



16166 - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essential Ultraviolet Stellar Characterization for Guaranteed JWST Transiting Planet Targets

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	(1) HAT-P-26	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	3	07-Jul-2022 11:00:19.0	yes

Proposal 16166 (STScI Edit Number: 2, Created: Thursday, July 7, 2022 at 10:00:52 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>
02	(1) HAT-P-26	STIS/CCD STIS/FUV-MAMA	3	07-Jul-2022 11:00:21.0	yes
03	(2) BD+37-4734B (16) HAT-P-1-OFFSET2	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	07-Jul-2022 11:00:23.0	yes
04	(2) BD+37-4734B (16) HAT-P-1-OFFSET2	STIS/CCD STIS/FUV-MAMA	3	07-Jul-2022 11:00:24.0	yes
05	(3) L-98-59	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	3	07-Jul-2022 11:00:26.0	yes
06	(3) L-98-59	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	3	07-Jul-2022 11:00:28.0	yes
07	(4) WASP-43	STIS/CCD STIS/NUV-MAMA	2	07-Jul-2022 11:00:30.0	yes
08	(5) WASP-52	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	07-Jul-2022 11:00:32.0	yes
09	(5) WASP-52	STIS/CCD STIS/FUV-MAMA	4	07-Jul-2022 11:00:34.0	yes
10	(6) HD-149026	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	07-Jul-2022 11:00:36.0	yes
Z1	(6) HD-149026	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	07-Jul-2022 11:00:37.0	yes
11	(6) HD-149026	STIS/CCD STIS/FUV-MAMA	2	07-Jul-2022 11:00:38.0	yes

Proposal 16166 (STScI Edit Number: 2, Created: Thursday, July 7, 2022 at 10:00:52 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>
12	(7) BD-07-436A	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	07-Jul-2022 11:00:40.0	yes
13	(7) BD-07-436A	STIS/CCD STIS/FUV-MAMA	1	07-Jul-2022 11:00:41.0	yes
14	(8) HAT-P-12	STIS/CCD STIS/NUV-MAMA	4	07-Jul-2022 11:00:42.0	yes
15	(9) WASP-17	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	5	07-Jul-2022 11:00:44.0	yes
16	(10) BD-03-2978	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	07-Jul-2022 11:00:46.0	yes
17	(15) TOI-193NEWCOORDS	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	07-Jul-2022 11:00:47.0	yes
18	(12) LP-791-18	STIS/CCD STIS/NUV-MAMA	3	07-Jul-2022 11:00:49.0	yes
21	(12) LP-791-18	STIS/CCD	1	07-Jul-2022 11:00:49.0	yes
22	(13) L-678-39	COS/FUV COS/NUV	2	07-Jul-2022 11:00:50.0	yes
20	(13) L-678-39	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	07-Jul-2022 11:00:51.0	yes

59 Total Orbits Used

ABSTRACT

JWST will launch during HST cycle 28 and begin an unprecedented era in atmospheric characterization for all types of exoplanets. Atmospheric spectroscopy of warm rocky planets, sub-Neptune, and Jupiter-mass planets will be obtained through a robust set of guaranteed transiting planet observations (the JWST ERS and GTO programs). To accurately model and interpret observations of these planets' atmospheres, we must understand the high-energy SED of their host stars: FUV and NUV-driven photochemistry shapes an atmosphere's molecular abundances and the formation of hazes, EUV irradiation can erode a planet's gaseous envelope, and flares can affect long term stability.

A number of recent surveys have used HST's UV capabilities to characterize the energetic irradiance spectra across a range of stellar masses, ages, and activity levels. While these surveys have proven invaluable for predicting photochemical tracers and evolution of an exoplanet's atmosphere, they have also shown scatter in behavior and irradiance properties for stars of similar type. As a result, direct UV observations remain the gold standard for understanding the effects of the stellar irradiance on a specific exoplanet. We propose to obtain temporally-resolved UV (1150-3200 Ang) stellar spectroscopy of the 13 JWST guaranteed time targets with no UV characterization data in the HST archive. Our proposed observations will provide the UV context necessary to determine the likelihood of atmospheric formation and retention, the identification and interpretation of atmospheric chemistry, and the impacts of stellar activity on the exoplanet atmospheric stability.

OBSERVING DESCRIPTION

A complete census of the UV emission incident on the exoplanets ideally comprises spectral coverage from 1150-3100 Å, plus X-ray observations to allow a complete estimation of the unobservable EUV component (100 - 911Å). To obtain efficient observations of the 13 targets, we will rely on STIS G140L and G230L to cover the FUV and NUV at moderate spectral resolution ($R \sim 500-1000$). FUV emission (1150Å - 1700 Å) from Ly and other strong chromospheric lines (CII, SiIII, SiIV, CIV, etc.) are particularly interesting because these lines provide constraints on the Lyman continuum/EUV (100 - 900 Å) irradiance in these systems (Linsky et al. 2014). At NUV wavelengths, we will use STIS G230L (1800 Å - 3100 Å) to cover the NUV continuum, Fe II 2400 and 2600, and Mg II 2800) HST is the only active observing facility with a spectroscopic capability at FUV and NUV wavelengths and is required for the proposed program.

For targets that are sufficiently bright, we will also observe using G140M with the 5200 0:200 slit to measure the Ly α for our targets (the 0.200 slit is chosen to maximize throughput and mitigate pointing drift). Ly α experiences absorption from the intervening local ISM and the line must be reconstructed to provide a reliable measure of the local Ly- α field that dominates the FUV radiation field from cool stars (France et al. 2012). Medium-resolution ($R \sim 10,000$; G140M) observations can produce high quality reconstructed measurements of the local Ly- α flux (France et al. 2013; Youngblood et al. 2016). For those targets where Ly- α observations are infeasible, we

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will rely on scaling relations (based on MgII, for example) to estimate the HI emission (Wood et al. 2005; Youngblood et al. 2017). Finally, in order to calibrate the UV data to visible/IR photospheric models and the ground-based spectra, we will also acquire short optical observations with the STIS G430L.

Exposure Time Calculations: We estimated exposure times based on the minimum amount of time required to achieve S/N > 10 per resolution element in the characteristic line and continuum regions: Ly-alpha (STIS G140M, meas = 1216.0 A), C II (STIS G140L), and NUV continuum (STIS G230L, 2820 A, longward of MgII). We estimated S/N > 20 in the optical (STIS G430L). We create simulated spectra for exposure time estimates by taking stars of similar spectral types from the HST archive (Procyon, alpha Cen A, eps Eri, HD 85512, and GJ 832), scaled to the V magnitude of the target star.

All targets were run through the APT Bright Object Tool software. The only violations reported were cases where the target star was mis-identified as an O5V star.

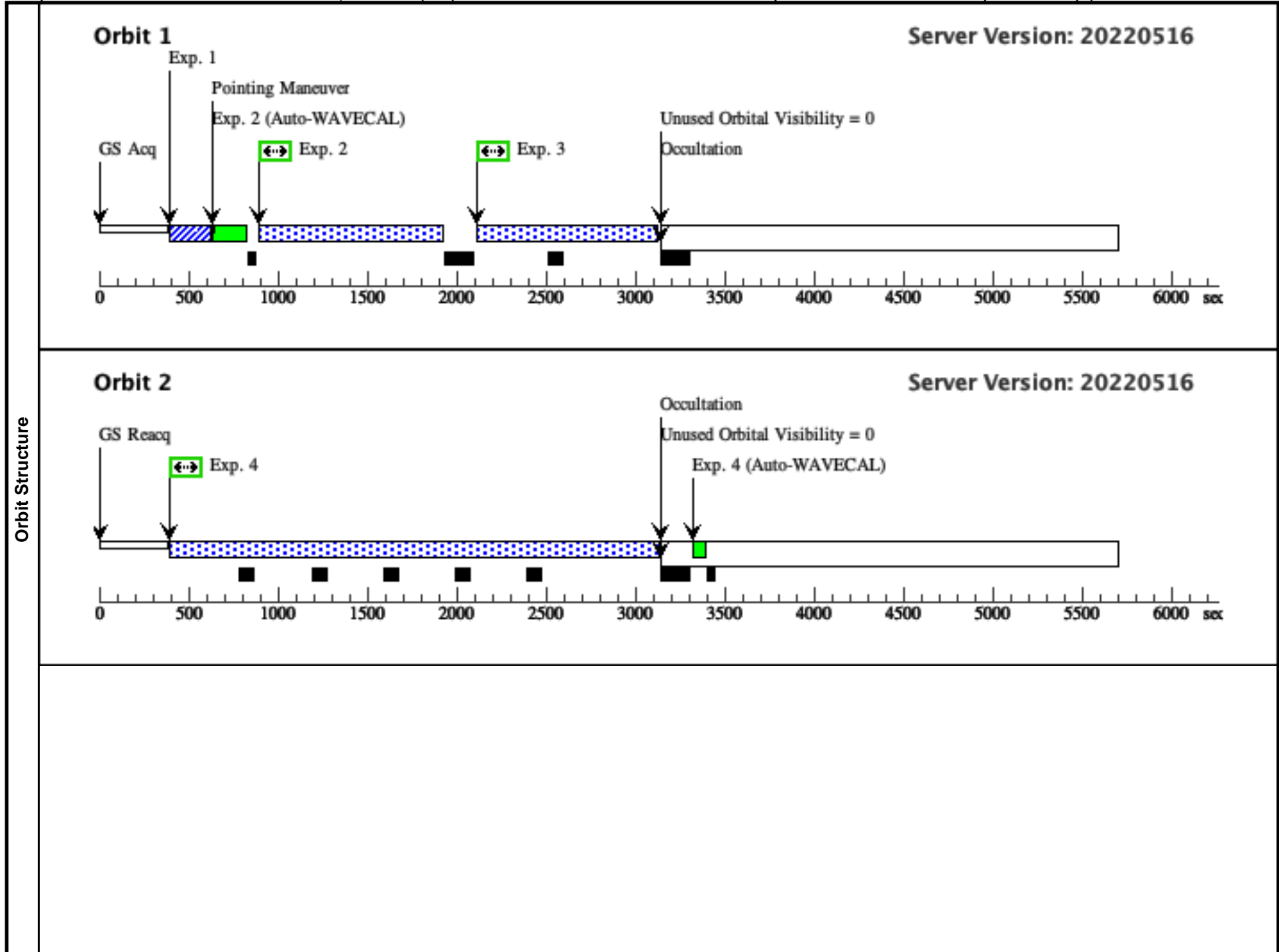
Proposal 16166 - HAT-P-26 G140L, G230L (01) - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essential Ultrav...

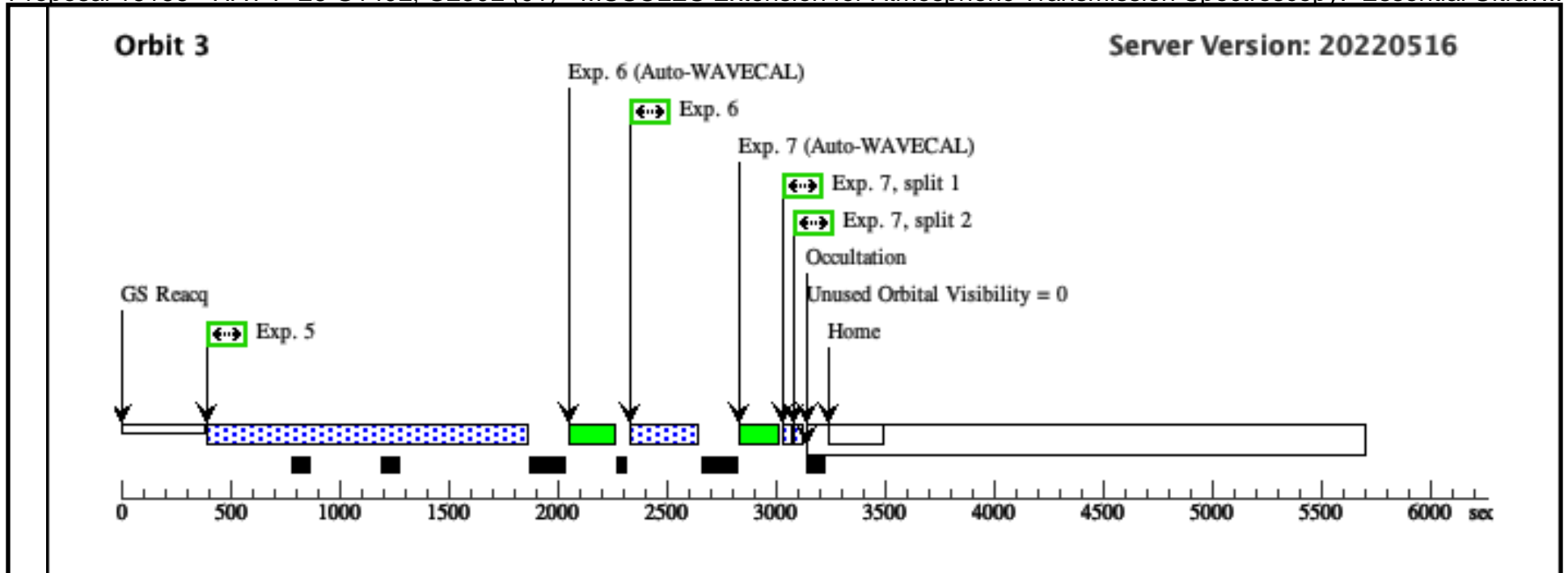
Thu Jul 07 15:00:52 GMT 2022

Visit	Proposal 16166, HAT-P-26 G140L, G230L (01), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	HAT-P-26	RA: 14 12 37.5722 (213.1565508d) Dec: +04 03 33.90 (4.05942d) Equinox: J2000	Proper Motion RA: 0.002528944681445702 sec of time/yr Proper Motion Dec: -0.14289099997313315 arcsec/yr Epoch of Position: 2015.5	V=11.76+/-0.1	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						
Category=EXT-STAR						
Description=[K V-IV]						
Extended=NO						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	HAT-P-26_ vis1_acq (STIS.ta.144 4691)	(1) HAT-P-26	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT				0.1 Secs (0.1 Secs) [==>]	[1]
	2	HAT-P-26_ vis1a_G140 L (STIS.sp.14 12154)	(1) HAT-P-26	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=89 0				1016 Secs (1016 Secs) [==>]	[1]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										
	3	HAT-P-26_ vis1b_G140 L (STIS.sp.14 12154)	(1) HAT-P-26	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=40 0				1000 Secs (1000 Secs) [==>]	[1]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										
	4	HAT-P-26_ vis1c_G140 L (STIS.sp.14 12154)	(1) HAT-P-26	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=40 0				2722 Secs (2722 Secs) [==>]	[2]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										
	5	HAT-P-26_ vis1e_G140 L (STIS.sp.14 12154)	(1) HAT-P-26	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=40 0				1452 Secs (1452 Secs) [==>]	[3]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										
6	HAT-P-26_ vis1a_G230 L (STIS.sp.14 12472)	(1) HAT-P-26	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=20 0				300 Secs (300 Secs) [==>]	[3]	
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>											
7	HAT-P-26_ vis1a_G430 L (STIS.sp.14 45296)	(1) HAT-P-26	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A					10 Secs (10 Secs) [==>(Split 1)] [==>(Split 2)]	[3]	
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>											

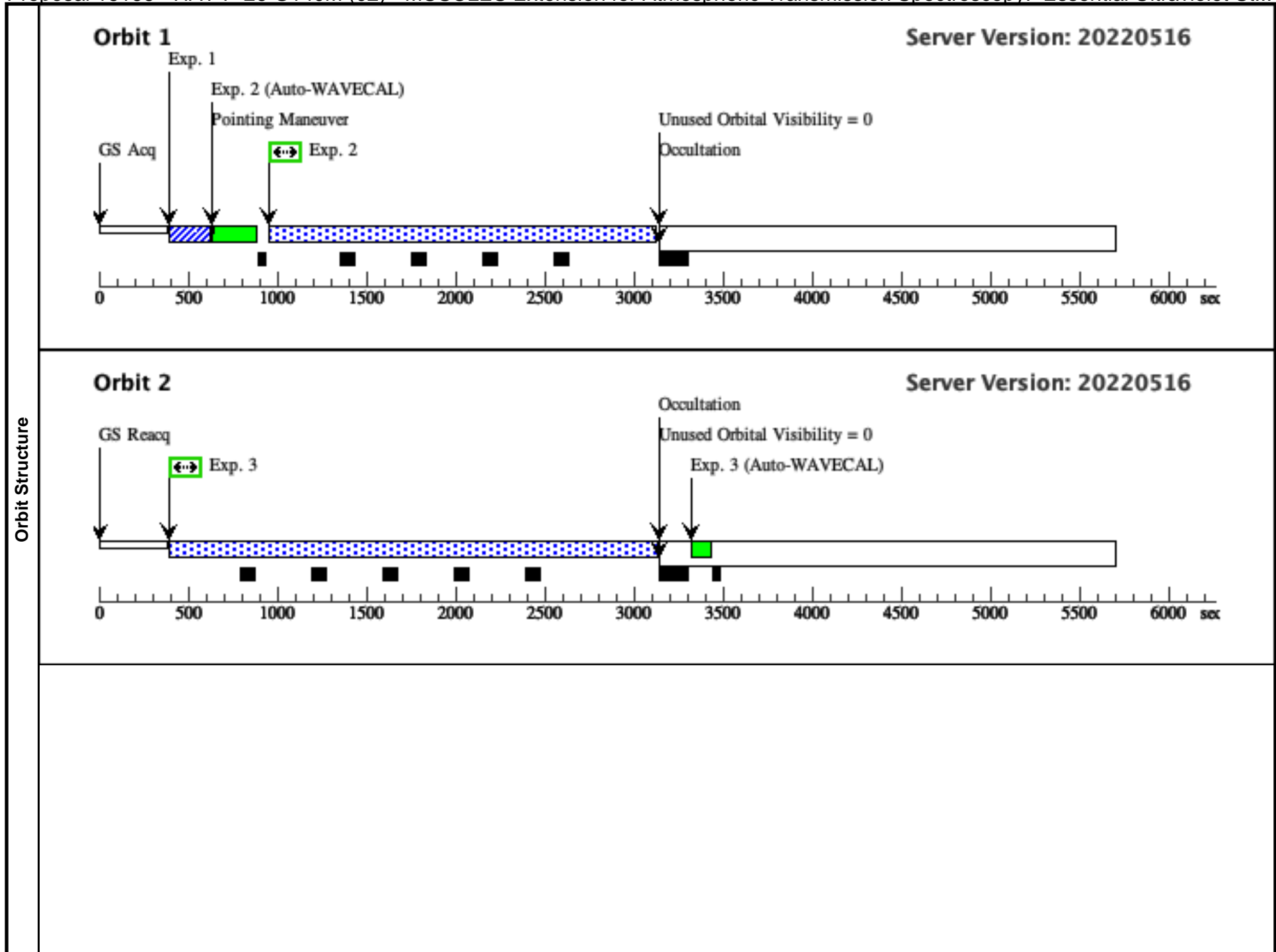


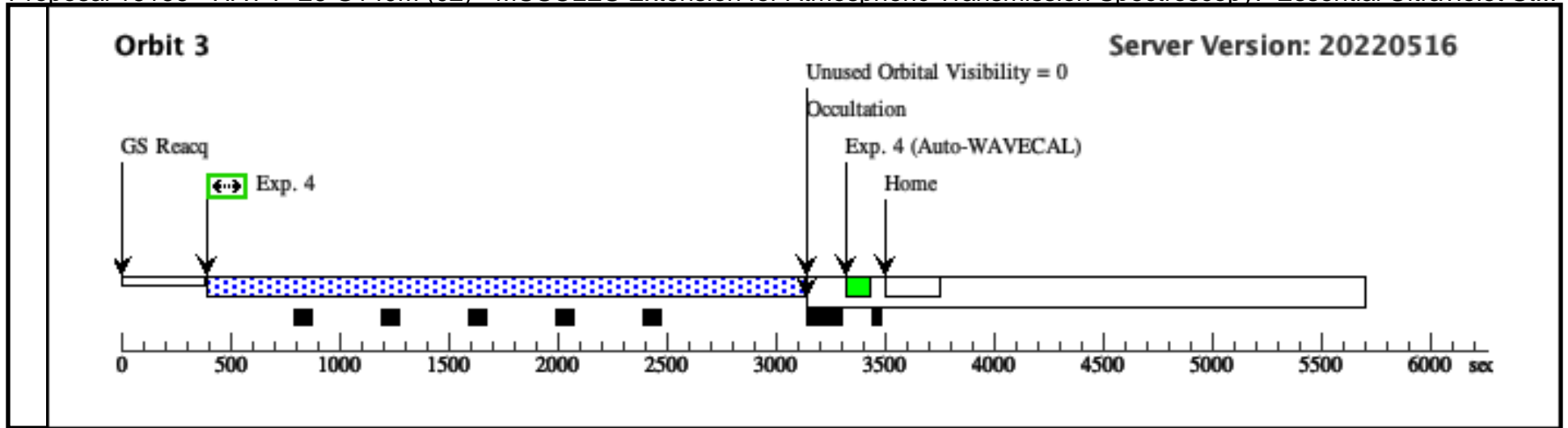


Proposal 16166 - HAT-P-26 G140M (02) - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essential Ultraviolet St...

Thu Jul 07 15:00:52 GMT 2022

Visit	Proposal 16166, HAT-P-26 G140M (02), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: GROUP 02.01 WITHIN 6D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(1)	HAT-P-26	RA: 14 12 37.5722 (213.1565508d) Dec: +04 03 33.90 (4.05942d) Equinox: J2000	Proper Motion RA: 0.002528944681445702 sec of time/yr Proper Motion Dec: -0.14289099997313315 arcsec/yr Epoch of Position: 2015.5	V=11.76+/-0.1	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=EXT-STAR Description=[K V-IV] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	HAT-P-26_ vis2_acq (STIS.ta.144 4691)	(1) HAT-P-26	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs) [==>]	[1]
	2	HAT-P-26_ vis2a_G140 M (STIS.sp.14 16143)	(1) HAT-P-26	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	BUFFER-TIME=40 0			2157 Secs (2157 Secs) [==>]	[1]
	3	HAT-P-26_ vis2b_G140 M (STIS.sp.14 16143)	(1) HAT-P-26	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	BUFFER-TIME=40 0			2720 Secs (2720 Secs) [==>]	[2]
	4	HAT-P-26_ vis2c_G140 M (STIS.sp.14 16143)	(1) HAT-P-26	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	BUFFER-TIME=40 0			2720 Secs (2720 Secs) [==>]	[3]
	<i>Comments: Factor of 2 margin added to Lyman-alpha T_exp for increased HI LyA at distance of the target.</i>									
	<i>Comments: Factor of 2 margin added to Lyman-alpha T_exp for increased HI LyA at distance of the target.</i>									

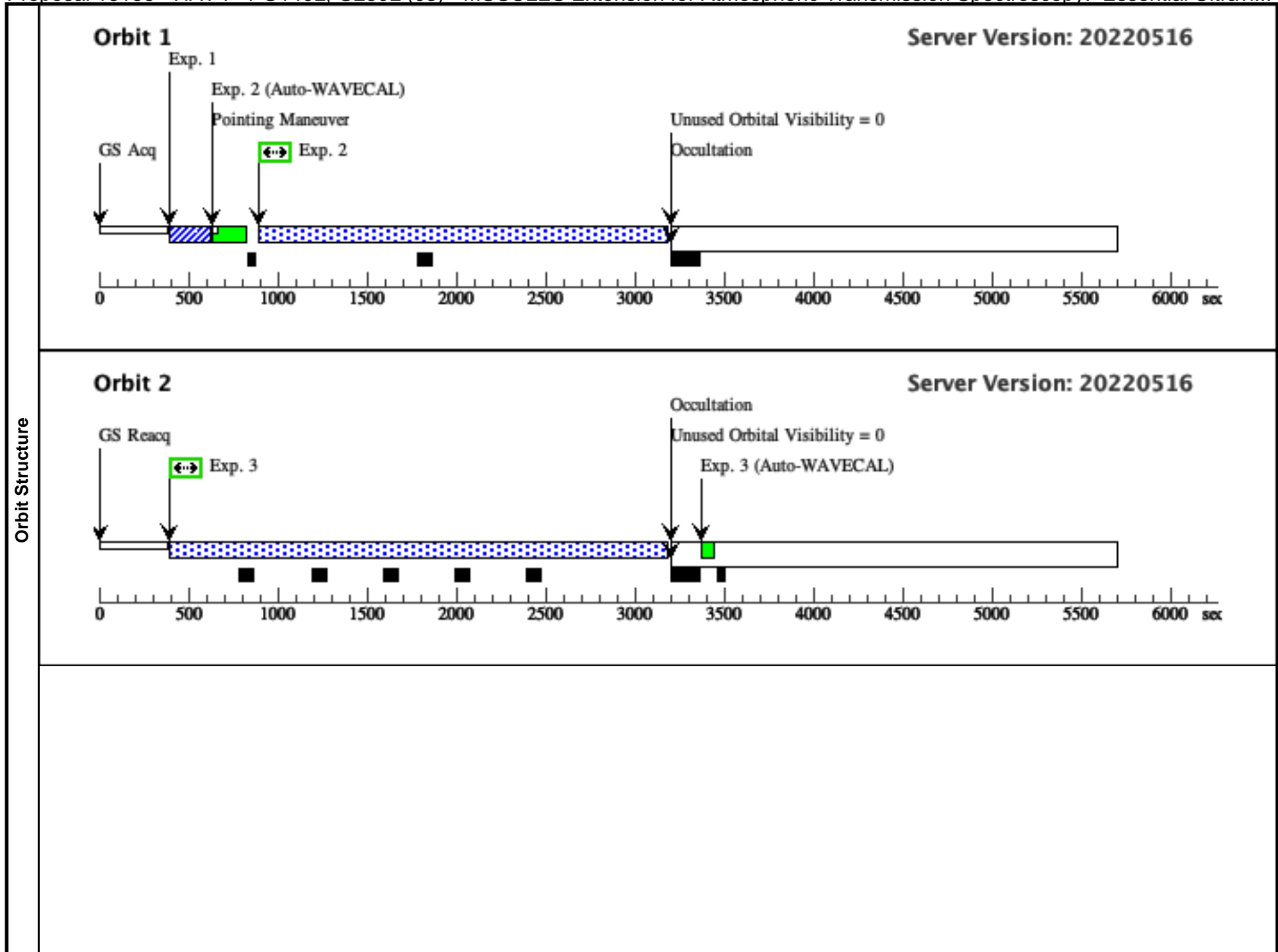


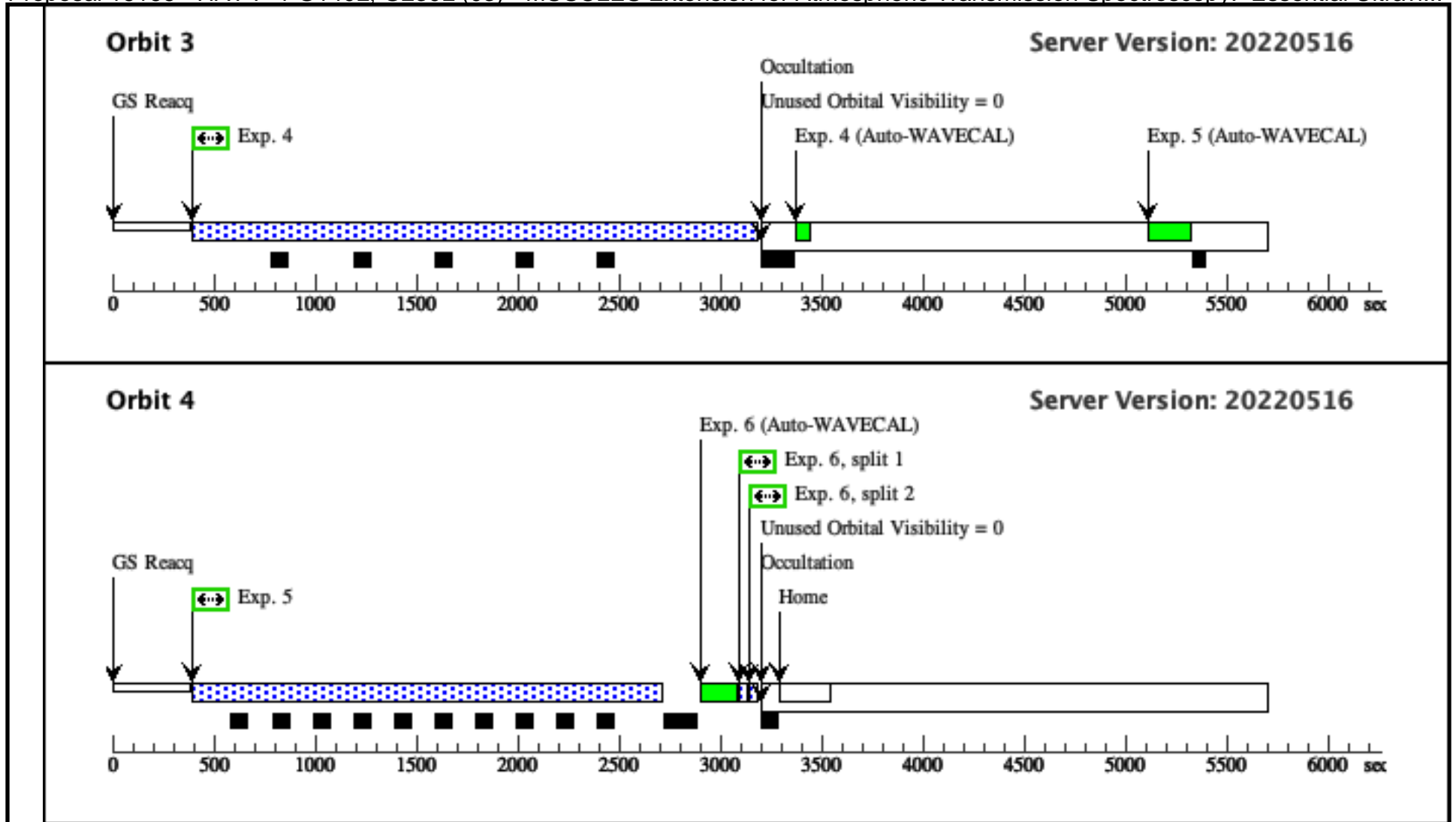


Proposal 16166 - HAT-P-1 G140L, G230L (03) - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essential Ultravi...

Thu Jul 07 15:00:52 GMT 2022

Visit	Proposal 16166, HAT-P-1 G140L, G230L (03), implementation										
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: (none)										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(2)	BD+37-4734B Alt Name1: HAT-P-1B	RA: 22 57 46.8872 (344.4453633d) Dec: +38 40 29.71 (38.67492d) Equinox: J2000	Proper Motion RA: 0.002765367218476515 sec of time/yr Proper Motion Dec: -0.041751000071599265 arcsec/yr Epoch of Position: 2015.5	V=9.87	Reference Frame: ICRS					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Close companion, ACQ issue? Category=EXT-STAR Description=[G V-IV]											
Fixed Targets	(16)	HAT-P-1-OFFSET2 Alt Name1: N2SI015118	RA: 22 57 44.5679 (344.4356996d) Dec: +38 39 55.47 (38.66541d) Equinox: J2000	Proper Motion RA: -7.227301991208225E-4 sec of time/yr Proper Motion Dec: 0.00803077 arcsec/yr Epoch of Position: 1989.75	V=15.91+/-0.1	Reference Frame: ICRS					
	<i>Comments: This object was generated by the targetselector and retrieved from the GSC 2.3 database.</i> Category=EXT-STAR Description=[F0-F2]										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	HAT-P-1_vi s1_OFFSET acq_v2 (STIS.ta.168 9706)	(16) HAT-P-1-OFFS ET2	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT	GS ACQ SCENARI O BASE1BE		0.9 Secs (0.9 Secs) [==>]	[1]	
	2	HAT-P-1_vi s1a_G140L (STIS.sp.14 24091)	(2) BD+37-4734B	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=89 0			2278 Secs (2278 Secs) [==>]	[1]	
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										
	3	HAT-P-1_vi s1c_G140L (STIS.sp.14 24091)	(2) BD+37-4734B	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=40 0			2780 Secs (2780 Secs) [==>]	[2]	
	4	HAT-P-1_vi s1d_G140L (STIS.sp.14 24091)	(2) BD+37-4734B	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=40 0			2780 Secs (2780 Secs) [==>]	[3]	
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										
5	HAT-P-1_vi s1a_G230L (STIS.sp.14 12564)	(2) BD+37-4734B	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=20 0			2303 Secs (2303 Secs) [==>]	[4]		
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>											
6	HAT-P-1_vi s1a_G430L (STIS.sp.14 45305)	(2) BD+37-4734B	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				5 Secs (5 Secs) [==>(Split 1)] [==>(Split 2)]	[4]		
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>											





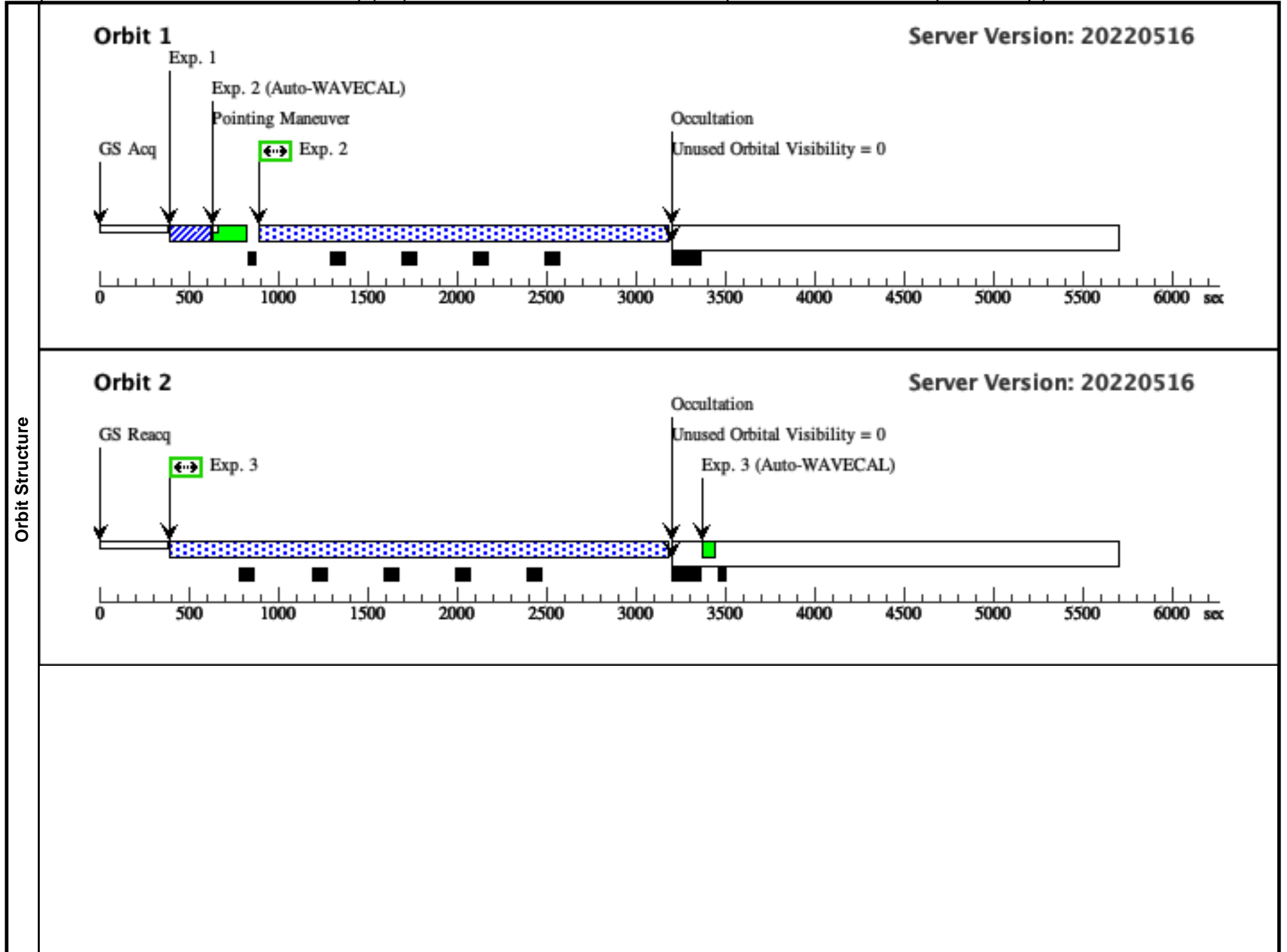
Proposal 16166 - HAT-P-1 G140Lonly (04) - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essential Ultraviolet ...

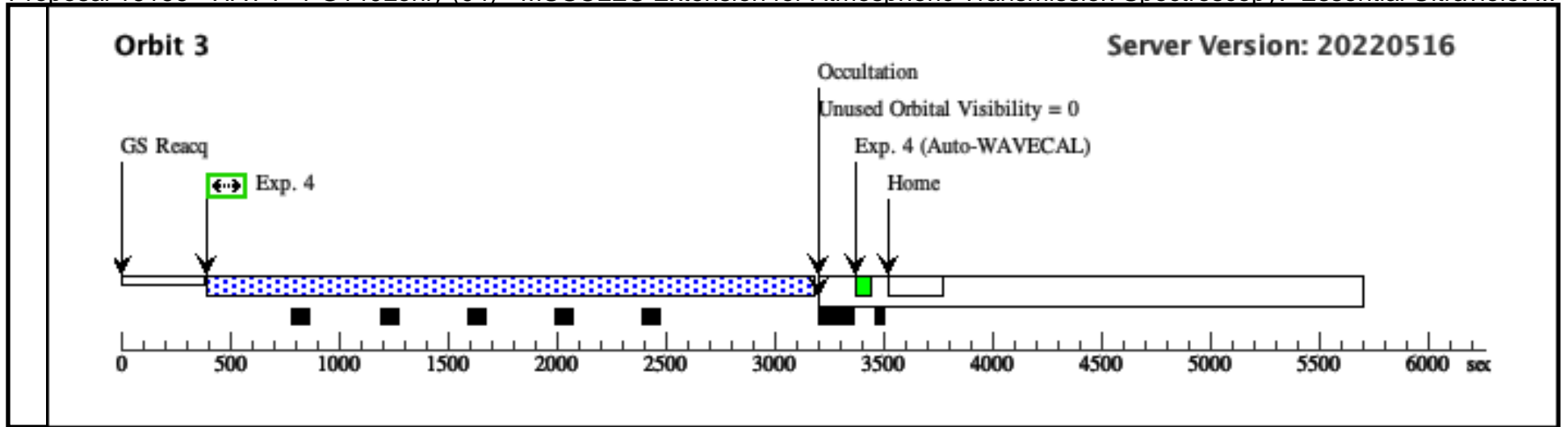
Thu Jul 07 15:00:53 GMT 2022

Visit	Proposal 16166, HAT-P-1 G140Lonly (04), implementation				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: GROUP 04.03 WITHIN 6D				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	BD+37-4734B Alt Name1: HAT-P-1B	RA: 22 57 46.8872 (344.4453633d) Dec: +38 40 29.71 (38.67492d) Equinox: J2000	Proper Motion RA: 0.002765367218476515 sec of time/yr Proper Motion Dec: -0.041751000071599265 arcsec/yr Epoch of Position: 2015.5	V=9.87	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					
	<i>Close companion, ACQ issue? Category=EXT-STAR Description=[G V-IV]</i>					
(16)	HAT-P-1-OFFSET2 Alt Name1: N2SI015118	RA: 22 57 44.5679 (344.4356996d) Dec: +38 39 55.47 (38.66541d) Equinox: J2000	Proper Motion RA: -7.227301991208225E-4 sec of time/yr Proper Motion Dec: 0.00803077 arcsec/yr Epoch of Position: 1989.75	V=15.91+/-0.1	Reference Frame: ICRS	
<i>Comments: This object was generated by the targetselector and retrieved from the GSC 2.3 database.</i>						
<i>Category=EXT-STAR Description=[F0-F2]</i>						

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HAT-P-1_vi s2_OFFSET acq_v2 (STIS.ta.168 9706)	(16) HAT-P-1-OFFS ET2	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT	GS ACQ SCENARI O BASE1BE		0.9 Secs (0.9 Secs) [==>]	[1]
2	HAT-P-1_vi s2a_G140L (STIS.sp.14 24091)	(2) BD+37-4734B	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=40 0			2278 Secs (2278 Secs) [==>]	[1]
3	HAT-P-1_vi s2b_G140L (STIS.sp.14 24091)	(2) BD+37-4734B	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=40 0			2780 Secs (2780 Secs) [==>]	[2]
<i>Comments: Factor of 2 margin added to Lyman-alpha T_exp for increased HI LyA at distance of the target.</i>									
4	HAT-P-1_vi s2c_G140L (STIS.sp.14 24091)	(2) BD+37-4734B	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=40 0			2780 Secs (2780 Secs) [==>]	[3]
<i>Comments: Factor of 2 margin added to Lyman-alpha T_exp for increased HI LyA at distance of the target.</i>									

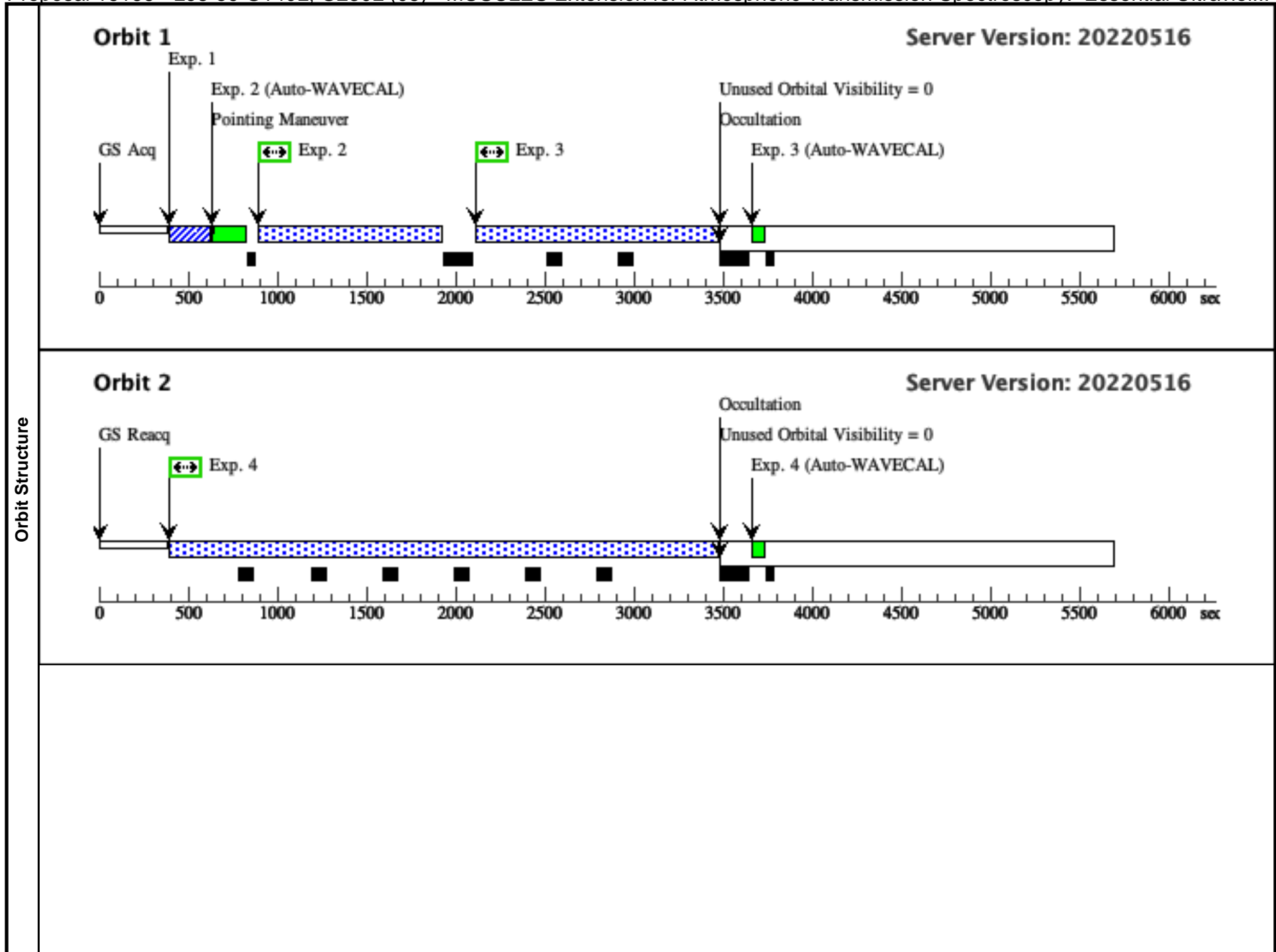


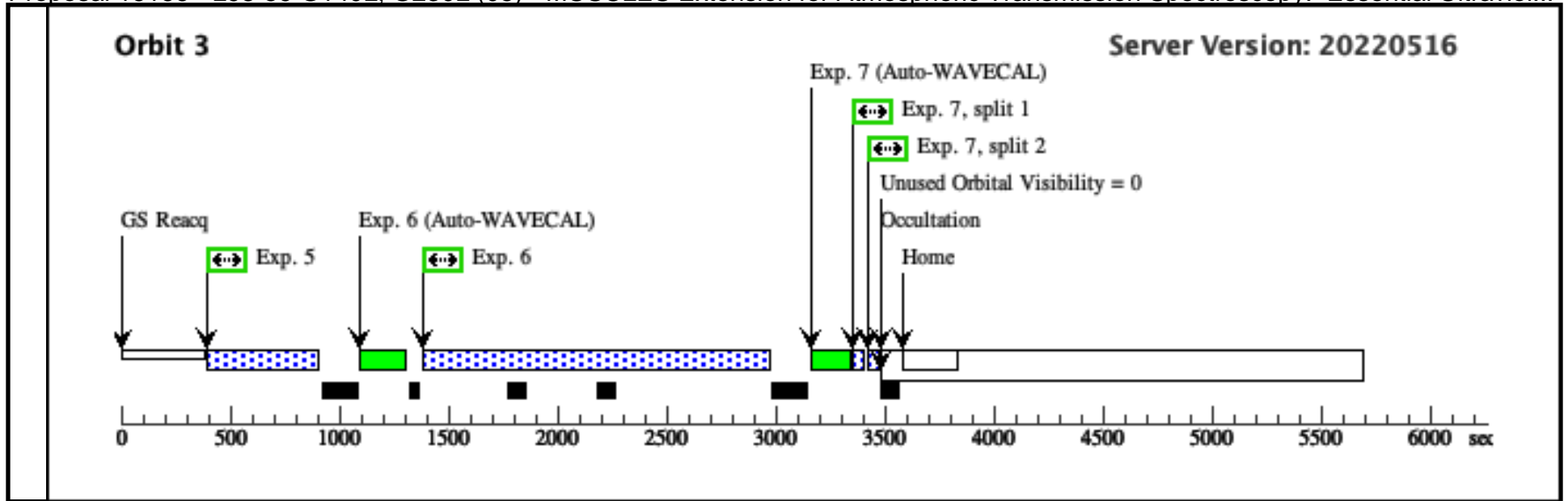


Proposal 16166 - L98-59 G140L, G230L (05) - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essential Ultraviol...

Thu Jul 07 15:00:53 GMT 2022

Visit	Proposal 16166, L98-59 G140L, G230L (05), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: (none)																																																																																																																																																					
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1	L98-59_vis1_acq (STIS.ta.144 5315)	(3) L-98-59	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs) [==>]	[1]																																																																																																																																													
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6	L98-59_vis1_a_G230L (STIS.sp.14 12560)	(3) L-98-59	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=40 0			1576 Secs (1576 Secs) [==>]	[3]																																																																																																																																													
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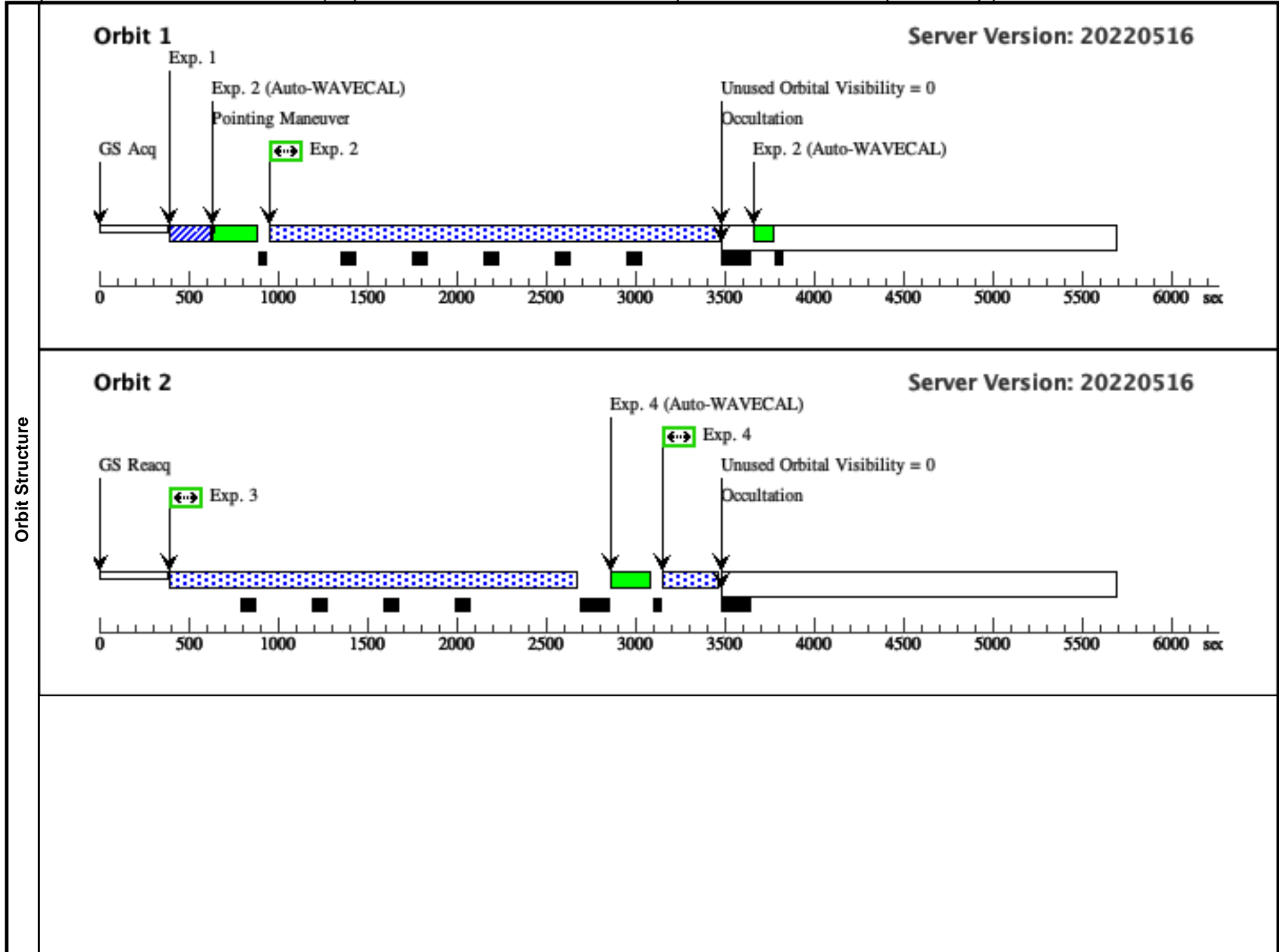


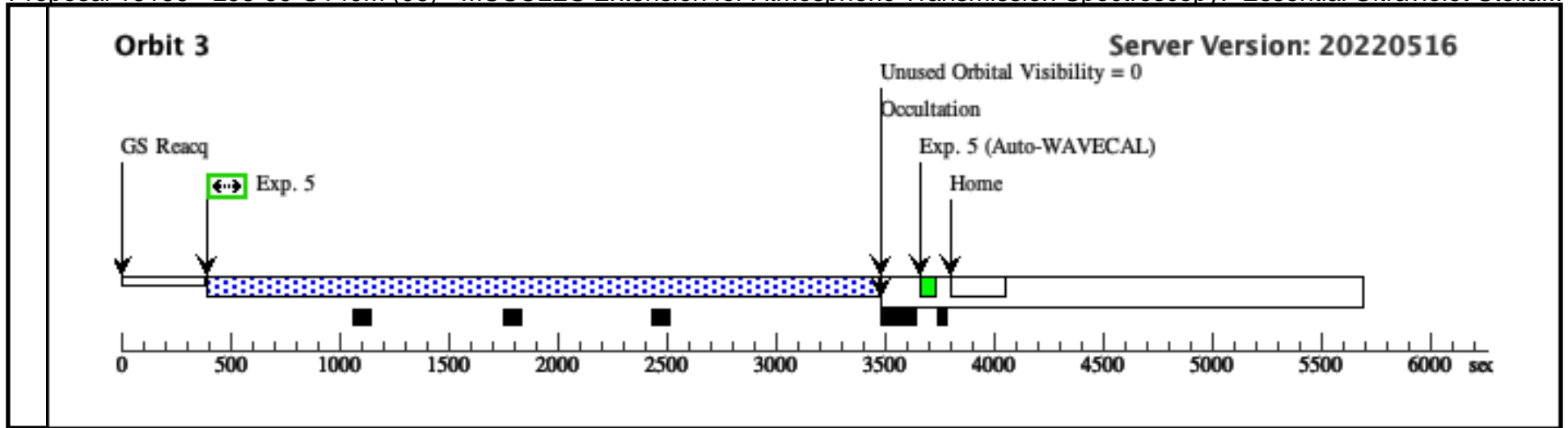


Proposal 16166 - L98-59 G140M (06) - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essential Ultraviolet Stella...

Thu Jul 07 15:00:53 GMT 2022

Visit	Proposal 16166, L98-59 G140M (06), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: GROUP 06.05 WITHIN 6D																					
	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>(3)</td> <td>L-98-59</td> <td>RA: 08 18 7.8865 (124.5328604d) Dec: -68 18 52.08 (-68.31447d) Equinox: J2000</td> <td>Proper Motion RA: 0.017097678098934456 sec of time/yr Proper Motion Dec: -0.34046999996917293 arcsec/yr Epoch of Position: 2015.5</td> <td>V=11.685</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=EXT-STAR Description=[M V-IV]</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(3)	L-98-59	RA: 08 18 7.8865 (124.5328604d) Dec: -68 18 52.08 (-68.31447d) Equinox: J2000	Proper Motion RA: 0.017097678098934456 sec of time/yr Proper Motion Dec: -0.34046999996917293 arcsec/yr Epoch of Position: 2015.5	V=11.685
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																	
(3)	L-98-59	RA: 08 18 7.8865 (124.5328604d) Dec: -68 18 52.08 (-68.31447d) Equinox: J2000	Proper Motion RA: 0.017097678098934456 sec of time/yr Proper Motion Dec: -0.34046999996917293 arcsec/yr Epoch of Position: 2015.5	V=11.685	Reference Frame: ICRS																	
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit												
	1	L98-59_vis2 _acq (STIS.ta.144 4691)	(3) L-98-59	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs) [==>]	[1]												
	2	L98-59_vis2 a_G140M (STIS.sp.14 12607)	(3) L-98-59	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	BUFFER-TIME=40 0			2501 Secs (2501 Secs) [==>]	[1]												
	3	L98-59_vis2 b_G140M (STIS.sp.14 12607)	(3) L-98-59	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	BUFFER-TIME=40 0			2268 Secs (2268 Secs) [==>]	[2]												
	<i>Comments: Factor of 2 margin added to Lyman-alpha T_exp for increased HI LyA at distance of the target.</i>																					
	4	L98-59_vis2 a_G230L (STIS.sp.14 12560)	(3) L-98-59	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=68 0			300 Secs (300 Secs) [==>]	[2]												
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>																					
5	L98-59_vis2 a_G230L (STIS.sp.14 12560)	(3) L-98-59	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=68 0			3066 Secs (3066 Secs) [==>]	[3]													
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>																						

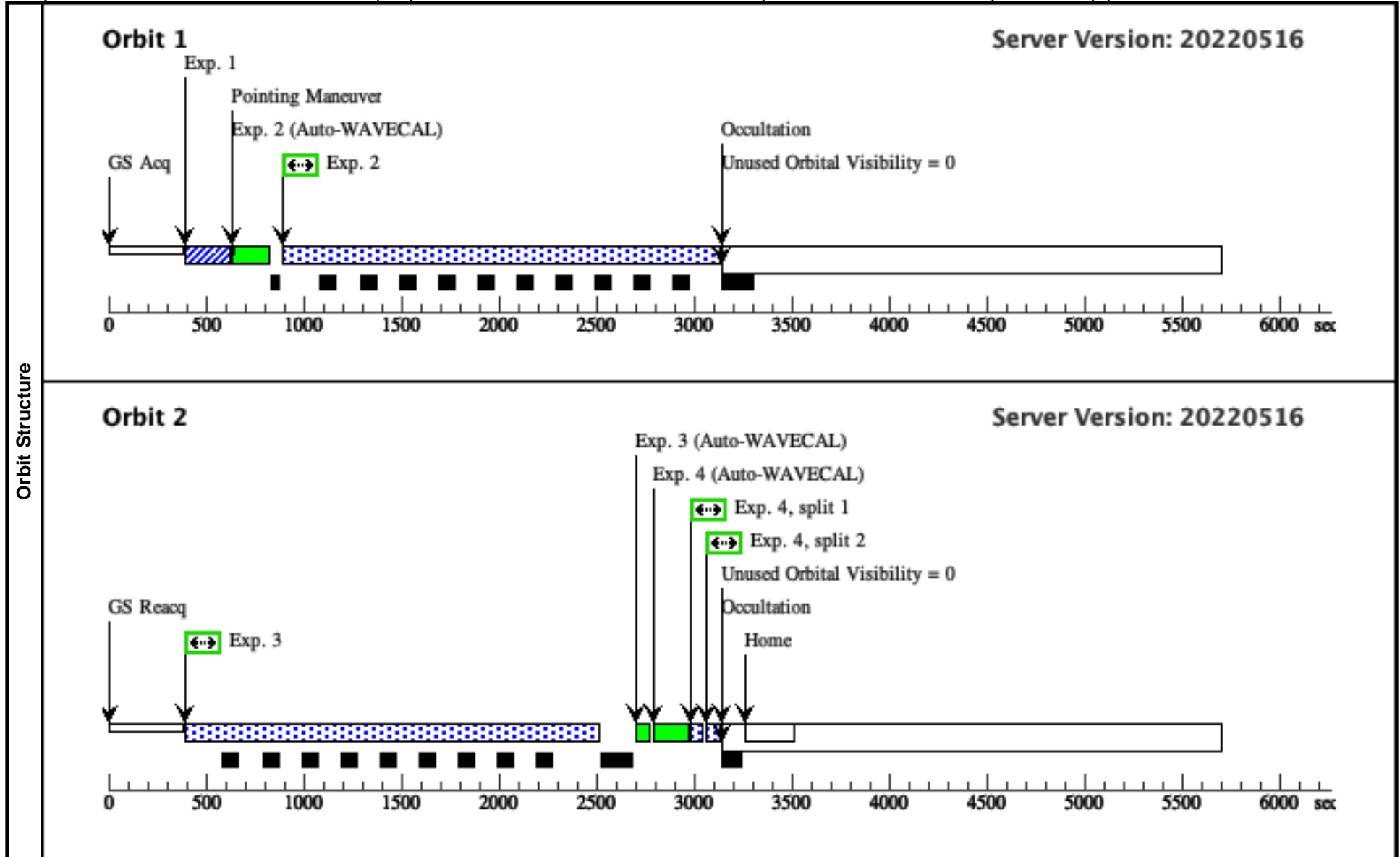




Proposal 16166 - WASP-43 G230L (07) - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essential Ultraviolet Ste...

Thu Jul 07 15:00:53 GMT 2022

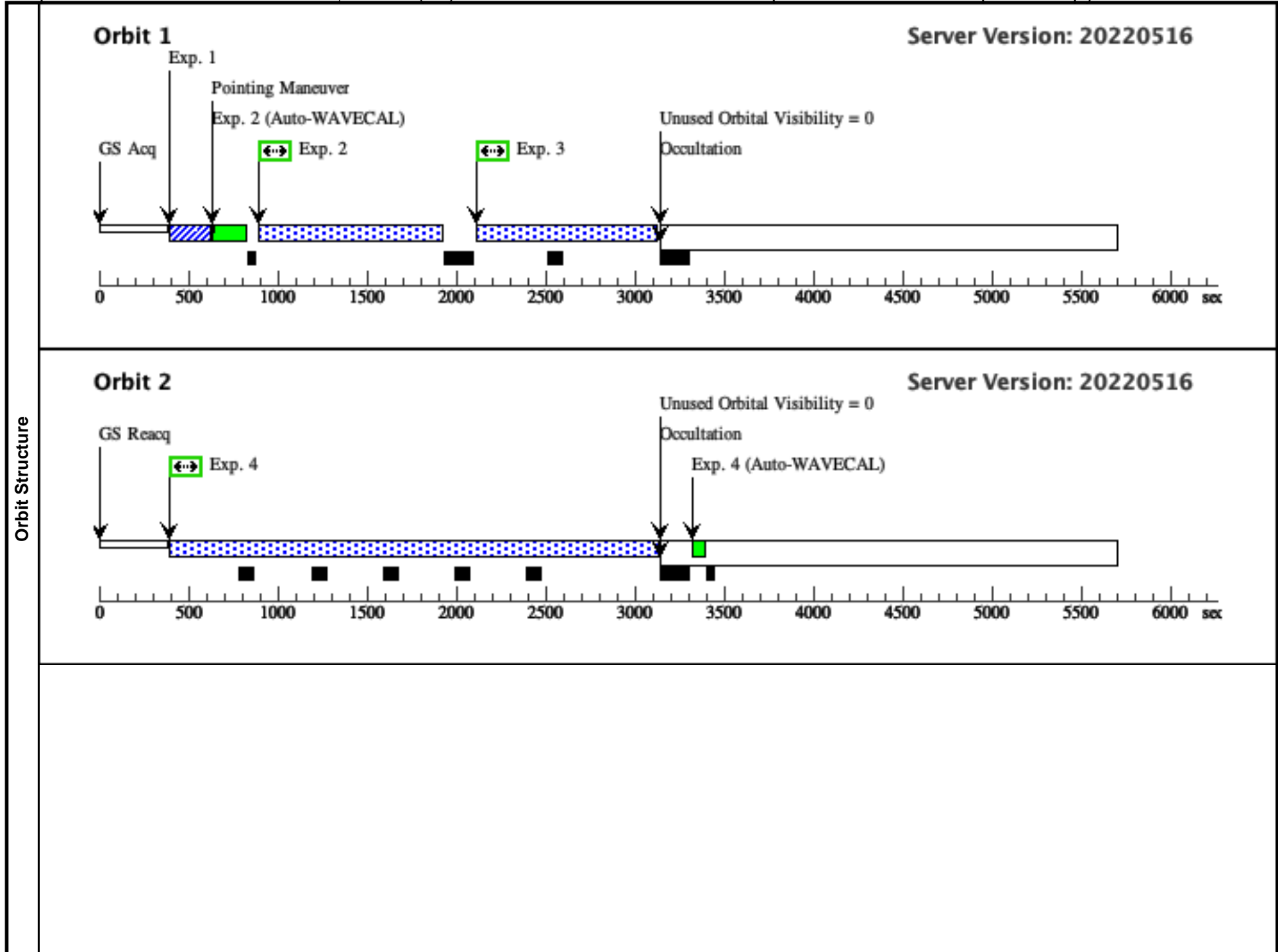
Visit	Proposal 16166, WASP-43 G230L (07), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	WASP-43	RA: 10 19 37.9649 (154.9081871d) Dec: -09 48 23.20 (-9.80644d) Equinox: J2000	Proper Motion RA: -0.002844494955422468 sec of time/yr Proper Motion Dec: -0.03819199998815748 arcsec/yr Epoch of Position: 2015.5	V=12.4	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=EXT-STAR Description=[K V-IV]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WASP-43_v (4) WASP-43 is2_acq (STIS.ta.144 5317)	(4) WASP-43	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs) [==>]	[1]
	2	WASP-43_v (4) WASP-43 is2a_G230L (STIS.sp.14 12557)	(4) WASP-43	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=20 0			2225 Secs (2225 Secs) [==>]	[1]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									
	3	WASP-43_v (4) WASP-43 is2a_G230L (STIS.sp.14 12557)	(4) WASP-43	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=20 0			2109 Secs (2109 Secs) [==>]	[2]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									
	4	WASP-43_v (4) WASP-43 is1a_G430L (STIS.sp.14 45318)	(4) WASP-43	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				60 Secs (60 Secs) [==>(Split 1)] [==>(Split 2)]	[2]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									

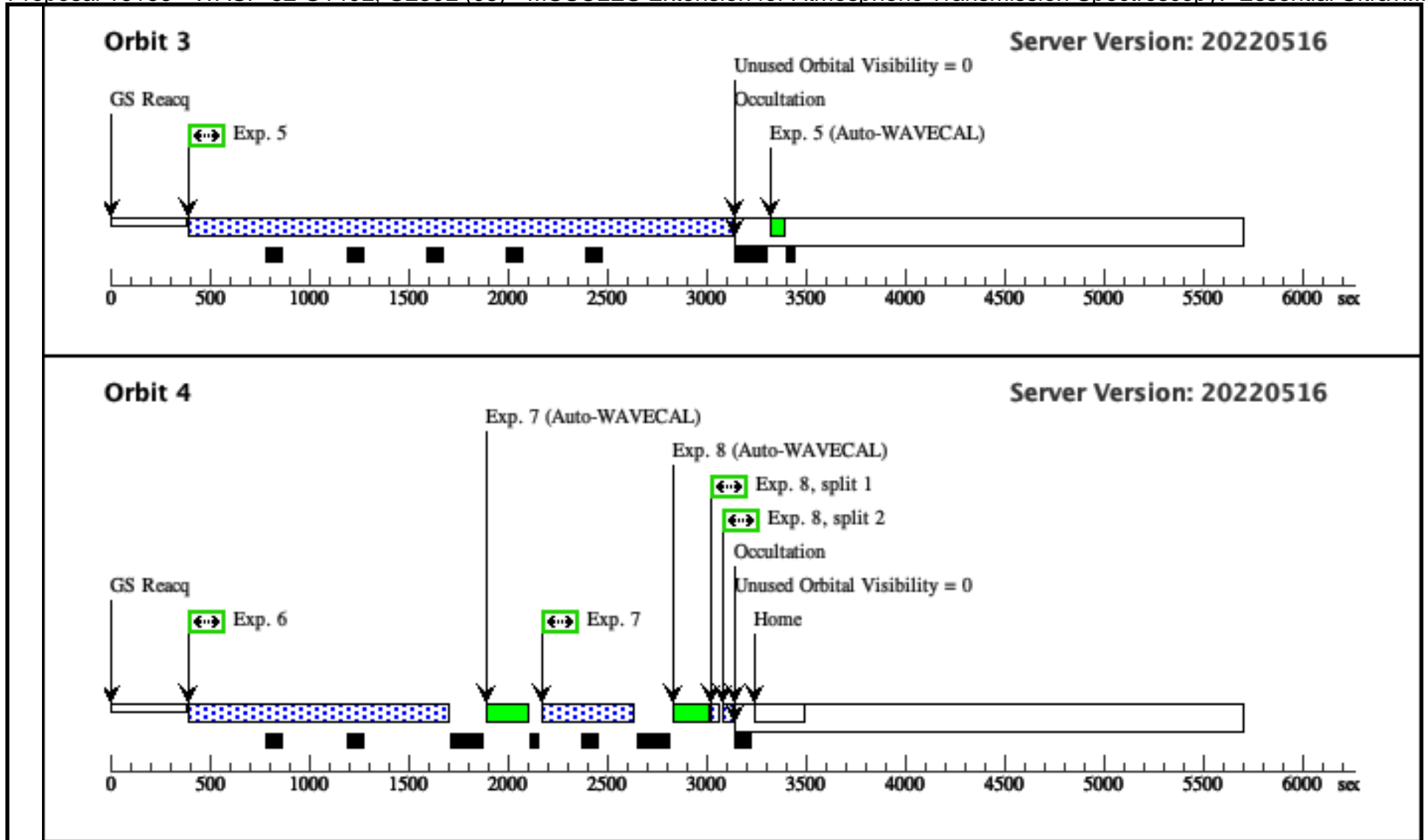


Proposal 16166 - WASP-52 G140L, G230L (08) - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essential Ultravi...

Thu Jul 07 15:00:53 GMT 2022

Visit	Proposal 16166, WASP-52 G140L, G230L (08), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: (none)									
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	WASP-52	RA: 23 13 58.7504 (348.4947933d) Dec: +08 45 39.89 (8.76108d) Equinox: J2000	Proper Motion RA: -4.6637496099768294E-4 sec of time/yr Proper Motion Dec: -0.04424799992648332 arcsec/yr Epoch of Position: 2015.5	V=12.0	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=EXT-STAR Description=[K V-IV]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WASP-52_v (5) WASP-52 is1_acq (STIS.ta.144 5319)	(5) WASP-52	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs) [==>]	[1]
	2	WASP-52_v (5) WASP-52 is1a_G140L (STIS.sp.14 12149)	(5) WASP-52	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=89 0			1019 Secs (1019 Secs) [==>]	[1]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									
	3	WASP-52_v (5) WASP-52 is1b_G140L (STIS.sp.14 12149)	(5) WASP-52	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=40 0			1000 Secs (1000 Secs) [==>]	[1]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									
	4	WASP-52_v (5) WASP-52 is1c_G140L (STIS.sp.14 12149)	(5) WASP-52	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=40 0			2725 Secs (2725 Secs) [==>]	[2]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									
	5	WASP-52_v (5) WASP-52 is1d_G140L (STIS.sp.14 12149)	(5) WASP-52	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=40 0			2725 Secs (2725 Secs) [==>]	[3]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									
6	WASP-52_v (5) WASP-52 is1e_G140L (STIS.sp.14 12149)	(5) WASP-52	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=40 0			1295 Secs (1295 Secs) [==>]	[4]	
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										
7	WASP-52_v (5) WASP-52 is1a_G230L (STIS.sp.14 12553)	(5) WASP-52	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=20 0			450 Secs (450 Secs) [==>]	[4]	
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										
8	WASP-52_v (5) WASP-52 is1a_G430L (STIS.sp.14 45320)	(5) WASP-52	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				20 Secs (20 Secs) [==>(Split 1)] [==>(Split 2)]	[4]	
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										

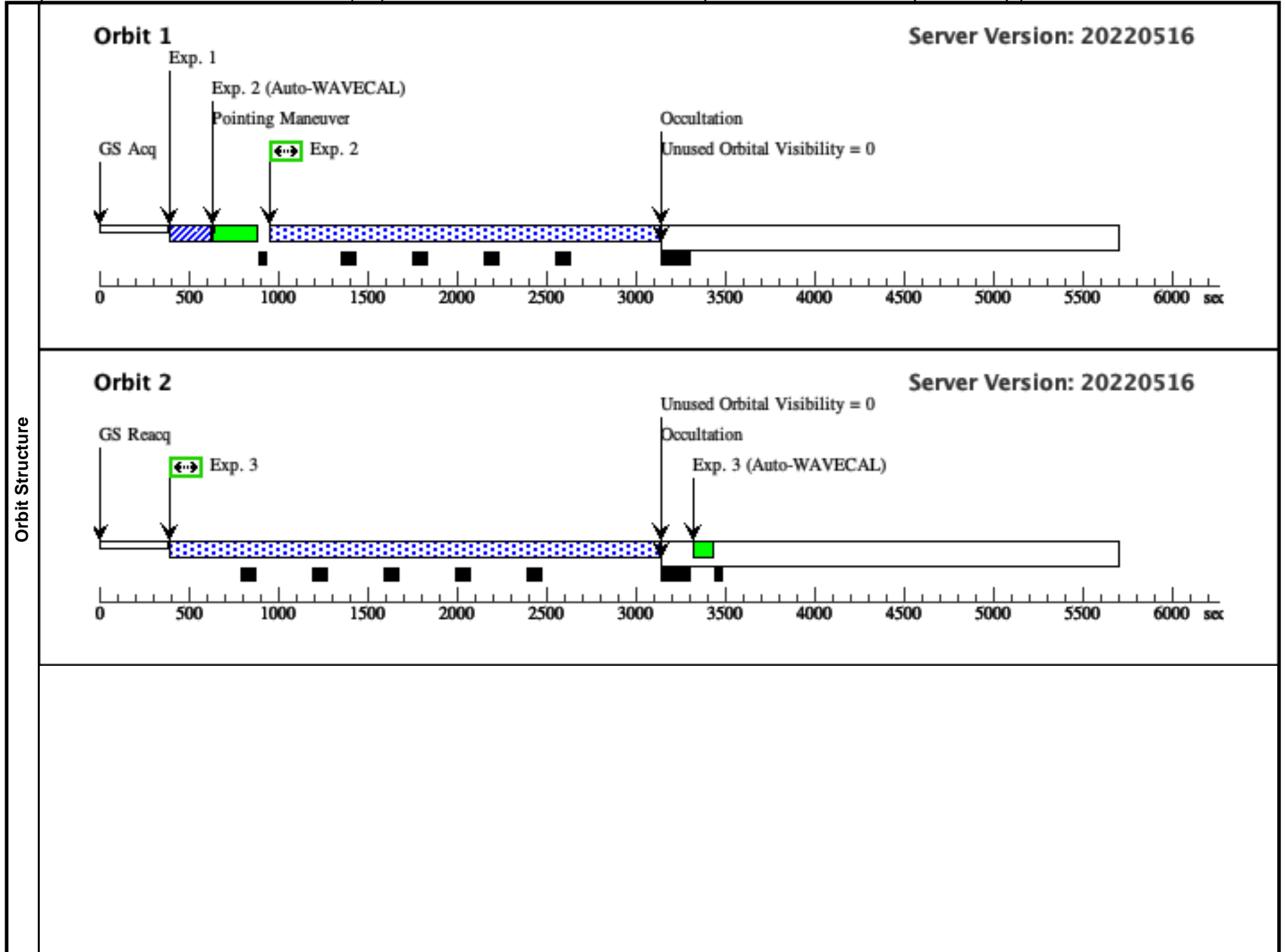


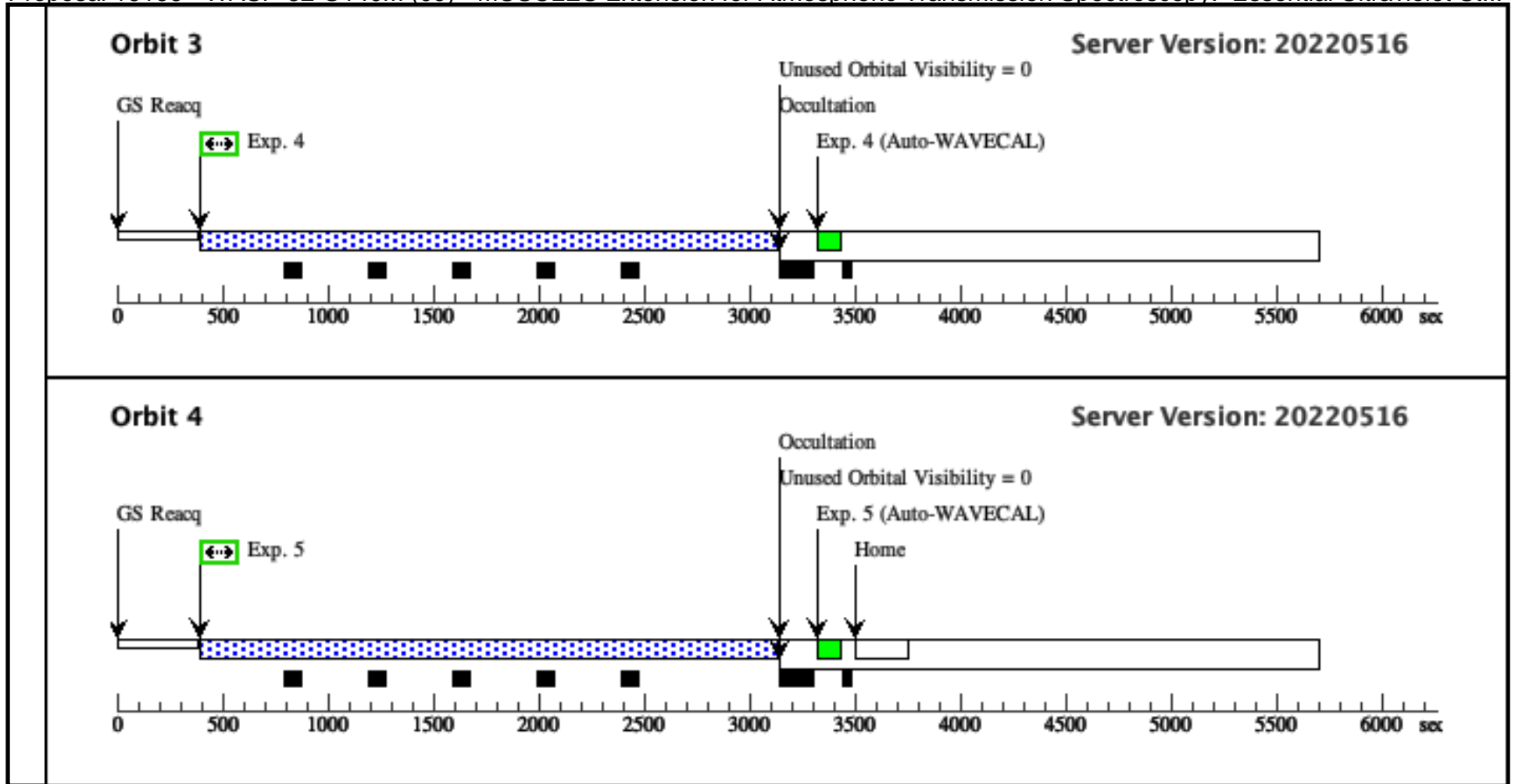


Proposal 16166 - WASP-52 G140M (09) - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essential Ultraviolet St...

Thu Jul 07 15:00:53 GMT 2022

Visit	Proposal 16166, WASP-52 G140M (09), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: GROUP 09.08 WITHIN 6D									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	WASP-52	RA: 23 13 58.7504 (348.4947933d) Dec: +08 45 39.89 (8.76108d) Equinox: J2000	Proper Motion RA: -4.6637496099768294E-4 sec of time/yr Proper Motion Dec: -0.04424799992648332 arcsec/yr Epoch of Position: 2015.5	V=12.0	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=EXT-STAR Description=[K V-IV]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WASP-52_v (5) WASP-52 is2_acq (STIS.ta.144 5319)	(5) WASP-52	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs) [==>]	[1]
	2	WASP-52_v (5) WASP-52 is2a_G140 M (STIS.sp.14 16228)	(5) WASP-52	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	BUFFER-TIME=40 0			2160 Secs (2160 Secs) [==>]	[1]
	3	WASP-52_v (5) WASP-52 is2b_G140 M (STIS.sp.14 16228)	(5) WASP-52	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	BUFFER-TIME=40 0			2723 Secs (2723 Secs) [==>]	[2]
	<i>Comments: Factor of 2 margin added to Lyman-alpha T_exp for increased HI LyA at distance of the target.</i>									
	4	WASP-52_v (5) WASP-52 is2c_G140 M (STIS.sp.14 16228)	(5) WASP-52	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	BUFFER-TIME=40 0			2723 Secs (2723 Secs) [==>]	[3]
	<i>Comments: Factor of 2 margin added to Lyman-alpha T_exp for increased HI LyA at distance of the target.</i>									
	5	WASP-52_v (5) WASP-52 is2d_G140 M (STIS.sp.14 16228)	(5) WASP-52	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	BUFFER-TIME=40 0			2723 Secs (2723 Secs) [==>]	[4]
	<i>Comments: Factor of 2 margin added to Lyman-alpha T_exp for increased HI LyA at distance of the target.</i>									

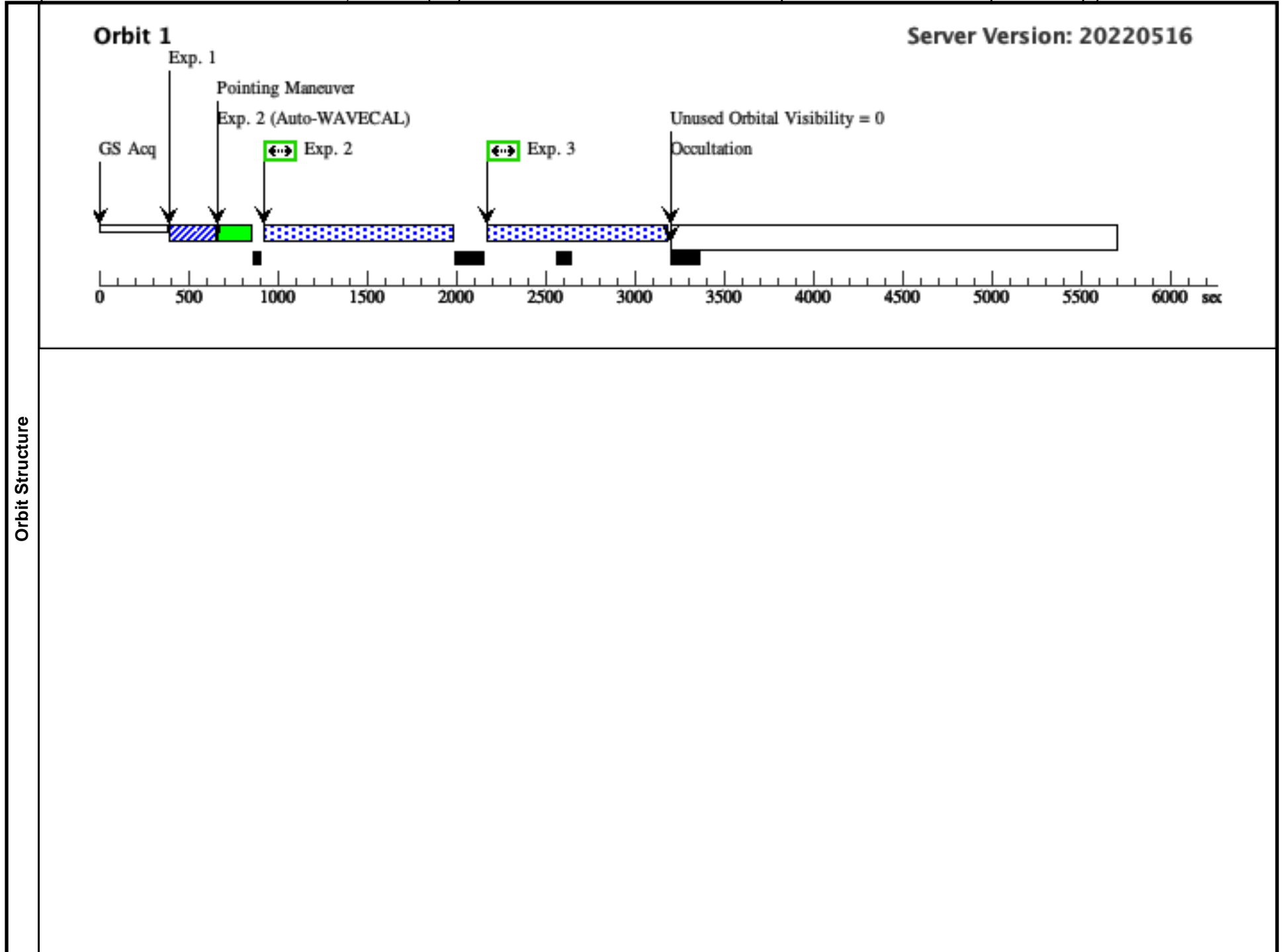


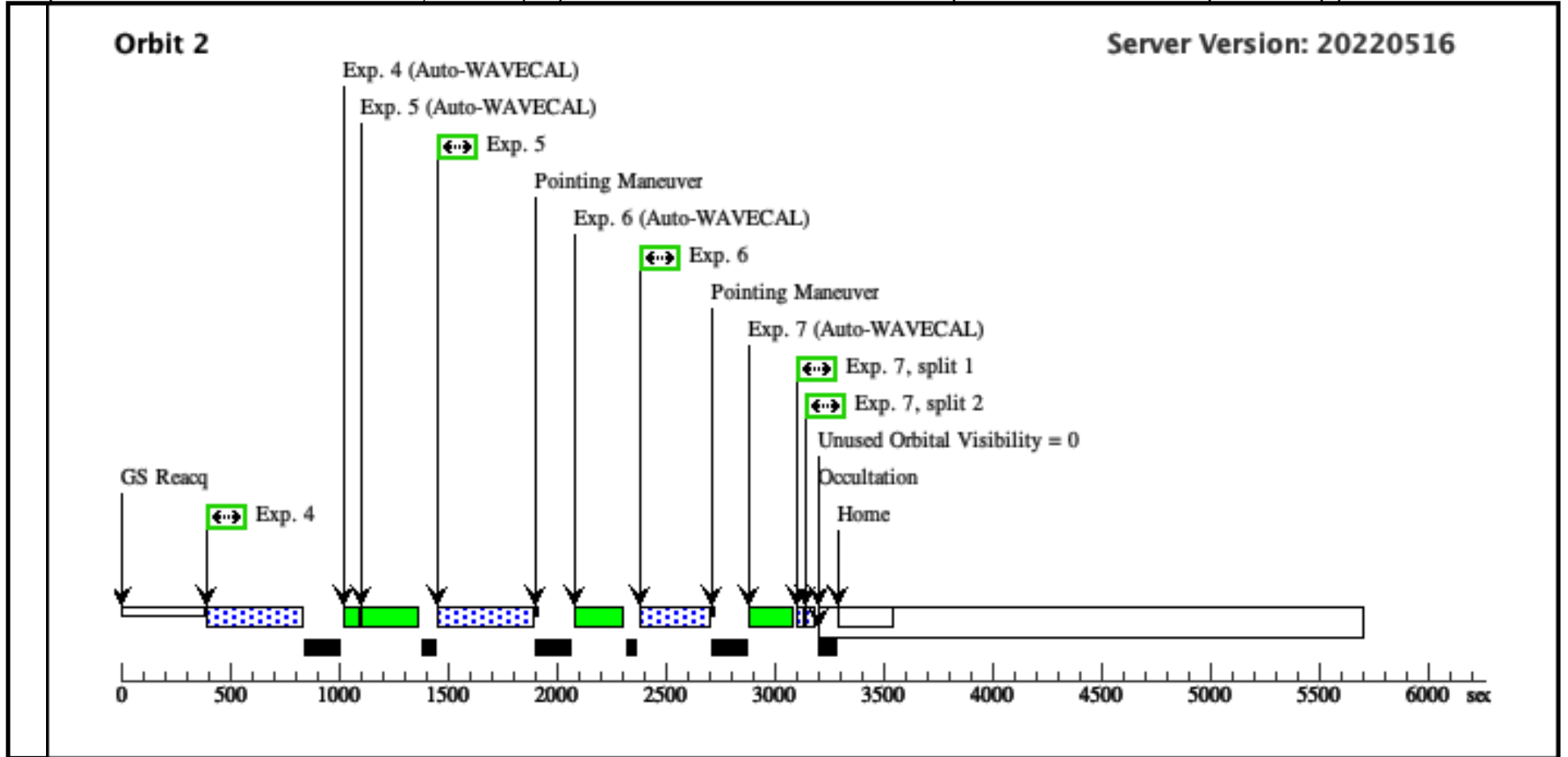


Proposal 16166 - HD149026 G140L, G230L (10) - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essential Ultra...

Thu Jul 07 15:00:53 GMT 2022

Visit	Proposal 16166, HD149026 G140L, G230L (10), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: (none)									
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
Fixed Targets	(6)	HD-149026	RA: 16 30 29.5158 (247.6229825d) Dec: +38 20 51.13 (38.34754d) Equinox: J2000	Proper Motion RA: -0.006621852498658672 sec of time/yr Proper Motion Dec: 0.052564 arcsec/yr Epoch of Position: 2015.5	V=8.14	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=EXT-STAR Description=[G V-IV] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	HD149026_ (6) HD-149026 vis1_acq (STIS.ta.144 5350)	(6) HD-149026	STIS/CCD, ACQ, F28X500II	MIRROR	ACQTYPE=POINT			0.2 Secs (0.2 Secs) [==>]	[1]
2	HD149026_ (6) HD-149026 vis1a_G140 L (STIS.sp.14 12146)	(6) HD-149026	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=89 0			1043 Secs (1043 Secs) [==>]	[1]	
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										
3	HD149026_ (6) HD-149026 vis1b_G140 L (STIS.sp.14 12146)	(6) HD-149026	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=40 0			1000 Secs (1000 Secs) [==>]	[1]	
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										
4	HD149026_ (6) HD-149026 vis1c_G140 L (STIS.sp.14 12146)	(6) HD-149026	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=40 0			424 Secs (424 Secs) [==>]	[2]	
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										
5	HD149026_ (6) HD-149026 vis1a_G140 M (STIS.sp.14 12604)	(6) HD-149026	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	BUFFER-TIME=40 0			420 Secs (420 Secs) [==>]	[2]	
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										
6	HD149026_ (6) HD-149026 vis1a_E230 M (STIS.sp.14 12549)	(6) HD-149026	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=20 0			300 Secs (300 Secs) [==>]	[2]	
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										
7	HD149026_ (6) HD-149026 vis1a_G430 L (STIS.sp.14 45351)	(6) HD-149026	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				1 Secs (1 Secs) [==>(Split 1)] [==>(Split 2)]	[2]	
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										





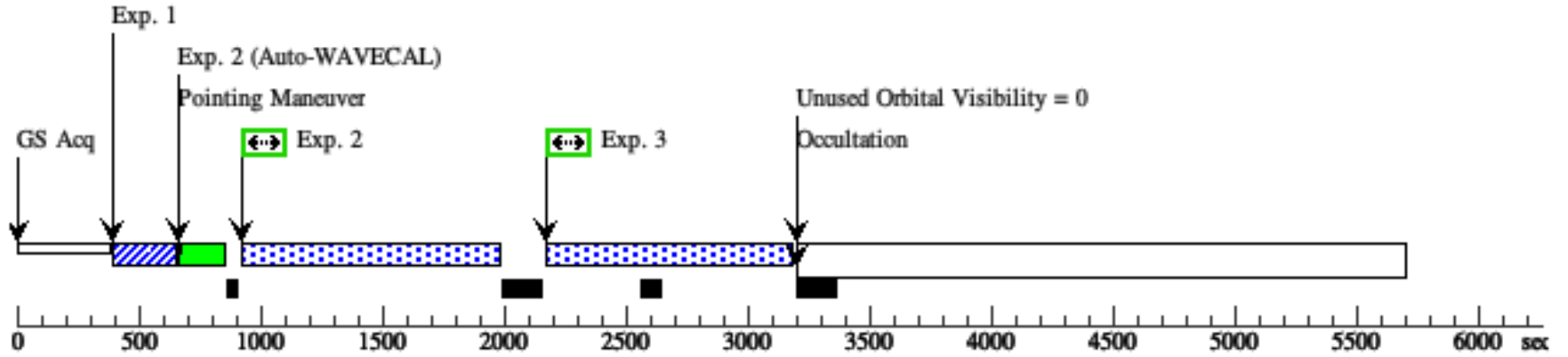
Proposal 16166 - HOPR10 (Z1) - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essential Ultraviolet Stellar Char...

Thu Jul 07 15:00:53 GMT 2022

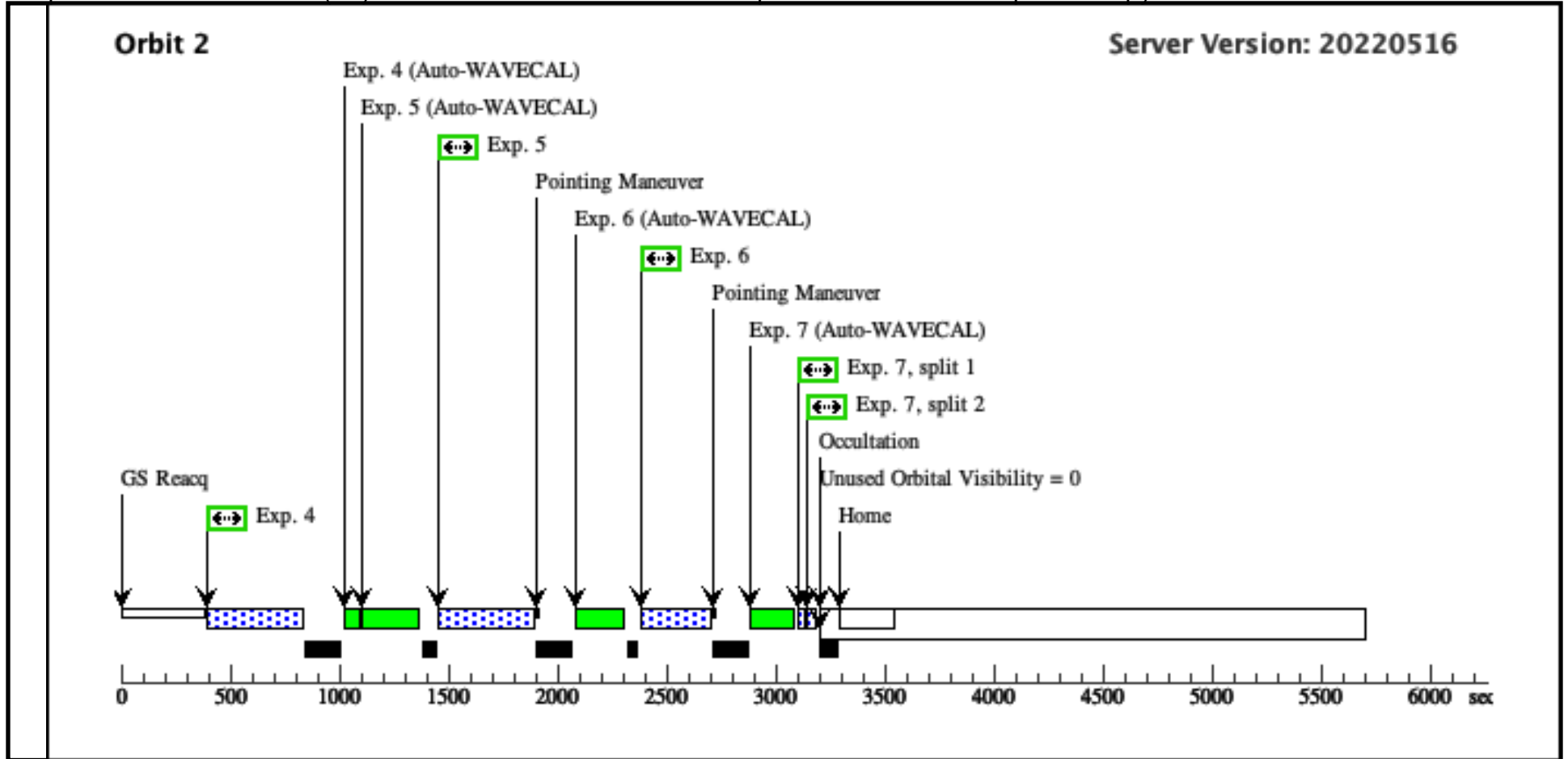
Visit	Proposal 16166, HOPR10 (Z1) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: (none)									
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	HD-149026	RA: 16 30 29.5158 (247.6229825d) Dec: +38 20 51.13 (38.34754d) Equinox: J2000	Proper Motion RA: -0.006621852498658672 sec of time/yr Proper Motion Dec: 0.052564 arcsec/yr Epoch of Position: 2015.5	V=8.14	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=EXT-STAR Description=[G V-IV] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	HD149026_ (6) HD-149026 vis1_acq (STIS.ta.144 5350)	(6) HD-149026	STIS/CCD, ACQ, F28X500II	MIRROR	ACQTYPE=POINT			0.2 Secs (0.2 Secs) [==>]	[1]
	2	HD149026_ (6) HD-149026 vis1a_G140 L (STIS.sp.14 12146)	(6) HD-149026	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=89 0			1043 Secs (1043 Secs) [==>]	[1]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									
	3	HD149026_ (6) HD-149026 vis1b_G140 L (STIS.sp.14 12146)	(6) HD-149026	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=40 0			1000 Secs (1000 Secs) [==>]	[1]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									
	4	HD149026_ (6) HD-149026 vis1c_G140 L (STIS.sp.14 12146)	(6) HD-149026	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=40 0			424 Secs (424 Secs) [==>]	[2]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									
	5	HD149026_ (6) HD-149026 vis1a_G140 M (STIS.sp.14 12604)	(6) HD-149026	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	BUFFER-TIME=40 0			420 Secs (420 Secs) [==>]	[2]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									
6	HD149026_ (6) HD-149026 vis1a_E230 M (STIS.sp.14 12549)	(6) HD-149026	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=20 0			300 Secs (300 Secs) [==>]	[2]	
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										
7	HD149026_ (6) HD-149026 vis1a_G430 L (STIS.sp.14 45351)	(6) HD-149026	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				1 Secs (1 Secs) [==>(Split 1)] [==>(Split 2)]	[2]	
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										

Orbit 1

Server Version: 20220516



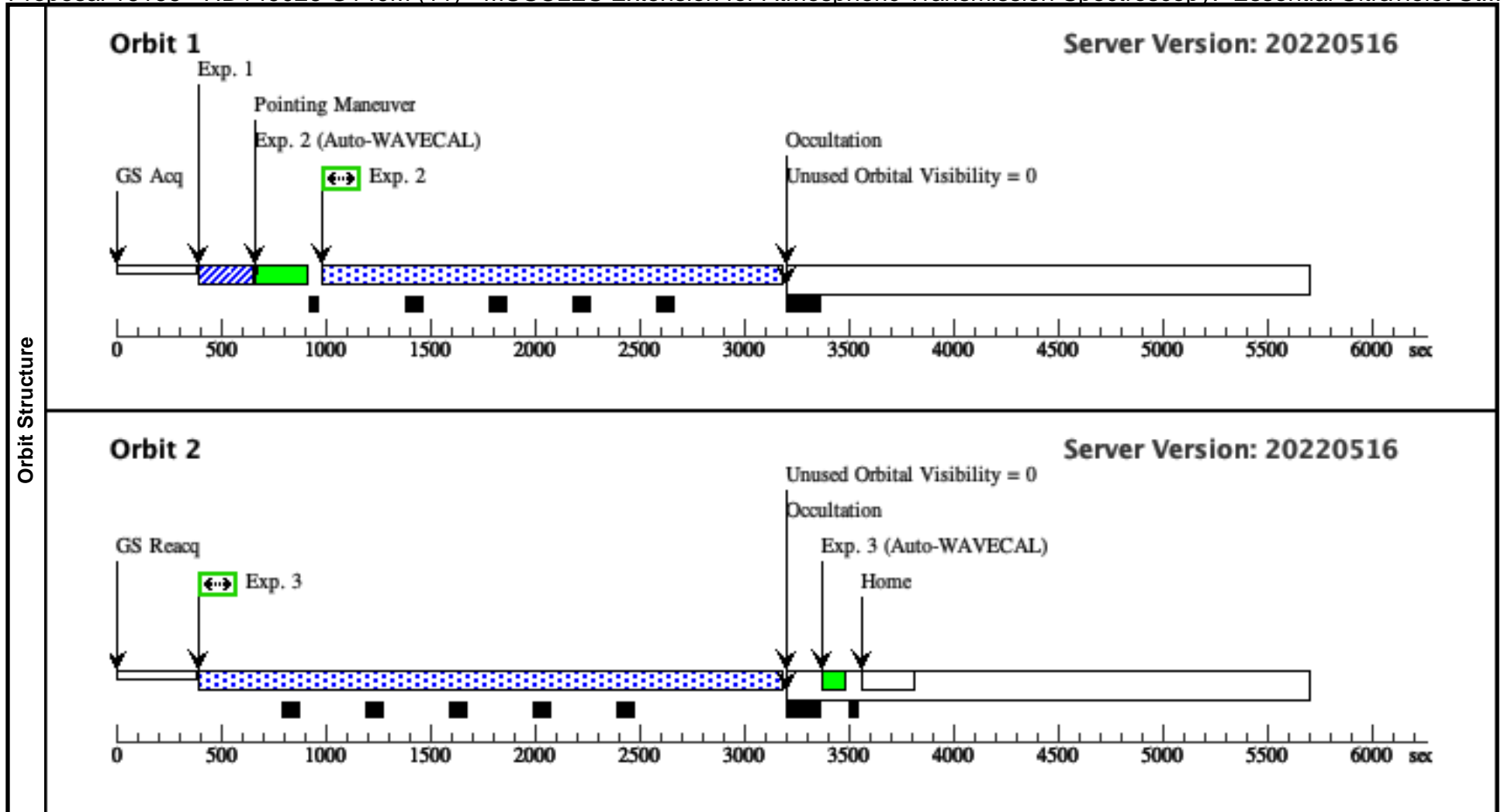
Orbit Structure



Proposal 16166 - HD149026 G140M (11) - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essential Ultraviolet St...

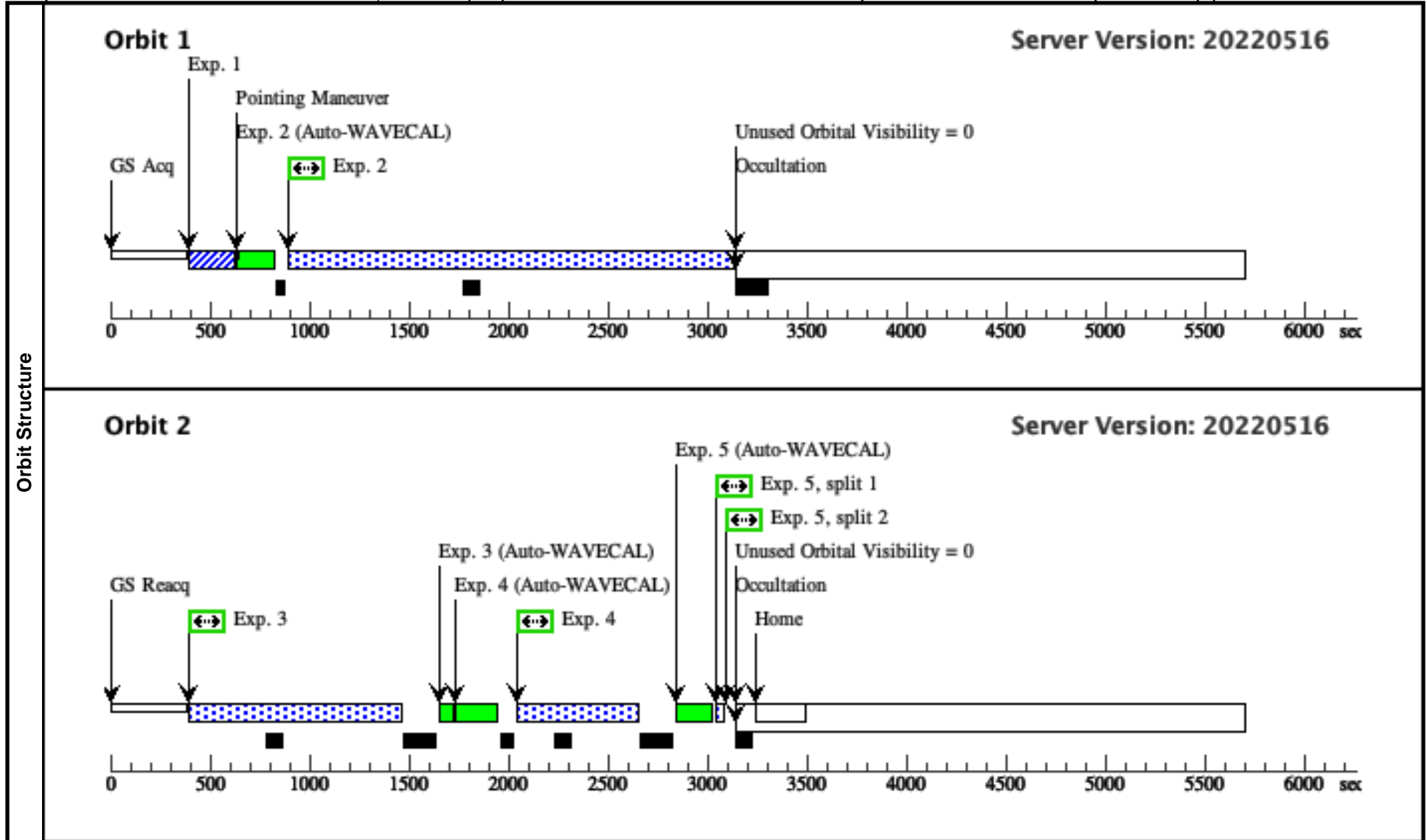
Thu Jul 07 15:00:53 GMT 2022

Visit	Proposal 16166, HD149026 G140M (11), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: GROUP 11,10 WITHIN 6D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(6)	HD-149026	RA: 16 30 29.5158 (247.6229825d) Dec: +38 20 51.13 (38.34754d) Equinox: J2000	Proper Motion RA: -0.006621852498658672 sec of time/yr Proper Motion Dec: 0.052564 arcsec/yr Epoch of Position: 2015.5	V=8.14	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=EXT-STAR Description=[G V-IV] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	HD149026_ vis2_acq (STIS.ta.144 5350)	(6) HD-149026	STIS/CCD, ACQ, F28X500II	MIRROR	ACQTYPE=POINT			0.2 Secs (0.2 Secs) [==>]	[1]
	2	HD149026_ vis2a_G140 M (STIS.sp.14 12604)	(6) HD-149026	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	BUFFER-TIME=40 0			2184 Secs (2184 Secs) [==>]	[1]
	3	HD149026_ vis2b_G140 M (STIS.sp.14 12604)	(6) HD-149026	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	BUFFER-TIME=40 0			2778 Secs (2778 Secs) [==>]	[2]
	<i>Comments: Factor of 2 margin added to Lyman-alpha T_exp for increased HI LyA at distance of the target.</i>									



Proposal 16166 - WASP-77 G140L, G230L (12) - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essential Ultravi...

Visit	Proposal 16166, WASP-77 G140L, G230L (12), completed Thu Jul 07 15:00:53 GMT 2022 Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: (none)																																																																																																													
Fixed Targets	<table border="1" style="width: 100%; border-collapse: collapse;"> <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>(7)</td> <td>BD-07-436A</td> <td>RA: 02 28 37.3253 (37.1555221d) Dec: -07 03 38.40 (-7.06067d) Equinox: J2000</td> <td>Proper Motion RA: 0.006307096188681314 sec of time/yr Proper Motion Dec: -0.0015670000721001998 arcsec/yr Epoch of Position: 2015.5</td> <td>V=10.12</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=EXT-STAR Description=[G V-IV]</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(7)	BD-07-436A	RA: 02 28 37.3253 (37.1555221d) Dec: -07 03 38.40 (-7.06067d) Equinox: J2000	Proper Motion RA: 0.006307096188681314 sec of time/yr Proper Motion Dec: -0.0015670000721001998 arcsec/yr Epoch of Position: 2015.5	V=10.12	Reference Frame: ICRS																																																																																								
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																																																																									
(7)	BD-07-436A	RA: 02 28 37.3253 (37.1555221d) Dec: -07 03 38.40 (-7.06067d) Equinox: J2000	Proper Motion RA: 0.006307096188681314 sec of time/yr Proper Motion Dec: -0.0015670000721001998 arcsec/yr Epoch of Position: 2015.5	V=10.12	Reference Frame: ICRS																																																																																																									
Exposures	<table border="1" style="width: 100%; border-collapse: collapse;"> <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>WASP-77_v (7) BD-07-436A is1_acq (STIS.ta.144 5353)</td> <td>BD-07-436A</td> <td>STIS/CCD, ACQ, F28X50LP</td> <td>MIRROR</td> <td>ACQTYPE=POINT</td> <td></td> <td></td> <td>0.1 Secs (0.1 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>WASP-77_v (7) BD-07-436A is1a_G140L (STIS.sp.14 11836)</td> <td>BD-07-436A</td> <td>STIS/FUV-MAMA, TIME-TAG, 52X0.2</td> <td>G140L 1425 A</td> <td>BUFFER-TIME=89 0</td> <td></td> <td></td> <td>2225 Secs (2225 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i></td> </tr> <tr> <td>3</td> <td>WASP-77_v (7) BD-07-436A is1b_G140L (STIS.sp.14 11836)</td> <td>BD-07-436A</td> <td>STIS/FUV-MAMA, TIME-TAG, 52X0.2</td> <td>G140L 1425 A</td> <td>BUFFER-TIME=40 0</td> <td></td> <td></td> <td>1055 Secs (1055 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td colspan="10"><i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i></td> </tr> <tr> <td>4</td> <td>WASP-77_v (7) BD-07-436A is1a_G230L (STIS.sp.14 12540)</td> <td>BD-07-436A</td> <td>STIS/NUV-MAMA, TIME-TAG, 52X0.2</td> <td>G230L 2376 A</td> <td>BUFFER-TIME=20 0</td> <td></td> <td></td> <td>600 Secs (600 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td colspan="10"><i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i></td> </tr> <tr> <td>5</td> <td>WASP-77_v (7) BD-07-436A is1a_G430L (STIS.sp.14 45355)</td> <td>BD-07-436A</td> <td>STIS/CCD, ACCUM, 52X0.2</td> <td>G430L 4300 A</td> <td></td> <td></td> <td></td> <td>5 Secs (5 Secs) [==>(Split 1)] [==>(Split 2)]</td> <td>[2]</td> </tr> <tr> <td colspan="10"><i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i></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	WASP-77_v (7) BD-07-436A is1_acq (STIS.ta.144 5353)	BD-07-436A	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs) [==>]	[1]	2	WASP-77_v (7) BD-07-436A is1a_G140L (STIS.sp.14 11836)	BD-07-436A	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=89 0			2225 Secs (2225 Secs) [==>]	[1]	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										3	WASP-77_v (7) BD-07-436A is1b_G140L (STIS.sp.14 11836)	BD-07-436A	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=40 0			1055 Secs (1055 Secs) [==>]	[2]	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										4	WASP-77_v (7) BD-07-436A is1a_G230L (STIS.sp.14 12540)	BD-07-436A	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=20 0			600 Secs (600 Secs) [==>]	[2]	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										5	WASP-77_v (7) BD-07-436A is1a_G430L (STIS.sp.14 45355)	BD-07-436A	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				5 Secs (5 Secs) [==>(Split 1)] [==>(Split 2)]	[2]	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																																																																					
1	WASP-77_v (7) BD-07-436A is1_acq (STIS.ta.144 5353)	BD-07-436A	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs) [==>]	[1]																																																																																																					
2	WASP-77_v (7) BD-07-436A is1a_G140L (STIS.sp.14 11836)	BD-07-436A	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=89 0			2225 Secs (2225 Secs) [==>]	[1]																																																																																																					
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>																																																																																																														
3	WASP-77_v (7) BD-07-436A is1b_G140L (STIS.sp.14 11836)	BD-07-436A	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=40 0			1055 Secs (1055 Secs) [==>]	[2]																																																																																																					
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>																																																																																																														
4	WASP-77_v (7) BD-07-436A is1a_G230L (STIS.sp.14 12540)	BD-07-436A	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=20 0			600 Secs (600 Secs) [==>]	[2]																																																																																																					
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>																																																																																																														
5	WASP-77_v (7) BD-07-436A is1a_G430L (STIS.sp.14 45355)	BD-07-436A	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				5 Secs (5 Secs) [==>(Split 1)] [==>(Split 2)]	[2]																																																																																																					
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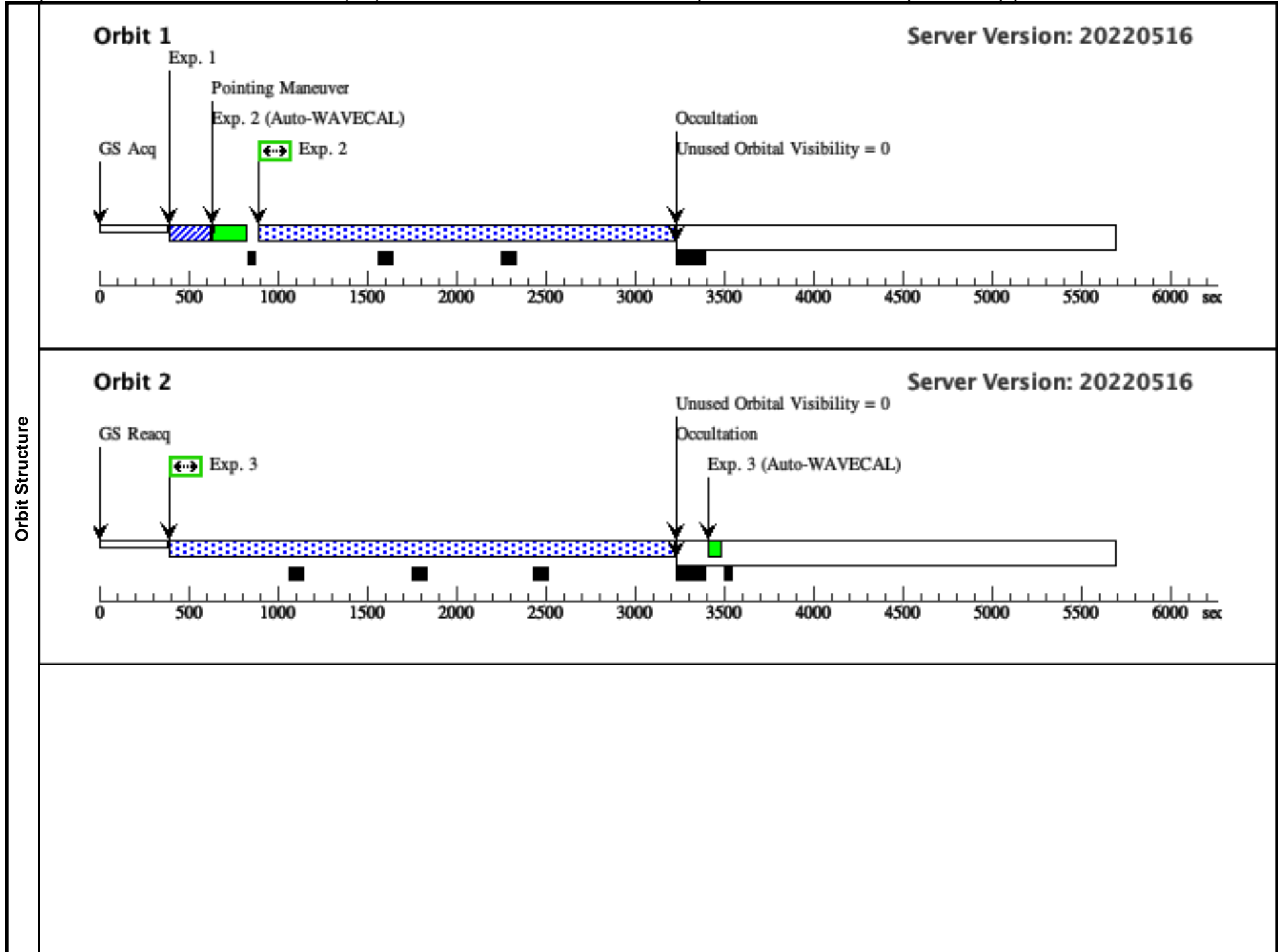


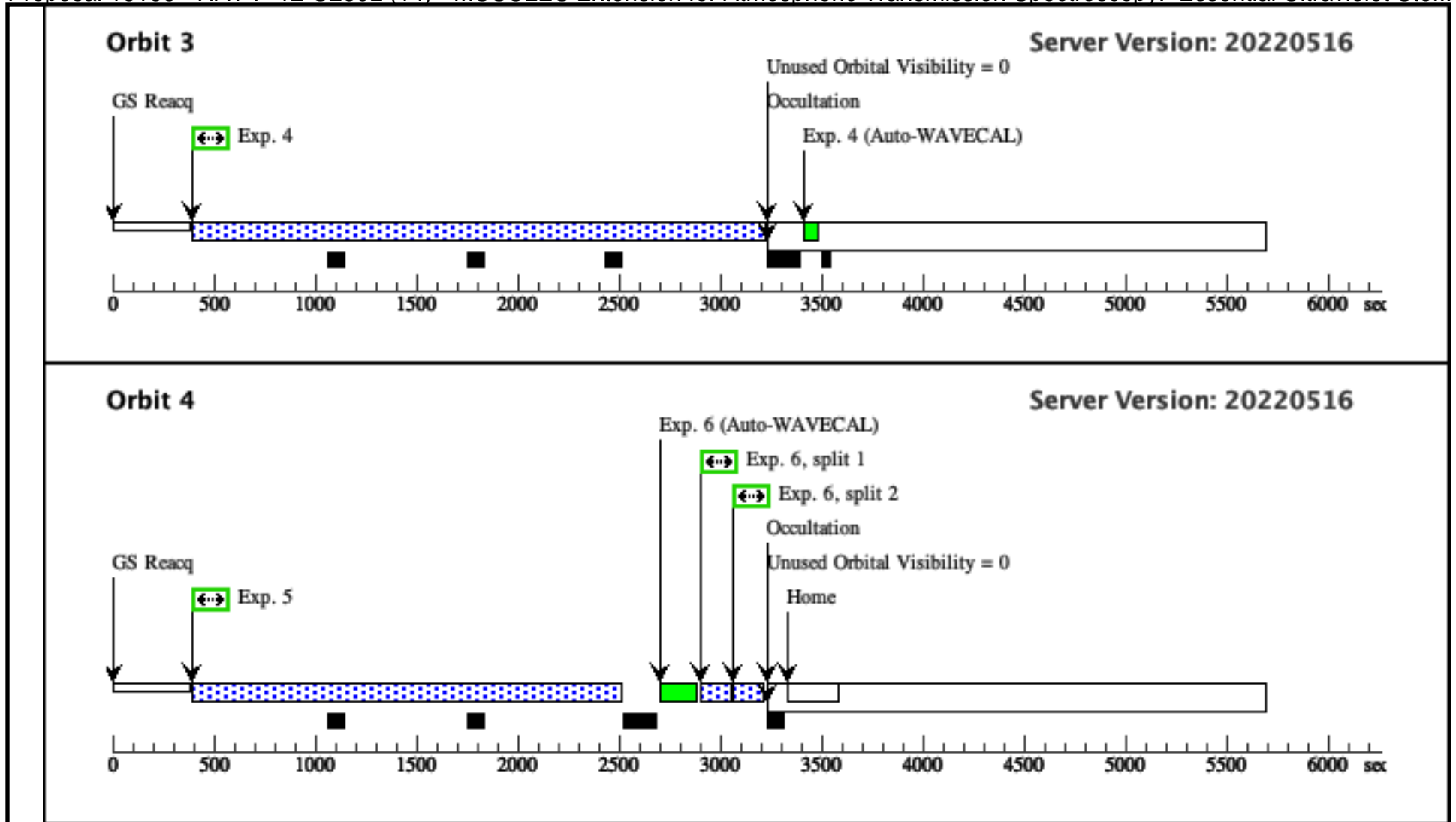
Visit	Proposal 16166, WASP-77 G140M (13), completed									
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: GROUP 13,12 WITHIN 6D									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	BD-07-436A	RA: 02 28 37.3253 (37.1555221d) Dec: -07 03 38.40 (-7.06067d) Equinox: J2000	Proper Motion RA: 0.006307096188681314 sec of time/yr Proper Motion Dec: -0.0015670000721001998 arcsec/yr Epoch of Position: 2015.5	V=10.12	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=EXT-STAR Description=[G V-IV]										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WASP-77_v (7) BD-07-436A is2_acq (STIS.ta.144 5353)	(7) BD-07-436A	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs) [==>]	[1]
	2	WASP-77_v (7) BD-07-436A is2a_G140 M (STIS.sp.14 16223)	(7) BD-07-436A	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	BUFFER-TIME=40 0			2160 Secs (2160 Secs) [==>]	[1]
Orbit Structure	Orbit 1									
	<p style="text-align: right;">Server Version: 20220516</p>									

Proposal 16166 - HAT-P-12 G230L (14) - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essential Ultraviolet Ste...

Thu Jul 07 15:00:53 GMT 2022

Visit	Proposal 16166, HAT-P-12 G230L (14), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	HAT-P-12	RA: 13 57 33.2749 (209.3886454d) Dec: +43 29 35.92 (43.49331d) Equinox: J2000	Proper Motion RA: -0.012386805361232624 sec of time/yr Proper Motion Dec: -0.044293999917499605 arcsec/yr Epoch of Position: 2015.5	V=12.84	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=EXT-STAR Description=[K V-IV]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	HAT-P-12_ vis2_acq (STIS.ta.144 5464)	(8) HAT-P-12	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs) [==>]	[1]
	2	HAT-P-12_ vis2a_G230 L (STIS.sp.14 12546)	(8) HAT-P-12	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=68 0			2318 Secs (2318 Secs) [==>]	[1]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									
	3	HAT-P-12_ vis2b_G230 L (STIS.sp.14 12546)	(8) HAT-P-12	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=68 0			2818 Secs (2818 Secs) [==>]	[2]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									
	4	HAT-P-12_ vis2c_G230 L (STIS.sp.14 12546)	(8) HAT-P-12	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=68 0			2818 Secs (2818 Secs) [==>]	[3]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									
	5	HAT-P-12_ vis2d_G230 L (STIS.sp.14 12546)	(8) HAT-P-12	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=68 0			2109 Secs (2109 Secs) [==>]	[4]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									
	6	HAT-P-12_ vis1a_G430 L (STIS.sp.14 45465)	(8) HAT-P-12	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				238 Secs (238 Secs) [==>(Split 1)] [==>(Split 2)]	[4]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									





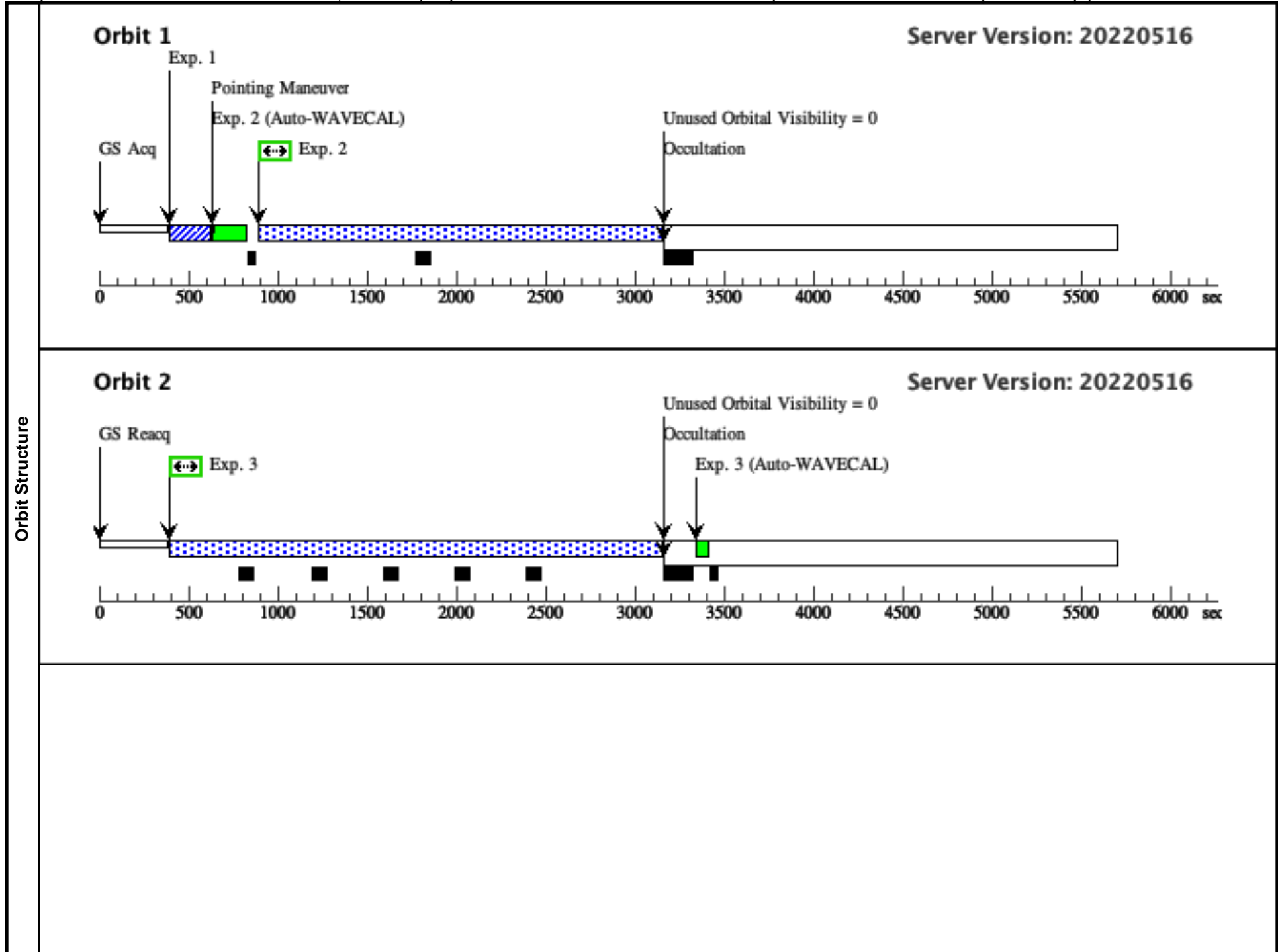
Proposal 16166 - WASP-17 G140L, G230L (15) - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essential Ultravi...

Thu Jul 07 15:00:53 GMT 2022

Visit	Proposal 16166, WASP-17 G140L, G230L (15), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

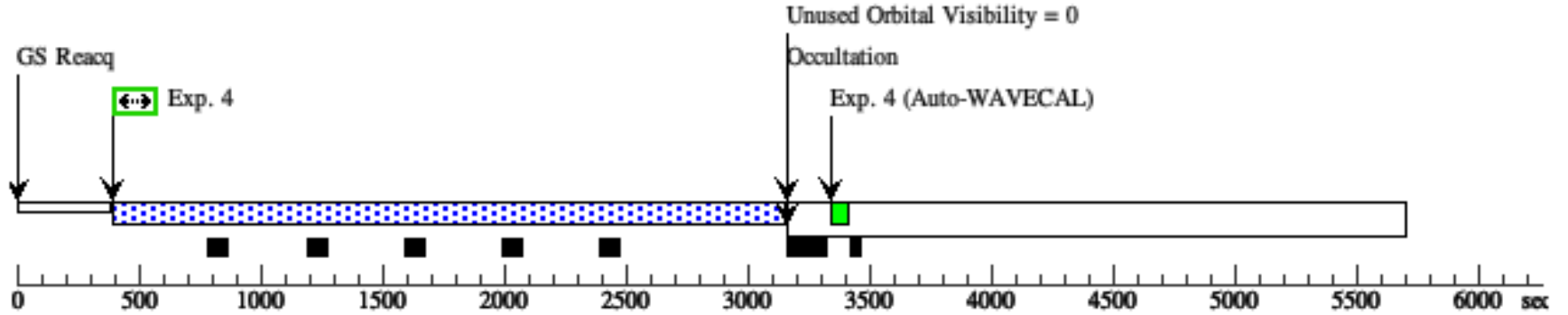
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	WASP-17	RA: 15 59 50.9395 (239.9622479d) Dec: -28 03 42.46 (-28.06179d) Equinox: J2000	Proper Motion RA: -6.11939102377288E-4 sec of time/yr Proper Motion Dec: -0.00963899997259432 arcsec/yr Epoch of Position: 2015.5	V=11.59	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					
	Category=EXT-STAR Description=[F3-F9] Extended=NO					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	WASP-17_v is1_acq (STIS.ta.144 5466)	(9) WASP-17	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT				0.1 Secs (0.1 Secs) [==>]	[1]
	2	WASP-17_v is1a_G140L (STIS.sp.14 12144)	(9) WASP-17	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=89 0				2245 Secs (2245 Secs) [==>]	[1]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										
	3	WASP-17_v is1b_G140L (STIS.sp.14 12144)	(9) WASP-17	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=40 0				2745 Secs (2745 Secs) [==>]	[2]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										
	4	WASP-17_v is1c_G140L (STIS.sp.14 12144)	(9) WASP-17	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=40 0				2745 Secs (2745 Secs) [==>]	[3]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										
	5	WASP-17_v is1d_G140L (STIS.sp.14 12144)	(9) WASP-17	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=40 0				2745 Secs (2745 Secs) [==>]	[4]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										
6	WASP-17_v is1e_G140L (STIS.sp.14 12144)	(9) WASP-17	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=80 0				1017 Secs (1017 Secs) [==>]	[5]	
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>											
7	WASP-17_v is1a_G230L (STIS.sp.14 45469)	(9) WASP-17	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=20 0				758 Secs (758 Secs) [==>]	[5]	
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>											
8	WASP-17_v is1a_G430L (STIS.sp.14 45467)	(9) WASP-17	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A					10 Secs (10 Secs) [==>(Split 1)] [==>(Split 2)]	[5]	
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>											



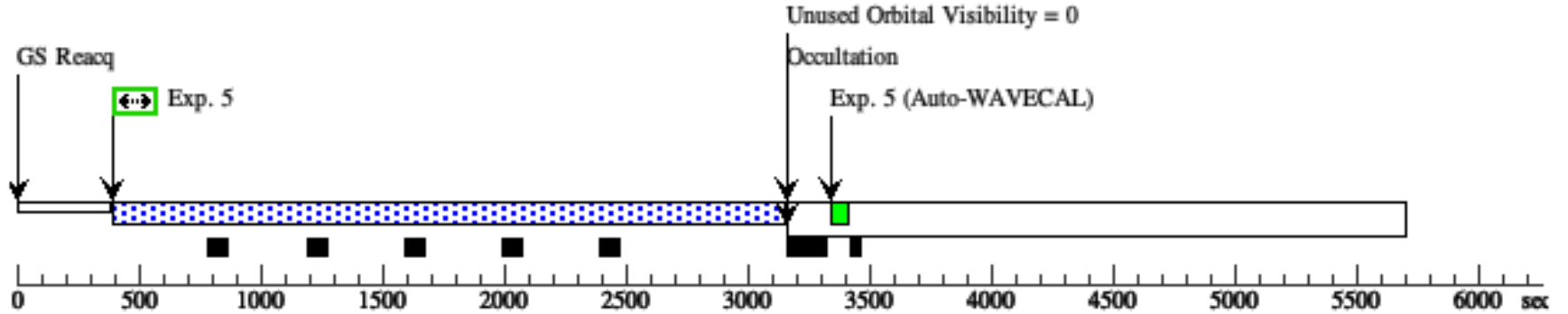
Orbit 3

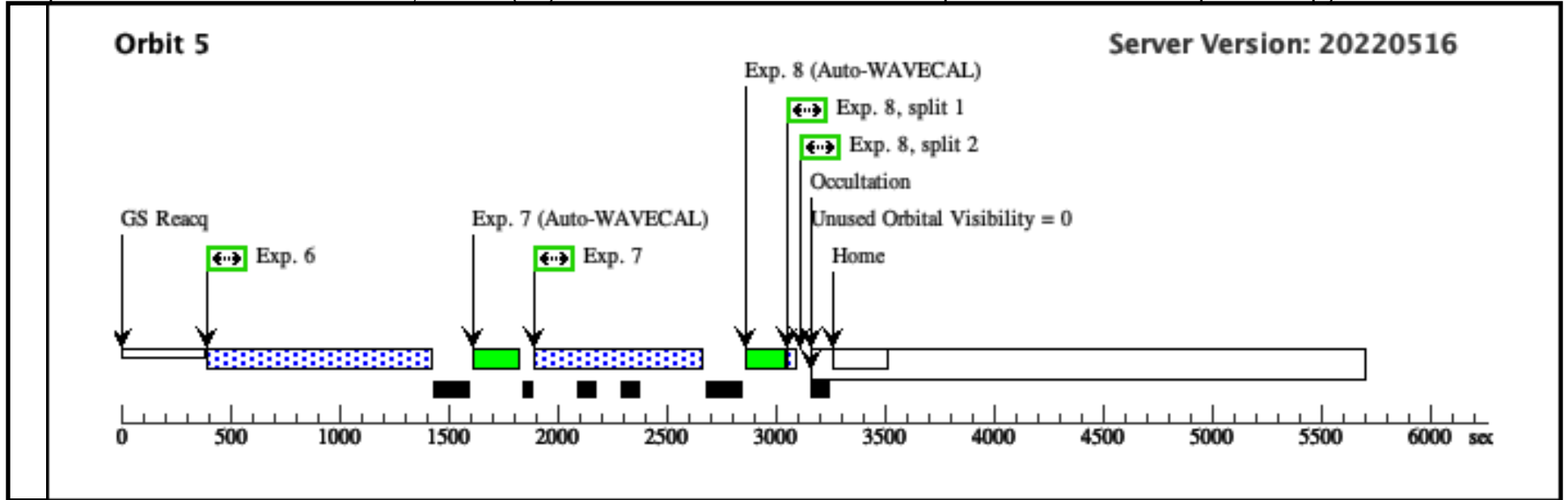
Server Version: 20220516



Orbit 4

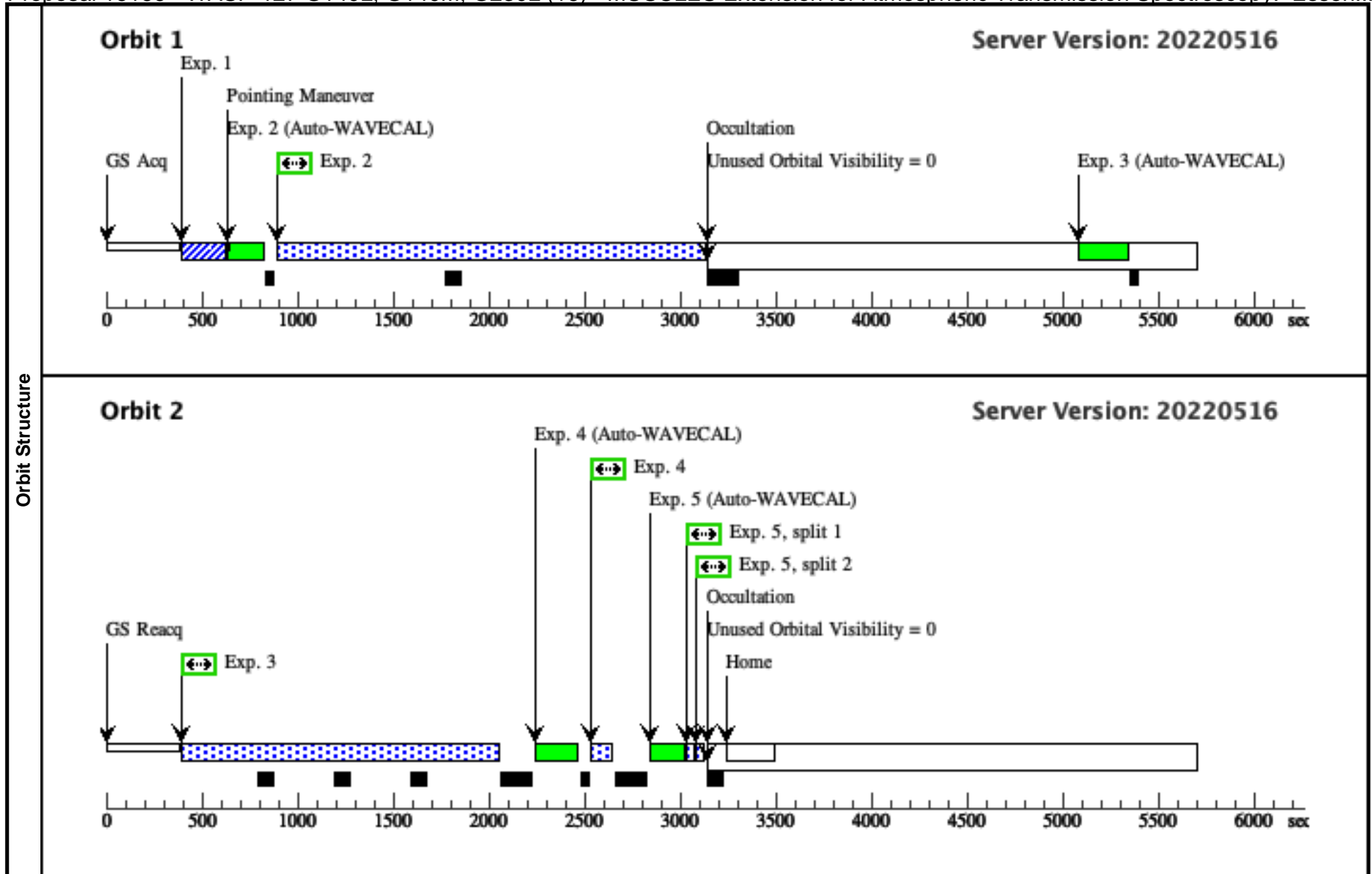
Server Version: 20220516





Proposal 16166 - WASP-127 G140L, G140M, G230L (16) - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essen...

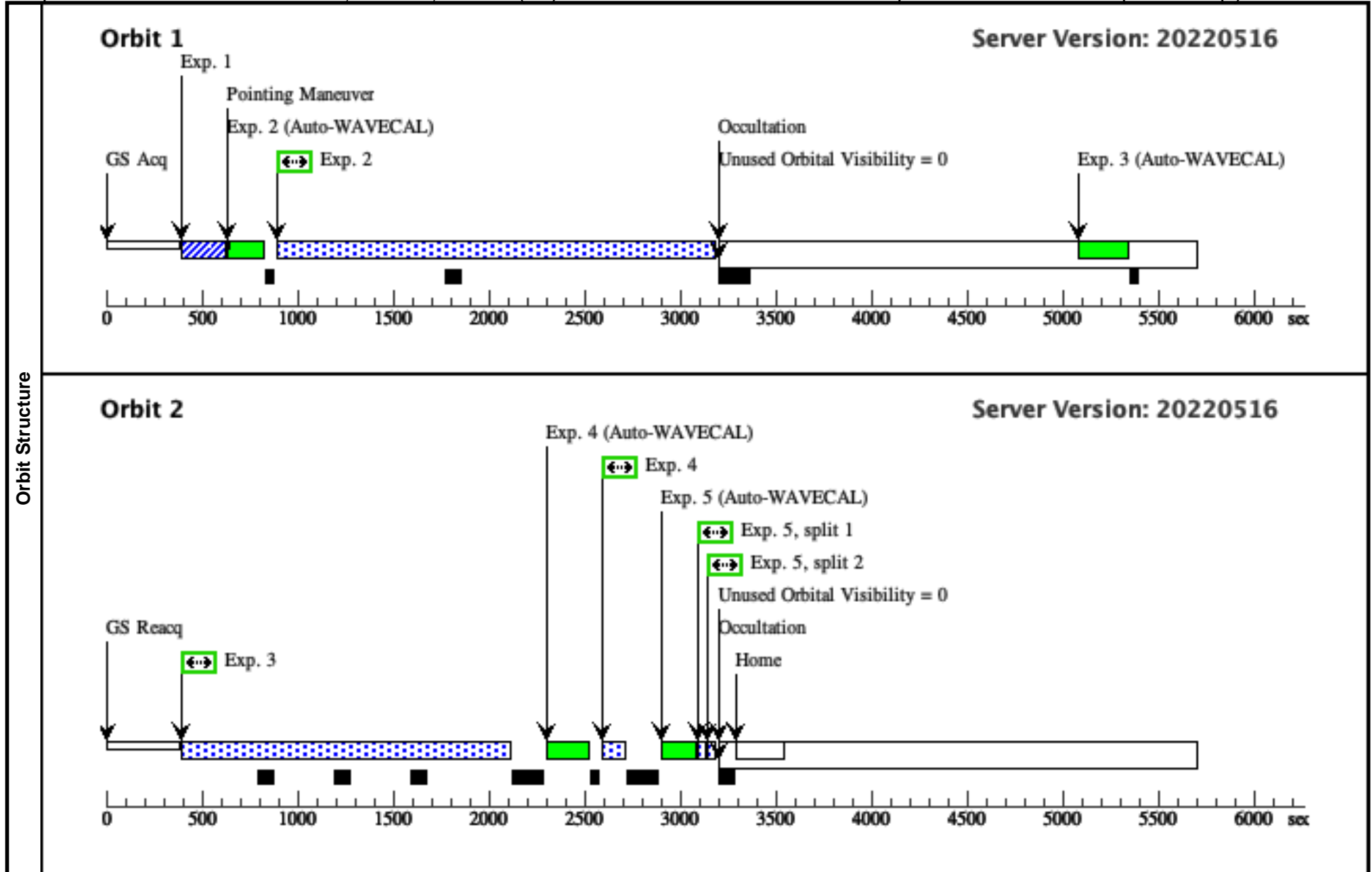
Visit	<p>Proposal 16166, WASP-127 G140L, G140M, G230L (16), completed Thu Jul 07 15:00:54 GMT 2022 Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: (none)</p>																																																																																																													
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>(10)</td> <td>BD-03-2978</td> <td>RA: 10 42 14.1035 (160.5587646d) Dec: -03 50 6.00 (-3.83500d) Equinox: J2000</td> <td>Proper Motion RA: 0.0012844762003568792 sec of time/yr Proper Motion Dec: 0.017026 arcsec/yr Epoch of Position: 2015.5</td> <td>V=10.172</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=EXT-STAR Description=[G V-IV]</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(10)	BD-03-2978	RA: 10 42 14.1035 (160.5587646d) Dec: -03 50 6.00 (-3.83500d) Equinox: J2000	Proper Motion RA: 0.0012844762003568792 sec of time/yr Proper Motion Dec: 0.017026 arcsec/yr Epoch of Position: 2015.5	V=10.172	Reference Frame: ICRS																																																																																								
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(10)	BD-03-2978	RA: 10 42 14.1035 (160.5587646d) Dec: -03 50 6.00 (-3.83500d) Equinox: J2000	Proper Motion RA: 0.0012844762003568792 sec of time/yr Proper Motion Dec: 0.017026 arcsec/yr Epoch of Position: 2015.5	V=10.172	Reference Frame: ICRS																																																																																																									
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>WASP-127_ (10) vis1_acq (STIS.ta.144 5471)</td> <td>BD-03-2978</td> <td>STIS/CCD, ACQ, F28X50LP</td> <td>MIRROR</td> <td>ACQTYPE=POINT</td> <td></td> <td></td> <td>0.1 Secs (0.1 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>WASP-127_ (10) vis1a_G140L (STIS.sp.14 11836)</td> <td>BD-03-2978</td> <td>STIS/FUV-MAMA, TIME-TAG, 52X0.2</td> <td>G140L 1425 A</td> <td>BUFFER-TIME=89 0</td> <td></td> <td></td> <td>2222 Secs (2222 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i></td> </tr> <tr> <td>3</td> <td>WASP-127_ (10) vis1a_G140M (STIS.sp.14 12621)</td> <td>BD-03-2978</td> <td>STIS/FUV-MAMA, TIME-TAG, 52X0.2</td> <td>G140M 1222 A</td> <td>BUFFER-TIME=40 0</td> <td></td> <td></td> <td>1647 Secs (1647 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td colspan="10"><i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i></td> </tr> <tr> <td>4</td> <td>WASP-127_ (10) vis1a_G230L (STIS.sp.14 12540)</td> <td>BD-03-2978</td> <td>STIS/NUV-MAMA, TIME-TAG, 52X0.2</td> <td>G230L 2376 A</td> <td>BUFFER-TIME=20 0</td> <td></td> <td></td> <td>100 Secs (100 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td colspan="10"><i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i></td> </tr> <tr> <td>5</td> <td>WASP-127_ (10) vis1a_G430L (STIS.sp.14 45472)</td> <td>BD-03-2978</td> <td>STIS/CCD, ACCUM, 52X0.2</td> <td>G430L 4300 A</td> <td></td> <td></td> <td></td> <td>5 Secs (5 Secs) [==>(Split 1)] [==>(Split 2)]</td> <td>[2]</td> </tr> <tr> <td colspan="10"><i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i></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	WASP-127_ (10) vis1_acq (STIS.ta.144 5471)	BD-03-2978	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs) [==>]	[1]	2	WASP-127_ (10) vis1a_G140L (STIS.sp.14 11836)	BD-03-2978	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=89 0			2222 Secs (2222 Secs) [==>]	[1]	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										3	WASP-127_ (10) vis1a_G140M (STIS.sp.14 12621)	BD-03-2978	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	BUFFER-TIME=40 0			1647 Secs (1647 Secs) [==>]	[2]	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										4	WASP-127_ (10) vis1a_G230L (STIS.sp.14 12540)	BD-03-2978	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=20 0			100 Secs (100 Secs) [==>]	[2]	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										5	WASP-127_ (10) vis1a_G430L (STIS.sp.14 45472)	BD-03-2978	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				5 Secs (5 Secs) [==>(Split 1)] [==>(Split 2)]	[2]	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																																																																					
1	WASP-127_ (10) vis1_acq (STIS.ta.144 5471)	BD-03-2978	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs) [==>]	[1]																																																																																																					
2	WASP-127_ (10) vis1a_G140L (STIS.sp.14 11836)	BD-03-2978	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=89 0			2222 Secs (2222 Secs) [==>]	[1]																																																																																																					
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>																																																																																																														
3	WASP-127_ (10) vis1a_G140M (STIS.sp.14 12621)	BD-03-2978	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	BUFFER-TIME=40 0			1647 Secs (1647 Secs) [==>]	[2]																																																																																																					
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>																																																																																																														
4	WASP-127_ (10) vis1a_G230L (STIS.sp.14 12540)	BD-03-2978	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=20 0			100 Secs (100 Secs) [==>]	[2]																																																																																																					
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>																																																																																																														
5	WASP-127_ (10) vis1a_G430L (STIS.sp.14 45472)	BD-03-2978	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				5 Secs (5 Secs) [==>(Split 1)] [==>(Split 2)]	[2]																																																																																																					
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>																																																																																																														



Proposal 16166 - TOI-193 G140L, G140M, G230L (17) - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essential...

Thu Jul 07 15:00:54 GMT 2022

Visit	<p>Proposal 16166, TOI-193 G140L, G140M, G230L (17), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: (none)</p> <p><i>Comments: (originally: Target field failed to compile a confirmation chart.)</i></p> <p><i>UPDATED COORDS, kf, 12/3/20. This corrected the confirmation chart.</i></p>																																																																																																													
	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>(15)</td> <td>TOI-193NEWCOORDS Alt Name1: CD-38-15670</td> <td>RA: 23 54 40.5304 (358.6688767d) Dec: -37 37 41.61 (-37.62822d) Equinox: J2000</td> <td>Proper Motion RA: 0.020843303178745425 sec of time/yr Proper Motion Dec: -0.06980099994962075 arcsec/yr Epoch of Position: 2015.5</td> <td>V=9.76</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Updated following Gaia APT discussion with CS Svea Hernandez, 12/03/20</i> Category=EXT-STAR Description=[G V-IV] Extended=NO</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(15)	TOI-193NEWCOORDS Alt Name1: CD-38-15670	RA: 23 54 40.5304 (358.6688767d) Dec: -37 37 41.61 (-37.62822d) Equinox: J2000	Proper Motion RA: 0.020843303178745425 sec of time/yr Proper Motion Dec: -0.06980099994962075 arcsec/yr Epoch of Position: 2015.5	V=9.76	Reference Frame: ICRS																																																																																							
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																																																																								
(15)	TOI-193NEWCOORDS Alt Name1: CD-38-15670	RA: 23 54 40.5304 (358.6688767d) Dec: -37 37 41.61 (-37.62822d) Equinox: J2000	Proper Motion RA: 0.020843303178745425 sec of time/yr Proper Motion Dec: -0.06980099994962075 arcsec/yr Epoch of Position: 2015.5	V=9.76	Reference Frame: ICRS																																																																																																									
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>TOI-193_vis 1_acq (STIS.ta.144 5473)</td> <td>(15) TOI-193NEWC OORDS</td> <td>STIS/CCD, ACQ, F28X50LP</td> <td>MIRROR</td> <td>ACQTYPE=POINT</td> <td></td> <td></td> <td>0.1 Secs (0.1 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>TOI-193_vis 1a_G140L (STIS.sp.14 11836)</td> <td>(15) TOI-193NEWC OORDS</td> <td>STIS/FUV-MAMA, TIME-TAG, 52X0.2</td> <td>G140L 1425 A</td> <td>BUFFER-TIME=89 0</td> <td></td> <td></td> <td>2280 Secs (2280 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i></td> </tr> <tr> <td>3</td> <td>TOI-193_vis 1a_G140M (STIS.sp.14 12621)</td> <td>(15) TOI-193NEWC OORDS</td> <td>STIS/FUV-MAMA, TIME-TAG, 52X0.2</td> <td>G140M 1222 A</td> <td>BUFFER-TIME=40 0</td> <td></td> <td></td> <td>1700 Secs (1700 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td colspan="10"><i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i></td> </tr> <tr> <td>4</td> <td>TOI-193_vis 1a_G230L (STIS.sp.14 12540)</td> <td>(15) TOI-193NEWC OORDS</td> <td>STIS/NUV-MAMA, TIME-TAG, 52X0.2</td> <td>G230L 2376 A</td> <td>BUFFER-TIME=20 0</td> <td></td> <td></td> <td>105 Secs (105 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td colspan="10"><i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i></td> </tr> <tr> <td>5</td> <td>TOI-193_vis 1a_G430L (STIS.sp.14 45474)</td> <td>(15) TOI-193NEWC OORDS</td> <td>STIS/CCD, ACCUM, 52X0.2</td> <td>G430L 4300 A</td> <td></td> <td></td> <td></td> <td>5 Secs (5 Secs) [==>(Split 1)] [==>(Split 2)]</td> <td>[2]</td> </tr> <tr> <td colspan="10"><i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i></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	TOI-193_vis 1_acq (STIS.ta.144 5473)	(15) TOI-193NEWC OORDS	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs) [==>]	[1]	2	TOI-193_vis 1a_G140L (STIS.sp.14 11836)	(15) TOI-193NEWC OORDS	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=89 0			2280 Secs (2280 Secs) [==>]	[1]	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										3	TOI-193_vis 1a_G140M (STIS.sp.14 12621)	(15) TOI-193NEWC OORDS	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	BUFFER-TIME=40 0			1700 Secs (1700 Secs) [==>]	[2]	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										4	TOI-193_vis 1a_G230L (STIS.sp.14 12540)	(15) TOI-193NEWC OORDS	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=20 0			105 Secs (105 Secs) [==>]	[2]	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>										5	TOI-193_vis 1a_G430L (STIS.sp.14 45474)	(15) TOI-193NEWC OORDS	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				5 Secs (5 Secs) [==>(Split 1)] [==>(Split 2)]	[2]	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									
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	3	TOI-193_vis 1a_G140M (STIS.sp.14 12621)	(15) TOI-193NEWC OORDS	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	BUFFER-TIME=40 0			1700 Secs (1700 Secs) [==>]	[2]																																																																																																				
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4	TOI-193_vis 1a_G230L (STIS.sp.14 12540)	(15) TOI-193NEWC OORDS	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=20 0			105 Secs (105 Secs) [==>]	[2]																																																																																																					
<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>																																																																																																														
5	TOI-193_vis 1a_G430L (STIS.sp.14 45474)	(15) TOI-193NEWC OORDS	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				5 Secs (5 Secs) [==>(Split 1)] [==>(Split 2)]	[2]																																																																																																					
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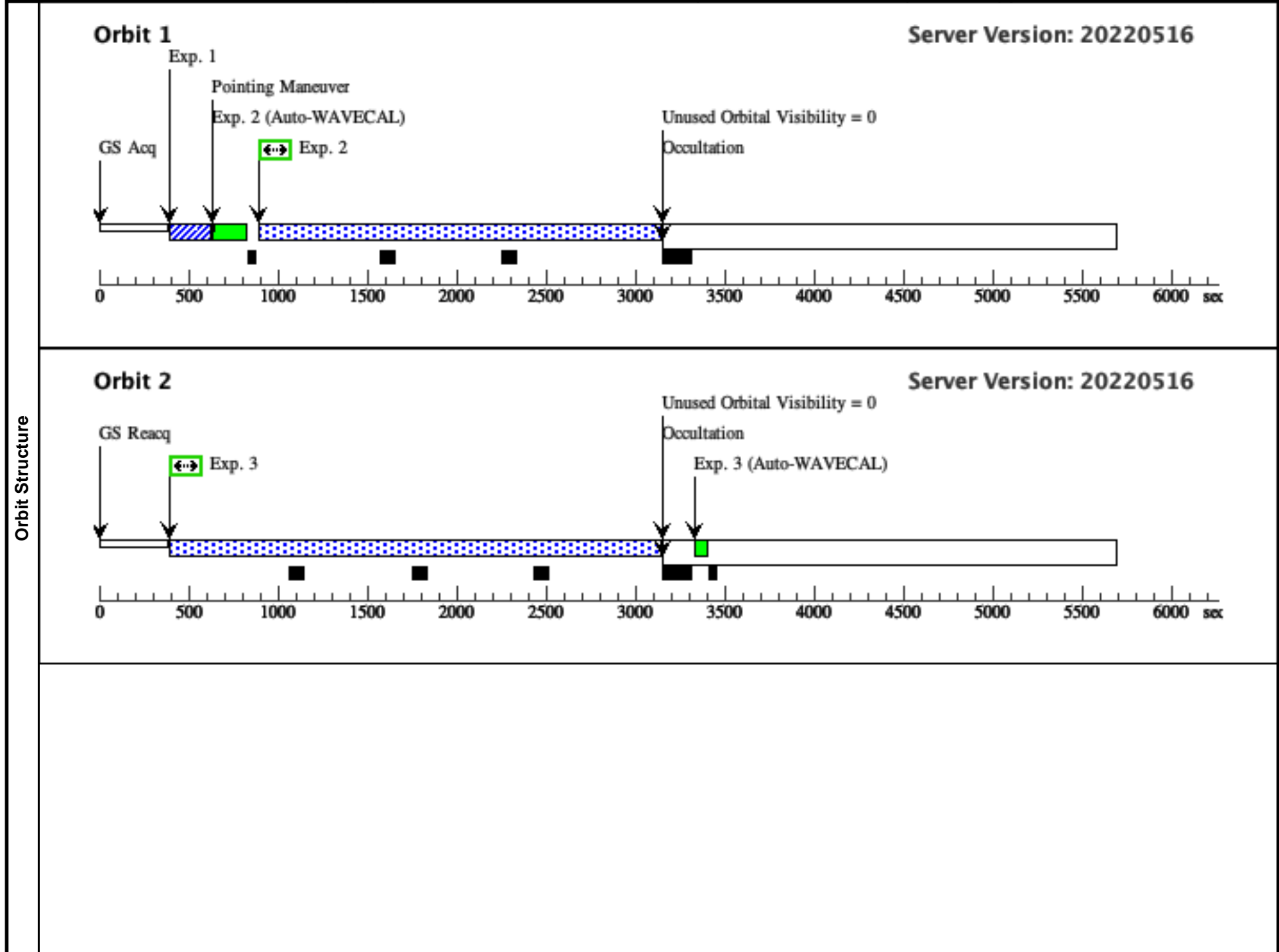


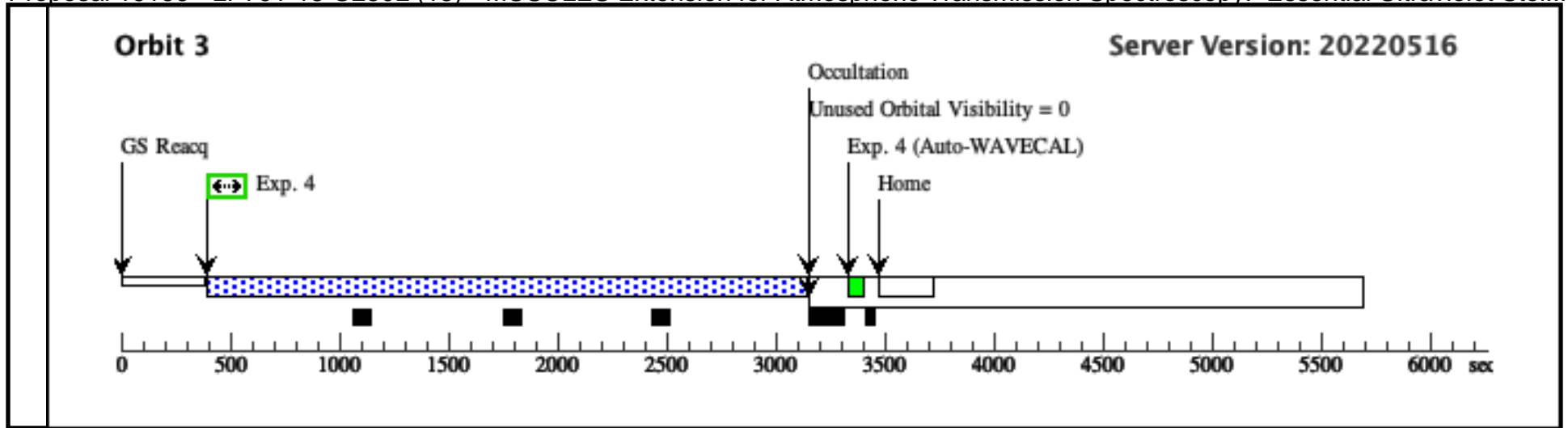
Orbit Structure

Proposal 16166 - LP791-18 G230L (18) - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essential Ultraviolet Stel...

Thu Jul 07 15:00:54 GMT 2022

Visit	Proposal 16166, LP791-18 G230L (18), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	LP-791-18	RA: 11 02 45.7162 (165.6904842d) Dec: -16 24 23.20 (-16.40644d) Equinox: J2000	Proper Motion RA: -0.01536412659246129 sec of time/yr Proper Motion Dec: -0.05899900006625103 arcsec/yr Epoch of Position: 2015.5	V=16.9+/-0.1	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=EXT-STAR Description=[M V-IV]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	LP791-18_v is2_acq (STIS.ta.144 5475)	(12) LP-791-18	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			1.0 Secs (1 Secs) [==>]	[1]
	2	LP791-18_v is2a_G230L (STIS.sp.14 12560)	(12) LP-791-18	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=68 0			2232 Secs (2232 Secs) [==>]	[1]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									
	3	LP791-18_v is2b_G230L (STIS.sp.14 12560)	(12) LP-791-18	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=68 0			2736 Secs (2736 Secs) [==>]	[2]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									
	4	LP791-18_v is2c_G230L (STIS.sp.14 12560)	(12) LP-791-18	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=68 0			2736 Secs (2736 Secs) [==>]	[3]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									

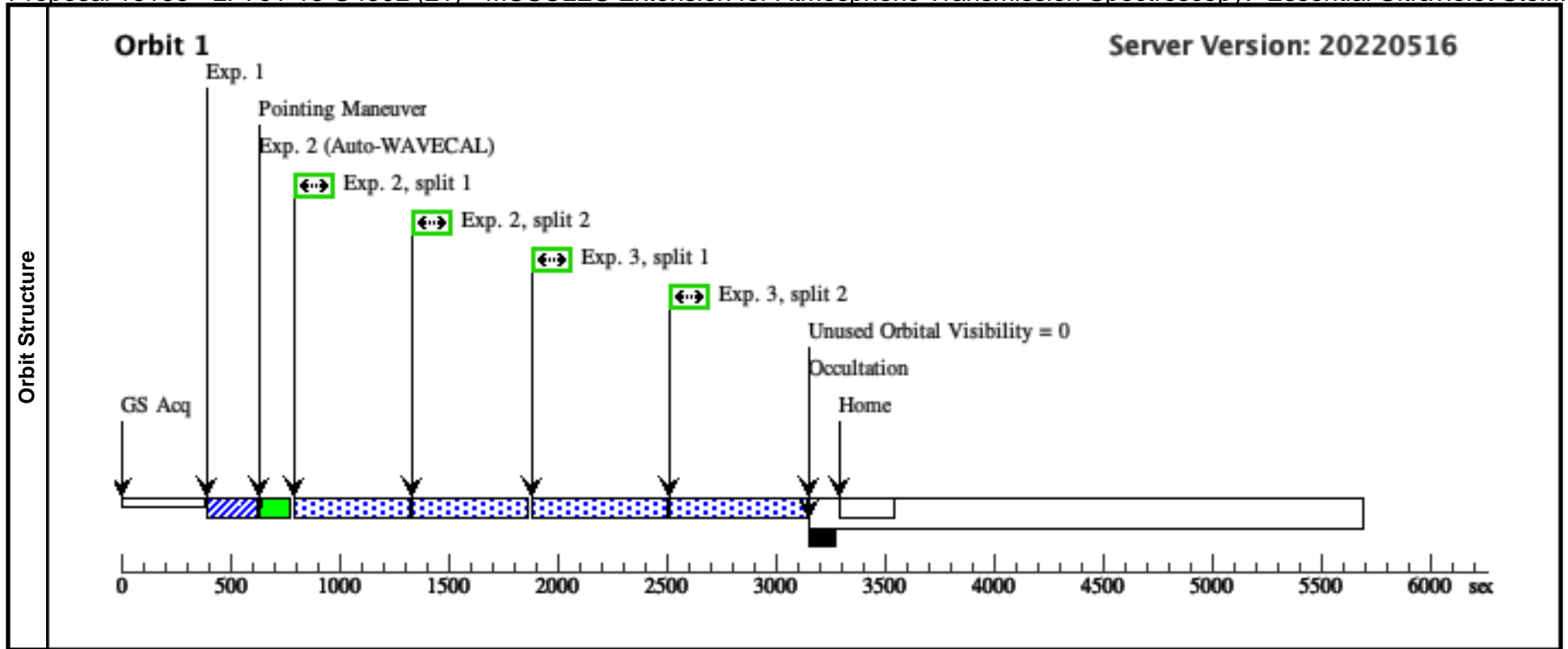




Proposal 16166 - LP791-18 G430L (21) - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essential Ultraviolet Stel...

Thu Jul 07 15:00:54 GMT 2022

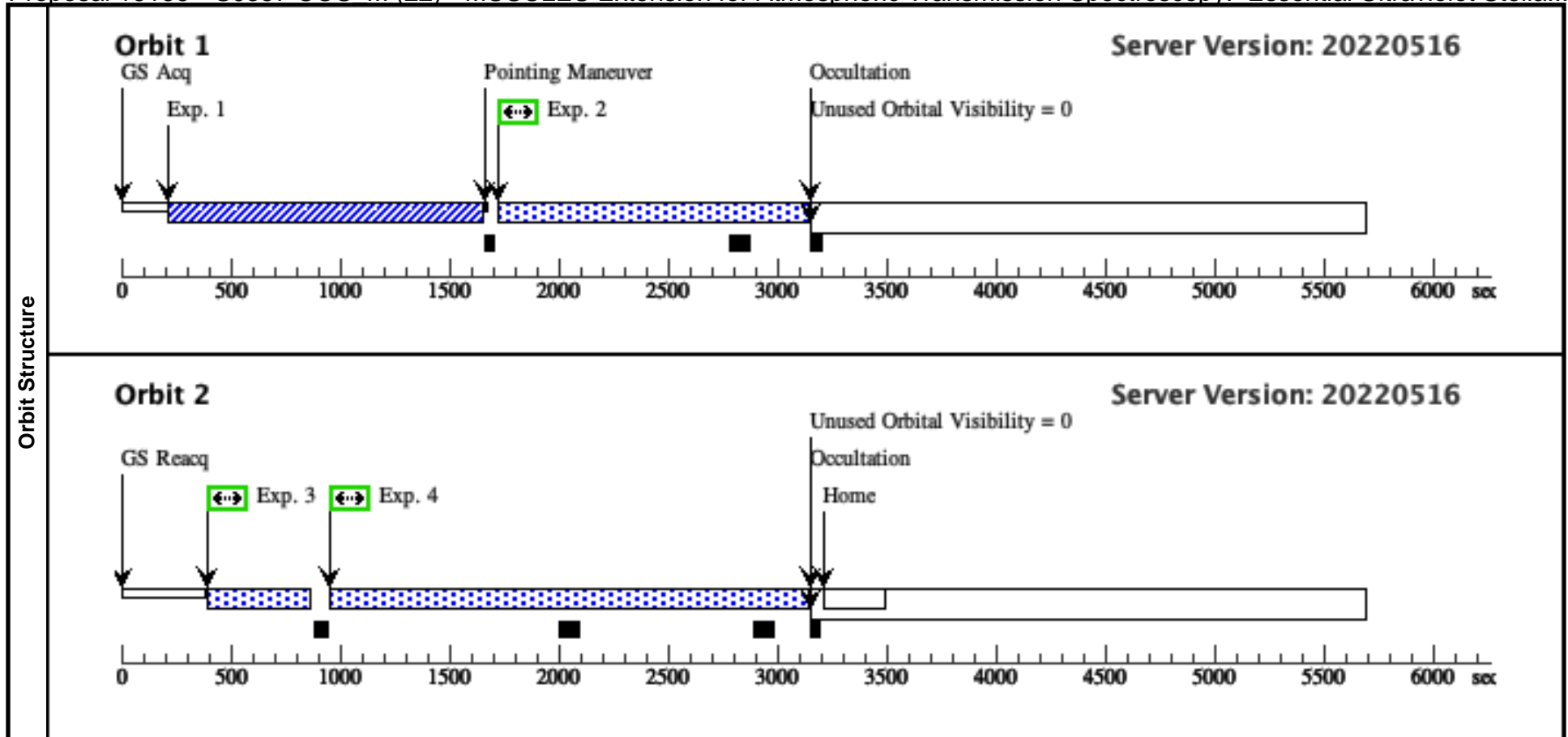
Visit	Proposal 16166, LP791-18 G430L (21), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	LP-791-18	RA: 11 02 45.7162 (165.6904842d) Dec: -16 24 23.20 (-16.40644d) Equinox: J2000	Proper Motion RA: -0.01536412659246129 sec of time/yr Proper Motion Dec: -0.05899900006625103 arcsec/yr Epoch of Position: 2015.5	V=16.9+/-0.1	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=EXT-STAR Description=[M V-IV]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	LP791-18_v is2_acq (STIS.ta.144 5475)	(12) LP-791-18	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			1.0 Secs (1 Secs) [==>]	[1]
	2	LP791-18_v is1a_G430L (STIS.sp.14 45476)	(12) LP-791-18	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				1000 Secs (1000 Secs) [==>(Split 1)] [==>(Split 2)]	[1]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									
	3	LP791-18_v is1b_G430L (STIS.sp.14 45476)	(12) LP-791-18	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				1180 Secs (1180 Secs) [==>(Split 1)] [==>(Split 2)]	[1]
	<i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i>									



Proposal 16166 - GJ357 COS M (22) - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essential Ultraviolet Stella...

Thu Jul 07 15:00:54 GMT 2022

Visit	Proposal 16166, GJ357 COS_M (22), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(GJ357 COS_M (22)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(13)	L-678-39 Alt Name1: GJ357	RA: 09 36 1.7915 (144.0074646d) Dec: -21 39 54.23 (-21.66506d) Equinox: J2000	Proper Motion RA: 0.009949091852466136 sec of time/yr Proper Motion Dec: -0.9903110000777815 arcsec/yr Epoch of Position: 2015.5	V=10.906	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=EXT-STAR Description=[M V-IV] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	GJ357_vis1_acq (COS.ta.1477927)	(13) L-678-39	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				600 Secs (600 Secs) [==>]	[1]
	2	GJ357_vis1_a_COS130M (COS.sp.1476295)	(13) L-678-39	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=89 0; FP-POS=1			1231 Secs (1231 Secs) [==>]	[1]
	Comments: M dwarf flare clearing: C IV: COS.sp.1476342 Si IV: COS.sp.1476341									
	3	GJ357_vis1_a_COS130M (COS.sp.1476295)	(13) L-678-39	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=89 0; FP-POS=1			424 Secs (424 Secs) [==>]	[2]
4	GJ357_vis1_a_COS160M (COS.sp.1476345)	(13) L-678-39	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=89 0; FP-POS=1			2010 Secs (2010 Secs) [==>]	[2]	
Comments: M dwarf flare clearing: C IV: COS.sp.1476342 Si IV: COS.sp.1476341										



Proposal 16166 - GJ357 G140M, G230L, G430L (20) - MUSCLES Extension for Atmospheric Transmission Spectroscopy: Essential ...

Visit	Proposal 16166, GJ357 G140M, G230L, G430L (20), completed Thu Jul 07 15:00:54 GMT 2022 Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: GROUP 20,22 WITHIN 6D																																																												
	Fixed Targets	<table border="1" style="width: 100%; border-collapse: collapse;"> <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>(13)</td> <td>L-678-39 Alt Name1: GJ357</td> <td>RA: 09 36 1.7915 (144.0074646d) Dec: -21 39 54.23 (-21.66506d) Equinox: J2000</td> <td>Proper Motion RA: 0.009949091852466136 sec of time/yr Proper Motion Dec: -0.9903110000777815 arcsec/yr Epoch of Position: 2015.5</td> <td>V=10.906</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=EXT-STAR Description=[M V-IV] Extended=NO</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(13)	L-678-39 Alt Name1: GJ357	RA: 09 36 1.7915 (144.0074646d) Dec: -21 39 54.23 (-21.66506d) Equinox: J2000	Proper Motion RA: 0.009949091852466136 sec of time/yr Proper Motion Dec: -0.9903110000777815 arcsec/yr Epoch of Position: 2015.5	V=10.906	Reference Frame: ICRS																																						
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(13)	L-678-39 Alt Name1: GJ357	RA: 09 36 1.7915 (144.0074646d) Dec: -21 39 54.23 (-21.66506d) Equinox: J2000	Proper Motion RA: 0.009949091852466136 sec of time/yr Proper Motion Dec: -0.9903110000777815 arcsec/yr Epoch of Position: 2015.5	V=10.906	Reference Frame: ICRS																																																								
Exposures	<table border="1" style="width: 100%; border-collapse: collapse;"> <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>GJ357_vis2_acq (STIS.ta.144 5479)</td> <td>(13) L-678-39</td> <td>STIS/CCD, ACQ, F28X500III</td> <td>MIRROR</td> <td>ACQTYPE=POINT</td> <td></td> <td></td> <td>1.0 Secs (1 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>GJ357_vis2_a_G140M (STIS.sp.14 12625)</td> <td>(13) L-678-39</td> <td>STIS/FUV-MAMA, TIME-TAG, 52X0.2</td> <td>G140M 1222 A</td> <td>BUFFER-TIME=40 0</td> <td></td> <td></td> <td>2123 Secs (2123 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>GJ357_vis2_a_G230L (STIS.sp.14 12624)</td> <td>(13) L-678-39</td> <td>STIS/NUV-MAMA, TIME-TAG, 52X0.2</td> <td>G230L 2376 A</td> <td>BUFFER-TIME=40 0</td> <td></td> <td></td> <td>2236 Secs (2236 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>GJ357_vis1_a_G430L (STIS.sp.14 45480)</td> <td>(13) L-678-39</td> <td>STIS/CCD, ACCUM, 52X0.2</td> <td>G430L 4300 A</td> <td></td> <td></td> <td></td> <td>30 Secs (30 Secs) [==>(Split 1)] [==>(Split 2)]</td> <td>[2]</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	GJ357_vis2_acq (STIS.ta.144 5479)	(13) L-678-39	STIS/CCD, ACQ, F28X500III	MIRROR	ACQTYPE=POINT			1.0 Secs (1 Secs) [==>]	[1]	2	GJ357_vis2_a_G140M (STIS.sp.14 12625)	(13) L-678-39	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	BUFFER-TIME=40 0			2123 Secs (2123 Secs) [==>]	[1]	3	GJ357_vis2_a_G230L (STIS.sp.14 12624)	(13) L-678-39	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=40 0			2236 Secs (2236 Secs) [==>]	[2]	4	GJ357_vis1_a_G430L (STIS.sp.14 45480)	(13) L-678-39	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				30 Secs (30 Secs) [==>(Split 1)] [==>(Split 2)]	[2]	<p><i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i></p> <p><i>Comments: Factor of 1.5 margin added to UV observations to account for E(B-V) beyond LB boundary.</i></p>									
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	3	GJ357_vis2_a_G230L (STIS.sp.14 12624)	(13) L-678-39	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=40 0			2236 Secs (2236 Secs) [==>]	[2]																																																			
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