE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A		Pattern 4, Exps 4-4 in Visit 06 (4)	500 Secs X 2 (4818 Secs)		
							[==>522.0 Secs (Pattern 1, Copy 1)]	[3]	
							[==>522.0 Secs (Pattern 1, Copy 2)]		
							[==>522.0 Secs (Pattern 2, Copy 1)]		
							[==>420.0 Secs (Pattern 2, Copy 2)]	[4]	
							[==>420.0 Secs (Pattern 3, Copy 1)]		
							[==>420.0 Secs (Pattern 3, Copy 2)]		
							[==>420.0 Secs (Pattern 4, Copy 1)]		
							[==>420.0 Secs (Pattern 4, Copy 2)]		
							[==>576.0 Secs (Pattern 5, Copy 1)]	[5]	
							[==>576.0 Secs (Pattern 5, Copy 2)]		
5	(STIS.sp.82 6568)	(5) NEWTDE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A		Pattern 1, Exps 5-5 in Visit 06 (1)	500 Secs (991 Secs)		
							[==>576.0 Secs (Pattern 1)]	[5]	
							[==>415.0 Secs (Pattern 2)]		



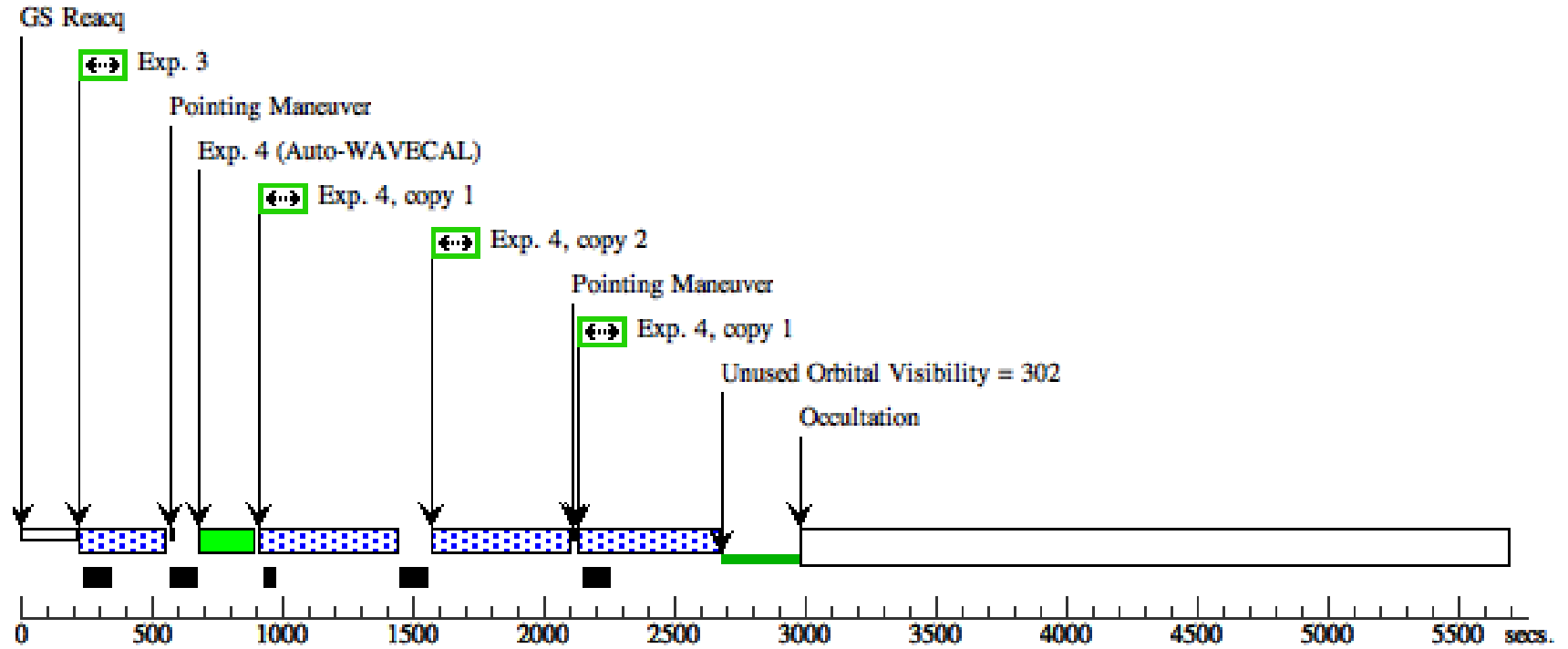
Orbit 2

Server Version: 20170613



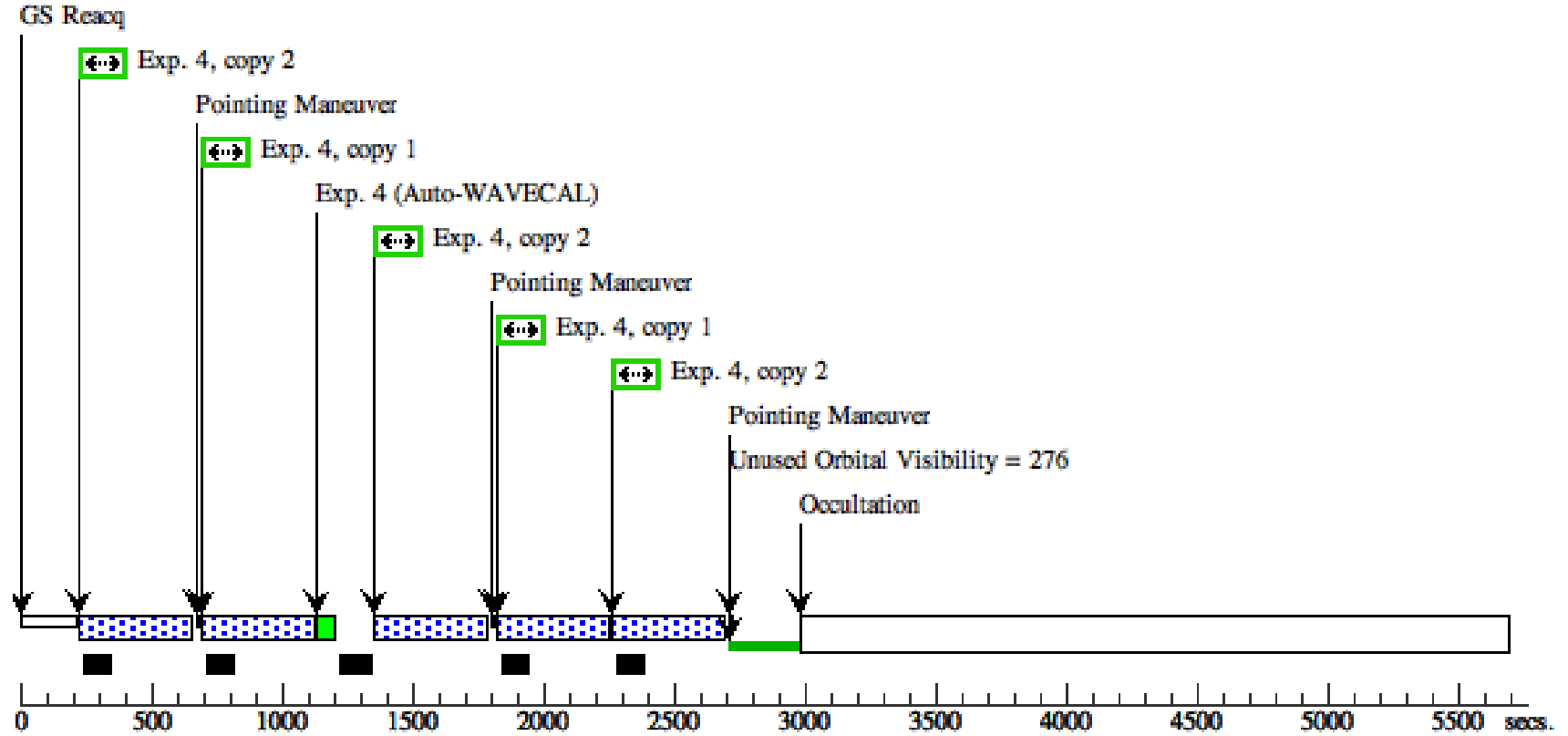
Orbit 3

Server Version: 20170613



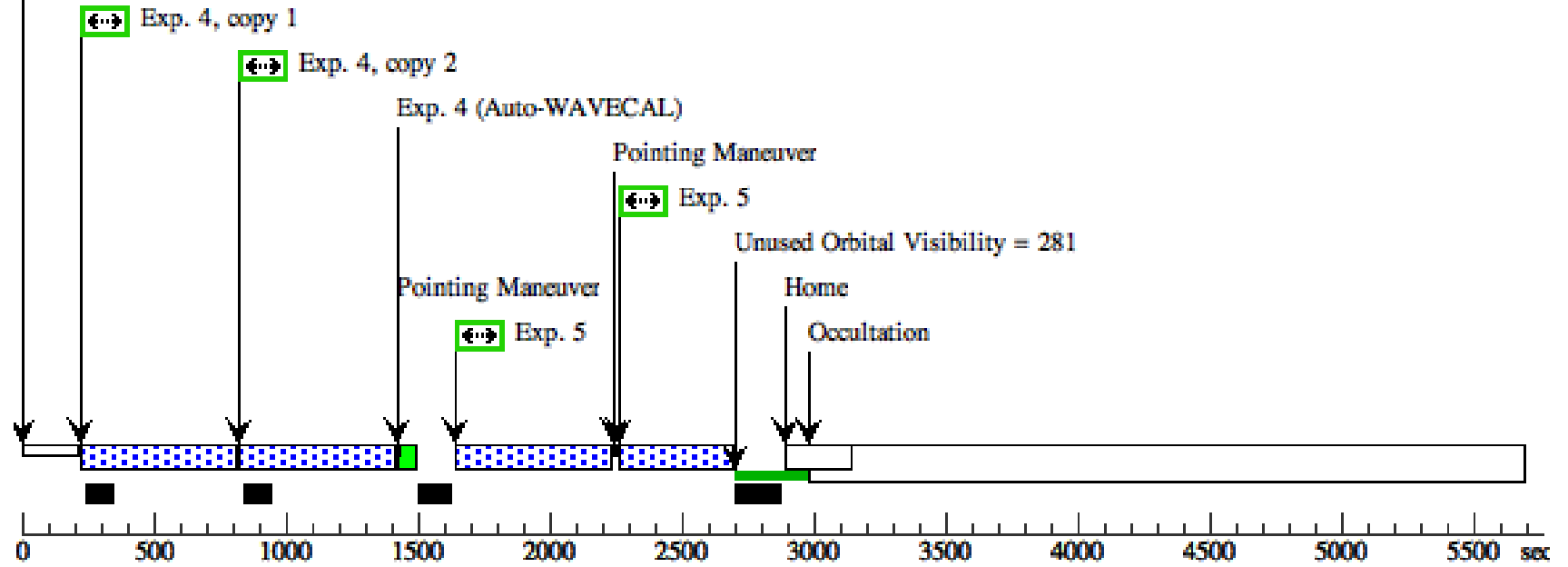
Orbit 4

Server Version: 20170613



Orbit 5

GS Reacq



Proposal 14781 - Visit 07 - Ultraviolet Spectroscopic Monitoring of an ASAS-SN Tidal Disruption Event

Wed Sep 06 18:01:16 GMT 2017

Visit	Proposal 14781, Visit 07, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100%; AFTER 06 BY 13 D TO 17 D; ON HOLD On Hold Comments: after visit #6					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
	(1)	Pattern Type=STIS-ALONG-SLIT Purpose=DITHER Number Of Points=2 Point Spacing=0.3829 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=false		(3), (5)	
	(4)	Pattern Type=STIS-ALONG-SLIT Purpose=DITHER Number Of Points=5 Point Spacing=0.3829 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=false		(2), (4)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	NEWTDE	RA: 17 19 55.8490 (259.9827042d) Dec: +41 40 49.32 (41.68037d) Equinox: J2000		V=16	Reference Frame: ICRS

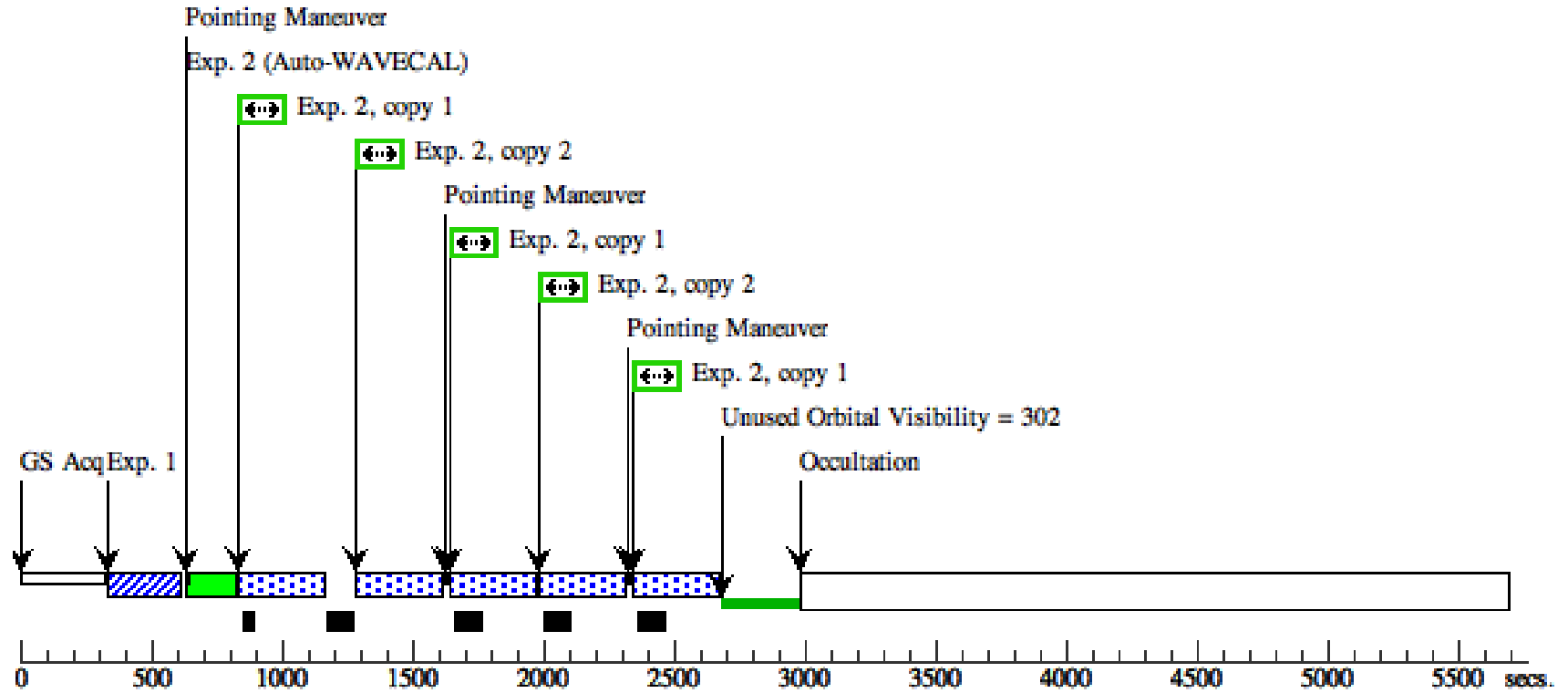
Proposal 14781 - Visit 07 - Ultraviolet Spectroscopic Monitoring of an ASAS-SN Tidal Disruption Event

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	(5) NEWTDE	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs)		
								[==>]	[1]	
	2	(STIS.sp.82 6569)	(5) NEWTDE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A			Pattern 4, Exps 2-2 in Visit 07 (4)	400 Secs X 2 (3290 Secs)	
								[==>315.0 Secs (Pattern 1, Copy 1)]	[1]	
								[==>315.0 Secs (Pattern 1, Copy 2)]		
								[==>315.0 Secs (Pattern 2, Copy 1)]		
								[==>315.0 Secs (Pattern 2, Copy 2)]		
								[==>315.0 Secs (Pattern 3, Copy 1)]		
								[==>343.0 Secs (Pattern 3, Copy 2)]	[2]	
								[==>343.0 Secs (Pattern 4, Copy 1)]		
								[==>343.0 Secs (Pattern 4, Copy 2)]		
								[==>343.0 Secs (Pattern 5, Copy 1)]		
								[==>343.0 Secs (Pattern 5, Copy 2)]		
	3	(STIS.sp.82 6569)	(5) NEWTDE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A			Pattern 1, Exps 3-3 in Visit 07 (1)	400 Secs (664 Secs)	
								[==>343.0 Secs (Pattern 1)]	[2]	
							[==>321.0 Secs (Pattern 2)]	[3]		
4	(STIS.sp.82 6568)	(5) NEWTDE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A			Pattern 4, Exps 4-4 in Visit 07 (4)	500 Secs X 2 (4818 Secs)		
							[==>522.0 Secs (Pattern 1, Copy 1)]	[3]		
							[==>522.0 Secs (Pattern 1, Copy 2)]			
							[==>522.0 Secs (Pattern 2, Copy 1)]			
							[==>420.0 Secs (Pattern 2, Copy 2)]	[4]		
							[==>420.0 Secs (Pattern 3, Copy 1)]			
							[==>420.0 Secs (Pattern 3, Copy 2)]			
							[==>420.0 Secs (Pattern 4, Copy 1)]			
							[==>420.0 Secs (Pattern 4, Copy 2)]			
							[==>576.0 Secs (Pattern 5, Copy 1)]	[5]		
							[==>576.0 Secs (Pattern 5, Copy 2)]			
5	(STIS.sp.82 6568)	(5) NEWTDE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A			Pattern 1, Exps 5-5 in Visit 07 (1)	500 Secs (991 Secs)		
							[==>576.0 Secs (Pattern 1)]	[5]		
							[==>415.0 Secs (Pattern 2)]			

Orbit 1

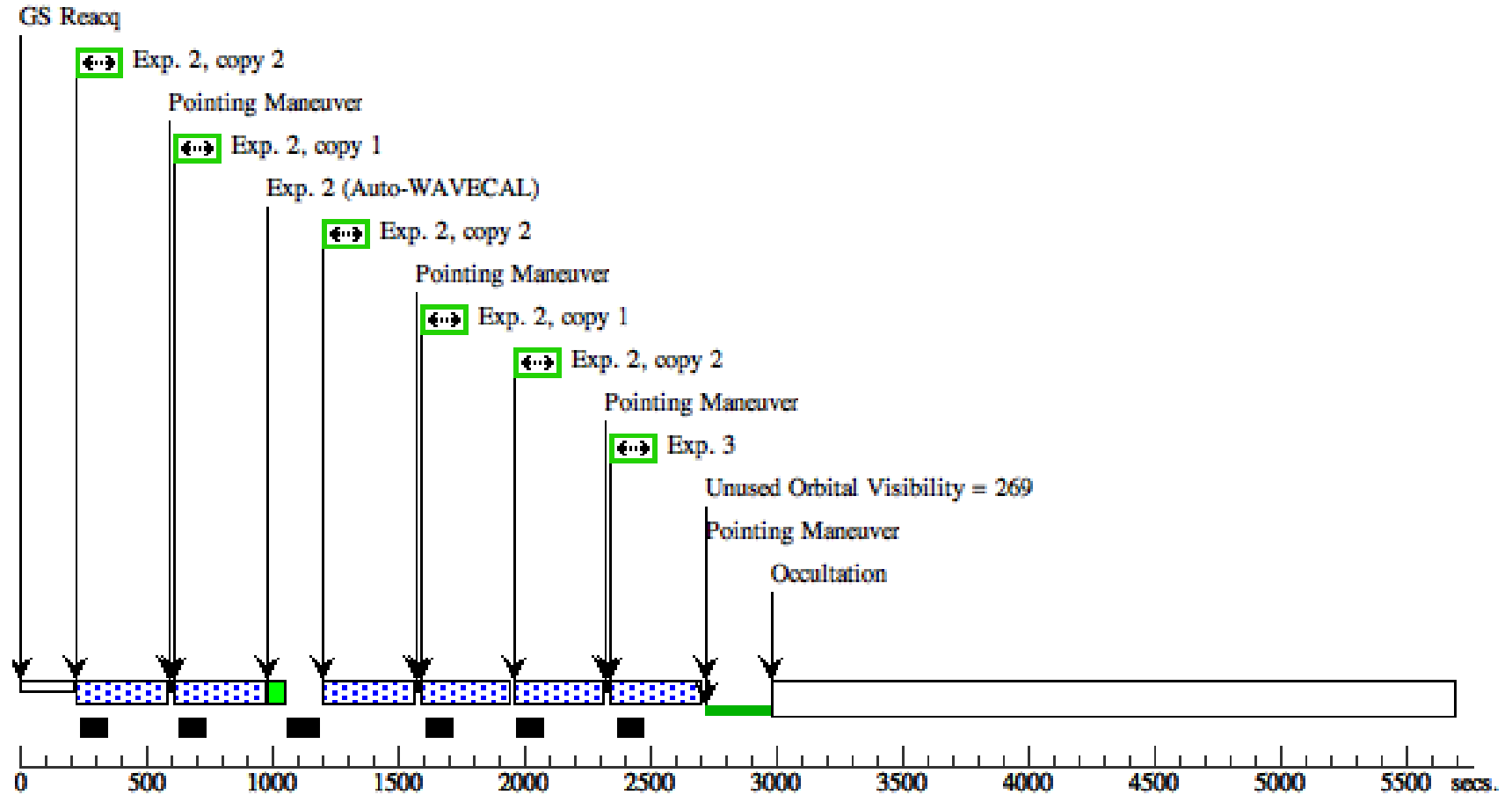
Server Version: 20170613

Orbit Structure



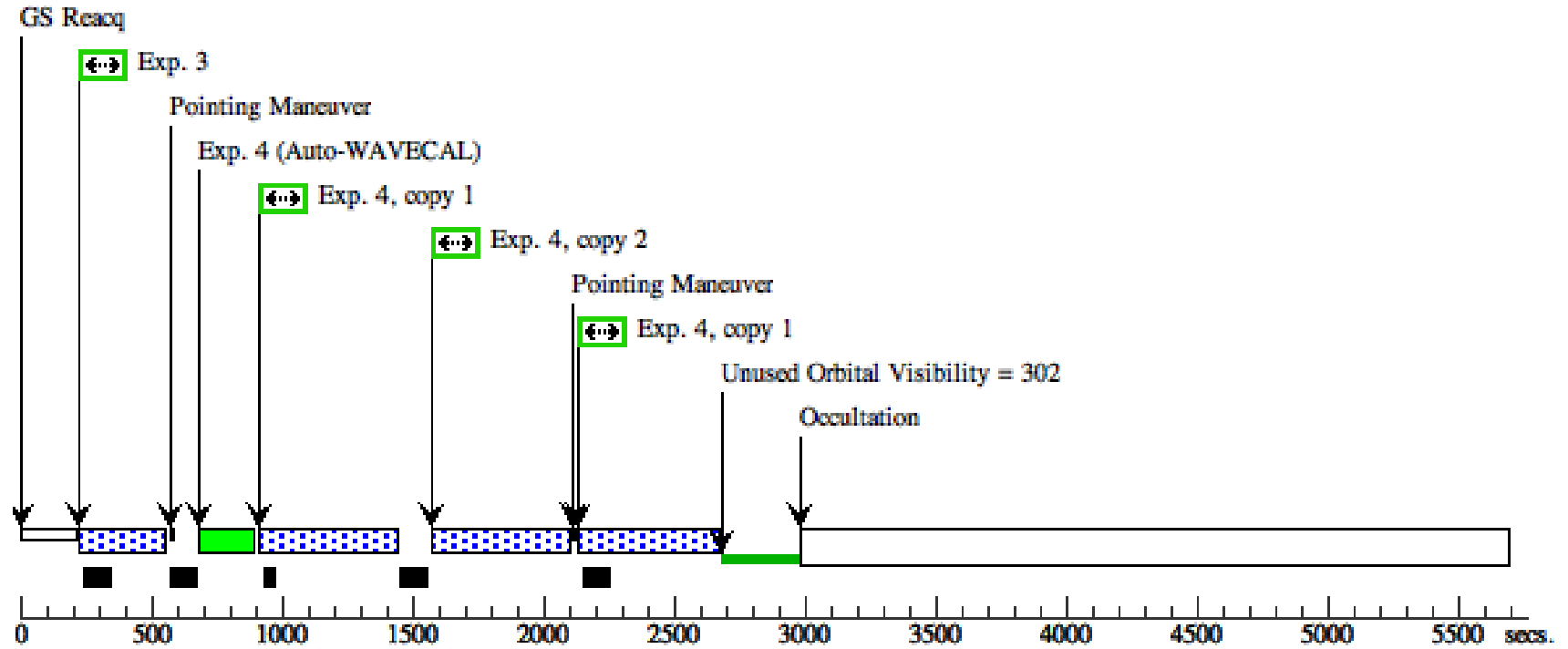
Orbit 2

Server Version: 20170613



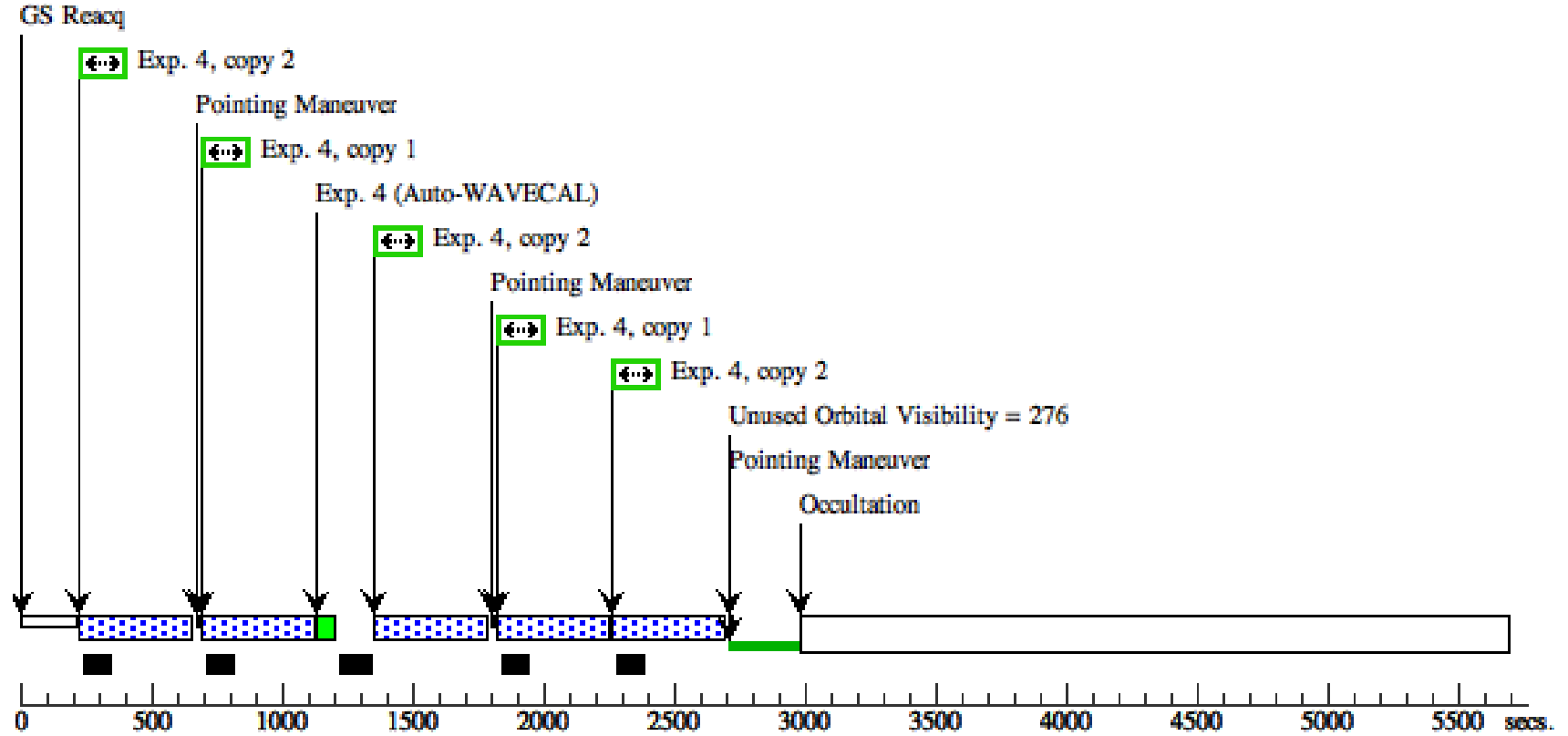
Orbit 3

Server Version: 20170613



Orbit 4

Server Version: 20170613



Orbit 5

GS Reacq

