



16190 - Ultraviolet Spectroscopy of Extreme Standard Candles

Cycle: 28, 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	(7) SN2022IDX-91T	STIS/CCD STIS/NUV-MAMA	2	03-Oct-2022 11:01:01.0	yes
02	(7) SN2022IDX-91T	STIS/CCD STIS/NUV-MAMA	2	03-Oct-2022 11:01:03.0	yes

Proposal 16190 (STScI Edit Number: 2, Created: Monday, October 3, 2022 at 10:01:38 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>
03	(7) SN2022IDX-91T	STIS/CCD STIS/NUV-MAMA	2	03-Oct-2022 11:01:04.0	yes
04	(7) SN2022IDX-91T	STIS/CCD STIS/NUV-MAMA	2	03-Oct-2022 11:01:05.0	yes
05	(7) SN2022IDX-91T	STIS/CCD STIS/NUV-MAMA	2	03-Oct-2022 11:01:06.0	yes
06	(7) SN2022IDX-91T	STIS/CCD STIS/NUV-MAMA	2	03-Oct-2022 11:01:07.0	yes
07	(6) SN2022IHZ	STIS/CCD STIS/NUV-MAMA	3	03-Oct-2022 11:01:08.0	yes
25	(9) SN2022VQZ	STIS/CCD STIS/NUV-MAMA	3	03-Oct-2022 11:01:09.0	yes
08	(6) SN2022IHZ	STIS/CCD STIS/NUV-MAMA	3	03-Oct-2022 11:01:11.0	yes
26	(9) SN2022VQZ	STIS/CCD STIS/NUV-MAMA	3	03-Oct-2022 11:01:12.0	yes
09	(6) SN2022IHZ	STIS/CCD STIS/NUV-MAMA	3	03-Oct-2022 11:01:14.0	yes
27	(9) SN2022VQZ	STIS/CCD STIS/NUV-MAMA	3	03-Oct-2022 11:01:15.0	yes
18	(6) SN2022IHZ	STIS/CCD STIS/NUV-MAMA	3	03-Oct-2022 11:01:16.0	yes
28	(9) SN2022VQZ	STIS/CCD STIS/NUV-MAMA	3	03-Oct-2022 11:01:17.0	yes
10	(6) SN2022IHZ	STIS/CCD STIS/NUV-MAMA	3	03-Oct-2022 11:01:19.0	yes
29	(9) SN2022VQZ	STIS/CCD STIS/NUV-MAMA	3	03-Oct-2022 11:01:20.0	yes

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<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>
11	(6) SN2022IHZ	STIS/CCD STIS/NUV-MAMA	4	03-Oct-2022 11:01:21.0	yes
30	(9) SN2022VQZ	STIS/CCD STIS/NUV-MAMA	4	03-Oct-2022 11:01:23.0	yes
12	(5) SN2022HRS-HV	STIS/CCD STIS/NUV-MAMA	4	03-Oct-2022 11:01:25.0	yes
13	(5) SN2022HRS-HV	STIS/CCD STIS/NUV-MAMA	3	03-Oct-2022 11:01:26.0	yes
14	(5) SN2022HRS-HV	STIS/CCD STIS/NUV-MAMA	3	03-Oct-2022 11:01:28.0	yes
15	(5) SN2022HRS-HV	STIS/CCD STIS/NUV-MAMA	3	03-Oct-2022 11:01:29.0	yes
16	(5) SN2022HRS-HV	STIS/CCD STIS/NUV-MAMA	3	03-Oct-2022 11:01:30.0	yes
17	(5) SN2022HRS-HV	STIS/CCD STIS/NUV-MAMA	3	03-Oct-2022 11:01:31.0	yes
19	(4) RARE-UVBLUE-SN-IA	STIS/CCD STIS/NUV-MAMA	2	03-Oct-2022 11:01:33.0	yes
20	(4) RARE-UVBLUE-SN-IA	STIS/CCD STIS/NUV-MAMA	2	03-Oct-2022 11:01:34.0	yes
21	(4) RARE-UVBLUE-SN-IA	STIS/CCD STIS/NUV-MAMA	2	03-Oct-2022 11:01:35.0	yes
22	(4) RARE-UVBLUE-SN-IA	STIS/CCD STIS/NUV-MAMA	2	03-Oct-2022 11:01:36.0	yes
23	(4) RARE-UVBLUE-SN-IA	STIS/CCD STIS/NUV-MAMA	2	03-Oct-2022 11:01:37.0	yes
24	(4) RARE-UVBLUE-SN-IA	STIS/CCD STIS/NUV-MAMA	2	03-Oct-2022 11:01:38.0	yes

81 Total Orbits Used

ABSTRACT

Despite their widespread use as standard candles to measure cosmological distances, Type Ia supernovae are not a homogeneous group of explosions. There are variations in optical light curve shape and ejecta velocity, for example. The sensitivity of the UV to differences in progenitor systems, explosion physics, and environmental conditions makes it a vital regime to determine the physical cause and magnitude of the differences and their effect on the optical bands currently used for cosmological measurements. The goal of understanding the range of progenitor and explosion properties of SNe Ia can be advanced by obtaining UV spectra covering the range of Type Ia supernova properties. The proposed observations will sparsely sample the multi-dimensional parameter spaces of the observed and physical differences between various classes. The goal is to bring order to these disparate objects by determining which are actually physically related and by what parameters. Combined with previous HST observations, these observations will form the definitive observational sample for building theoretical models, constraining progenitor environments, and comparing with high-redshift supernovae from past and future observatories including LSST and WFIRST.

OBSERVING DESCRIPTION

This is a ToO proposal to obtain multi-epoch ultraviolet spectroscopy of one each of four extreme subtypes of supernovae Ia.

To follow the UV spectral evolution and facilitate abundance tomography, we will observe each of the targeted SNe Ia at six epochs before and near maximum light. Since SNe reach their peak brightness about 18 days after explosion, this will require a disruptive ToO.

Many very nearby SNe are discovered and characterized at least a week before peak brightness, sometimes within days of explosion.

Early observations are more sensitive to the outermost layers of the SN ejecta and exhibit larger variations in the mid-UV flux, so we will work with our program coordinator to begin HST observations as soon as is reasonable. We do not require an

ultra-rapid ToO. Ideally we would trigger and begin observing sooner than ten days before maximum light in the optical (several days prior to the minimum in the UV-optical colors for normal SNe Ia), with observations occurring 2, 4, 6, 10, and 14 days later. The exact cadence will be chosen

at the time of triggering based on the estimated age of the SN and the time until HST can first observe it.

To measure the flux through the mid-UV we will use STIS with the MAMA detector and the G230L filter plus the 0.2\arcsec x50\arcsec slit. The MAMA detector is necessary because of scattered light on the STIS CCD for red objects.

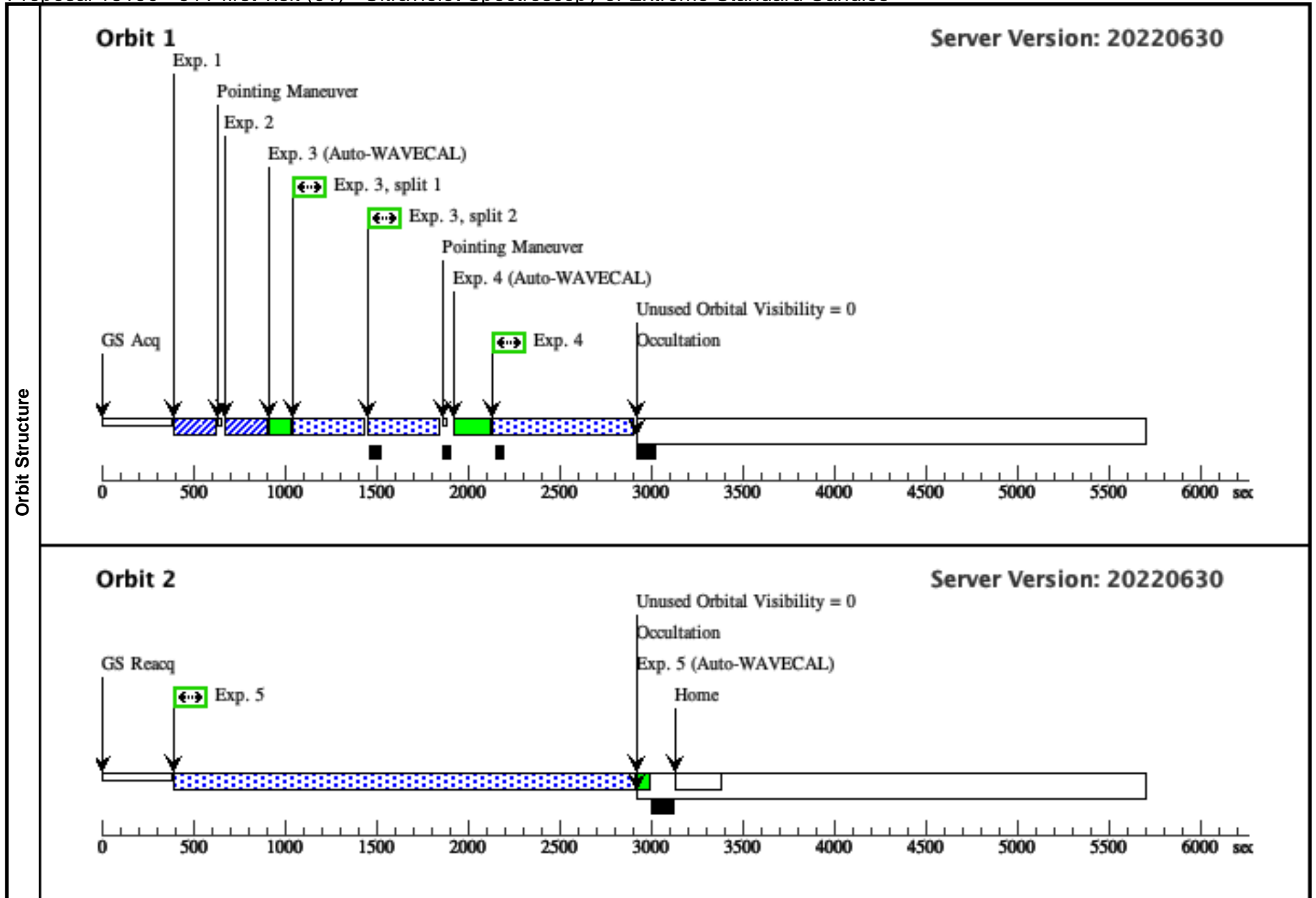
Swift/UVOT observations obtained prior to triggering will be used to ensure the safety of the field for observations with STIS/MAMA.

We will additionally obtain one near-UV/optical spectrum at each epoch using the G430L grism to measure the NUV spectrum and ensure overlap of our spectra with the optical where the vast majority of SN characterization is performed. The NUV-region just shortward of the atmospheric cutoff is especially crucial to identifying the NUV differences.

Proposal 16190 - 91T first visit (01) - Ultraviolet Spectroscopy of Extreme Standard Candles

Mon Oct 03 15:01:38 GMT 2022

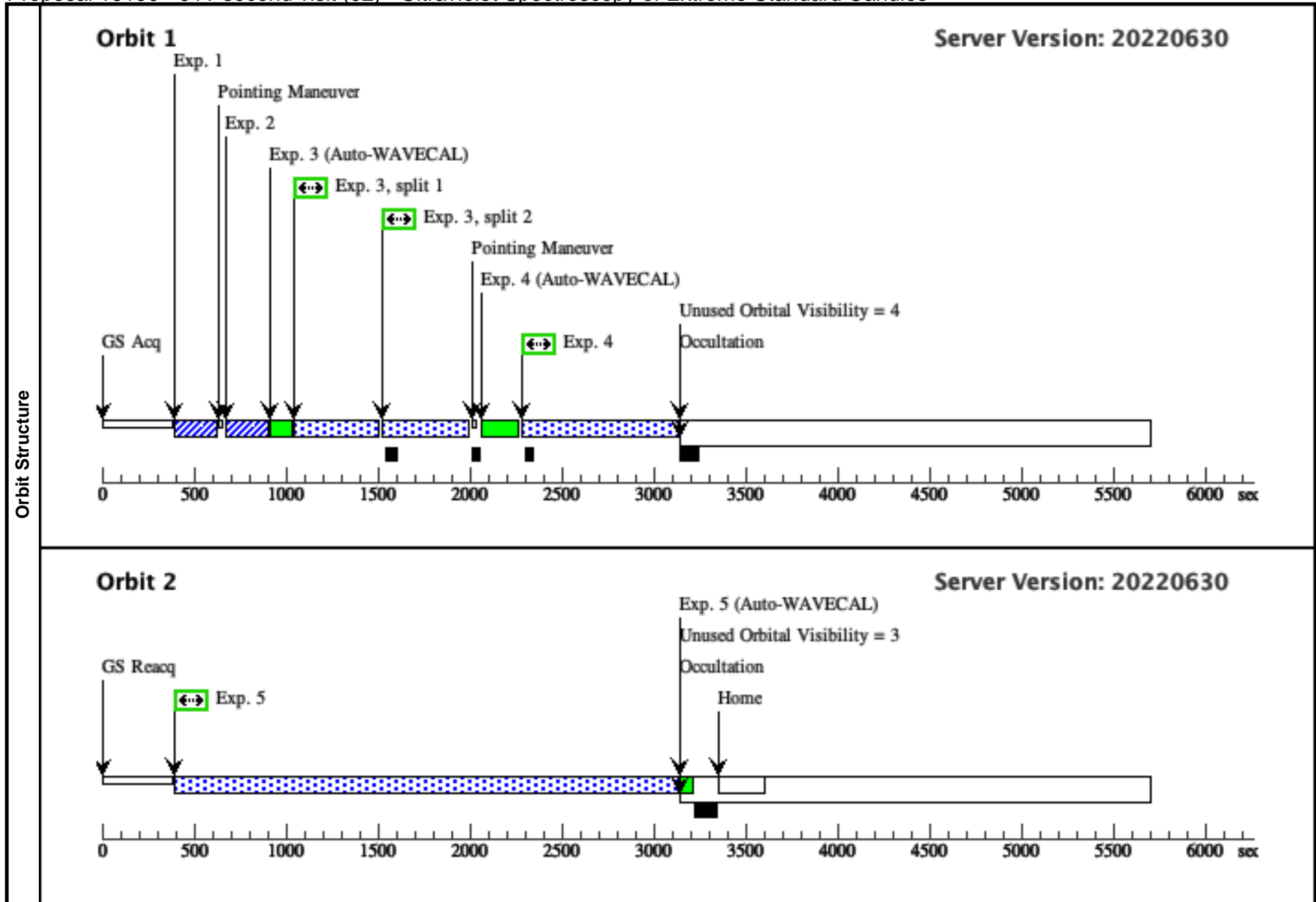
Visit	Proposal 16190, 91T first visit (01), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: SCHED 100%; BEFORE 06-MAY-2022:00:00:00; ON HOLD ; TOO RESPONSE TIME 3.0D <i>On Hold Comments: ToO trigger</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(7)	SN2022IDX-91T	RA: 12 53 12.2000 (193.3008333d) Dec: -06 23 6.74 (-6.38521d) Equinox: J2000		V=15+/-1	Reference Frame: ICRS			
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	acq (1452518)	(7) SN2022IDX-91T	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	acq/peak (1452529)	(7) SN2022IDX-91T	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				1 Secs (1 Secs) [==>]	[1]
	3	nuvopt-stis (1003290)	(7) SN2022IDX-91T	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (718 Secs) [==>359.0 Secs (Split 1)] [==>359.0 Secs (Split 2)]	[1]
	4	nuv-mama (1003282)	(7) SN2022IDX-91T	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (759 Secs) [==>759.0 Secs]	[1]
	5	nuv-mama2 (1003282)	(7) SN2022IDX-91T	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2502 Secs) [==>2502.0 Secs]	[2]



Proposal 16190 - 91T second visit (02) - Ultraviolet Spectroscopy of Extreme Standard Candles

Mon Oct 03 15:01:39 GMT 2022

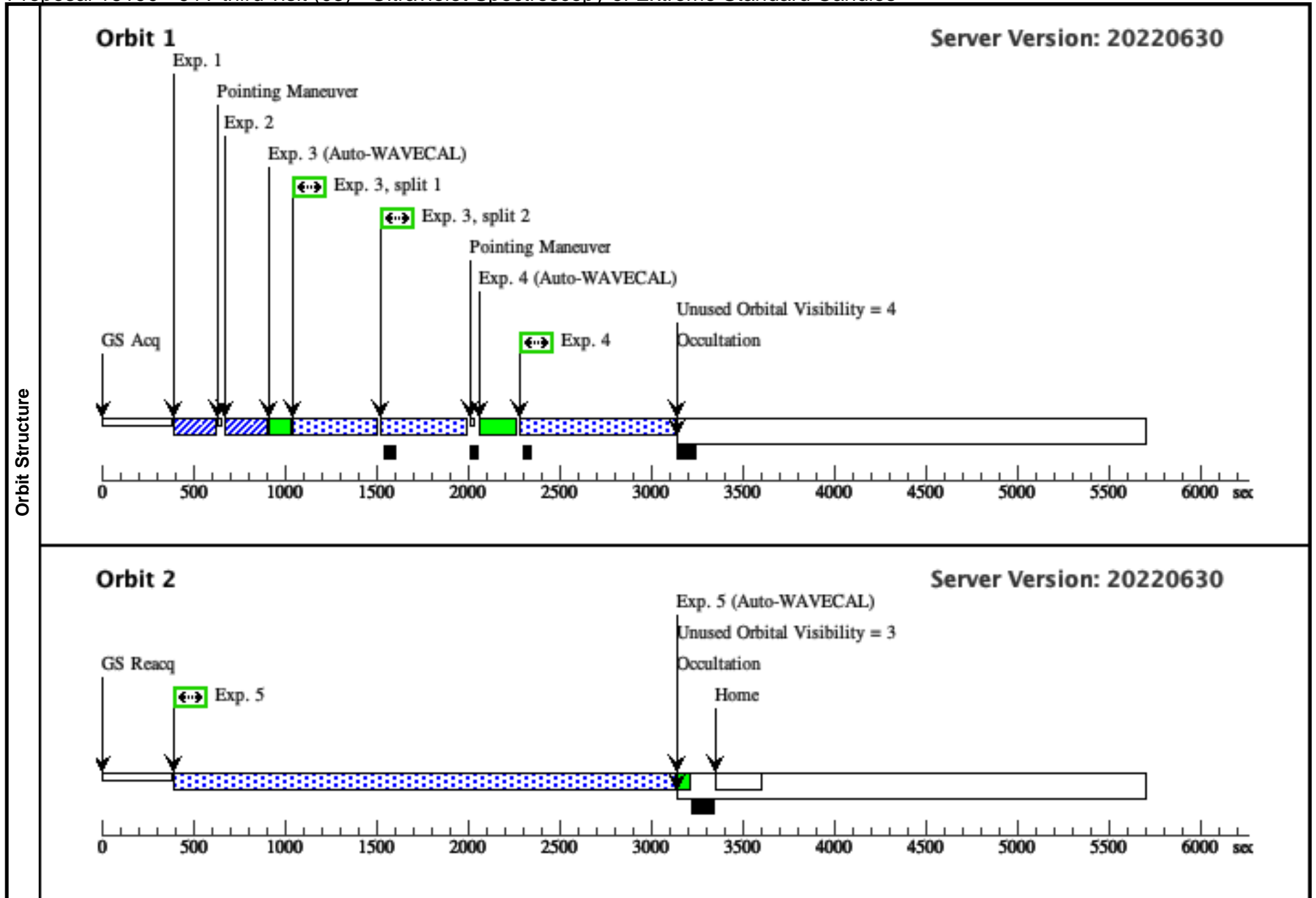
Visit	Proposal 16190, 91T second visit (02), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: AFTER 01 BY 2 D TO 3 D; ON HOLD <i>On Hold Comments: ToO trigger</i>																																																																					
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Proposal 16190 - 91T third visit (03) - Ultraviolet Spectroscopy of Extreme Standard Candles

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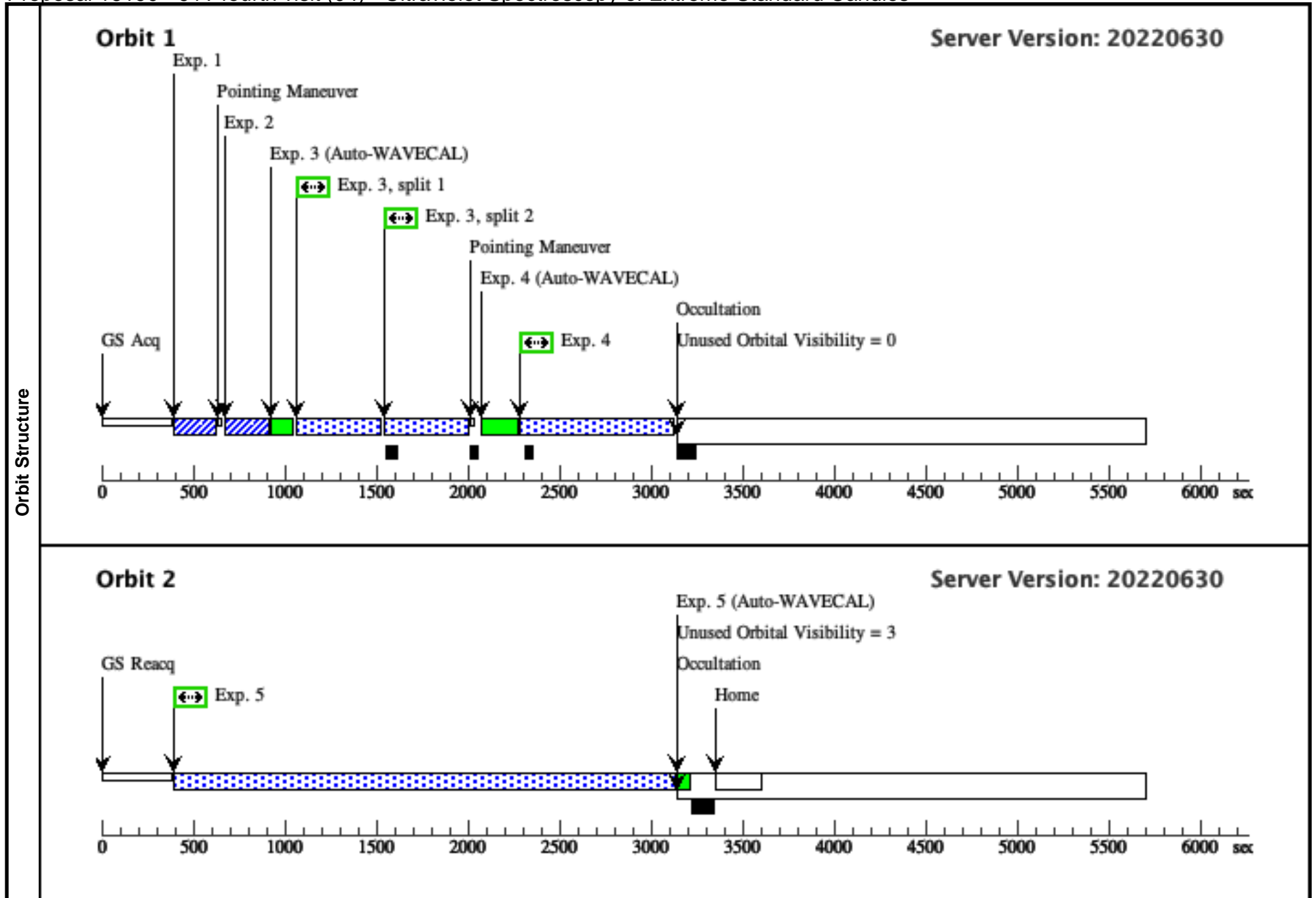
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3	nuvopt-stis (1003290)	(7) SN2022IDX-91T	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (864 Secs) [==>432.0 Secs (Split 1)] [==>432.0 Secs (Split 2)]	[1]																																																													
4	nuv-mama (1003282)	(7) SN2022IDX-91T	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (832 Secs) [==>832.0 Secs]	[1]																																																													
5	nuv-mama2 (1003282)	(7) SN2022IDX-91T	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2722 Secs) [==>2722.0 Secs]	[2]																																																													



Proposal 16190 - 91T fourth visit (04) - Ultraviolet Spectroscopy of Extreme Standard Candles

Mon Oct 03 15:01:39 GMT 2022

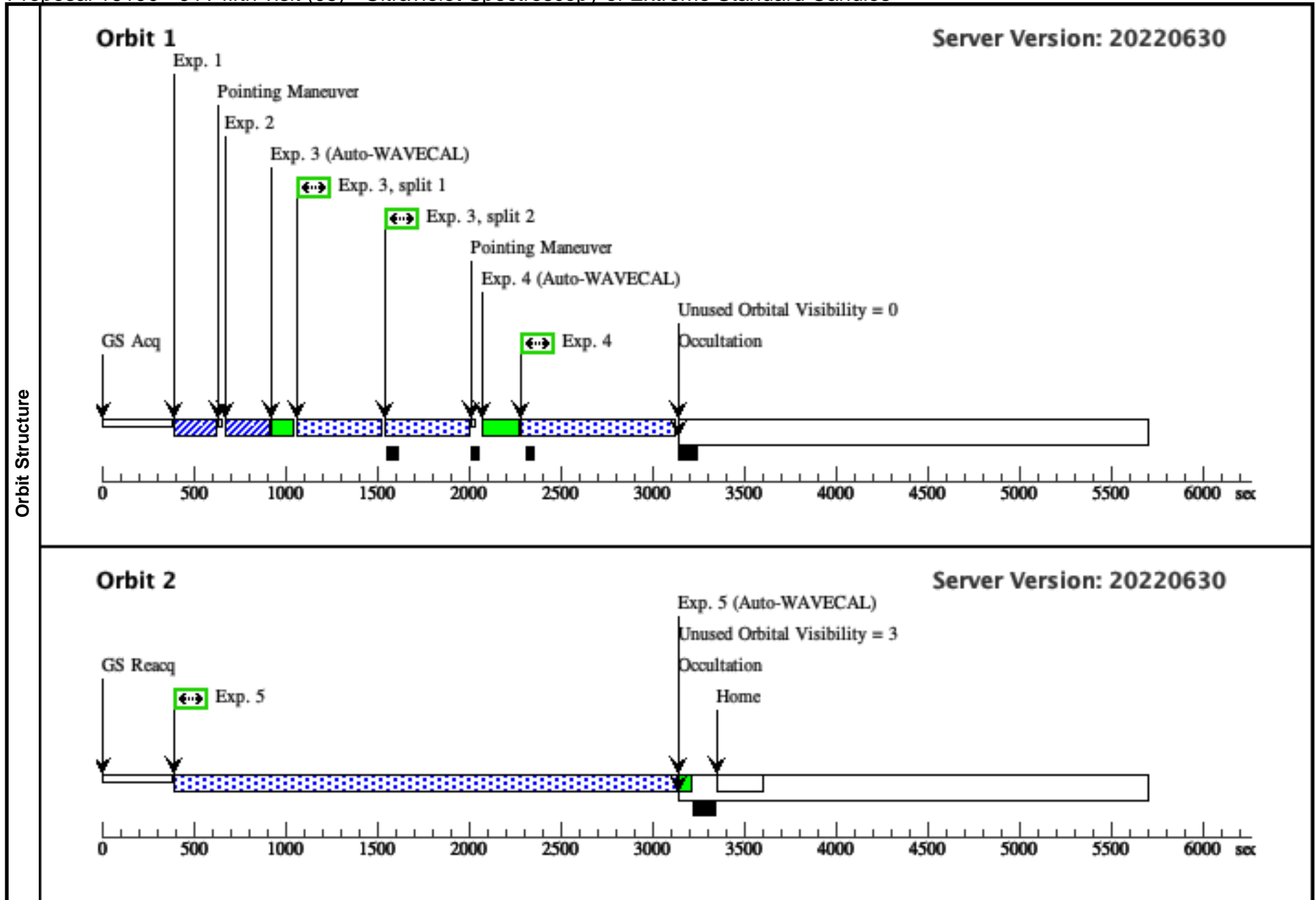
Visit	Proposal 16190, 91T fourth visit (04), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: AFTER 03 BY 3 D TO 5 D; ON HOLD <i>On Hold Comments: ToO trigger</i>																																																																					
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Proposal 16190 - 91T fifth visit (05) - Ultraviolet Spectroscopy of Extreme Standard Candles

Mon Oct 03 15:01:39 GMT 2022

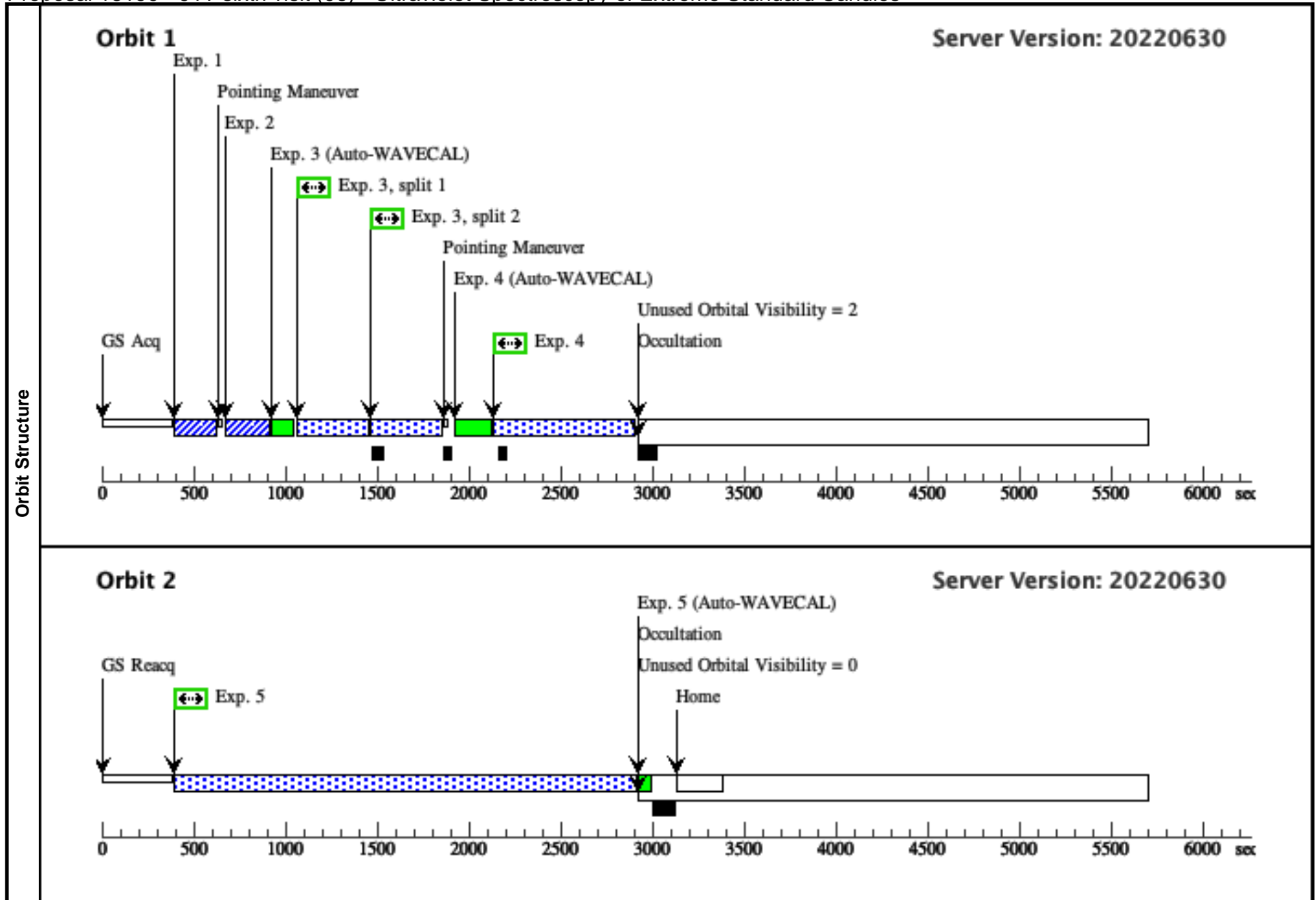
Visit	Proposal 16190, 91T fifth visit (05), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: AFTER 04 BY 3 D TO 5 D; ON HOLD <i>On Hold Comments: ToO trigger</i>																																																																					
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Proposal 16190 - 91T sixth visit (06) - Ultraviolet Spectroscopy of Extreme Standard Candles

Mon Oct 03 15:01:39 GMT 2022

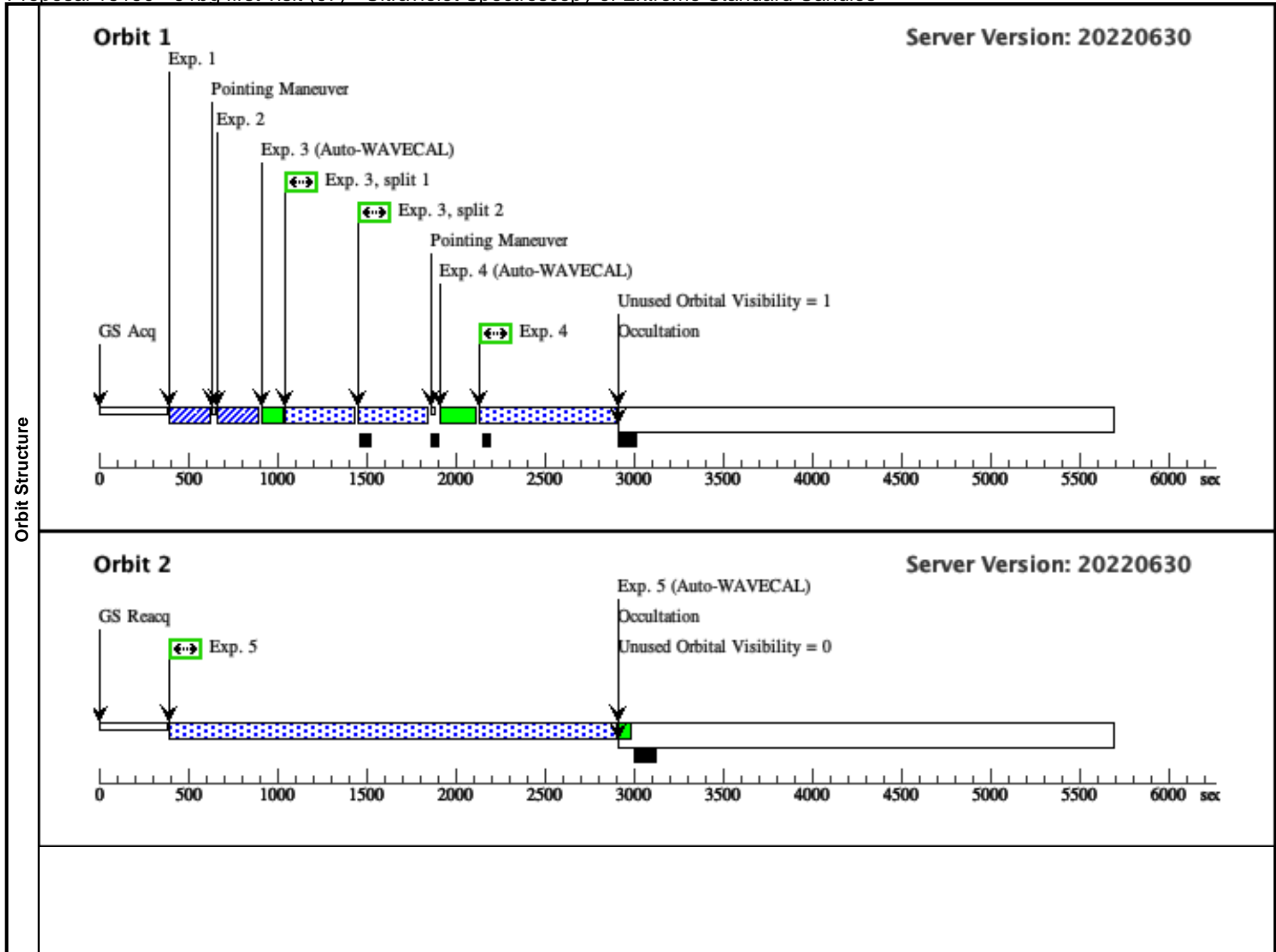
Visit	Proposal 16190, 91T sixth visit (06), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: SCHED 100%; AFTER 05 BY 4 D TO 6 D; ON HOLD <i>On Hold Comments: ToO trigger</i>																																																																					
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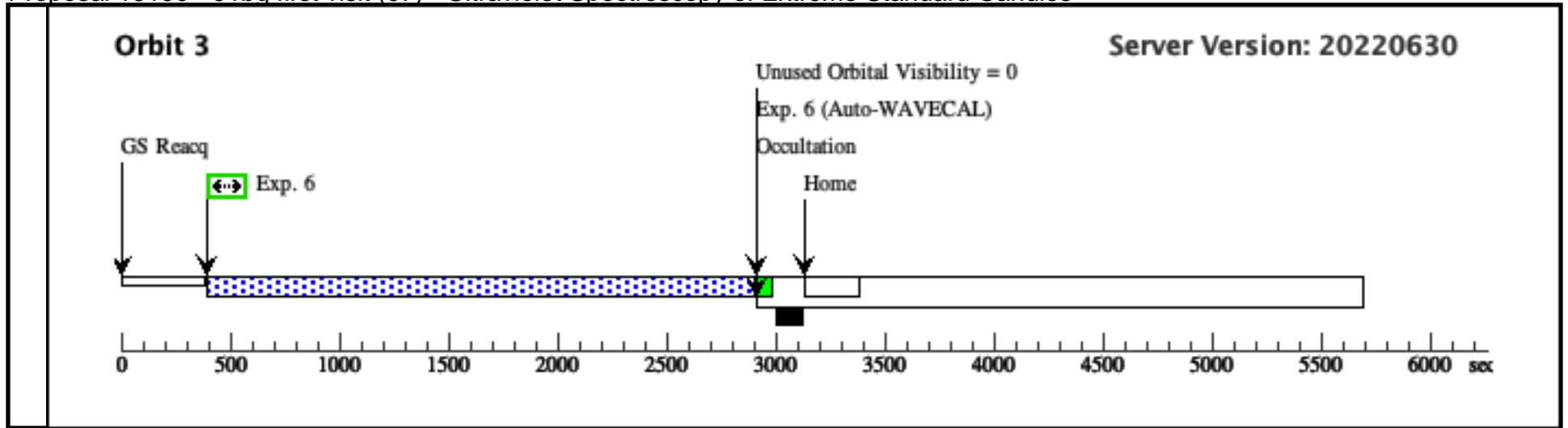


Proposal 16190 - 91bg first visit (07) - Ultraviolet Spectroscopy of Extreme Standard Candles

Mon Oct 03 15:01:39 GMT 2022

Visit	Proposal 16190, 91bg first visit (07), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: SCHED 100%; BETWEEN 30-APR-2022:00:00:00 AND 06-MAY-2022:00:00:00; ON HOLD ; TOO RESPONSE TIME 3.0D On Hold Comments: ToO trigger																					
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>SN2022IHZ</td> <td>RA: 09 42 48.2273 (145.7009471d) Dec: -03 36 25.46 (-3.60707d) Equinox: J2000</td> <td></td> <td>V=14+/-1</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> Comments: SN1991bg-like Category=EXT-STAR Description=[SUPERNOVA TYPE IA]										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(6)	SN2022IHZ	RA: 09 42 48.2273 (145.7009471d) Dec: -03 36 25.46 (-3.60707d) Equinox: J2000		V=14+/-1
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	1	acq (1003284)	(6) SN2022IHZ	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs) [==>]	[1]												
	2	acq/peak (1747363)	(6) SN2022IHZ	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				1 Secs (1 Secs) [==>]	[1]												
	3	nuvopt-stis (1003290)	(6) SN2022IHZ	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (716 Secs) [==>358.0 Secs (Split 1)] [==>358.0 Secs (Split 2)]	[1]												
	4	nuv-mama (1003282)	(6) SN2022IHZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (758 Secs) [==>758.0 Secs]	[1]												
	5	nuv-mama2 (1003282)	(6) SN2022IHZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2498 Secs) [==>2498.0 Secs]	[2]												
	6	nuv-mama3 (1003282)	(6) SN2022IHZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2498 Secs) [==>2498.0 Secs]	[3]												

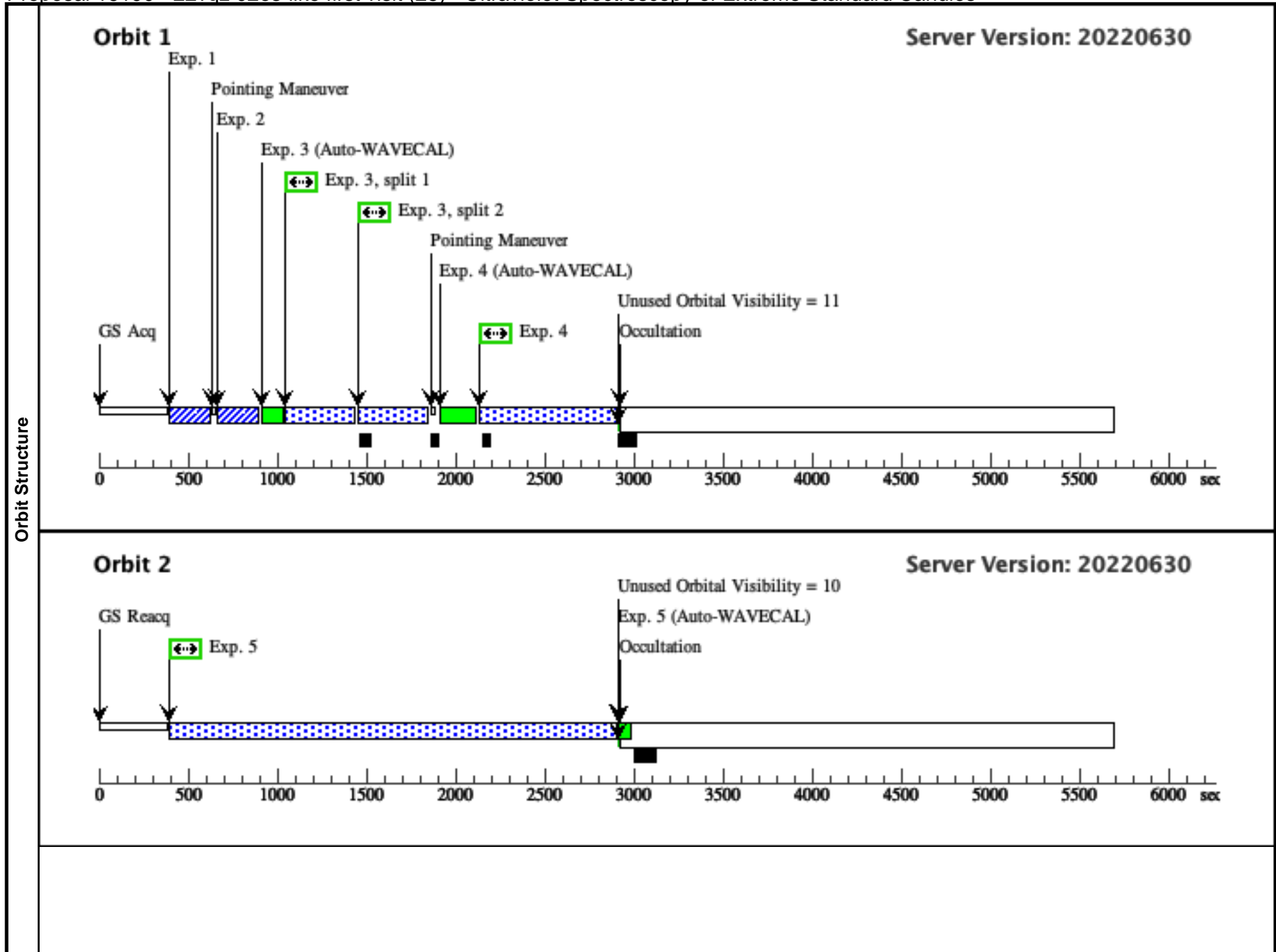


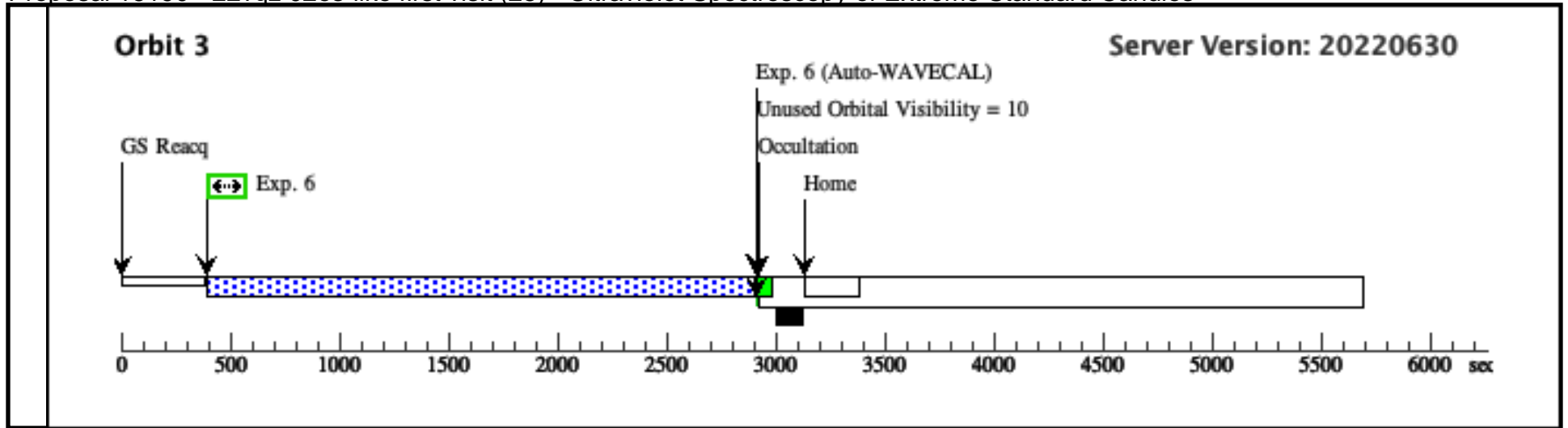


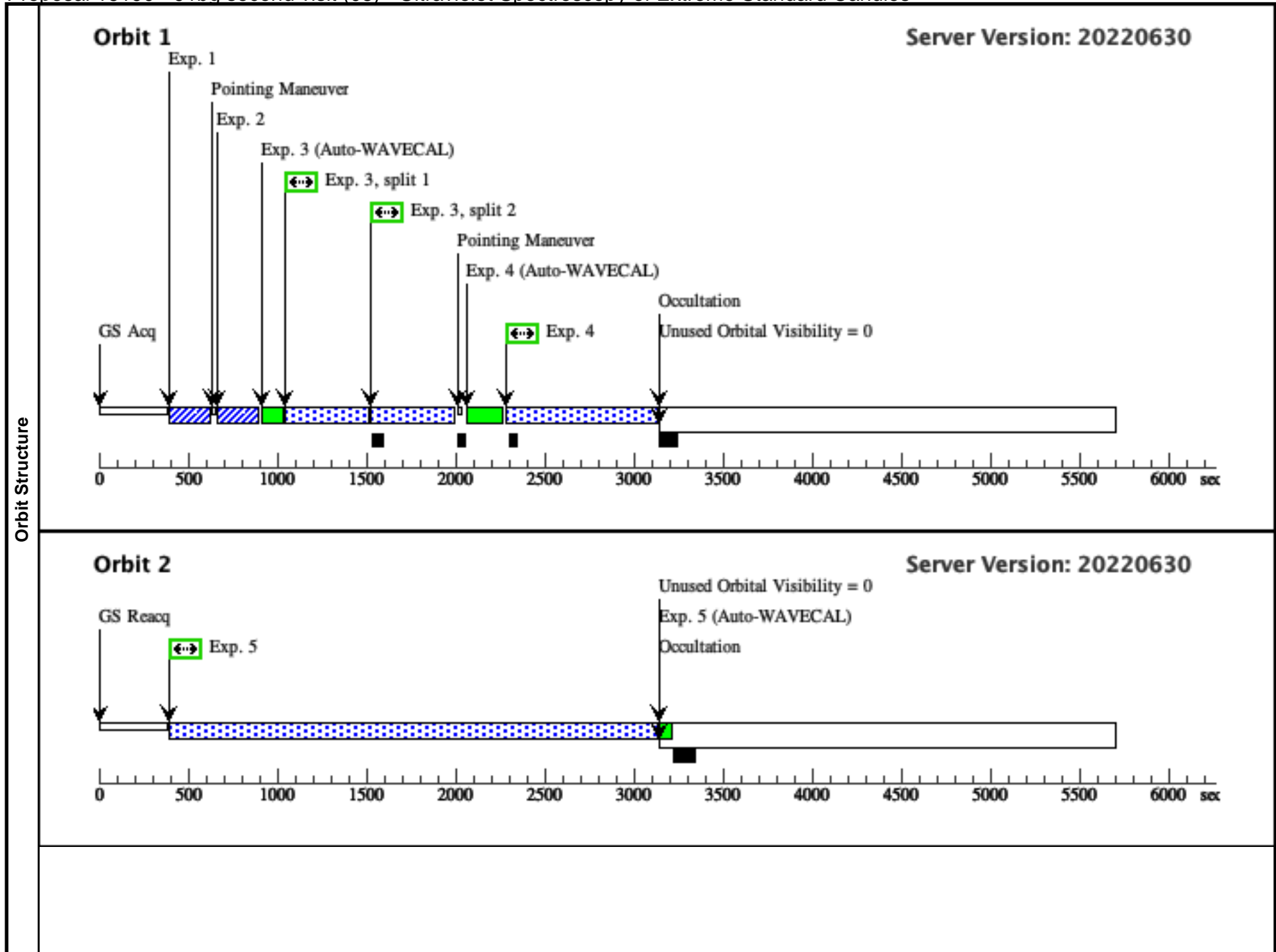
Proposal 16190 - 22vqz 02es-like first visit (25) - Ultraviolet Spectroscopy of Extreme Standard Candles

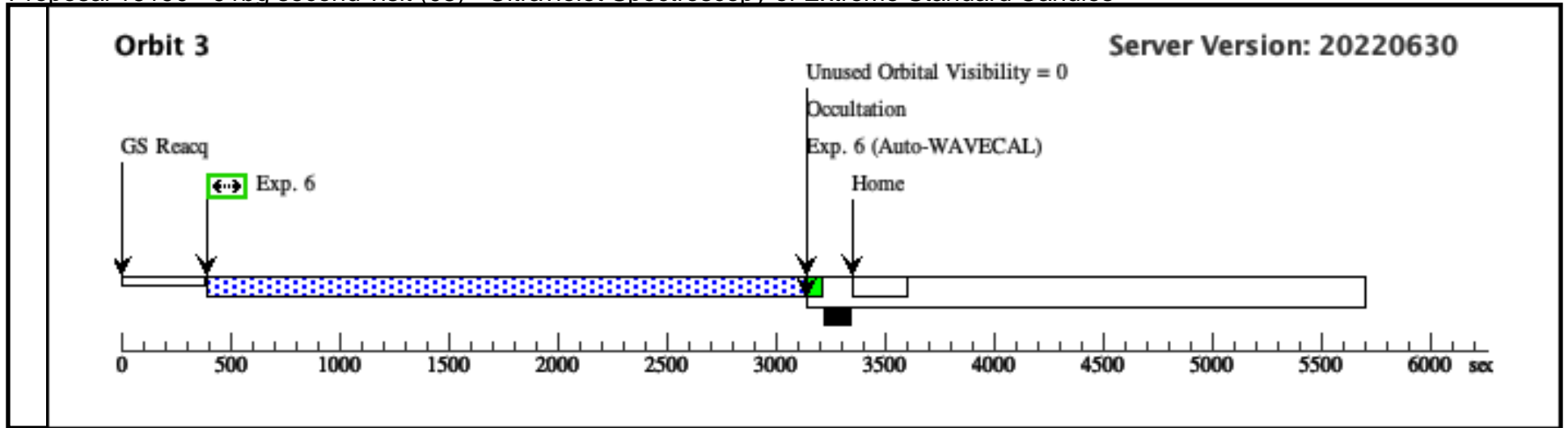
Mon Oct 03 15:01:39 GMT 2022

Visit	Proposal 16190, 22vqz 02es-like first visit (25) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: SCHED 100%; BETWEEN 05-OCT-2022:00:00:00 AND 28-OCT-2022:00:00:00; ON HOLD ; TOO RESPONSE TIME 3.0D <i>On Hold Comments: ToO trigger</i>																											
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(9)</td> <td>SN2022VQZ</td> <td>RA: 00 51 5.7787 (12.7740779d) Dec: +29 32 12.28 (29.53674d) Equinox: J2000</td> <td></td> <td>V=18</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"> <i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA] </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(9)	SN2022VQZ	RA: 00 51 5.7787 (12.7740779d) Dec: +29 32 12.28 (29.53674d) Equinox: J2000		V=18	Reference Frame: ICRS	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]				
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																						
(9)	SN2022VQZ	RA: 00 51 5.7787 (12.7740779d) Dec: +29 32 12.28 (29.53674d) Equinox: J2000		V=18	Reference Frame: ICRS																							
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]																												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																		
	1	acq (1003284)	(9) SN2022VQZ	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs) [==>]	[1]																		
	2	acq/peak (1747363)	(9) SN2022VQZ	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				1 Secs (1 Secs) [==>]	[1]																		
	3	nuvopt-stis (1003290)	(9) SN2022VQZ	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (716 Secs) [==>358.0 Secs (Split 1)] [==>358.0 Secs (Split 2)]	[1]																		
	4	nuv-mama (1003282)	(9) SN2022VQZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (758 Secs) [==>758.0 Secs]	[1]																		
	5	nuv-mama2 (1003282)	(9) SN2022VQZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2498 Secs) [==>2498.0 Secs]	[2]																		
	6	nuv-mama3 (1003282)	(9) SN2022VQZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2498 Secs) [==>2498.0 Secs]	[3]																		





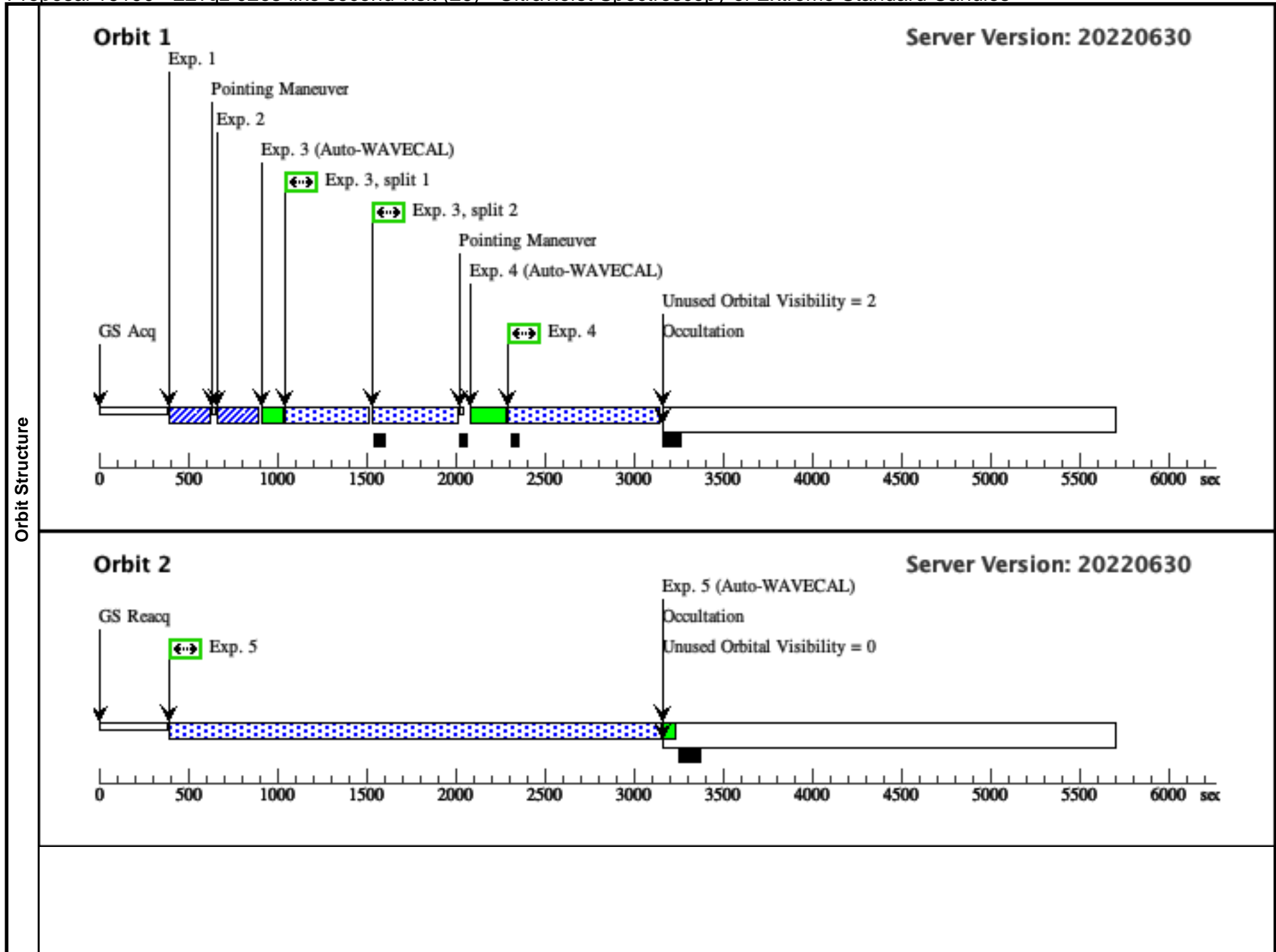


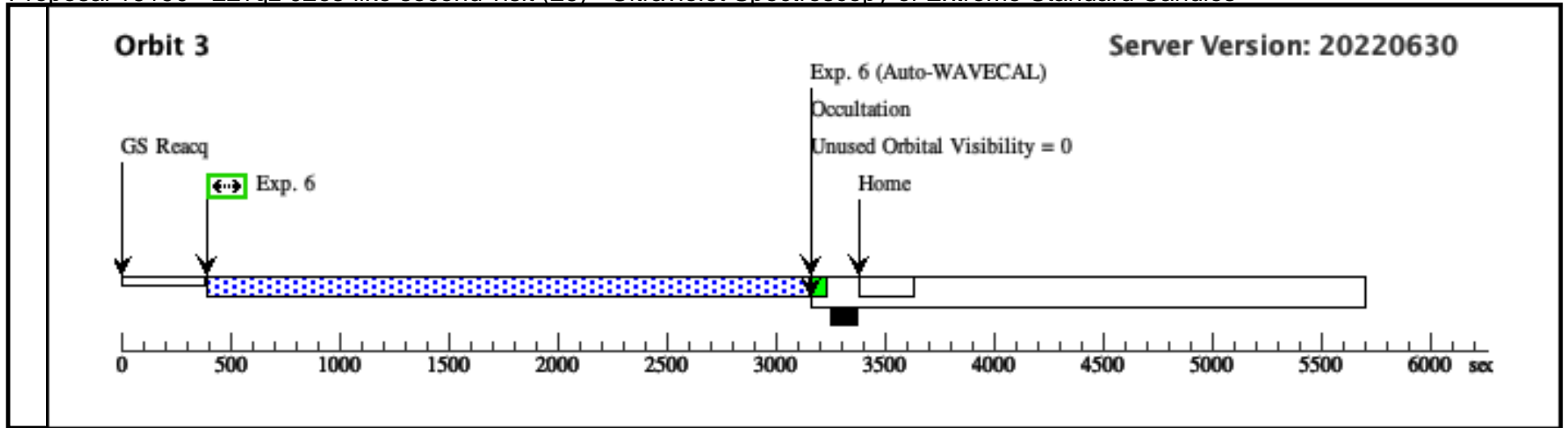


Proposal 16190 - 22vqz 02es-like second visit (26) - Ultraviolet Spectroscopy of Extreme Standard Candles

Mon Oct 03 15:01:39 GMT 2022

Visit	Proposal 16190, 22vqz 02es-like second visit (26) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: AFTER 25 BY 2 D TO 3 D; ON HOLD <i>On Hold Comments: ToO trigger</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(9)	SN2022VQZ	RA: 00 51 5.7787 (12.7740779d) Dec: +29 32 12.28 (29.53674d) Equinox: J2000		V=18	Reference Frame: ICRS				
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	acq (1003284)	(9) SN2022VQZ	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs)	
									[==>]	[1]
	2	acq/peak (1747363)	(9) SN2022VQZ	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				1 Secs (1 Secs)	
									[==>]	[1]
	3	nuvopt-stis (1003290)	(9) SN2022VQZ	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (880 Secs)	
									[==>440.0 Secs (Split 1)] [==>440.0 Secs (Split 2)]	[1]
4	nuv-mama (1003282)	(9) SN2022VQZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (840 Secs)		
								[==>840.0 Secs]	[1]	
5	nuv-mama2 (1003282)	(9) SN2022VQZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2745 Secs)		
								[==>2745.0 Secs]	[2]	
6	nuv-mama3 (1003282)	(9) SN2022VQZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2745 Secs)		
								[==>2745.0 Secs]	[3]	

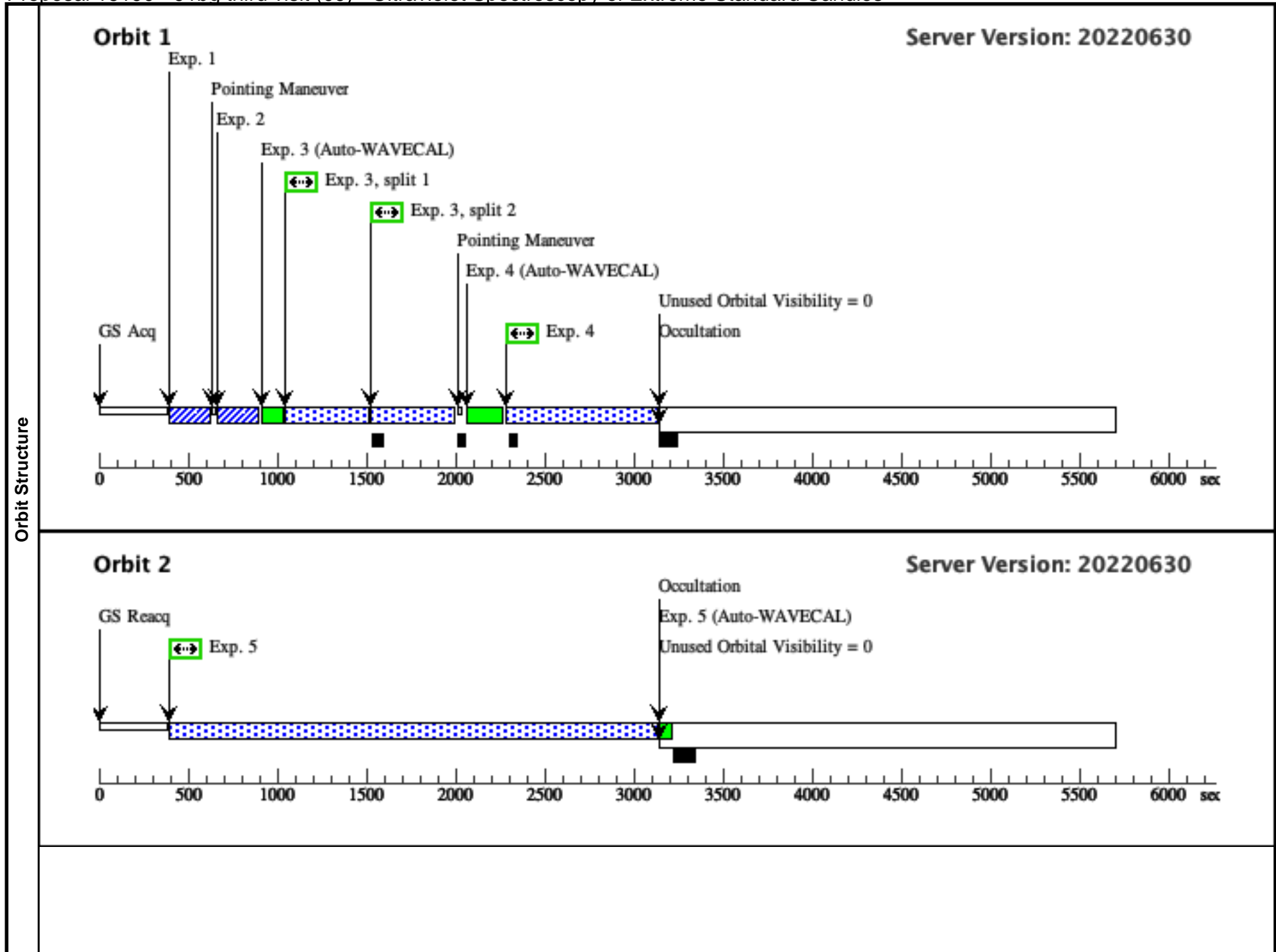


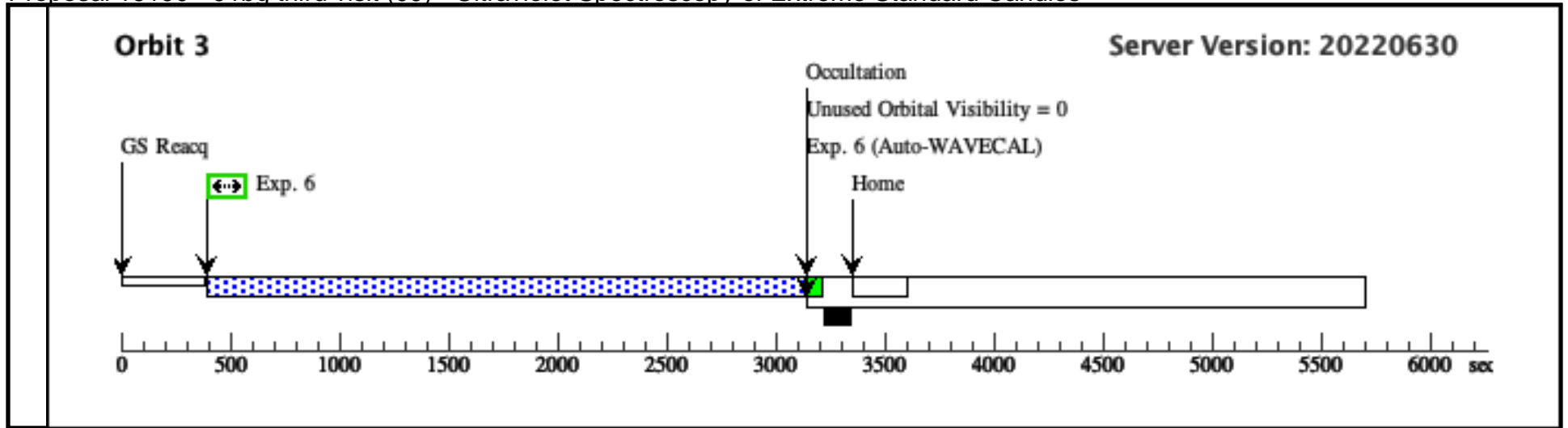


Proposal 16190 - 91bg third visit (09) - Ultraviolet Spectroscopy of Extreme Standard Candles

Mon Oct 03 15:01:39 GMT 2022

Visit	Proposal 16190, 91bg third visit (09), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: AFTER 08 BY 2 D TO 3 D; ON HOLD <i>On Hold Comments: ToO trigger</i>																											
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>SN2022IHZ</td> <td>RA: 09 42 48.2273 (145.7009471d) Dec: -03 36 25.46 (-3.60707d) Equinox: J2000</td> <td></td> <td>V=14+/-1</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"> <i>Comments: SN1991bg-like</i> <i>Category=EXT-STAR</i> <i>Description=[SUPERNOVA TYPE IA]</i> </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(6)	SN2022IHZ	RA: 09 42 48.2273 (145.7009471d) Dec: -03 36 25.46 (-3.60707d) Equinox: J2000		V=14+/-1	Reference Frame: ICRS	<i>Comments: SN1991bg-like</i> <i>Category=EXT-STAR</i> <i>Description=[SUPERNOVA TYPE IA]</i>				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																							
(6)	SN2022IHZ	RA: 09 42 48.2273 (145.7009471d) Dec: -03 36 25.46 (-3.60707d) Equinox: J2000		V=14+/-1	Reference Frame: ICRS																							
<i>Comments: SN1991bg-like</i> <i>Category=EXT-STAR</i> <i>Description=[SUPERNOVA TYPE IA]</i>																												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																		
	1	acq (1003284)	(6) SN2022IHZ	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs) [==>]	[1]																		
	2	acq/peak (1747363)	(6) SN2022IHZ	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				1 Secs (1 Secs) [==>]	[1]																		
	3	nuvopt-stis (1003290)	(6) SN2022IHZ	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (866 Secs) [==>433.0 Secs (Split 1)] [==>433.0 Secs (Split 2)]	[1]																		
	4	nuv-mama (1003282)	(6) SN2022IHZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (833 Secs) [==>833.0 Secs]	[1]																		
	5	nuv-mama2 (1003282)	(6) SN2022IHZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2722 Secs) [==>2722.0 Secs]	[2]																		
	6	nuv-mama3 (1003282)	(6) SN2022IHZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2722 Secs) [==>2722.0 Secs]	[3]																		

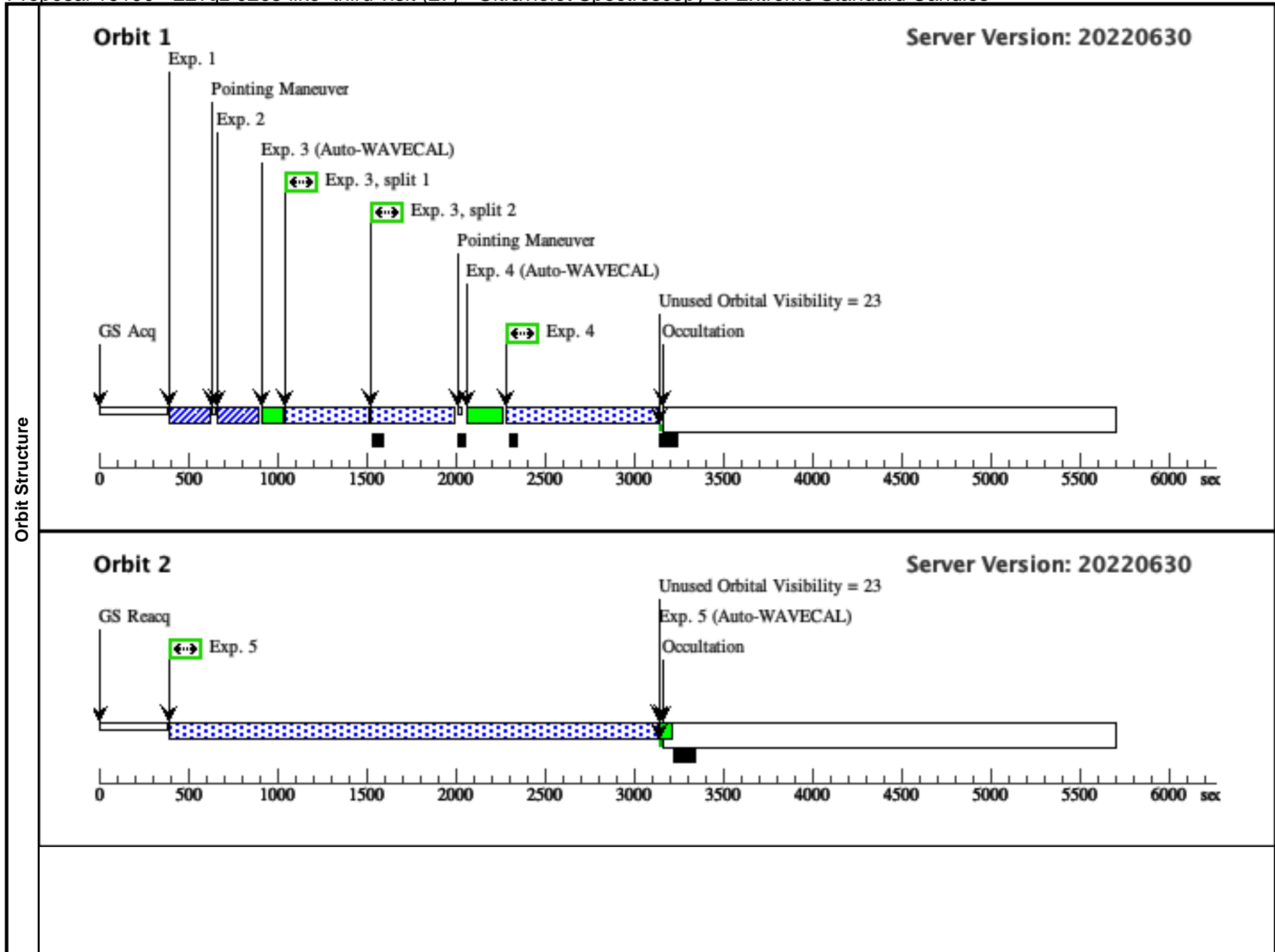


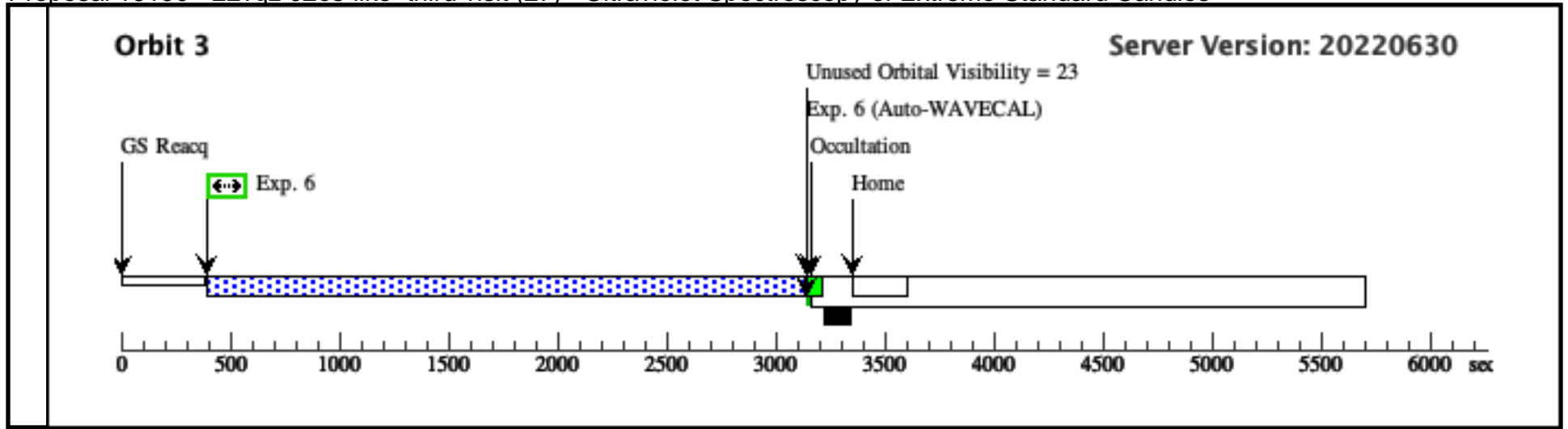


Proposal 16190 - 22vqz 02es-like third visit (27) - Ultraviolet Spectroscopy of Extreme Standard Candles

Mon Oct 03 15:01:39 GMT 2022

Visit	Proposal 16190, 22vqz 02es-like third visit (27) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: AFTER 26 BY 2 D TO 3 D; ON HOLD <i>On Hold Comments: ToO trigger</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(9)	SN2022VQZ	RA: 00 51 5.7787 (12.7740779d) Dec: +29 32 12.28 (29.53674d) Equinox: J2000		V=18	Reference Frame: ICRS				
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	acq (1003284)	(9) SN2022VQZ	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs)	
									[==>]	[1]
	2	acq/peak (1747363)	(9) SN2022VQZ	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				1 Secs (1 Secs)	
									[==>]	[1]
	3	nuvopt-stis (1003290)	(9) SN2022VQZ	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (866 Secs)	
									[==>433.0 Secs (Split 1)] [==>433.0 Secs (Split 2)]	[1]
4	nuv-mama (1003282)	(9) SN2022VQZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (833 Secs)		
								[==>833.0 Secs]	[1]	
5	nuv-mama2 (1003282)	(9) SN2022VQZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2722 Secs)		
								[==>2722.0 Secs]	[2]	
6	nuv-mama3 (1003282)	(9) SN2022VQZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2722 Secs)		
								[==>2722.0 Secs]	[3]	

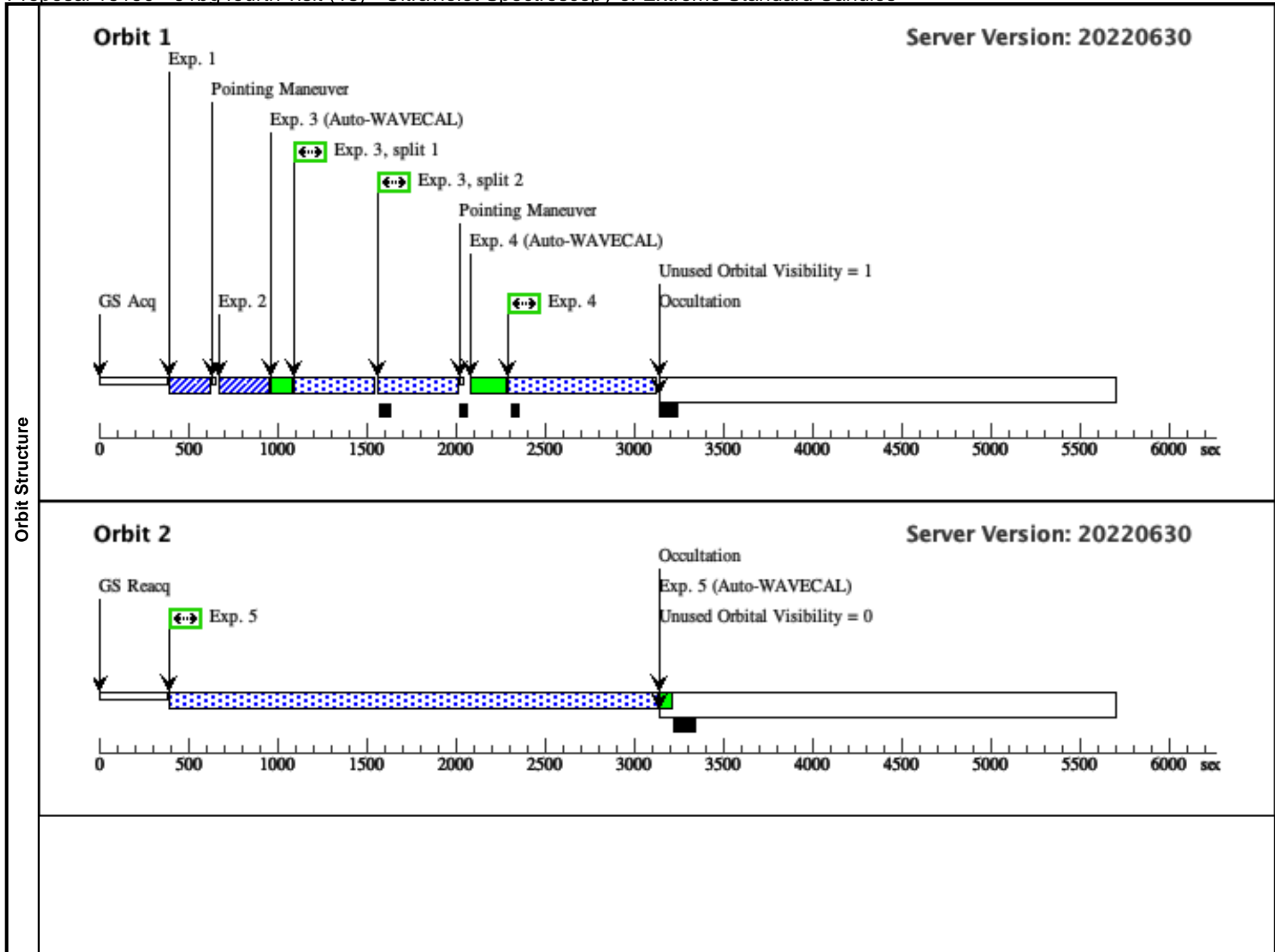


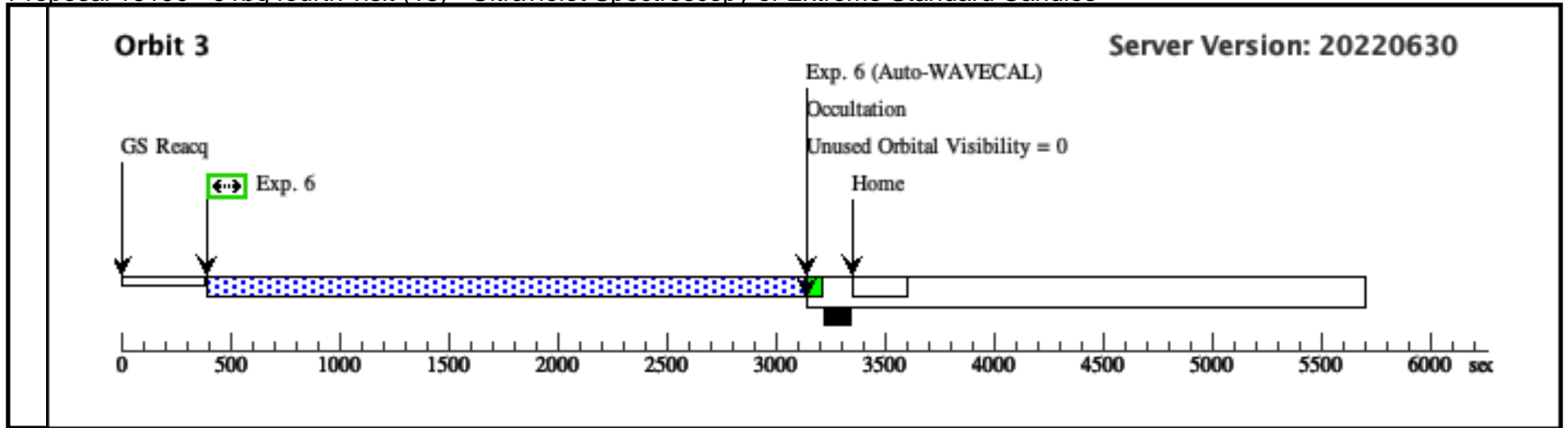


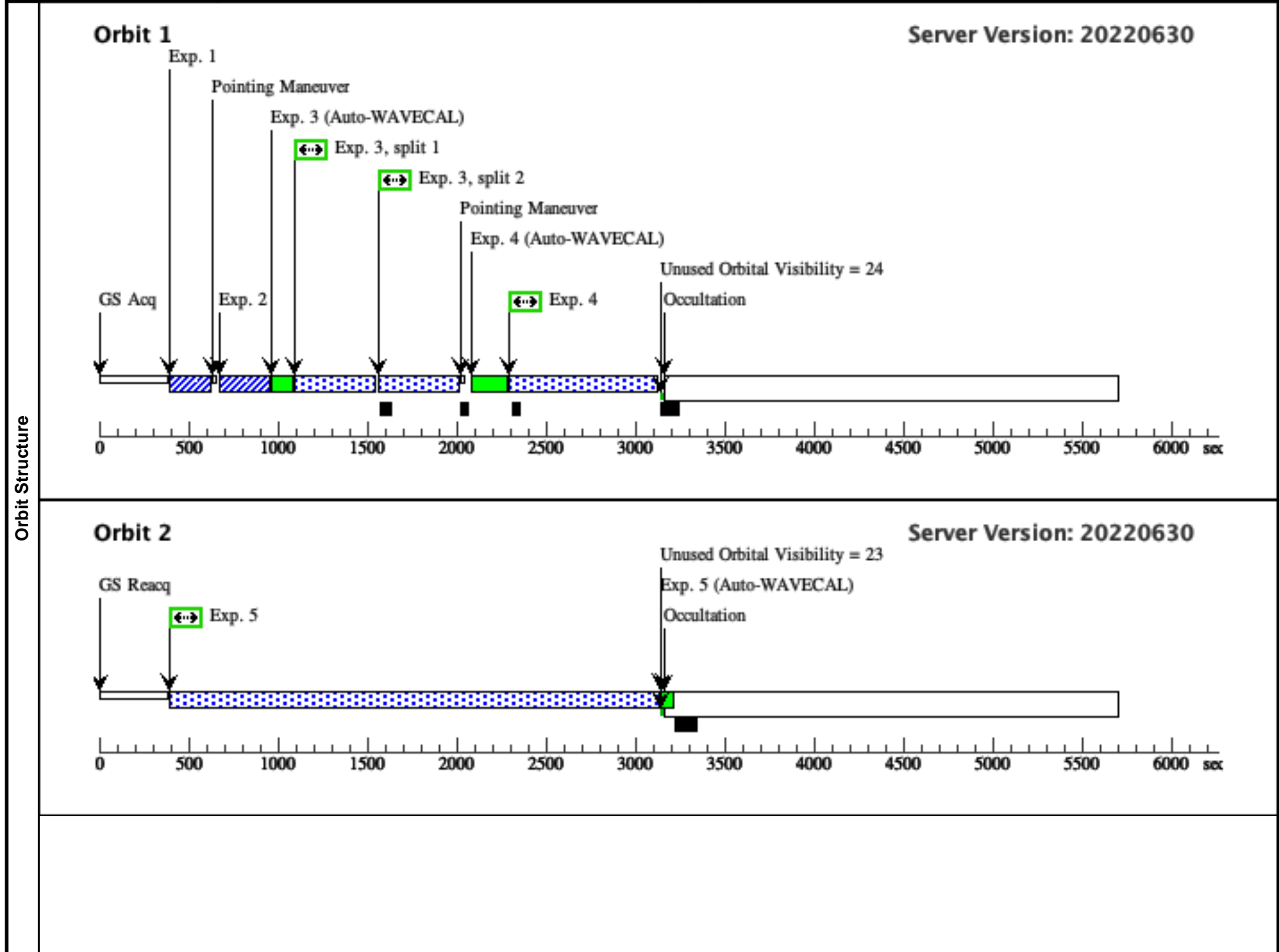
Proposal 16190 - 91bg fourth visit (18) - Ultraviolet Spectroscopy of Extreme Standard Candles

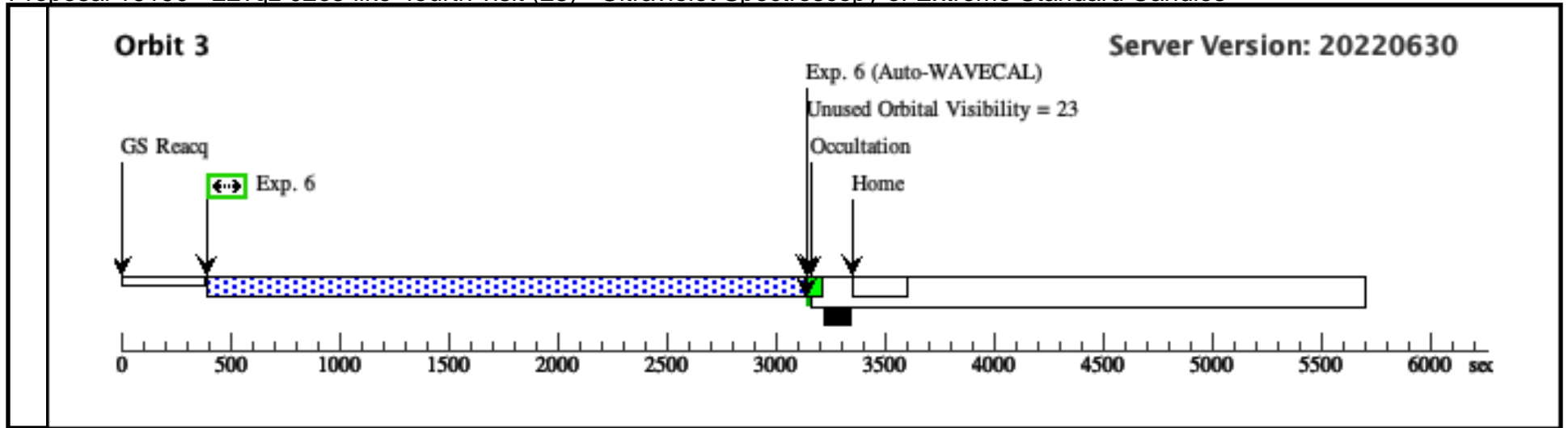
Mon Oct 03 15:01:39 GMT 2022

Visit	Proposal 16190, 91bg fourth visit (18), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: AFTER 09 BY 5 D TO 6 D; ON HOLD <i>On Hold Comments: ToO trigger</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(6)	SN2022IHZ	RA: 09 42 48.2273 (145.7009471d) Dec: -03 36 25.46 (-3.60707d) Equinox: J2000		V=14+/-1	Reference Frame: ICRS			
	<i>Comments: SN1991bg-like</i> <i>Category=EXT-STAR</i> <i>Description=[SUPERNOVA TYPE IA]</i>									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	acq (1747365)	(6) SN2022IHZ	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs)	
									[==>]	[1]
	2	acq/peak (1747366)	(6) SN2022IHZ	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				5 Secs (5 Secs)	
									[==>]	[1]
	3	nuvopt-stis (1003290)	(6) SN2022IHZ	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (832 Secs)	
									[==>416.0 Secs (Split 1)] [==>416.0 Secs (Split 2)]	[1]
4	nuv-mama (1003282)	(6) SN2022IHZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (816 Secs)		
								[==>816.0 Secs]	[1]	
5	nuv-mama2 (1003282)	(6) SN2022IHZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2722 Secs)		
								[==>2722.0 Secs]	[2]	
6	nuv-mama3 (1003282)	(6) SN2022IHZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2722 Secs)		
								[==>2722.0 Secs]	[3]	





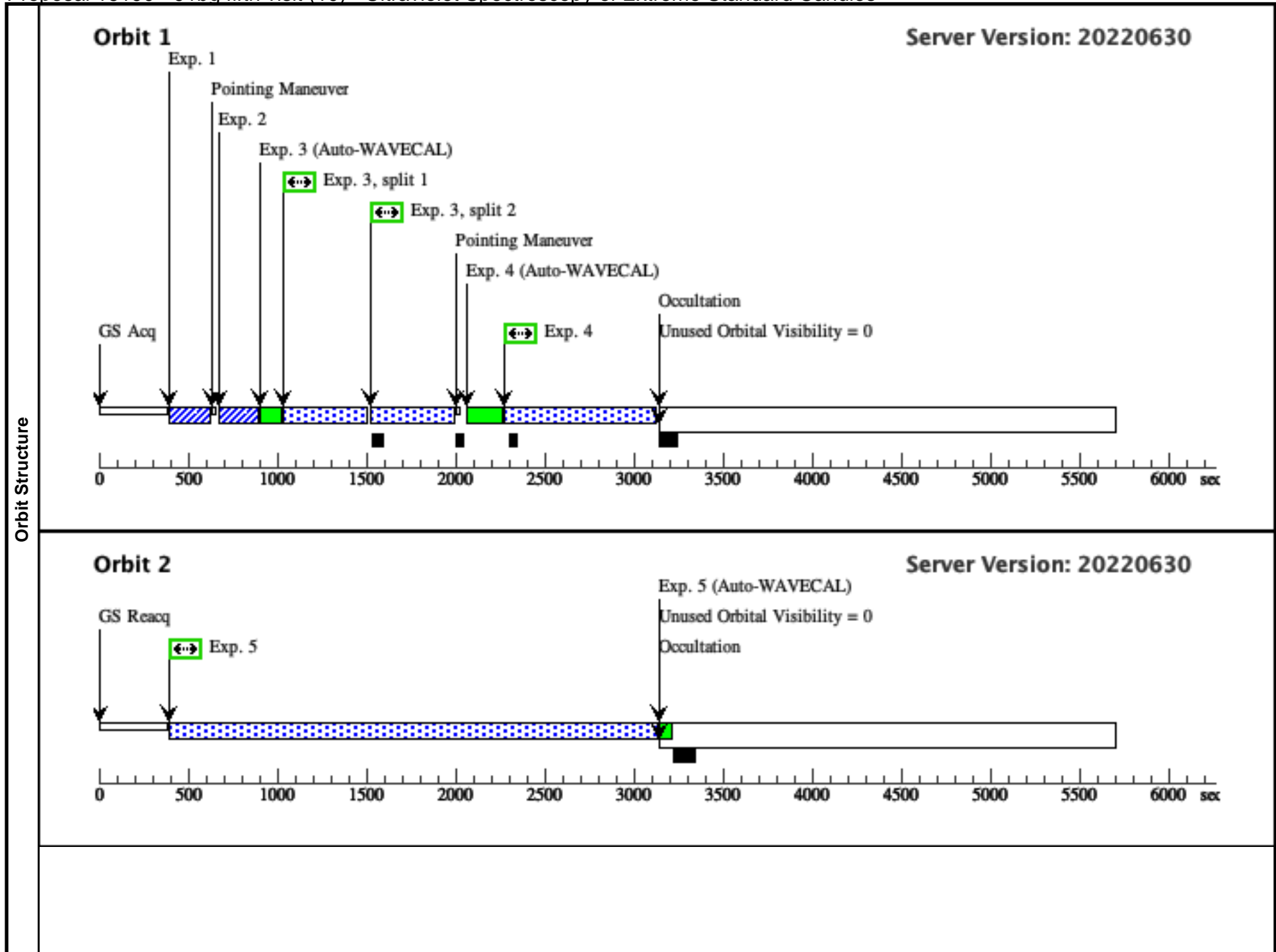


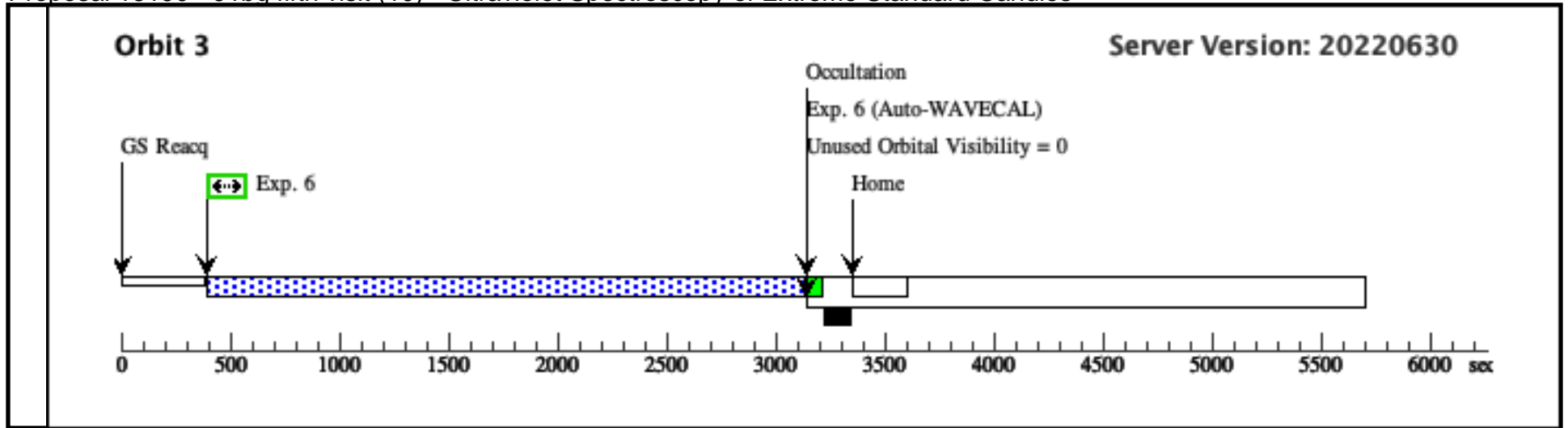


Proposal 16190 - 91bg fifth visit (10) - Ultraviolet Spectroscopy of Extreme Standard Candles

Mon Oct 03 15:01:39 GMT 2022

Visit	Proposal 16190, 91bg fifth visit (10), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: AFTER 18 BY 5 D TO 6 D; ON HOLD <i>On Hold Comments: ToO trigger</i>																																																																															
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>SN2022IHZ</td> <td>RA: 09 42 48.2273 (145.7009471d) Dec: -03 36 25.46 (-3.60707d) Equinox: J2000</td> <td></td> <td>V=14+/-1</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"> <i>Comments: SN1991bg-like</i> <i>Category=EXT-STAR</i> <i>Description=[SUPERNOVA TYPE IA]</i> </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(6)	SN2022IHZ	RA: 09 42 48.2273 (145.7009471d) Dec: -03 36 25.46 (-3.60707d) Equinox: J2000		V=14+/-1	Reference Frame: ICRS	<i>Comments: SN1991bg-like</i> <i>Category=EXT-STAR</i> <i>Description=[SUPERNOVA TYPE IA]</i>																																																								
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																																											
(6)	SN2022IHZ	RA: 09 42 48.2273 (145.7009471d) Dec: -03 36 25.46 (-3.60707d) Equinox: J2000		V=14+/-1	Reference Frame: ICRS																																																																											
<i>Comments: SN1991bg-like</i> <i>Category=EXT-STAR</i> <i>Description=[SUPERNOVA TYPE IA]</i>																																																																																
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>acq (1747365)</td> <td>(6) SN2022IHZ</td> <td>STIS/CCD, ACQ, F28X50LP</td> <td>MIRROR</td> <td></td> <td></td> <td></td> <td>1 Secs (1 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>acq/peak (1003285)</td> <td>(6) SN2022IHZ</td> <td>STIS/CCD, ACQ/PEAK, 52X0.1E1</td> <td>MIRROR</td> <td></td> <td></td> <td></td> <td>0.1 Secs (0.1 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>nuvopt-stis (1003290)</td> <td>(6) SN2022IHZ</td> <td>STIS/CCD, ACCUM, 52X0.1E1</td> <td>G430L 4300 A</td> <td></td> <td></td> <td></td> <td>800 Secs (872 Secs) [==>436.0 Secs (Split 1)] [==>436.0 Secs (Split 2)]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>nuv-mama (1003282)</td> <td>(6) SN2022IHZ</td> <td>STIS/NUV-MAMA, ACCUM, 52X0.1</td> <td>G230L 2376 A</td> <td></td> <td></td> <td></td> <td>800 Secs (836 Secs) [==>836.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td>nuv-mama2 (1003282)</td> <td>(6) SN2022IHZ</td> <td>STIS/NUV-MAMA, ACCUM, 52X0.1</td> <td>G230L 2376 A</td> <td></td> <td></td> <td></td> <td>3000 Secs (2722 Secs) [==>2722.0 Secs]</td> <td>[2]</td> </tr> <tr> <td>6</td> <td>nuv-mama3 (1003282)</td> <td>(6) SN2022IHZ</td> <td>STIS/NUV-MAMA, ACCUM, 52X0.1</td> <td>G230L 2376 A</td> <td></td> <td></td> <td></td> <td>3000 Secs (2722 Secs) [==>2722.0 Secs]</td> <td>[3]</td> </tr> </tbody> </table>										#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	acq (1747365)	(6) SN2022IHZ	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]	2	acq/peak (1003285)	(6) SN2022IHZ	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				0.1 Secs (0.1 Secs) [==>]	[1]	3	nuvopt-stis (1003290)	(6) SN2022IHZ	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (872 Secs) [==>436.0 Secs (Split 1)] [==>436.0 Secs (Split 2)]	[1]	4	nuv-mama (1003282)	(6) SN2022IHZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (836 Secs) [==>836.0 Secs]	[1]	5	nuv-mama2 (1003282)	(6) SN2022IHZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2722 Secs) [==>2722.0 Secs]	[2]	6	nuv-mama3 (1003282)	(6) SN2022IHZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2722 Secs) [==>2722.0 Secs]	[3]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																																							
1	acq (1747365)	(6) SN2022IHZ	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]																																																																							
2	acq/peak (1003285)	(6) SN2022IHZ	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				0.1 Secs (0.1 Secs) [==>]	[1]																																																																							
3	nuvopt-stis (1003290)	(6) SN2022IHZ	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (872 Secs) [==>436.0 Secs (Split 1)] [==>436.0 Secs (Split 2)]	[1]																																																																							
4	nuv-mama (1003282)	(6) SN2022IHZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (836 Secs) [==>836.0 Secs]	[1]																																																																							
5	nuv-mama2 (1003282)	(6) SN2022IHZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2722 Secs) [==>2722.0 Secs]	[2]																																																																							
6	nuv-mama3 (1003282)	(6) SN2022IHZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2722 Secs) [==>2722.0 Secs]	[3]																																																																							

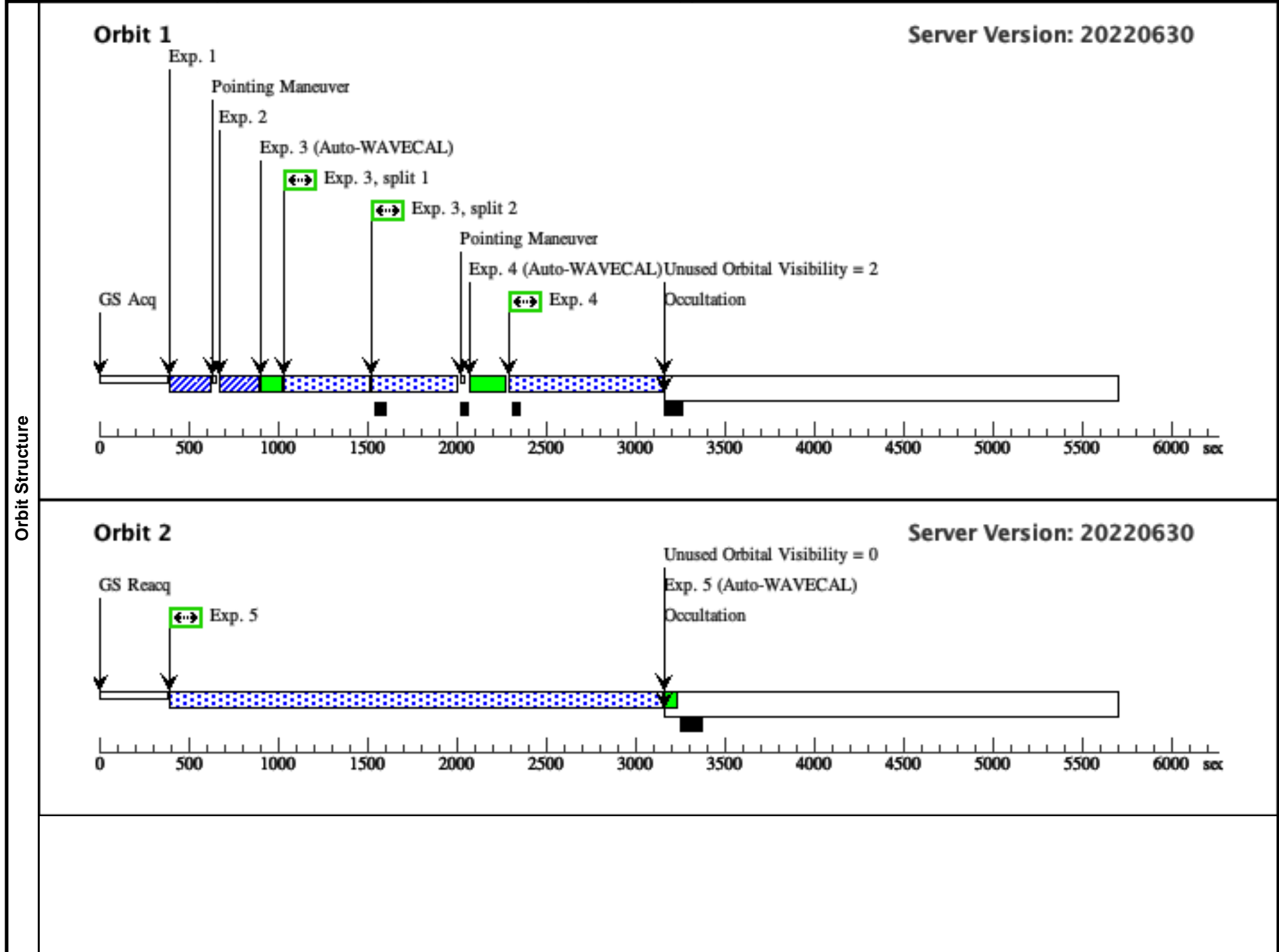


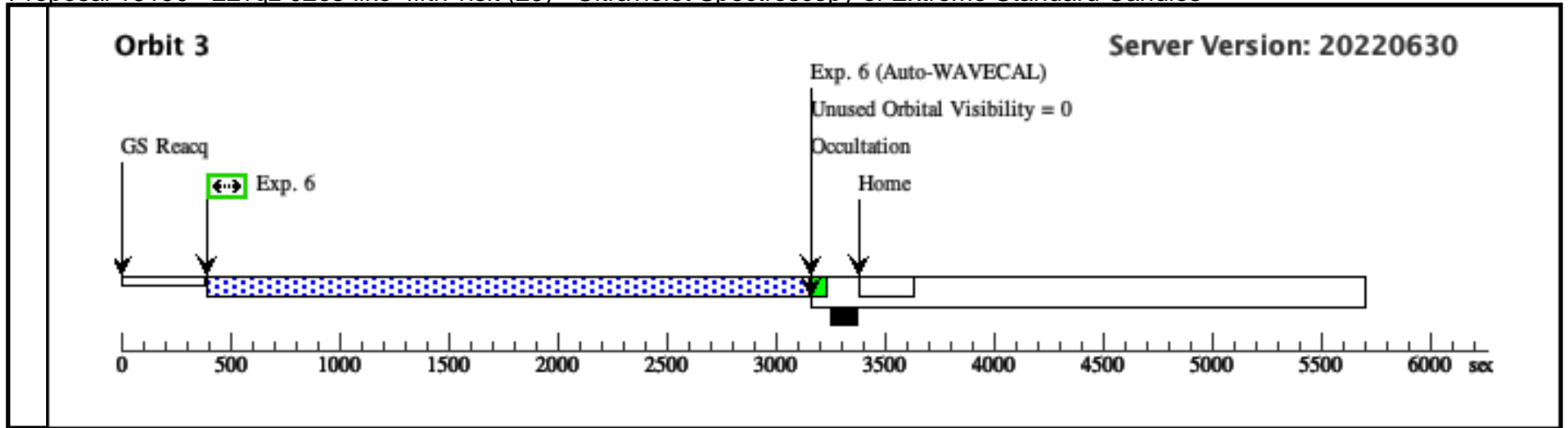


Proposal 16190 - 22vqz 02es-like fifth visit (29) - Ultraviolet Spectroscopy of Extreme Standard Candles

Mon Oct 03 15:01:40 GMT 2022

Visit	Proposal 16190, 22vqz 02es-like fifth visit (29) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: AFTER 28 BY 5 D TO 6 D; ON HOLD <i>On Hold Comments: ToO trigger</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(9)	SN2022VQZ	RA: 00 51 5.7787 (12.7740779d) Dec: +29 32 12.28 (29.53674d) Equinox: J2000		V=18	Reference Frame: ICRS				
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	acq (1747365)	(9) SN2022VQZ	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs)	
									[==>]	[1]
	2	acq/peak (1003285)	(9) SN2022VQZ	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				0.1 Secs (0.1 Secs)	
									[==>]	[1]
	3	nuvopt-stis (1003290)	(9) SN2022VQZ	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (886 Secs)	
									[==>443.0 Secs (Split 1)] [==>443.0 Secs (Split 2)]	[1]
4	nuv-mama (1003282)	(9) SN2022VQZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (843 Secs)		
								[==>843.0 Secs]	[1]	
5	nuv-mama2 (1003282)	(9) SN2022VQZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2745 Secs)		
								[==>2745.0 Secs]	[2]	
6	nuv-mama3 (1003282)	(9) SN2022VQZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2745 Secs)		
								[==>2745.0 Secs]	[3]	

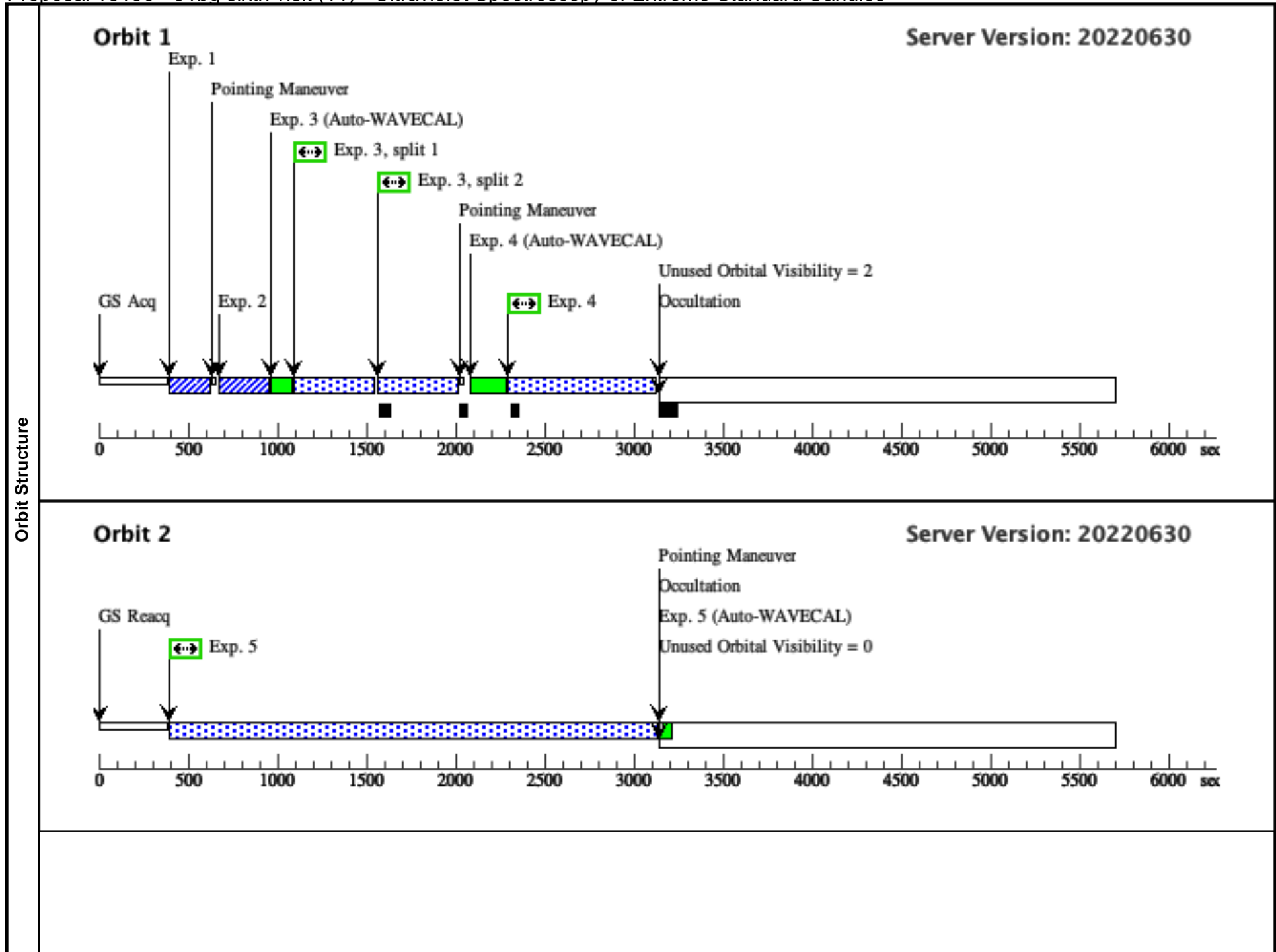


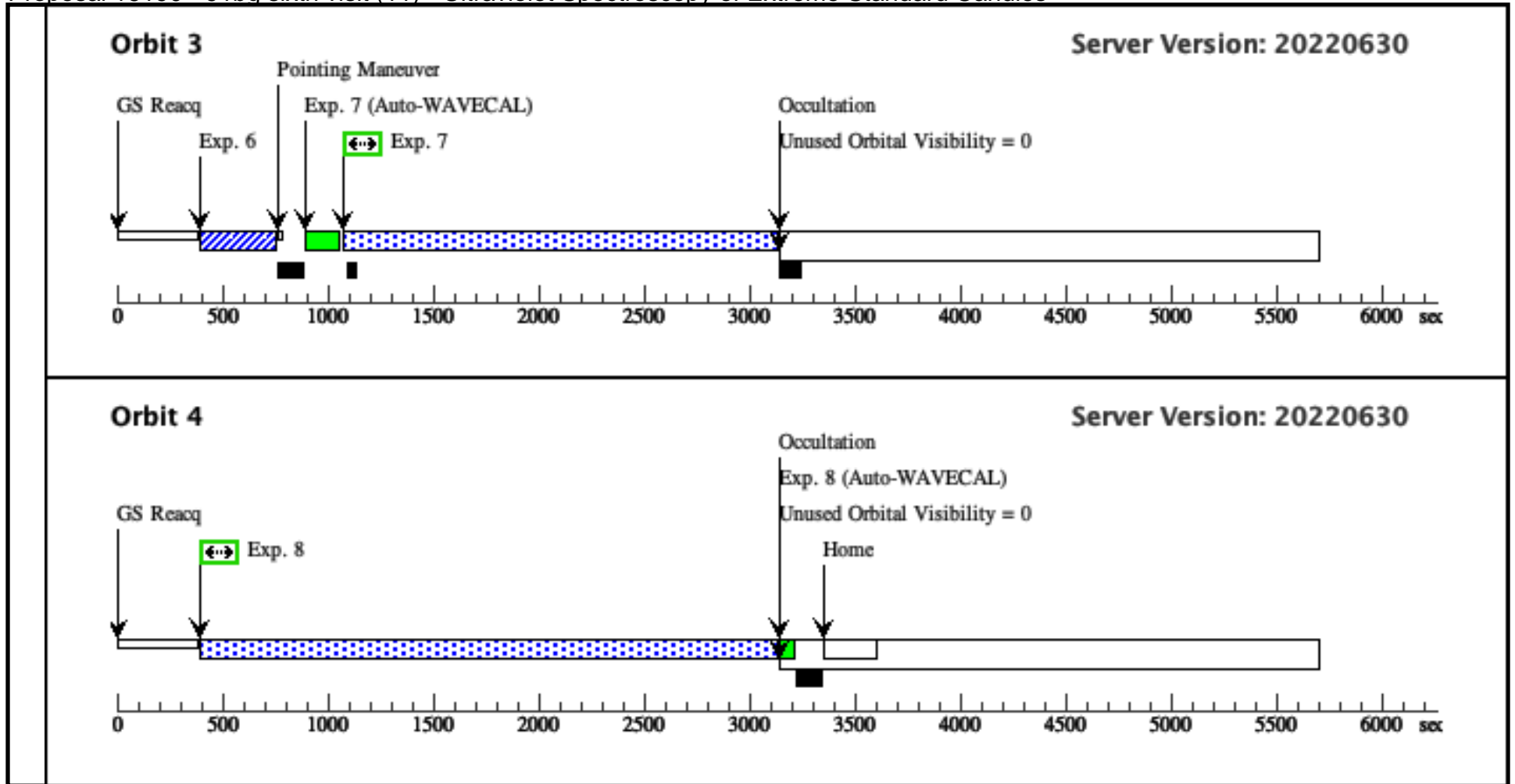


Proposal 16190 - 91bg sixth visit (11) - Ultraviolet Spectroscopy of Extreme Standard Candles

Mon Oct 03 15:01:40 GMT 2022

Visit	Proposal 16190, 91bg sixth visit (11), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: AFTER 10 BY 5 D TO 10 D; ON HOLD <i>On Hold Comments: ToO trigger</i>																										
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>SN2022IHZ</td> <td>RA: 09 42 48.2273 (145.7009471d) Dec: -03 36 25.46 (-3.60707d) Equinox: J2000</td> <td></td> <td>V=14+/-1</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"> <i>Comments: SN1991bg-like</i> <i>Category=EXT-STAR</i> <i>Description=[SUPERNOVA TYPE IA]</i> </td> </tr> </tbody> </table>									#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(6)	SN2022IHZ	RA: 09 42 48.2273 (145.7009471d) Dec: -03 36 25.46 (-3.60707d) Equinox: J2000		V=14+/-1	Reference Frame: ICRS	<i>Comments: SN1991bg-like</i> <i>Category=EXT-STAR</i> <i>Description=[SUPERNOVA TYPE IA]</i>				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																						
(6)	SN2022IHZ	RA: 09 42 48.2273 (145.7009471d) Dec: -03 36 25.46 (-3.60707d) Equinox: J2000		V=14+/-1	Reference Frame: ICRS																						
<i>Comments: SN1991bg-like</i> <i>Category=EXT-STAR</i> <i>Description=[SUPERNOVA TYPE IA]</i>																											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																	
	1	acq (1747365)	(6) SN2022IHZ	STIS/CCD, ACQ, F28X50LP	MIRROR				1.5 Secs (1.5 Secs) [==>]	[1]																	
	2	acq/peak (1747366)	(6) SN2022IHZ	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				5 Secs (5 Secs) [==>]	[1]																	
	3	nuvopt-stis (1003290)	(6) SN2022IHZ	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (830 Secs) [==>415.0 Secs (Split 1)] [==>415.0 Secs (Split 2)]	[1]																	
	4	nuv-mama (1003282)	(6) SN2022IHZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (815 Secs) [==>815.0 Secs]	[1]																	
	5	nuv-mama2 (1003282)	(6) SN2022IHZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2722 Secs) [==>2722.0 Secs]	[2]																	
	6	acq/peak (1747366)	(6) SN2022IHZ	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				5 Secs (5 Secs) [==>]	[3]																	
	7	nuv-mama4 (1003282)	(6) SN2022IHZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				1000 Secs (2043 Secs) [==>2043.0 Secs]	[3]																	
	8	nuv-mama5 (1003282)	(6) SN2022IHZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				2500 Secs (2722 Secs) [==>2722.0 Secs]	[4]																	

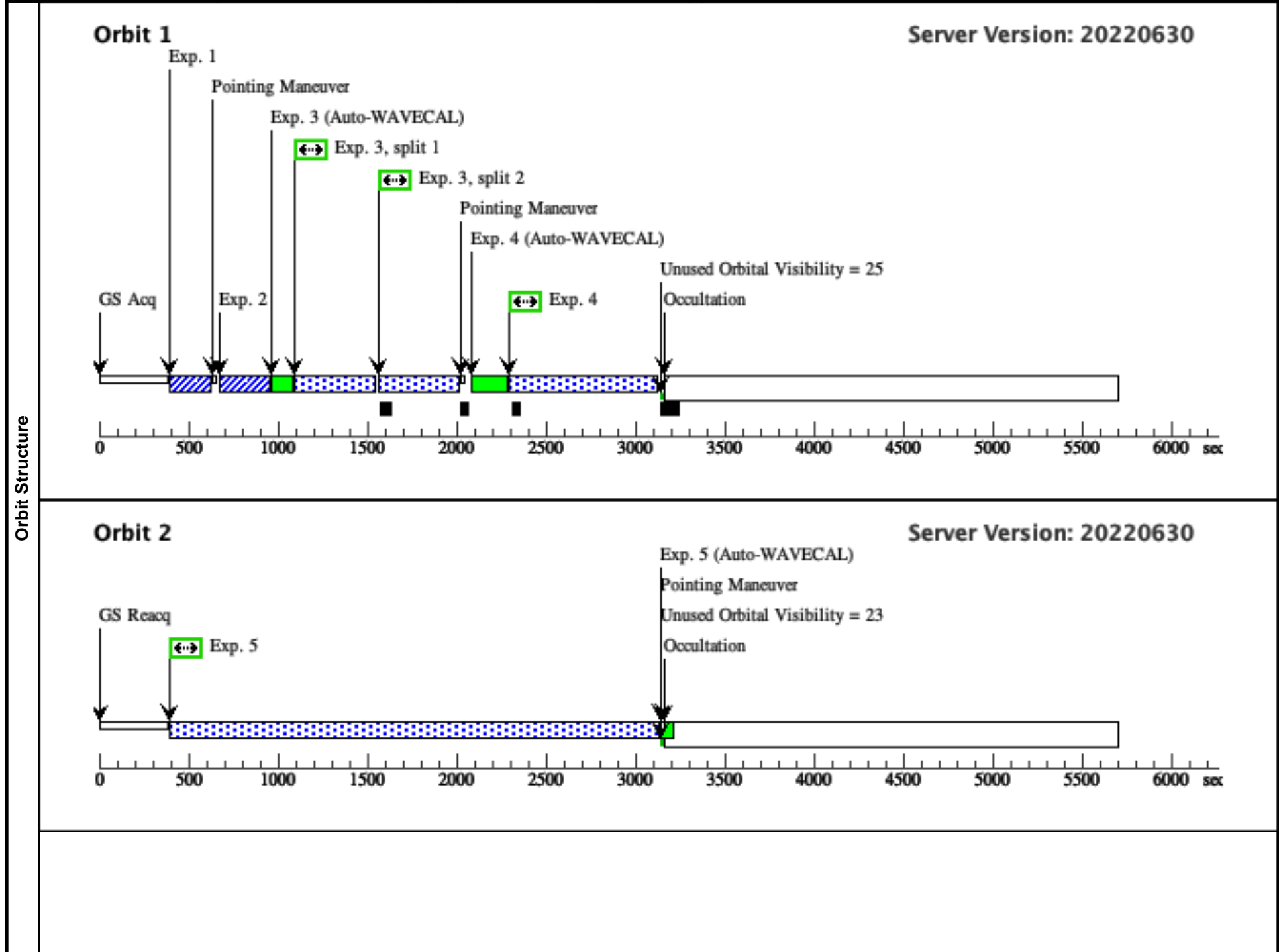


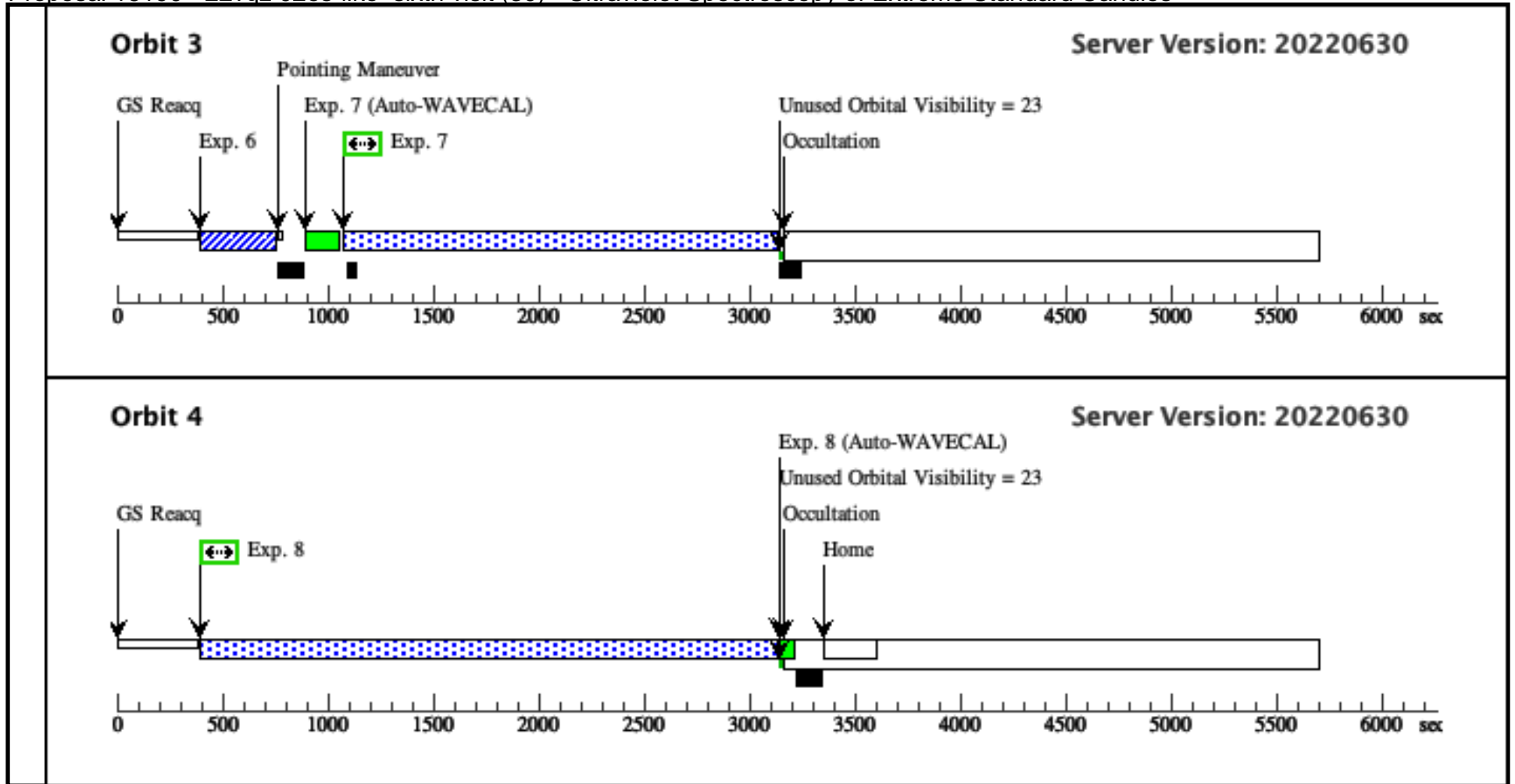


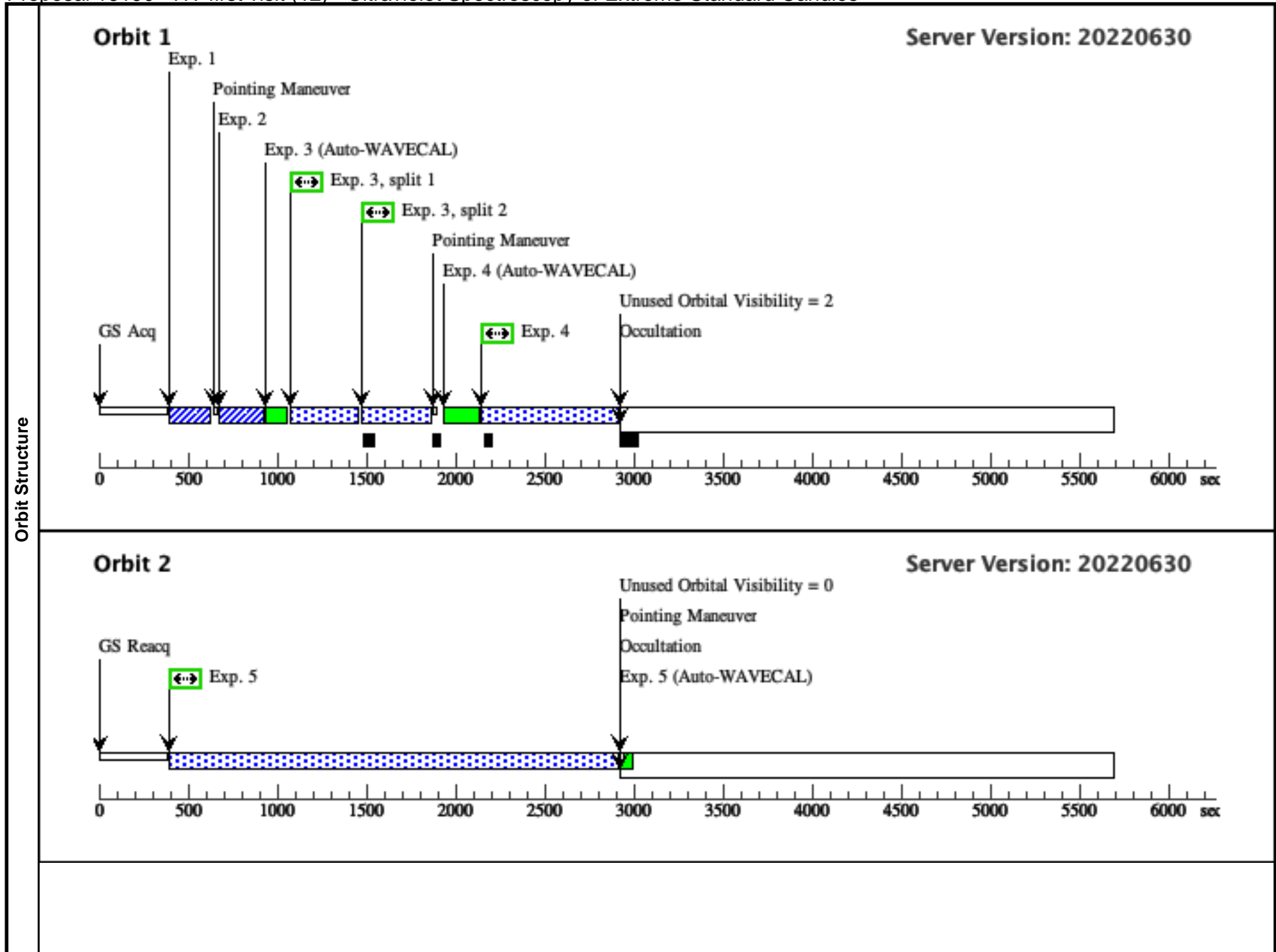
Proposal 16190 - 22vqz 02es-like sixth visit (30) - Ultraviolet Spectroscopy of Extreme Standard Candles

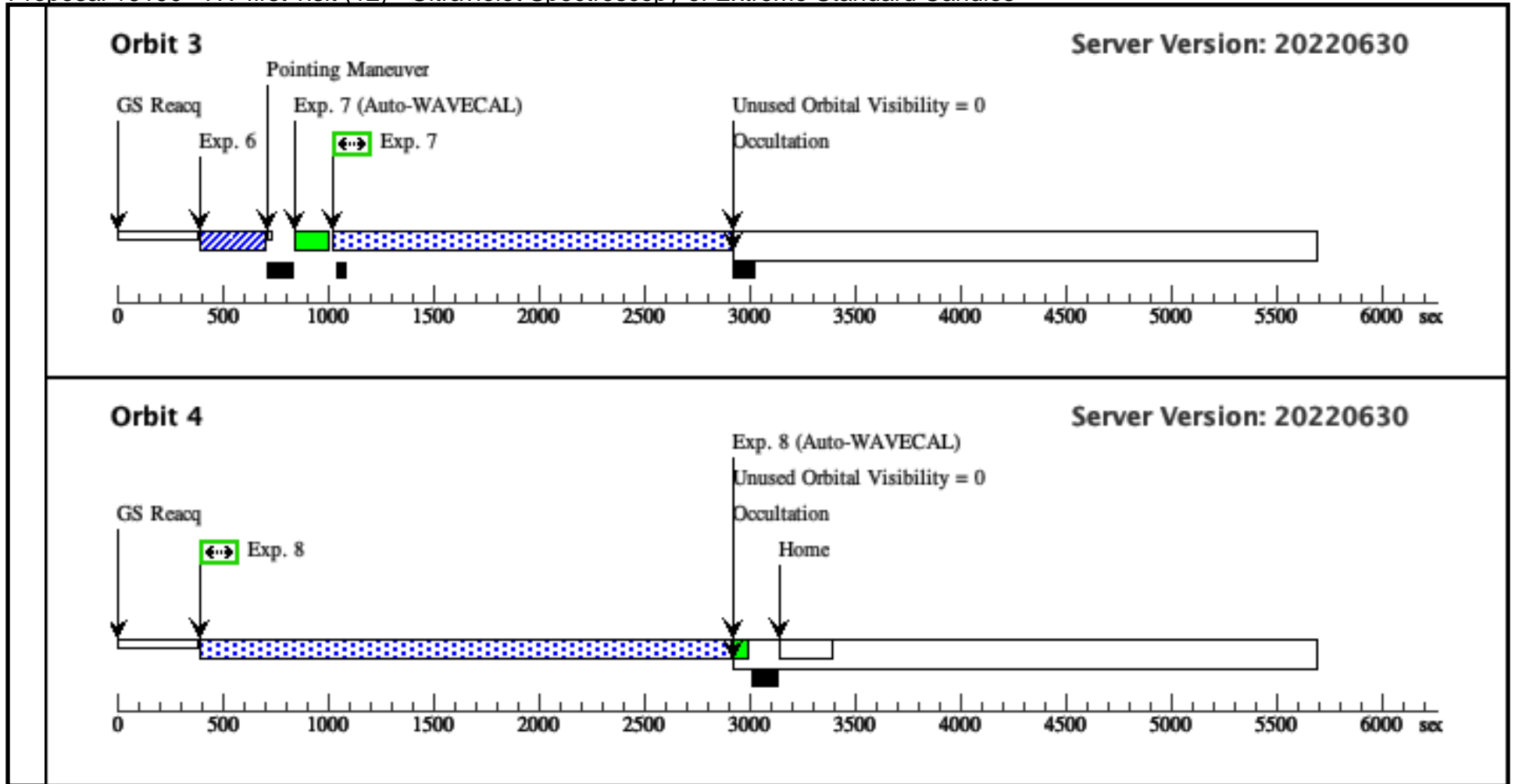
Mon Oct 03 15:01:40 GMT 2022

Visit	Proposal 16190, 22vqz 02es-like sixth visit (30) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: AFTER 29 BY 5 D TO 10 D; ON HOLD On Hold Comments: ToO trigger									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(9)	SN2022VQZ	RA: 00 51 5.7787 (12.7740779d) Dec: +29 32 12.28 (29.53674d) Equinox: J2000		V=18	Reference Frame: ICRS				
	Comments: Category=EXT-STAR Description=[SUPERNOVA TYPE IA]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	acq (1747365)	(9) SN2022VQZ	STIS/CCD, ACQ, F28X50LP	MIRROR				1.5 Secs (1.5 Secs)	
									[==>]	[1]
	2	acq/peak (1747366)	(9) SN2022VQZ	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				5 Secs (5 Secs)	
									[==>]	[1]
	3	nuvopt-stis (1003290)	(9) SN2022VQZ	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (830 Secs)	
									[==>415.0 Secs (Split 1)]	[1]
									[==>415.0 Secs (Split 2)]	
	4	nuv-mama (1003282)	(9) SN2022VQZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (815 Secs)	
								[==>815.0 Secs]	[1]	
5	nuv-mama2 (1003282)	(9) SN2022VQZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2722 Secs)		
								[==>2722.0 Secs]	[2]	
6	acq/peak (1747366)	(9) SN2022VQZ	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				5 Secs (5 Secs)		
								[==>]	[3]	
7	nuv-mama4 (1003282)	(9) SN2022VQZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				1000 Secs (2043 Secs)		
								[==>2043.0 Secs]	[3]	
8	nuv-mama5 (1003282)	(9) SN2022VQZ	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				2500 Secs (2722 Secs)		
								[==>2722.0 Secs]	[4]	





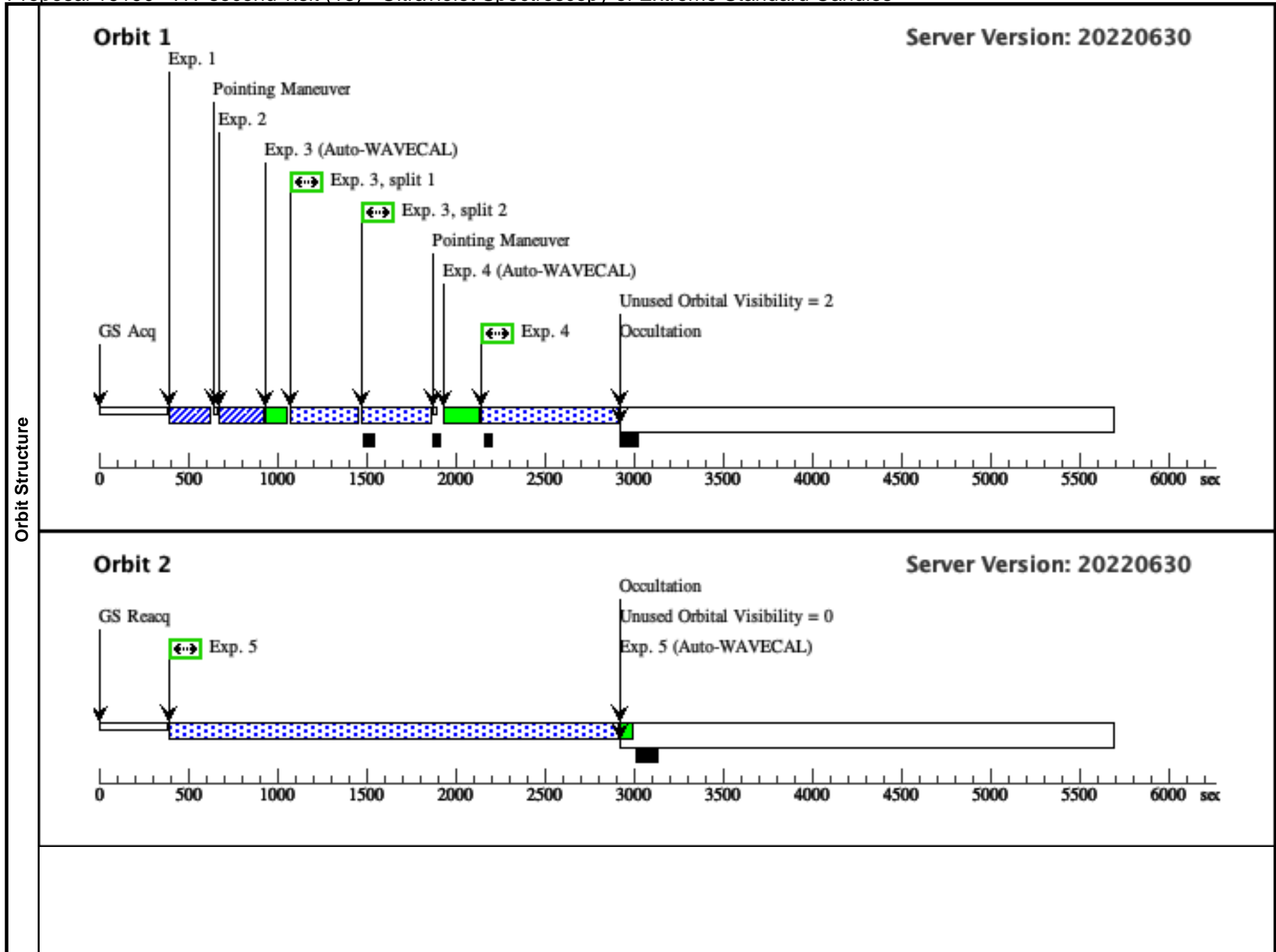


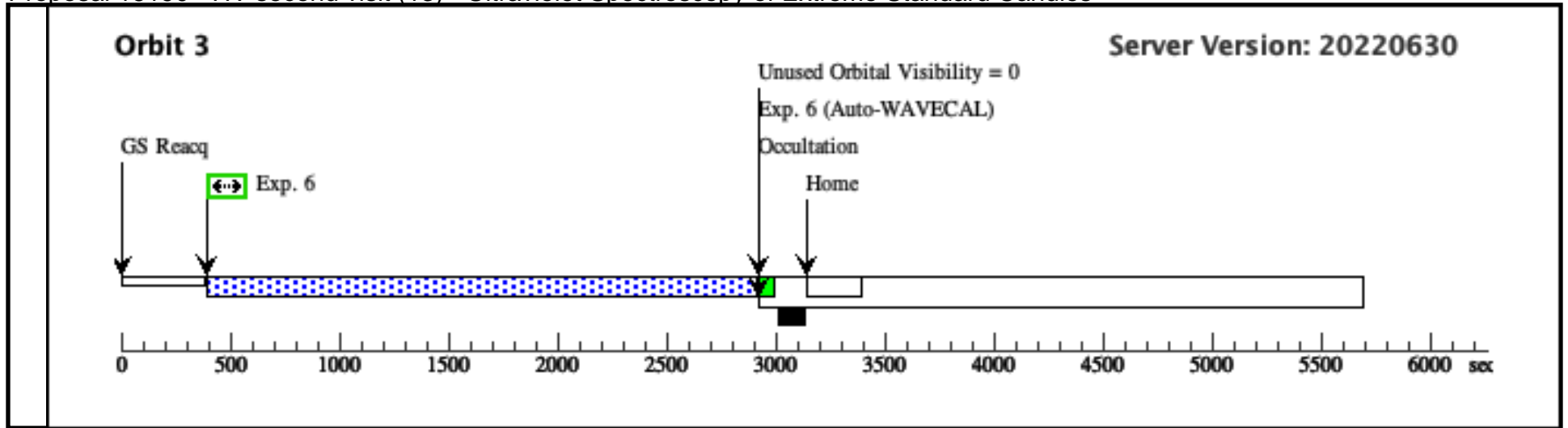


Proposal 16190 - HV second visit (13) - Ultraviolet Spectroscopy of Extreme Standard Candles

Mon Oct 03 15:01:40 GMT 2022

Visit	Proposal 16190, HV second visit (13), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: SCHED 100%; BETWEEN 25-APR-2022:00:00:00 AND 27-APR-2022:00:00:00									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(5)	SN2022HRS-HV	RA: 12 43 34.3500 (190.8931250d) Dec: +11 34 36.00 (11.57667d) Equinox: J2000		V=14.51+/-0.05	Reference Frame: ICRS			
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	acq (1745563)	(5) SN2022HRS-HV	STIS/CCD, ACQ, F28X50LP	MIRROR				2.5 Secs (2.5 Secs)	
									[==>]	[1]
	2	acq/peak (1745563)	(5) SN2022HRS-HV	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				2.5 Secs (2.5 Secs)	
									[==>]	[1]
	3	nuvopt-stis (1003290)	(5) SN2022HRS-HV	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (704 Secs)	
									[==>352.0 Secs (Split 1)] [==>352.0 Secs (Split 2)]	[1]
4	nuv-mama (1745607)	(5) SN2022HRS-HV	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (752 Secs)		
								[==>752.0 Secs]	[1]	
5	nuv-mama2 (1745607)	(5) SN2022HRS-HV	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2507 Secs)		
								[==>2507.0 Secs]	[2]	
6	nuv-mama3 (1745607)	(5) SN2022HRS-HV	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2507 Secs)		
								[==>2507.0 Secs]	[3]	

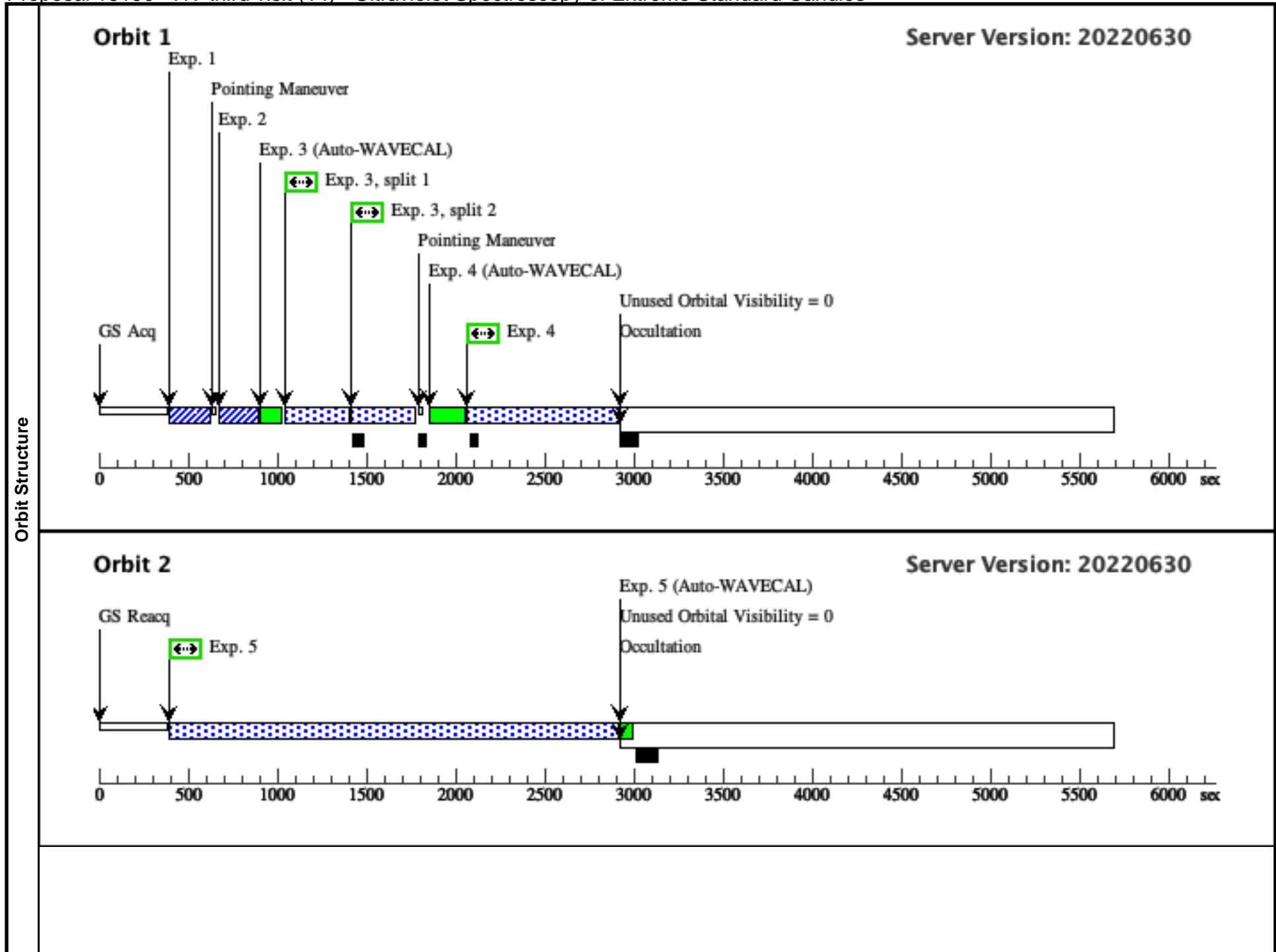


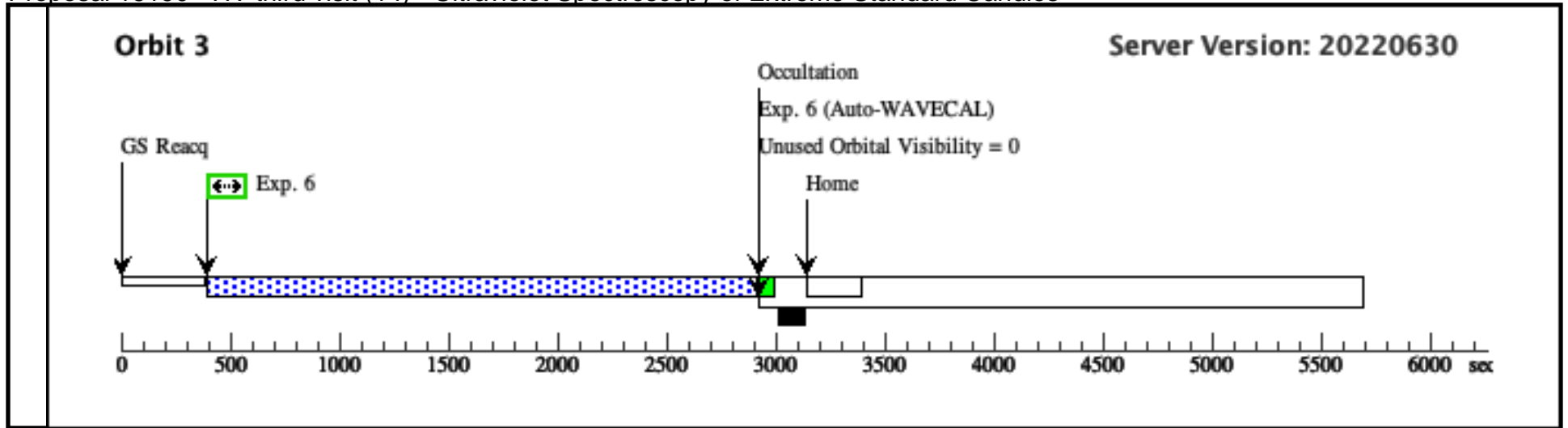


Proposal 16190 - HV third visit (14) - Ultraviolet Spectroscopy of Extreme Standard Candles

Mon Oct 03 15:01:40 GMT 2022

Visit	Proposal 16190, HV third visit (14), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: SCHED 100%; BETWEEN 27-APR-2022:00:00:00 AND 29-APR-2022:00:00:00									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(5)	SN2022HRS-HV	RA: 12 43 34.3500 (190.8931250d) Dec: +11 34 36.00 (11.57667d) Equinox: J2000		V=14.51+/-0.05	Reference Frame: ICRS			
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	acq (1745624)	(5) SN2022HRS-HV	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs)	
									[==>]	[1]
	2	acq/peak (1745623)	(5) SN2022HRS-HV	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				0.3 Secs (0.3 Secs)	
									[==>]	[1]
	3	nuvopt-stis (1745611)	(5) SN2022HRS-HV	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (656 Secs)	
									[==>328.0 Secs (Split 1)] [==>328.0 Secs (Split 2)]	[1]
4	nuv-mama (1745609)	(5) SN2022HRS-HV	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (834 Secs)		
								[==>834.0 Secs]	[1]	
5	nuv-mama2 (1745609)	(5) SN2022HRS-HV	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2507 Secs)		
								[==>2507.0 Secs]	[2]	
6	nuv-mama3 (1745609)	(5) SN2022HRS-HV	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2507 Secs)		
								[==>2507.0 Secs]	[3]	

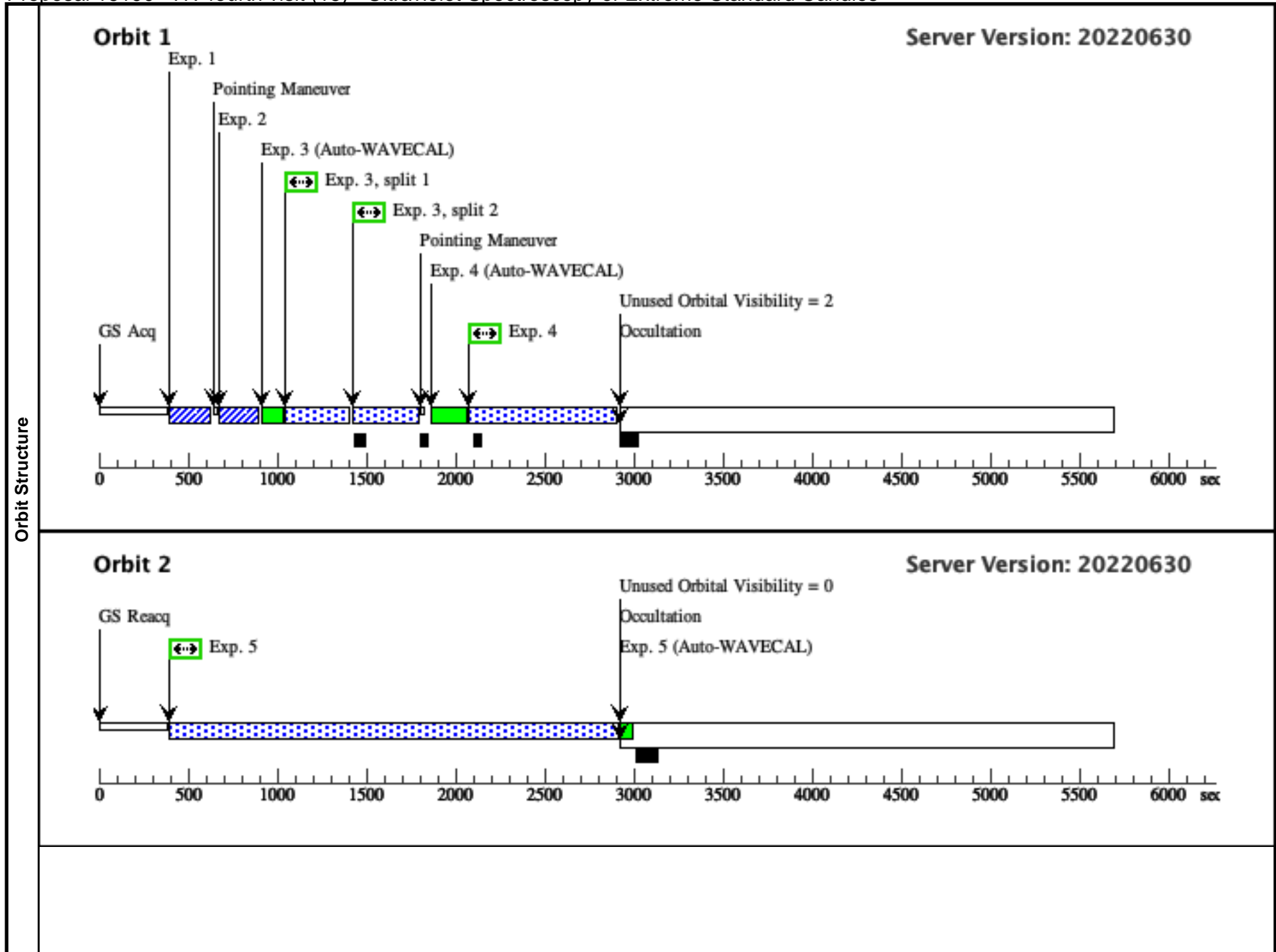


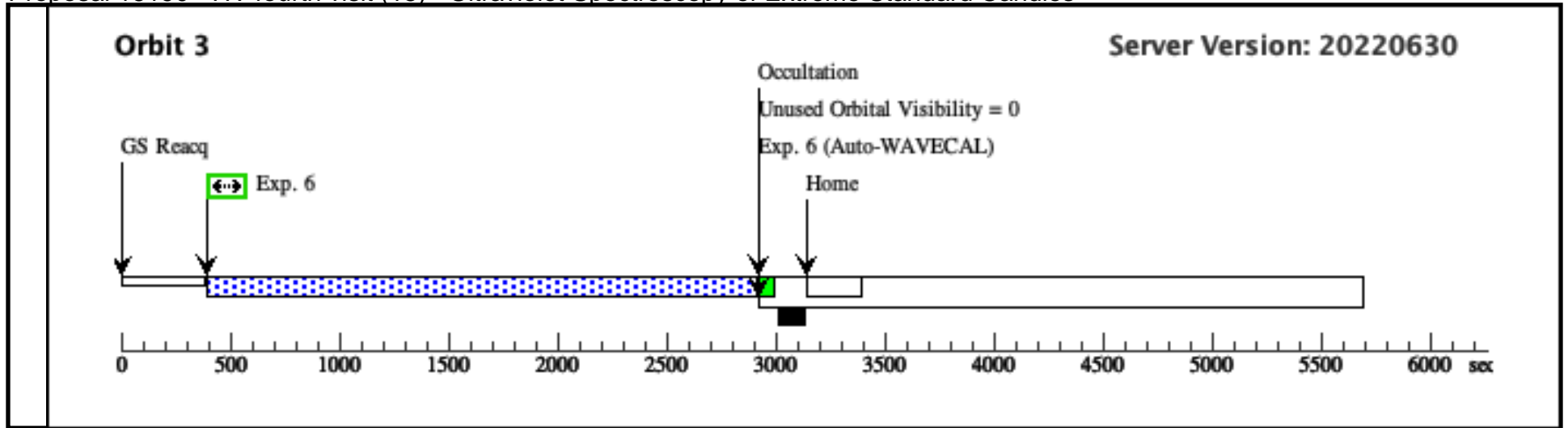


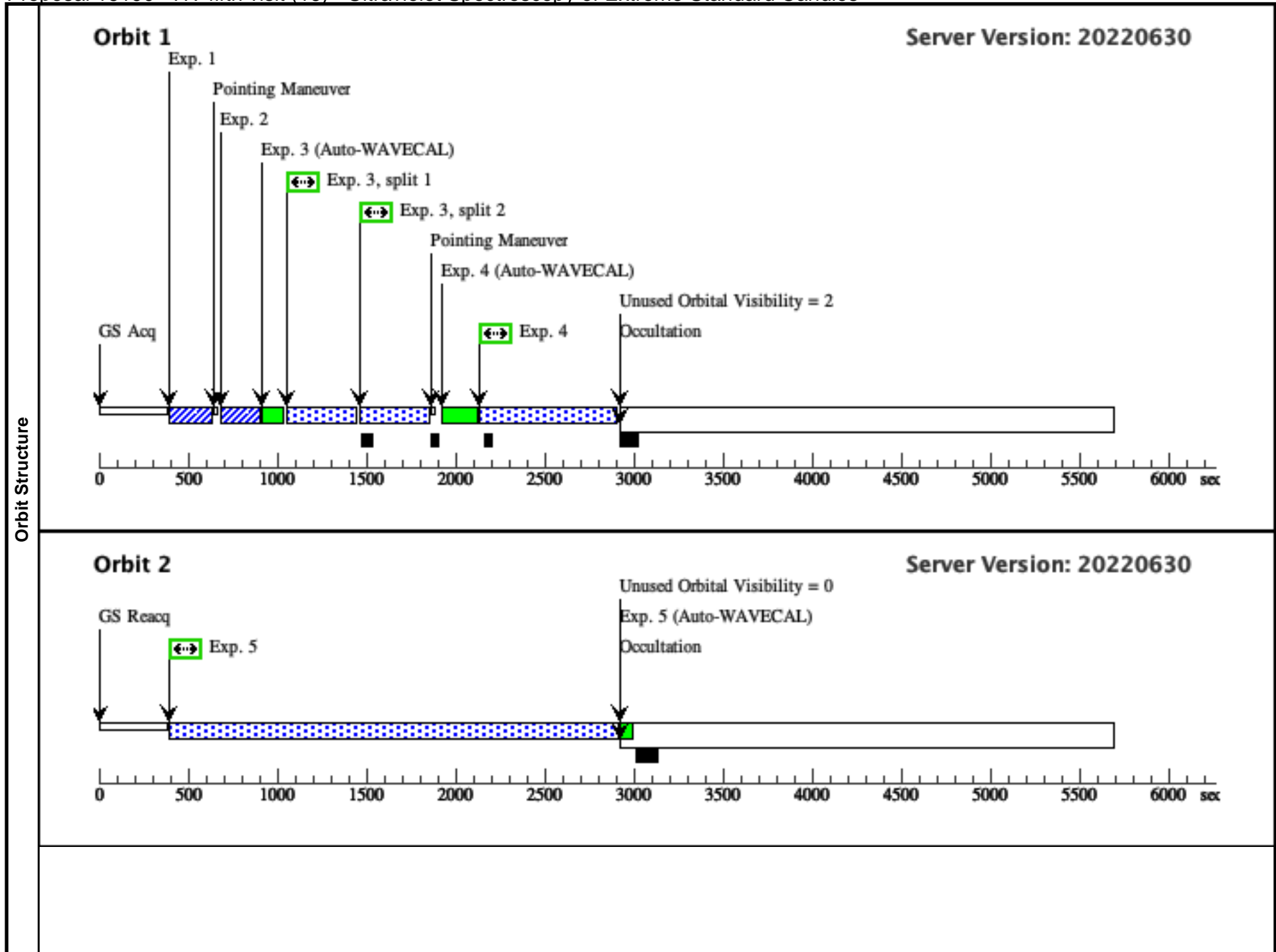
Proposal 16190 - HV fourth visit (15) - Ultraviolet Spectroscopy of Extreme Standard Candles

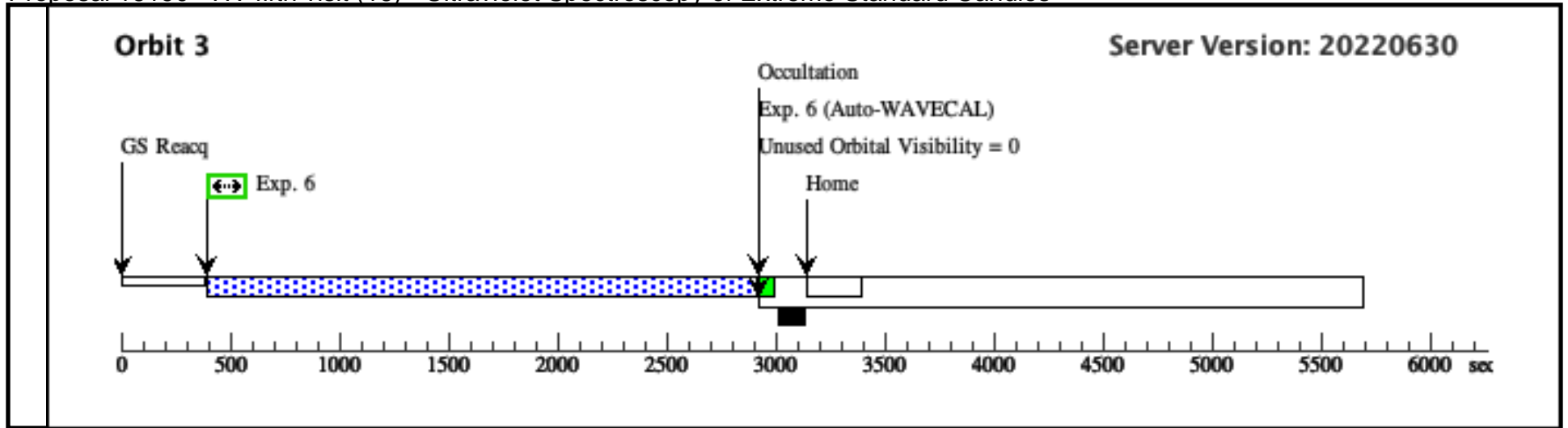
Mon Oct 03 15:01:40 GMT 2022

Visit	Proposal 16190, HV fourth visit (15), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: SCHED 100%; BETWEEN 06-MAY-2022:00:00:00 AND 10-MAY-2022:00:00:00									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(5)	SN2022HRS-HV	RA: 12 43 34.3500 (190.8931250d) Dec: +11 34 36.00 (11.57667d) Equinox: J2000		V=14.51+/-0.05	Reference Frame: ICRS			
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	acq (1745563)	(5) SN2022HRS-HV	STIS/CCD, ACQ, F28X50LP	MIRROR				2.5 Secs (2.5 Secs)	
									[==>]	[1]
	2	acq/peak (1745620)	(5) SN2022HRS-HV	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				0.5 Secs (0.5 Secs)	
									[==>]	[1]
	3	nuvopt-stis (1745615)	(5) SN2022HRS-HV	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (662 Secs)	
									[==>331.0 Secs (Split 1)] [==>331.0 Secs (Split 2)]	[1]
4	nuv-mama (1745607)	(5) SN2022HRS-HV	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (818 Secs)		
								[==>818.0 Secs]	[1]	
5	nuv-mama2 (1745607)	(5) SN2022HRS-HV	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2507 Secs)		
								[==>2507.0 Secs]	[2]	
6	nuv-mama3 (1745607)	(5) SN2022HRS-HV	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2507 Secs)		
								[==>2507.0 Secs]	[3]	





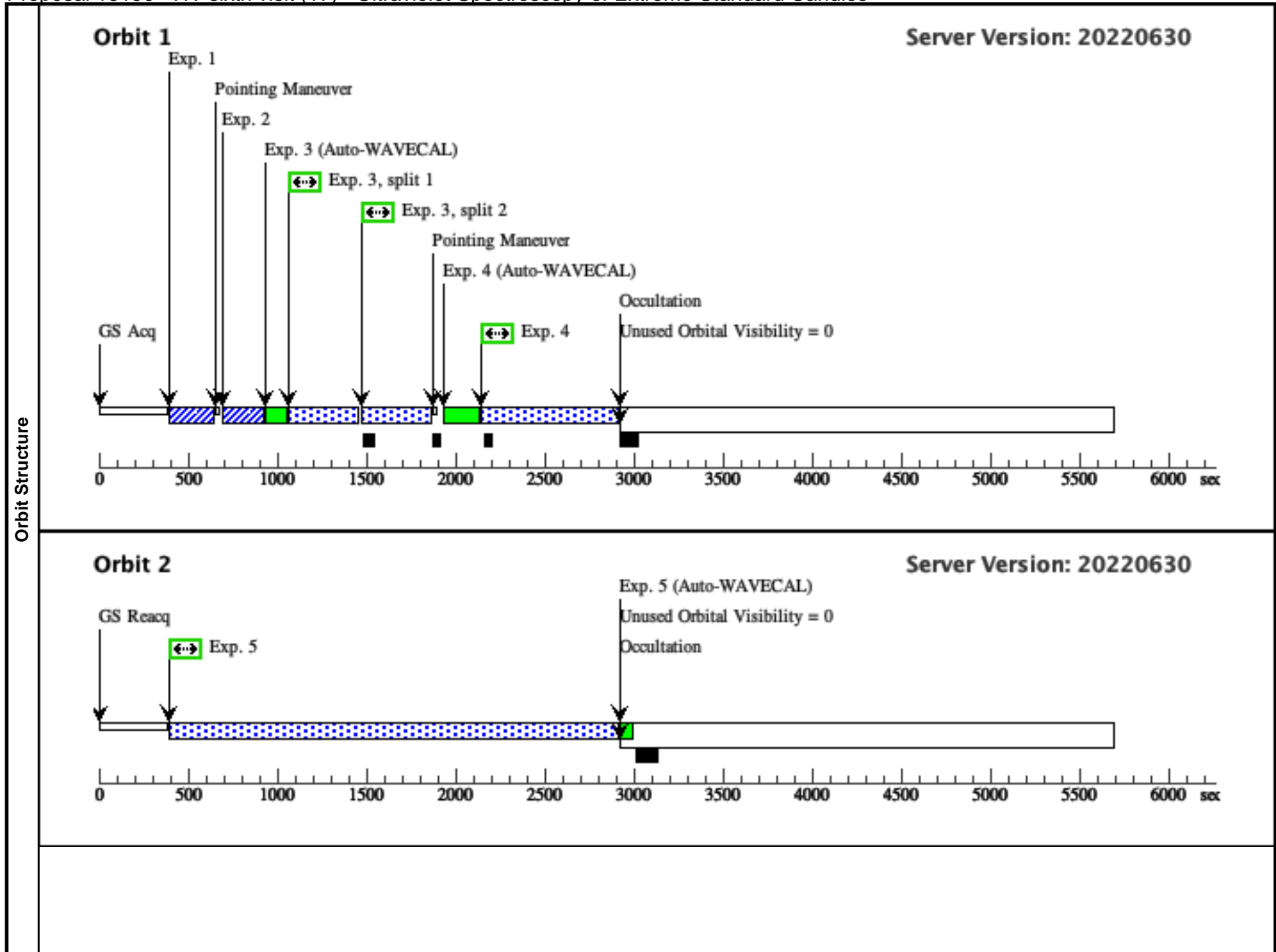


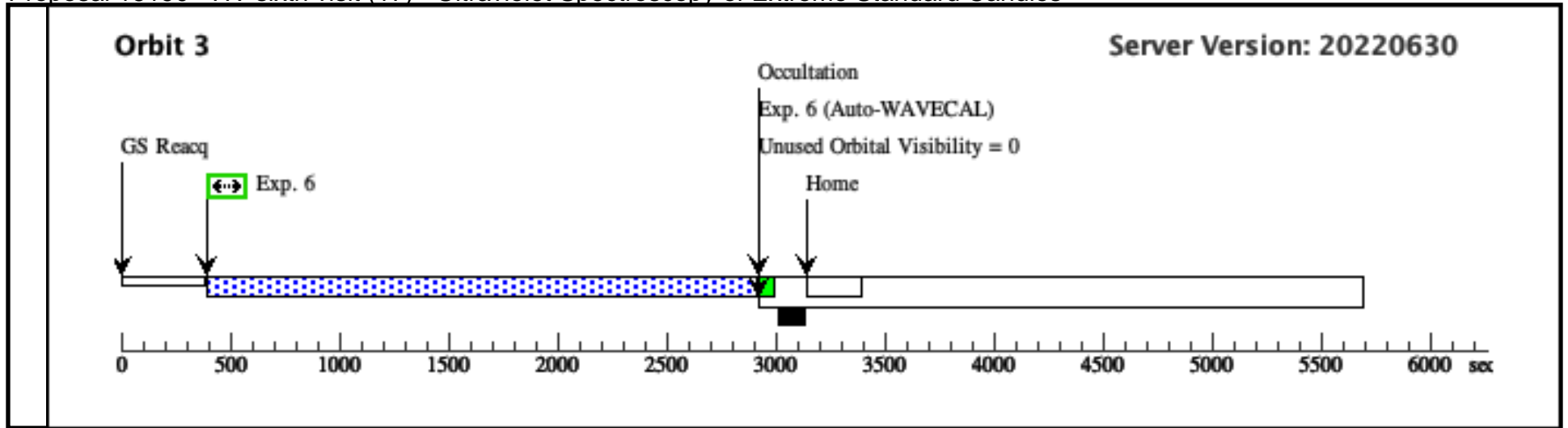


Proposal 16190 - HV sixth visit (17) - Ultraviolet Spectroscopy of Extreme Standard Candles

Mon Oct 03 15:01:40 GMT 2022

Visit	Proposal 16190, HV sixth visit (17), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: SCHED 100%; BETWEEN 22-MAY-2022:00:00:00 AND 30-MAY-2022:00:00:00									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(5)	SN2022HRS-HV	RA: 12 43 34.3500 (190.8931250d) Dec: +11 34 36.00 (11.57667d) Equinox: J2000		V=14.51+/-0.05	Reference Frame: ICRS			
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	acq (1745627)	(5) SN2022HRS-HV	STIS/CCD, ACQ, F28X50LP	MIRROR				6 Secs (6 Secs)	
									[==>]	[1]
	2	acq/peak (1745622)	(5) SN2022HRS-HV	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				1 Secs (1 Secs)	
									[==>]	[1]
	3	nuvopt-stis (1745616)	(5) SN2022HRS-HV	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (708 Secs)	
									[==>354.0 Secs (Split 1)] [==>354.0 Secs (Split 2)]	[1]
4	nuv-mama (1745617)	(5) SN2022HRS-HV	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (754 Secs)		
								[==>754.0 Secs]	[1]	
5	nuv-mama2 (1745617)	(5) SN2022HRS-HV	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2507 Secs)		
								[==>2507.0 Secs]	[2]	
6	nuv-mama3 (1745617)	(5) SN2022HRS-HV	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2507 Secs)		
								[==>2507.0 Secs]	[3]	

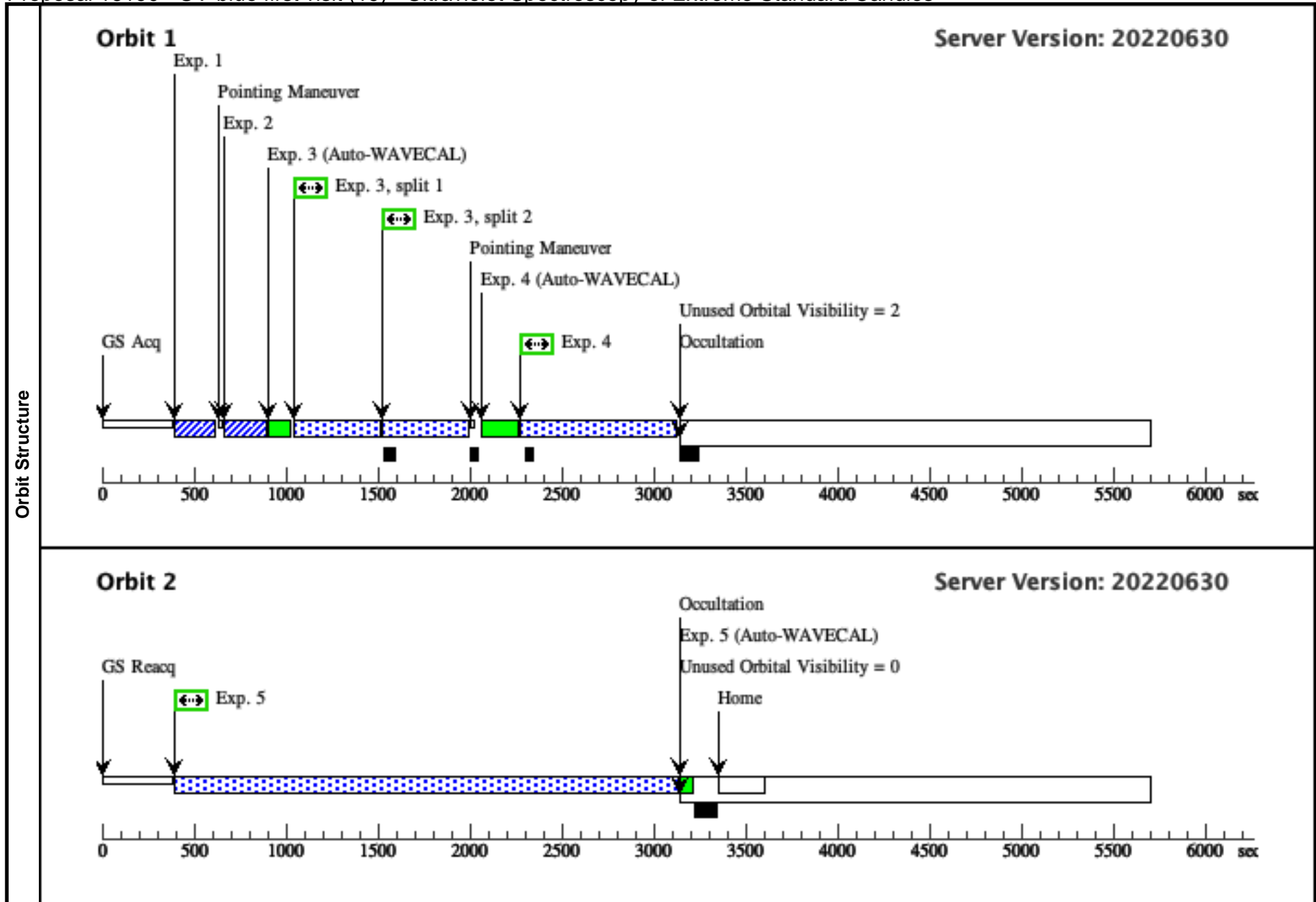




Proposal 16190 - UV-blue first visit (19) - Ultraviolet Spectroscopy of Extreme Standard Candles

Mon Oct 03 15:01:40 GMT 2022

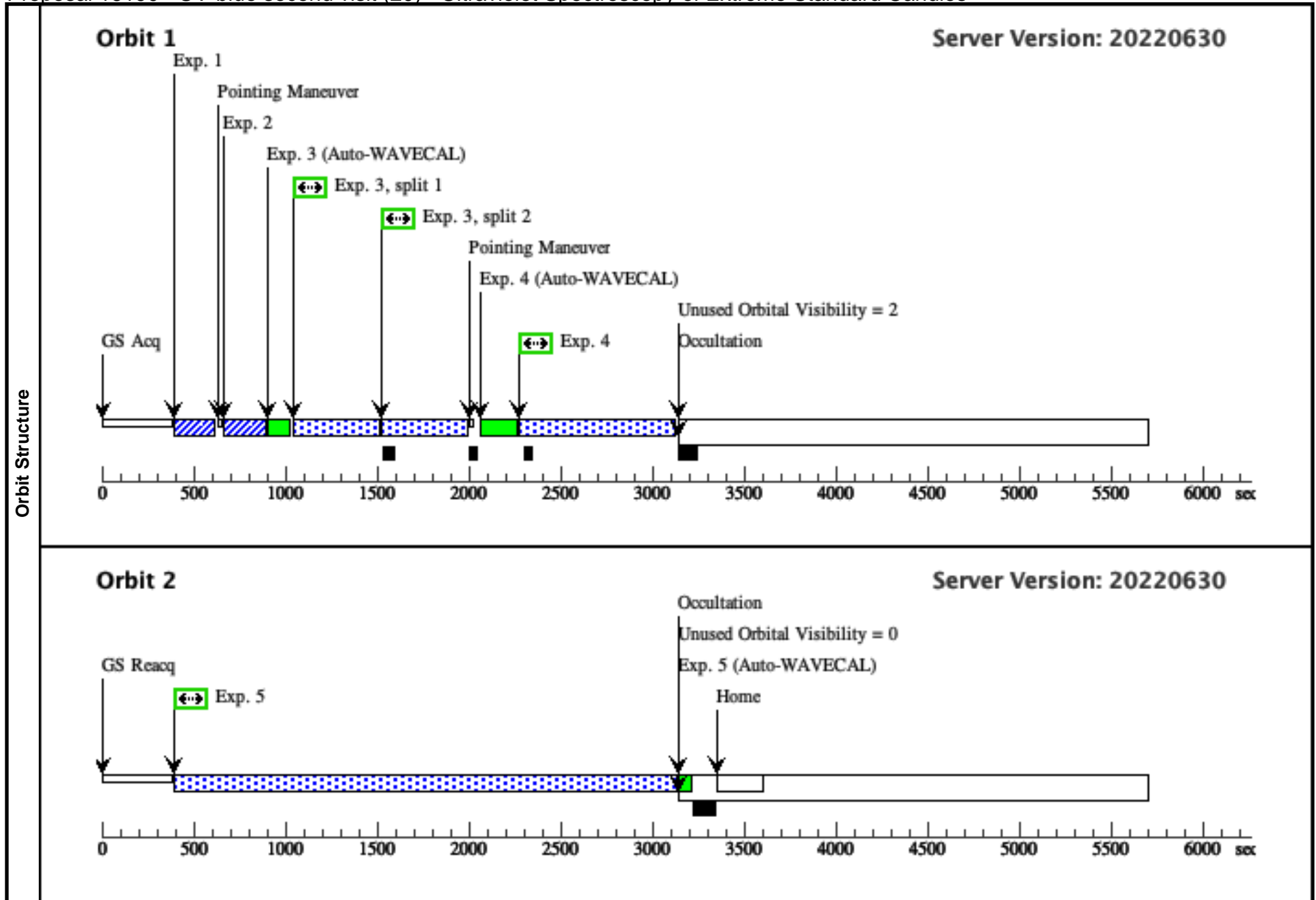
Visit	Proposal 16190, UV-blue first visit (19), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: ON HOLD ; TOO RESPONSE TIME 3.0D <i>On Hold Comments: ToO trigger</i>									
	Generic Targets	#	Name	Criteria	Description					
		(4)	RARE-UVBLUE-SN-IA	new UV-blue SN						
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	acq (1452518)	(4) RARE-UVBLUE -SN-IA	STIS/CCD, ACQ, F28X50LP	MIRROR				0.3 Secs (0.3 Secs) [==>]	[1]
	2	acq/peak (1452529)	(4) RARE-UVBLUE -SN-IA	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				1 Secs (1 Secs) [==>]	[1]
	3	nuvopt-stis (1452516)	(4) RARE-UVBLUE -SN-IA	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (866 Secs) [==>433.0 Secs (Split 1)] [==>433.0 Secs (Split 2)]	[1]
	4	nuv-mama (1452493)	(4) RARE-UVBLUE -SN-IA	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (833 Secs) [==>833.0 Secs]	[1]
	5	nuv-mama2 (1452493)	(4) RARE-UVBLUE -SN-IA	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2722 Secs) [==>2722.0 Secs]	[2]



Proposal 16190 - UV-blue second visit (20) - Ultraviolet Spectroscopy of Extreme Standard Candles

Mon Oct 03 15:01:40 GMT 2022

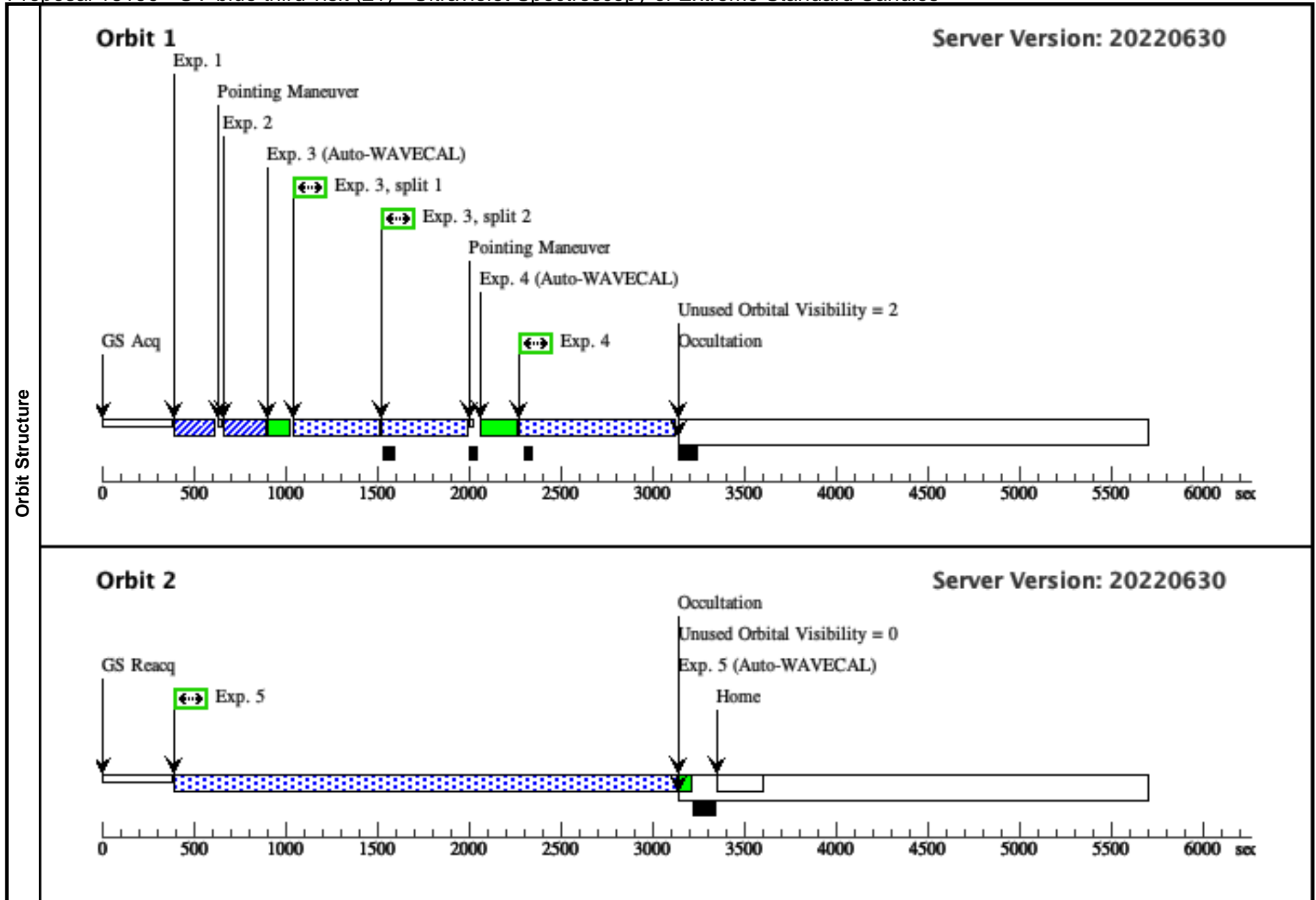
Visit	Proposal 16190, UV-blue second visit (20), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: AFTER 19 BY 2 D TO 3 D; ON HOLD <i>On Hold Comments: ToO trigger</i>									
	Generic Targets	#	Name	Criteria	Description					
	(4)	RARE-UVBLUE-SN-IA	new UV-blue SN							
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	acq (1452518)	(4) RARE-UVBLUE -SN-IA	STIS/CCD, ACQ, F28X50LP	MIRROR				0.3 Secs (0.3 Secs) [==>]	[1]
	2	acq/peak (1452529)	(4) RARE-UVBLUE -SN-IA	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				1 Secs (1 Secs) [==>]	[1]
	3	nuvopt-stis (1452516)	(4) RARE-UVBLUE -SN-IA	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (866 Secs) [==>433.0 Secs (Split 1)] [==>433.0 Secs (Split 2)]	[1]
	4	nuv-mama (1452496)	(4) RARE-UVBLUE -SN-IA	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (833 Secs) [==>833.0 Secs]	[1]
	5	nuv-mama2 (1452496)	(4) RARE-UVBLUE -SN-IA	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2722 Secs) [==>2722.0 Secs]	[2]



Proposal 16190 - UV-blue third visit (21) - Ultraviolet Spectroscopy of Extreme Standard Candles

Mon Oct 03 15:01:40 GMT 2022

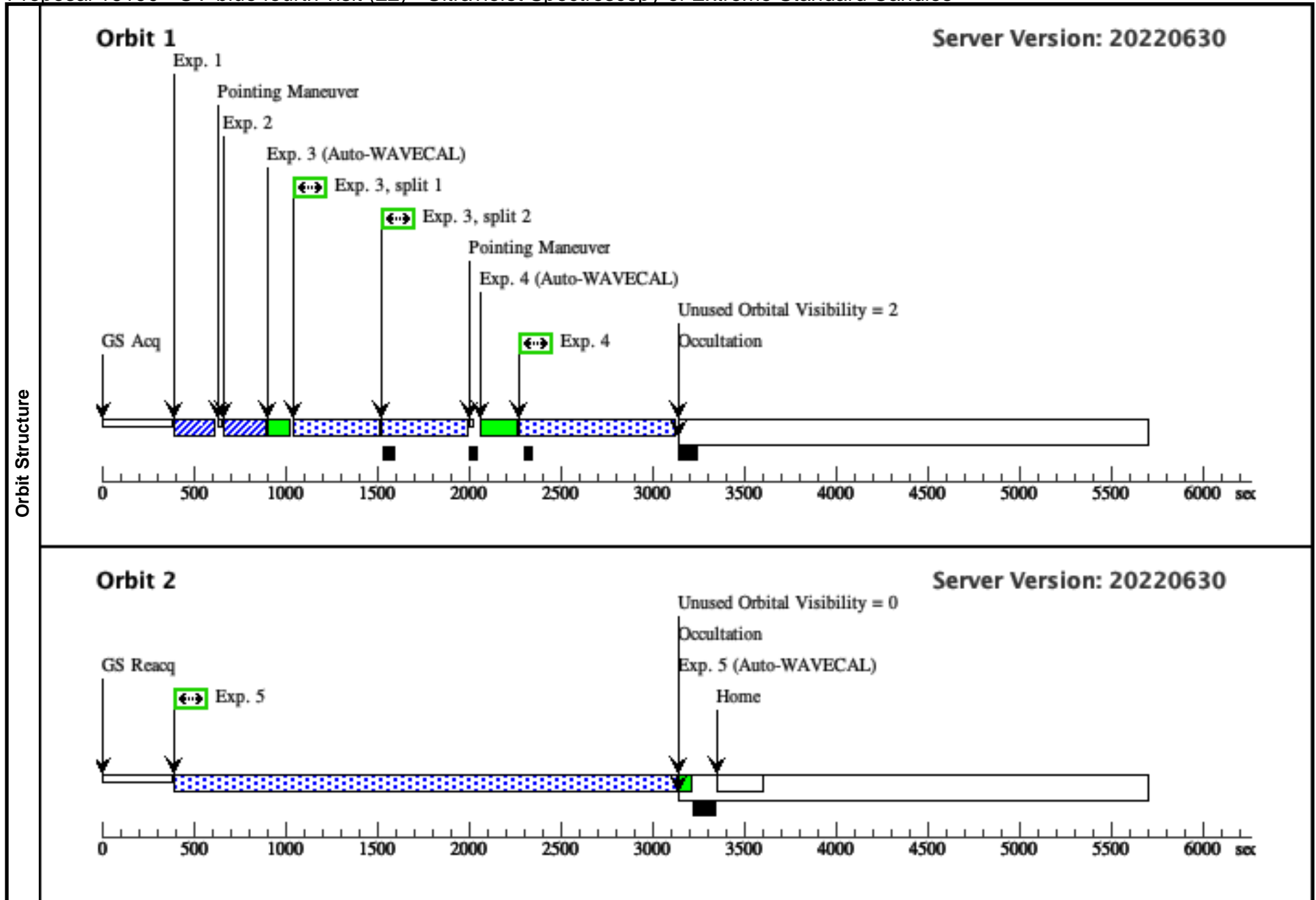
Visit	Proposal 16190, UV-blue third visit (21), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: AFTER 20 BY 2 D TO 3 D; ON HOLD <i>On Hold Comments: ToO trigger</i>									
	Generic Targets	#	Name	Criteria	Description					
	(4)	RARE-UVBLUE-SN-IA	new UV-blue SN							
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	acq (1452518)	(4) RARE-UVBLUE -SN-IA	STIS/CCD, ACQ, F28X50LP	MIRROR				0.3 Secs (0.3 Secs) [==>]	[1]
	2	acq/peak (1452529)	(4) RARE-UVBLUE -SN-IA	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				1 Secs (1 Secs) [==>]	[1]
	3	nuvopt-stis (1452516)	(4) RARE-UVBLUE -SN-IA	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (866 Secs) [==>433.0 Secs (Split 1)] [==>433.0 Secs (Split 2)]	[1]
	4	nuv-mama (1452501)	(4) RARE-UVBLUE -SN-IA	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (833 Secs) [==>833.0 Secs]	[1]
	5	nuv-mama2 (1452501)	(4) RARE-UVBLUE -SN-IA	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2722 Secs) [==>2722.0 Secs]	[2]



Proposal 16190 - UV-blue fourth visit (22) - Ultraviolet Spectroscopy of Extreme Standard Candles

Mon Oct 03 15:01:40 GMT 2022

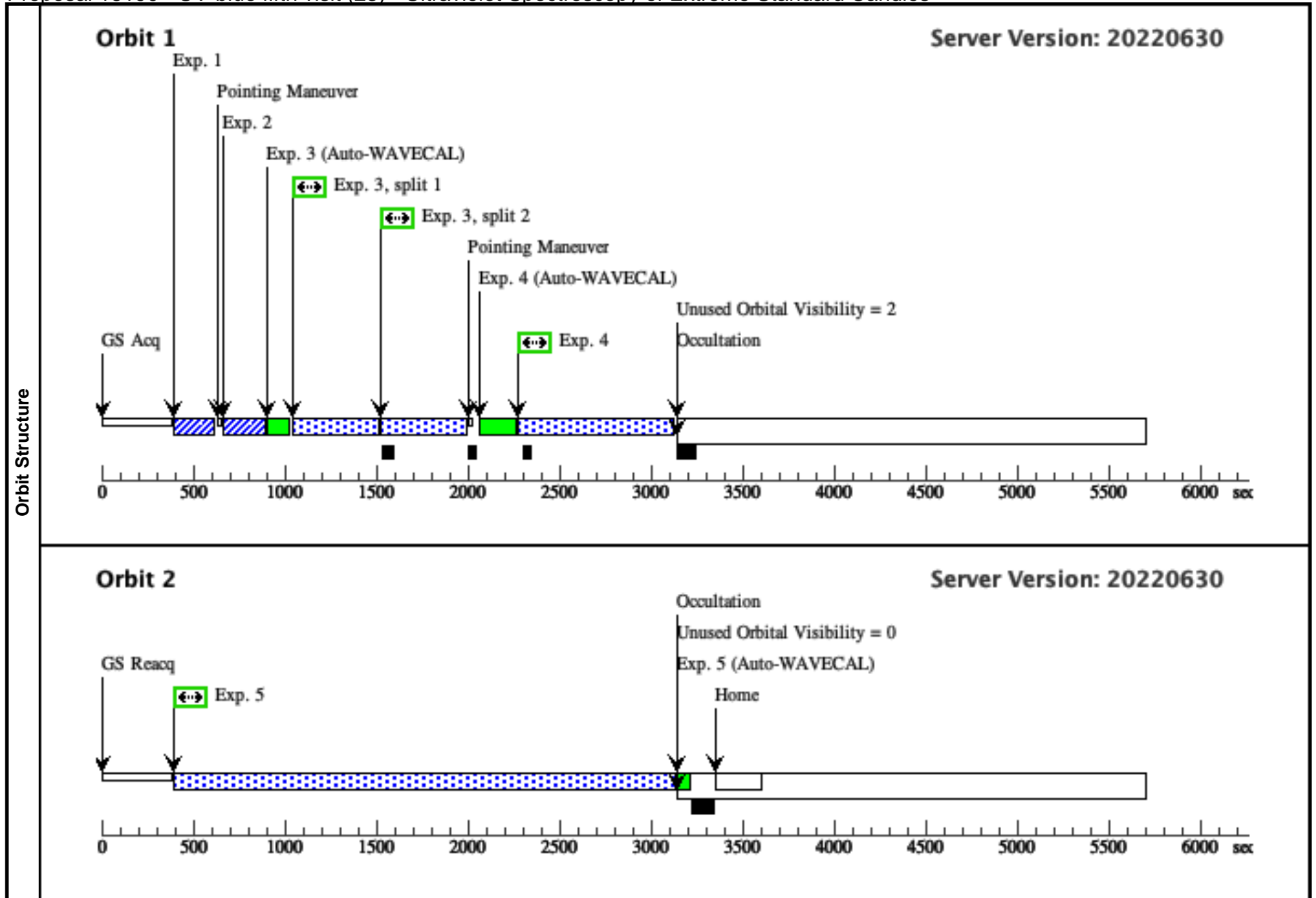
Visit	Proposal 16190, UV-blue fourth visit (22), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: AFTER 21 BY 2 D TO 3 D; ON HOLD <i>On Hold Comments: ToO trigger</i>									
	Generic Targets	#	Name	Criteria	Description					
	(4)	RARE-UVBLUE-SN-IA	new UV-blue SN							
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	acq (1452518)	(4) RARE-UVBLUE -SN-IA	STIS/CCD, ACQ, F28X50LP	MIRROR				0.3 Secs (0.3 Secs) [==>]	[1]
	2	acq/peak (1452529)	(4) RARE-UVBLUE -SN-IA	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				1 Secs (1 Secs) [==>]	[1]
	3	nuvopt-stis (1452510)	(4) RARE-UVBLUE -SN-IA	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (866 Secs) [==>433.0 Secs (Split 1)] [==>433.0 Secs (Split 2)]	[1]
	4	nuv-mama (1452503)	(4) RARE-UVBLUE -SN-IA	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (833 Secs) [==>833.0 Secs]	[1]
	5	nuv-mama2 (1452503)	(4) RARE-UVBLUE -SN-IA	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2722 Secs) [==>2722.0 Secs]	[2]



Proposal 16190 - UV-blue fifth visit (23) - Ultraviolet Spectroscopy of Extreme Standard Candles

Mon Oct 03 15:01:40 GMT 2022

Visit	Proposal 16190, UV-blue fifth visit (23), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: AFTER 22 BY 4 D TO 6 D; ON HOLD <i>On Hold Comments: ToO trigger</i>									
	Generic Targets	#	Name	Criteria	Description					
		(4)	RARE-UVBLUE-SN-IA	new UV-blue SN						
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	acq (1452518)	(4) RARE-UVBLUE -SN-IA	STIS/CCD, ACQ, F28X50LP	MIRROR				0.3 Secs (0.3 Secs)	
									[==>]	[1]
	2	acq/peak (1452529)	(4) RARE-UVBLUE -SN-IA	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				1 Secs (1 Secs)	
									[==>]	[1]
	3	nuvopt-stis (1452510)	(4) RARE-UVBLUE -SN-IA	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (866 Secs)	
								[==>433.0 Secs (Split 1)] [==>433.0 Secs (Split 2)]	[1]	
4	nuv-mama (1452503)	(4) RARE-UVBLUE -SN-IA	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (833 Secs)		
								[==>833.0 Secs]	[1]	
5	nuv-mama2 (1452503)	(4) RARE-UVBLUE -SN-IA	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2722 Secs)		
								[==>2722.0 Secs]	[2]	



Proposal 16190 - UV-blue sixth visit (24) - Ultraviolet Spectroscopy of Extreme Standard Candles

Mon Oct 03 15:01:40 GMT 2022

Visit	Proposal 16190, UV-blue sixth visit (24), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: AFTER 23 BY 4 D TO 6 D; ON HOLD <i>On Hold Comments: ToO trigger</i>									
	Generic Targets	#	Name	Criteria	Description					
	(4)	RARE-UVBLUE-SN-IA	new UV-blue SN							
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	acq (1452518)	(4) RARE-UVBLUE -SN-IA	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	acq/peak (1452529)	(4) RARE-UVBLUE -SN-IA	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				1 Secs (1 Secs) [==>]	[1]
	3	nuvopt-stis (1452510)	(4) RARE-UVBLUE -SN-IA	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				800 Secs (864 Secs) [==>432.0 Secs (Split 1)] [==>432.0 Secs (Split 2)]	[1]
	4	nuv-mama (1452503)	(4) RARE-UVBLUE -SN-IA	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				800 Secs (832 Secs) [==>832.0 Secs]	[1]
	5	nuv-mama2 (1452503)	(4) RARE-UVBLUE -SN-IA	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				3000 Secs (2722 Secs) [==>2722.0 Secs]	[2]

