



17001 - The Last Gasp of the TDE Wind

Cycle: 30, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Walter Peter Maksym III (PI) (Contact)	NASA Marshall Space Flight Center
Dr. Martin Elvis (CoI)	Smithsonian Institution Astrophysical Observatory
Dr. Giuseppina Fabbiano (CoI)	Smithsonian Institution Astrophysical Observatory

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) TDE-TOO-1 WAVE	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	12-Jun-2024 10:00:19.0	yes
02	(1) TDE-TOO-1 WAVE	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	12-Jun-2024 10:00:21.0	yes
03	(1) TDE-TOO-1	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	12-Jun-2024 10:00:22.0	yes
04	(1) TDE-TOO-1	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	12-Jun-2024 10:00:23.0	yes

Proposal 17001 (STScI Edit Number: 5, Created: Wednesday, June 12, 2024 at 9:00:48 AM Eastern Standard Time) - Overview

<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>
05	(2) TDE-TOO-2 WAVE	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	12-Jun-2024 10:00:24.0	yes
06	(2) TDE-TOO-2 WAVE	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	12-Jun-2024 10:00:26.0	yes
07	(2) TDE-TOO-2	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	12-Jun-2024 10:00:27.0	yes
08	(2) TDE-TOO-2	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	12-Jun-2024 10:00:28.0	yes
11	(3) TDE-TOO-3	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	12-Jun-2024 10:00:29.0	yes
12	(3) TDE-TOO-3	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	12-Jun-2024 10:00:30.0	yes
13	(12) AT2022GRI	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	12-Jun-2024 10:00:31.0	yes
14	(12) AT2022GRI	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	12-Jun-2024 10:00:33.0	yes
15	(12) AT2022GRI	STIS/CCD STIS/NUV-MAMA	3	12-Jun-2024 10:00:34.0	yes
16	(12) AT2022GRI	STIS/CCD STIS/FUV-MAMA	3	12-Jun-2024 10:00:34.0	yes

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21	(4) TDE-TOO-4	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	12-Jun-2024 10:00:35.0	yes
22	(4) TDE-TOO-4	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	12-Jun-2024 10:00:36.0	yes
17	(5) TDE-TOO-5 WAVE	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	12-Jun-2024 10:00:37.0	yes
18	(5) TDE-TOO-5 WAVE	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	12-Jun-2024 10:00:39.0	yes
19	(5) TDE-TOO-5	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	12-Jun-2024 10:00:40.0	yes
20	(5) TDE-TOO-5	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	12-Jun-2024 10:00:41.0	yes
23	(13) AT2023CLX	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	12-Jun-2024 10:00:42.0	yes
24	(13) AT2023CLX	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	12-Jun-2024 10:00:43.0	yes
25	(13) AT2023CLX	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	12-Jun-2024 10:00:44.0	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>
26	(13) AT2023CLX	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	12-Jun-2024 10:00:45.0	yes
27	(13) AT2023CLX	STIS/CCD STIS/NUV-MAMA	3	12-Jun-2024 10:00:46.0	yes
28	(13) AT2023CLX	STIS/CCD STIS/FUV-MAMA	3	12-Jun-2024 10:00:47.0	yes

94 Total Orbits Used

ABSTRACT

When a star is tidally disrupted by a supermassive black hole, the rapid accretion of the stellar debris may drive super-Eddington winds which. After a period of accretion rate decay, we expect the winds to "shut off", drastically reducing the production of broad line emission and changing the evolution of the band-specific light curve across the spectrum. Spectroscopic monitoring of new tidal disruption events (TDEs) in the ultraviolet is the best place to observe this transition due to the persistence of a windless disk continuum. the lack of stellar contamination, and the wealth of high-ionization diagnostic lines that probe the relatively small TDE accretion structure. We propose to observe 5 TDEs over 3 epochs with monitoring UV spectroscopy and complementary X-ray and optical observations, in order to observe this transition and investigate its connection to the evolution of the accretion flow. Beyond this primary goal, these observations will also provide an important legacy contribution of HST towards understanding TDE physics in the UV.

OBSERVING DESCRIPTION

--- Update for 17001

This is cycle #2 of a 70-orbit 3-cycle program (following 16775). We have used or scheduled 24 orbits in cycle #1 (out of 34 currently allowed) on 3 targets, and anticipate 2-3 additional targets over all cycles of this program .

Configurations are forwarded from 16775. AT2022dsb and AT2022hvp were triggered in 16775 with all orbits planned. These visits are useful templates for future triggers in a full 3-epoch monitoring program, and have been assigned new generic target TDE-TOO-6. In practice, we are likely

to only use epochs #2-#3 at most for any given target, since 14 orbits are still allocated for triggers in 16775.

---Updated notes from 16775

This program aims to spectroscopically monitor at least 5 tidal disruption events (TDEs) total as TOOs over the course of their Eddington timescales. Like active galactic nuclei, TDEs frequently display broad spectral lines that are likely formed by emission from ionized clouds circulating in a hot accretion-driven outflowing wind. If this wind is powered by the accretion of stellar debris from the tidal disruption, then as the accretion rate declines over time (0.5-2 years), the wind should die down and the broad lines should disappear. Ancillary science depends upon measurement of the broad line strengths and kinematic profiles, and (much less challenging) the SED profile. TIME-TAG observations may be possible for a sufficiently bright TDE, which would allow intra-observation variability studies (e.g. reverberation mapping).

In terms of program strategy, this translates into monitoring each TDE over ~2 years, with a cadence of ~1 year between each of 3 epochs. We will obtain STIS FUV (G140L) and NUV (G230L) MAMA spectra using the 0.2" slit for each target in each epoch. A "typical" number of orbits is 2/2/3 for each grating in epochs #1/#2/#3, totaling 4/4/6 orbits for each epoch.

In practice, the cadence depends upon the black hole mass (which can be estimated from pre-flare observations of the host galaxy) and the trajectory of the disrupted star (which may be imprinted in the light curve photometry). As such, each epoch #2 will be "on hold" until we have had a chance to confirm and revise the cadence strategy.

Since neither the brightness nor the light curve evolution is known, we have previously devised sample visit strategies for multiple different combinations of the two:

We assign a different cadence to each target, with plausible example timescales between 0.41 years and 1.25 years. For each target we devise two different alternate setups, each covering epochs #1 and #2:

- 1) The first setup assumes a very bright target which requires a neutral density filter for acquisition, and therefore a longer acquisition time. For a very bright target, TIME-TAG observations may be possible, and fewer orbits may be efficiently used in epoch #1 (only one orbit per grating, possibly allowing additional targets or improved late-time epochs).

Proposal 17001 (STScI Edit Number: 5, Created: Wednesday, June 12, 2024 at 9:00:48 AM Eastern Standard Time) - Overview

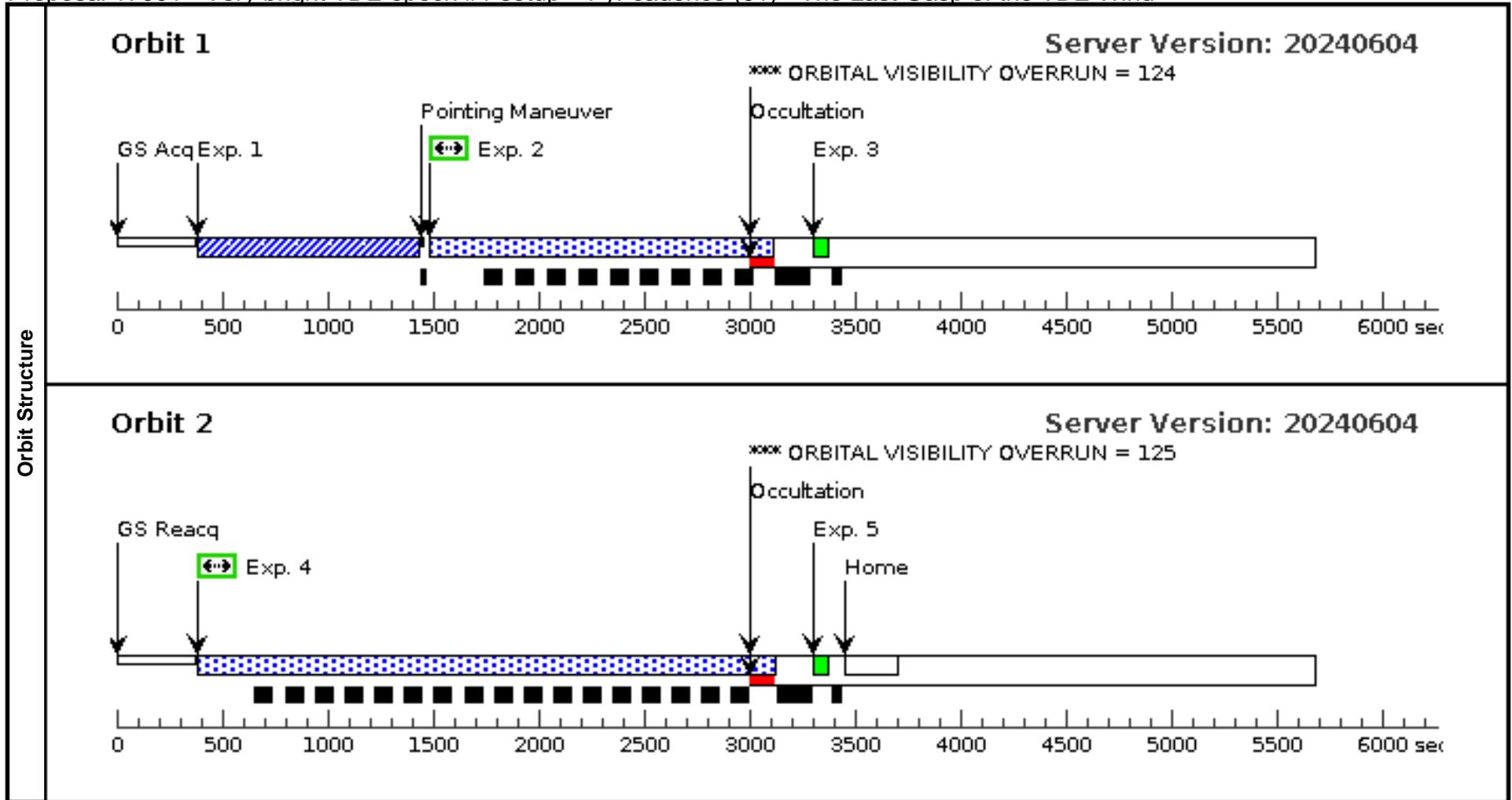
2) The second setup assumes a moderately bright target (fainter, but still bright enough for UV spectroscopy) and uses the 50CCD filter with a reduced acquisition exposure. The second setup does not use TIME-TAG observations and assumes 2 orbits per grating in epoch #1 and epoch #2.

We will refine these setups before triggering epoch #1. Epoch #2 is on hold to refine the setup (including cadence) after triggering epoch #1. In any case, these are long baseline observations: the cadence is unlikely to be <months in any event.

Proposal 17001 - Very bright TDE epoch #1 setup - 1 yr cadence (01) - The Last Gasp of the TDE Wind

Wed Jun 12 14:00:48 GMT 2024

Visit	<p>Proposal 17001, Very bright TDE epoch #1 setup - 1 yr cadence (01), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: ON HOLD ; TOO RESPONSE TIME 50.0D</p> <p><i>Comments: This observation assumes the TDE is sufficiently bright that a neutral density filter is necessary for acquisition, and that TIME-TAG mode will be beneficial</i></p> <p><i>Since this has 1 year cadence, it is followed by visit (02) for epoch #2</i></p> <p><i>On Hold Comments: Target of opportunity.</i></p> <p><i>Conditional on TOO properties as follow if target is very bright.</i></p> <p><i>This setup will be triggered for a TDE which is bright enough to require a neutral density filter for acquisition, and that TIME-TAG mode will be beneficial. In such a case, one orbit per grating may be sufficient for Epoch #1. Choice of target is somewhat flexible - we expect a bright (absolute $V < -18$) transient consistent with a galactic nucleus at $z < 0.2$, which may be refined by optical spectroscopy (notable TDE characteristics include broad Balmer, He II or Bowen lines) or X-rays (e.g. supersoft quasi-blackbody spectrum), but there is enough variety in possible distinctive characteristics that a narrow definition is not practical. We expect to confirm UV brightness and MAMA safety via Swift or other UV instruments (eg XMM if necessary).</i></p> <p><i>The buffer times may also need to be increased.</i></p>									
	<p>(Very bright TDE epoch #1 setup - 1 yr cadence (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Very bright TDE epoch #1 setup - 1 yr cadence (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>									
Diagnosics										
Generic Targets	#	Name	Criteria	Description						
	(1)	TDE-TOO-1	UV-bright Tidal Disruption Event	ACCRETION DISK BLR NUCLEUS WIND						
<p><i>Comments: Bright optical/UV flare consistent with the location of a galactic nucleus (and consistent with common TDE photometric or spectroscopic signatures such as broad lines from Balmer, He II or Bowen transitions, or supersoft X-ray spectrum). We will confirm useful UV brightness e.g. via Swift. Primary selection may be from ATels or follow-up of optical or X-ray surveys.</i></p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Very bright TDE acquisition (STIS.ta.152 3033)	(1) TDE-TOO-1	STIS/CCD, ACQ, F25ND3	MIRROR	ACQTYPE=DIFFUSE; SE;	CHECKBOX=13.0; DIFFUSE-CENTER=FLUX-CENTROID		180 Secs (180 Secs) [==>]	[1]
	2	Very bright TDE NUV spectrum (STIS.sp.15 23057)	(1) TDE-TOO-1	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=148; WAVECAL=NO			1300 Secs (1502 Secs) [==>1502.0 Secs]	[1]
	3	Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				[==>]	[1]
	4	Very bright TDE FUV spectrum (STIS.sp.15 23058)	(1) TDE-TOO-1	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=141			1300 Secs (2581 Secs) [==>2581.0 Secs]	[2]
	5	Wavecal	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				[==>]	[2]



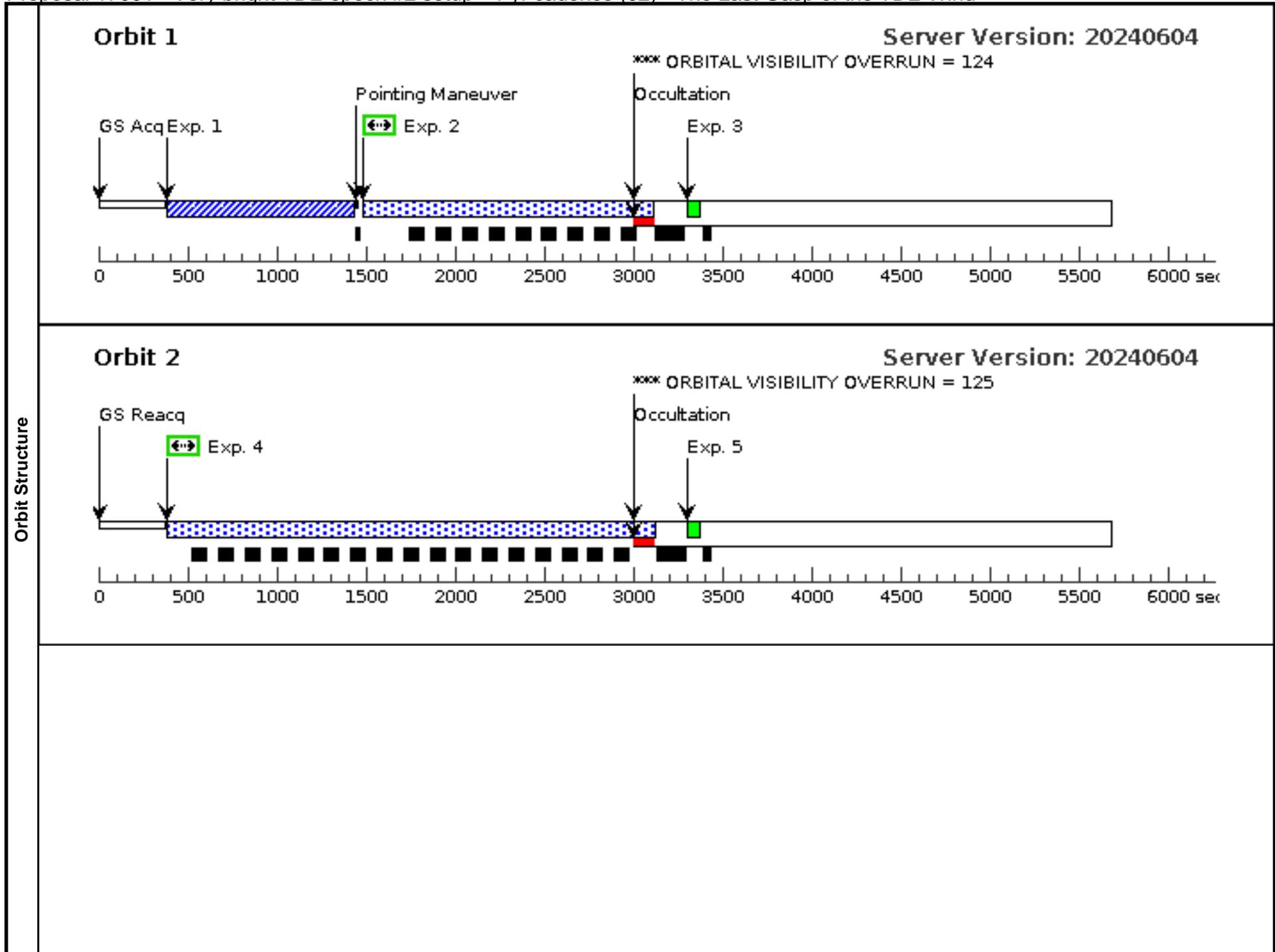
Proposal 17001 - Very bright TDE epoch #2 setup - 1 yr cadence (02) - The Last Gasp of the TDE Wind

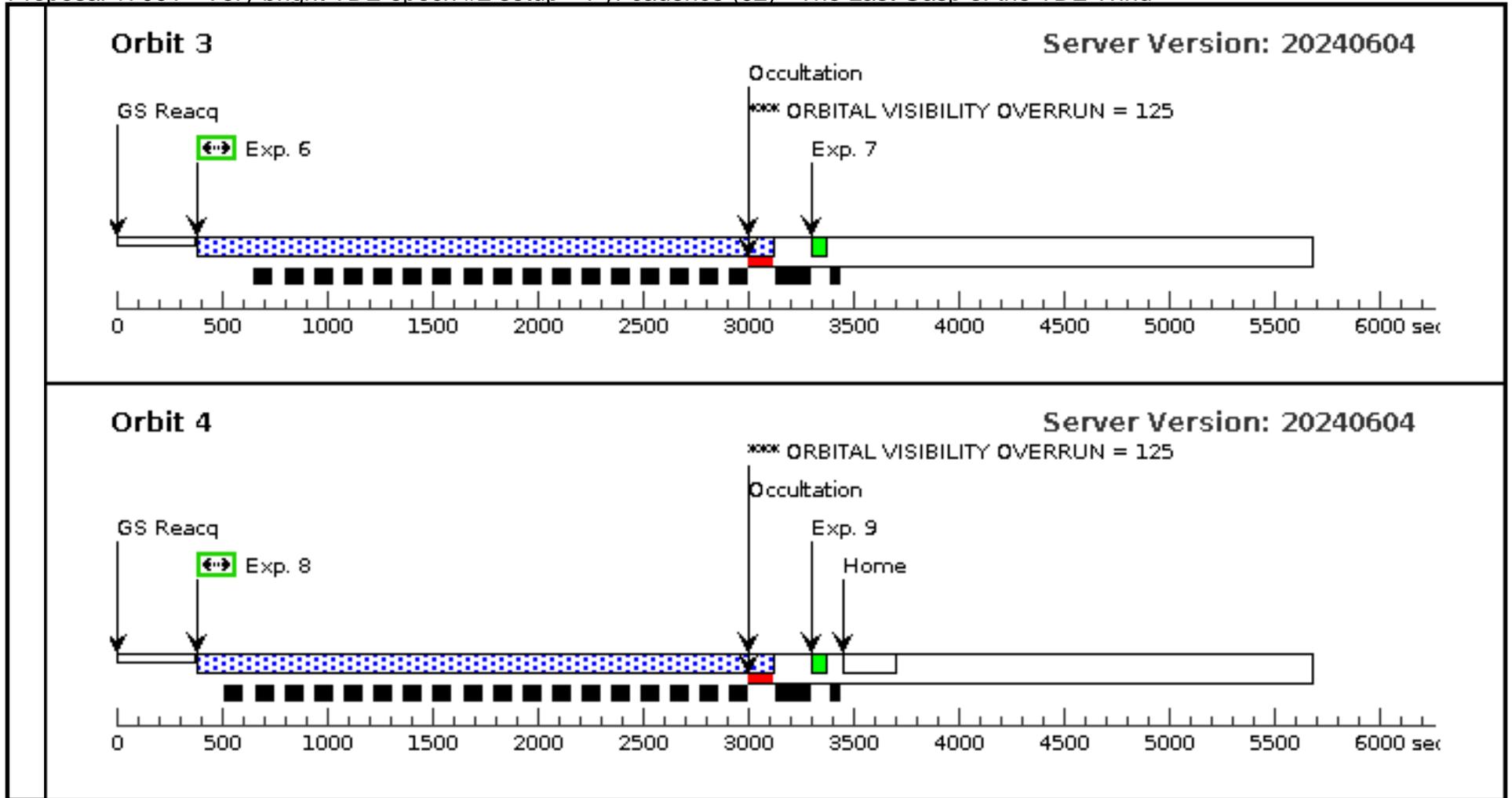
Wed Jun 12 14:00:48 GMT 2024

Visit	<p>Proposal 17001, Very bright TDE epoch #2 setup - 1 yr cadence (02), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: AFTER 01 BY 320 D TO 410 D; ON HOLD</p> <p><i>Comments: This observation assumes the TDE is sufficiently bright that a neutral density filter is necessary for acquisition, and that TIME-TAG mode will be beneficial.</i></p> <p><i>"Typical" TDEs for this program can expect epoch #2 after ~1 year and epoch #3 after ~2 years. The relevant "Eddington timescale" will be estimated from archival photometry of the host galaxy (or more reliable archival/published results as available) and consequent estimates of the associated black hole mass when epoch #1 is triggered, so the timing requirements may need to be refined. Depending upon the target, it may also be possible to expand the window if visibility becomes an issue. Buffer times may also need to be increased.</i></p> <p><i>On Hold Comments: Conditional on confirmation that the timing requirements are appropriate for the observed host galaxy properties or light curve decay rate. Timing requirements may need to be revised.</i></p> <p><i>Buffer times may need to be increased.</i></p>										
	Diagnostics	<p>(Very bright TDE epoch #2 setup - 1 yr cadence (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Very bright TDE epoch #2 setup - 1 yr cadence (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Very bright TDE epoch #2 setup - 1 yr cadence (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Very bright TDE epoch #2 setup - 1 yr cadence (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Very bright TDE epoch #2 setup - 1 yr cadence (02)) Warning (Orbit Planner): STIS TIME-TAG EXPOSURE GENERATES HEAVY DATA VOLUME</p>									
Generic Targets		<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Criteria</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>TDE-TOO-1</td> <td>UV-bright Tidal Disruption Event</td> <td>ACCRETION DISK BLR NUCLEUS WIND</td> </tr> </tbody> </table> <p><i>Comments: Bright optical/UV flare consistent with the location of a galactic nucleus (and consistent with common TDE photometric or spectroscopic signatures such as broad lines from Balmer, He II or Bowen transitions, or supersoft X-ray spectrum). We will confirm useful UV brightness e.g. via Swift. Primary selection may be from ATels or follow-up of optical or X-ray surveys.</i></p>			#	Name	Criteria	Description	(1)	TDE-TOO-1	UV-bright Tidal Disruption Event
	#	Name	Criteria	Description							
(1)	TDE-TOO-1	UV-bright Tidal Disruption Event	ACCRETION DISK BLR NUCLEUS WIND								

Proposal 17001 - Very bright TDE epoch #2 setup - 1 yr cadence (02) - The Last Gasp of the TDE Wind

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	Very bright TDE acquisition (STIS.ta.1523033)	(1) TDE-TOO-1	STIS/CCD, ACQ, F25ND3	MIRROR	DIFFUSE-CENTER=FLUX-CENTROID; ACQTYPE=DIFFUSE; CHECKBOX=13		180 Secs (180 Secs) [==>]	[1]
	2	Very bright TDE NUV spectrum (STIS.sp.1523057)	(1) TDE-TOO-1	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=148; WAVECAL=NO		1300 Secs (1502 Secs) [==>1502.0 Secs]	[1]
	3	STIS NUV WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A			[==>]	[1]
	4	Very bright TDE NUV spectrum (STIS.sp.1523057)	(1) TDE-TOO-1	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=148		2500 Secs (2722 Secs) [==>2722.0 Secs]	[2]
	5	STIS NUV WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A			[==>]	[2]
	6	Very bright TDE FUV spectrum (STIS.sp.1523058)	(1) TDE-TOO-1	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=141		2500 Secs (2581 Secs) [==>2581.0 Secs]	[3]
	7	STIS FUV WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A			[==>]	[3]
	8	Very bright TDE FUV spectrum (STIS.sp.1523058)	(1) TDE-TOO-1	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=141		2500 Secs (2722 Secs) [==>2722.0 Secs]	[4]
	9	STIS FUV WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A			[==>]	[4]





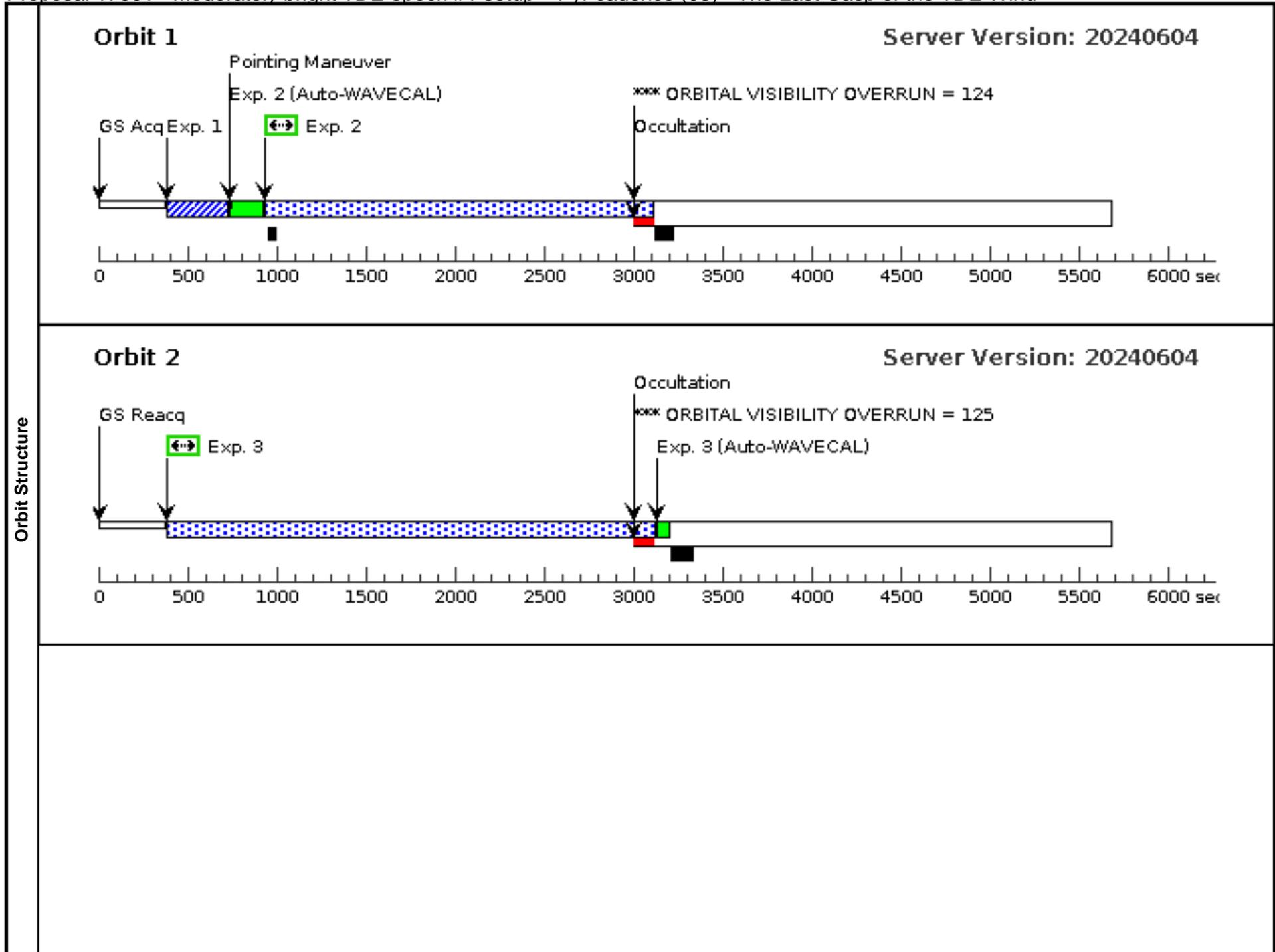
Proposal 17001 - Moderately bright TDE epoch #1 setup - 1 yr cadence (03) - The Last Gasp of the TDE Wind

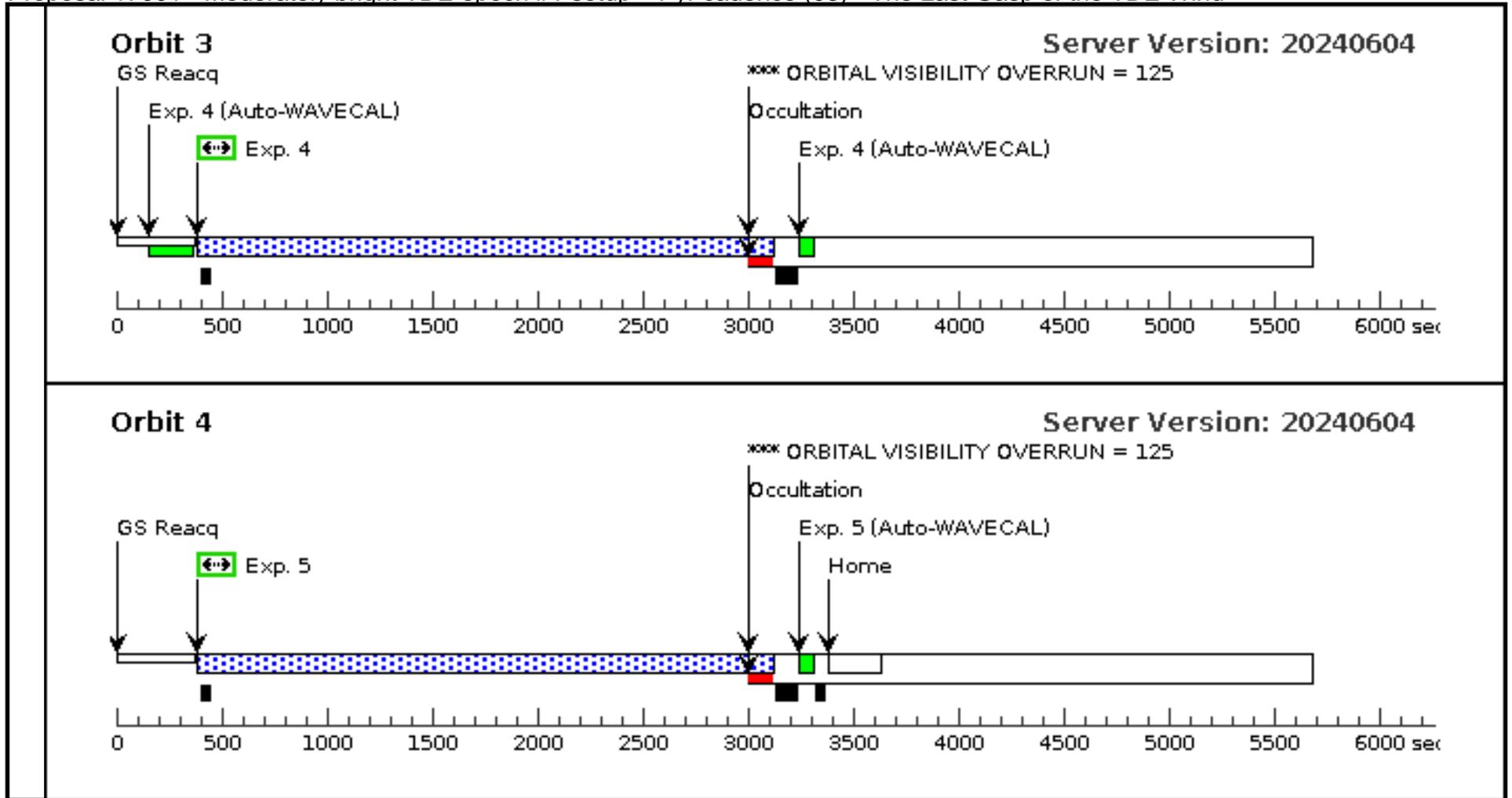
Wed Jun 12 14:00:48 GMT 2024

Visit	<p>Proposal 17001, Moderately bright TDE epoch #1 setup - 1 yr cadence (03), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: ON HOLD ; TOO RESPONSE TIME 50.0D</p> <p><i>Comments: This observation assumes the TDE is NOT bright enough for a strong filter or TIME-TAG mode.</i></p> <p><i>Since this has 1 year cadence, it is followed by visit (04) for epoch #2</i></p> <p><i>On Hold Comments: Target of opportunity.</i></p> <p><i>Conditional on TOO properties as follow if target is less bright.</i></p> <p><i>This setup will be triggered for a less-bright TDE which does not warrant a strong acquisition filter or TIME-TAG mode. Choice of target is somewhat flexible - we expect a bright (absolute $V < -18$) transient consistent with a galactic nucleus at $z < 0.2$, which may be refined by optical spectroscopy (notable TDE characteristics include broad Balmer, He II or Bowen lines) or X-rays (e.g. supersoft quasi-blackbody spectrum), but there is enough variety in possible distinctive characteristics that a narrow definition is not practical. We expect to confirm UV brightness and MAMA safety via Swift or other UV instruments (eg XMM if necessary).</i></p> <p><i>Acquisition time may need to be modified.</i></p>			
	Diagnostics	<p>(Moderately bright TDE epoch #1 setup - 1 yr cadence (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Moderately bright TDE epoch #1 setup - 1 yr cadence (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Moderately bright TDE epoch #1 setup - 1 yr cadence (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Moderately bright TDE epoch #1 setup - 1 yr cadence (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>		
Generic Targets		#	Name	Criteria
	(1)	TDE-TOO-1	UV-bright Tidal Disruption Event	ACCRETION DISK BLR NUCLEUS WIND
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Proposal 17001 - Moderately bright TDE epoch #1 setup - 1 yr cadence (03) - The Last Gasp of the TDE Wind

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	1	Moderately bright TDE acquisition (STIS.ta.152 3424)	(1) TDE-TOO-1	STIS/CCD, ACQ, 50CCD	MIRROR		ACQTYPE=DIFFUSE; CHECKBOX=13.0; DIFFUSE-CENTER=FLUX-CENTROID			15 Secs (15 Secs) [==>]	[1]
	2	Moderately bright TDE NUV spectrum (STIS.sp.15 23427)	(1) TDE-TOO-1	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A					1300 Secs (2165 Secs) [==>2165.0 Secs]	[1]
	3	Moderately bright TDE NUV spectrum (STIS.sp.15 23427)	(1) TDE-TOO-1	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A					2500 Secs (2722 Secs) [==>2722.0 Secs]	[2]
	4	Moderately bright TDE FUV spectrum (STIS.sp.15 23425)	(1) TDE-TOO-1	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A					1300 Secs (2722 Secs) [==>2722.0 Secs]	[3]
	5	Moderately bright TDE FUV spectrum (STIS.sp.15 23425)	(1) TDE-TOO-1	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A					2500 Secs (2722 Secs) [==>2722.0 Secs]	[4]

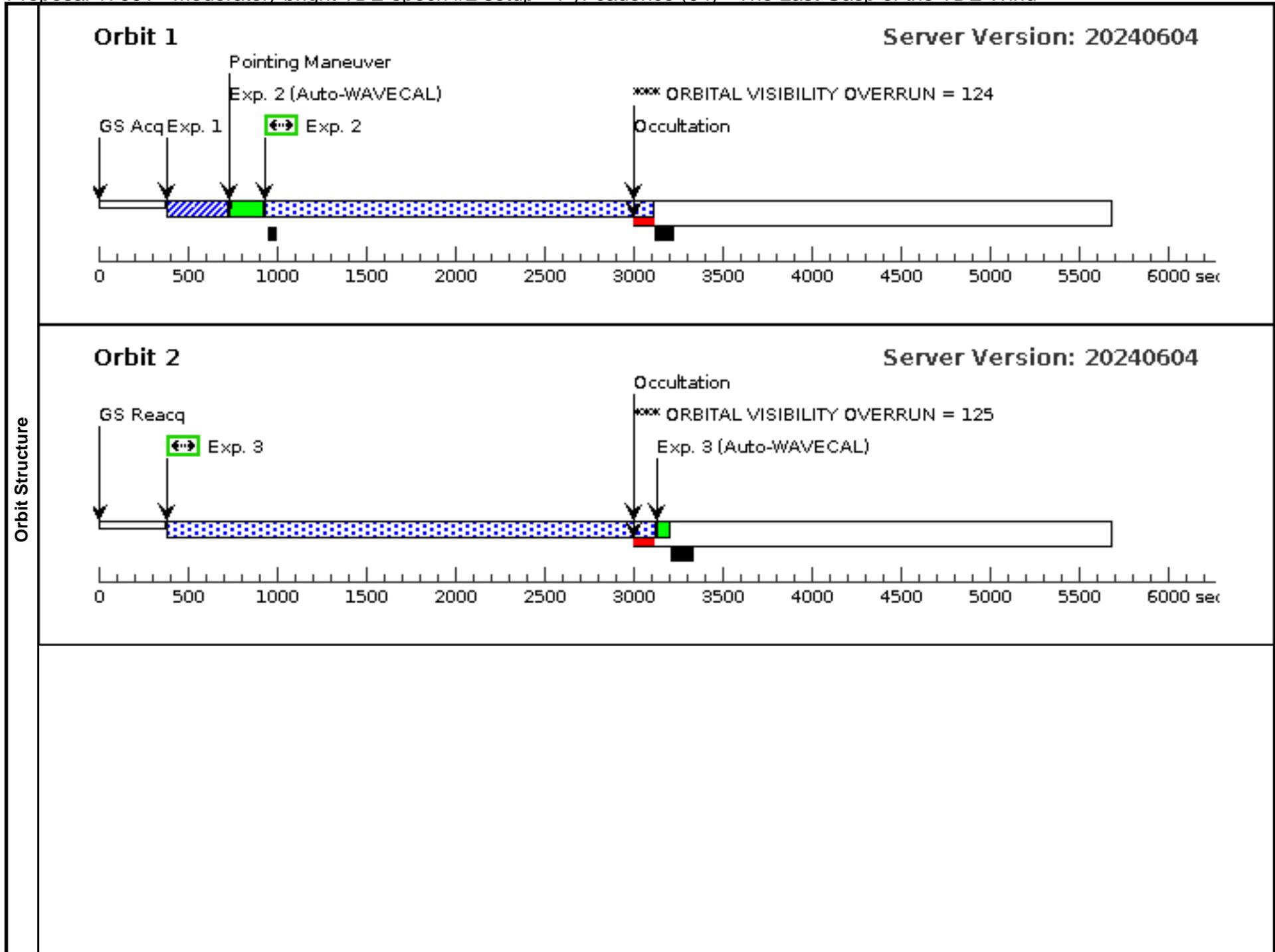


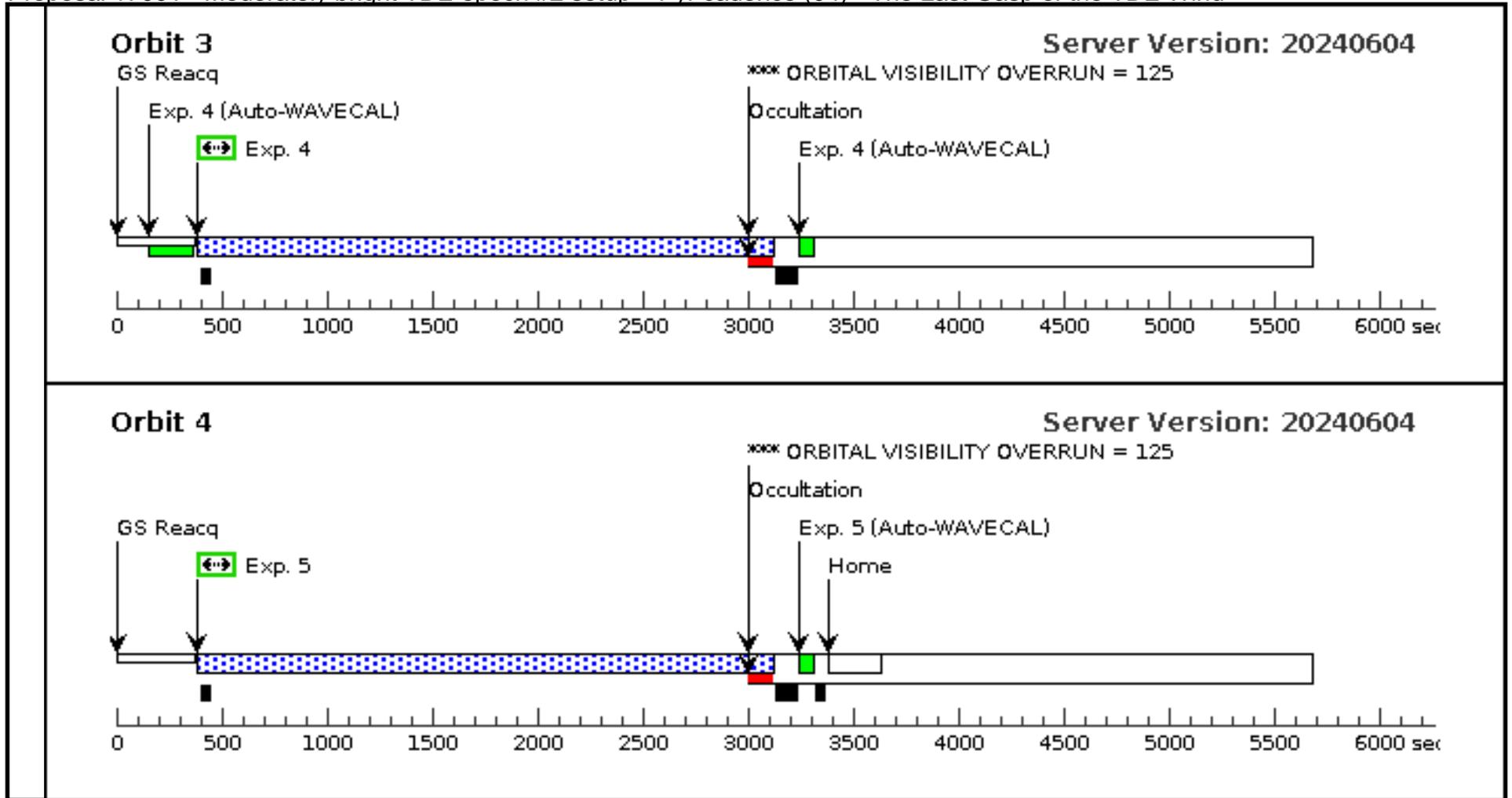


Proposal 17001 - Moderately bright TDE epoch #2 setup - 1 yr cadence (04) - The Last Gasp of the TDE Wind

Wed Jun 12 14:00:48 GMT 2024

Visit	<p>Proposal 17001, Moderately bright TDE epoch #2 setup - 1 yr cadence (04), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: AFTER 03 BY 320 D TO 410 D; ON HOLD</p> <p><i>Comments: This observation assumes the TDE is NOT sufficiently bright for a strong filter or TIME-TAG mode.</i></p> <p><i>"Typical" TDEs for this program can expect epoch #2 after ~1 year and epoch #3 after ~2 years. The relevant "Eddington timescale" will be estimated from archival photometry of the host galaxy (or more reliable archival/published results as available) and consequent estimates of the associated black hole mass when epoch #1 is triggered, so the timing requirements may need to be refined. Depending upon the target, it may also be possible to expand the window if visibility becomes an issue. Buffer times may also need to be increased.</i></p> <p><i>On Hold Comments: Conditional on confirmation that the timing requirements are appropriate for the observed host galaxy properties or light curve decay rate. Acquisition time and timing requirements may need to be revised.</i></p>																																																																					
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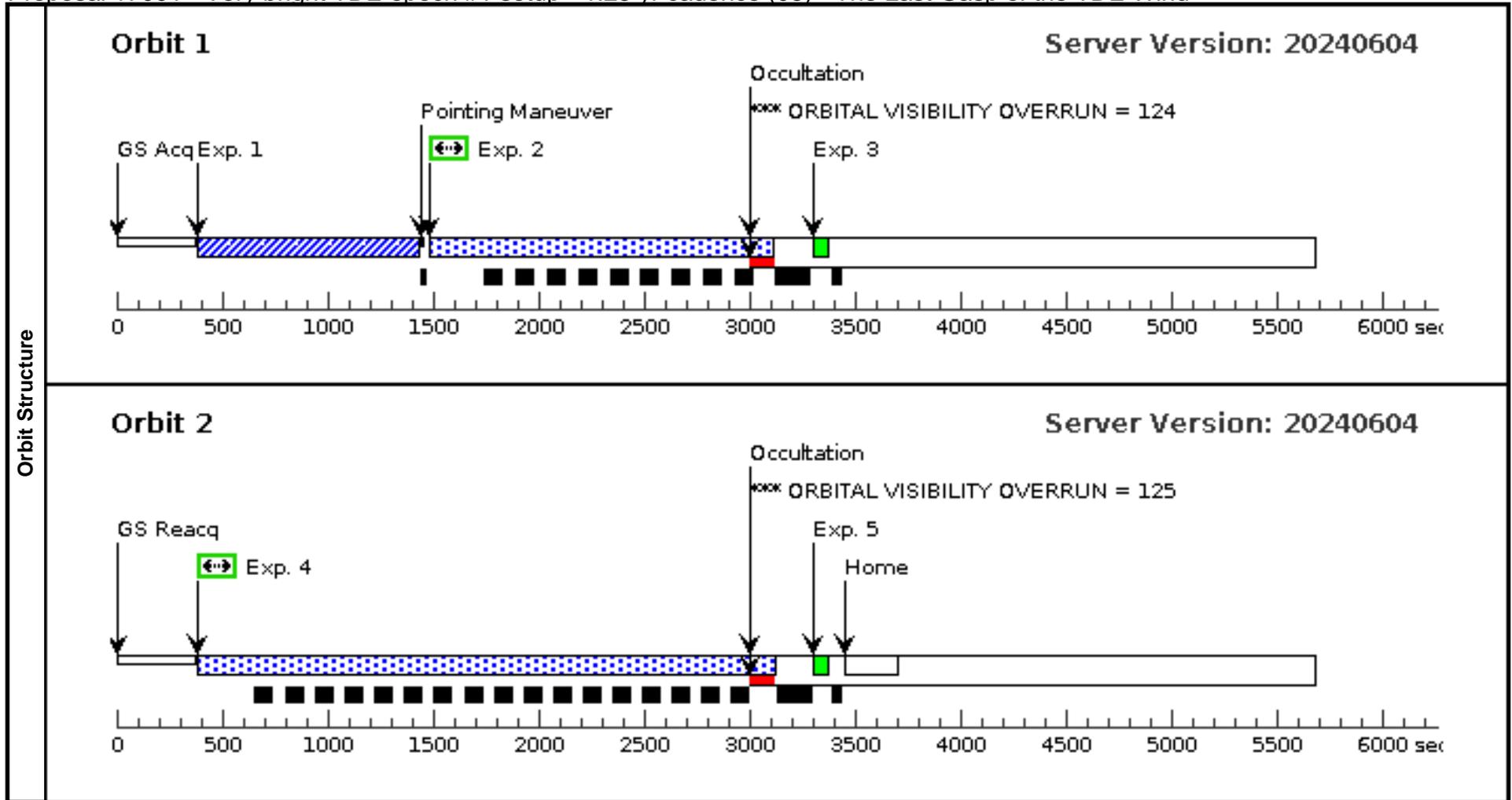




Proposal 17001 - Very bright TDE epoch #1 setup - 1.25 yr cadence (05) - The Last Gasp of the TDE Wind

Wed Jun 12 14:00:48 GMT 2024

Visit	<p>Proposal 17001, Very bright TDE epoch #1 setup - 1.25 yr cadence (05), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: ON HOLD ; TOO RESPONSE TIME 50.0D</p> <p><i>Comments: This observation assumes the TDE is sufficiently bright that a neutral density filter is necessary for acquisition, and that TIME-TAG mode will be beneficial</i></p> <p><i>Since this has 1.25 year cadence, it is followed by visit (06) for epoch #2</i></p> <p><i>On Hold Comments: Target of opportunity.</i></p> <p><i>Conditional on TOO properties as follow if target is very bright.</i></p> <p><i>This setup will be triggered for a TDE which is bright enough to require a neutral density filter for acquisition, and that TIME-TAG mode will be beneficial. In such a case, one orbit per grating may be sufficient for Epoch #1. Choice of target is somewhat flexible - we expect a bright (absolute $V < -18$) transient consistent with a galactic nucleus at $z < 0.2$, which may be refined by optical spectroscopy (notable TDE characteristics include broad Balmer, He II or Bowen lines) or X-rays (e.g. supersoft quasi-blackbody spectrum), but there is enough variety in possible distinctive characteristics that a narrow definition is not practical. We expect to confirm UV brightness and MAMA safety via Swift or other UV instruments (eg XMM if necessary).</i></p> <p><i>The buffer times may also need to be increased.</i></p>									
	<p>(Very bright TDE epoch #1 setup - 1.25 yr cadence (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Very bright TDE epoch #1 setup - 1.25 yr cadence (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>									
Diagnosics										
Generic Targets	#	Name	Criteria	Description						
	(2)	TDE-TOO-2	UV-bright Tidal Disruption Event	ACCRETION DISK BLR NUCLEUS WIND						
<p><i>Comments: Bright optical/UV flare consistent with the location of a galactic nucleus (and consistent with common TDE photometric or spectroscopic signatures such as broad lines from Balmer, He II or Bowen transitions, or supersoft X-ray spectrum). We will confirm useful UV brightness e.g. via Swift. Primary selection may be from ATels or follow-up of optical or X-ray surveys.</i></p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Very bright TDE acquisition (STIS.ta.152 3033)	(2) TDE-TOO-2	STIS/CCD, ACQ, F25ND3	MIRROR	ACQTYPE=DIFFUSE; SE;	CHECKBOX=13.0; DIFFUSE-CENTER=FLUX-CENTROID		180 Secs (180 Secs) [==>]	[1]
	2	Very bright TDE NUV spectrum (STIS.sp.15 23057)	(2) TDE-TOO-2	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=148;	WAVECAL=NO		1300 Secs (1502 Secs) [==>1502.0 Secs]	[1]
	3	Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				[==>]	[1]
	4	Very bright TDE FUV spectrum (STIS.sp.15 23058)	(2) TDE-TOO-2	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=141			1300 Secs (2581 Secs) [==>2581.0 Secs]	[2]
	5	Wavecal	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				[==>]	[2]



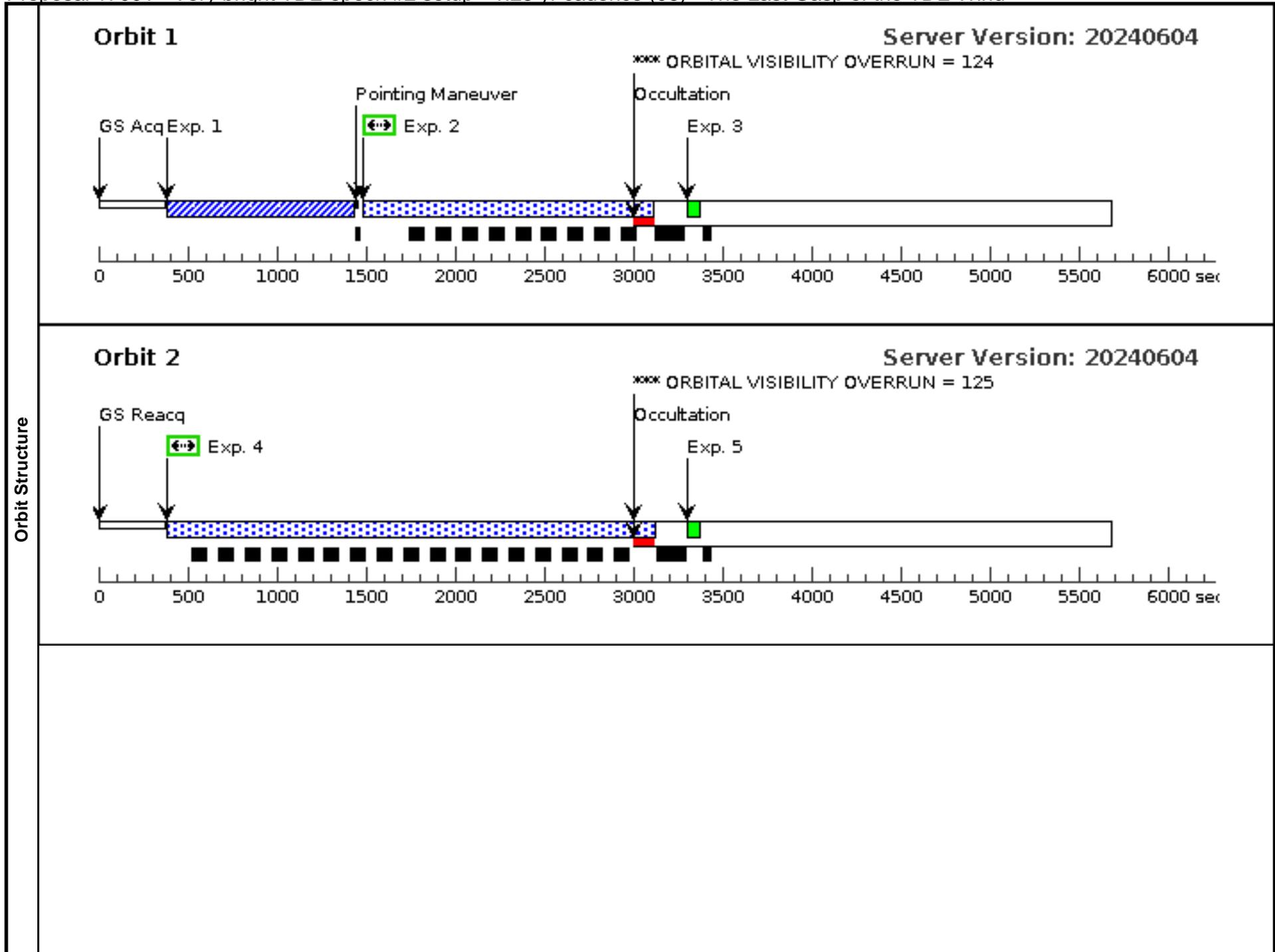
Proposal 17001 - Very bright TDE epoch #2 setup - 1.25 yr cadence (06) - The Last Gasp of the TDE Wind

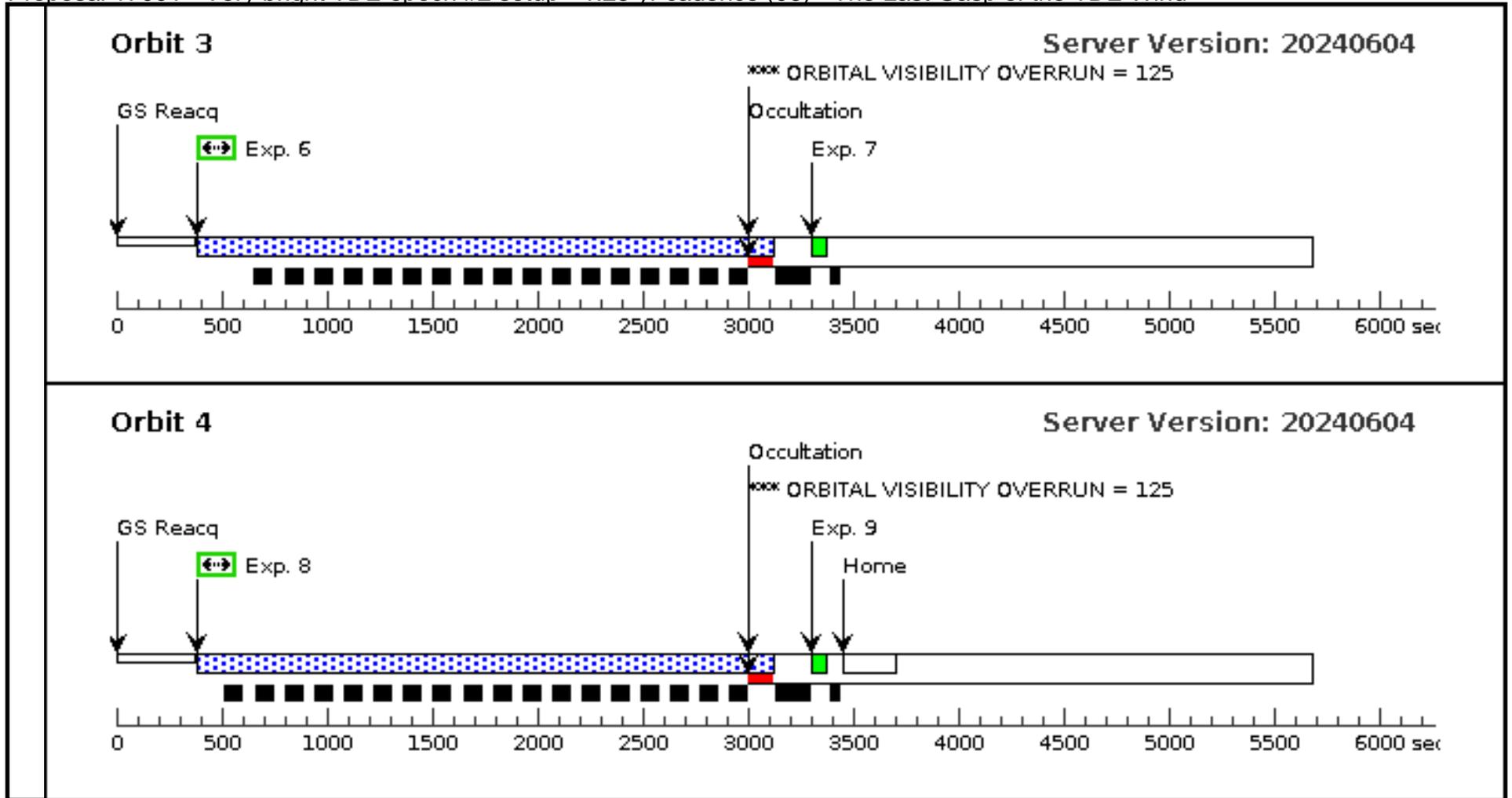
Wed Jun 12 14:00:48 GMT 2024

Visit	<p>Proposal 17001, Very bright TDE epoch #2 setup - 1.25 yr cadence (06), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: AFTER 05 BY 399 D TO 513 D; ON HOLD</p> <p><i>Comments: This observation assumes the TDE is sufficiently bright that a neutral density filter is necessary for acquisition, and that TIME-TAG mode will be beneficial.</i></p> <p><i>"Typical" TDEs for this program can expect epoch #2 after ~1 year and epoch #3 after ~2 years. The relevant "Eddington timescale" will be estimated from archival photometry of the host galaxy (or more reliable archival/published results as available) and consequent estimates of the associated black hole mass when epoch #1 is triggered, so the timing requirements may need to be refined. Depending upon the target, it may also be possible to expand the window if visibility becomes an issue. Buffer times may also need to be increased.</i></p> <p><i>On Hold Comments: Conditional on confirmation that the timing requirements are appropriate for the observed host galaxy properties or light curve decay rate. Timing requirements may need to be revised.</i></p> <p><i>Buffer times may need to be increased.</i></p>										
	Diagnostics	(Very bright TDE epoch #2 setup - 1.25 yr cadence (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
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Generic Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Criteria</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>TDE-TOO-2</td> <td>UV-bright Tidal Disruption Event</td> <td>ACCRETION DISK BLR NUCLEUS WIND</td> </tr> </tbody> </table>	#	Name	Criteria	Description	(2)	TDE-TOO-2	UV-bright Tidal Disruption Event	ACCRETION DISK BLR NUCLEUS WIND		
	#	Name	Criteria	Description							
(2)	TDE-TOO-2	UV-bright Tidal Disruption Event	ACCRETION DISK BLR NUCLEUS WIND								
<p><i>Comments: Bright optical/UV flare consistent with the location of a galactic nucleus (and consistent with common TDE photometric or spectroscopic signatures such as broad lines from Balmer, He II or Bowen transitions, or supersoft X-ray spectrum). We will confirm useful UV brightness e.g. via Swift. Primary selection may be from ATels or follow-up of optical or X-ray surveys.</i></p>											

Proposal 17001 - Very bright TDE epoch #2 setup - 1.25 yr cadence (06) - The Last Gasp of the TDE Wind

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	Very bright TDE acquisition (STIS.ta.1523033)	(2) TDE-TOO-2	STIS/CCD, ACQ, F25ND3	MIRROR	DIFFUSE-CENTER=FLUX-CENTROID; ACQTYPE=DIFFUSE; CHECKBOX=13		180 Secs (180 Secs) [==>]	[1]
	2	Very bright TDE NUV spectrum (STIS.sp.1523057)	(2) TDE-TOO-2	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=148; WAVECAL=NO		1300 Secs (1502 Secs) [==>1502.0 Secs]	[1]
	3	STIS NUV WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A			[==>]	[1]
	4	Very bright TDE NUV spectrum (STIS.sp.1523057)	(2) TDE-TOO-2	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=148		2500 Secs (2722 Secs) [==>2722.0 Secs]	[2]
	5	STIS NUV WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A			[==>]	[2]
	6	Very bright TDE FUV spectrum (STIS.sp.1523058)	(2) TDE-TOO-2	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=141		2500 Secs (2581 Secs) [==>2581.0 Secs]	[3]
	7	STIS FUV WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A			[==>]	[3]
	8	Very bright TDE FUV spectrum (STIS.sp.1523058)	(2) TDE-TOO-2	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=141		2500 Secs (2722 Secs) [==>2722.0 Secs]	[4]
	9	STIS FUV WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A			[==>]	[4]





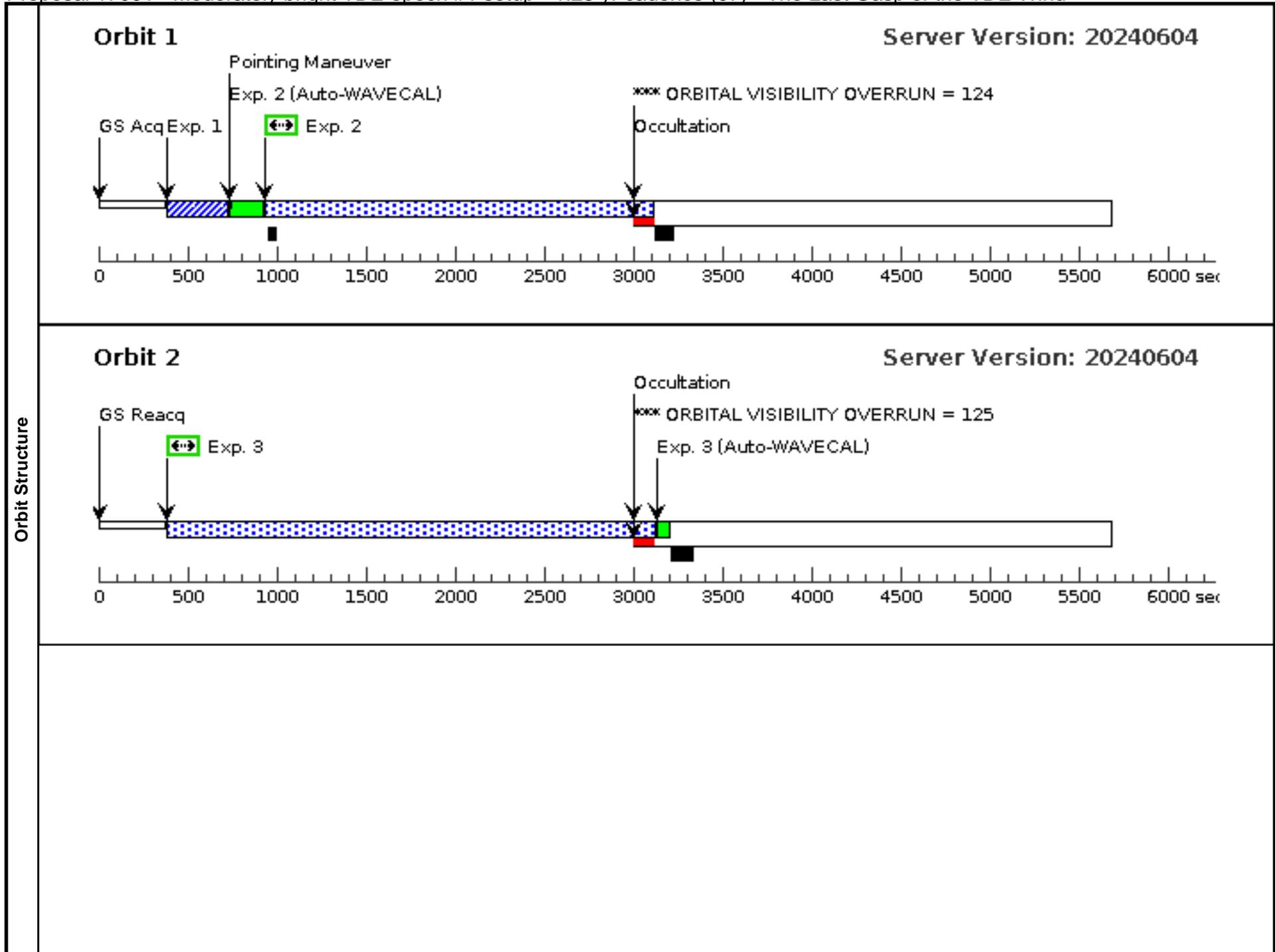
Proposal 17001 - Moderately bright TDE epoch #1 setup - 1.25 yr cadence (07) - The Last Gasp of the TDE Wind

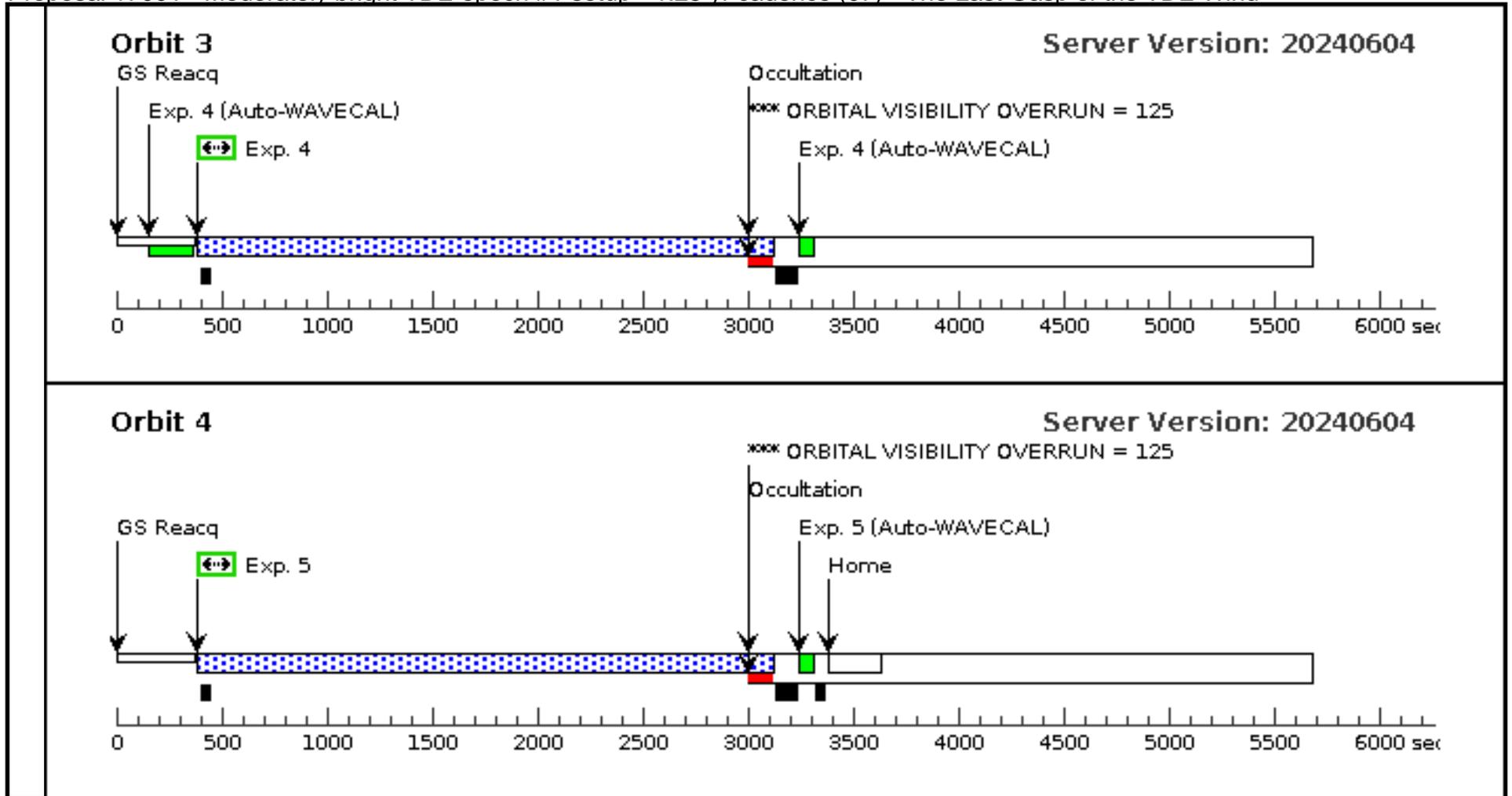
Wed Jun 12 14:00:48 GMT 2024

Visit	<p>Proposal 17001, Moderately bright TDE epoch #1 setup - 1.25 yr cadence (07), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: ON HOLD ; TOO RESPONSE TIME 50.0D</p> <p><i>Comments: This observation assumes the TDE is NOT bright enough for a strong filter or TIME-TAG mode.</i></p> <p><i>Since this has 1.25 year cadence, it is followed by visit (08) for epoch #2</i></p> <p><i>On Hold Comments: Target of opportunity.</i></p> <p><i>Conditional on TOO properties as follow if target is less bright.</i></p> <p><i>This setup will be triggered for a less-bright TDE which does not warrant a strong acquisition filter or TIME-TAG mode. Choice of target is somewhat flexible - we expect a bright (absolute $V < -18$) transient consistent with a galactic nucleus at $z < 0.2$, which may be refined by optical spectroscopy (notable TDE characteristics include broad Balmer, He II or Bowen lines) or X-rays (e.g. supersoft quasi-blackbody spectrum), but there is enough variety in possible distinctive characteristics that a narrow definition is not practical. We expect to confirm UV brightness and MAMA safety via Swift or other UV instruments (eg XMM if necessary).</i></p> <p><i>Acquisition time may need to be modified.</i></p>			
	Diagnostics	(Moderately bright TDE epoch #1 setup - 1.25 yr cadence (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN		
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Generic Targets	#	Name	Criteria	Description
	(2)	TDE-TOO-2	UV-bright Tidal Disruption Event	ACCRETION DISK BLR NUCLEUS WIND
<p><i>Comments: Bright optical/UV flare consistent with the location of a galactic nucleus (and consistent with common TDE photometric or spectroscopic signatures such as broad lines from Balmer, He II or Bowen transitions, or supersoft X-ray spectrum). We will confirm useful UV brightness e.g. via Swift. Primary selection may be from ATels or follow-up of optical or X-ray surveys.</i></p>				

Proposal 17001 - Moderately bright TDE epoch #1 setup - 1.25 yr cadence (07) - The Last Gasp of the TDE Wind

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	Moderately bright TDE acquisition (STIS.ta.152 3424)	(2) TDE-TOO-2	STIS/CCD, ACQ, 50CCD	MIRROR		ACQTYPE=DIFFUSE; CHECKBOX=13.0; DIFFUSE-CENTER=FLUX-CENTROID			15 Secs (15 Secs) [==>]	[1]
	2	Moderately bright TDE NUV spectrum (STIS.sp.15 23427)	(2) TDE-TOO-2	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A					1300 Secs (2165 Secs) [==>2165.0 Secs]	[1]
	3	Moderately bright TDE NUV spectrum (STIS.sp.15 23427)	(2) TDE-TOO-2	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A					2500 Secs (2722 Secs) [==>2722.0 Secs]	[2]
	4	Moderately bright TDE FUV spectrum (STIS.sp.15 23425)	(2) TDE-TOO-2	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A					1300 Secs (2722 Secs) [==>2722.0 Secs]	[3]
	5	Moderately bright TDE FUV spectrum (STIS.sp.15 23425)	(2) TDE-TOO-2	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A					2500 Secs (2722 Secs) [==>2722.0 Secs]	[4]

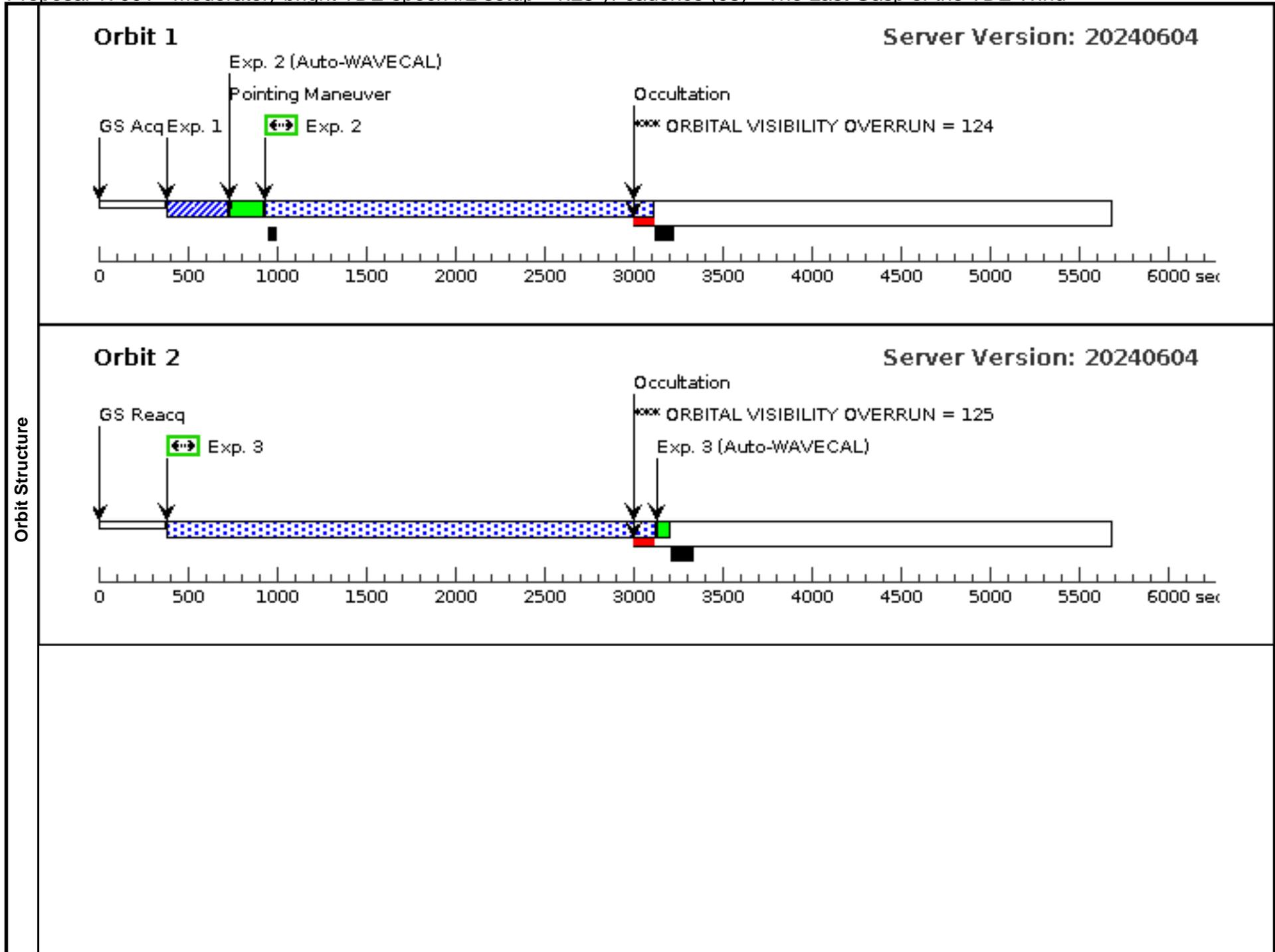


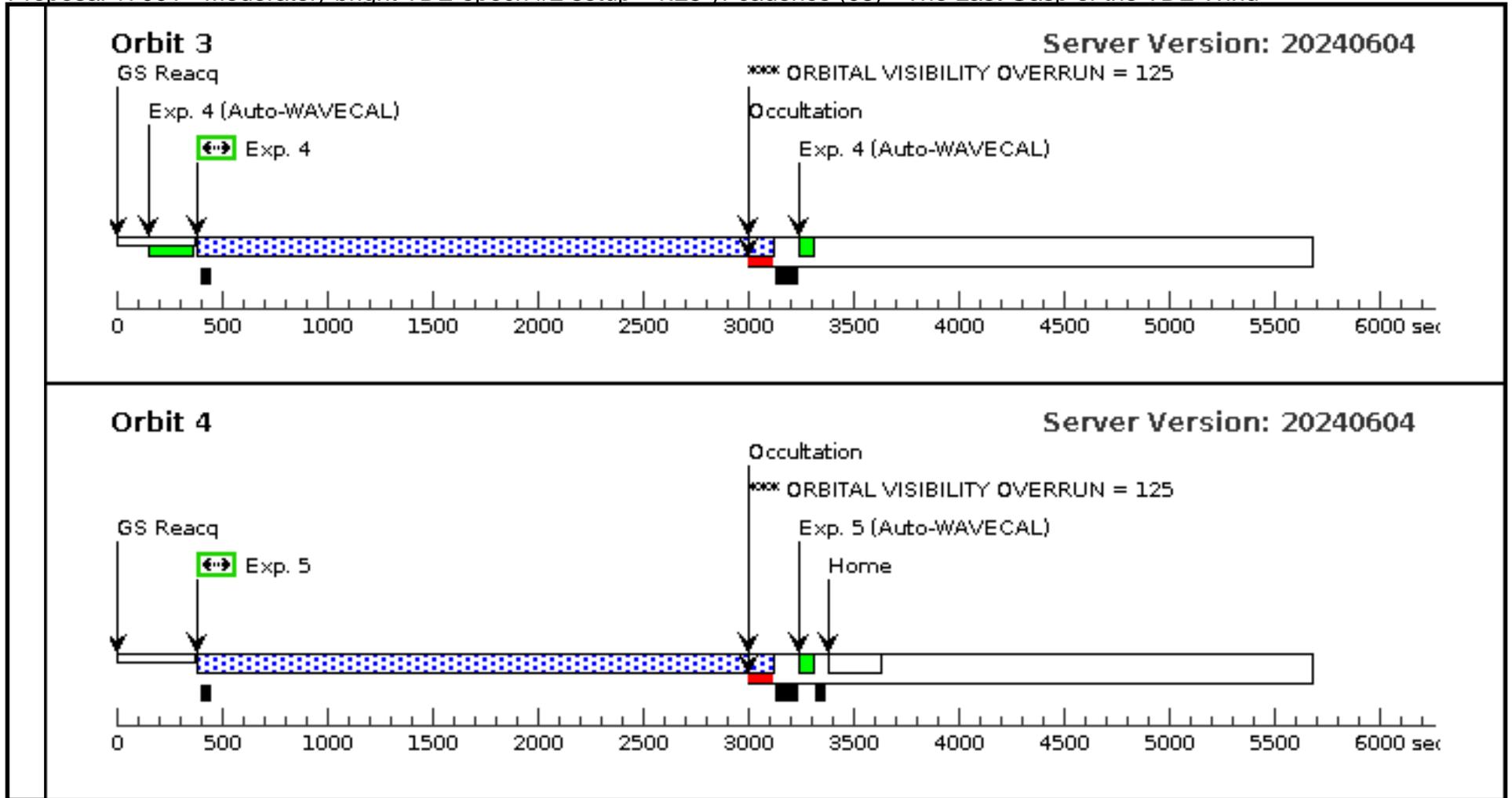


Proposal 17001 - Moderately bright TDE epoch #2 setup - 1.25 yr cadence (08) - The Last Gasp of the TDE Wind

Wed Jun 12 14:00:48 GMT 2024

Visit	<p>Proposal 17001, Moderately bright TDE epoch #2 setup - 1.25 yr cadence (08), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: AFTER 07 BY 399 D TO 513 D; ON HOLD</p> <p><i>Comments: This observation assumes the TDE is NOT sufficiently bright for a strong filter or TIME-TAG mode.</i></p> <p><i>"Typical" TDEs for this program can expect epoch #2 after ~1 year and epoch #3 after ~2 years. The relevant "Eddington timescale" will be estimated from archival photometry of the host galaxy (or more reliable archival/published results as available) and consequent estimates of the associated black hole mass when epoch #1 is triggered, so the timing requirements may need to be refined. Depending upon the target, it may also be possible to expand the window if visibility becomes an issue. Buffer times may also need to be increased.</i></p> <p><i>On Hold Comments: Conditional on confirmation that the timing requirements are appropriate for the observed host galaxy properties or light curve decay rate. Acquisition time and timing requirements may need to be revised.</i></p>									
	<p>(Moderately bright TDE epoch #2 setup - 1.25 yr cadence (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Moderately bright TDE epoch #2 setup - 1.25 yr cadence (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Moderately bright TDE epoch #2 setup - 1.25 yr cadence (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Moderately bright TDE epoch #2 setup - 1.25 yr cadence (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>									
Diagnosics										
Generic Targets	#	Name	Criteria	Description						
	(2)	TDE-TOO-2	UV-bright Tidal Disruption Event	ACCRETION DISK BLR NUCLEUS WIND						
<p><i>Comments: Bright optical/UV flare consistent with the location of a galactic nucleus (and consistent with common TDE photometric or spectroscopic signatures such as broad lines from Balmer, He II or Bowen transitions, or supersoft X-ray spectrum). We will confirm useful UV brightness e.g. via Swift. Primary selection may be from ATels or follow-up of optical or X-ray surveys.</i></p>										
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	2	Moderately bright TDE NUV spectrum (STIS.sp.15 23427)	(2) TDE-TOO-2	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				1300 Secs (2165 Secs) [==>2165.0 Secs]	[1]
	3	Moderately bright TDE NUV spectrum (STIS.sp.15 23427)	(2) TDE-TOO-2	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2500 Secs (2722 Secs) [==>2722.0 Secs]	[2]
	4	Moderately bright TDE FUV spectrum (STIS.sp.15 23425)	(2) TDE-TOO-2	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				2500 Secs (2722 Secs) [==>2722.0 Secs]	[3]
	5	Moderately bright TDE FUV spectrum (STIS.sp.15 23425)	(2) TDE-TOO-2	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				2500 Secs (2722 Secs) [==>2722.0 Secs]	[4]





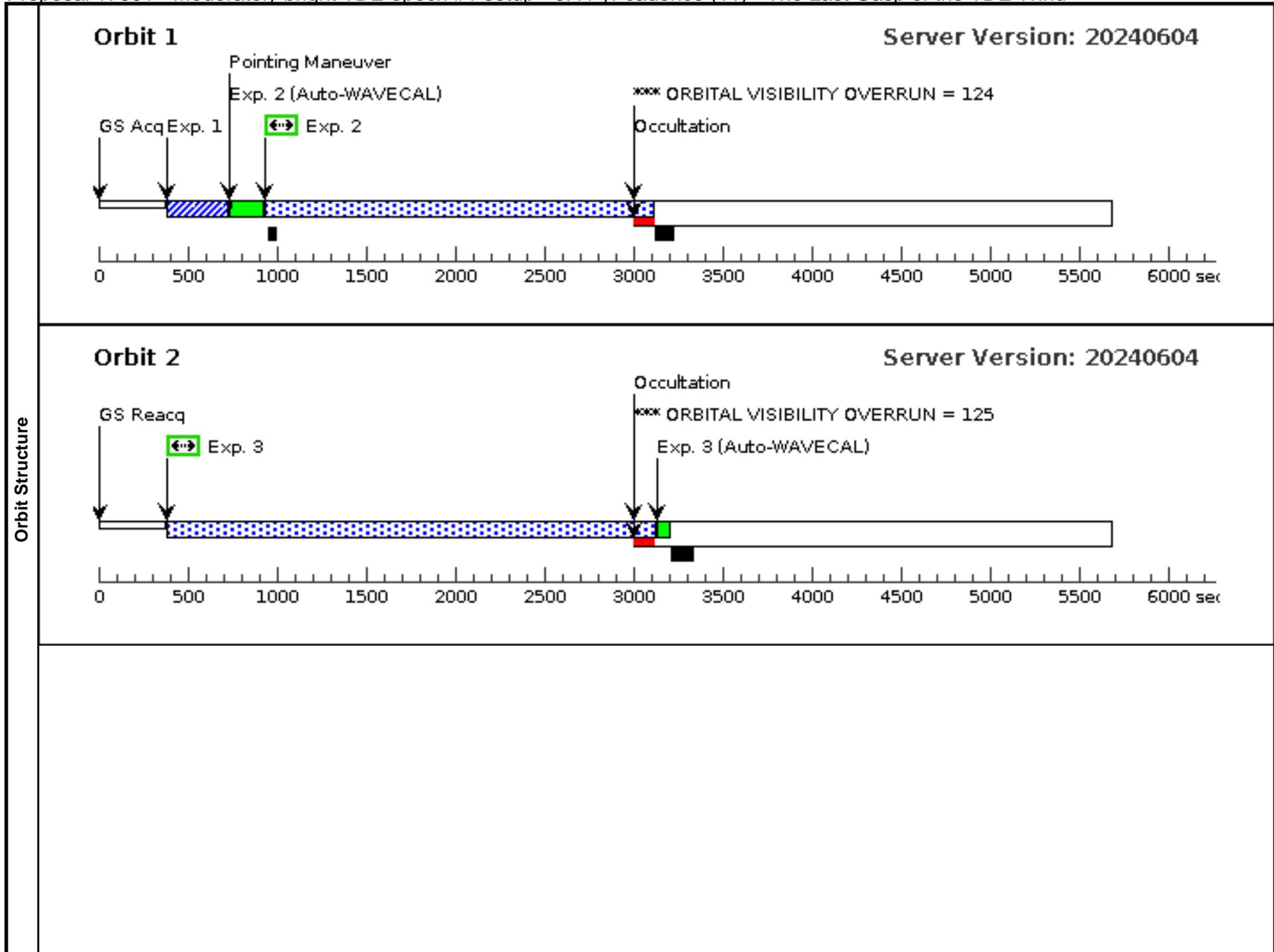
Proposal 17001 - Moderately bright TDE epoch #1 setup - 0.41 yr cadence (11) - The Last Gasp of the TDE Wind

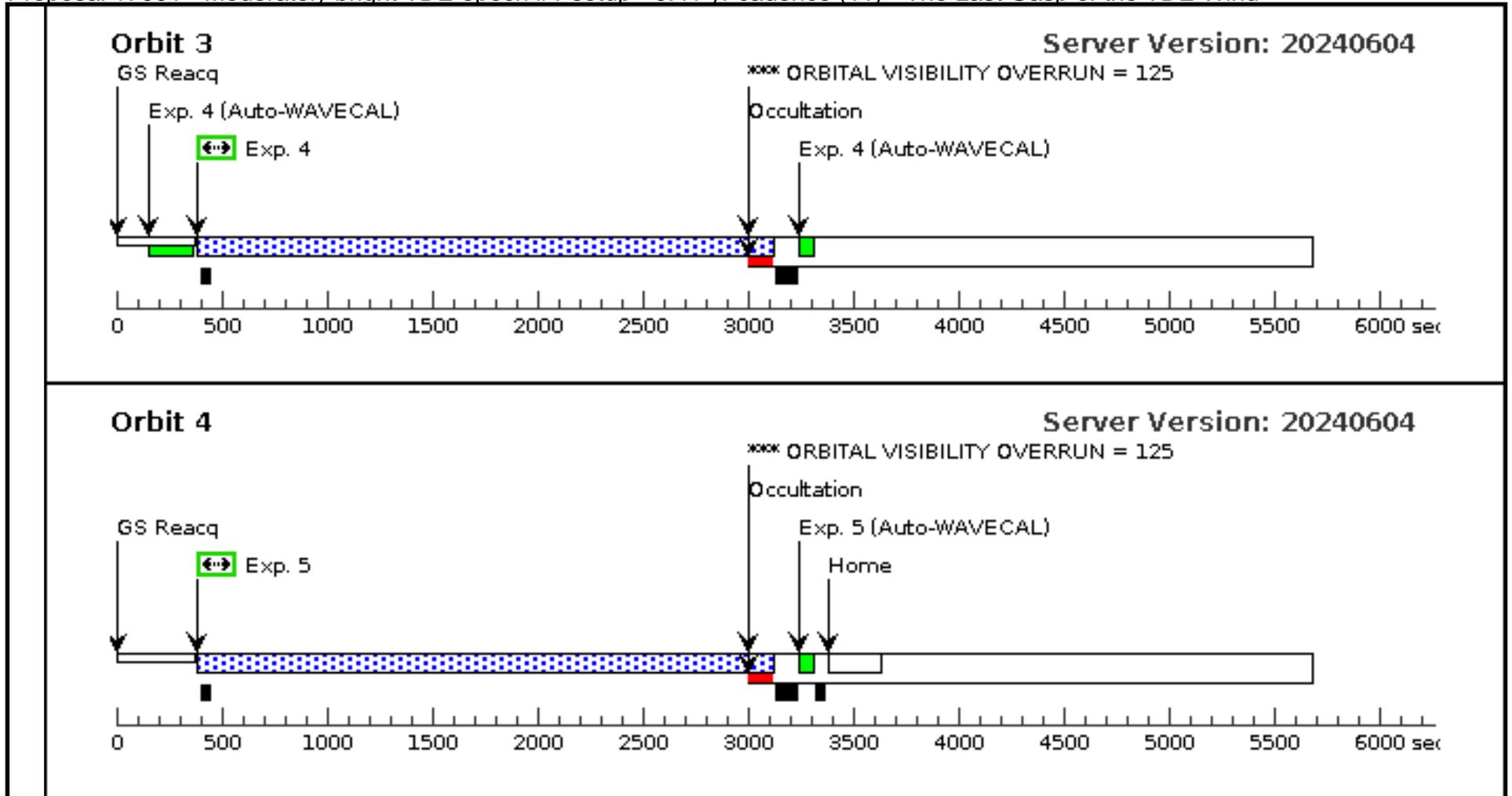
Wed Jun 12 14:00:48 GMT 2024

Visit	<p>Proposal 17001, Moderately bright TDE epoch #1 setup - 0.41 yr cadence (11), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: ON HOLD ; TOO RESPONSE TIME 50.0D</p> <p><i>Comments: This observation assumes the TDE is NOT bright enough for a strong filter or TIME-TAG mode.</i></p> <p><i>Since this has 0.41 year cadence, it is followed by visit (12) for epoch #2</i></p> <p><i>On Hold Comments: Target of opportunity.</i></p> <p><i>Conditional on TOO properties as follow if target is less bright.</i></p> <p><i>This setup will be triggered for a less-bright TDE which does not warrant a strong acquisition filter or TIME-TAG mode. Choice of target is somewhat flexible - we expect a bright (absolute $V < -18$) transient consistent with a galactic nucleus at $z < 0.2$, which may be refined by optical spectroscopy (notable TDE characteristics include broad Balmer, He II or Bowen lines) or X-rays (e.g. supersoft quasi-blackbody spectrum), but there is enough variety in possible distinctive characteristics that a narrow definition is not practical. We expect to confirm UV brightness and MAMA safety via Swift or other UV instruments (eg XMM if necessary).</i></p> <p><i>Acquisition time may need to be modified.</i></p>								
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Proposal 17001 - Moderately bright TDE epoch #1 setup - 0.41 yr cadence (11) - The Last Gasp of the TDE Wind

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	Moderately bright TDE acquisition (STIS.ta.152 3424)	(3) TDE-TOO-3	STIS/CCD, ACQ, 50CCD	MIRROR		ACQTYPE=DIFFUSE; SE; CHECKBOX=13.0; DIFFUSE-CENTER=FLUX-CENTROID			15 Secs (15 Secs) [==>]	[1]
	2	Moderately bright TDE NUV spectrum (STIS.sp.15 23427)	(3) TDE-TOO-3	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A					1300 Secs (2165 Secs) [==>2165.0 Secs]	[1]
	3	Moderately bright TDE NUV spectrum (STIS.sp.15 23427)	(3) TDE-TOO-3	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A					2500 Secs (2722 Secs) [==>2722.0 Secs]	[2]
	4	Moderately bright TDE FUV spectrum (STIS.sp.15 23425)	(3) TDE-TOO-3	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A					1300 Secs (2722 Secs) [==>2722.0 Secs]	[3]
	5	Moderately bright TDE FUV spectrum (STIS.sp.15 23425)	(3) TDE-TOO-3	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A					2500 Secs (2722 Secs) [==>2722.0 Secs]	[4]

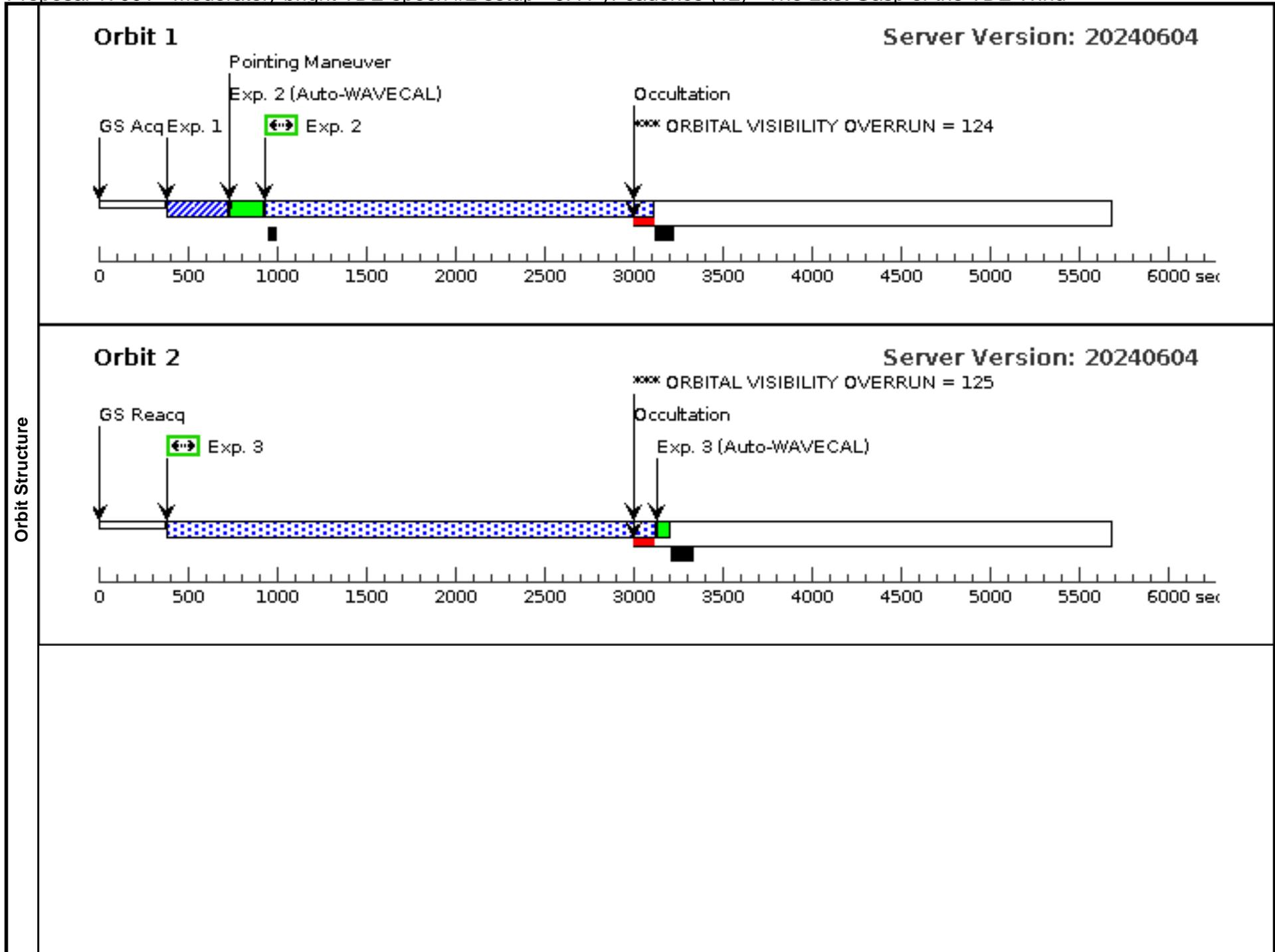


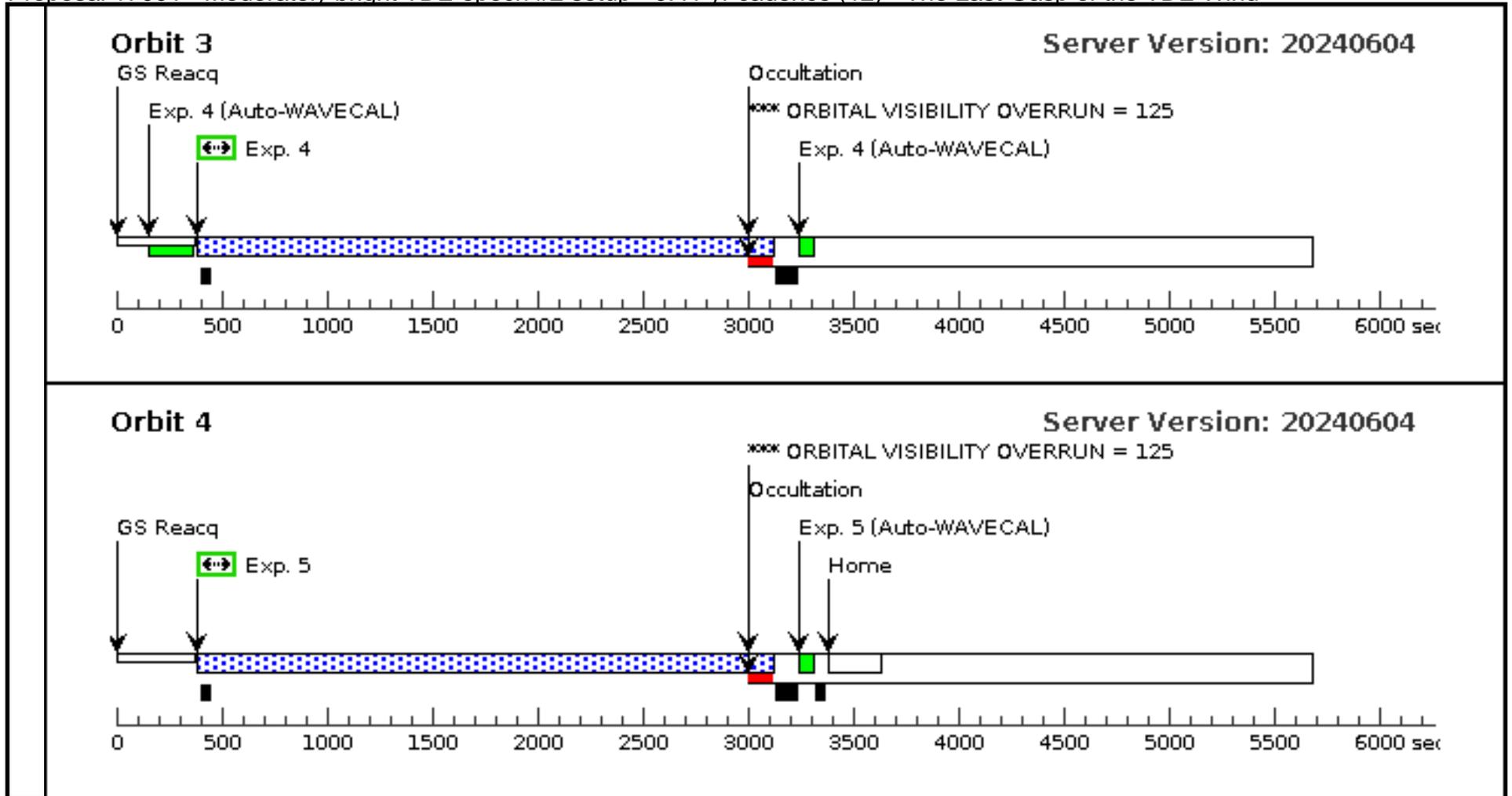


Proposal 17001 - Moderately bright TDE epoch #2 setup - 0.41 yr cadence (12) - The Last Gasp of the TDE Wind

Wed Jun 12 14:00:48 GMT 2024

Visit	<p>Proposal 17001, Moderately bright TDE epoch #2 setup - 0.41 yr cadence (12), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: AFTER 11 BY 131 D TO 168 D; ON HOLD</p> <p><i>Comments: This observation assumes the TDE is NOT sufficiently bright for a strong filter or TIME-TAG mode.</i></p> <p><i>"Typical" TDEs for this program can expect epoch #2 after ~1 year and epoch #3 after ~2 years. The relevant "Eddington timescale" will be estimated from archival photometry of the host galaxy (or more reliable archival/published results as available) and consequent estimates of the associated black hole mass when epoch #1 is triggered, so the timing requirements may need to be refined. Depending upon the target, it may also be possible to expand the window if visibility becomes an issue. Buffer times may also need to be increased.</i></p> <p><i>On Hold Comments: Conditional on confirmation that the timing requirements are appropriate for the observed host galaxy properties or light curve decay rate. Acquisition time and timing requirements may need to be revised.</i></p>																																																																					
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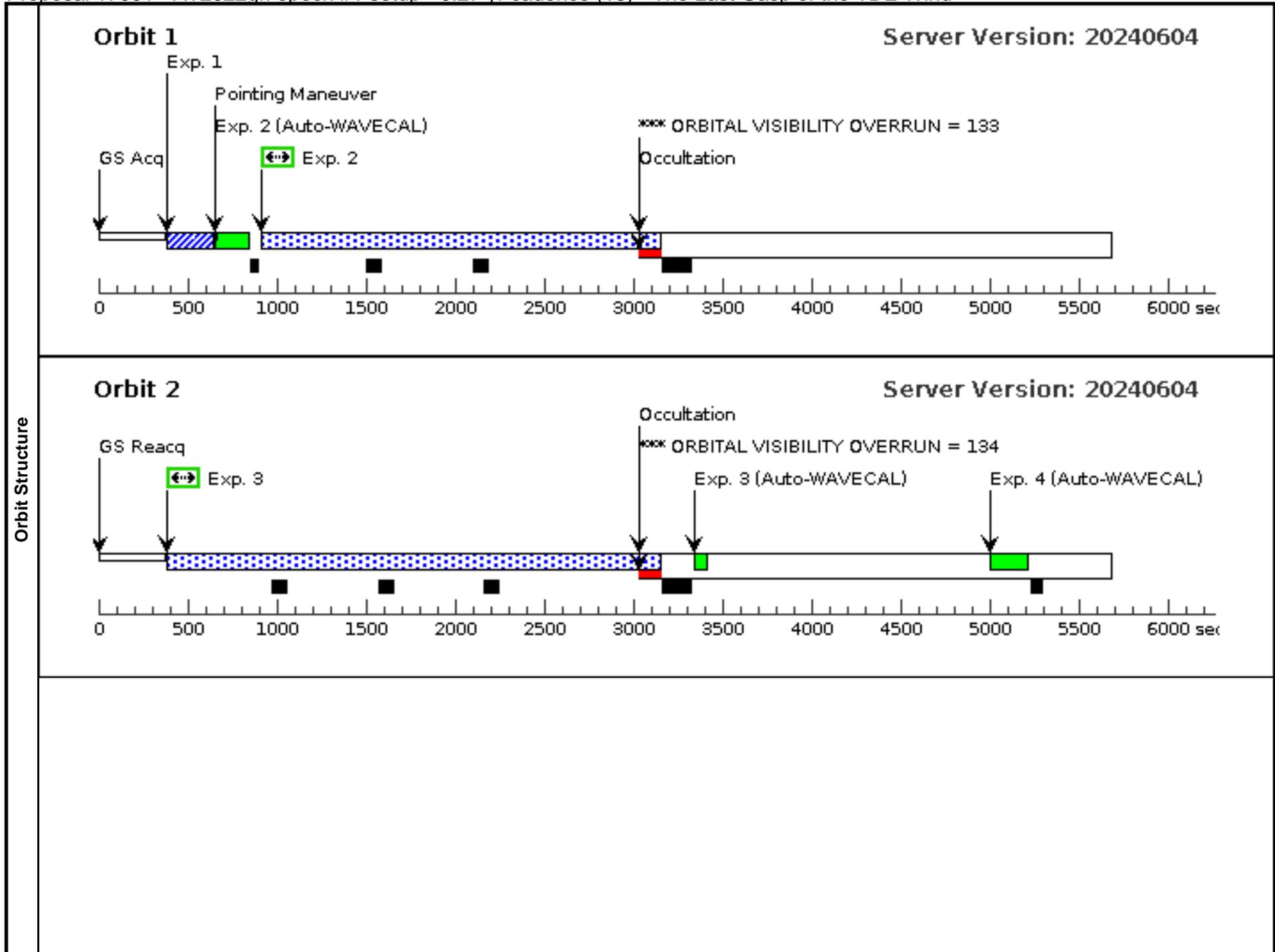


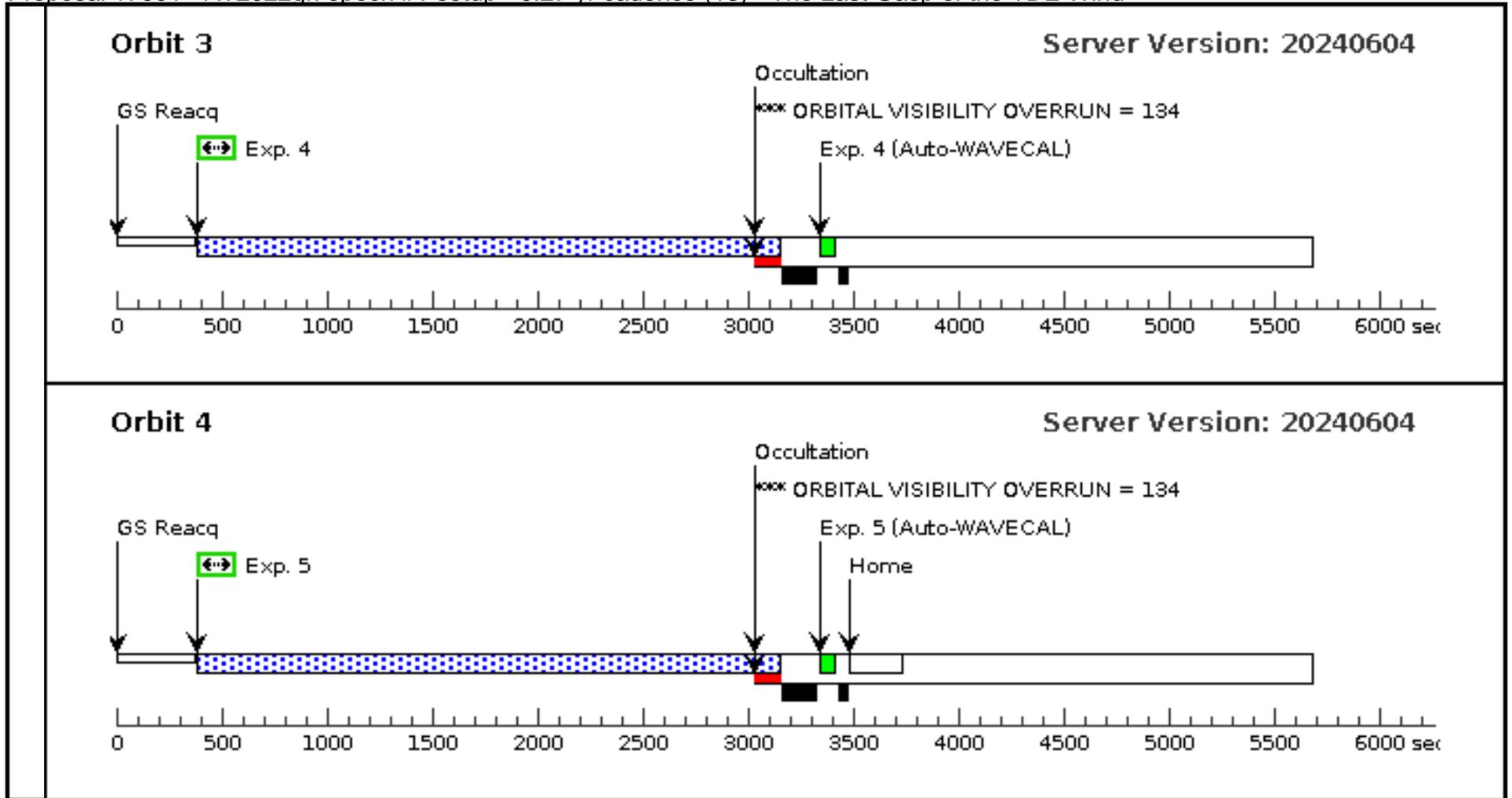


Proposal 17001 - AT2022gri epoch #1 setup - 0.27 yr cadence (13) - The Last Gasp of the TDE Wind

Wed Jun 12 14:00:48 GMT 2024

Visit	<p>Proposal 17001, AT2022gri epoch #1 setup - 0.27 yr cadence (13), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: ON HOLD ; TOO RESPONSE TIME 50.0D</p> <p>Comments: This visit will use TIME-TAG mode.</p> <p>It is followed by visit (14) for epoch #2</p> <p>On Hold Comments: These observations of AT2022gri use a template based on AT2022dsb, which we triggered in cycle #1 of this program.</p> <p>AT2022gri (https://www.wis-tns.org/object/2022gri) is ideal for this program. It has an optical (ASAS-SN) trigger, nuclear location, TDE emission lines, and prior faint Swift X-ray detection which suggests XMM could do much better.</p> <p>From host photometry, we estimate the black hole mass to be $\sim 2e7$ solar masses, so we expect the Eddington timescale to be ~ 200 days, so we will sample UV spectroscopy 3x over that period. Our primary constraint is orbital visibility, which is close to the timescale we are interested in.</p>																																																																	
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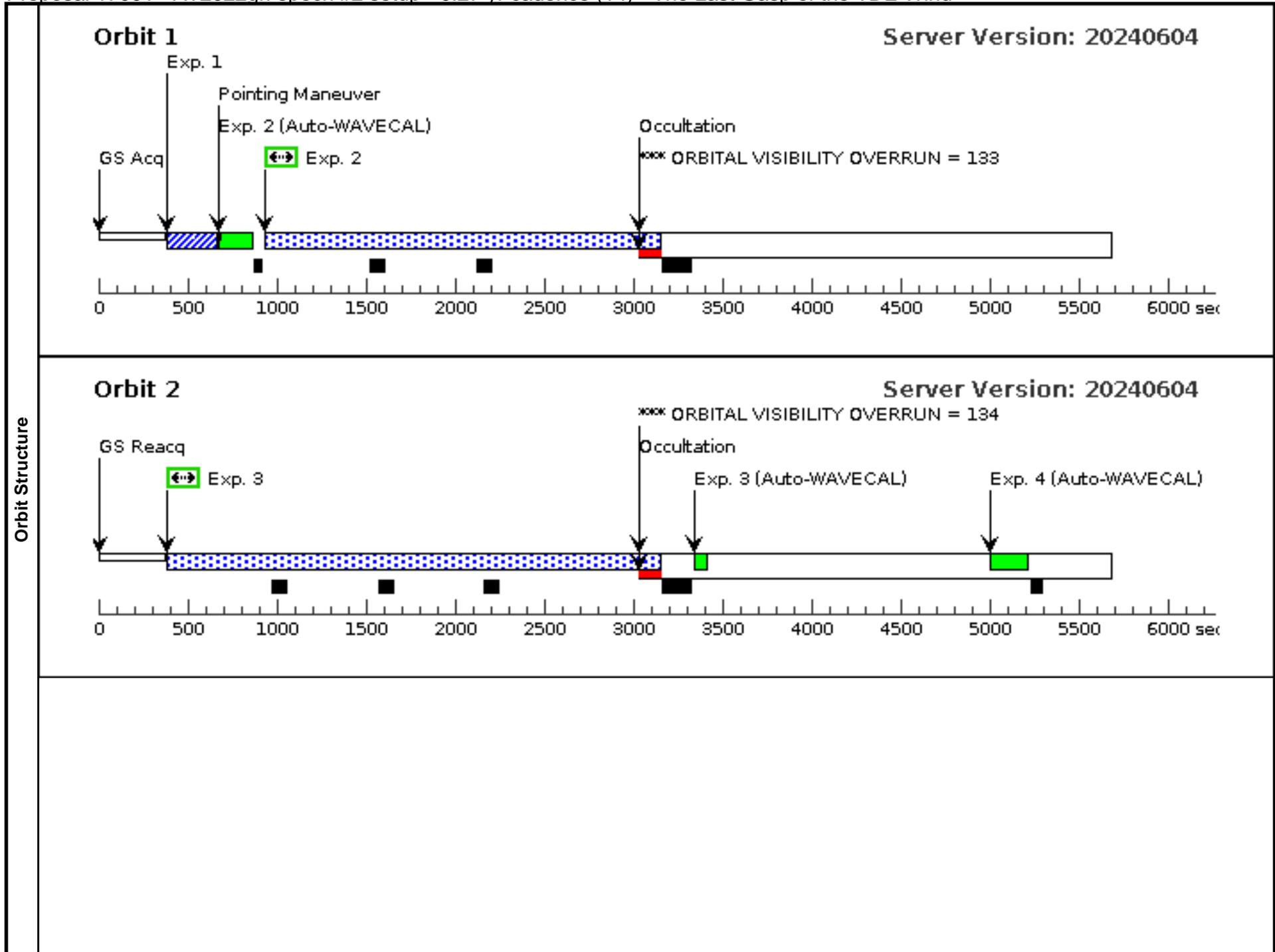


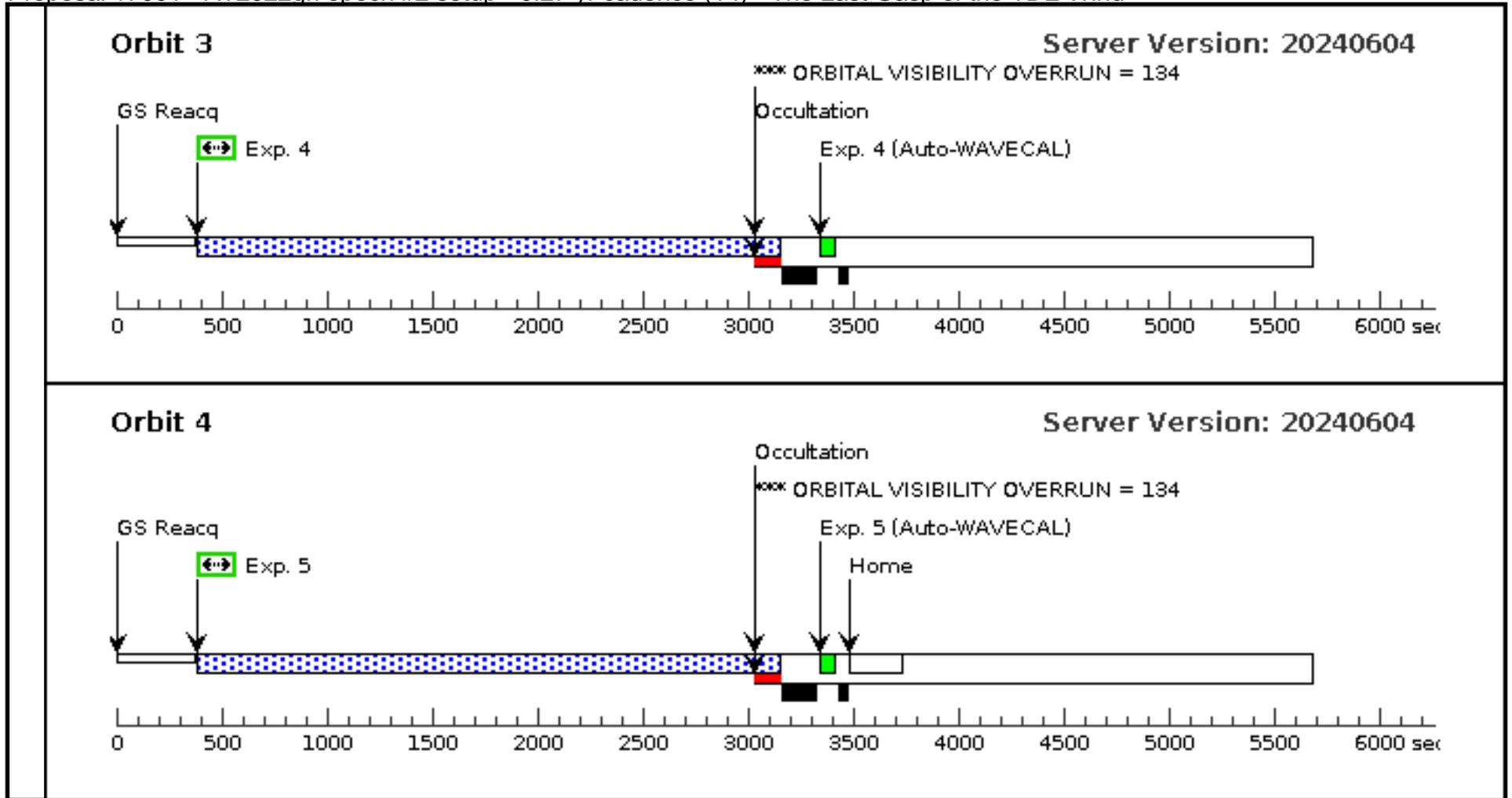


Proposal 17001 - AT2022gri epoch #2 setup - 0.27 yr cadence (14) - The Last Gasp of the TDE Wind

Wed Jun 12 14:00:48 GMT 2024

Visit	<p>Proposal 17001, AT2022gri epoch #2 setup - 0.27 yr cadence (14), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: AFTER 13 BY 75.0 D TO 125 D; ON HOLD</p> <p>Comments: This visit will use TIME-TAG mode.</p> <p>"Typical" TDEs for this program can expect epoch #2 after ~1 year and epoch #3 after ~2 years. The relevant "Eddington timescale" (Lodato & Rossi 2011). Based on Pan-STARRS imaging of the host galaxy, we estimate this to be ~200 days, over which we would observe the target 3 times. We may need to be flexible here due to limited observing windows.</p> <p>On Hold Comments: Epoch #2 in a sequence triggered by TOO (13)</p>									
	<p>(AT2022gri epoch #2 setup - 0.27 yr cadence (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(AT2022gri epoch #2 setup - 0.27 yr cadence (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(AT2022gri epoch #2 setup - 0.27 yr cadence (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(AT2022gri epoch #2 setup - 0.27 yr cadence (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	AT2022GRI Alt Name1: ZTF20AAHMTSO	RA: 07 18 20.7680 (109.5865333d) Dec: +33 59 41.60 (33.99489d) Equinox: J2000	Redshift: 0.028	V=18	Reference Frame: ICRS				
<p>Comments: Category=GALAXY Description=[BLR, NUCLEUS, WIND]</p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	AT2022gri acquisition (STIS.ta.1821545)	(12) AT2022GRI	STIS/CCD, ACQ, 50CCD	MIRROR	ACQTYPE=POINT			10 Secs (10 Secs) [==>]	[1]
	2	AT2022gri NUV spectrum (STIS.sp.1821551)	(12) AT2022GRI	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=59 5			2203 Secs (2203 Secs) [==>]	[1]
	3	AT2022gri NUV spectrum (STIS.sp.1821551)	(12) AT2022GRI	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=59 5			2760 Secs (2760 Secs) [==>]	[2]
	4	AT2022gri FUV spectrum (STIS.sp.1821552)	(12) AT2022GRI	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=15 00			2760 Secs (2760 Secs) [==>]	[3]
	5	AT2022gri FUV spectrum (STIS.sp.1821552)	(12) AT2022GRI	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=15 00			2760 Secs (2760 Secs) [==>]	[4]

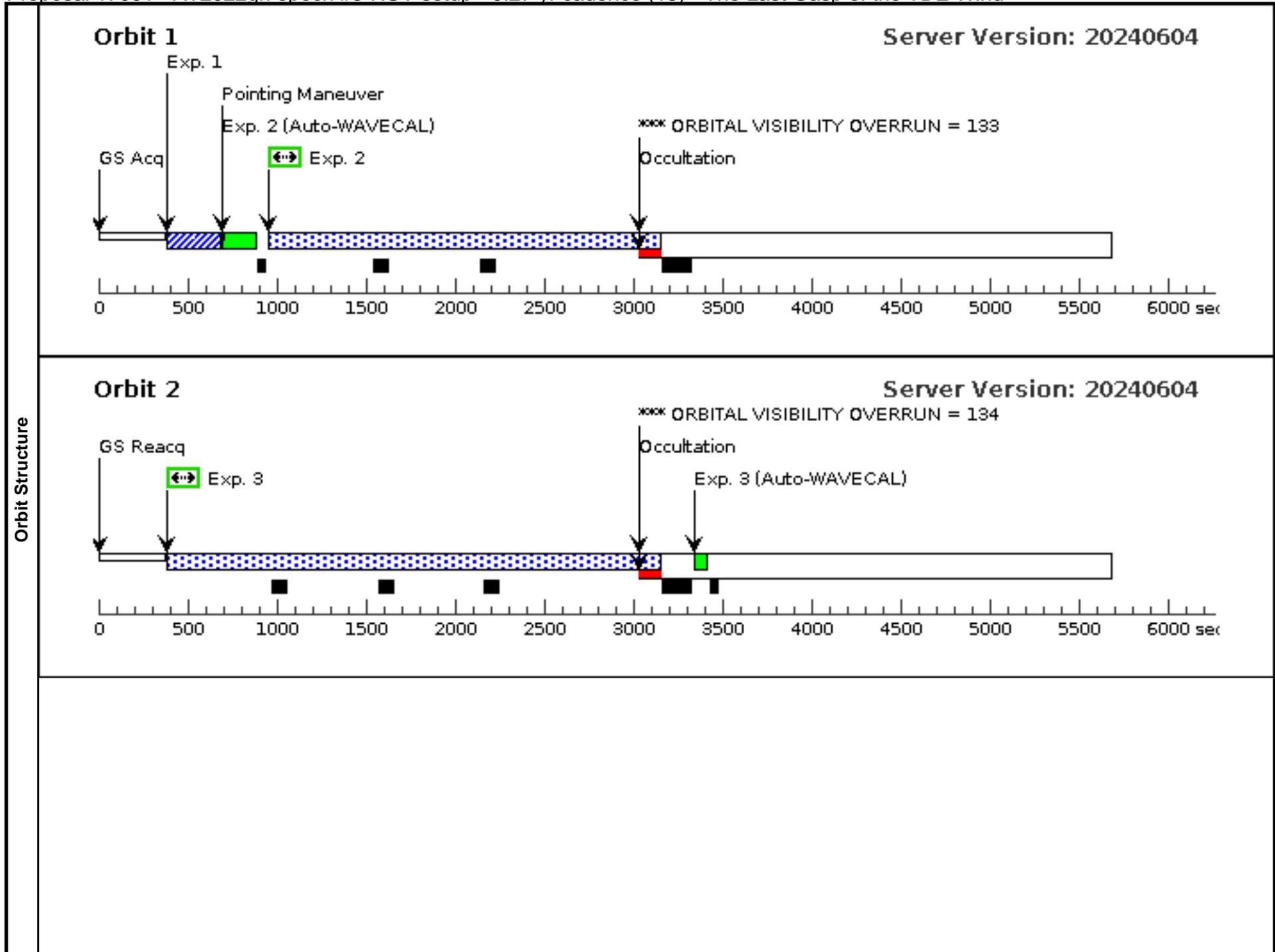


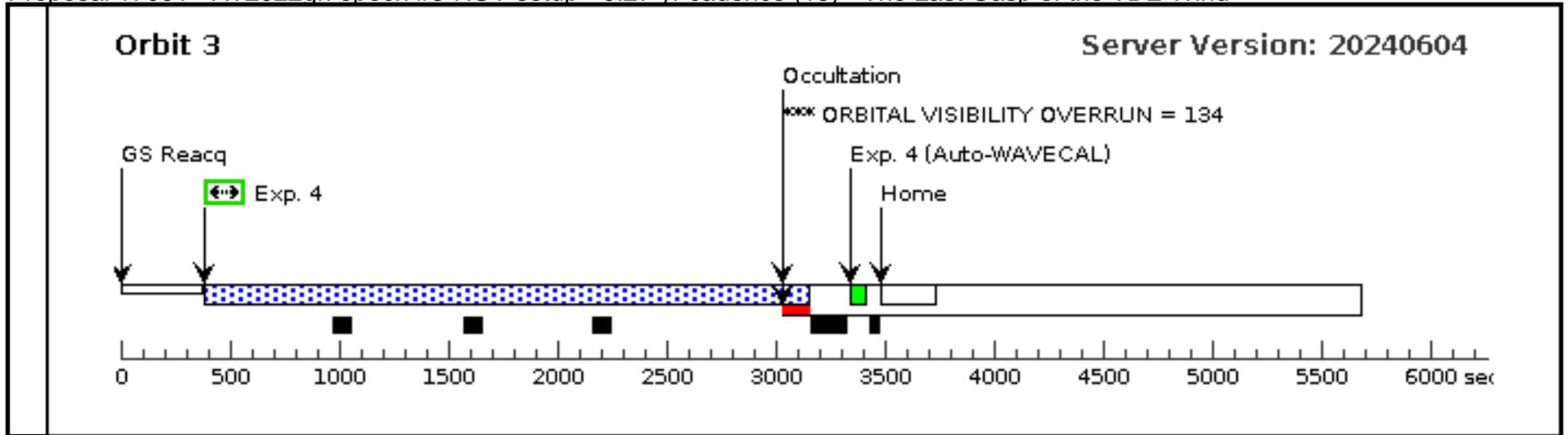


Proposal 17001 - AT2022gri epoch #3-NUV setup - 0.27 yr cadence (15) - The Last Gasp of the TDE Wind

Wed Jun 12 14:00:49 GMT 2024

Visit	<p>Proposal 17001, AT2022gri epoch #3-NUV setup - 0.27 yr cadence (15), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD</p> <p>Special Requirements: AFTER 14 BY 75 D TO 125 D; GROUP 15,16 WITHIN 5D; ON HOLD</p> <p>Comments: This visit will use TIME-TAG mode.</p> <p>"Typical" TDEs for this program can expect epoch #2 after ~1 year and epoch #3 after ~2 years. The relevant "Eddington timescale" (Lodato & Rossi 2011). Based on Pan-STARRS imaging of the host galaxy, we estimate this to be ~200 days, over which we would observe the target 3 times. We may need to be flexible here due to limited observing windows.</p> <p>On Hold Comments: NUV portion of epoch #3 in a sequence triggered by TOO (13)</p>									
	<p>(AT2022gri epoch #3-NUV setup - 0.27 yr cadence (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(AT2022gri epoch #3-NUV setup - 0.27 yr cadence (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(AT2022gri epoch #3-NUV setup - 0.27 yr cadence (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	AT2022GRI	RA: 07 18 20.7680 (109.5865333d) Alt Name1: ZTF20AAHMTSO Dec: +33 59 41.60 (33.99489d) Equinox: J2000	Redshift: 0.028	V=18	Reference Frame: ICRS				
<p>Comments: Category=GALAXY Description=[BLR, NUCLEUS, WIND]</p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	AT2022gri acquisition (STIS.ta.182 1547)	(12) AT2022GRI	STIS/CCD, ACQ, 50CCD	MIRROR	ACQTYPE=POINT			15 Secs (15 Secs) [==>]	[1]
	2	AT2022gri NUV spectrum (STIS.sp.18 21551)	(12) AT2022GRI	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=59 5			2183 Secs (2183 Secs) [==>]	[1]
	3	AT2022gri NUV spectrum (STIS.sp.18 21551)	(12) AT2022GRI	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=59 5			2760 Secs (2760 Secs) [==>]	[2]
	4	AT2022gri NUV spectrum (STIS.sp.18 21551)	(12) AT2022GRI	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=59 5			2760 Secs (2760 Secs) [==>]	[3]

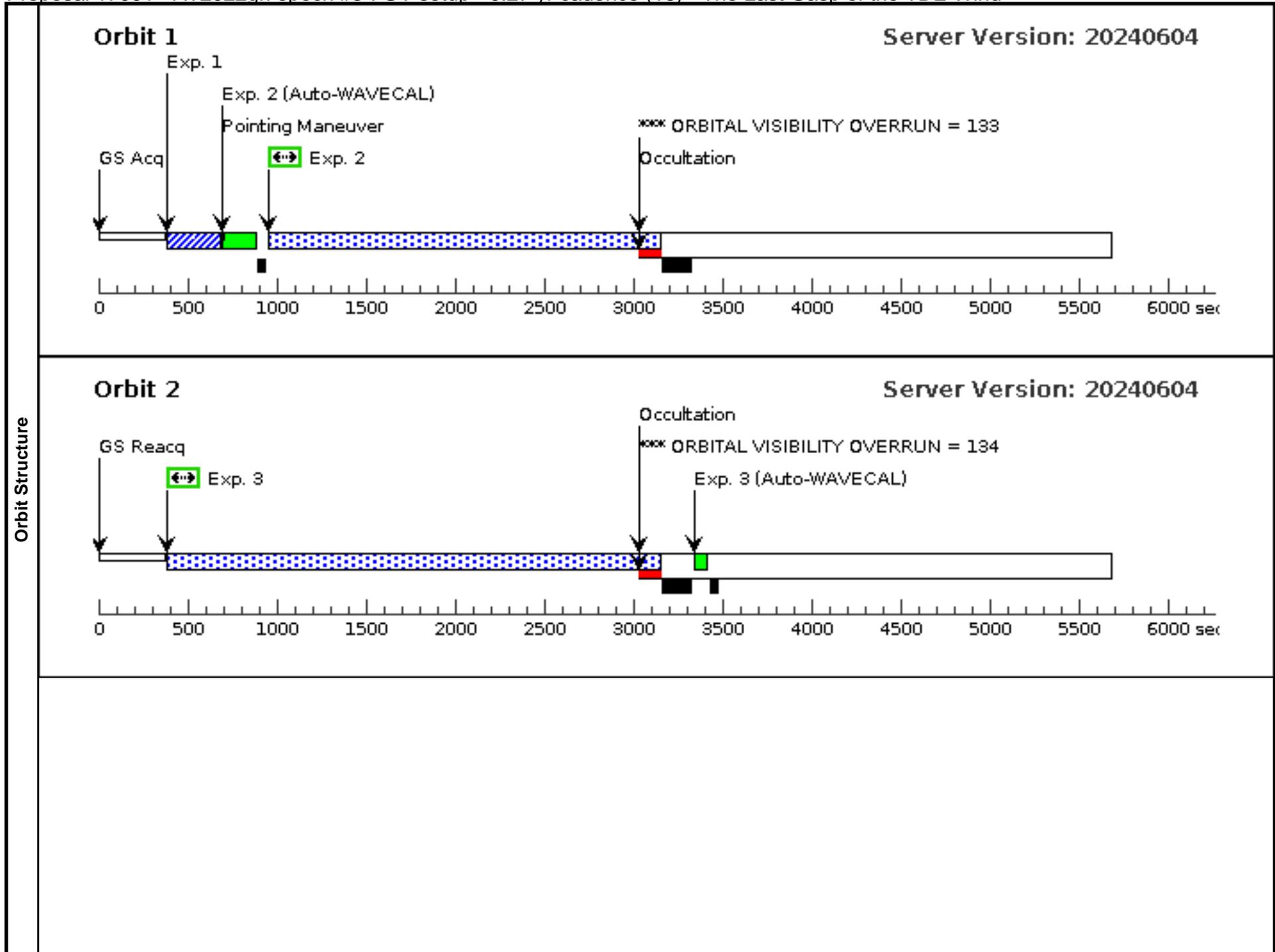


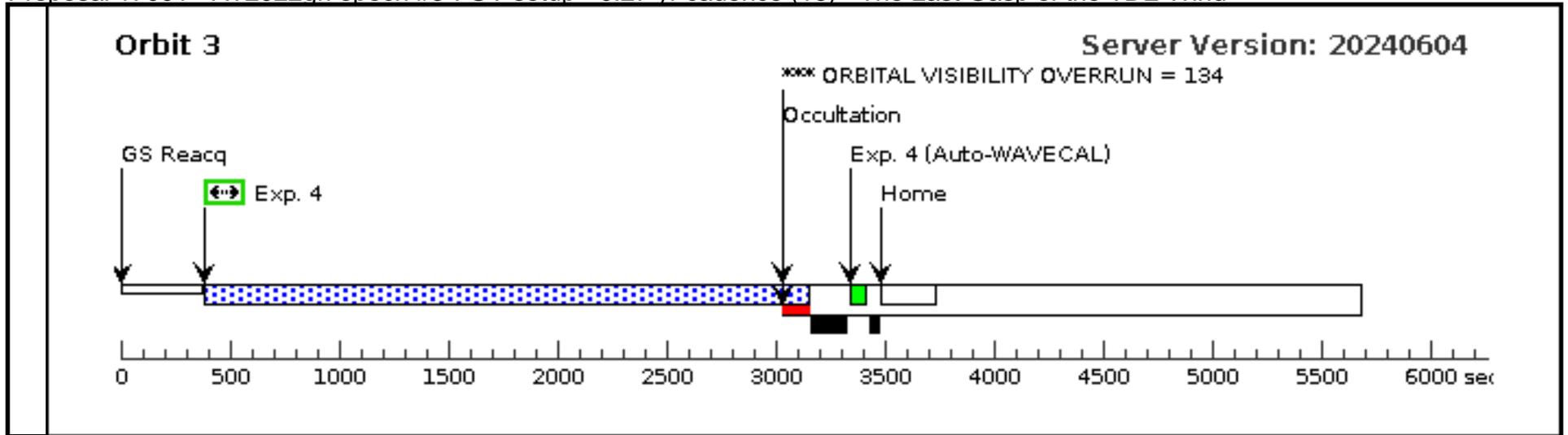


Proposal 17001 - AT2022gri epoch #3-FUV setup - 0.27 yr cadence (16) - The Last Gasp of the TDE Wind

Wed Jun 12 14:00:49 GMT 2024

Visit	<p>Proposal 17001, AT2022gri epoch #3-FUV setup - 0.27 yr cadence (16), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: AFTER 14 BY 75 D TO 125 D; GROUP 16,15 WITHIN 5D; ON HOLD</p> <p>Comments: This visit will use TIME-TAG mode.</p> <p>"Typical" TDEs for this program can expect epoch #2 after ~1 year and epoch #3 after ~2 years. The relevant "Eddington timescale" (Lodato & Rossi 2011). Based on Pan-STARRS imaging of the host galaxy, we estimate this to be ~200 days, over which we would observe the target 3 times. We may need to be flexible here due to limited observing windows.</p> <p>On Hold Comments: FUV portion of epoch #3 in a sequence triggered by TOO (13)</p>									
	<p>(AT2022gri epoch #3-FUV setup - 0.27 yr cadence (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(AT2022gri epoch #3-FUV setup - 0.27 yr cadence (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(AT2022gri epoch #3-FUV setup - 0.27 yr cadence (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	AT2022GRI	RA: 07 18 20.7680 (109.5865333d) Alt Name1: ZTF20AAHMTSO Dec: +33 59 41.60 (33.99489d) Equinox: J2000	Redshift: 0.028	V=18	Reference Frame: ICRS				
<p>Comments: Category=GALAXY Description=[BLR, NUCLEUS, WIND]</p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	AT2022gri a cquisition (STIS.ta.182 1547)	(12) AT2022GRI	STIS/CCD, ACQ, 50CCD	MIRROR	ACQTYPE=POINT			15 Secs (15 Secs) [==>]	[1]
	2	AT2022gri FUV spectru m (STIS.sp.18 21552)	(12) AT2022GRI	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=15 00			2183 Secs (2183 Secs) [==>]	[1]
	3	AT2022gri FUV spectru m (STIS.sp.18 21552)	(12) AT2022GRI	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=15 00			2760 Secs (2760 Secs) [==>]	[2]
	4	AT2022gri FUV spectru m (STIS.sp.18 21552)	(12) AT2022GRI	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=15 00			2760 Secs (2760 Secs) [==>]	[3]





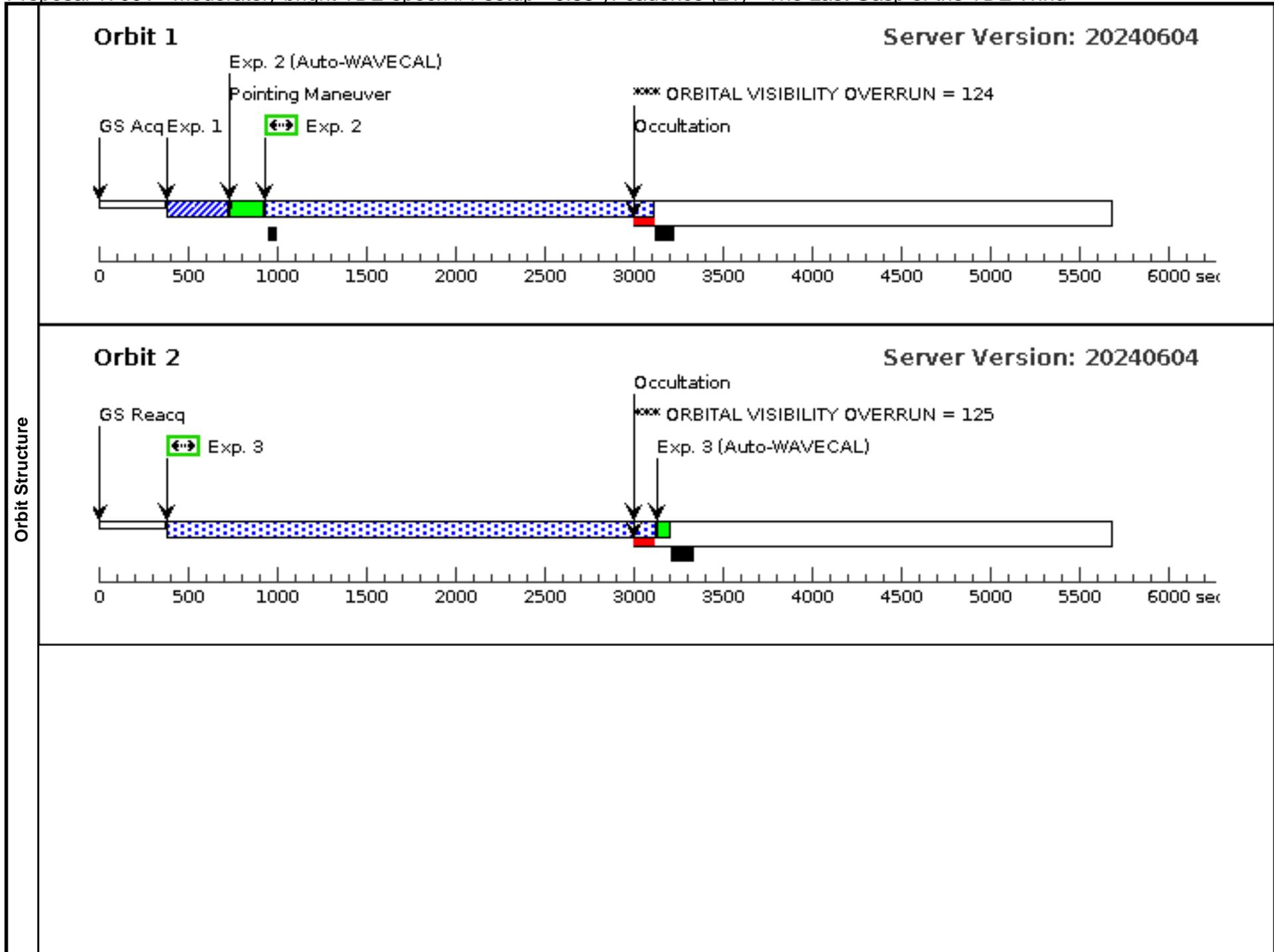
Proposal 17001 - Moderately bright TDE epoch #1 setup - 0.55 yr cadence (21) - The Last Gasp of the TDE Wind

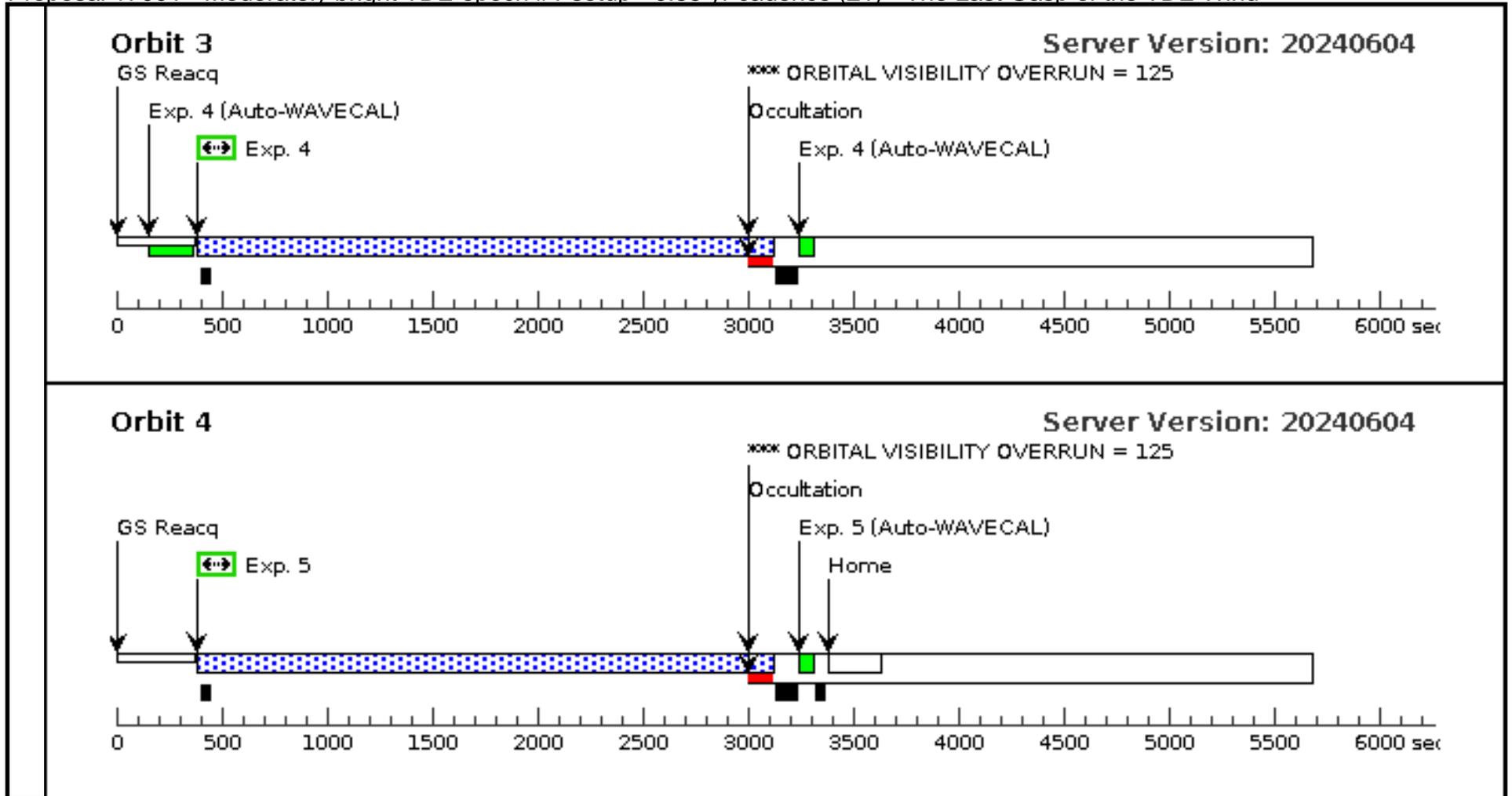
Wed Jun 12 14:00:49 GMT 2024

Visit	<p>Proposal 17001, Moderately bright TDE epoch #1 setup - 0.55 yr cadence (21), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: ON HOLD ; TOO RESPONSE TIME 50.0D</p> <p><i>Comments: This observation assumes the TDE is NOT bright enough for a strong filter or TIME-TAG mode.</i></p> <p><i>Since this has 0.55 year cadence, it is followed by visit (16) for epoch #2</i></p> <p><i>On Hold Comments: Target of opportunity.</i></p> <p><i>Conditional on TOO properties as follow if target is less bright.</i></p> <p><i>This setup will be triggered for a less-bright TDE which does not warrant a strong acquisition filter or TIME-TAG mode. Choice of target is somewhat flexible - we expect a bright (absolute $V < -18$) transient consistent with a galactic nucleus at $z < 0.2$, which may be refined by optical spectroscopy (notable TDE characteristics include broad Balmer, He II or Bowen lines) or X-rays (e.g. supersoft quasi-blackbody spectrum), but there is enough variety in possible distinctive characteristics that a narrow definition is not practical. We expect to confirm UV brightness and MAMA safety via Swift or other UV instruments (eg XMM if necessary).</i></p> <p><i>Acquisition time may need to be modified.</i></p>								
	<p>(Moderately bright TDE epoch #1 setup - 0.55 yr cadence (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Moderately bright TDE epoch #1 setup - 0.55 yr cadence (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Moderately bright TDE epoch #1 setup - 0.55 yr cadence (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Moderately bright TDE epoch #1 setup - 0.55 yr cadence (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>								
Generic Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Criteria</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>TDE-TOO-4</td> <td>UV-bright Tidal Disruption Event</td> <td></td> </tr> </tbody> </table> <p><i>Comments: Bright optical/UV flare consistent with the location of a galactic nucleus (and consistent with common TDE photometric or spectroscopic signatures such as broad lines from Balmer, He II or Bowen transitions, or supersoft X-ray spectrum). We will confirm useful UV brightness e.g. via Swift. Primary selection may be from ATels or follow-up of optical or X-ray surveys.</i></p>	#	Name	Criteria	Description	(4)	TDE-TOO-4	UV-bright Tidal Disruption Event	
	#	Name	Criteria	Description					
(4)	TDE-TOO-4	UV-bright Tidal Disruption Event							

Proposal 17001 - Moderately bright TDE epoch #1 setup - 0.55 yr cadence (21) - The Last Gasp of the TDE Wind

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	Moderately bright TDE acquisition (STIS.ta.152 3424)	(4) TDE-TOO-4	STIS/CCD, ACQ, 50CCD	MIRROR		ACQTYPE=DIFFUSE; CHECKBOX=13.0; DIFFUSE-CENTER=FLUX-CENTROID			15 Secs (15 Secs) [==>]	[1]
	2	Moderately bright TDE NUV spectrum (STIS.sp.15 23427)	(4) TDE-TOO-4	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A					1300 Secs (2165 Secs) [==>2165.0 Secs]	[1]
	3	Moderately bright TDE NUV spectrum (STIS.sp.15 23427)	(4) TDE-TOO-4	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A					2500 Secs (2722 Secs) [==>2722.0 Secs]	[2]
	4	Moderately bright TDE FUV spectrum (STIS.sp.15 23425)	(4) TDE-TOO-4	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A					1300 Secs (2722 Secs) [==>2722.0 Secs]	[3]
	5	Moderately bright TDE FUV spectrum (STIS.sp.15 23425)	(4) TDE-TOO-4	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A					2500 Secs (2722 Secs) [==>2722.0 Secs]	[4]

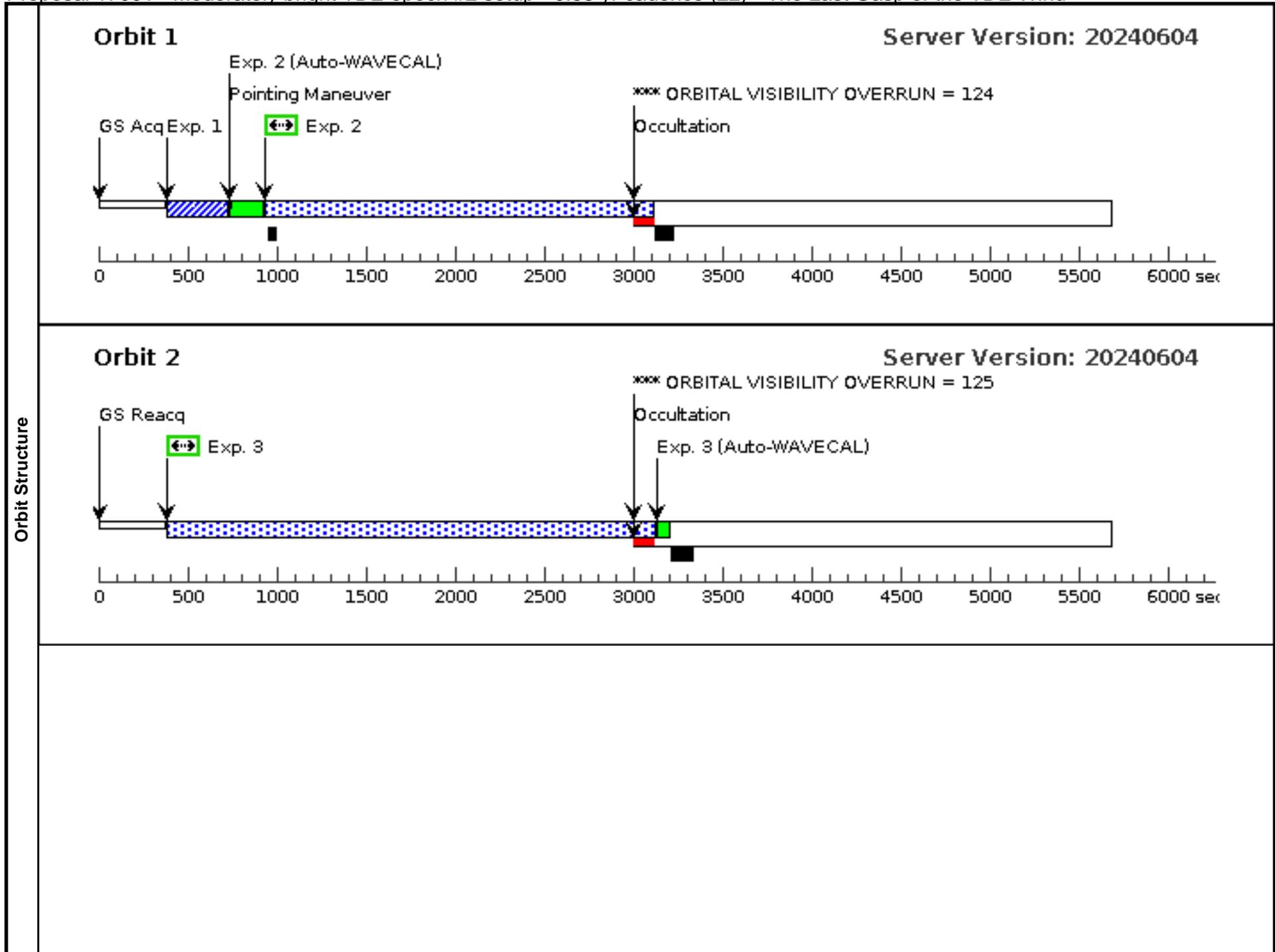


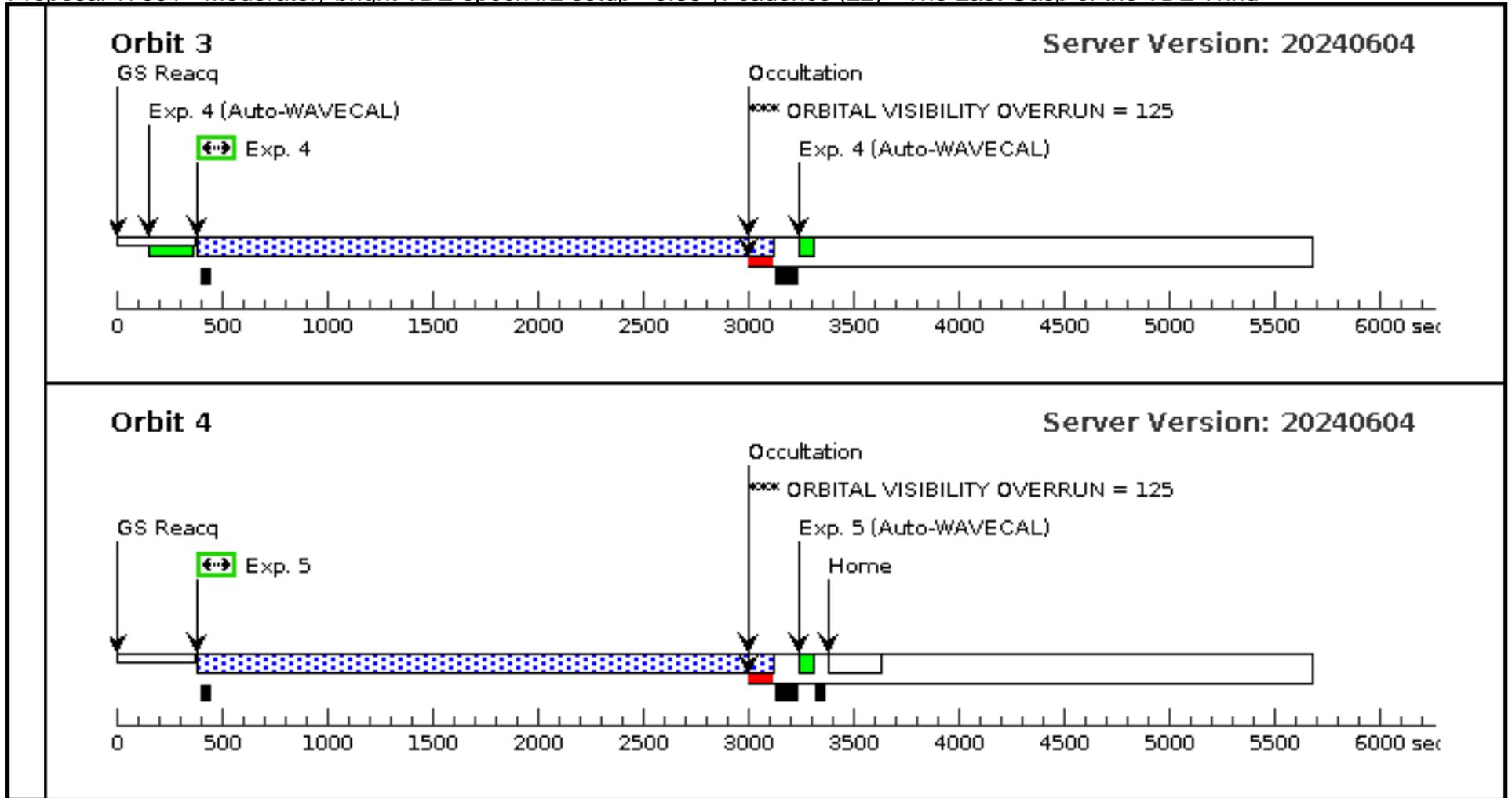


Proposal 17001 - Moderately bright TDE epoch #2 setup - 0.55 yr cadence (22) - The Last Gasp of the TDE Wind

Wed Jun 12 14:00:49 GMT 2024

Visit	<p>Proposal 17001, Moderately bright TDE epoch #2 setup - 0.55 yr cadence (22), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: AFTER 21 BY 176 D TO 226 D; ON HOLD</p> <p><i>Comments: This observation assumes the TDE is NOT sufficiently bright for a strong filter or TIME-TAG mode.</i></p> <p><i>"Typical" TDEs for this program can expect epoch #2 after ~1 year and epoch #3 after ~2 years. The relevant "Eddington timescale" will be estimated from archival photometry of the host galaxy (or more reliable archival/published results as available) and consequent estimates of the associated black hole mass when epoch #1 is triggered, so the timing requirements may need to be refined. Depending upon the target, it may also be possible to expand the window if visibility becomes an issue. Buffer times may also need to be increased.</i></p> <p><i>On Hold Comments: Conditional on confirmation that the timing requirements are appropriate for the observed host galaxy properties or light curve decay rate. Acquisition time and timing requirements may need to be revised.</i></p>																																																																					
	<p>(Moderately bright TDE epoch #2 setup - 0.55 yr cadence (22)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Moderately bright TDE epoch #2 setup - 0.55 yr cadence (22)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Moderately bright TDE epoch #2 setup - 0.55 yr cadence (22)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Moderately bright TDE epoch #2 setup - 0.55 yr cadence (22)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>																																																																					
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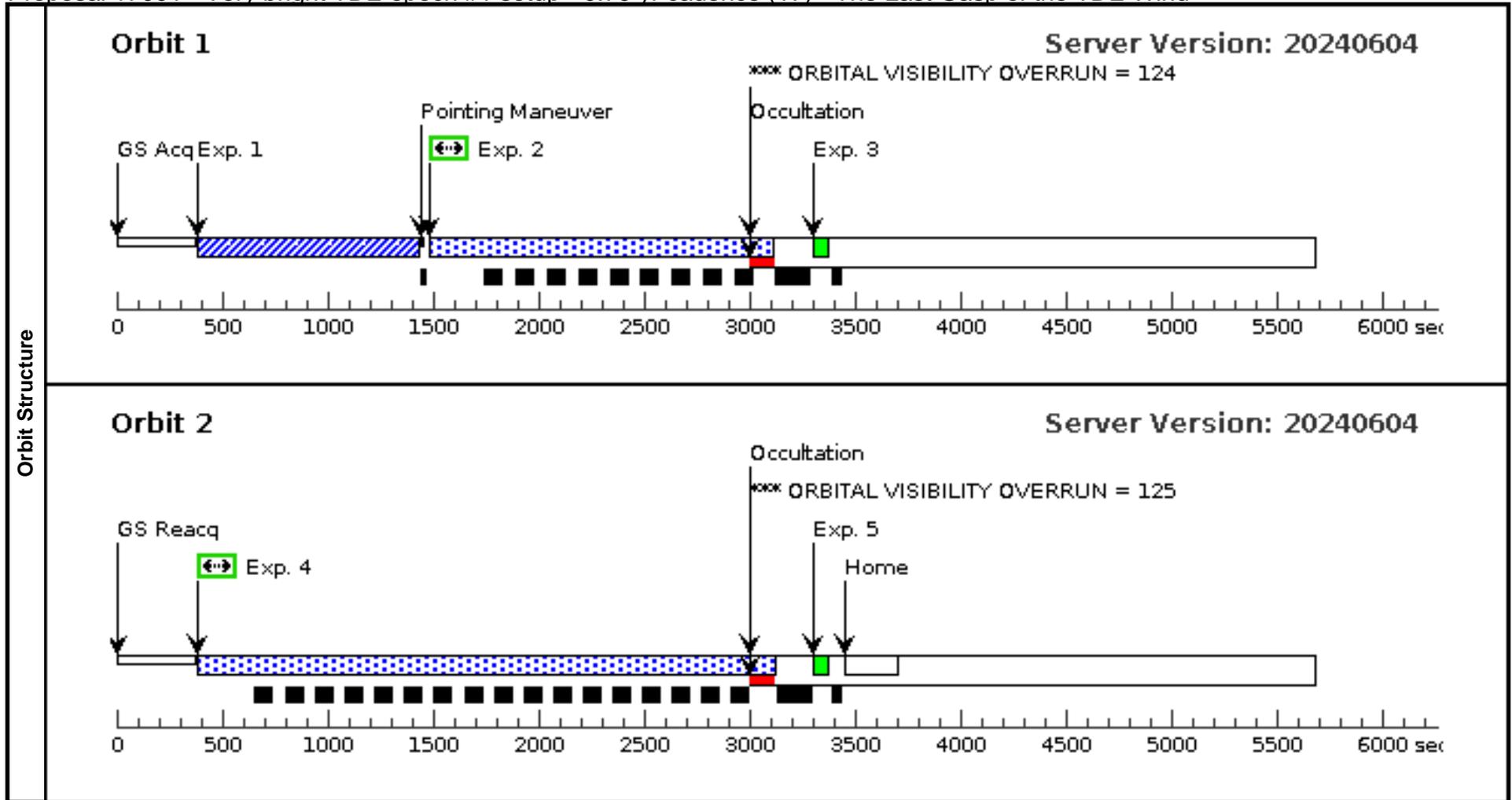




Proposal 17001 - Very bright TDE epoch #1 setup - 0.79 yr cadence (17) - The Last Gasp of the TDE Wind

Wed Jun 12 14:00:49 GMT 2024

Visit	<p>Proposal 17001, Very bright TDE epoch #1 setup - 0.79 yr cadence (17), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: ON HOLD ; TOO RESPONSE TIME 50.0D</p> <p><i>Comments: This observation assumes the TDE is sufficiently bright that a neutral density filter is necessary for acquisition, and that TIME-TAG mode will be beneficial</i></p> <p><i>Since this has 0.79 year cadence, it is followed by visit (18) for epoch #2</i></p> <p><i>On Hold Comments: Target of opportunity.</i></p> <p><i>Conditional on TOO properties as follow if target is very bright.</i></p> <p><i>This setup will be triggered for a TDE which is bright enough to require a neutral density filter for acquisition, and that TIME-TAG mode will be beneficial. In such a case, one orbit per grating may be sufficient for Epoch #1. Choice of target is somewhat flexible - we expect a bright (absolute $V < -18$) transient consistent with a galactic nucleus at $z < 0.2$, which may be refined by optical spectroscopy (notable TDE characteristics include broad Balmer, He II or Bowen lines) or X-rays (e.g. supersoft quasi-blackbody spectrum), but there is enough variety in possible distinctive characteristics that a narrow definition is not practical. We expect to confirm UV brightness and MAMA safety via Swift or other UV instruments (eg XMM if necessary).</i></p> <p><i>The buffer times may also need to be increased.</i></p>																					
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Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit												
	1	Very bright TDE acquisition (STIS.ta.152 3033)	(5) TDE-TOO-5	STIS/CCD, ACQ, F25ND3	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=13.0; DIFFUSE-CENTER=FLUX-CENTROID			180 Secs (180 Secs) [==>]	[1]												
	2	Very bright TDE NUV spectrum (STIS.sp.15 23057)	(5) TDE-TOO-5	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=148; WAVECAL=NO			1300 Secs (1502 Secs) [==>1502.0 Secs]	[1]												
	3	Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				[==>]	[1]												
	4	Very bright TDE FUV spectrum (STIS.sp.15 23058)	(5) TDE-TOO-5	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=141			1300 Secs (2581 Secs) [==>2581.0 Secs]	[2]												
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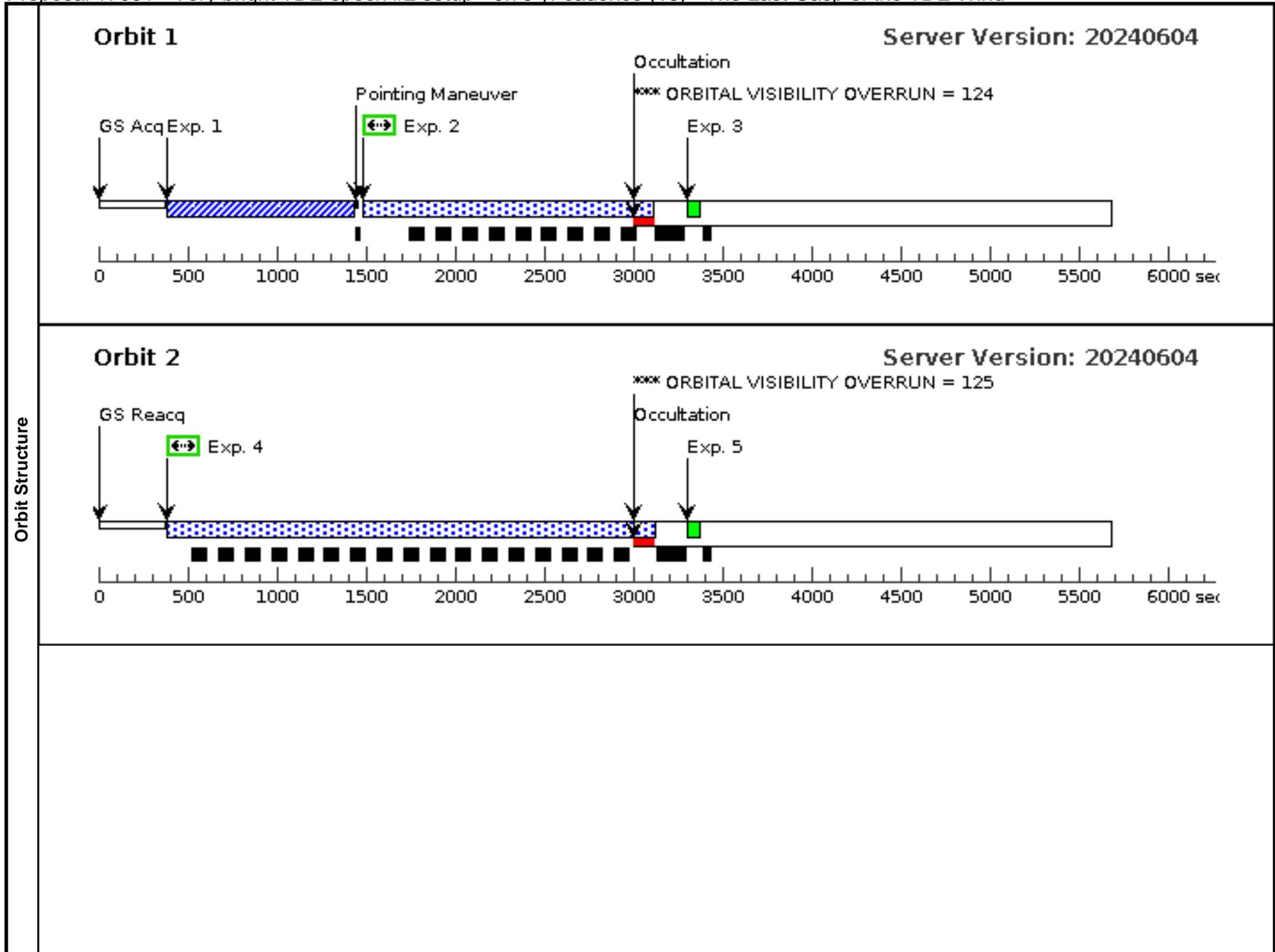
Proposal 17001 - Very bright TDE epoch #2 setup - 0.79 yr cadence (18) - The Last Gasp of the TDE Wind

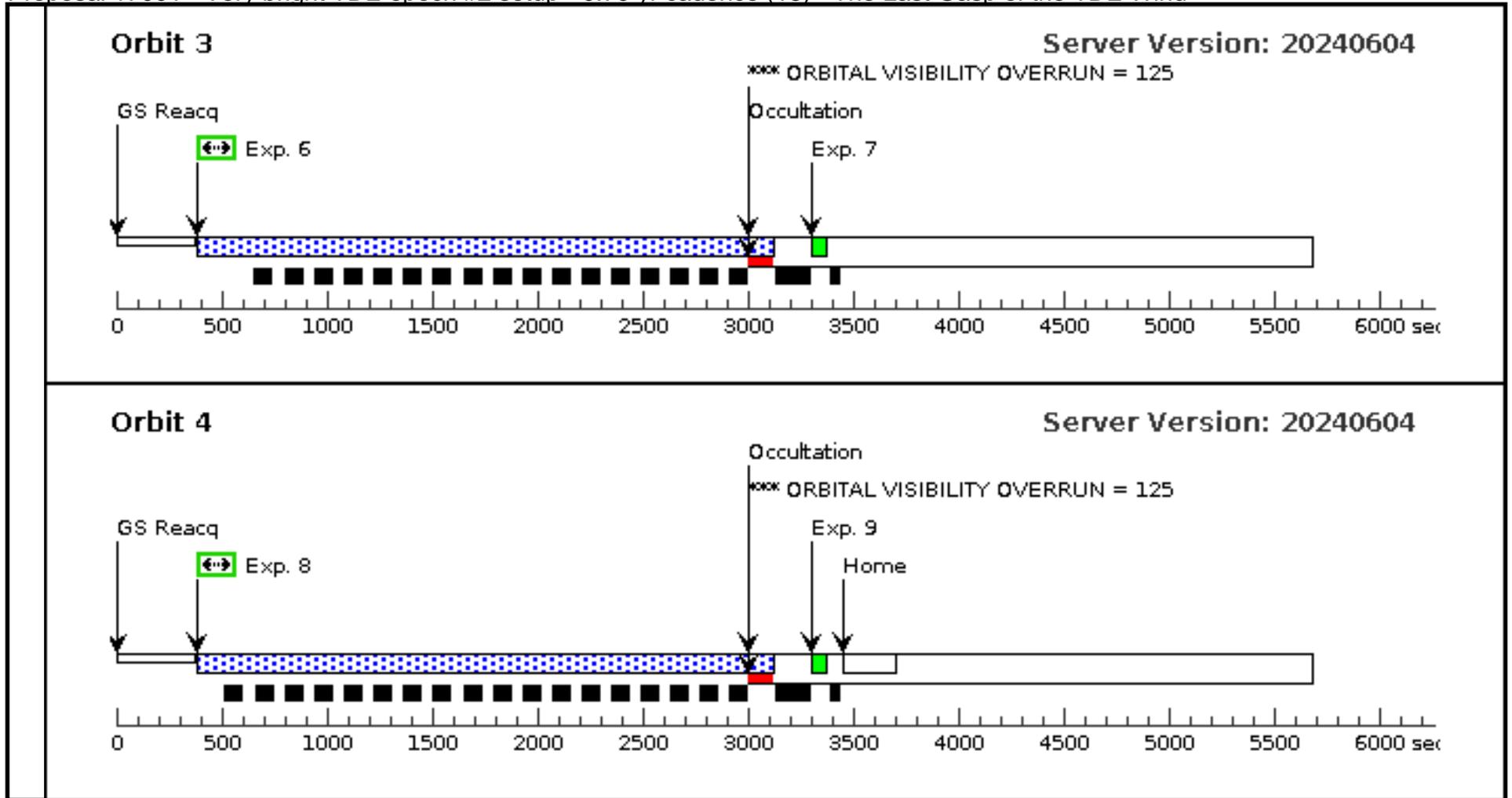
Wed Jun 12 14:00:49 GMT 2024

Visit	<p>Proposal 17001, Very bright TDE epoch #2 setup - 0.79 yr cadence (18), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: AFTER 17 BY 252 D TO 354 D; ON HOLD</p> <p><i>Comments: This observation assumes the TDE is sufficiently bright that a neutral density filter is necessary for acquisition, and that TIME-TAG mode will be beneficial.</i></p> <p><i>"Typical" TDEs for this program can expect epoch #2 after ~1 year and epoch #3 after ~2 years. The relevant "Eddington timescale" will be estimated from archival photometry of the host galaxy (or more reliable archival/published results as available) and consequent estimates of the associated black hole mass when epoch #1 is triggered, so the timing requirements may need to be refined. Depending upon the target, it may also be possible to expand the window if visibility becomes an issue. Buffer times may also need to be increased.</i></p> <p><i>On Hold Comments: Conditional on confirmation that the timing requirements are appropriate for the observed host galaxy properties or light curve decay rate. Timing requirements may need to be revised.</i></p> <p><i>Buffer times may need to be increased.</i></p>								
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<p><i>Comments: Bright optical/UV flare consistent with the location of a galactic nucleus (and consistent with common TDE photometric or spectroscopic signatures such as broad lines from Balmer, He II or Bowen transitions, or supersoft X-ray spectrum). We will confirm useful UV brightness e.g. via Swift. Primary selection may be from ATels or follow-up of optical or X-ray surveys.</i></p>									

Proposal 17001 - Very bright TDE epoch #2 setup - 0.79 yr cadence (18) - The Last Gasp of the TDE Wind

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Exposures	1	Very bright TDE acquisition (STIS.ta.1523033)	(5) TDE-TOO-5	STIS/CCD, ACQ, F25ND3	MIRROR	DIFFUSE-CENTER=FLUX-CENTROID; ACQTYPE=DIFFUSE; CHECKBOX=13		180 Secs (180 Secs) [==>]	[1]
	2	Very bright TDE NUV spectrum (STIS.sp.1523057)	(5) TDE-TOO-5	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=148; WAVECAL=NO		1300 Secs (1502 Secs) [==>1502.0 Secs]	[1]
	3	STIS NUV WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A			[==>]	[1]
	4	Very bright TDE NUV spectrum (STIS.sp.1523057)	(5) TDE-TOO-5	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=148		2500 Secs (2722 Secs) [==>2722.0 Secs]	[2]
	5	STIS NUV WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A			[==>]	[2]
	6	Very bright TDE FUV spectrum (STIS.sp.1523058)	(5) TDE-TOO-5	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=141		2500 Secs (2581 Secs) [==>2581.0 Secs]	[3]
	7	STIS FUV WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A			[==>]	[3]
	8	Very bright TDE FUV spectrum (STIS.sp.1523058)	(5) TDE-TOO-5	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=141		2500 Secs (2722 Secs) [==>2722.0 Secs]	[4]
	9	STIS FUV WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A			[==>]	[4]





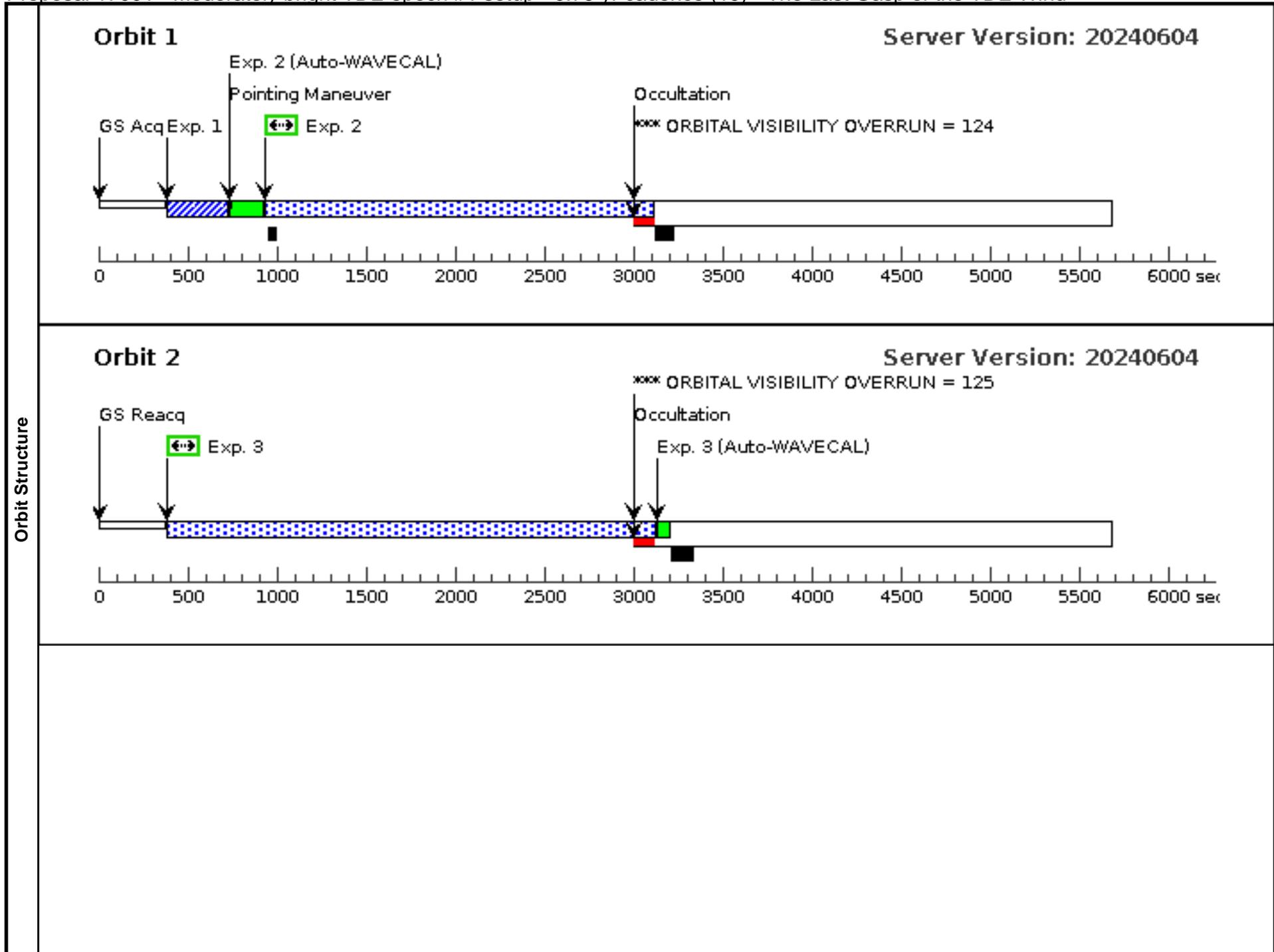
Proposal 17001 - Moderately bright TDE epoch #1 setup - 0.79 yr cadence (19) - The Last Gasp of the TDE Wind

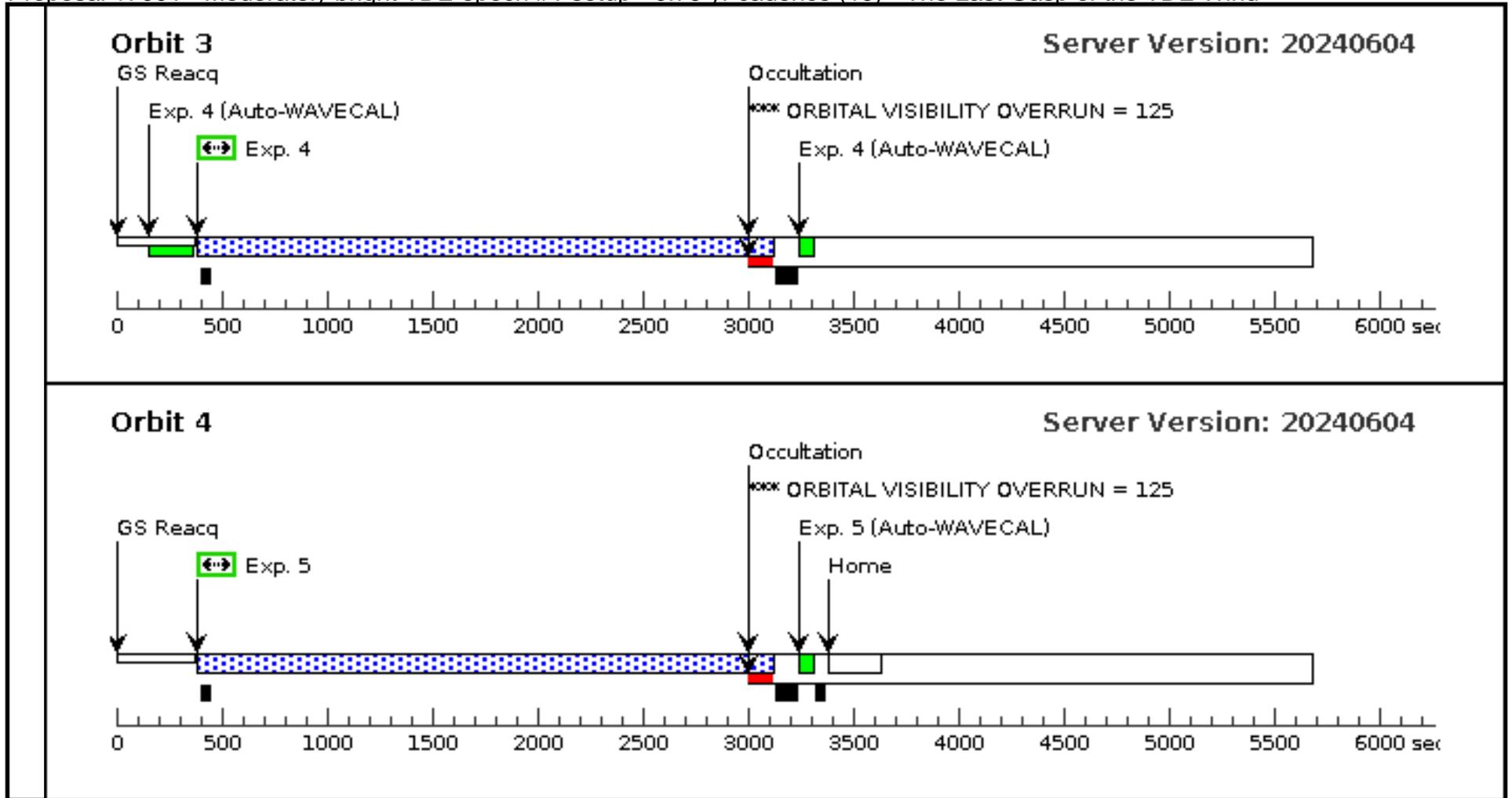
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	1	Moderately bright TDE acquisition (STIS.ta.152 3424)	(5) TDE-TOO-5	STIS/CCD, ACQ, 50CCD	MIRROR		ACQTYPE=DIFFUSE; CHECKBOX=13.0; DIFFUSE-CENTER=FLUX-CENTROID			15 Secs (15 Secs) [==>]	[1]
	2	Moderately bright TDE NUV spectrum (STIS.sp.15 23427)	(5) TDE-TOO-5	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A					1300 Secs (2165 Secs) [==>2165.0 Secs]	[1]
	3	Moderately bright TDE NUV spectrum (STIS.sp.15 23427)	(5) TDE-TOO-5	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A					2500 Secs (2722 Secs) [==>2722.0 Secs]	[2]
	4	Moderately bright TDE FUV spectrum (STIS.sp.15 23425)	(5) TDE-TOO-5	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A					1300 Secs (2722 Secs) [==>2722.0 Secs]	[3]
	5	Moderately bright TDE FUV spectrum (STIS.sp.15 23425)	(5) TDE-TOO-5	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A					2500 Secs (2722 Secs) [==>2722.0 Secs]	[4]

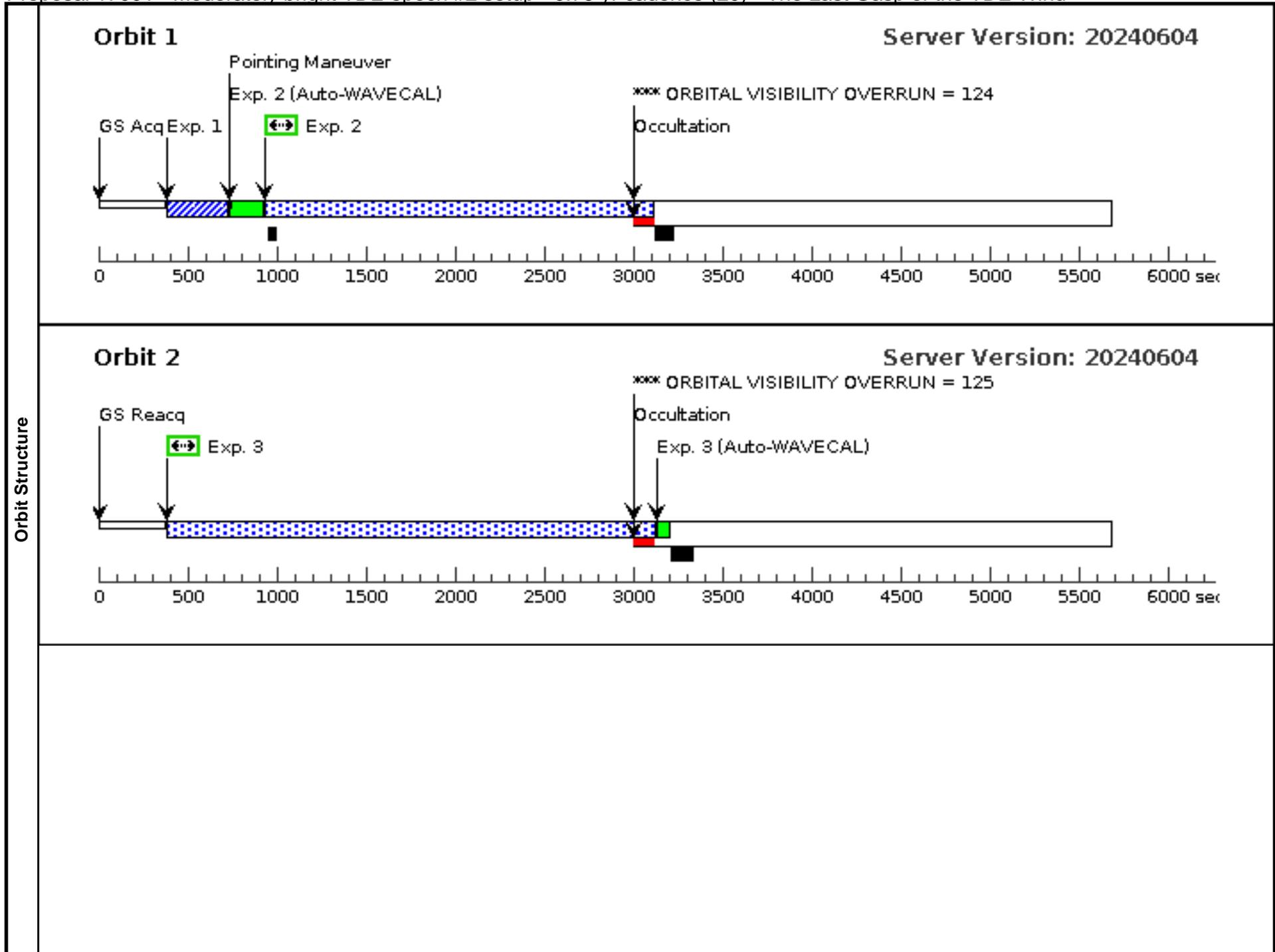


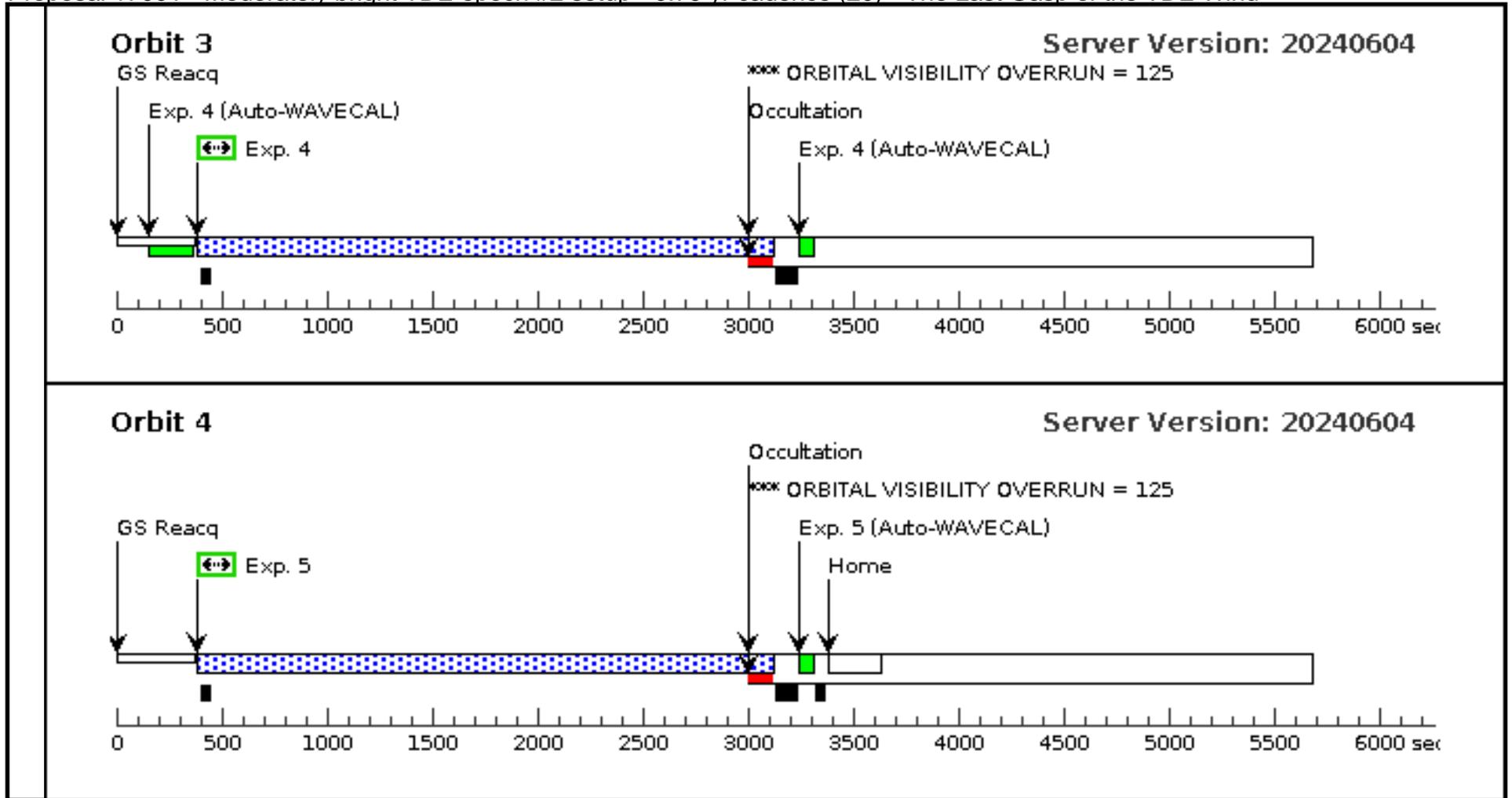


Proposal 17001 - Moderately bright TDE epoch #2 setup - 0.79 yr cadence (20) - The Last Gasp of the TDE Wind

Wed Jun 12 14:00:49 GMT 2024

Visit	<p>Proposal 17001, Moderately bright TDE epoch #2 setup - 0.79 yr cadence (20), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: AFTER 19 BY 252 D TO 354 D; ON HOLD</p> <p><i>Comments: This observation assumes the TDE is NOT sufficiently bright for a strong filter or TIME-TAG mode.</i></p> <p><i>"Typical" TDEs for this program can expect epoch #2 after ~1 year and epoch #3 after ~2 years. The relevant "Eddington timescale" will be estimated from archival photometry of the host galaxy (or more reliable archival/published results as available) and consequent estimates of the associated black hole mass when epoch #1 is triggered, so the timing requirements may need to be refined. Depending upon the target, it may also be possible to expand the window if visibility becomes an issue. Buffer times may also need to be increased.</i></p> <p><i>On Hold Comments: Conditional on confirmation that the timing requirements are appropriate for the observed host galaxy properties or light curve decay rate. Acquisition time and timing requirements may need to be revised.</i></p>																					
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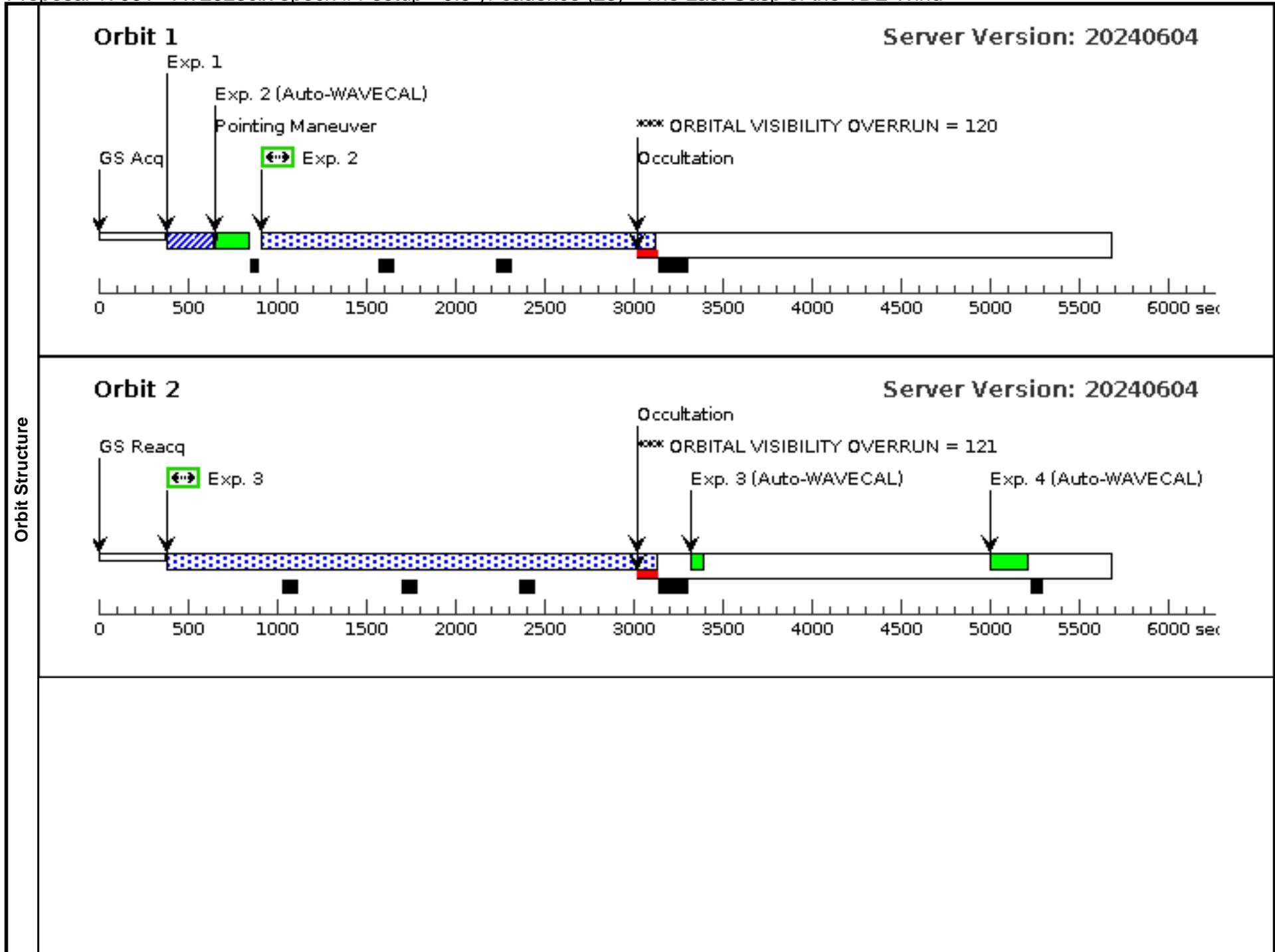


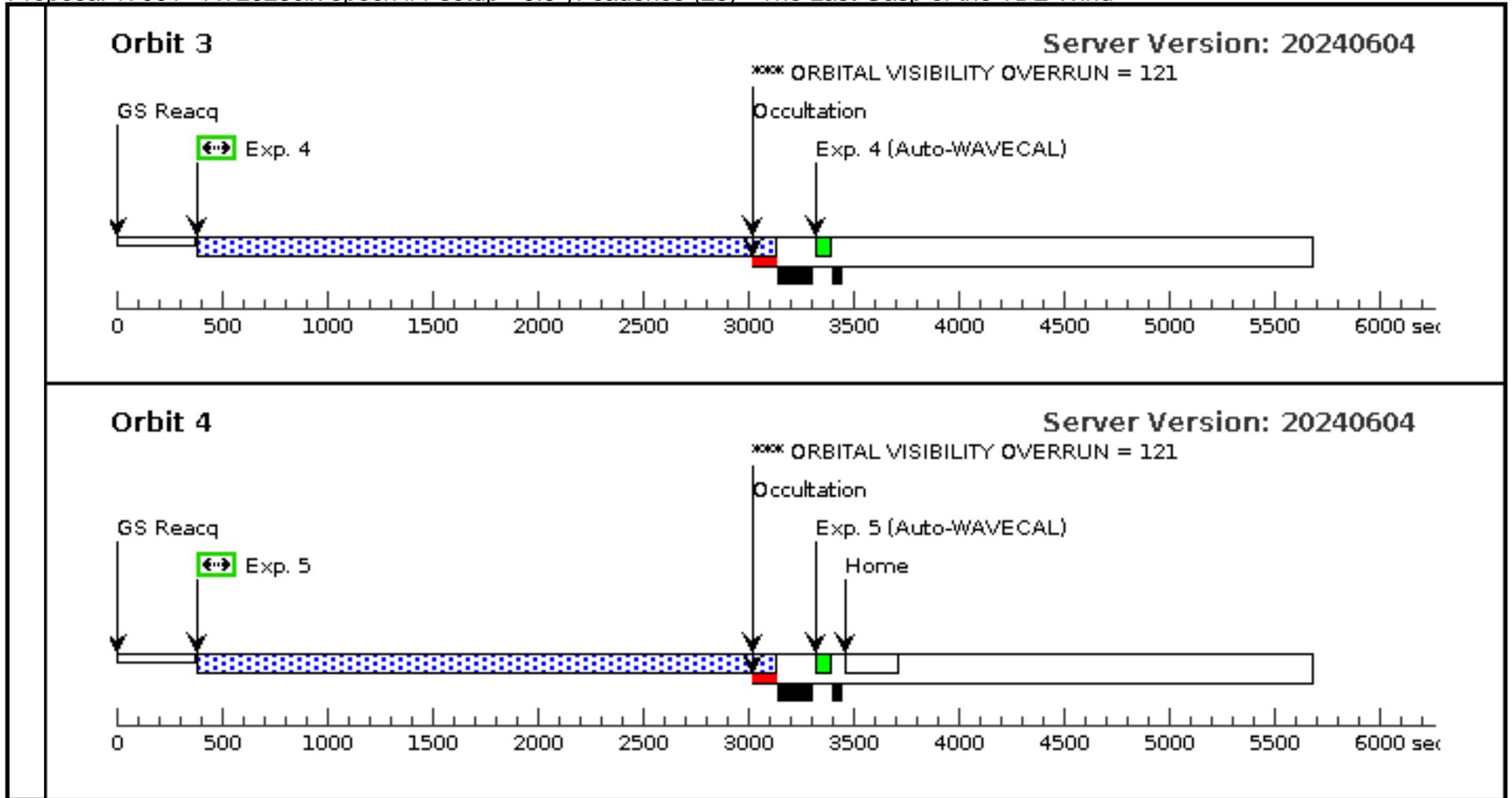


Proposal 17001 - AT2023clx epoch #1 setup - 0.9 yr cadence (23) - The Last Gasp of the TDE Wind

Wed Jun 12 14:00:49 GMT 2024

Visit	<p>Proposal 17001, AT2023clx epoch #1 setup - 0.9 yr cadence (23), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: BETWEEN 06-MAR-2023:00:00:00 AND 23-APR-2023:00:00:00; ON HOLD ; TOO RESPONSE TIME 40.0D</p> <p>Comments: This visit will use TIME-TAG mode.</p> <p>It is followed by visit (24) for epoch #2</p> <p>On Hold Comments: AT2023clx (https://www.wis-tns.org/object/2023clx) is ideal for this program. It has an optical (ZTF) trigger, nuclear location, probable TDE emission lines, and Swift UV detection.</p> <p>From the SED we estimate the black hole mass to be 1.3e6 solar masses, so we expect the Eddington timescale to be ~684 days, so we will sample UV spectroscopy 3x over that period. A major constraint is orbital visibility, which is acceptable for epochs #1 and #2. Epoch #3 is anticipated to be too far ahead for APT to currently plan.</p>																																																																
	<p>(AT2023clx epoch #1 setup - 0.9 yr cadence (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(AT2023clx epoch #1 setup - 0.9 yr cadence (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(AT2023clx epoch #1 setup - 0.9 yr cadence (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(AT2023clx epoch #1 setup - 0.9 yr cadence (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>																																																																
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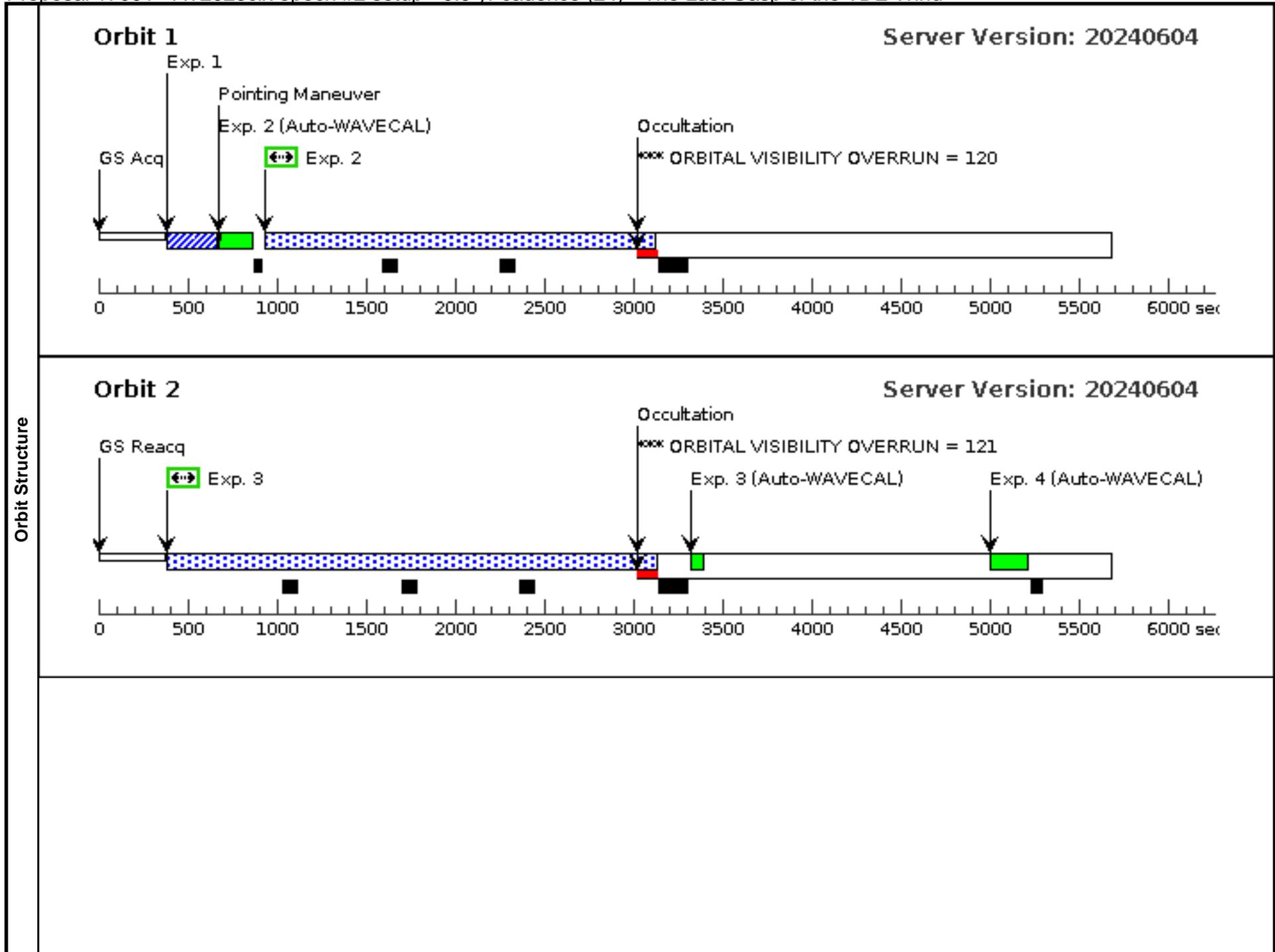


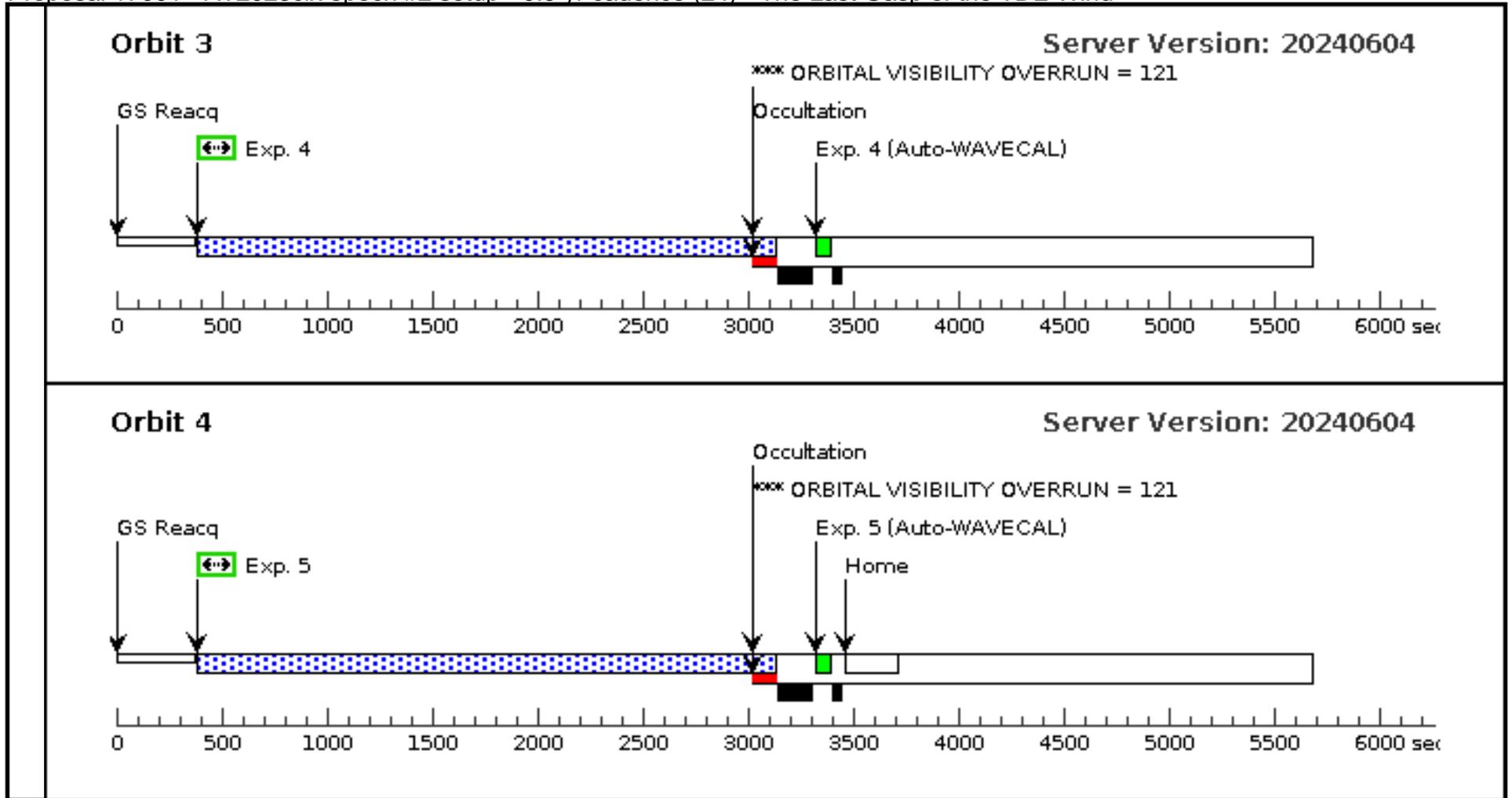


Proposal 17001 - AT2023clx epoch #2 setup - 0.9 yr cadence (24) - The Last Gasp of the TDE Wind

Wed Jun 12 14:00:49 GMT 2024

Visit	<p>Proposal 17001, AT2023clx epoch #2 setup - 0.9 yr cadence (24), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: BETWEEN 25-JUN-2023:00:00:00 AND 18-JUL-2023:00:00:00; ON HOLD</p> <p>Comments: This visit will use TIME-TAG mode.</p> <p>"Typical" TDEs for this program can expect epoch #2 after ~1 year and epoch #3 after ~2 years. The relevant "Eddington timescale" (Lodato & Rossi 2011). Based on the SED we would estimate this to be ~684 days, over which we would observe the target 3 times. We may need to be flexible here due to limited observing windows. We are expanding the program for this target to include 5 epochs total (using leftover orbits from program changes).</p> <p>On Hold Comments: Epoch #2 in a sequence triggered by TOO (23)</p>																																																																
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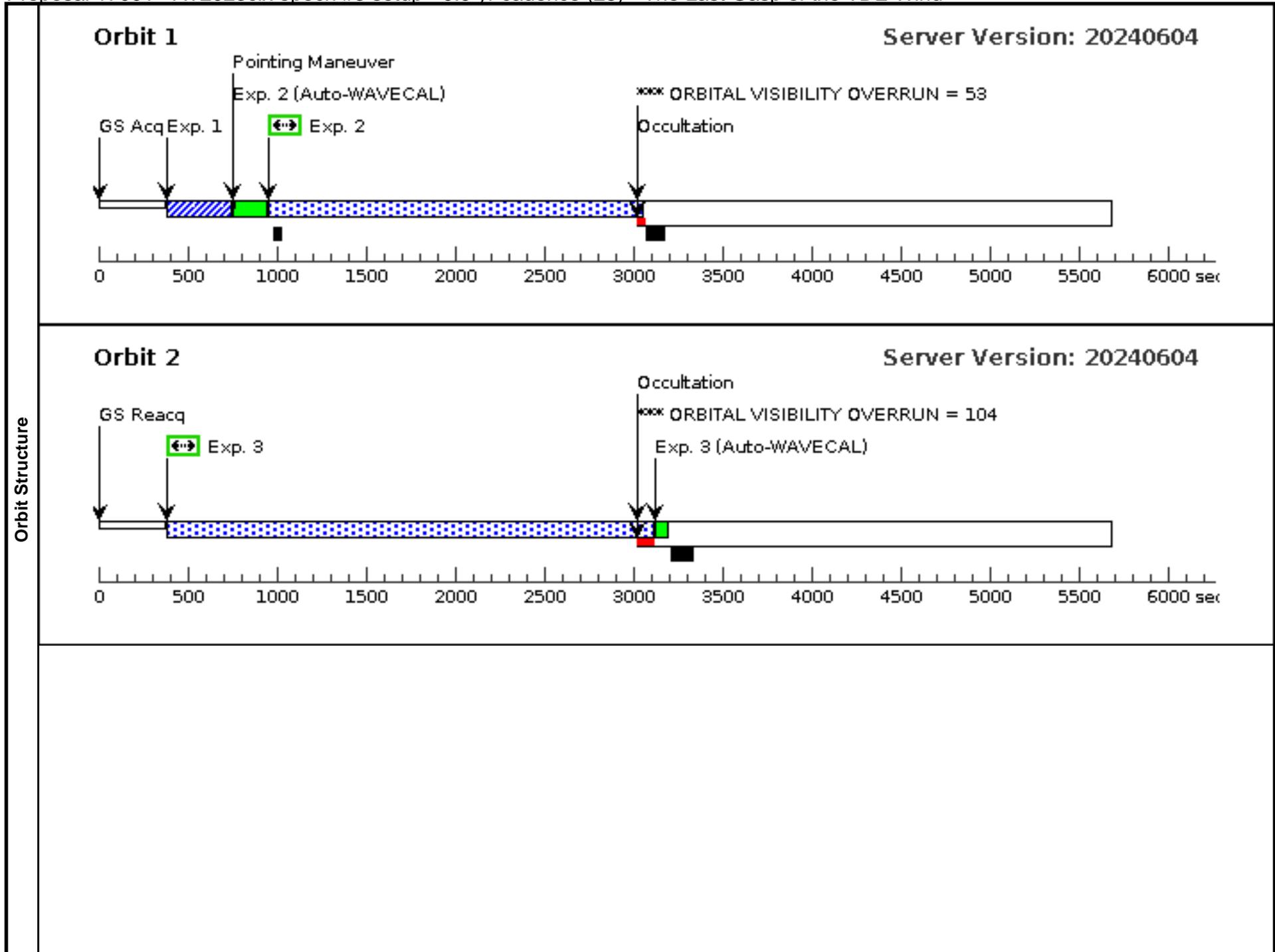


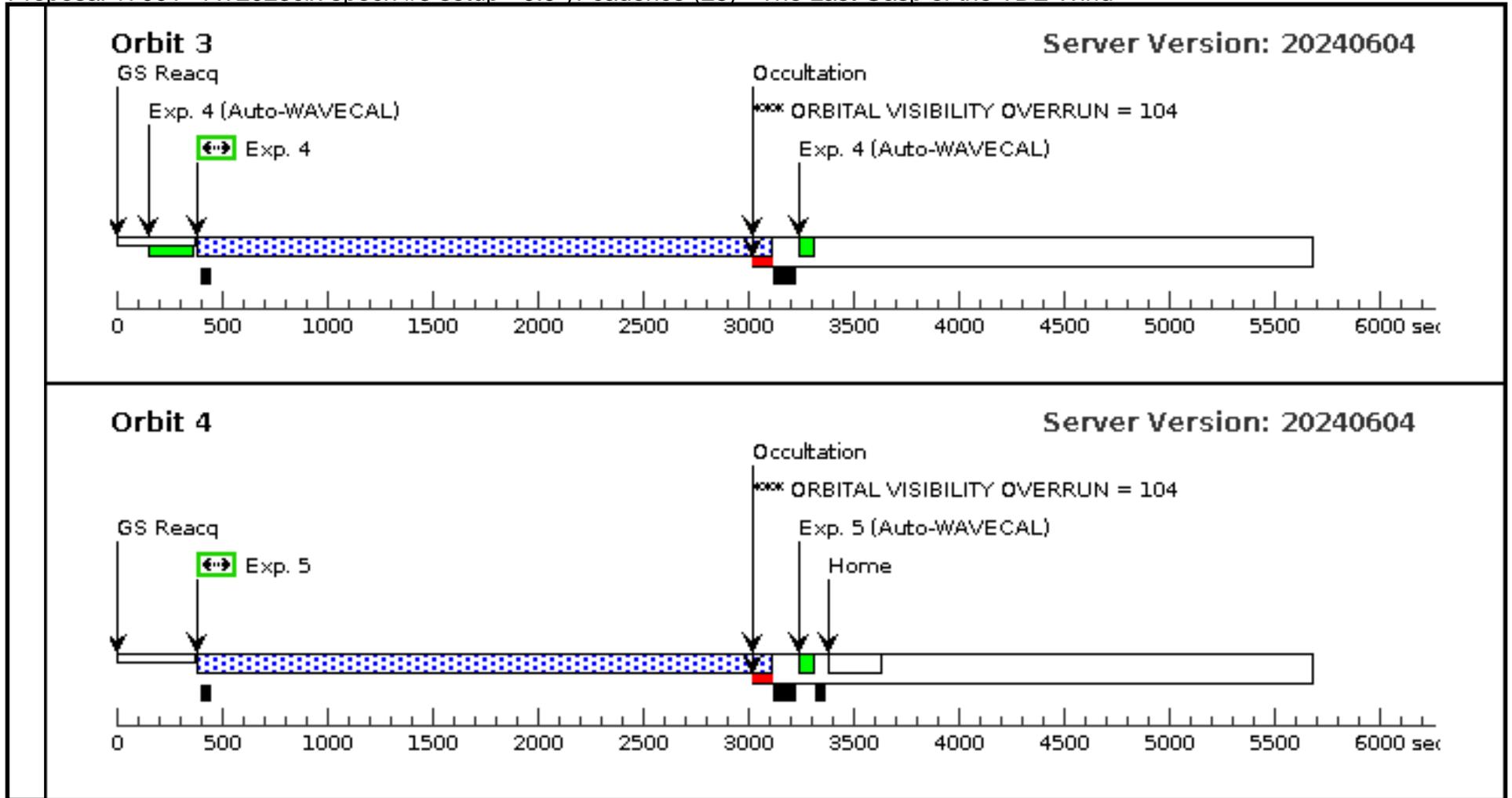


Proposal 17001 - AT2023clx epoch #3 setup - 0.9 yr cadence (25) - The Last Gasp of the TDE Wind

Wed Jun 12 14:00:49 GMT 2024

Visit	<p>Proposal 17001, AT2023clx epoch #3 setup - 0.9 yr cadence (25), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: BETWEEN 19-NOV-2023:00:00:00 AND 27-JAN-2024:00:00:00; ON HOLD</p> <p>Comments: This visit will use TIME-TAG mode.</p> <p>"Typical" TDEs for this program can expect epoch #2 after ~1 year and epoch #3 after ~2 years. The relevant "Eddington timescale" (Lodato & Rossi 2011). Based on the SED we would estimate this to be ~684 days, over which we would observe the target 3 times. We may need to be flexible here due to limited observing windows. We are expanding the program for this target to include 5 epochs total (using leftover orbits from program changes).</p> <p>On Hold Comments: Epoch #3 in a sequence triggered by TOO (23)</p>																																																																
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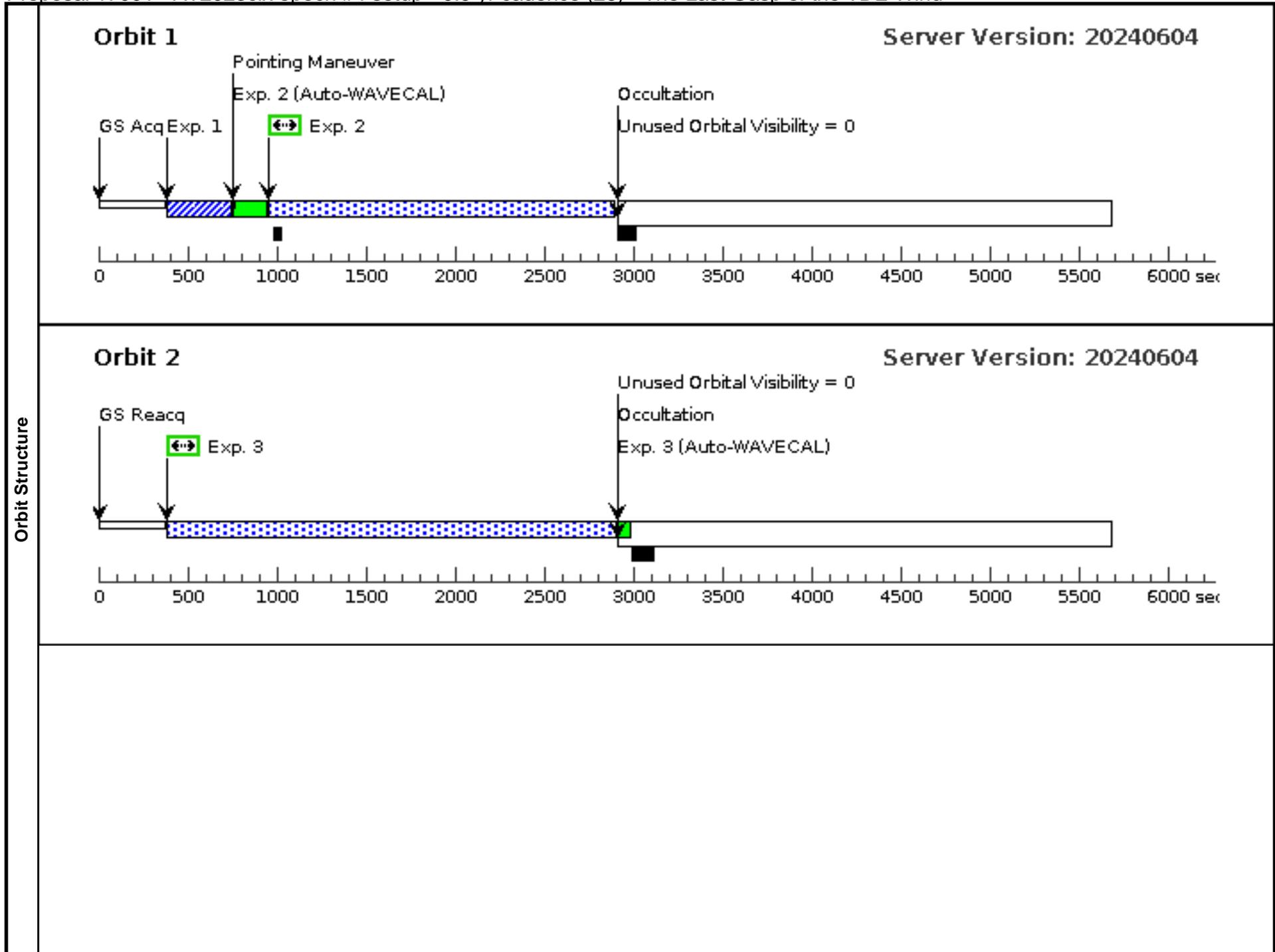


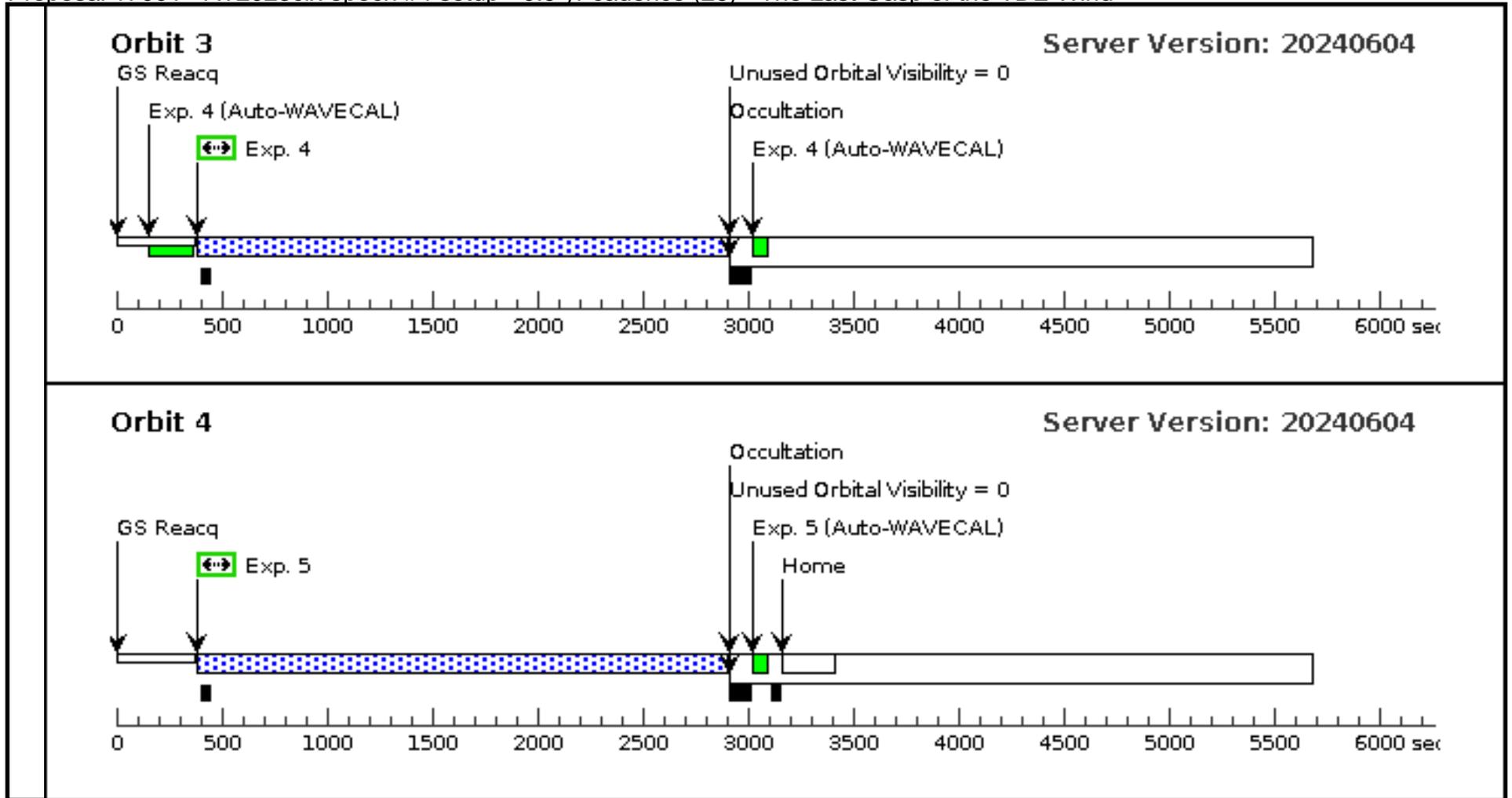


Proposal 17001 - AT2023clx epoch #4 setup - 0.9 yr cadence (26) - The Last Gasp of the TDE Wind

Wed Jun 12 14:00:49 GMT 2024

Visit	<p>Proposal 17001, AT2023clx epoch #4 setup - 0.9 yr cadence (26), implementation</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: SCHED 100%; BETWEEN 12-MAY-2024:00:00:00 AND 29-JUN-2024:00:00:00; ON HOLD</p> <p>Comments: This visit will use TIME-TAG mode.</p> <p>"Typical" TDEs for this program can expect epoch #2 after ~1 year and epoch #3 after ~2 years. The relevant "Eddington timescale" (Lodato & Rossi 2011). Based on the SED we would estimate this to be ~684 days, over which we would observe the target 3 times. We may need to be flexible here due to limited observing windows. We are expanding the program for this target to include 5 epochs total (using leftover orbits from program changes).</p> <p>On Hold Comments: Epoch #4 in a sequence triggered by TOO (23)</p>									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(13)	AT2023CLX	RA: 11 40 9.4440 (175.0393500d) Alt Name1: ASASSN-23BD Dec: +15 19 39.04 (15.32751d) Equinox: J2000	Redshift: 0.011070	V=16	Reference Frame: ICRS				
<p>Comments: Target is expected to be the nucleus, but coordinates from https://www.wis-ns.org/object/2023clx are ~0.6 arcsec offset from the SDSS nucleus.</p> <p>Category=GALAXY</p> <p>Description=[ACCRETION DISK, NUCLEUS, WIND]</p>										
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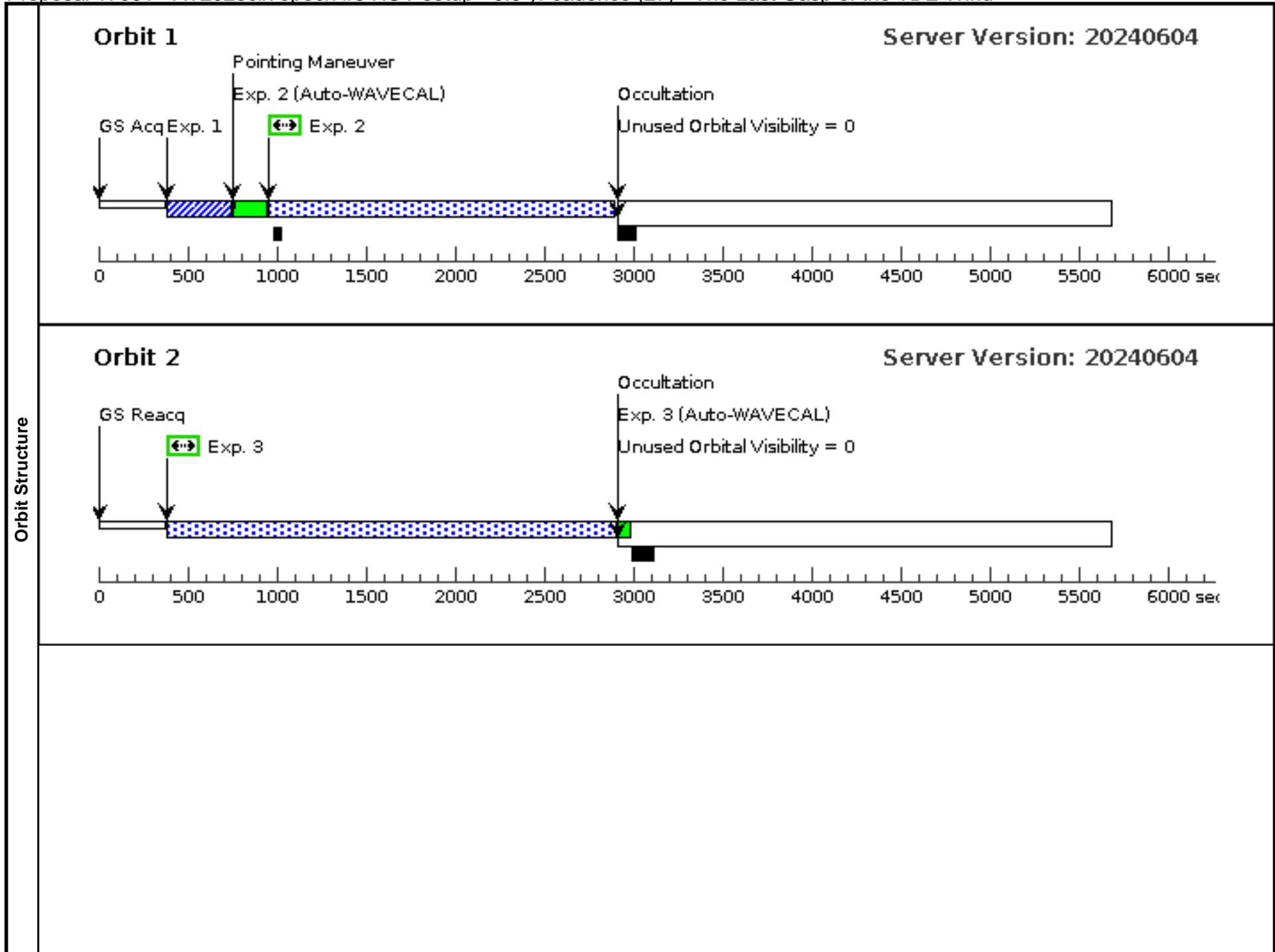


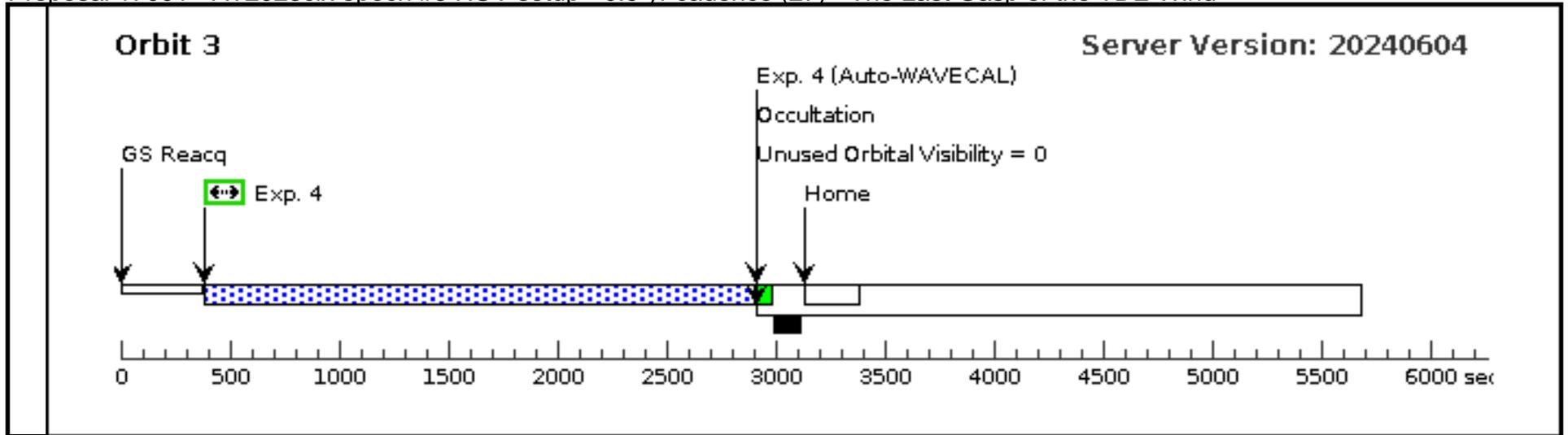


Proposal 17001 - AT2023clx epoch #5 NUV setup - 0.9 yr cadence (27) - The Last Gasp of the TDE Wind

Wed Jun 12 14:00:49 GMT 2024

Visit	<p>Proposal 17001, AT2023clx epoch #5 NUV setup - 0.9 yr cadence (27), implementation</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD</p> <p>Special Requirements: SCHED 100%; BETWEEN 01-DEC-2024:00:00:00 AND 01-MAY-2025:00:00:00; GROUP 27,28 WITHIN 5D; ON HOLD</p> <p>Comments: This visit will use TIME-TAG mode.</p> <p>"Typical" TDEs for this program can expect epoch #2 after ~1 year and epoch #3 after ~2 years. The relevant "Eddington timescale" (Lodato & Rossi 2011). Based on the SED we would estimate this to be ~684 days, over which we would observe the target 3 times. We may need to be flexible here due to limited observing windows. We are expanding the program for this target to include 5 epochs total (using leftover orbits from program changes).</p> <p>On Hold Comments: Epoch 5 in a sequence triggered by TOO (23)</p> <p>Not currently schedulable (2023/03/05) given APT's range only extends to June 2024. We hope to pick a window in early 2025. Orbits will need to come from the cycle 31 allotment.</p>																																																																																																			
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Proposal 17001 - AT2023clx epoch #5 FUV setup - 0.9 yr cadence (28) - The Last Gasp of the TDE Wind

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