



15071 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-mass Exoplanetary Systems

Cycle: 25, Proposal Category: GO

(UV Initiative, Treasury, JWST 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) GJ1132	COS/FUV COS/NUV	5	06-May-2019 16:00:32.0	yes
02	(1) GJ1132	COS/FUV COS/NUV	5	06-May-2019 16:00:33.0	yes
03	(1) GJ1132	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	06-May-2019 16:00:35.0	yes
04	(2) GJ676A	STIS/CCD STIS/FUV-MAMA	5	06-May-2019 16:00:38.0	yes
Z4	(2) GJ676A	STIS/CCD STIS/FUV-MAMA	5	06-May-2019 16:00:40.0	yes
05	(2) GJ676A	COS/FUV COS/NUV	5	06-May-2019 16:00:42.0	yes
Z5	(2) GJ676A	COS/FUV COS/NUV	5	06-May-2019 16:00:43.0	yes
06	(2) GJ676A	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	06-May-2019 16:00:46.0	yes
08	(3) GJ15A	STIS/CCD STIS/FUV-MAMA	4	06-May-2019 16:00:48.0	yes
09	(3) GJ15A	STIS/CCD STIS/FUV-MAMA	4	06-May-2019 16:00:50.0	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	(4) GJ649	COS/FUV COS/NUV	5	06-May-2019 16:00:52.0	yes
12	(4) GJ649	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	5	06-May-2019 16:00:54.0	yes
13	(5) GJ163	COS/FUV COS/NUV	5	06-May-2019 16:00:56.0	yes
14	(5) GJ163	COS/FUV COS/NUV	5	06-May-2019 16:00:57.0	yes
15	(5) GJ163	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	06-May-2019 16:01:00.0	yes
16	(6) GJ849	COS/FUV COS/NUV	3	06-May-2019 16:01:01.0	yes
17	(6) GJ849	COS/FUV COS/NUV	5	06-May-2019 16:01:02.0	yes
18	(6) GJ849	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	06-May-2019 16:01:04.0	yes
20	(7) GJ674	COS/FUV COS/NUV	5	06-May-2019 16:01:06.0	yes
21	(7) GJ674	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	06-May-2019 16:01:08.0	yes
22	(8) GJ699	STIS/CCD STIS/FUV-MAMA	3	06-May-2019 16:01:10.0	yes
23	(8) GJ699	COS/FUV COS/NUV	5	06-May-2019 16:01:12.0	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>
24	(8) GJ699	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	3	06-May-2019 16:01:13.0	yes
25	(9) L-980-5	COS/FUV COS/NUV	5	06-May-2019 16:01:15.0	yes
26	(9) L-980-5	COS/FUV COS/NUV	5	06-May-2019 16:01:16.0	yes
27	(9) L-980-5	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	06-May-2019 16:01:18.0	yes
28	(10) LP-756-18	COS/FUV COS/NUV	4	06-May-2019 16:01:19.0	yes
29	(10) LP-756-18	COS/FUV COS/NUV	5	06-May-2019 16:01:20.0	yes
30	(10) LP-756-18	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	3	06-May-2019 16:01:22.0	yes
31	(10) LP-756-18	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	3	06-May-2019 16:01:24.0	yes
33	(11) LHS-2686	COS/FUV	5	06-May-2019 16:01:25.0	yes
34	(11) LHS-2686	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	5	06-May-2019 16:01:28.0	yes
35	(11) LHS-2686	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	5	06-May-2019 16:01:31.0	yes
37	(12) GJ729	STIS/CCD STIS/FUV-MAMA	4	06-May-2019 16:01:33.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
38	(12) GJ729	STIS/CCD STIS/FUV-MAMA	3	06-May-2019 16:01:36.0	yes
39	(13) 2MASS-J23062928-0502285	COS/FUV COS/NUV	4	06-May-2019 16:01:37.0	yes
Z6	(13) 2MASS-J23062928-0502285	COS/FUV COS/NUV	1	06-May-2019 16:01:37.0	yes
40	(13) 2MASS-J23062928-0502285	COS/FUV COS/NUV	5	06-May-2019 16:01:38.0	yes
41	(13) 2MASS-J23062928-0502285	STIS/CCD STIS/FUV-MAMA	5	06-May-2019 16:01:41.0	yes
42	(13) 2MASS-J23062928-0502285	COS/NUV	2	06-May-2019 16:01:42.0	yes

168 Total Orbits Used

ABSTRACT

JWST will be able to observe the atmospheres of rocky planets transiting nearby M dwarfs. A few such planets are already known (around GJ1132, Proxima Cen, and Trappist-1) and TESS is predicted to find many more, including ~14 habitable zone planets. To interpret observations of these exoplanets' atmospheres, we must understand the high-energy SED of their host stars: X-ray/EUV irradiation can erode a planet's gaseous envelope and FUV/NUV-driven photochemistry shapes an atmosphere's molecular abundances, including potential biomarkers like O₂, O₃, and CH₄. Our MUSCLES Treasury Survey (Cycles 19+22) used Hubble/COS+STIS UV observations with contemporaneous X-ray and ground-based data to construct complete SEDs for 11 low-mass exoplanet hosts. MUSCLES is the most widely used database for early-M and K dwarf (>0.3 M_{sun}) irradiance spectra and has supported a wide range of atmospheric stability and biomarker modeling work. However, TESS will find most of its habitable planets transiting stars less massive than this, and these will be the planets to characterize with JWST. Here, we propose to expand the MUSCLES project to: (a) new M dwarf exoplanet hosts with varying properties; (b) reference M dwarfs below 0.3 solar masses that may be used as proxies for M dwarf planet hosts discovered after HST's lifetime; and (c) more rapidly rotating stars of GJ1132's mass to probe XUV evolution over gigayear timescales. We propose to gather the first panchromatic SEDs of rocky planet hosts GJ1132 and Trappist-1. This proposal extends proven methods to a key new sample of stars, upon which critically depends the long-term goal of studying habitable planet atmospheres with JWST and beyond.

OBSERVING DESCRIPTION

The target list was chosen to cover a range of nearby M stars with varying stellar masses, temperatures, rotation periods, and activity levels with a particular focus on low mass M stars for which we have limited UV data. The targets include a mix of M stars with known exoplanets and those without and probe a key phase space for future TESS and JWST observations, including two likely JWST rocky planet targets, GJ1132 and Trappist-1. Five of the targets have super-Earths already detected.

Observing Modes: For a full census of the UV emission incident on the HZs around low-mass stars, we require spectral coverage from 1150--3100 Å: the G130M, G160M, and G230L modes of COS and the G140M and G230L modes of STIS.

In the FUV (excepting Ly α) we will use COS G130M and COS G160M. Emission from Ly α , Si IV, C IV, and He II is particularly interesting because these lines provide constraints on the Lyman continuum/EUV (200-900 Å) irradiance in these systems. COS is essential for a moderate spectral resolution line census as the lower effective area and higher detector background of STIS make observations of all but the very brightest lines (H I Ly α) prohibitively time consuming. We will use the medium resolution COS modes to resolve chromospheric lines and maximize contrast from narrow features. At NUV wavelengths, we will use STIS G230L to observe the > 2200 Å NUV continuum, Fe II 2400 and 2600, and Mg II 2800 features, but we will take advantage of the superior sensitivity of the COS G230L mode to observe the 1750-2100 Å region that is important to the photodissociation of O₂ and the production of O₃. 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.

We will use the G140M mode of STIS with the 52 x 0.1 arcsec slit to measure the Ly α profile for our targets. STIS is needed over COS for Ly α to minimize geocoronal contamination with a narrow slit. 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 in these systems. In our previous programs we demonstrated that this technique can produce high quality measurements of the local Ly α flux (France et al. 2013; Youngblood et al. 2016). Our iterative Ly α reconstruction method is able to reproduce previous high resolution work by Wood et al. (2005) to within 5-30%.

Short duration (minutes to hours) flares are most common on M dwarfs (Kowalski et al. 2009; Loyd & France 2013; France et al. 2016) and we will use the most sensitive UV photon-counting mode on HST (COS G130M) to perform 8-hour variability studies (5 contiguous spacecraft orbits) of characteristic chromospheric and transition region lines (C II, Si III, C IV, Si IV, He II, and N V) for each planet host. This observation strategy

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naturally splits each target campaign into 3 HST visits: 1) COS G130M, 2) COS G160M+G230L, 3) STIS G140M+G230L+G430L that can be linked to within a day of each other. Employing this strategy in APT, we find that each target has several months of visibility during the Cycle 25 observing window.

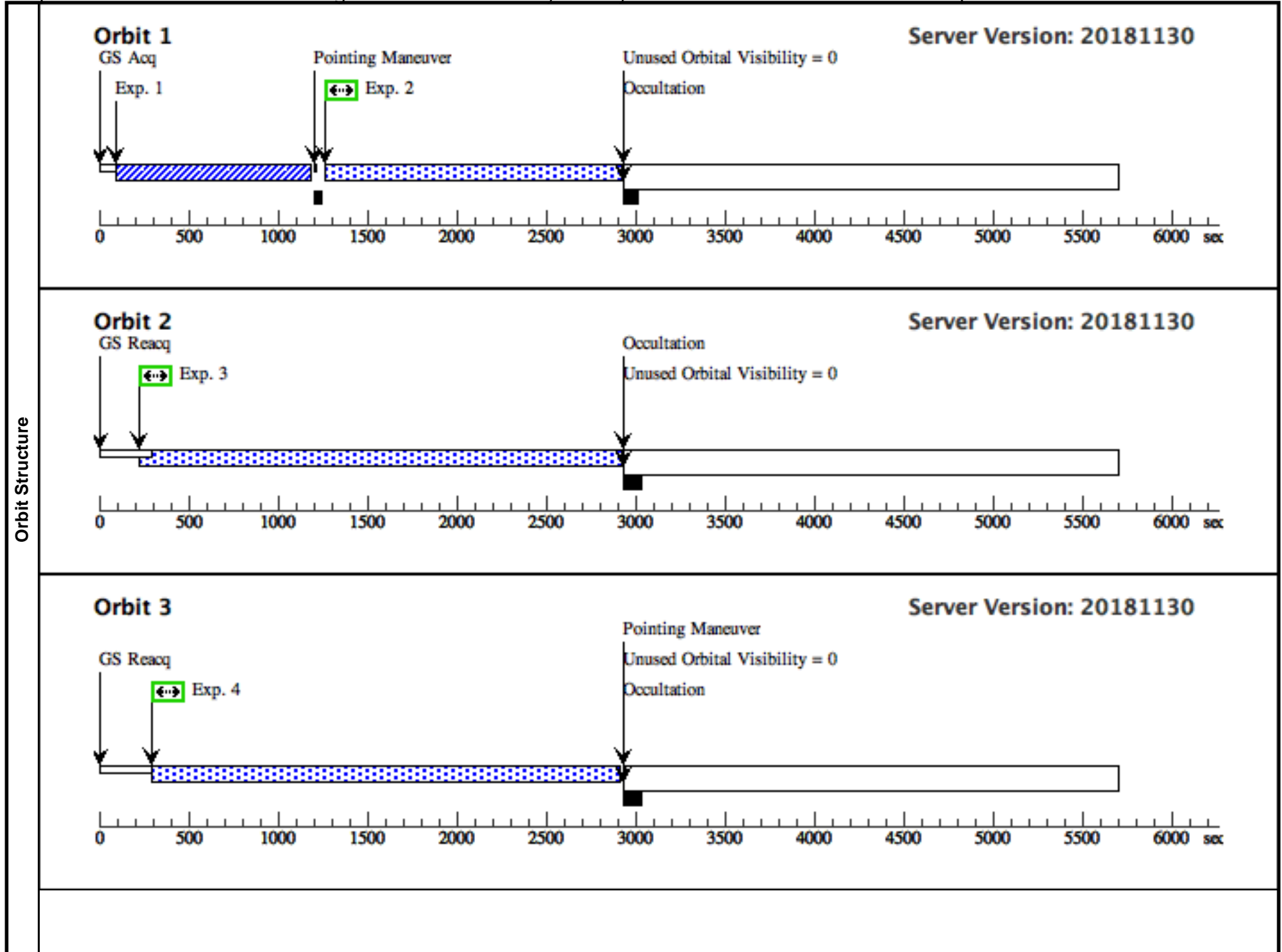
Exposure Time Calculations: We estimated the expected flux from our target sample using the observed quiescent spectrum of GJ 436 (or GJ1214 for the M4 and later stars) scaled to the distance of the target star. The 5 orbit COS G130M variability observations will produce deep spectral observations in the 1150-1420 Å range for all targets. For the remaining UV wavelengths, we estimated exposure times based on the minimum amount of time required to achieve at least $S/N \sim 10$ per resolution element in the characteristic emission lines: Ly alpha (STIS G140M), C IV (COS G160M), and Mg II (STIS G230L). We estimate $S/N \sim 5-10$ in the NUV continuum (2850 Å for STIS G230L) and $S/N > 20$ in the optical (STIS G430L).

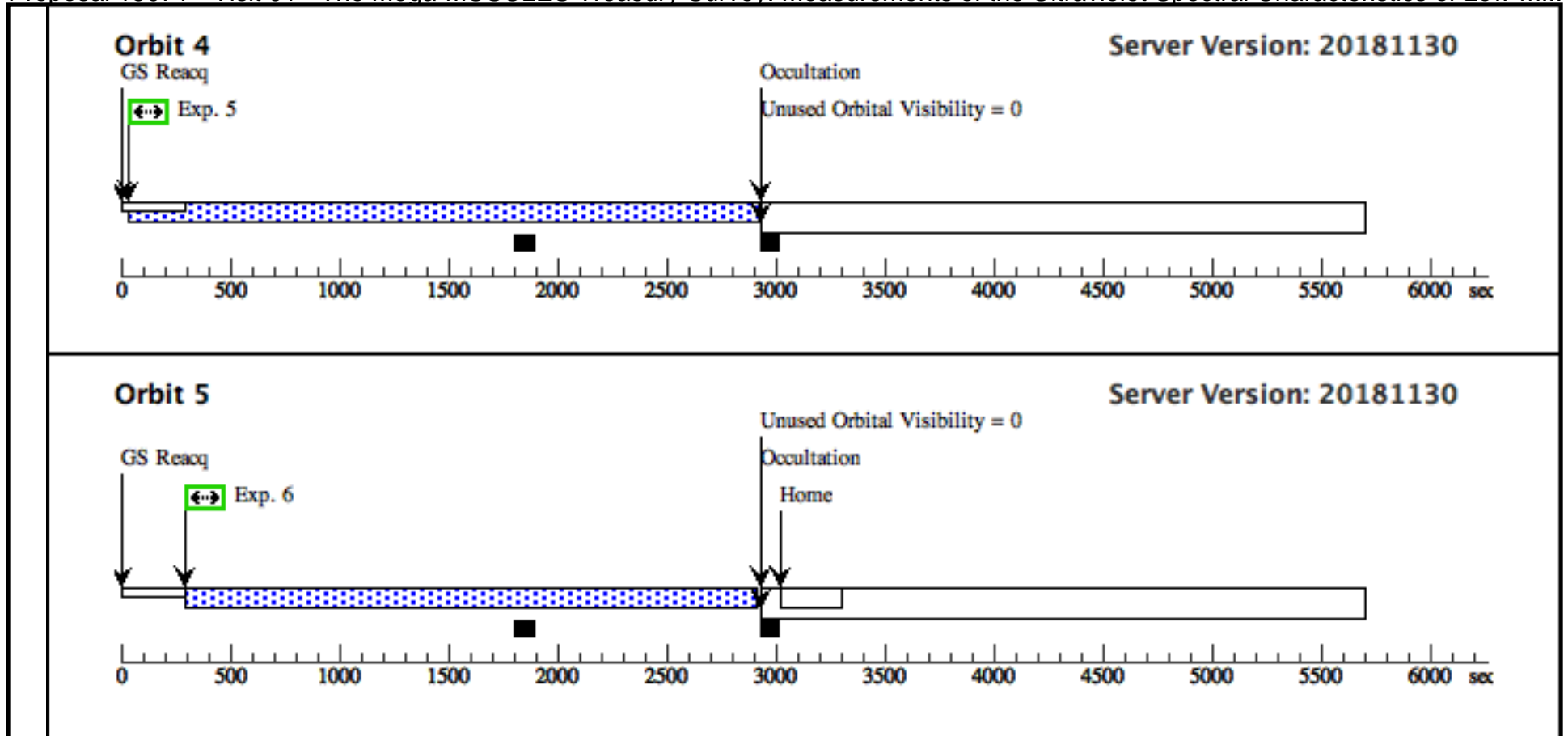
BOT ran for all target fields, 07/19/17. All cleared. Only safety flags were when APT did not know the spectral type of the target star: GJ1132, GJ676A, GJ649, and L980-5.

Proposal 15071 - Visit 01 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:43 GMT 2019

Visit	<p>Proposal 15071, Visit 01, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: PCS MODE FINE; SCHED 100%; GROUP 01,02 WITHIN 72H</p> <p><i>Comments: Input spectra for ETC calculations are the MUSCLES spectrum of GJ436 scaled to the distance of GJ1132 for the FUV observations and GJ876 for the NUV. (GJ876 had a flare during the FUV observations so the lines measured at that time are not quiescent fluxes).</i></p> <p><i>01/25/18: Target acq. needed to be moved from MIRRORA to MIRRORB for BOP. Removed ACQ/SEARCH (image coordinates and proper motions known to sufficient accuracy) and modified ACQ/IMAGE for MIRRORB and new SNR requirement.</i></p>										
	<p>(Visit 01) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p>										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(1)	GJ1132	RA: 10 14 51.7700 (153.7157083d) Dec: -47 09 24.10 (-47.15669d) Equinox: J2000	Proper Motion RA: -1046.0 mas/yr Proper Motion Dec: 416.0 mas/yr Parallax: 0.008307" Epoch of Position: 2000 Radial Velocity: 35 km/sec	V=13.52	Reference Frame: ICRS					
<p><i>Comments: Updated coordinates, PM, parallax, systemic velocity. from Berta-Thompson et al. 2015, Natr., 527, 204.</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]</i></p> <p><i>Extended=NO</i></p>											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	(COS.ta.104 6614)	(1) GJ1132	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				400 Secs (400 Secs)		
									[==>]	[1]	
	2	(COS.sp.100 7183)	(1) GJ1132	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=1; BUFFER-TIME=20 00.0			1508 Secs (1447 Secs)		
									[==>1447.0 Secs]	[1]	
	<p><i>Comments: ETC is run fo CIV 1548 emission. ETC for fainter doublet line (1550) is COS.sp.1006854.</i></p> <p><i>Buffer time set to around the exposure time as per IHB recommendations for targets that could be brighter than ETC value.</i></p>										
	3	(COS.sp.100 7183)	(1) GJ1132	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=2; BUFFER-TIME=28 00.0			2707.0 Secs (2567 Secs)		
								[==>2567.0 Secs]	[2]		
4	(COS.sp.100 7183)	(1) GJ1132	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=3; BUFFER-TIME=28 00.0			2707 Secs (2567 Secs)			
								[==>2567.0 Secs]	[3]		
5	(COS.sp.100 7249)	(1) GJ1132	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=1; BUFFER-TIME=15 00.0			2742 Secs (2602 Secs)			
								[==>2602.0 Secs]	[4]		
6	(COS.sp.100 7249)	(1) GJ1132	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=3; BUFFER-TIME=15 00.0			2744 Secs (2604 Secs)			
								[==>2604.0 Secs]	[5]		

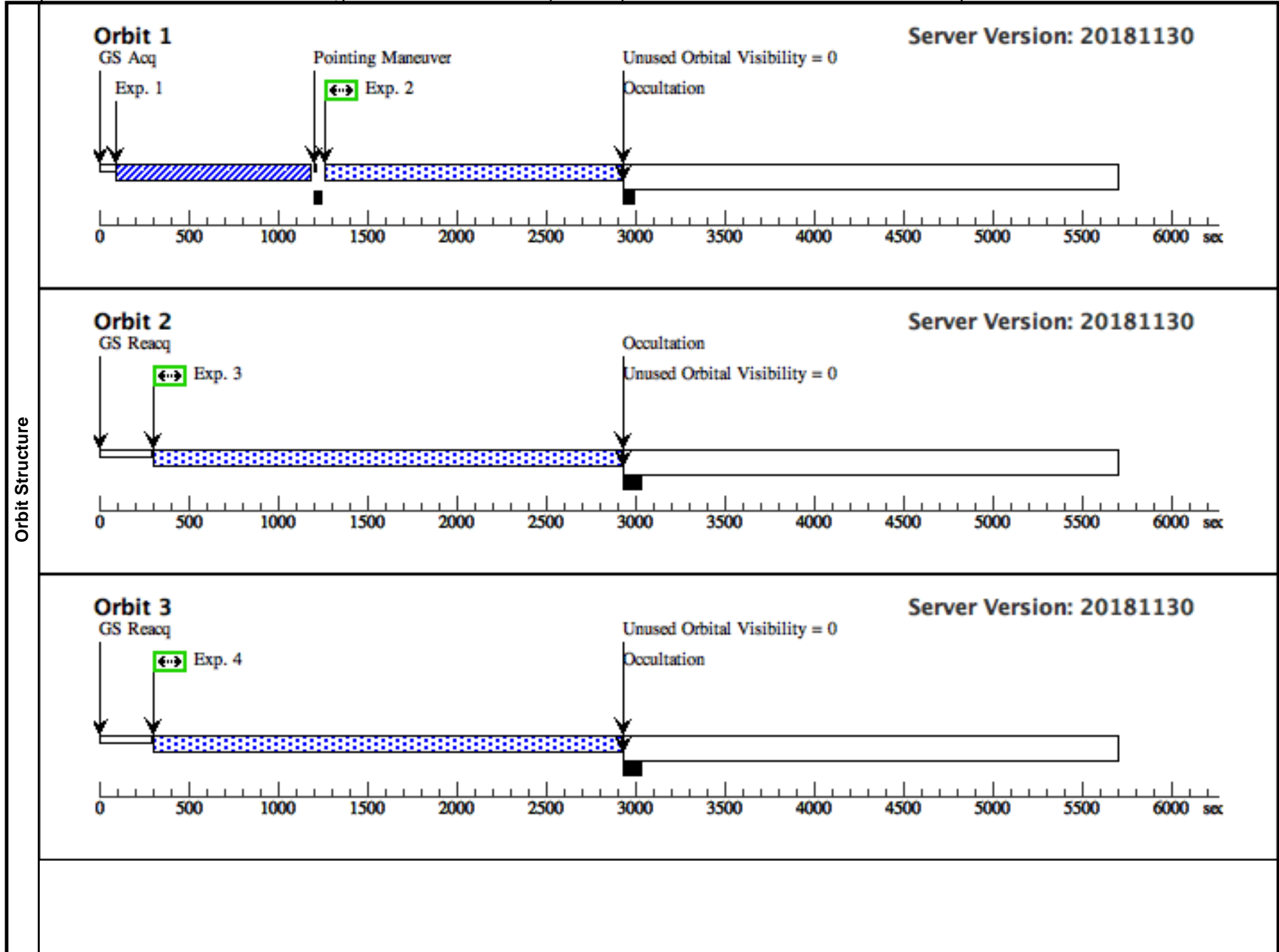


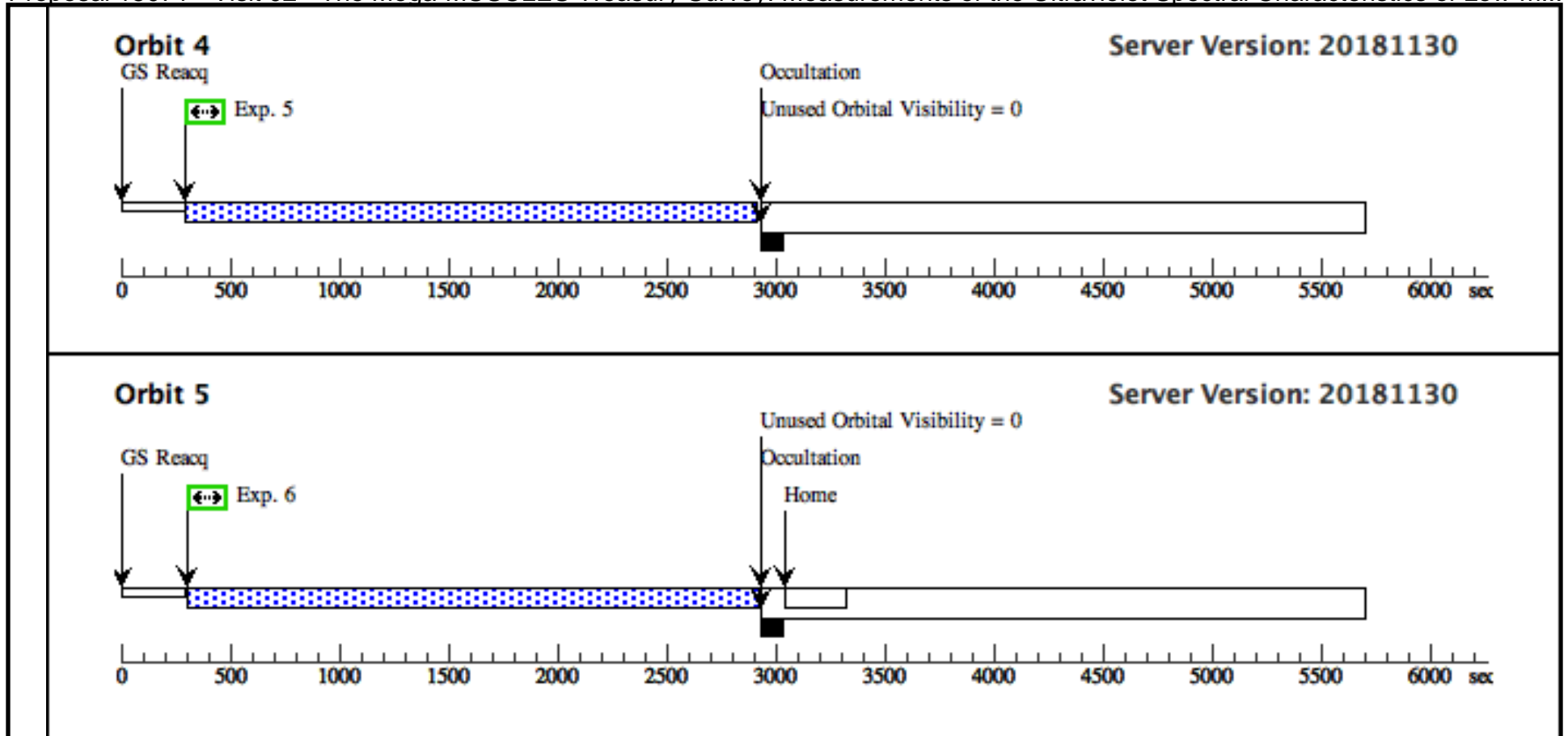


Proposal 15071 - Visit 02 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:43 GMT 2019

Visit	<p>Proposal 15071, Visit 02, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%</p> <p><i>Comments: Input spectra for ETC calculations are the MUSCLES spectrum of GJ436 scaled to the distance of GJ1132 for the FUV observations and GJ876 for the NUV. (GJ876 had a flare during the FUV observations so the lines are not quiescent fluxes).</i></p> <p><i>01/25/18: Target acq. needed to be moved from MIRRORA to MIRRORB for BOP. Removed ACQ/SEARCH (image coordinates and proper motions known to sufficient accuracy) and modified ACQ/IMAGE for MIRRORB and new SNR requirement.</i></p>																																																																											
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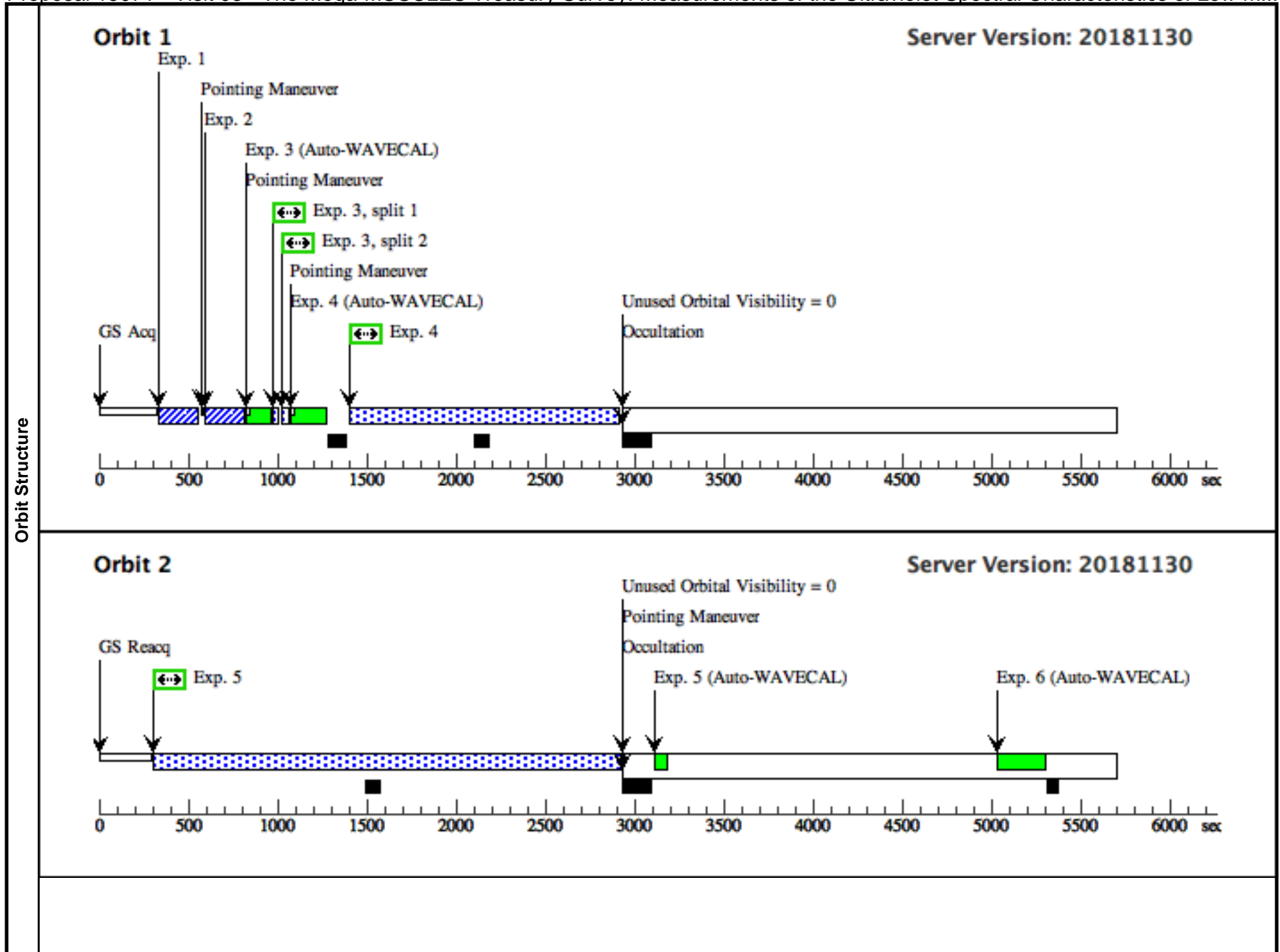


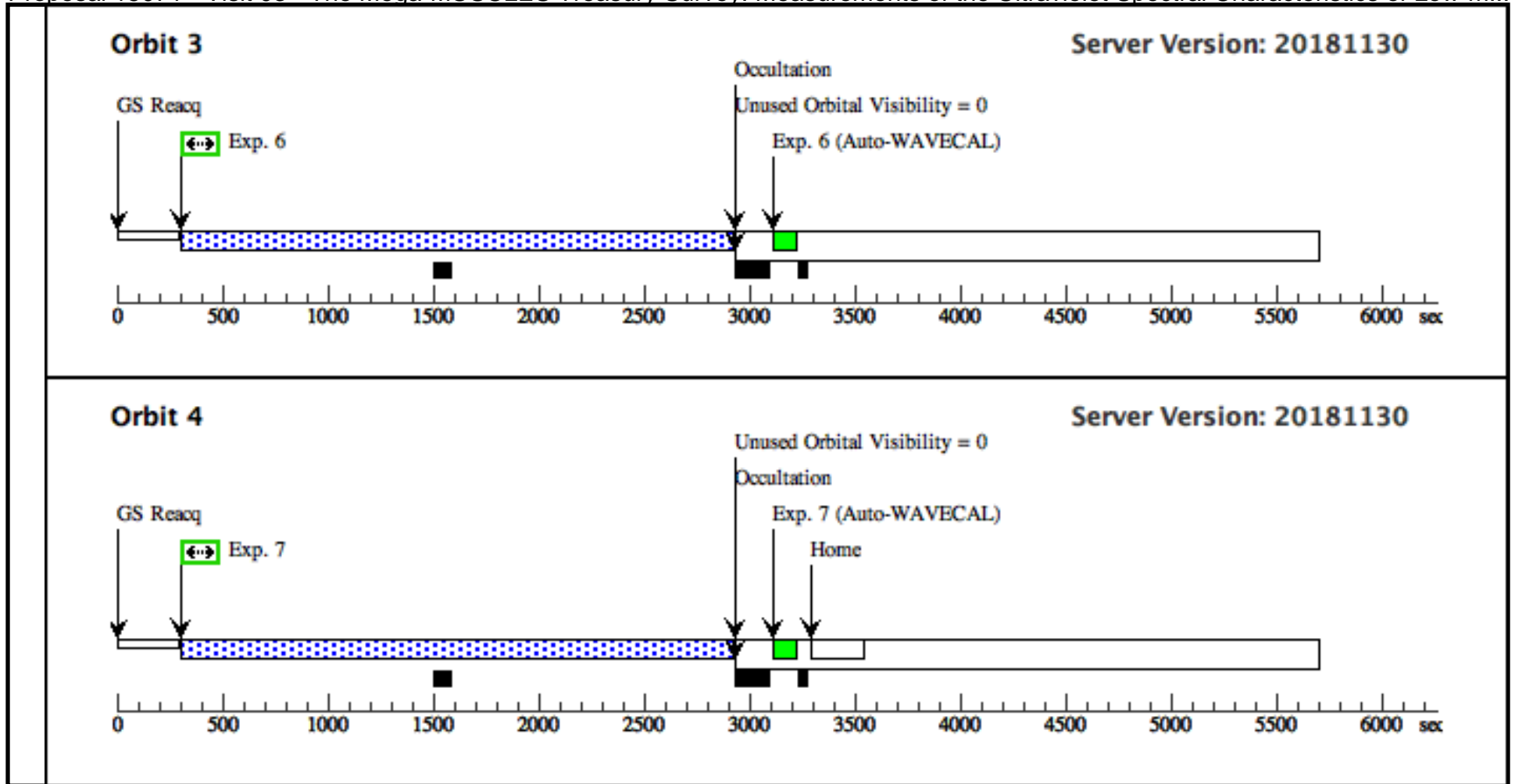


Proposal 15071 - Visit 03 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:43 GMT 2019

Visit		Proposal 15071, Visit 03, completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100%; GROUP 03.02 WITHIN 4D								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	GJ1132	RA: 10 14 51.7700 (153.7157083d) Dec: -47 09 24.10 (-47.15669d) Equinox: J2000	Proper Motion RA: -1046.0 mas/yr Proper Motion Dec: 416.0 mas/yr Parallax: 0.008307" Epoch of Position: 2000 Radial Velocity: 35 km/sec	V=13.52	Reference Frame: ICRS				
<i>Comments: Updated coordinates, PM, parallax, systemic velocity. from Berta-Thompson et al. 2015, Natr., 527, 204.</i> Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, 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	(STIS.ta.100 7288)	(1) GJ1132	STIS/CCD, ACQ, F28X50LP	MIRROR				0.2 Secs (0.2 Secs) [==>]	[1]
	<i>Comments: Following successful target acq. procedures for this target (GO 14757), will use long pass filter to distinguish GJ1132 from a nearby star that is more blue.</i>									
	2	(STIS.ta.100 7455)	(1) GJ1132	STIS/CCD, ACQ/PEAK, 52X0.1	MIRROR				0.2 Secs (0.2 Secs) [==>]	[1]
	3	(STIS.sp.10 07458)	(1) GJ1132	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A				44 Secs (4 Secs) [==>2.0 Secs (Split 1)] [==>2.0 Secs (Split 2)]	[1]
	4	(STIS.sp.10 07559)	(1) GJ1132	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=70 0.0			1519.0 Secs (1499 Secs) [==>1499.0 Secs]	[1]
	5	(STIS.sp.10 07559)	(1) GJ1132	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=12 00.0			2727 Secs (2603 Secs) [==>2603.0 Secs]	[2]
	6	(STIS.sp.10 07536)	(1) GJ1132	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A	BUFFER-TIME=12 00.0			2741 Secs (2601 Secs) [==>2601.0 Secs]	[3]
<i>Comments: Buffer time set below ETC recommendation because target can increase in brightness.</i>										
7	(STIS.sp.10 07536)	(1) GJ1132	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A	BUFFER-TIME=12 00.0			2741 Secs (2601 Secs) [==>2601.0 Secs]	[4]	

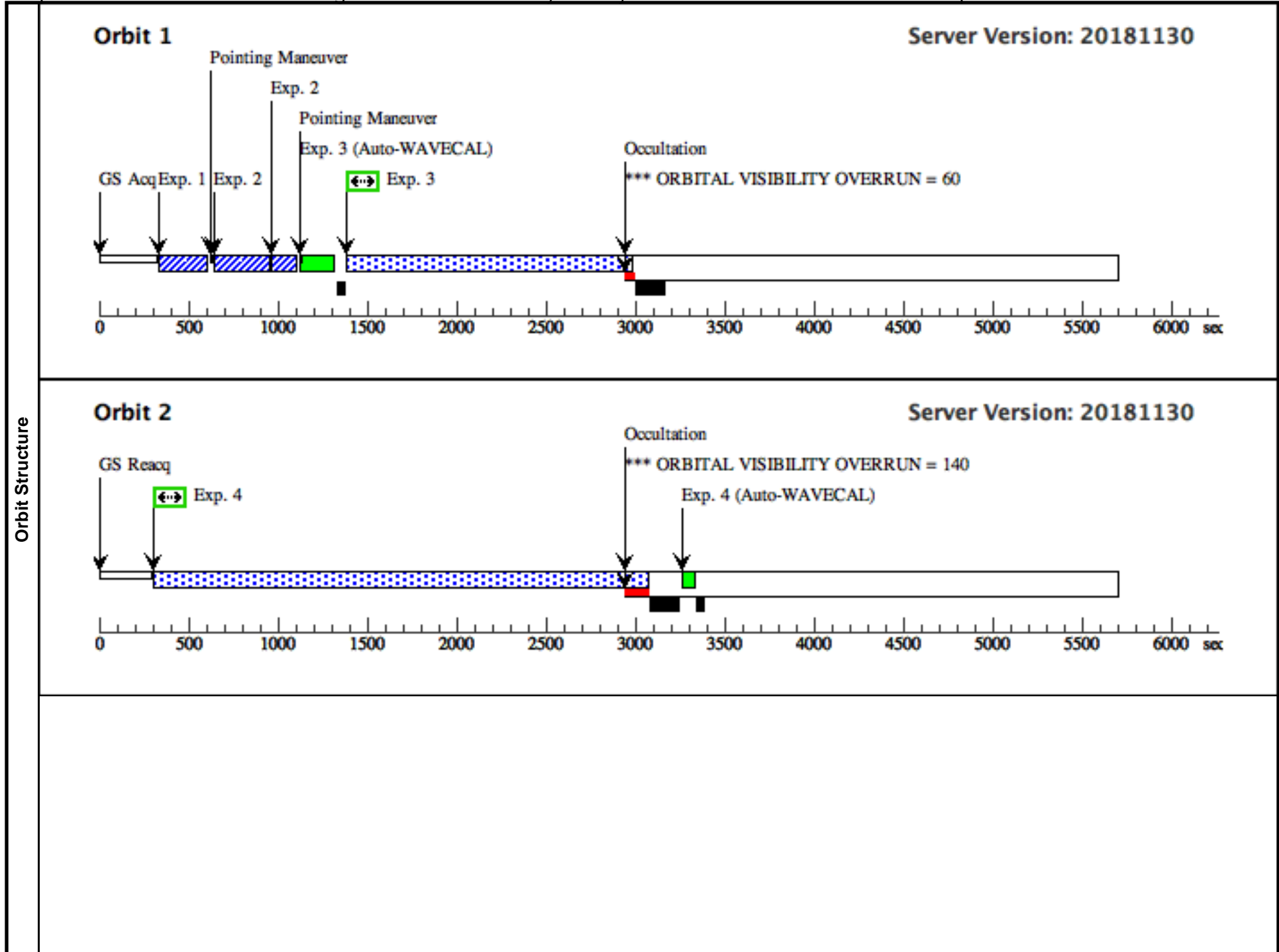




Proposal 15071 - Visit 04 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

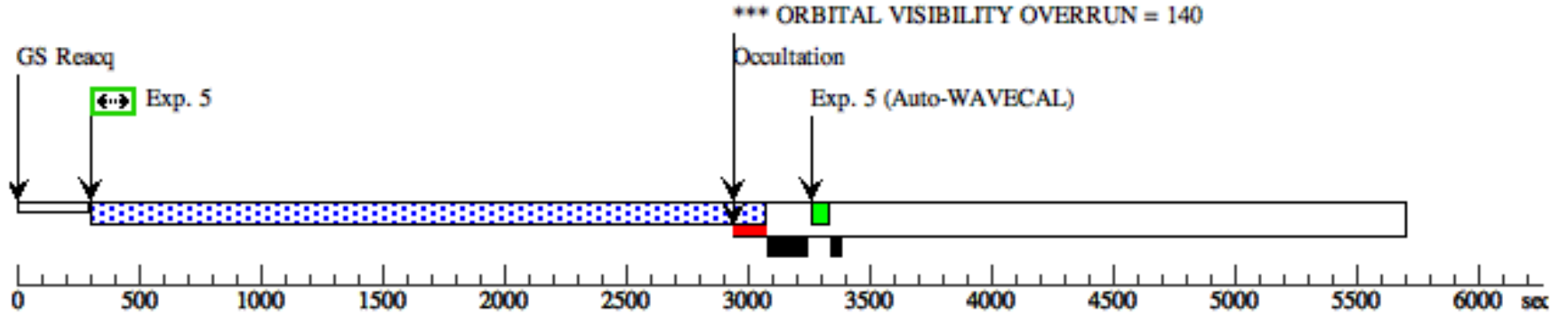
Mon May 06 20:01:43 GMT 2019

Visit	<p>Proposal 15071, Visit 04, failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: PCS MODE FINE; SCHED 100%; GROUP 04,05,06 WITHIN 3D</p> <p><i>Comments: For ETC calculations a T= 3850 K blackbody scaled to V or U magnitude (NUV and optical only) plus distance-scaled lines from MUSCLES target GJ436 are used.</i></p> <p>01/24/18: Changed visit from COS G160M/G230L to STIS G140L for BOP.</p>																																																																																								
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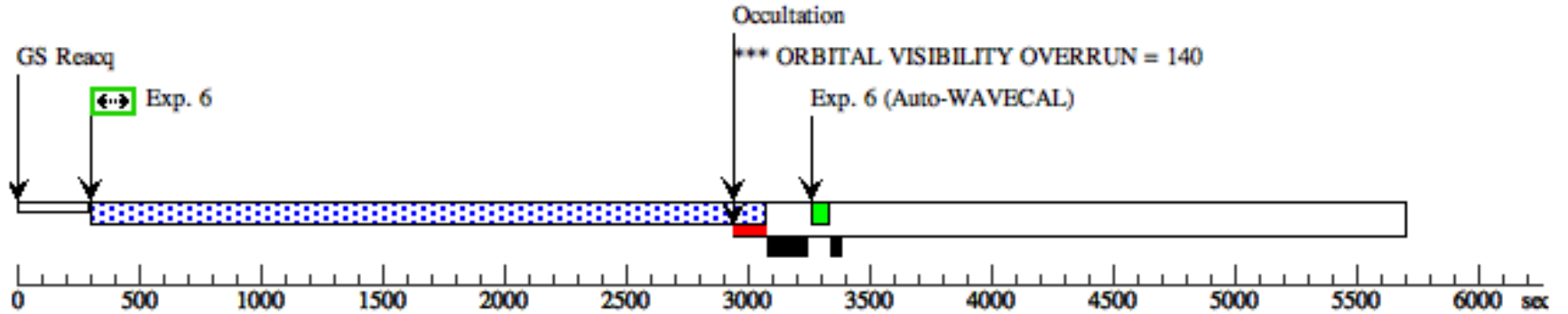
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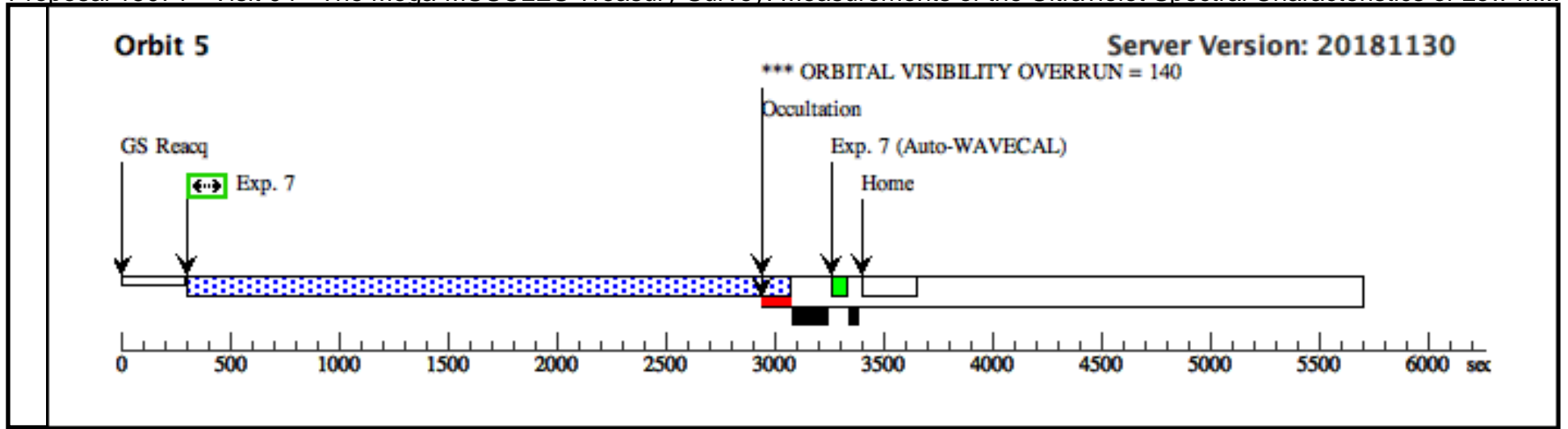
Server Version: 20181130



Orbit 4

Server Version: 20181130

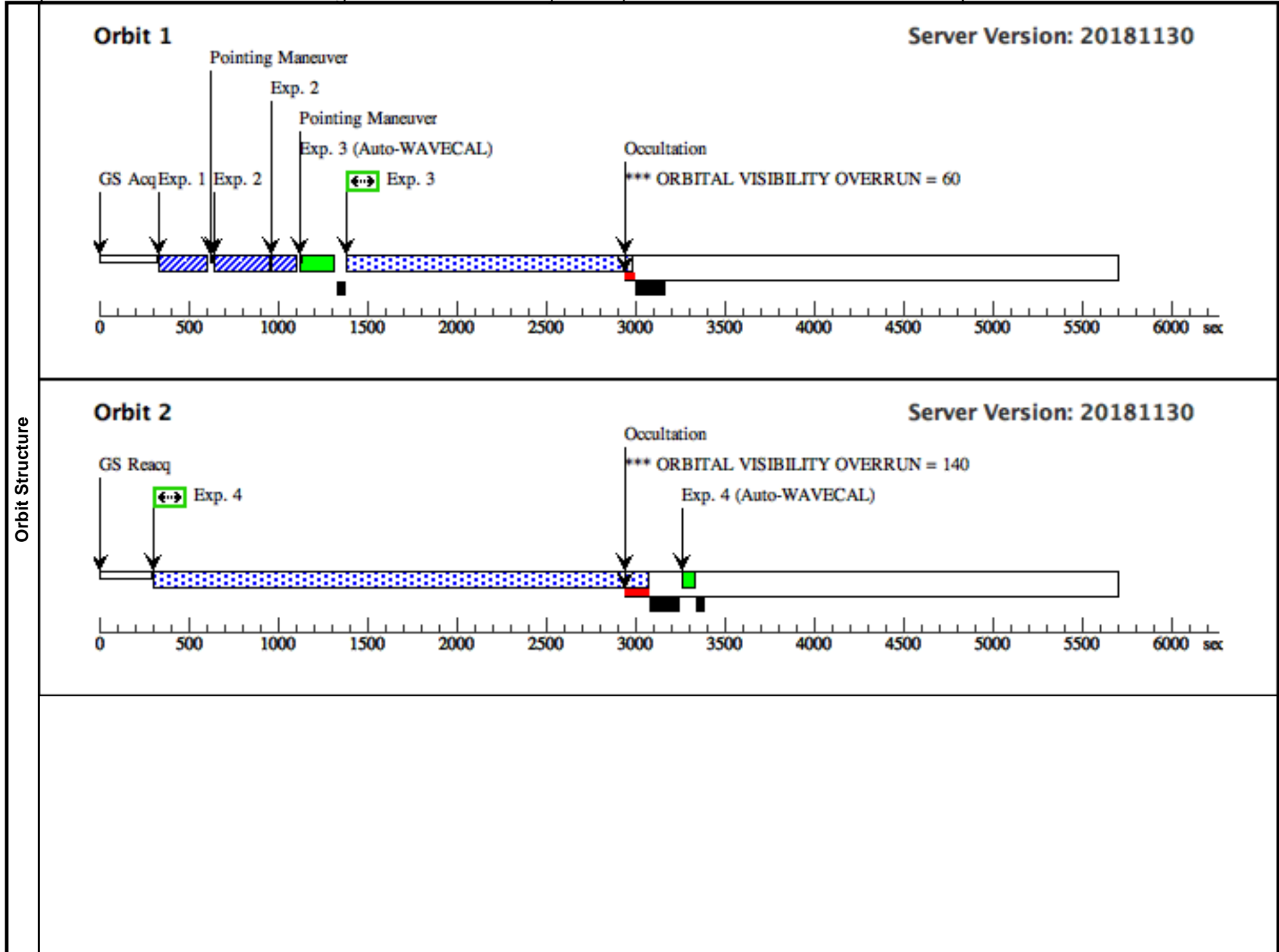




Proposal 15071 - Visit Z4 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

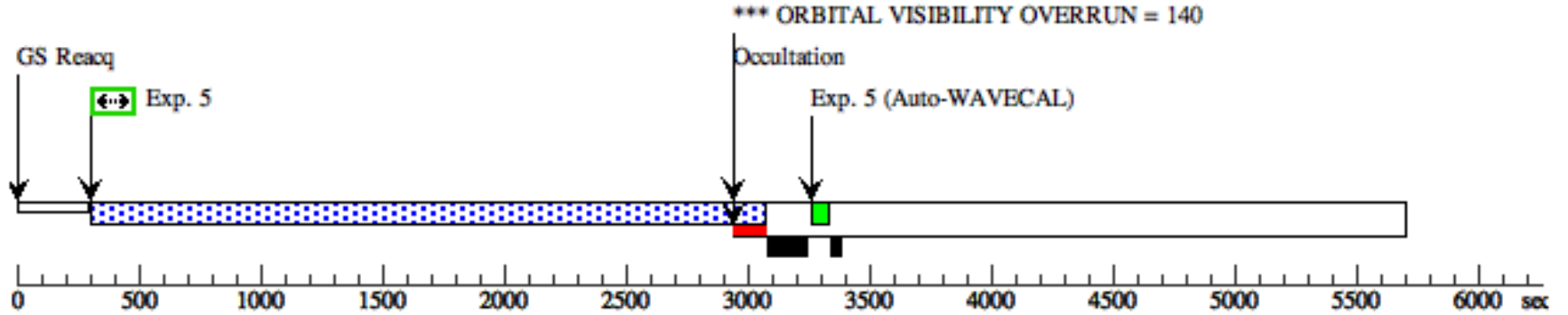
Mon May 06 20:01:43 GMT 2019

Visit	<p>Proposal 15071, Visit Z4, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: PCS MODE FINE; SCHED 100%; GROUP Z4,Z5 WITHIN 4D</p> <p><i>Comments: For ETC calculations a T= 3850 K blackbody scaled to V or U magnitude (NUV and optical only) plus distance-scaled lines from MUSCLES target GJ436 are used.</i></p> <p>01/24/18: Changed visit from COS G160M/G230L to STIS G140L for BOP.</p>																																																																																								
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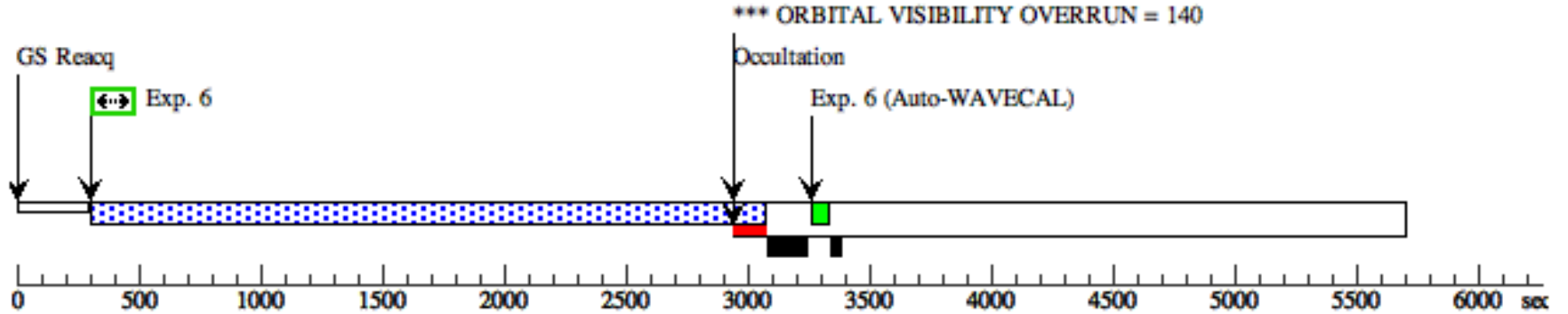
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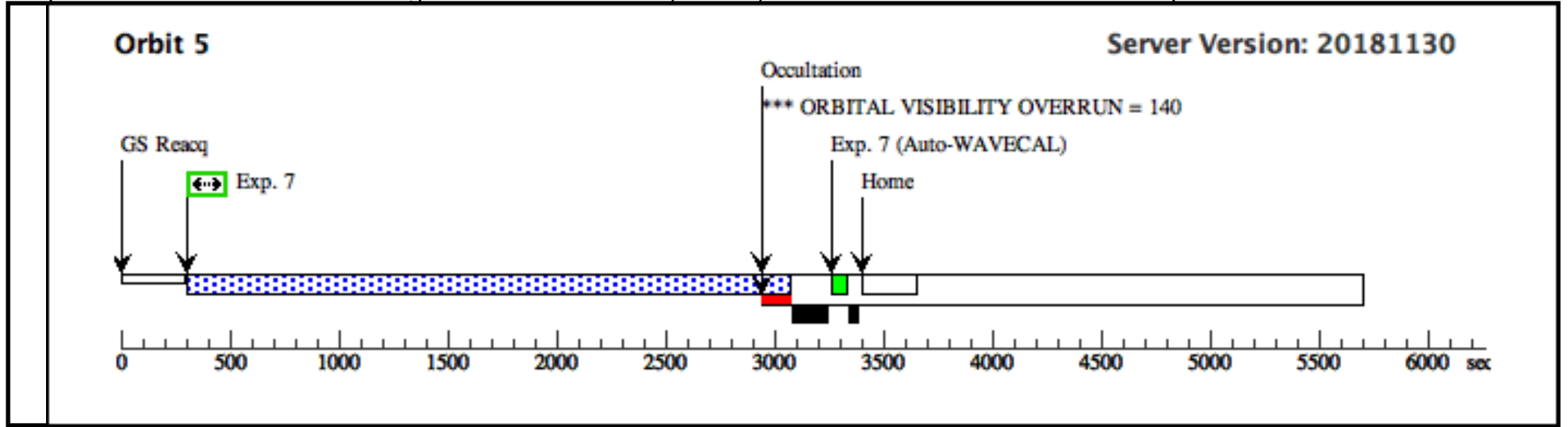
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Orbit 4

Server Version: 20181130

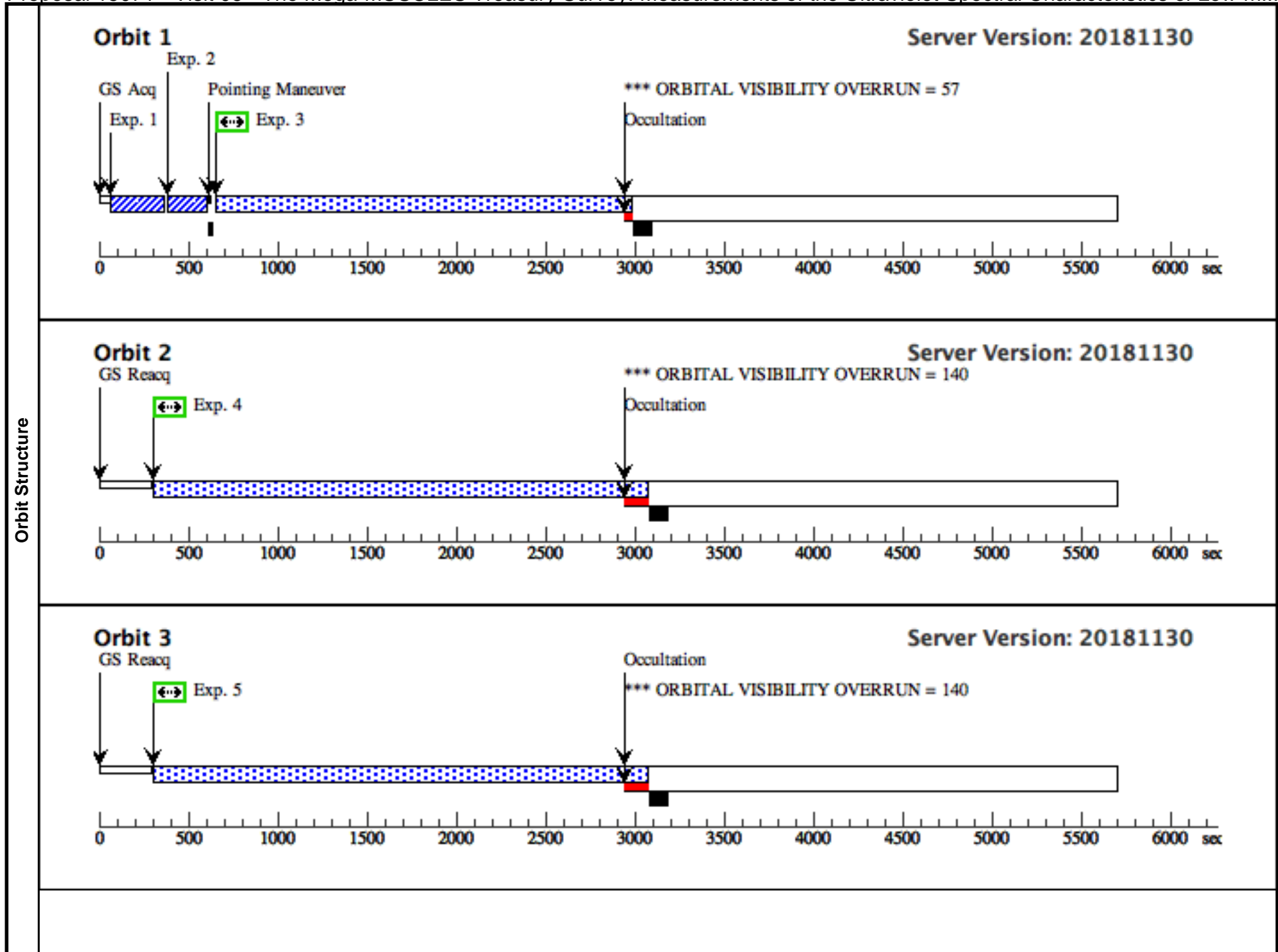


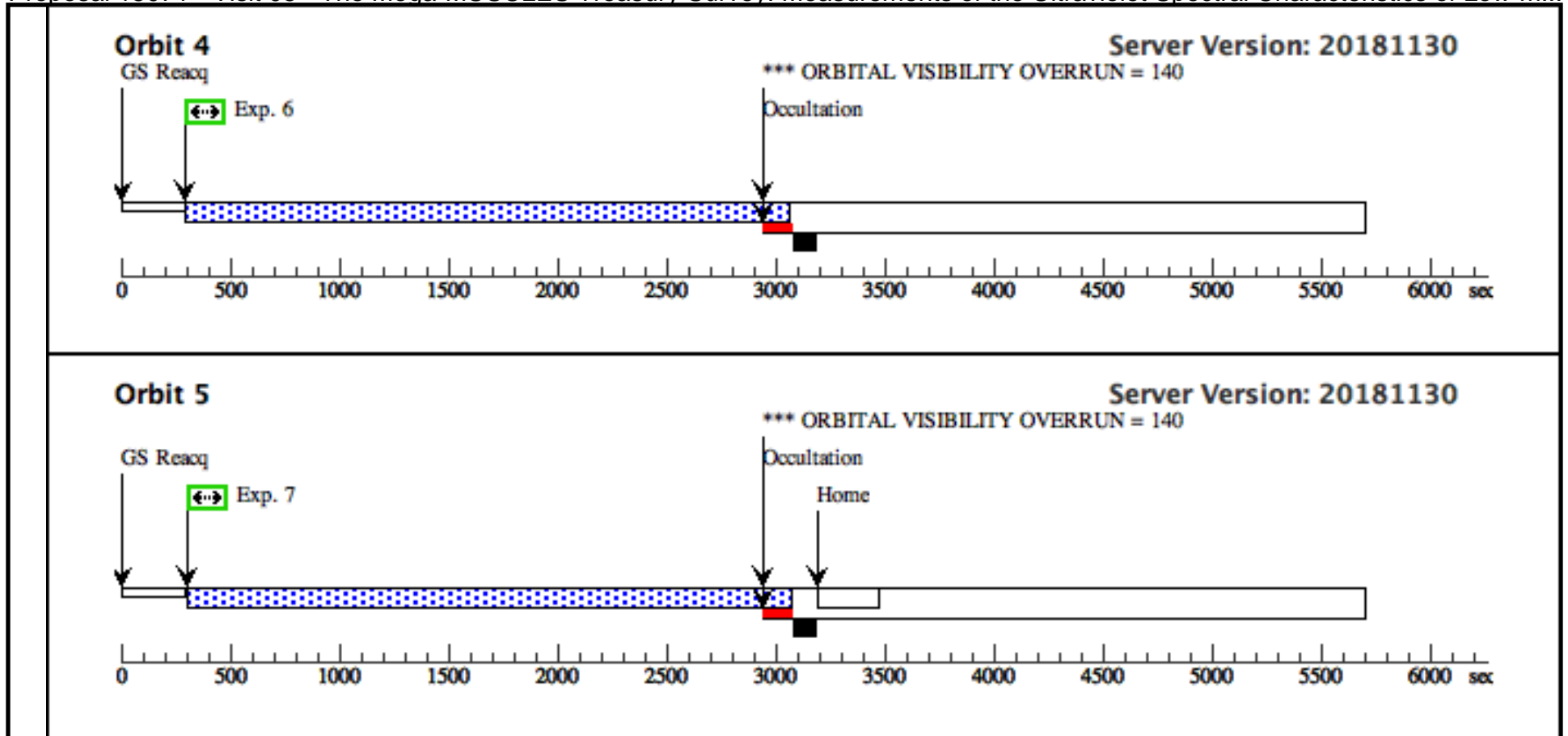


Proposal 15071 - Visit 05 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:43 GMT 2019

Visit	<p>Proposal 15071, Visit 05, failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%</p> <p><i>Comments: For ETC calculations a T= 3850 K blackbody scaled to V or U magnitude (NUV and optical only) plus distance-scaled lines from MUSCLES target GJ436 are used.</i></p> <p>01/24/18: Changed G130M/1291 exposures to 1222 for BOP.</p>																																																																																																													
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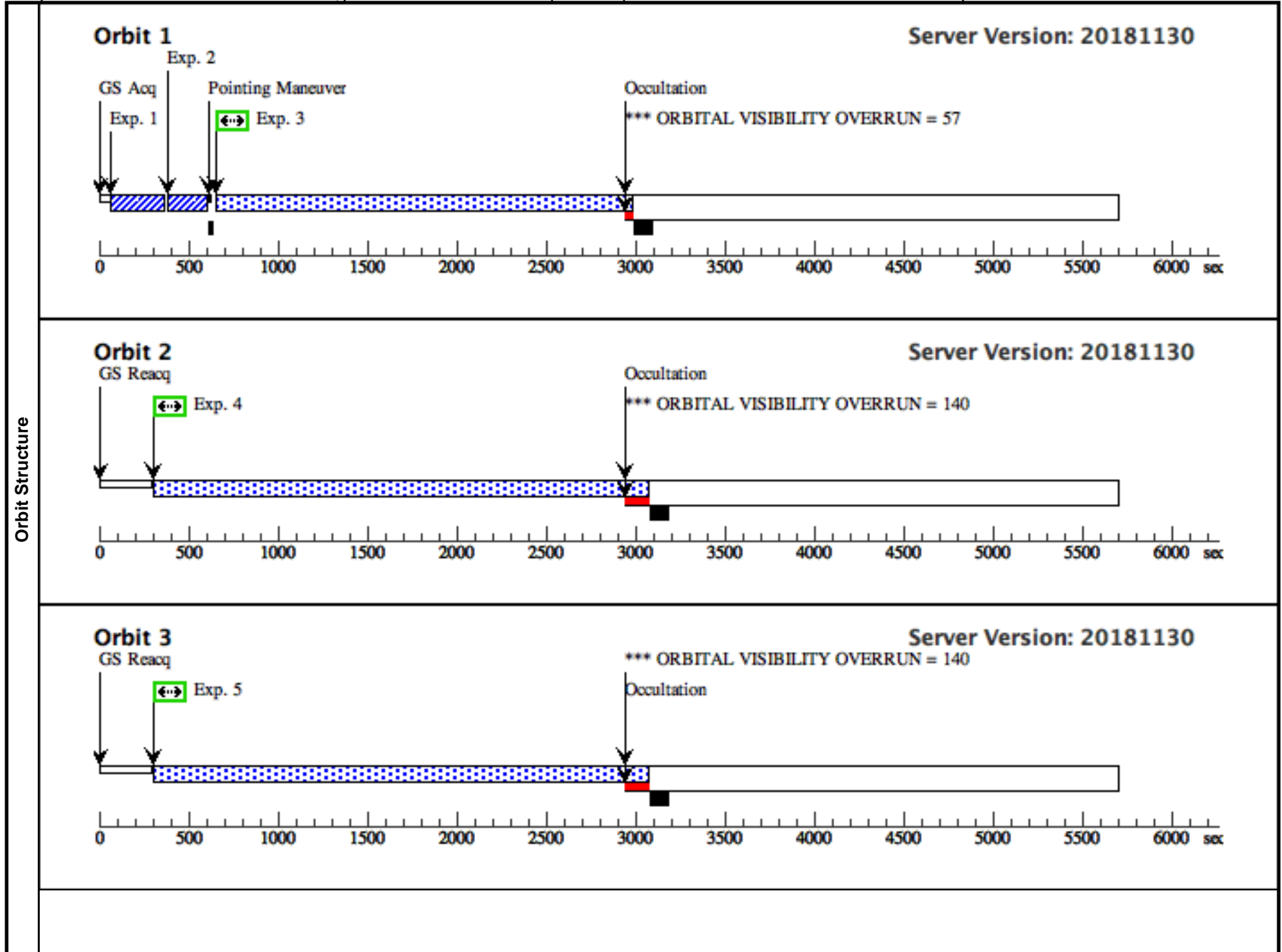


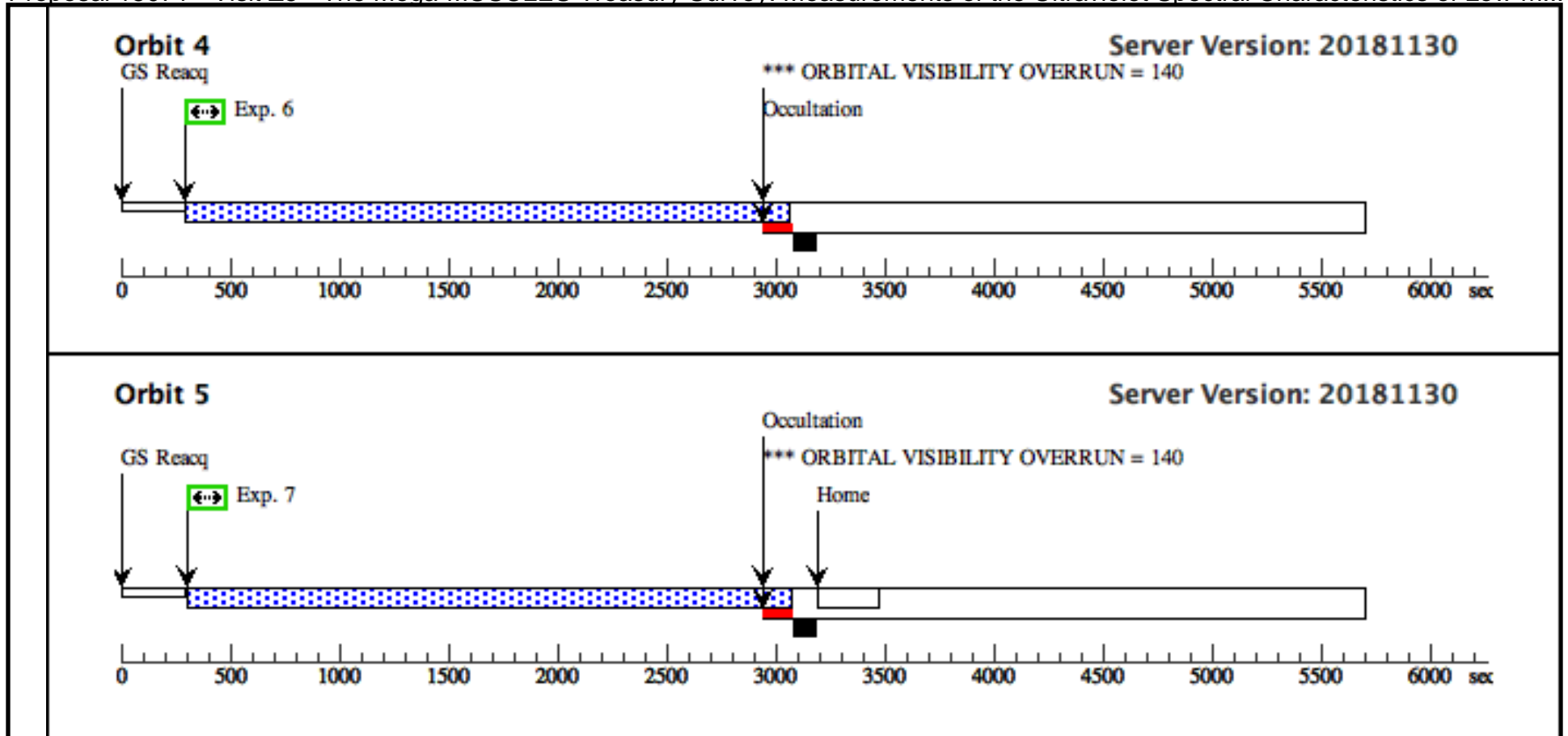


Proposal 15071 - Visit Z5 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:44 GMT 2019

Visit	<p>Proposal 15071, Visit Z5, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%</p> <p><i>Comments: For ETC calculations a T= 3850 K blackbody scaled to V or U magnitude (NUV and optical only) plus distance-scaled lines from MUSCLES target GJ436 are used.</i></p> <p>01/24/18: Changed G130M/1291 exposures to 1222 for BOP.</p>									
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<p><i>Comments: This object was generated by the target selector and retrieved from the SIMBAD database. Hipparcos coordinates, Tycho PMs. Coordinate uncertainties from PM uncertainty.</i></p> <p>Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, M V-IV] Extended=NO</p>										
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	4	(COS.sp.104 6467)	(2) GJ676A	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=27 16.0; FP-POS=3			2716 Secs (2716 Secs) [==>]	[2]
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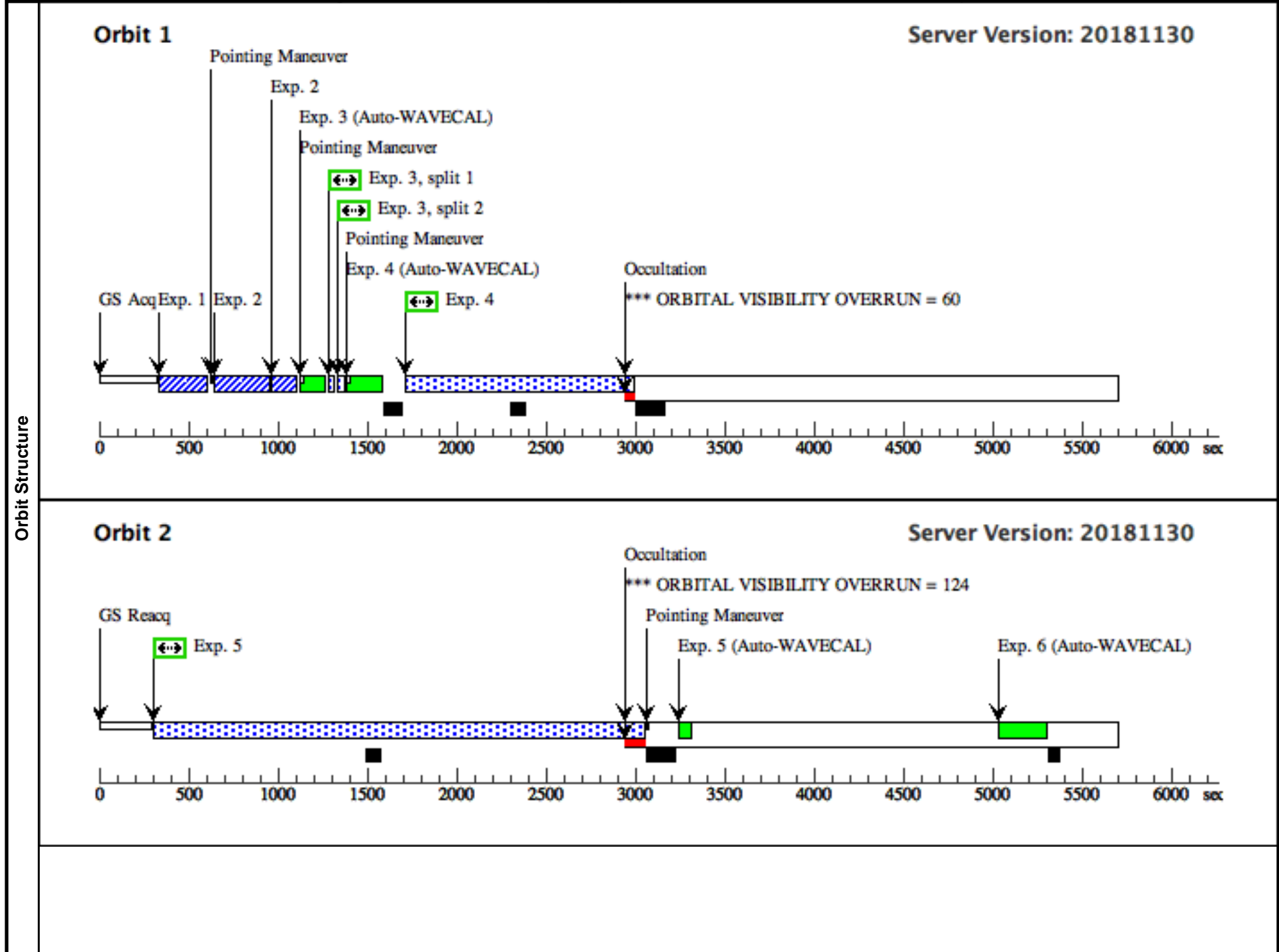


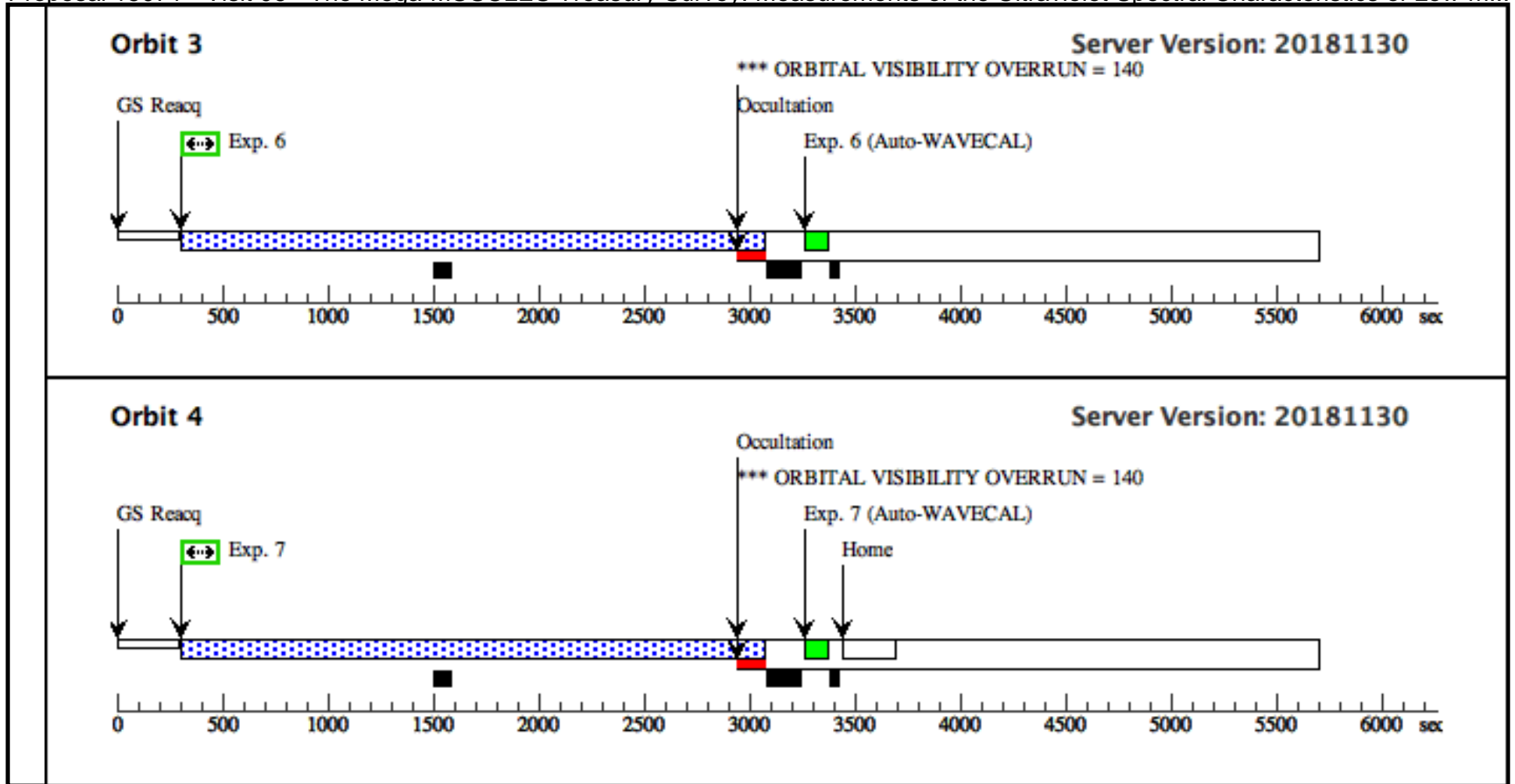


Proposal 15071 - Visit 06 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:44 GMT 2019

Visit	Proposal 15071, Visit 06, completed Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100% <i>Comments: For ETC calculations a T= 3850 K blackbody scaled to V or U magnitude (NUV and optical only) plus distance-scaled lines from MUSCLES target GJ436 are used.</i>																																																																																								
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#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																																																
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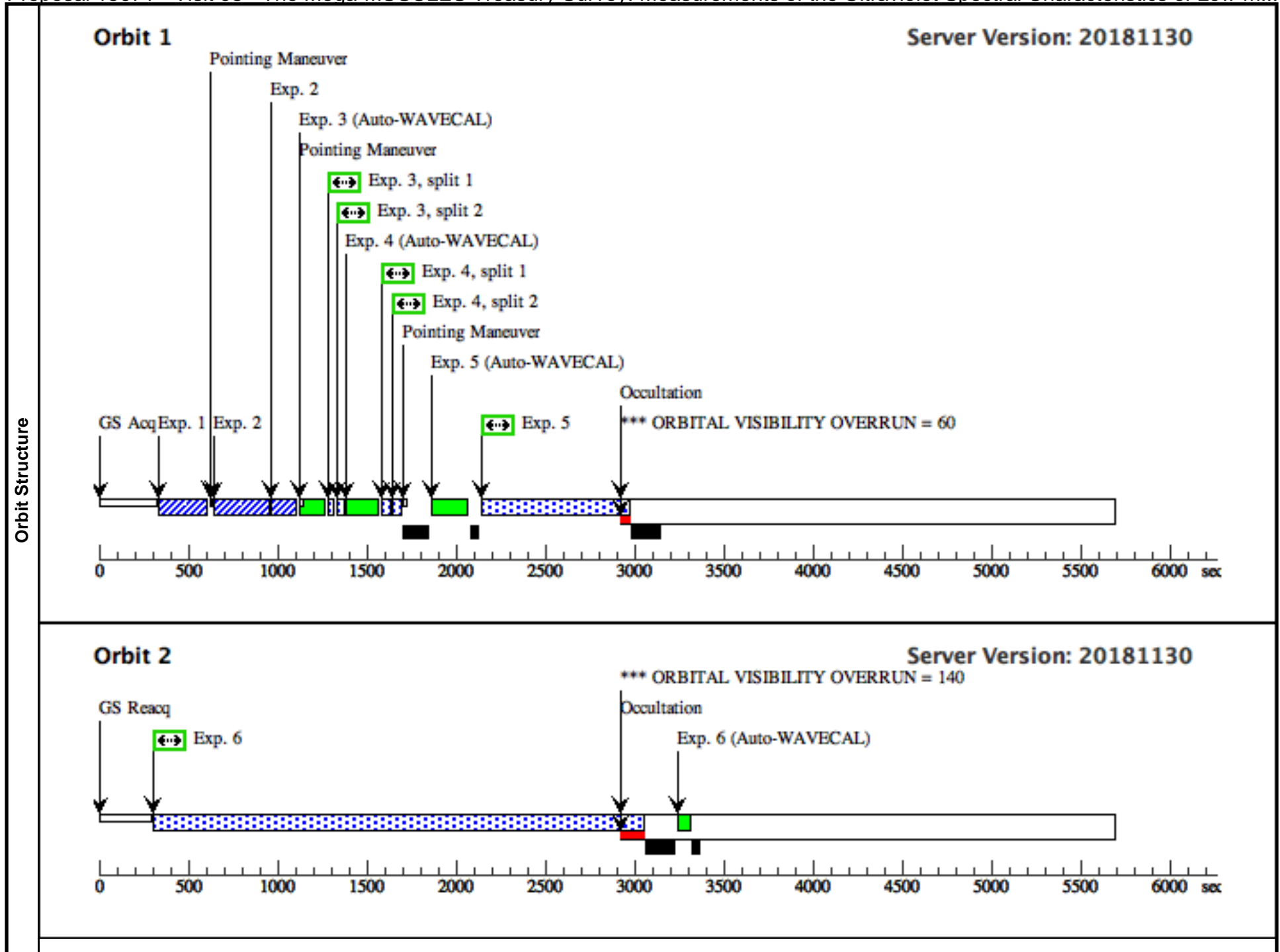


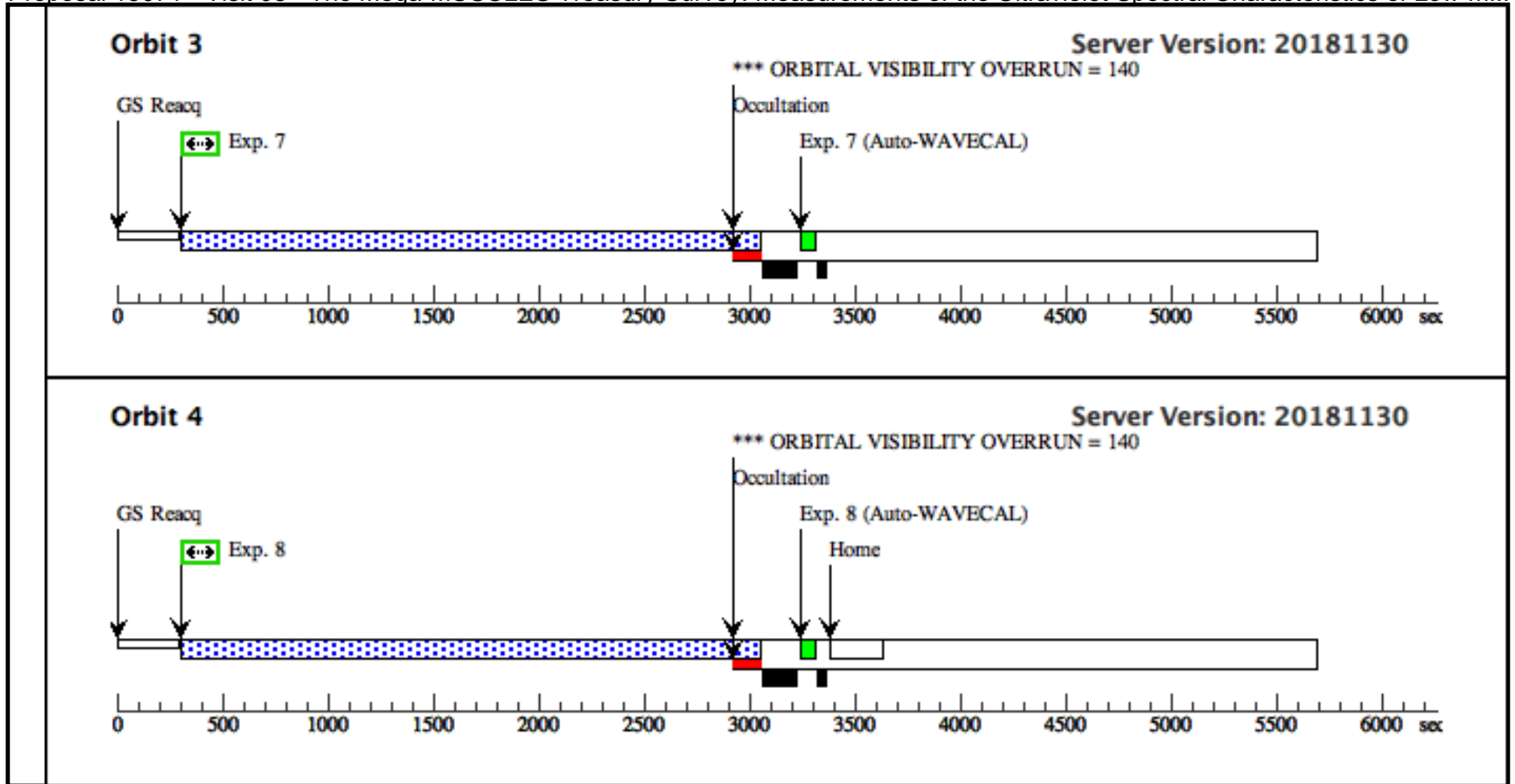


Proposal 15071 - Visit 08 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:44 GMT 2019

Visit	Proposal 15071, Visit 08, completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100%									
	(Visit 08) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 08) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 08) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 08) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(3)	GJ15A	RA: 00 18 22.8853 (4.5953554d) Dec: +44 01 22.63 (44.02295d) Equinox: J2000	Proper Motion RA: 2888.5 mas/yr Proper Motion Dec: 408.9 mas/yr Parallax: 0.2807" Epoch of Position: 2000	V=8.13	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. GAIA DR1 coordinates. Tycho proper motions. Coordinate uncertainties based on difference between adopted coordinates and MEarth coordinates (see Newton et al. 2017, ApJ, 834, 85).</i> Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, 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	(STIS.ta.101 2307)	(3) GJ15A	STIS/CCD, ACQ, F28X500III	MIRROR		GS ACQ SCENARI O BASE1B3		1 Secs (1 Secs) [==>]	[1]
	2	(STIS.ta.101 2308)	(3) GJ15A	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1 Secs (1 Secs) [==>]	[1]
	3	(STIS.sp.10 12305)	(3) GJ15A	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A				3 Secs (3 Secs) [==>(Split 1)] [==>(Split 2)]	[1]
	4	(STIS.sp.10 46486)	(3) GJ15A	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A				30 Secs (30 Secs) [==>(Split 1)] [==>(Split 2)]	[1]
	5	(STIS.sp.10 12304)	(3) GJ15A	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=81 9.0			819.0 Secs (819 Secs) [==>]	[1]
	6	(STIS.sp.10 12304)	(3) GJ15A	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=27 37.0			2737. Secs (2737 Secs) [==>]	[2]
	7	(STIS.sp.10 12304)	(3) GJ15A	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=27 37.0			2737. Secs (2737 Secs) [==>]	[3]
	8	(STIS.sp.10 12304)	(3) GJ15A	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=27 37.0			2737. Secs (2737 Secs) [==>]	[4]

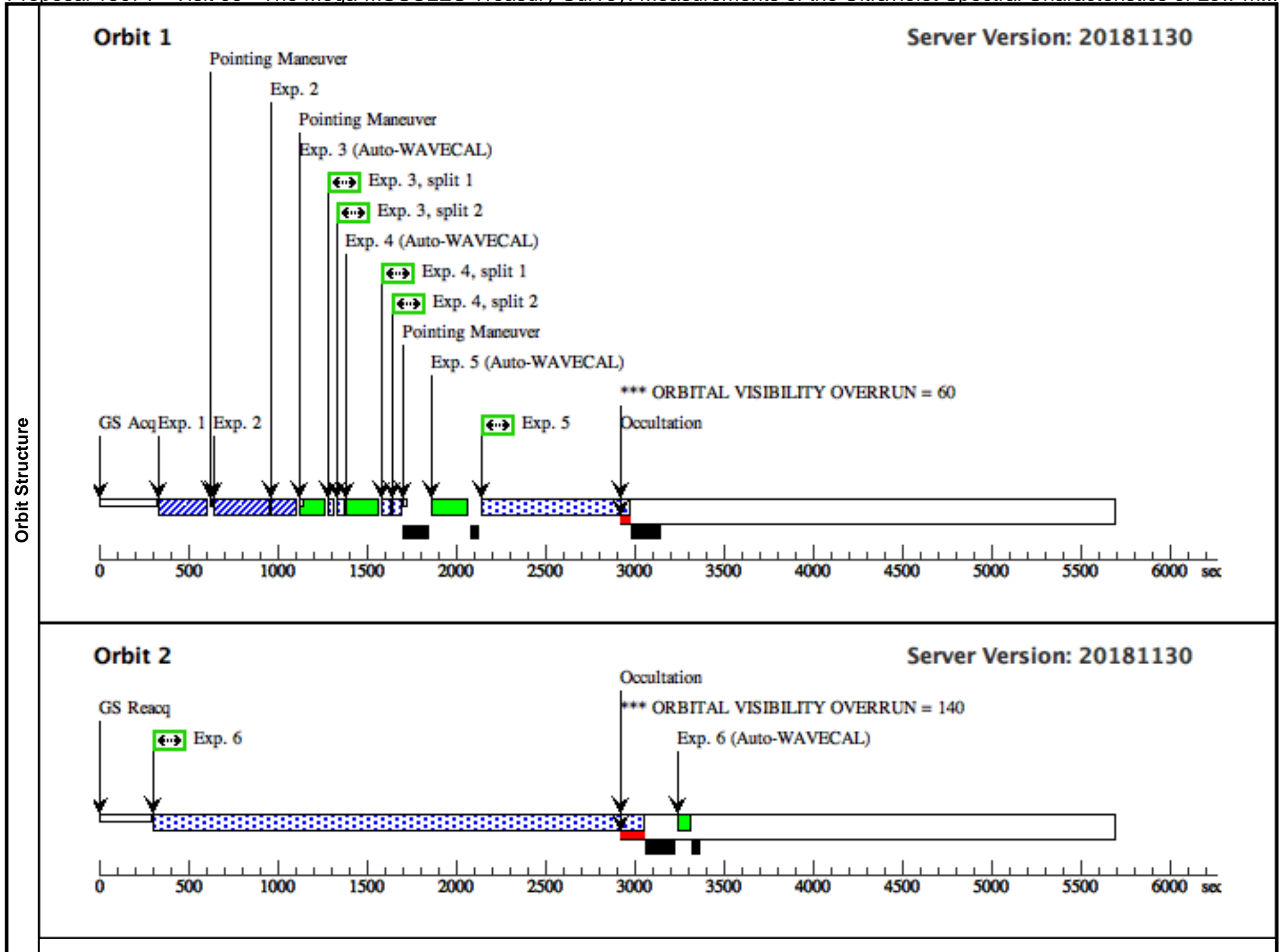


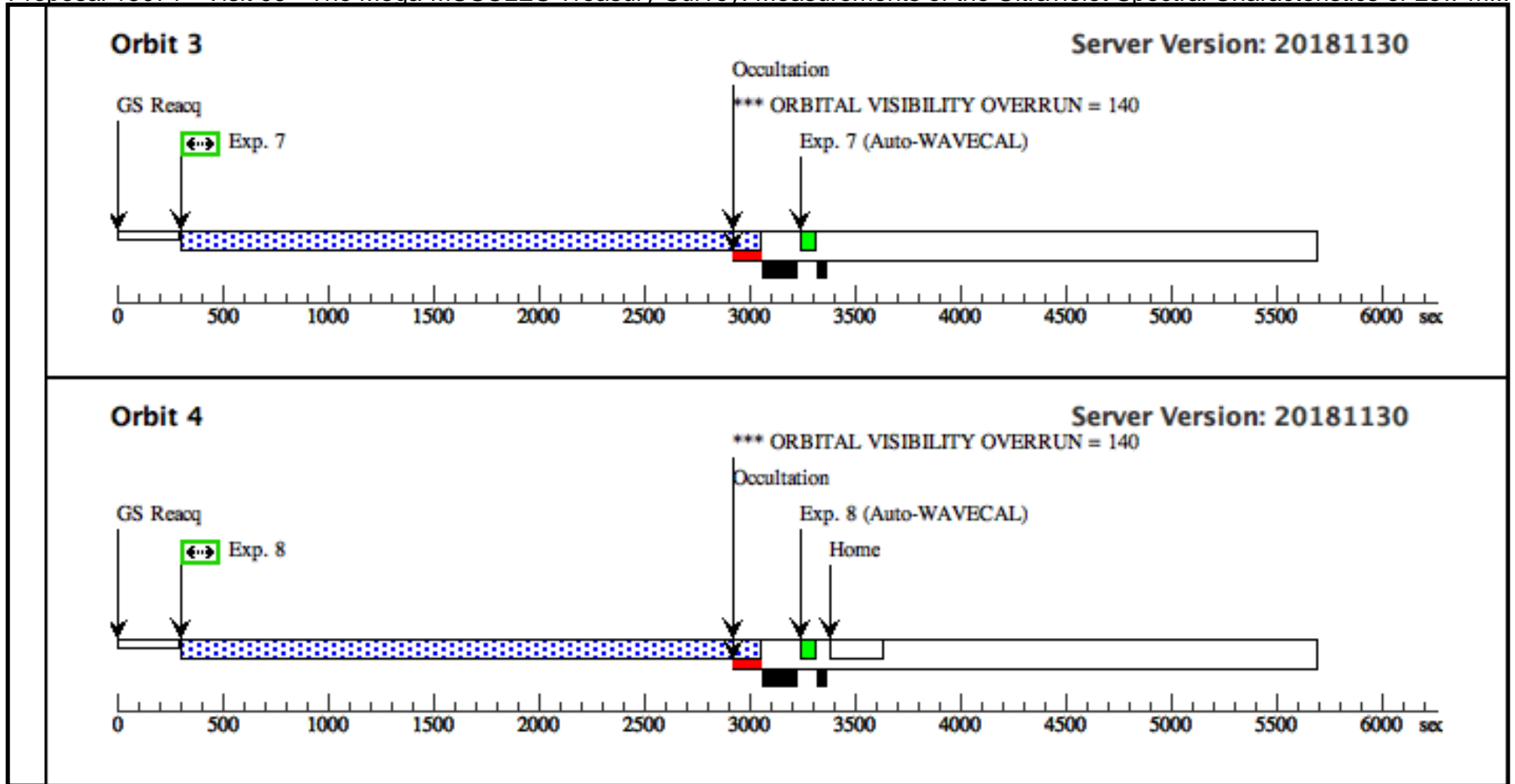


Proposal 15071 - Visit 09 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:44 GMT 2019

Visit	Proposal 15071, Visit 09, completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100%; AFTER 08 BY 0 D TO 4 D										
	(Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(3)	GJ15A	RA: 00 18 22.8853 (4.5953554d) Dec: +44 01 22.63 (44.02295d) Equinox: J2000		Proper Motion RA: 2888.5 mas/yr Proper Motion Dec: 408.9 mas/yr Parallax: 0.2807" Epoch of Position: 2000		V=8.13	Reference Frame: ICRS			
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. GAIA DR1 coordinates. Tycho proper motions. Coordinate uncertainties based on difference between adopted coordinates and MEarth coordinates (see Newton et al. 2017, ApJ, 834, 85).</i> Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, 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	(STIS.ta.101 2307)	(3) GJ15A	STIS/CCD, ACQ, F28X500III	MIRROR		GS ACQ SCENARI O BASE1B3		1 Secs (1 Secs)		
									[==>]		[1]
	2	(STIS.ta.101 2308)	(3) GJ15A	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1 Secs (1 Secs)		
									[==>]		[1]
	3	(STIS.sp.10 12305)	(3) GJ15A	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A				3 Secs (3 Secs)		
									[==>(Split 1)]		[1]
									[==>(Split 2)]		
	4	(STIS.sp.10 46486)	(3) GJ15A	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A				30 Secs (30 Secs)		
								[==>(Split 1)]		[1]	
								[==>(Split 2)]			
5	(STIS.sp.10 12304)	(3) GJ15A	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A		BUFFER-TIME=81 9.0		819.0 Secs (819 Secs)			
								[==>]		[1]	
6	(STIS.sp.10 12304)	(3) GJ15A	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A		BUFFER-TIME=27 37.0		2737. Secs (2737 Secs)			
								[==>]		[2]	
7	(STIS.sp.10 12304)	(3) GJ15A	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A		BUFFER-TIME=27 37.0		2737. Secs (2737 Secs)			
								[==>]		[3]	
8	(STIS.sp.10 12304)	(3) GJ15A	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A		BUFFER-TIME=27 37.0		2737. Secs (2737 Secs)			
								[==>]		[4]	

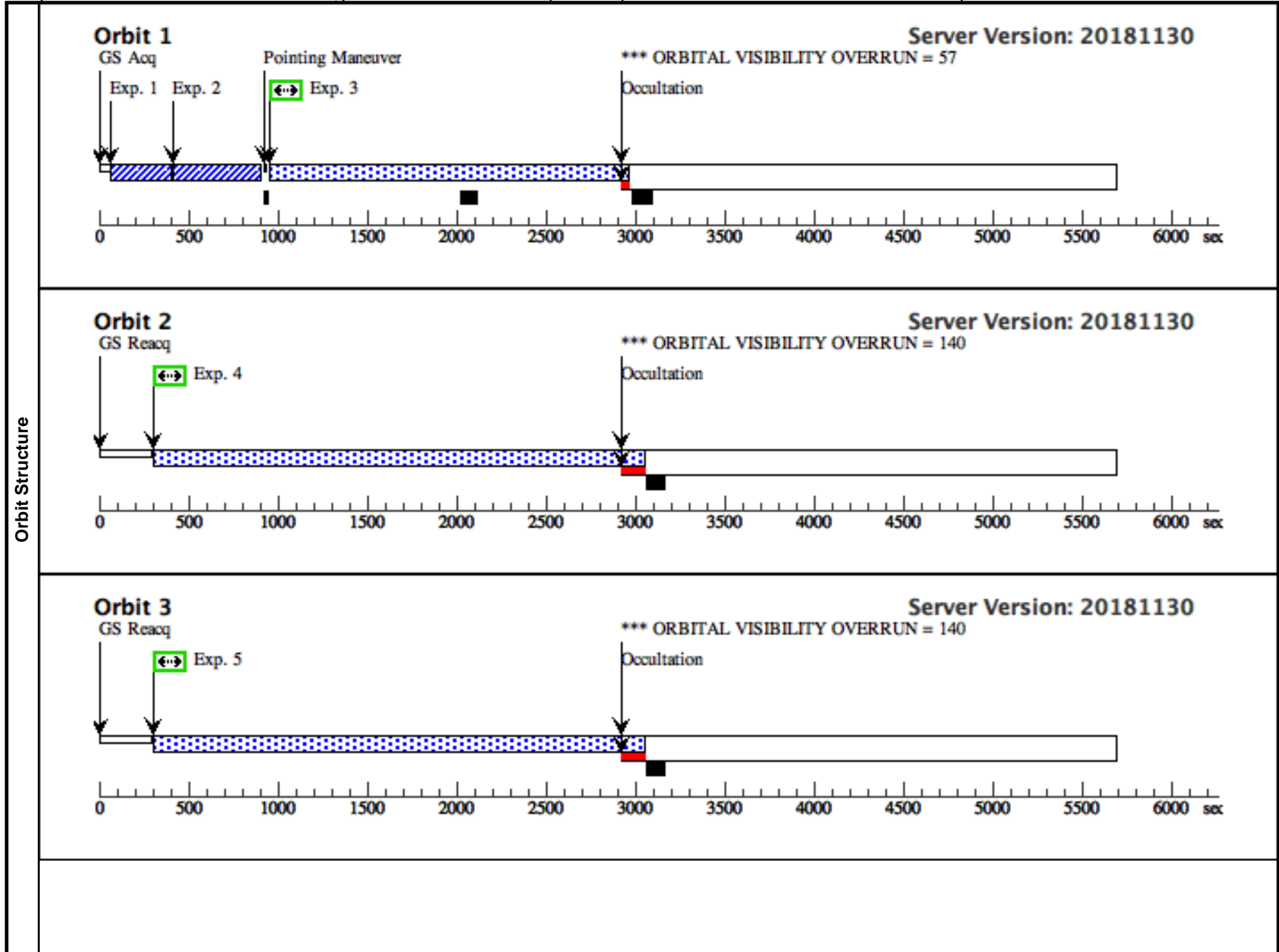


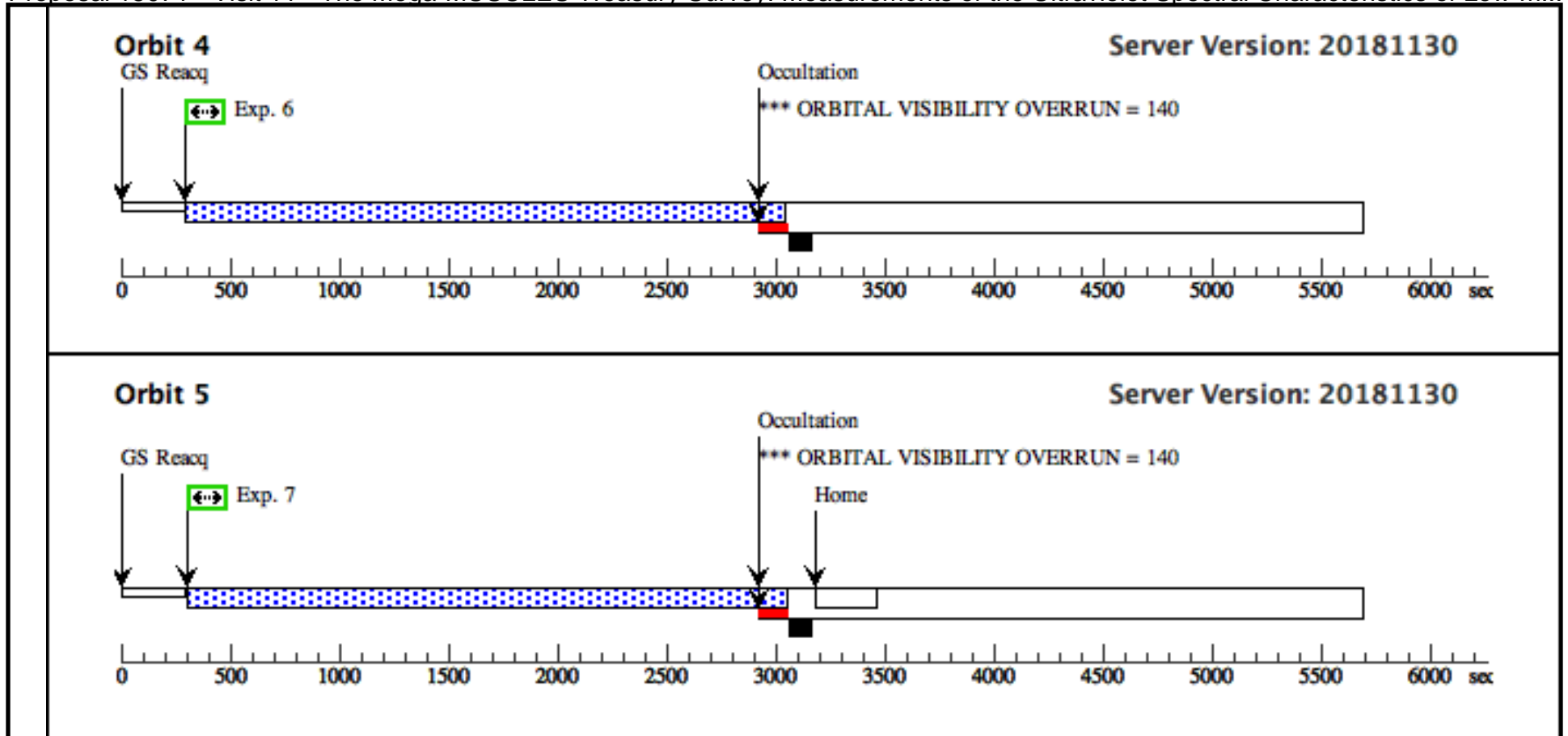


Proposal 15071 - Visit 11 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:44 GMT 2019

Visit	<p>Proposal 15071, Visit 11, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%</p> <p><i>Comments: 01/23/18: G130M grating setting exposures moved from 1291 to 1222 for BOP protection.</i></p>																																																																																									
	<p>(Visit 11) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(Visit 11) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 11) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 11) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 11) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 11) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>																																																																																									
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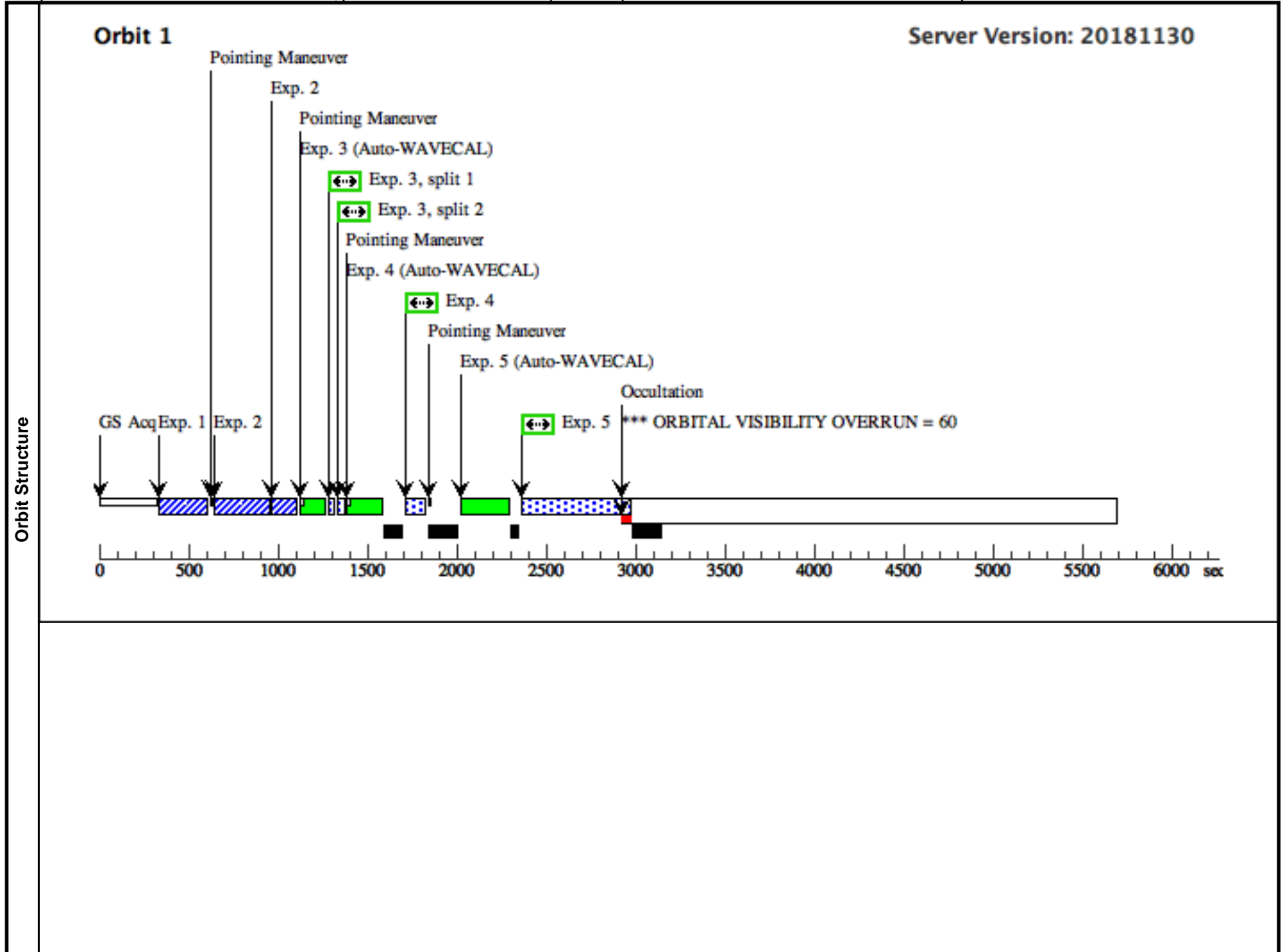




Proposal 15071 - Visit 12 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

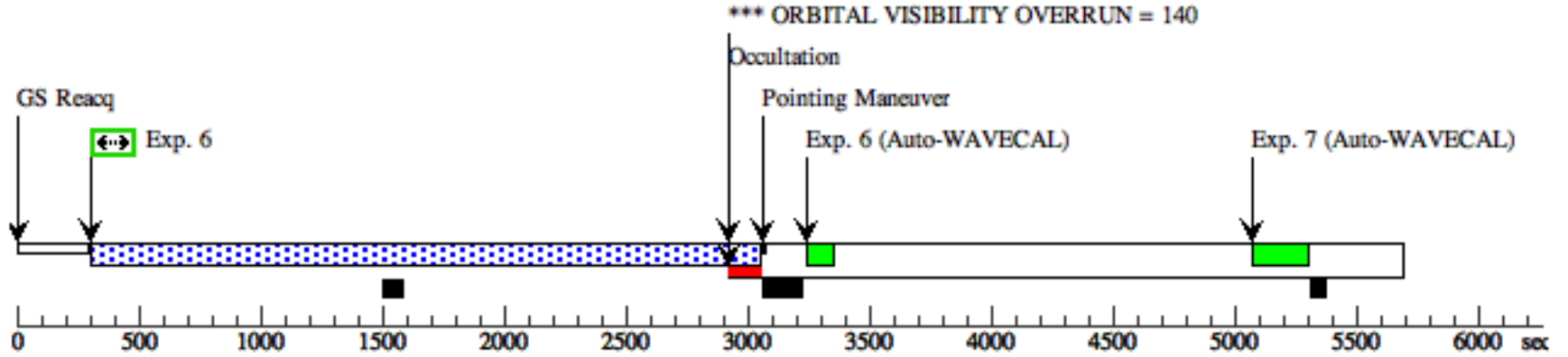
Mon May 06 20:01:44 GMT 2019

Visit	Proposal 15071, Visit 12, completed Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100%; AFTER 11 BY 0 D TO 1 D <i>Comments: STIS G140L exposures added to replace COS units removed for BOP.</i>																																																																																																																																										
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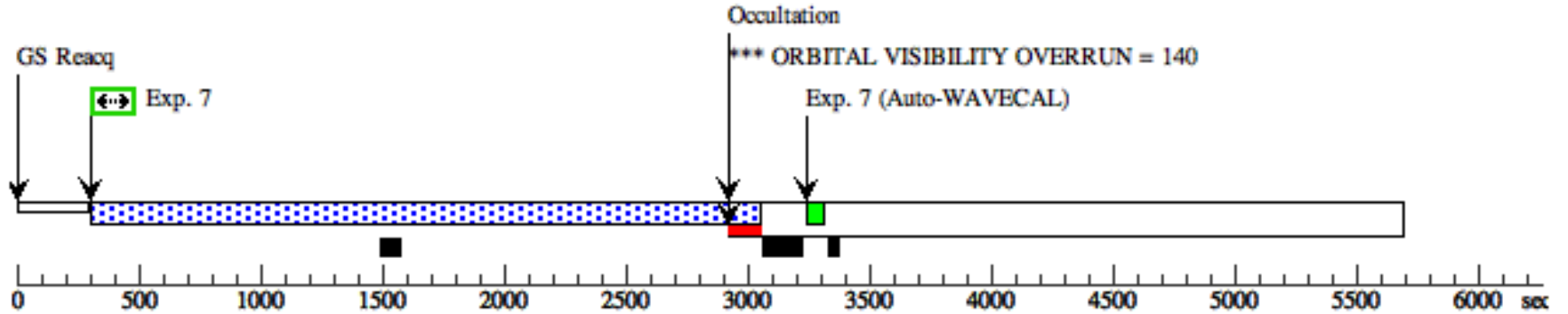
Orbit 2

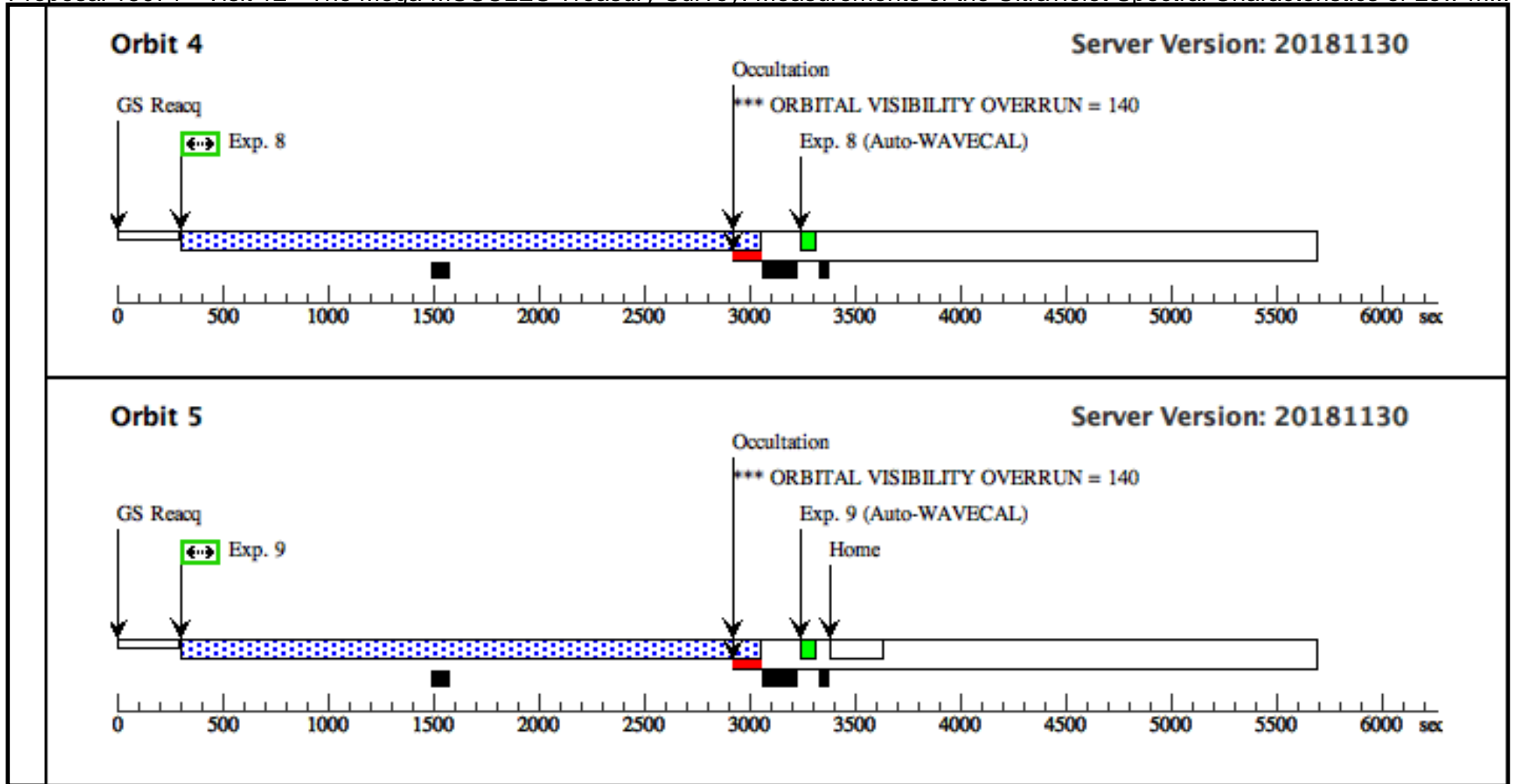
Server Version: 20181130



Orbit 3

Server Version: 20181130

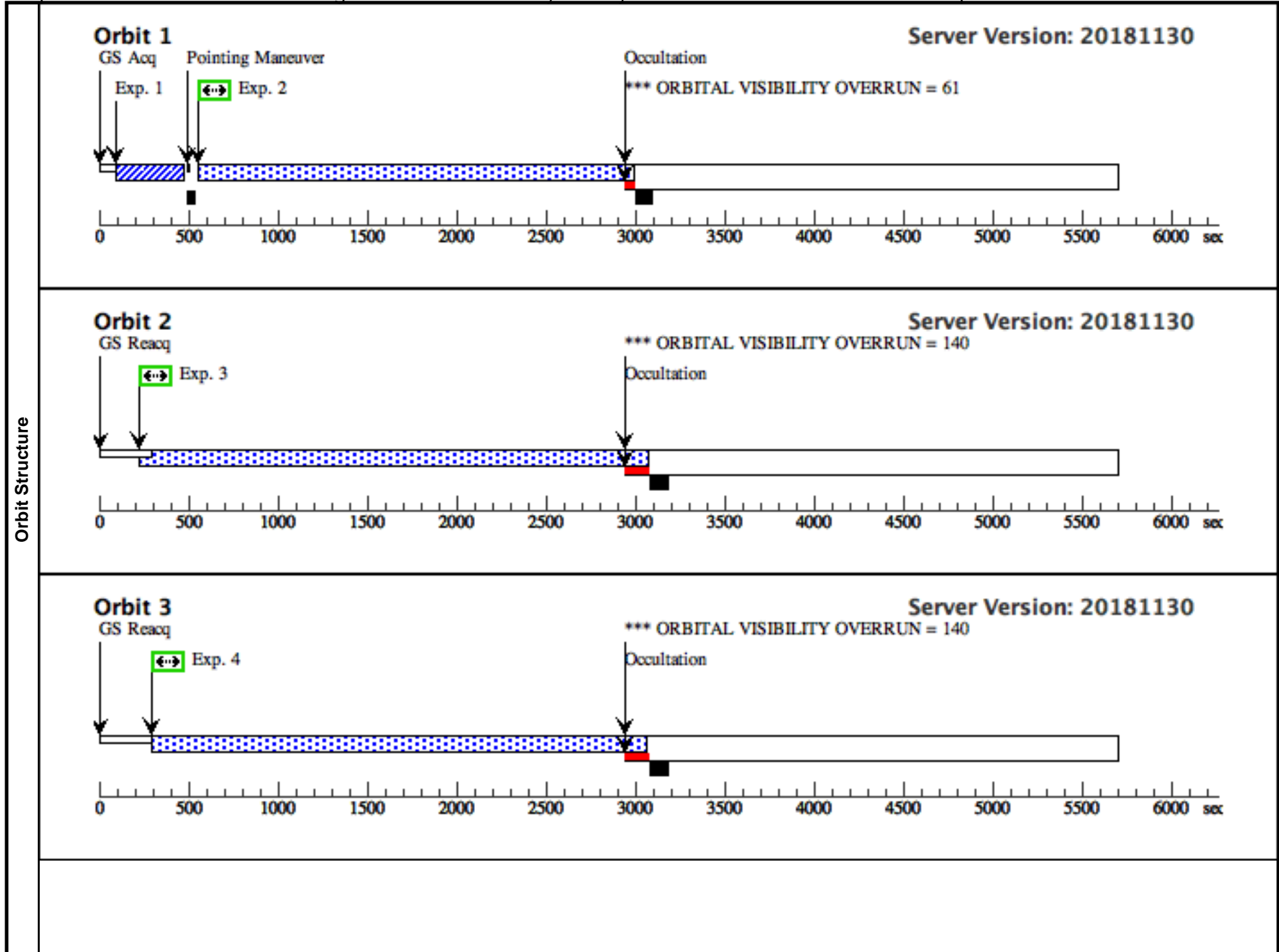


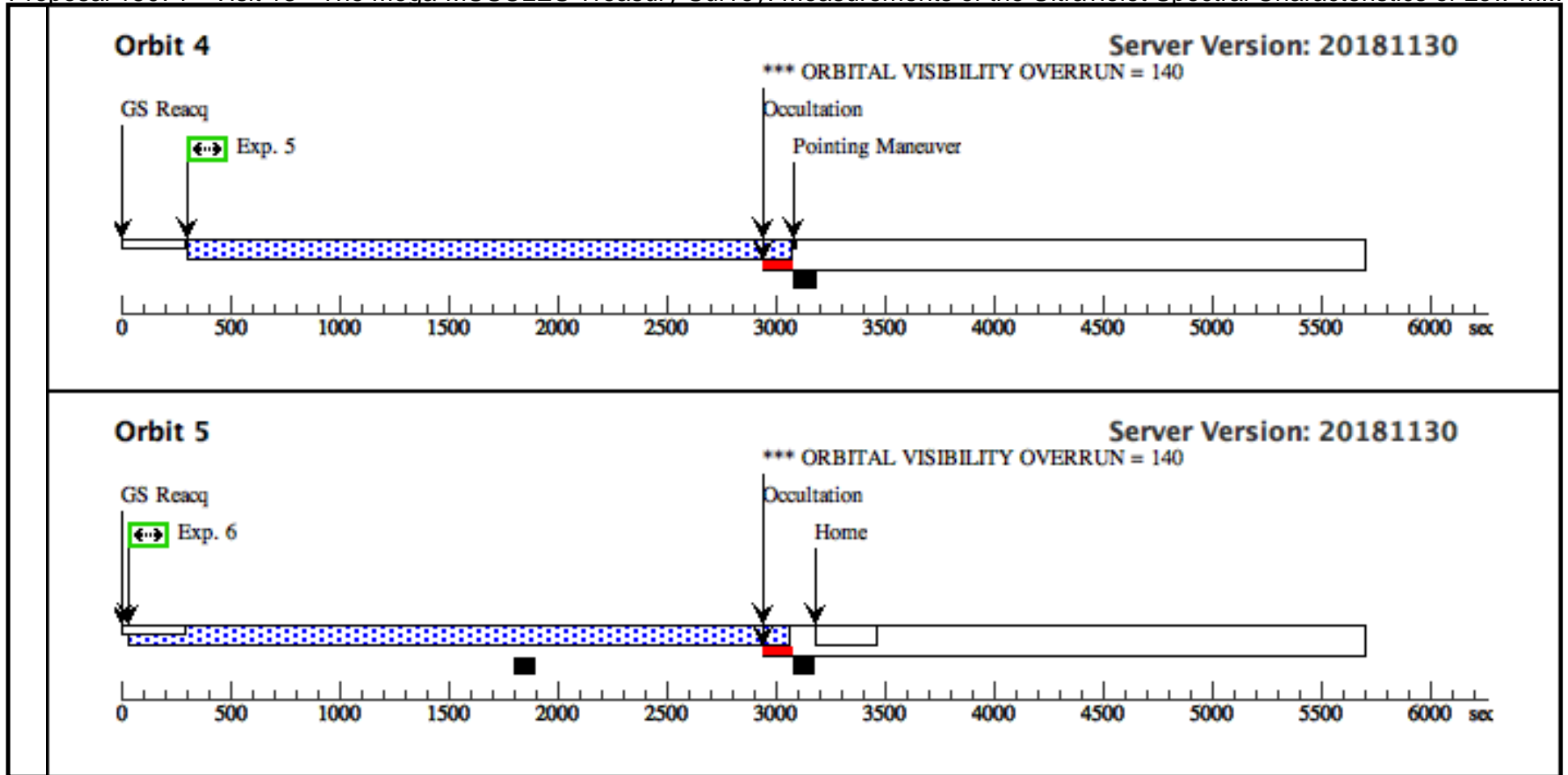


Proposal 15071 - Visit 13 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:44 GMT 2019

Visit	<p>Proposal 15071, Visit 13, scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: PCS MODE FINE; SCHED 100%; GROUP 13,14 WITHIN 36H</p> <p><i>Comments: Input for ETC is 3300 K blackbody (NUV and optical only) plus distance-scaled line fluxes from MUSCLES GJ436 observations.</i></p> <p><i>01/25/2018: Changed target acq. exposure time to adjust for new SNR requirements.</i></p>																																																																																								
	<p>(Visit 13) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(Visit 13) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 13) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 13) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 13) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 13) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>																																																																																								
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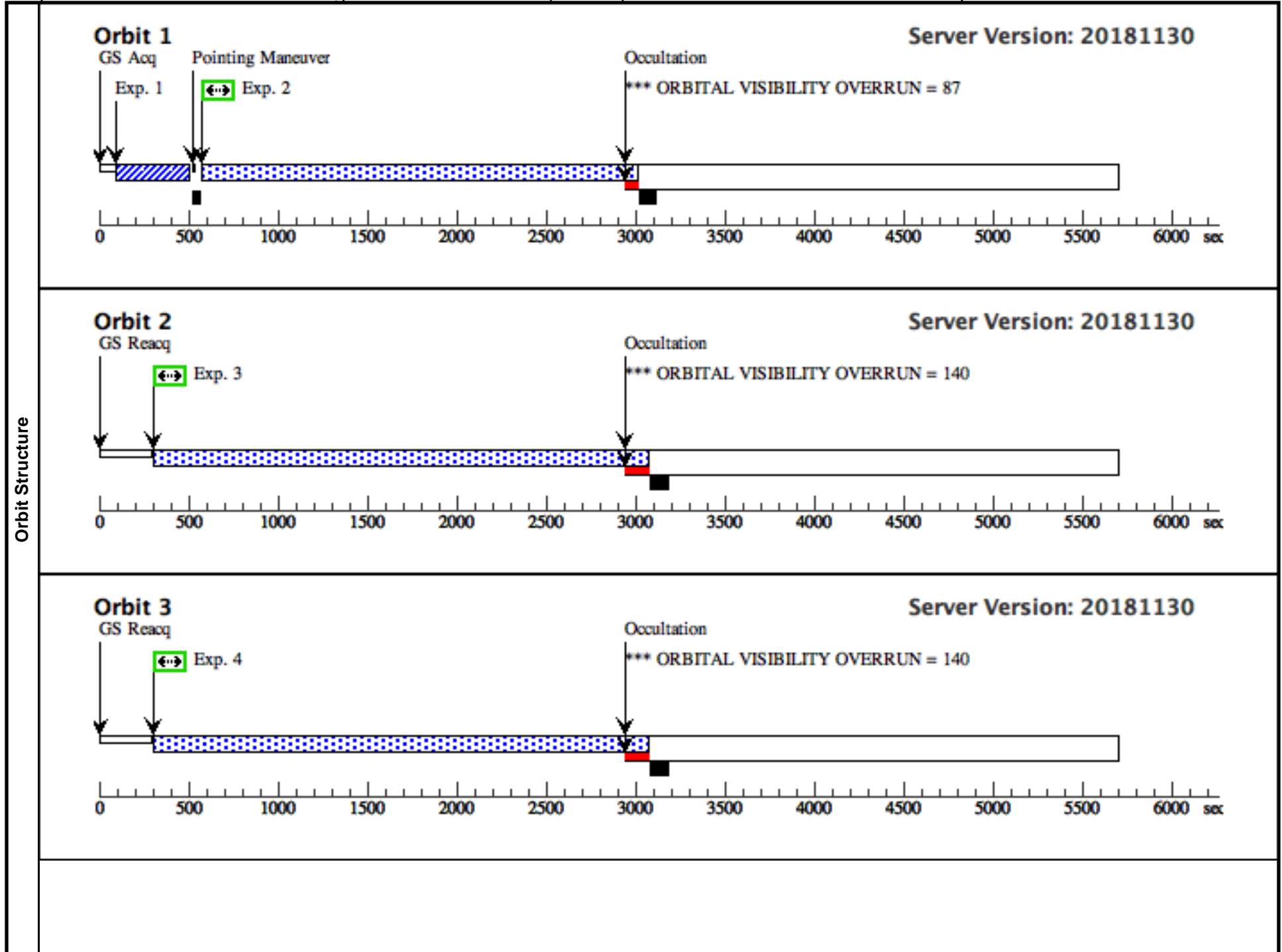


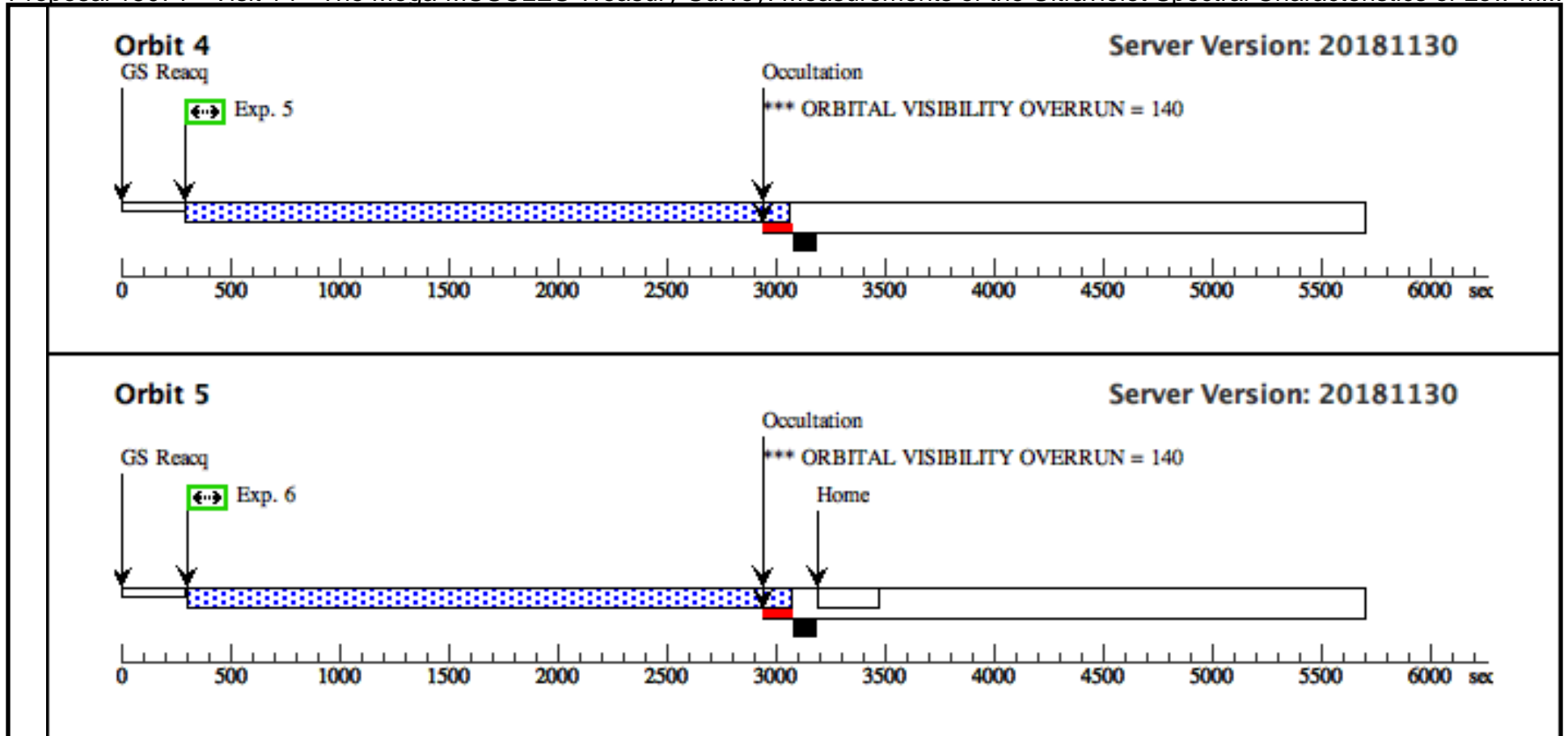


Proposal 15071 - Visit 14 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:44 GMT 2019

Visit	<p>Proposal 15071, Visit 14, scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%</p> <p><i>Comments: Input for ETC is 3300 K blackbody (NUV and optical only) plus distance-scaled line fluxes from MUSCLES GJ436 observations.</i></p> <p><i>01/25/2018: Changed target acq. exposure time to adjust for new SNR requirements.</i></p>									
	<p>(Visit 14) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(Visit 14) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 14) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 14) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 14) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 14) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	GJ163	RA: 04 09 15.6635 (62.3152646d) Dec: -53 22 25.30 (-53.37369d) Equinox: J2000	Proper Motion RA: 1033.54 mas/yr Proper Motion Dec: 497.4 mas/yr Parallax: 0.06659" Epoch of Position: 2000	V=11.811	Reference Frame: ICRS				
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. GAIA coordinates. Proper motions and parallax from Winters et al. 2015, ApJ, 149, 5. Uncertainties on coordinates from difference between proper motion correction in Winters and Simbad value (van Leeuwen 2007).</i></p> <p>Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, M V-IV] Extended=NO</p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.104 8441)	(5) GJ163	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				58 Secs (58 Secs)	
									[==>]	[1]
	2	(COS.sp.100 7219)	(5) GJ163	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=28 00.0; FP-POS=3			2268 Secs (2268 Secs)	
									[==>]	[1]
	3	(COS.sp.101 0369)	(5) GJ163	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=28 00.0; FP-POS=3			2716 Secs (2716 Secs)	
									[==>]	[2]
4	(COS.sp.101 0369)	(5) GJ163	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=28 00.0; FP-POS=3			2716 Secs (2716 Secs)		
								[==>]	[3]	
5	(COS.sp.101 0369)	(5) GJ163	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=28 00.0; FP-POS=4			2716 Secs (2716 Secs)		
								[==>]	[4]	
6	(COS.sp.101 0369)	(5) GJ163	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=28 00.0; FP-POS=4			2716 Secs (2716 Secs)		
								[==>]	[5]	

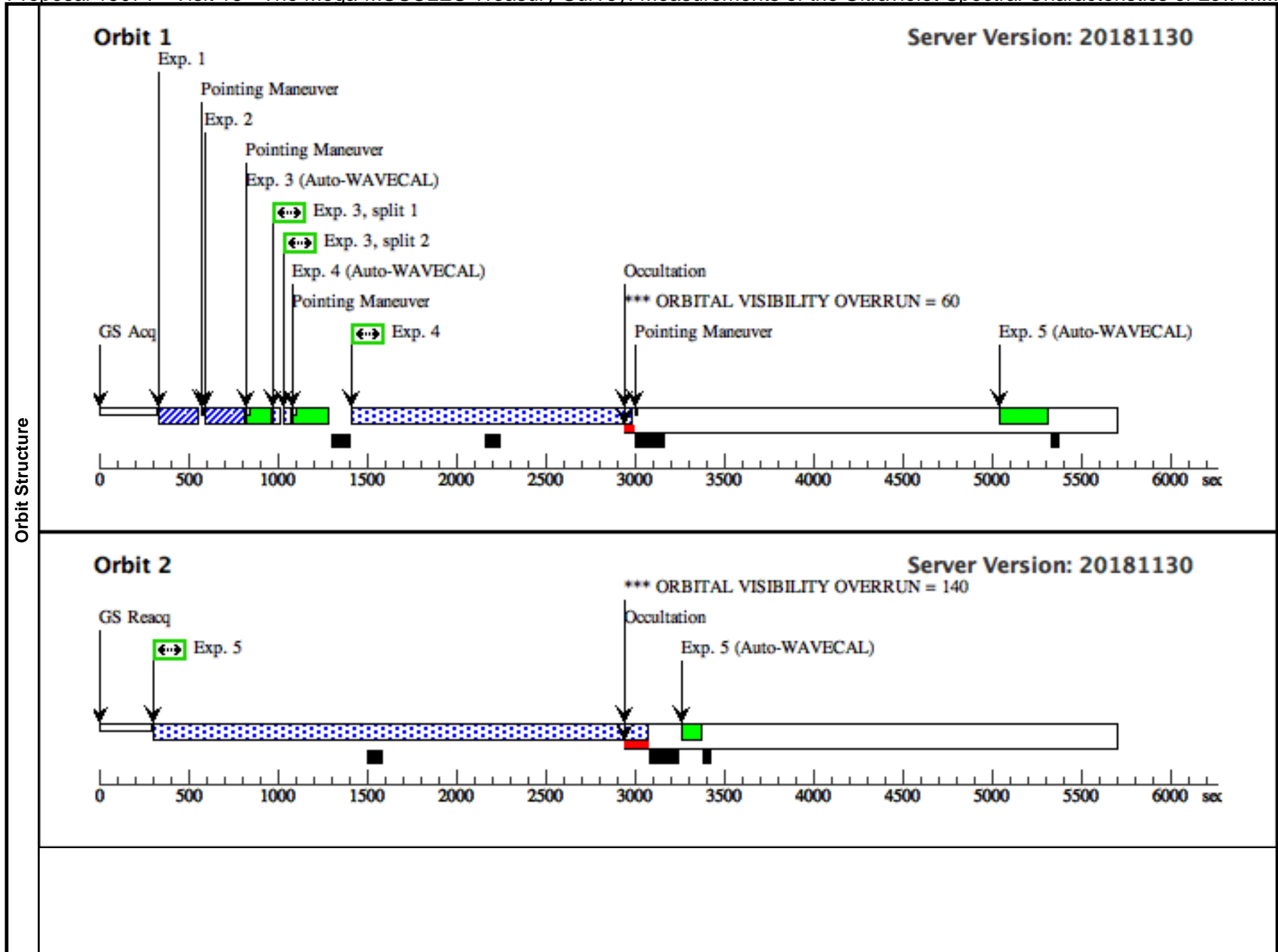


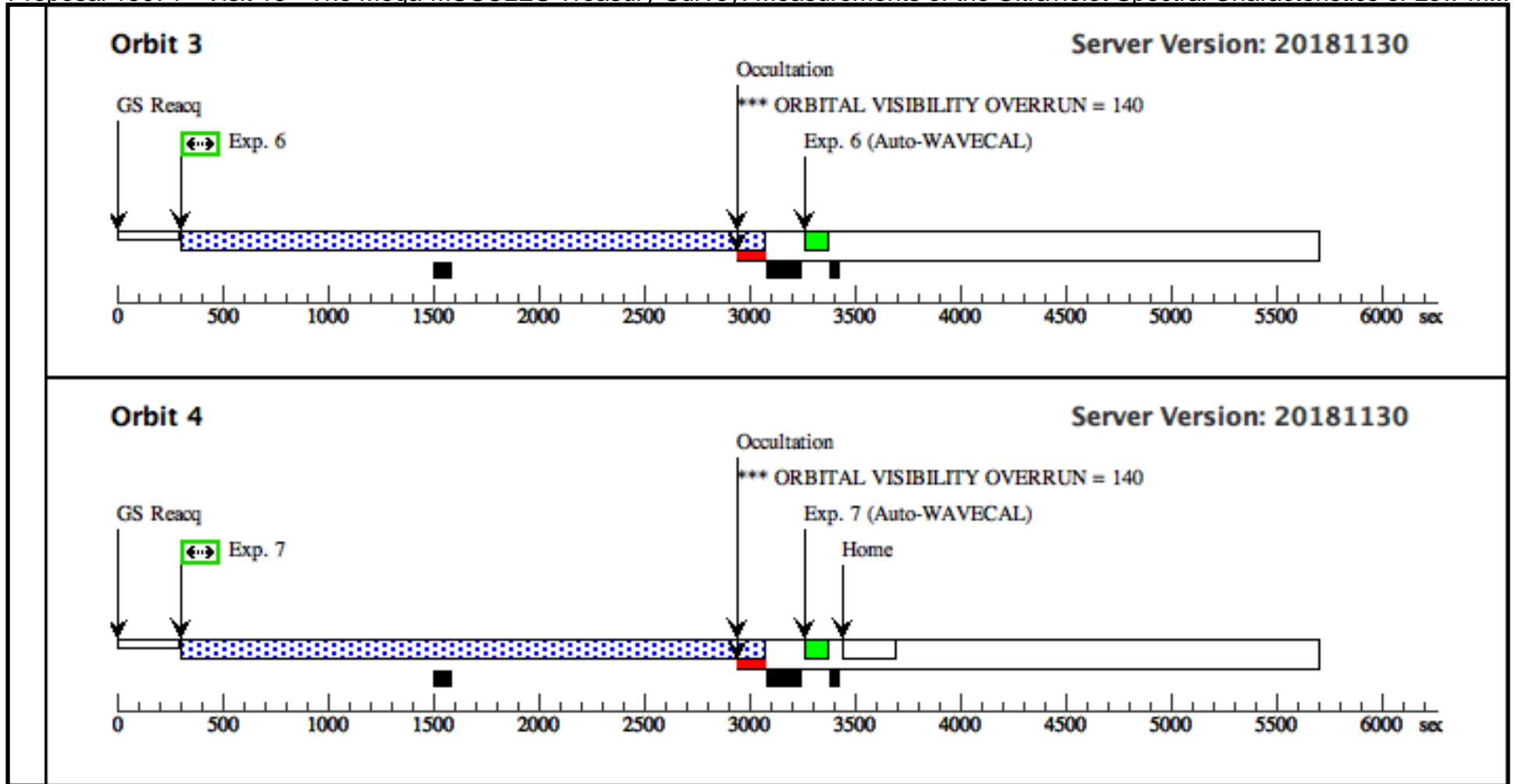


Proposal 15071 - Visit 15 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:44 GMT 2019

Visit	Proposal 15071, Visit 15, scheduling Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100%; GROUP 15,14 WITHIN 4D <i>Comments: Input for ETC is 3300 K blackbody (NUV and optical only) plus distance-scaled line fluxes from MUSCLES GJ436 observations.</i>										
	Diagnostics	(Visit 15) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 15) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 15) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 15) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	GJ163	RA: 04 09 15.6635 (62.3152646d) Dec: -53 22 25.30 (-53.37369d) Equinox: J2000	Proper Motion RA: 1033.54 mas/yr Proper Motion Dec: 497.4 mas/yr Parallax: 0.06659" Epoch of Position: 2000	V=11.811	Reference Frame: ICRS					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. GAIA coordinates. Proper motions and parallax from Winters et al. 2015, ApJ, 149, 5. Uncertainties on coordinates from difference between proper motion correction in Winters and Simbad value (van Leeuwen 2007).</i> Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, 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	(STIS.ta.101 0403)	(5) GJ163	STIS/CCD, ACQ, F28X50LP	MIRROR				0.2 Secs (0.2 Secs) [==>]	[1]	
	<i>Comments: 3300 K blackbody normalized to V=11.81.</i>										
	2	(STIS.ta.101 0414)	(5) GJ163	STIS/CCD, ACQ/PEAK, 52X0.1	MIRROR				0.2 Secs (0.2 Secs) [==>]	[1]	
	<i>Comments: 3300 K blackbody normalized to V=11.81.</i>										
	3	(STIS.sp.10 10416)	(5) GJ163	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A				15 Secs (15 Secs) [==>(Split 1)] [==>(Split 2)]	[1]	
	4	(STIS.sp.10 10417)	(5) GJ163	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=75 0.0			1556. Secs (1556 Secs) [==>]	[1]	
	5	(STIS.sp.10 10419)	(5) GJ163	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A	BUFFER-TIME=12 00.0			2750 Secs (2750 Secs) [==>]	[2]	
6	(STIS.sp.10 10419)	(5) GJ163	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A	BUFFER-TIME=12 00.0			2750 Secs (2750 Secs) [==>]	[3]		
7	(STIS.sp.10 10419)	(5) GJ163	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A	BUFFER-TIME=12 00.0			2750 Secs (2750 Secs) [==>]	[4]		

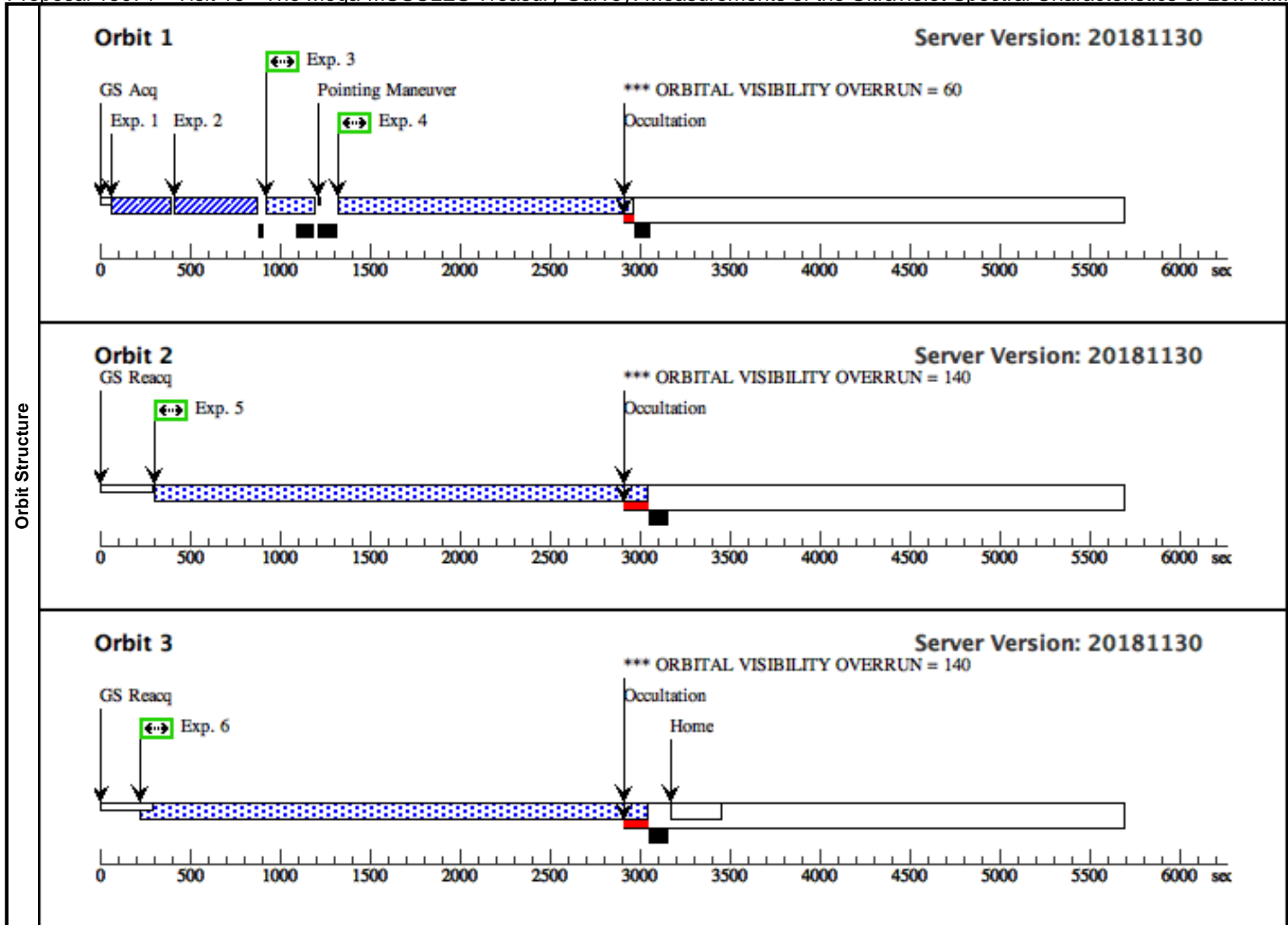




Proposal 15071 - Visit 16 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:44 GMT 2019

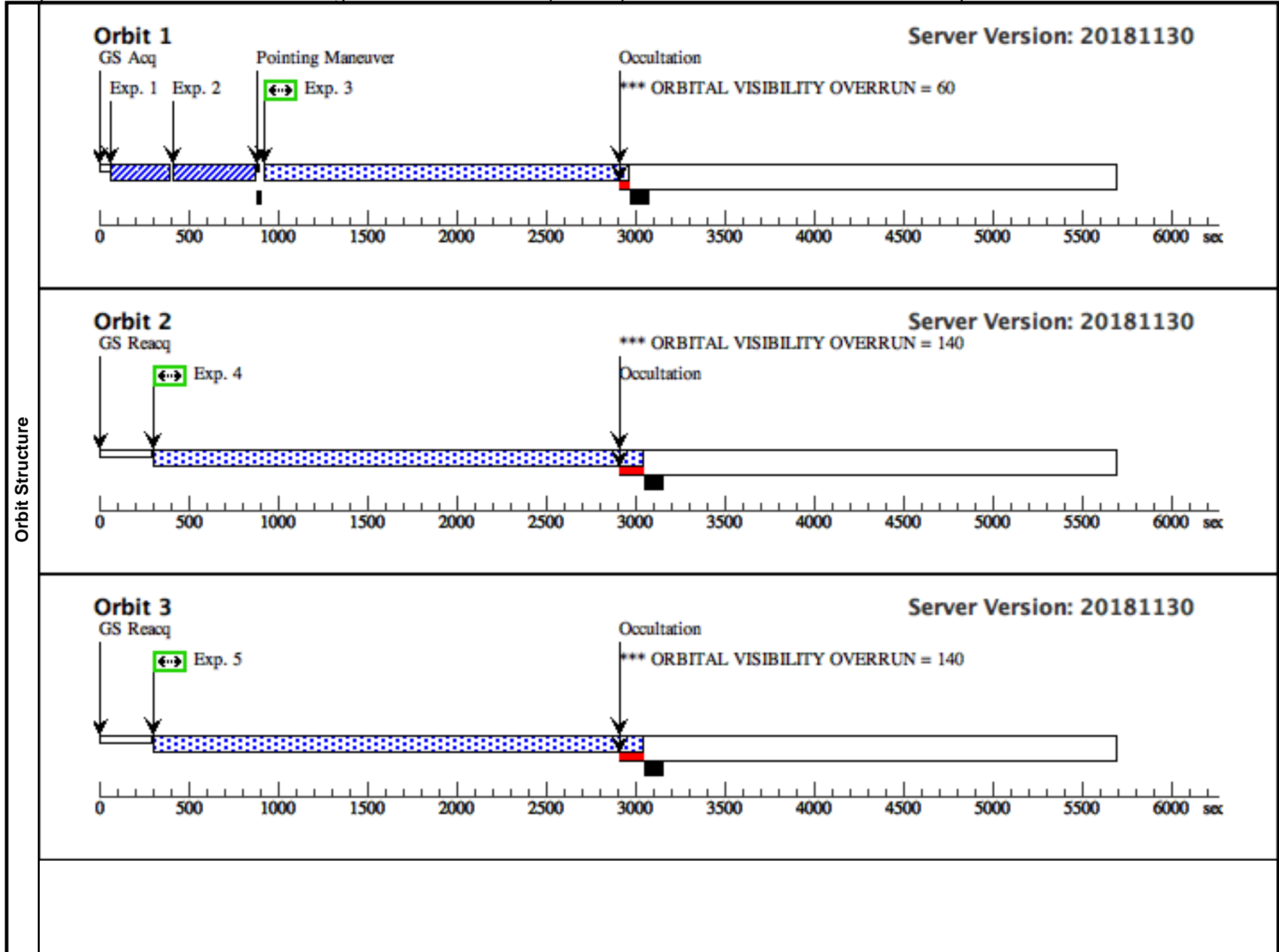
Visit	Proposal 15071, Visit 16, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: PCS MODE FINE; SCHED 100%; GROUP 16,17,18 WITHIN 72H <i>Comments: 01/25/18: Changed target acq to dispersed light to clear BOP.</i>																																																																																								
	Diagnosics (Visit 16) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (Visit 16) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 16) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 16) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																																								
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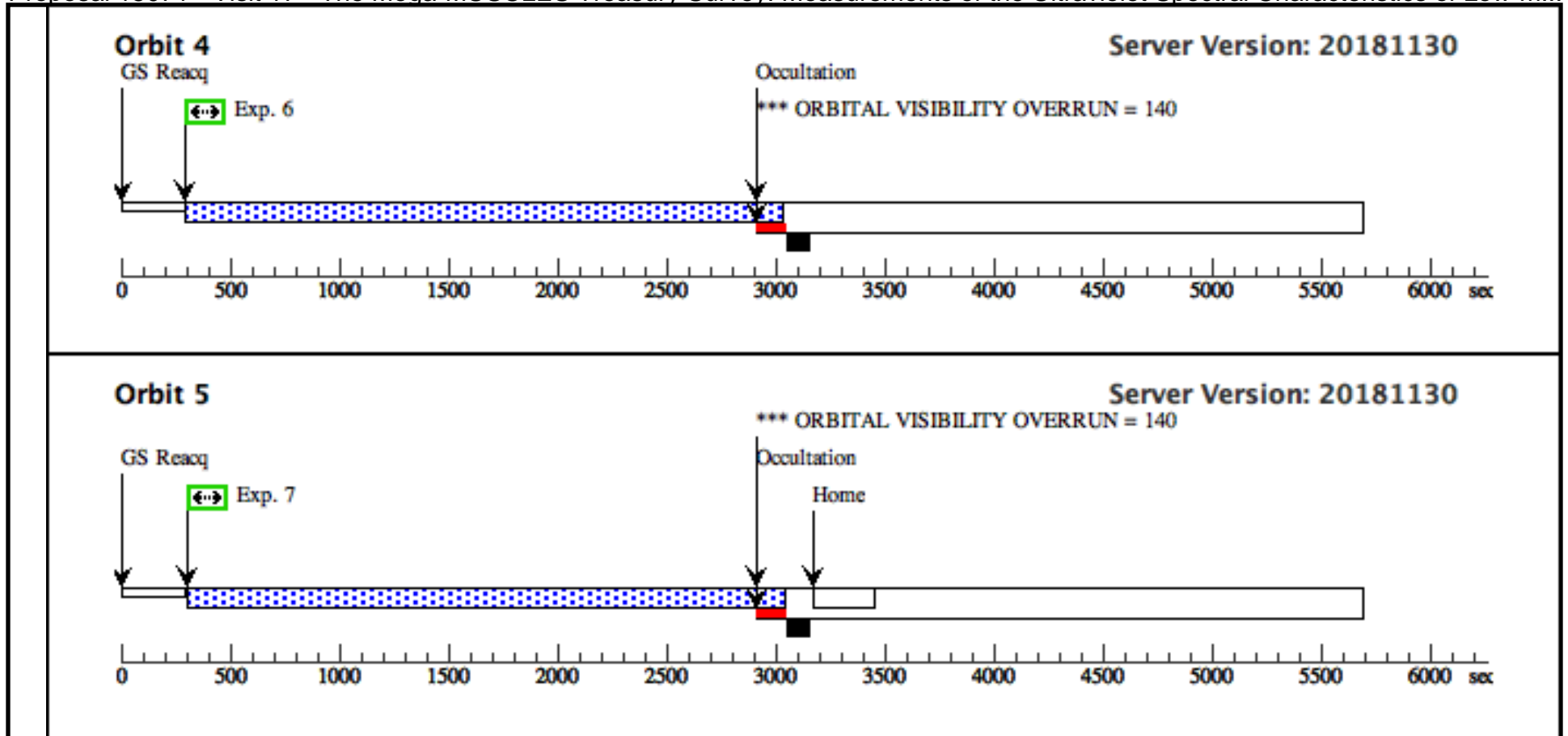


Proposal 15071 - Visit 17 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:44 GMT 2019

Visit	Proposal 15071, Visit 17, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100% <i>Comments: 01/25/18: Changed target acq to dispersed light to clear BOP.</i>																																																																																																			
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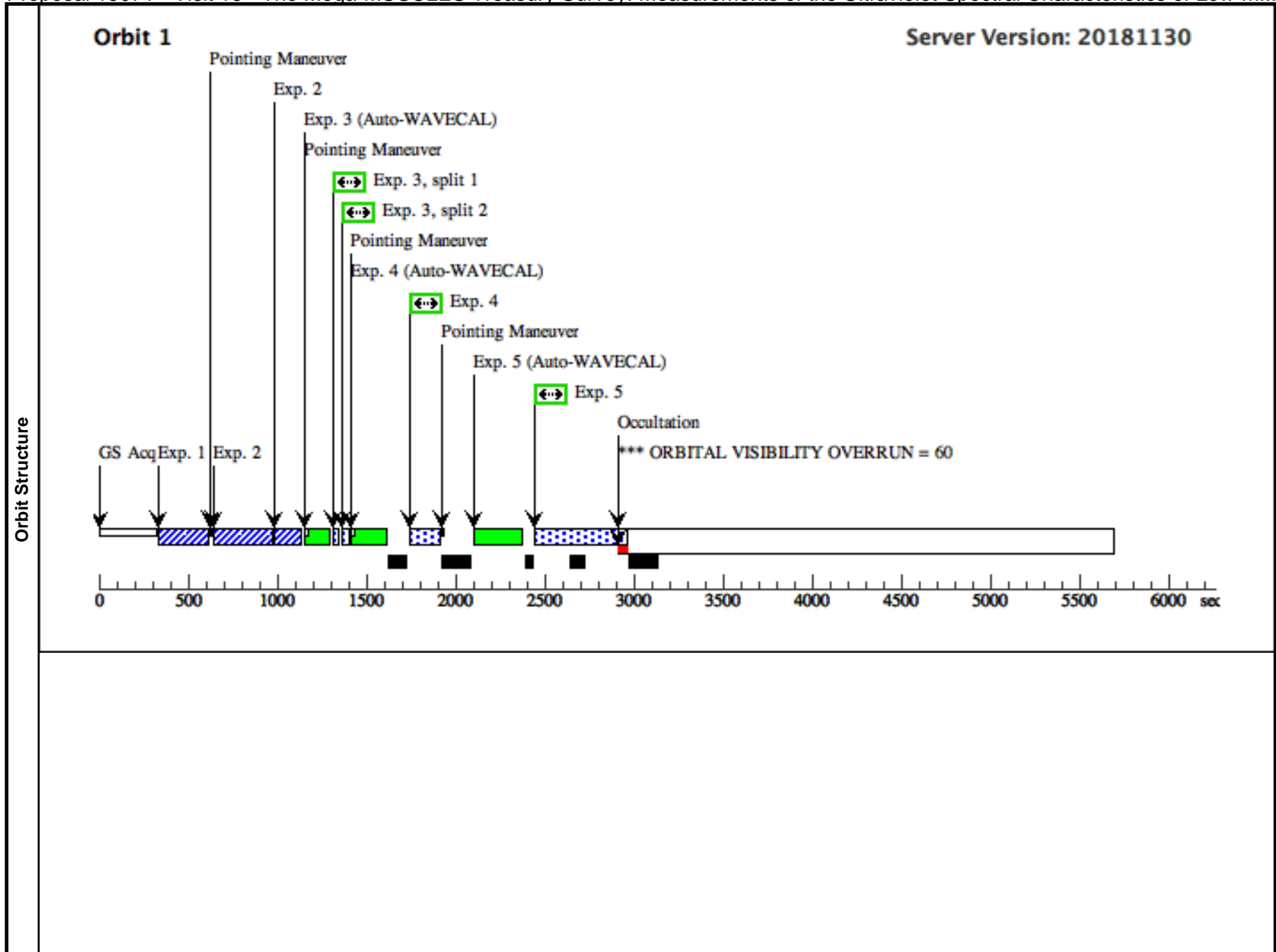


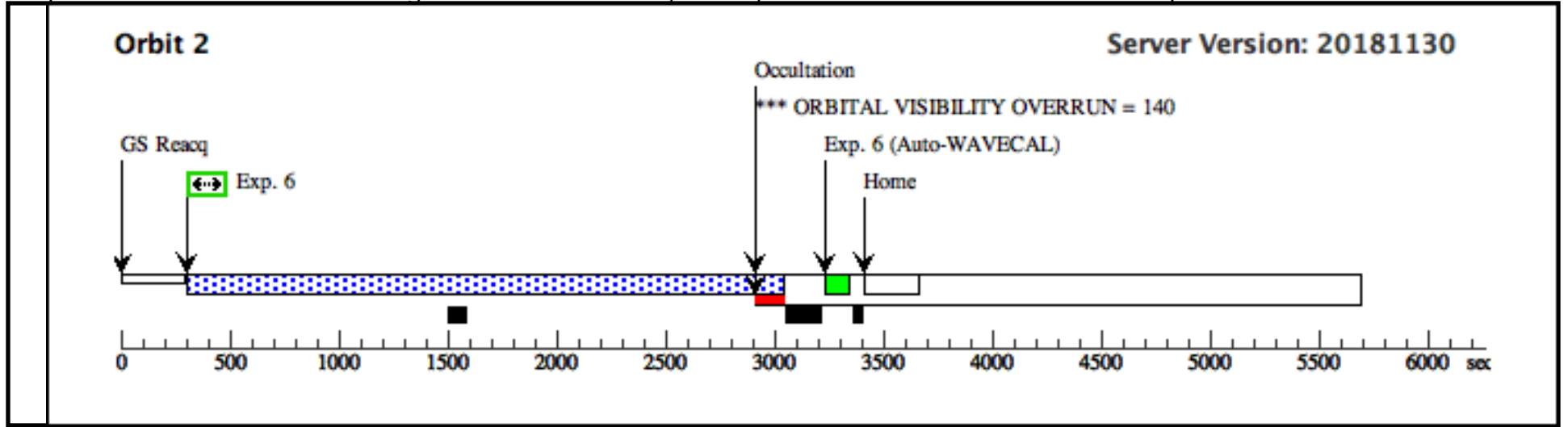


Proposal 15071 - Visit 18 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:45 GMT 2019

Visit	Proposal 15071, Visit 18, implementation Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100%; GROUP 18,17 WITHIN 4D									
	(Visit 18) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 18) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
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	(6)	GJ849	RA: 22 09 40.3445 (332.4181021d) Dec: -04 38 26.65 (-4.64074d) Equinox: J2000	Proper Motion RA: 1136.1 mas/yr Proper Motion Dec: -21.8 mas/yr Parallax: 0.11325" Epoch of Position: 2000	V=10.366	Reference Frame: ICRS				
<i>Comments: This object was generated by the target selector and retrieved from the SIMBAD database. Coordinates from GAIA DRI. Proper motions from Tycho-2 catalog. Coordinate uncertainties from difference in proper motion corrections from Hipparcos (as quoted in Simbad) and Tycho.</i> Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, M V-IV] Extended=NO										
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	1	(STIS.ta.101 0542)	(6) GJ849	STIS/CCD, ACQ, F28X500III	MIRROR				2.0 Secs (2 Secs) [==>]	[1]
	<i>Comments: T=3300 K blackbody normalized to V=10.42 plus MgII emission from distance-scaled GJ436 template.</i>									
	2	(STIS.ta.101 1343)	(6) GJ849	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				2.0 Secs (2 Secs) [==>]	[1]
	3	(STIS.sp.10 10544)	(6) GJ849	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A				3 Secs (3 Secs) [==>(Split 1)] [==>(Split 2)]	[1]
	4	(STIS.sp.10 10545)	(6) GJ849	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=99.0			154 Secs (154 Secs) [==>]	[1]
	5	(STIS.sp.10 10546)	(6) GJ849	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A	BUFFER-TIME=20.0			500 Secs (500 Secs) [==>]	[1]
6	(STIS.sp.10 10546)	(6) GJ849	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A	BUFFER-TIME=12.00.0			2726 Secs (2726 Secs) [==>]	[2]	

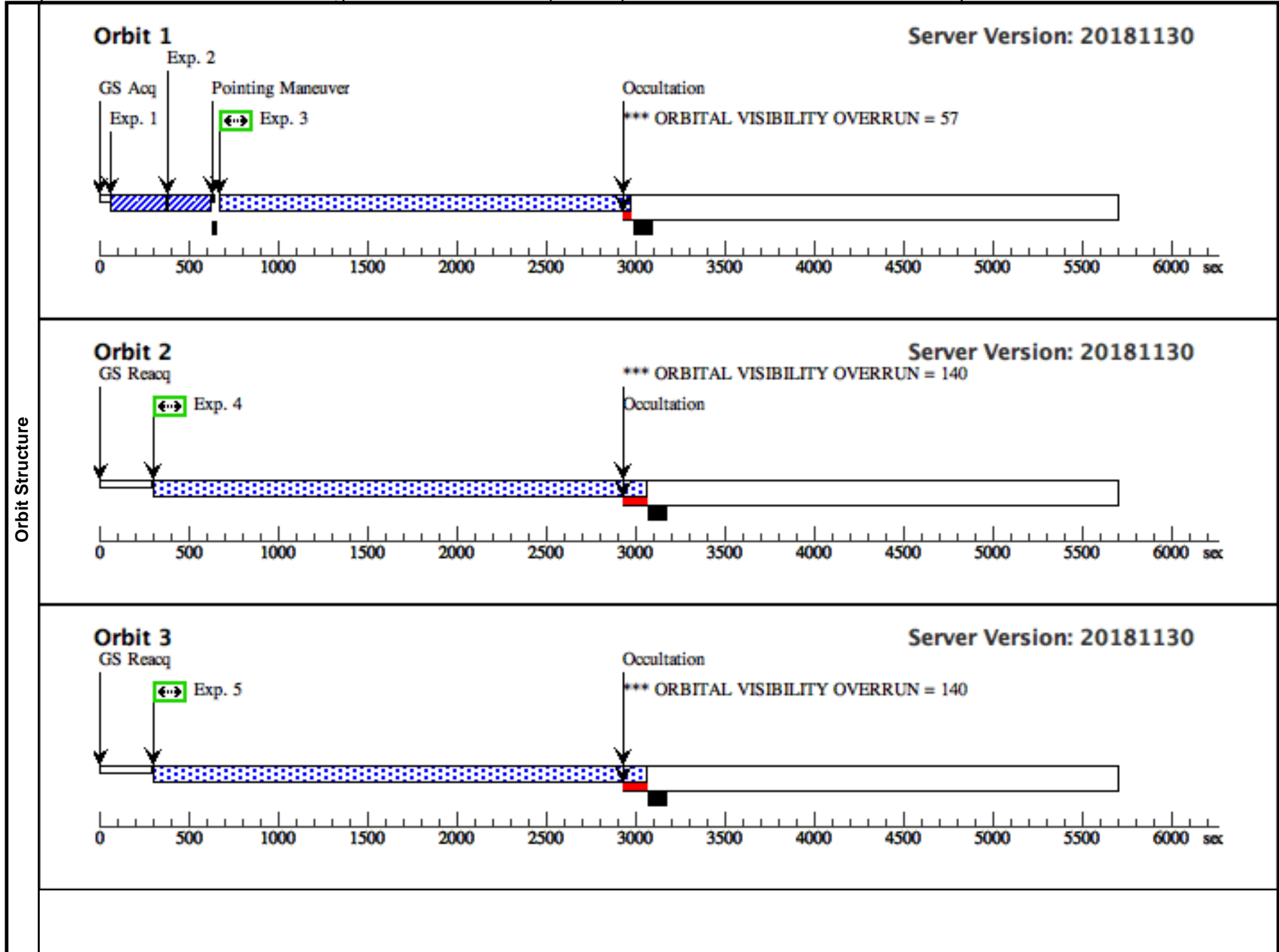


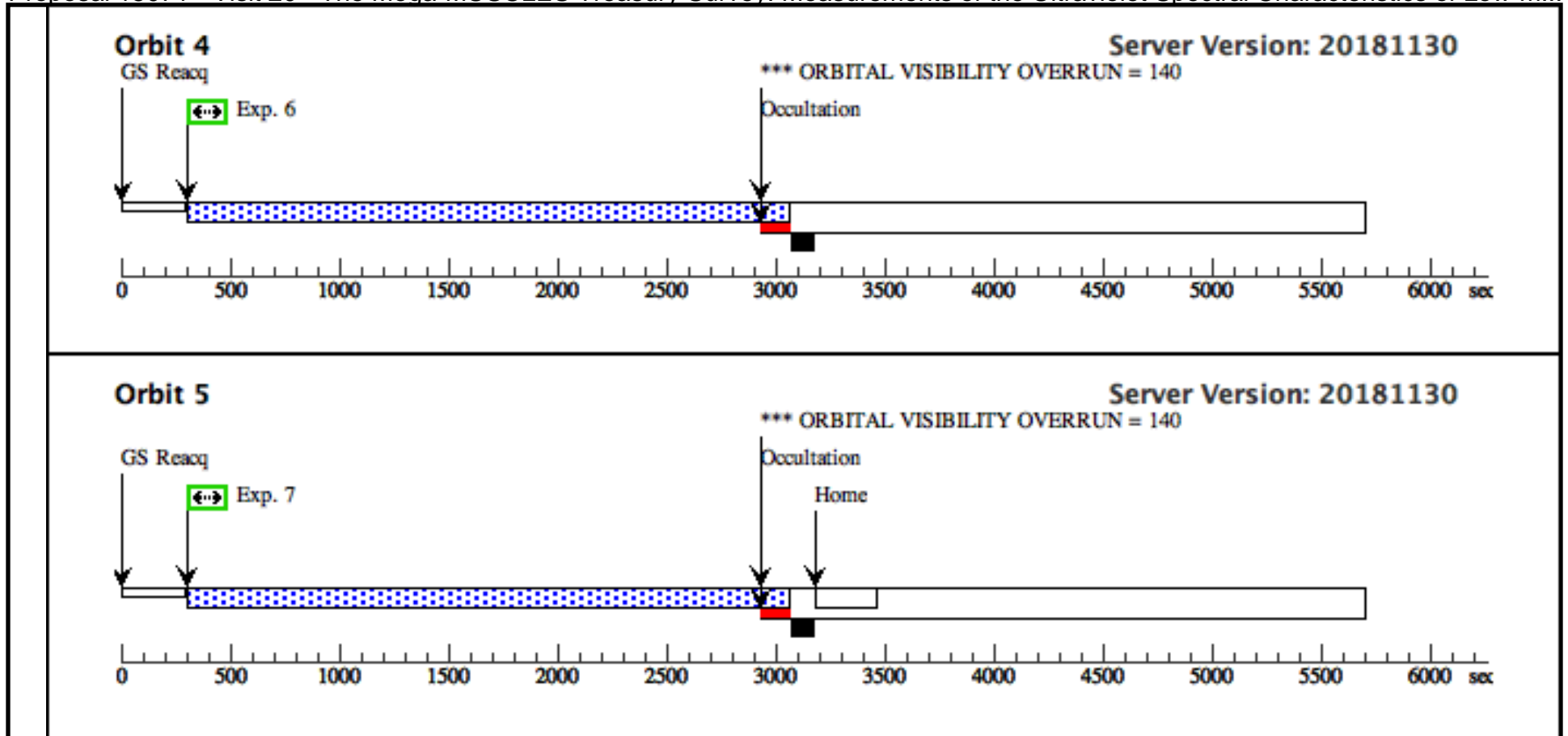


Proposal 15071 - Visit 20 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:45 GMT 2019

Visit	<p>Proposal 15071, Visit 20, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: PCS MODE FINE; SCHED 100%</p> <p><i>Comments: Input spectra for ETC calculations are the MUSCLES spectrum of GJ436 scaled to the distance of GJ1132 for the FUV observations and GJ876 for the NUV. (GJ876 had a flare during the FUV observations so the lines measured at that time are not quiescent fluxes).</i></p> <p>01/24/18: G130M grating setting moved from 1291 to 1222. ETC calculations updated for new setting.</p>																																																																																									
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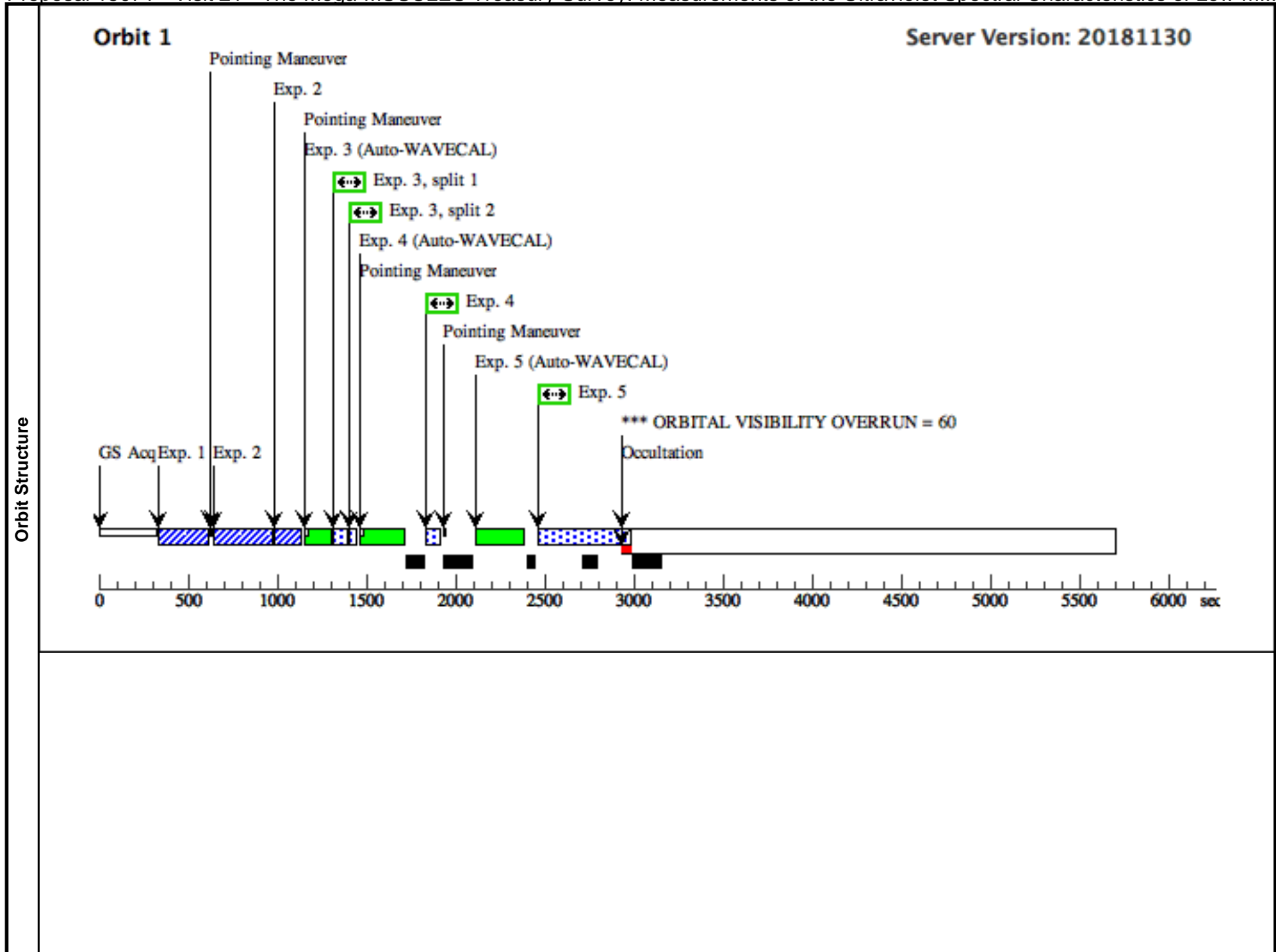




Proposal 15071 - Visit 21 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

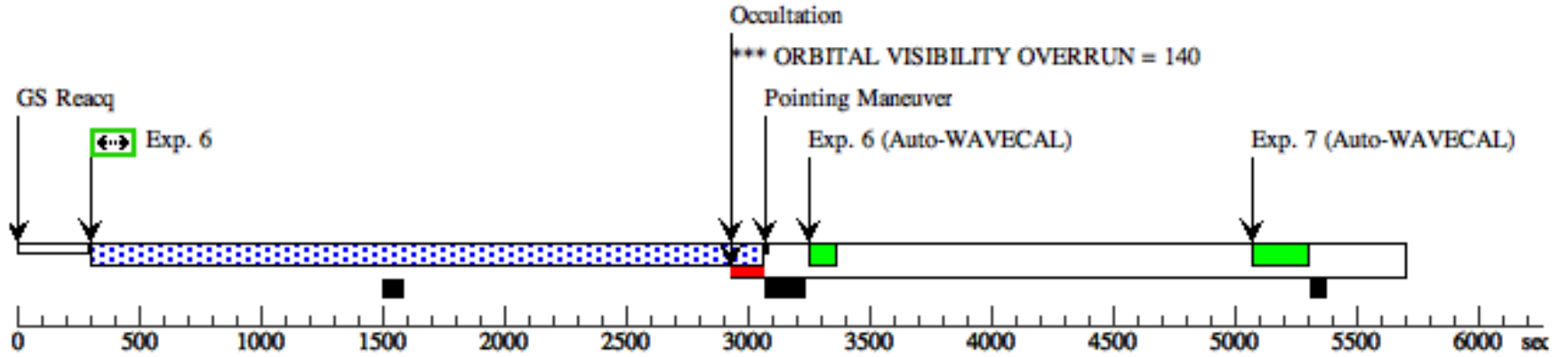
Mon May 06 20:01:45 GMT 2019

Visit	<p>Proposal 15071, Visit 21, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: PCS MODE FINE; SCHED 100%; GROUP 21,20 WITHIN 1D</p> <p><i>Comments: Input spectra for ETC calculations are the MUSCLES spectrum of GJ436 scaled to the distance of GJ1132 for the FUV observations and GJ876 for the NUV. (GJ876 had a flare during the FUV observations so the lines measured at that time are not quiescent fluxes).</i></p> <p><i>01/24/18: Changed time constraint to tie to Visit 20 rather than the (now deleted) Visit 19. Added STIS G140L exposures to replace COS modes with BOP flags.</i></p>																																																																																																																																																																																																																				
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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>(7)</td> <td>GJ674</td> <td>RA: 17 28 39.9446 (262.1664358d) Dec: -46 53 42.69 (-46.89519d) Equinox: J2000</td> <td>Proper Motion RA: 573.7 mas/yr Proper Motion Dec: -878.1 mas/yr Parallax: 0.22024" Epoch of Position: 2000 Radial Velocity: -2.73 km/sec</td> <td>V=9.407</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. Coordinates from Hipparchos. Proper motions from Tycho-2 catalog. Coordinate uncertainties based on difference between Hipparchos proper motion (as quoted in Simbad) and Tycho values.</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]</i></p> <p><i>Extended=NO</i></p>											#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(7)	GJ674	RA: 17 28 39.9446 (262.1664358d) Dec: -46 53 42.69 (-46.89519d) Equinox: J2000	Proper Motion RA: 573.7 mas/yr Proper Motion Dec: -878.1 mas/yr Parallax: 0.22024" Epoch of Position: 2000 Radial Velocity: -2.73 km/sec	V=9.407	Reference Frame: ICRS																																																																																																																																																																																														
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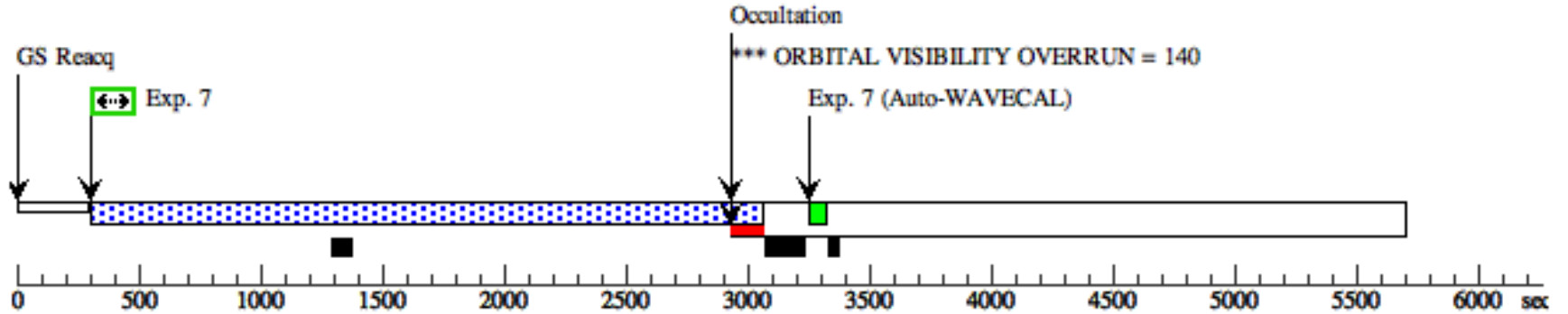
Orbit 2

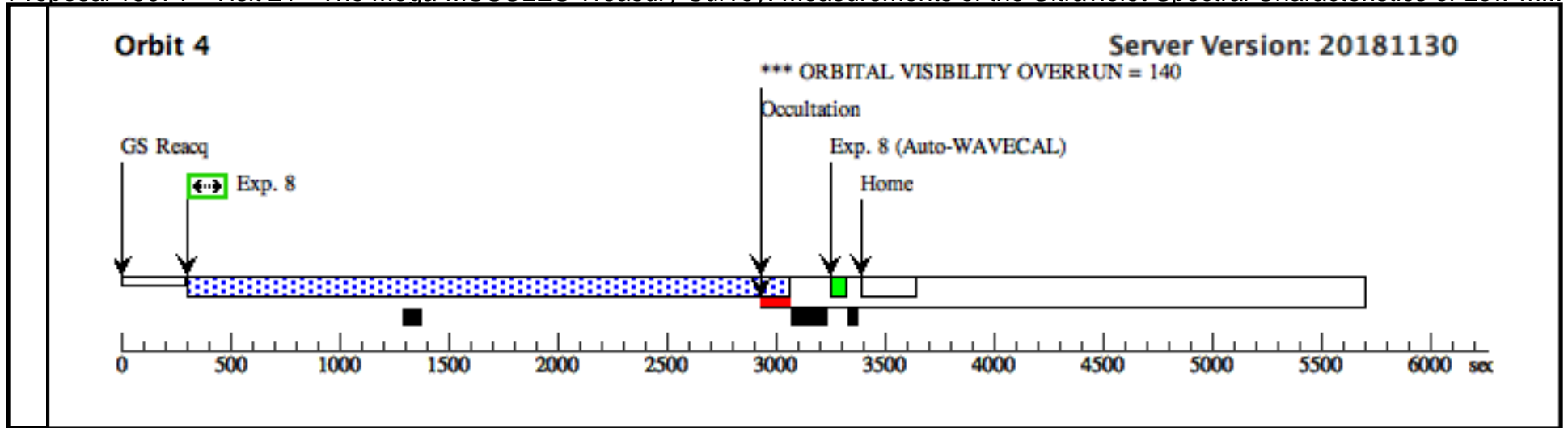
Server Version: 20181130



Orbit 3

Server Version: 20181130

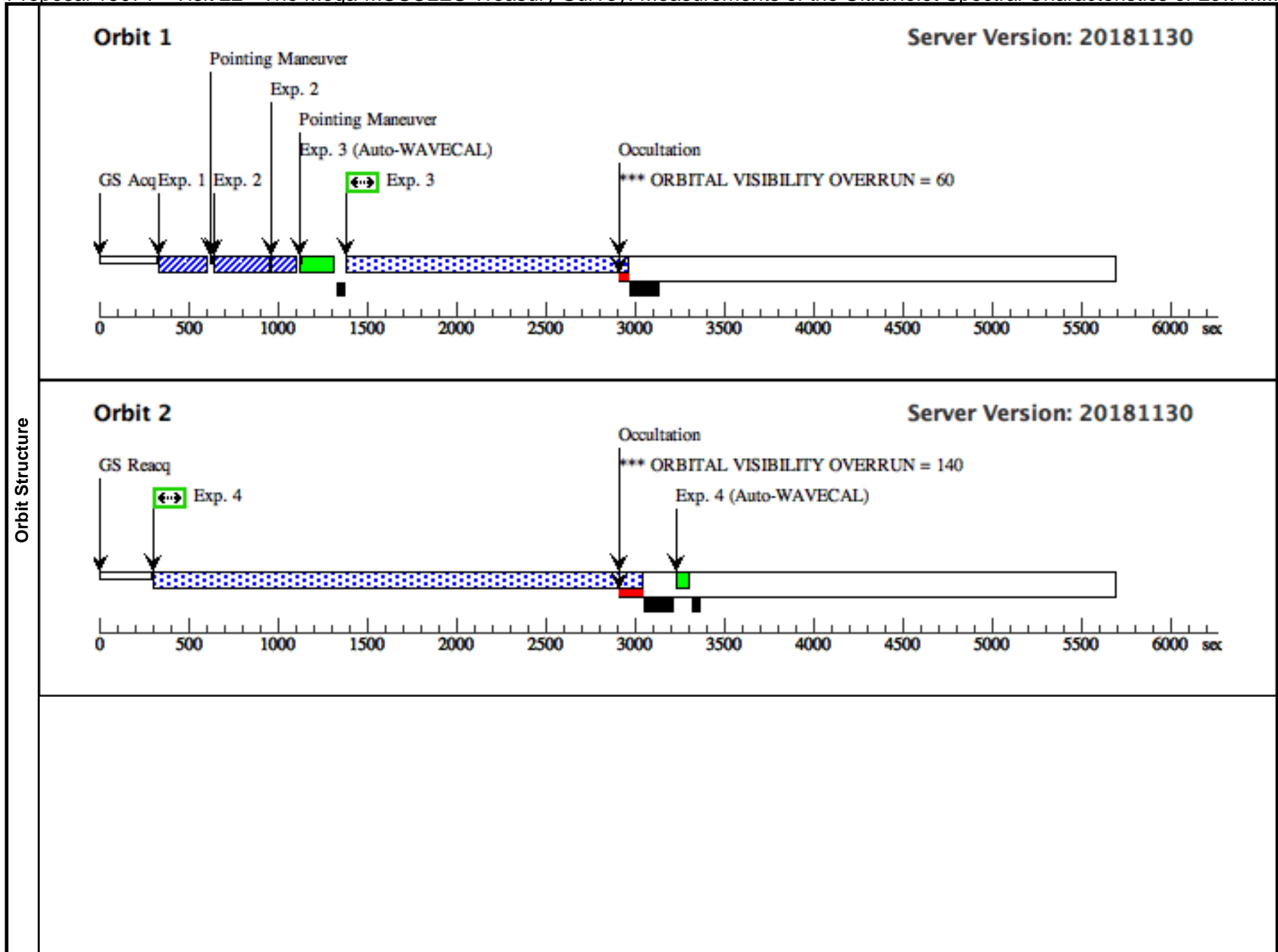


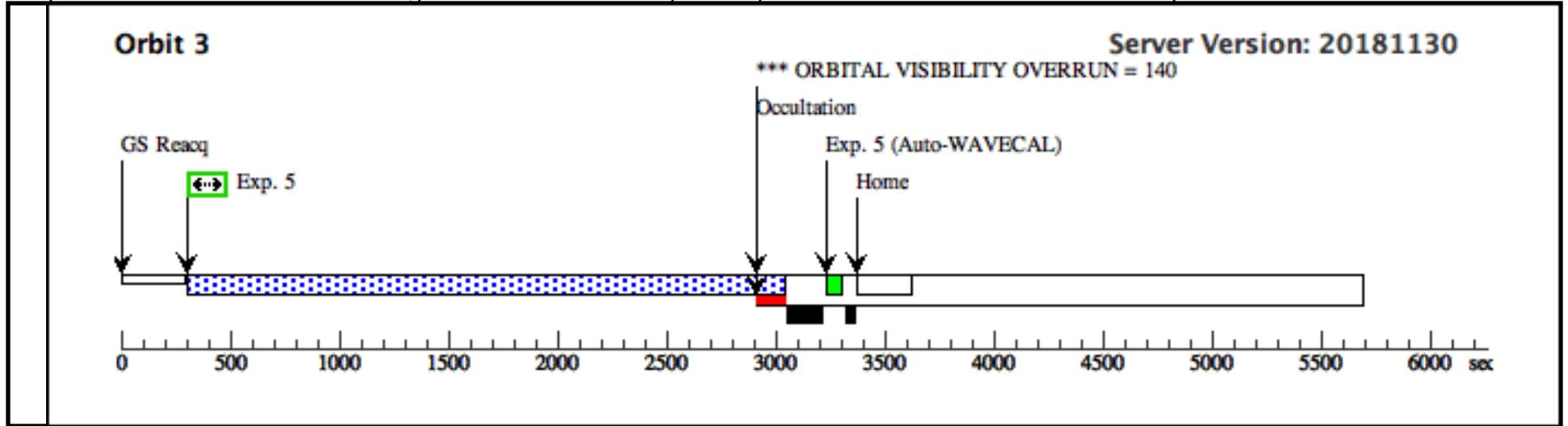


Proposal 15071 - Visit 22 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:45 GMT 2019

Visit	<p>Proposal 15071, Visit 22, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: PCS MODE FINE; SCHED 100%</p> <p><i>Comments: Input spectra for ETC calculations are the MUSCLES spectrum of GJ436 scaled to the distance of GJ1132 for the FUV observations and GJ876 for the NUV. (GJ876 had a flare during the FUV observations so the lines measured at that time are not quiescent fluxes).</i></p> <p>01/24/18: Changed this visit from COS G160M/G230L to STIS G140L for BOP.</p>									
	<p>(Visit 22) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 22) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 22) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	GJ699 Alt Name1: BARNARDS-STAR	RA: 17 57 48.4980 (269.4520750d) Dec: +04 41 36.21 (4.69339d) Equinox: J2000	Proper Motion RA: -798.8 mas/yr Proper Motion Dec: 10277.3 mas/yr Parallax: 0.5483" Epoch of Position: 2000	V=9.511	Reference Frame: ICRS				
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Coordinates from Hipparcos and proper motions from Tycho-2 catalog. Uncertainties on coordinates based on difference between Hipparcos coordinates and MEarth coordinates (as quoted in Newton et al. 2017, ApJ, 834, 85).</i></p> <p>Category=STAR Description=[M V-IV] Extended=NO</p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.101 2421)	(8) GJ699	STIS/CCD, ACQ, F28X500III	MIRROR				1 Secs (1 Secs) [==>]	[1]
	<p><i>Comments: Following successful target acq. procedures for this target (GO 14757), will use long pass filter to distinguish GJ1132 from a nearby star that is more blue.</i></p>									
	2	(STIS.ta.101 2422)	(8) GJ699	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1 Secs (1 Secs) [==>]	[1]
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	4	(STIS.sp.10 46409)	(8) GJ699	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=20 00.0			2728.0 Secs (2728 Secs) [==>]	[2]
5	(STIS.sp.10 46409)	(8) GJ699	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=20 00.0			2728.0 Secs (2728 Secs) [==>]	[3]	



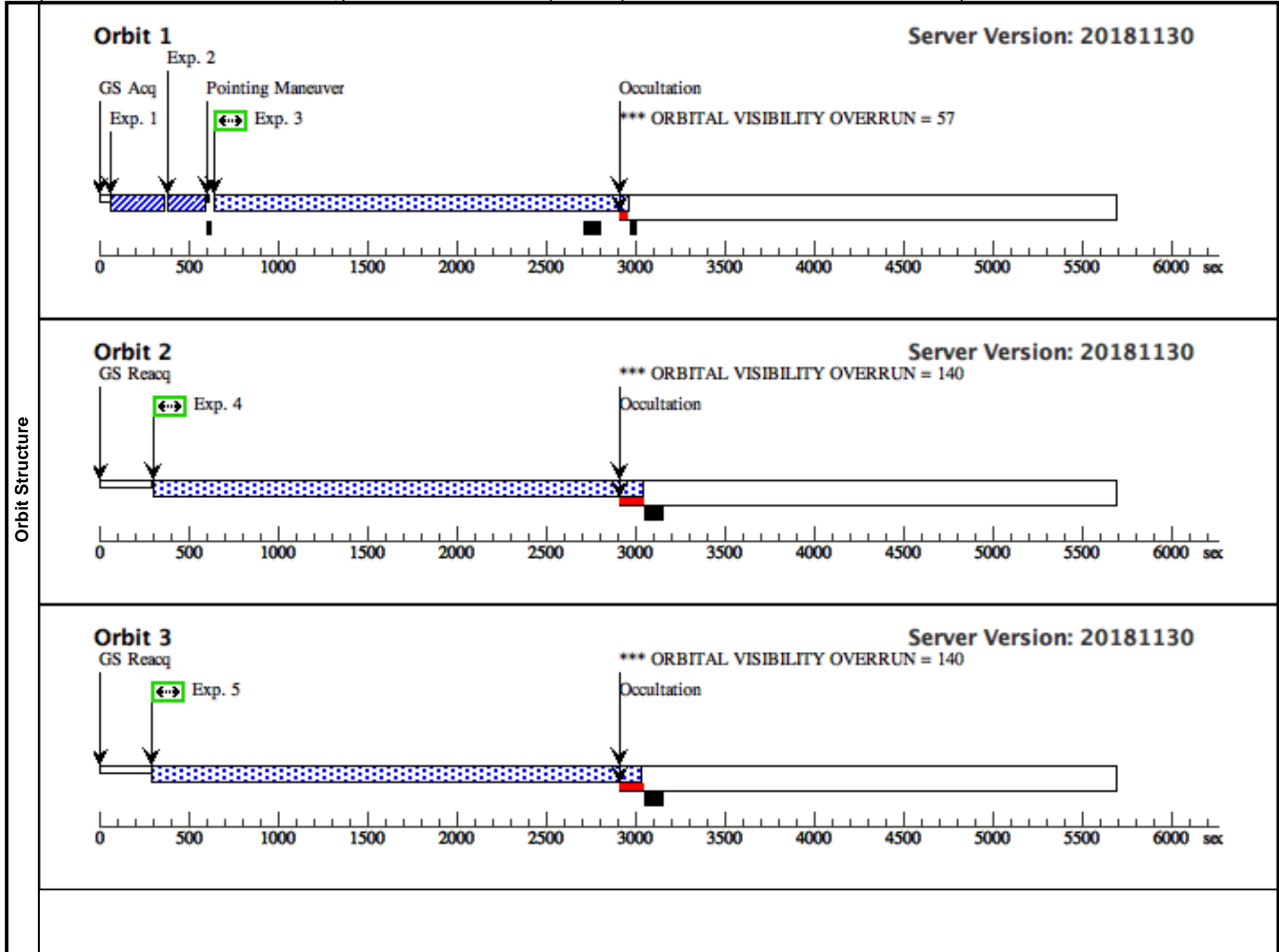


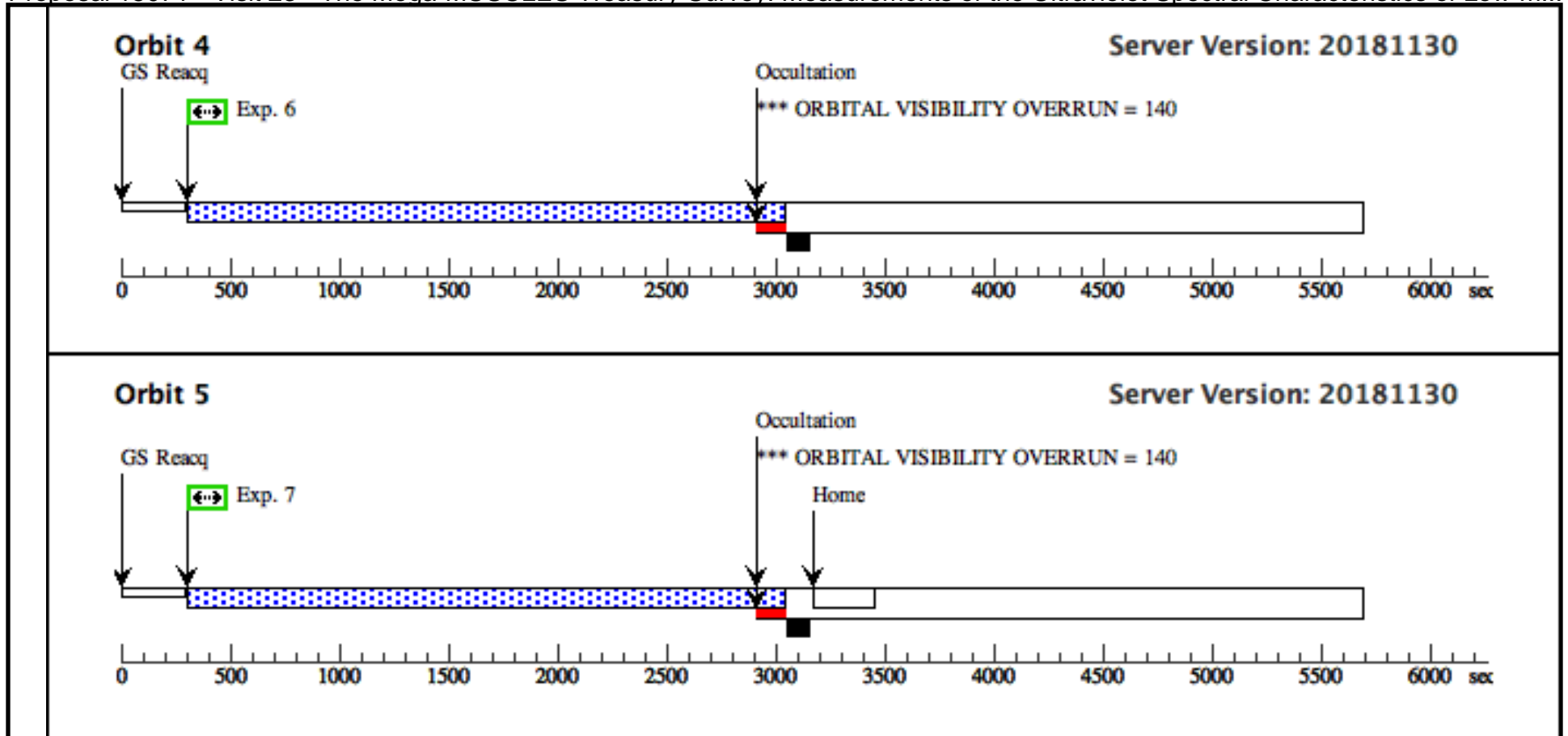
Proposal 15071 - Visit 23 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:45 GMT 2019

Visit	<p>Proposal 15071, Visit 23, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; AFTER 22 BY 0 D TO 1 D</p> <p><i>Comments: Input spectra for ETC calculations are the MUSCLES spectrum of GJ436 scaled to the distance of GJ1132 for the FUV observations and GJ876 for the NUV. (GJ876 had a flare during the FUV observations so the lines are not quiescent fluxes).</i></p> <p>01/24/18: Changed G130M/1291 to 1222 for BOP.</p>																																							
	<p>(Visit 23) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(Visit 23) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 23) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 23) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 23) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 23) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>																																							
Diagnosics	<p>(Visit 23) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(Visit 23) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 23) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 23) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 23) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 23) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>																																							
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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>(8)</td> <td>GJ699</td> <td>RA: 17 57 48.4980 (269.4520750d)</td> <td>Proper Motion RA: -798.8 mas/yr</td> <td>V=9.511</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: BARNARDS-STAR</td> <td>Dec: +04 41 36.21 (4.69339d)</td> <td>Proper Motion Dec: 10277.3 mas/yr</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Equinox: J2000</td> <td>Parallax: 0.5483"</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 2000</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Coordinates from Hipparcos and proper motions from Tycho-2 catalog. Uncertainties on coordinates based on difference between Hipparcos coordinates and MEarth coordinates (as quoted in Newton et al. 2017, ApJ, 834, 85).</i></p> <p>Category=STAR Description=[M V-IV] Extended=NO</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(8)	GJ699	RA: 17 57 48.4980 (269.4520750d)	Proper Motion RA: -798.8 mas/yr	V=9.511	Reference Frame: ICRS		Alt Name1: BARNARDS-STAR	Dec: +04 41 36.21 (4.69339d)	Proper Motion Dec: 10277.3 mas/yr					Equinox: J2000	Parallax: 0.5483"						Epoch of Position: 2000		
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																		
(8)	GJ699	RA: 17 57 48.4980 (269.4520750d)	Proper Motion RA: -798.8 mas/yr	V=9.511	Reference Frame: ICRS																																			
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		Equinox: J2000	Parallax: 0.5483"																																					
			Epoch of Position: 2000																																					
<p>(8)</p>																																								

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	(COS.sa.101 2349)	(8) GJ699	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=MEDIUM			13 Secs (13 Secs) [==>]
	2	(COS.sa.101 2349)	(8) GJ699	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			13 Secs (13 Secs) [==>]	[1]
	3	(COS.sp.104 6396)	(8) GJ699	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=19 05.0; FP-POS=3			2133 Secs (2133 Secs) [==>]	[1]
<i>Comments: Buffer time set to exposure time as target can increase in brightness.</i>										
	4	(COS.sp.104 6396)	(8) GJ699	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=27 07.0; FP-POS=3			2692 Secs (2692 Secs) [==>]	[2]
	5	(COS.sp.104 6396)	(8) GJ699	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=27 07.0; FP-POS=4			2692 Secs (2692 Secs) [==>]	[3]
	6	(COS.sp.104 6396)	(8) GJ699	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=27 07.0; FP-POS=4			2692 Secs (2692 Secs) [==>]	[4]
	7	(COS.sp.104 6396)	(8) GJ699	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=27 07.0; FP-POS=4			2692 Secs (2692 Secs) [==>]	[5]

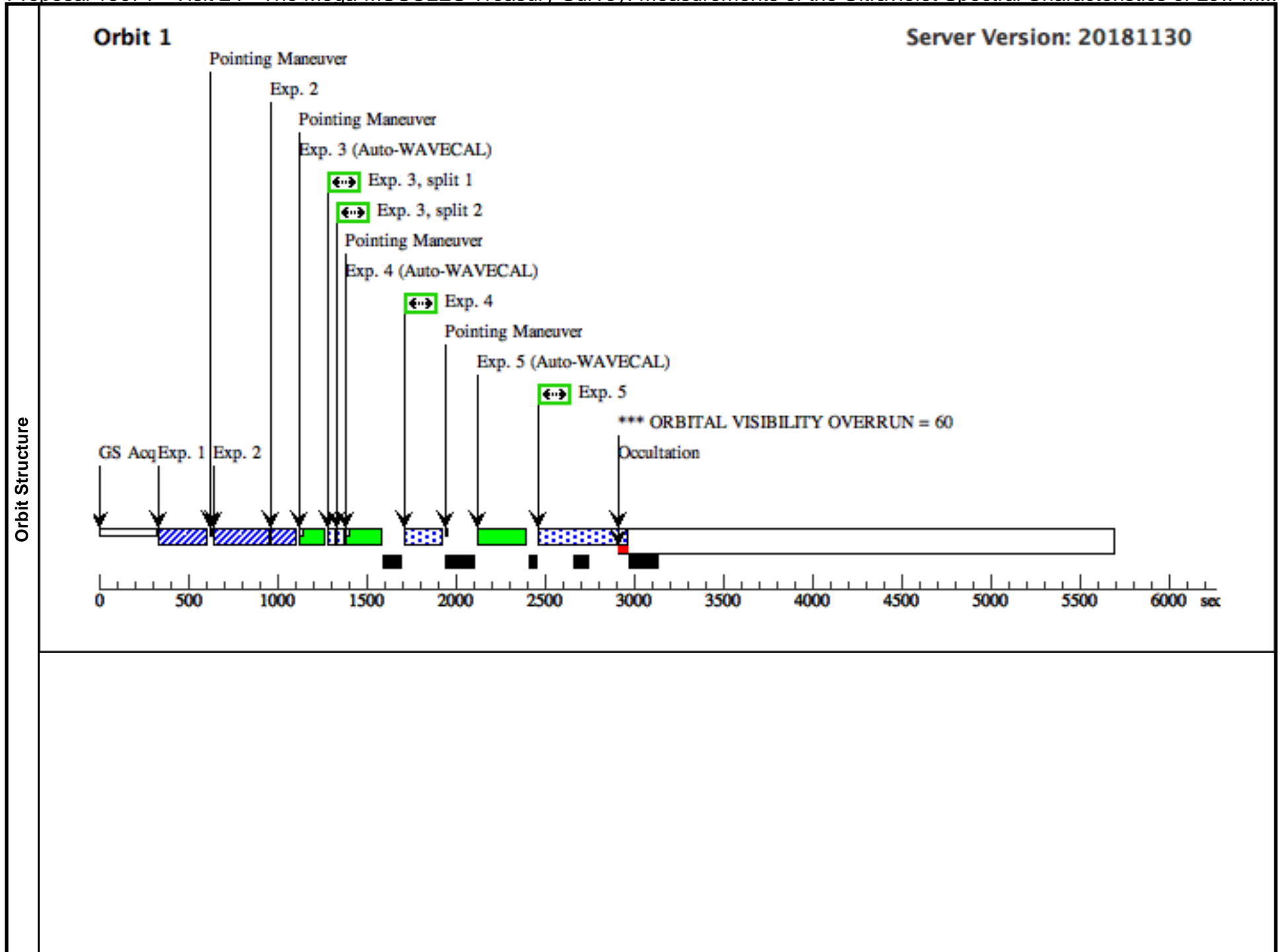


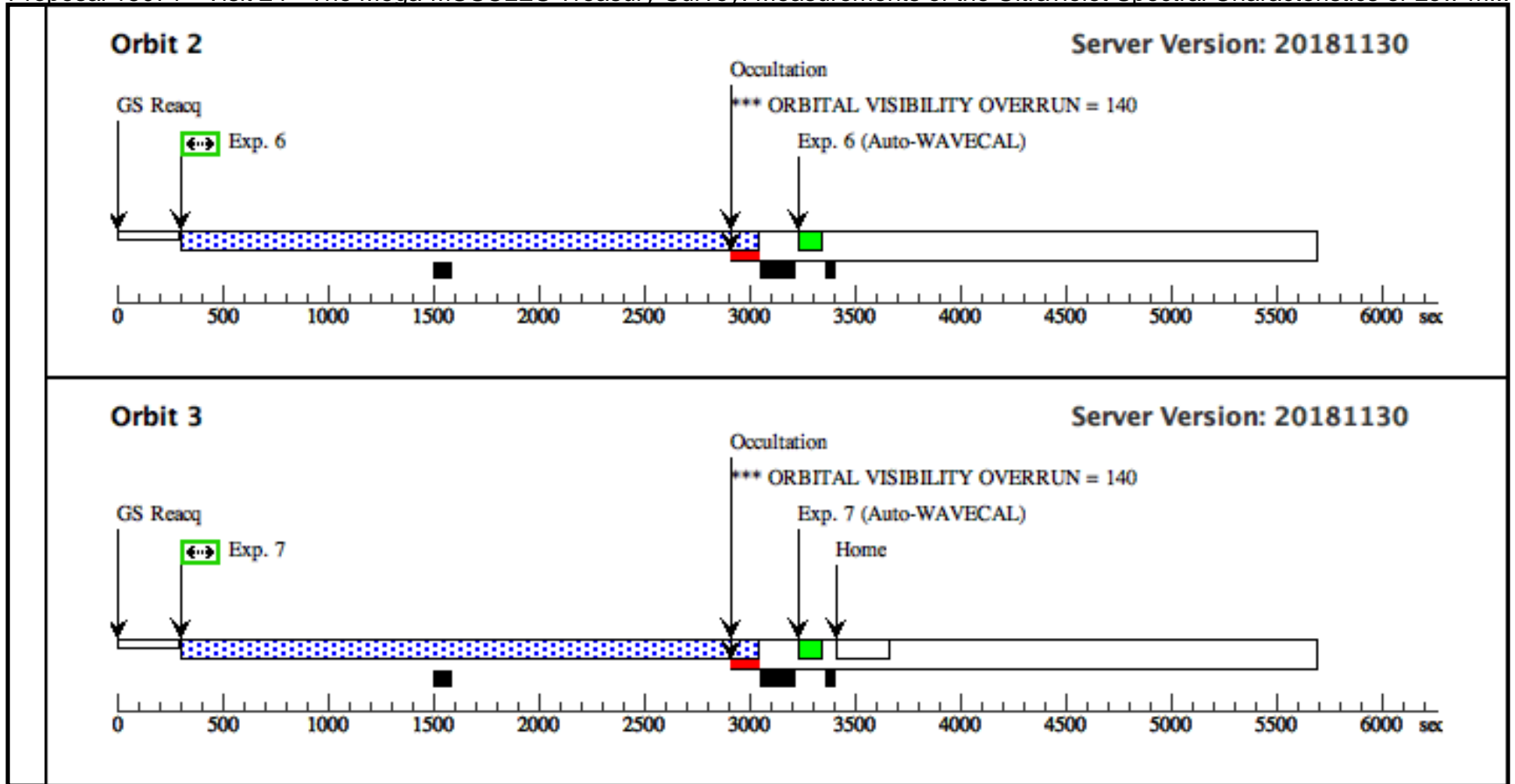


Proposal 15071 - Visit 24 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:45 GMT 2019

Visit	Proposal 15071, Visit 24, completed Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100%; AFTER 22 BY 0 D TO 1 D									
	(Visit 24) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 24) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 24) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	GJ699 Alt Name1: BARNARDS-STAR	RA: 17 57 48.4980 (269.4520750d) Dec: +04 41 36.21 (4.69339d) Equinox: J2000	Proper Motion RA: -798.8 mas/yr Proper Motion Dec: 10277.3 mas/yr Parallax: 0.5483" Epoch of Position: 2000	V=9.511	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Coordinates from Hipparcos and proper motions from Tycho-2 catalog. Uncertainties on coordinates based on difference between Hipparcos coordinates and MEarth coordinates (as quoted in Newton et al. 2017, ApJ, 834, 85).</i> Category=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	(STIS.ta.101 2421)	(8) GJ699	STIS/CCD, ACQ, F28X500III	MIRROR				1 Secs (1 Secs) [==>]	[1]
<i>Comments: Following successful target acq. procedures for this target (GO 14757), will use long pass filter to distinguish GJ1132 from a nearby star that is more blue.</i>										
2	(STIS.ta.101 2422)	(8) GJ699	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1 Secs (1 Secs) [==>]	[1]	
3	(STIS.sp.10 12423)	(8) GJ699	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A				5 Secs (5 Secs) [==>(Split 1)] [==>(Split 2)]	[1]	
4	(STIS.sp.10 12490)	(8) GJ699	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A		BUFFER-TIME=10 0.0		200 Secs (200 Secs) [==>]	[1]	
5	(STIS.sp.10 12494)	(8) GJ699	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A		BUFFER-TIME=20 0.0		480 Secs (480 Secs) [==>]	[1]	
<i>Comments: Buffer time set below ETC recommendation because target can increase in brightness.</i>										
6	(STIS.sp.10 12494)	(8) GJ699	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A		BUFFER-TIME=12 00.0		2726 Secs (2726 Secs) [==>]	[2]	
<i>Comments: Buffer time set below ETC recommendation because target can increase in brightness.</i>										
7	(STIS.sp.10 12494)	(8) GJ699	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A		BUFFER-TIME=12 00.0		2726 Secs (2726 Secs) [==>]	[3]	
<i>Comments: Buffer time set below ETC recommendation because target can increase in brightness.</i>										

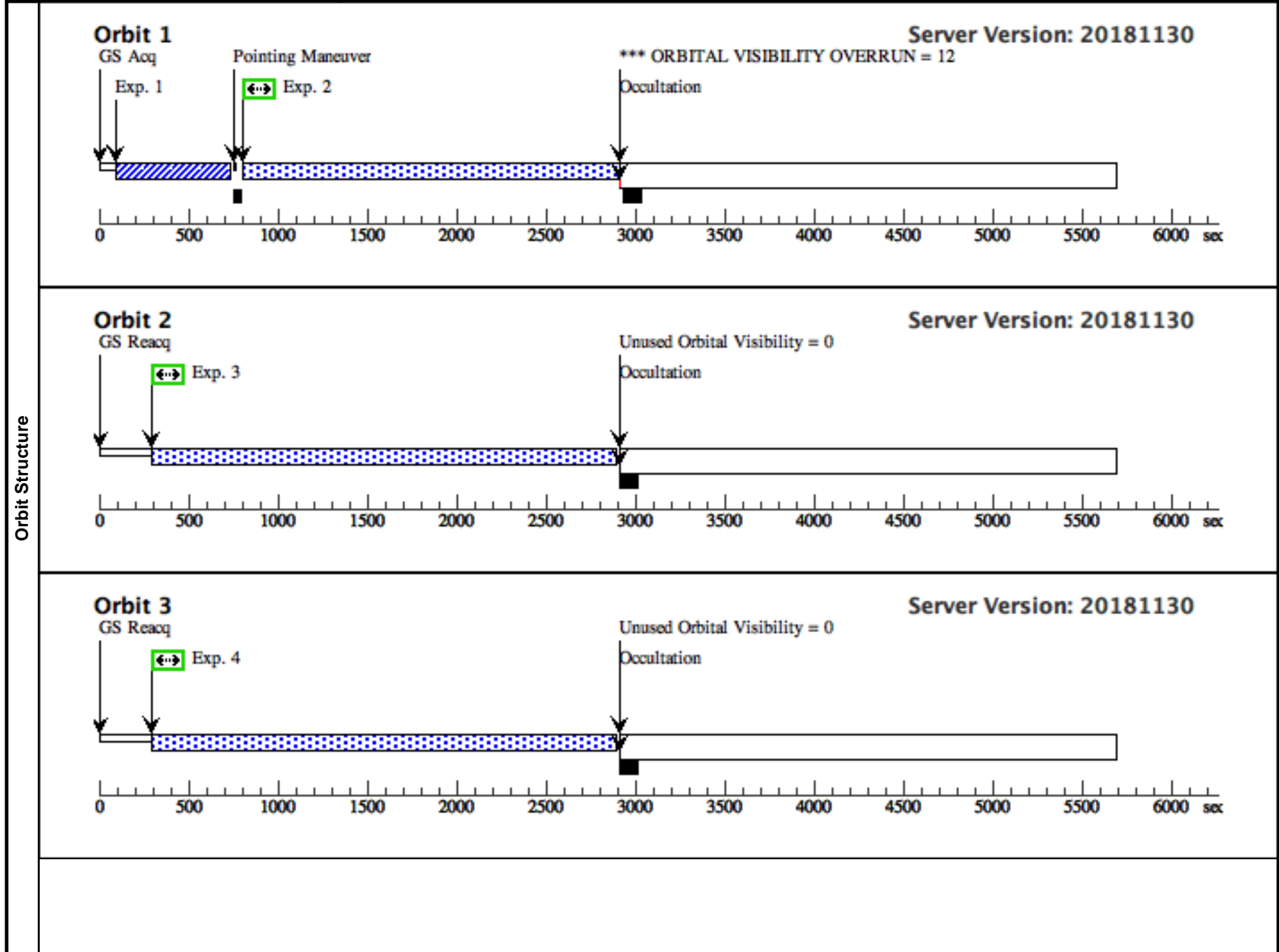


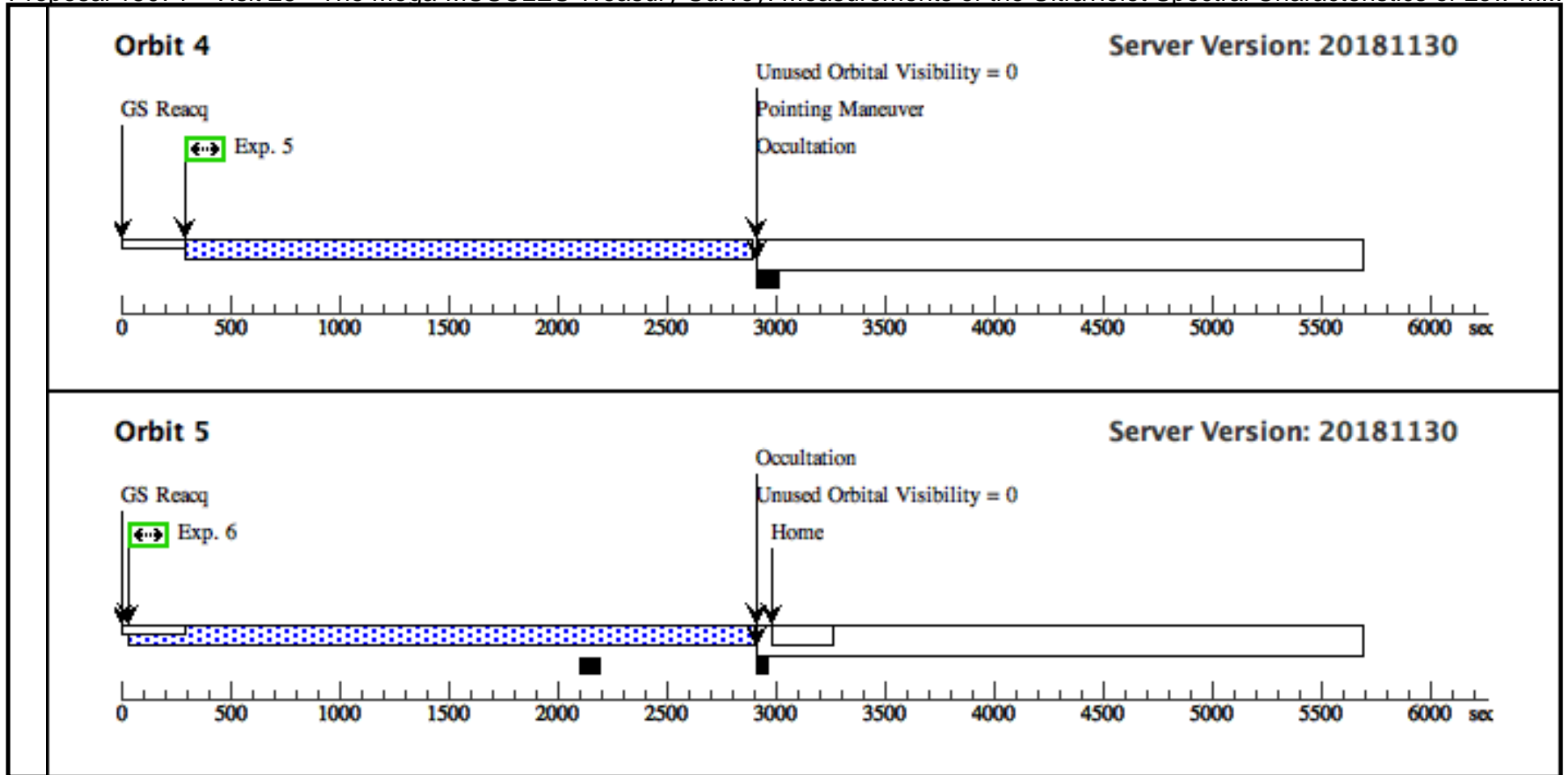


Proposal 15071 - Visit 25 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:45 GMT 2019

Visit	<p>Proposal 15071, Visit 25, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: PCS MODE FINE; SCHED 100%</p> <p><i>Comments: ETC estimates use 3300 K blackbody (NUV and optical only) plus distance-scaled emission line fluxes from MUSCLES GJ436 observations.</i></p> <p><i>01/25/18: BOP clearance requires move to MIRRORB in target acq. Removed ACQ/SEARCH (image coordinates and proper motions known well enough to remove) and updated ACQ/IMAGE with MIRRORB and new SNR requirement of 20 instead of 40.</i></p>									
	<p>(Visit 25) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(Visit 25) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	L-980-5 Alt Name1: LHS2899	RA: 14 21 15.1200 (215.3130000d) Dec: -01 07 19.70 (-1.12214d) Equinox: J2000	Proper Motion RA: 173.05 mas/yr Proper Motion Dec: -619.8 mas/yr Parallax: 0.07466" Epoch of Position: 2000	V=12.95	Reference Frame: ICRS				
<p><i>Comments: Coordinates, proper motions, and parallax from Riedel et al. 2010, AJ, 140, 897. Uncertainty in coordinates based on difference in proper motion corrections from Riedel et al. and Winters et al. 2015, ApJ, 149, 5.</i></p> <p>Category=STAR Description=[M V-IV] Extended=NO</p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.104 6617)	(9) L-980-5	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				173 Secs (173 Secs) [==>]	[1]
	2	(COS.sp.101 0287)	(9) L-980-5	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=1; BUFFER-TIME=20 00.0			1947 Secs (1886 Secs) [==>1886.0 Secs]	[1]
	<p><i>Comments: ETC is run for CIV 1548 emission. ETC for fainter doublet line (1550) is COS.sp.1006854.</i></p> <p><i>Buffer time set to around the exposure time as per IHB recommendations for targets that could be brighter than ETC value.</i></p>									
	3	(COS.sp.131 5633)	(9) L-980-5	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=2; BUFFER-TIME=28 00.0			2692 Secs (2552 Secs) [==>2552.0 Secs]	[2]
	4	(COS.sp.131 5633)	(9) L-980-5	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=28 00.0			2692 Secs (2552 Secs) [==>2552.0 Secs]	[3]
	5	(COS.sp.131 5633)	(9) L-980-5	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=4; BUFFER-TIME=28 00.0			2692 Secs (2552 Secs) [==>2552.0 Secs]	[4]
6	(COS.sp.101 0282)	(9) L-980-5	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=3; BUFFER-TIME=18 00.0			2727 Secs (2587 Secs) [==>2587.0 Secs]	[5]	

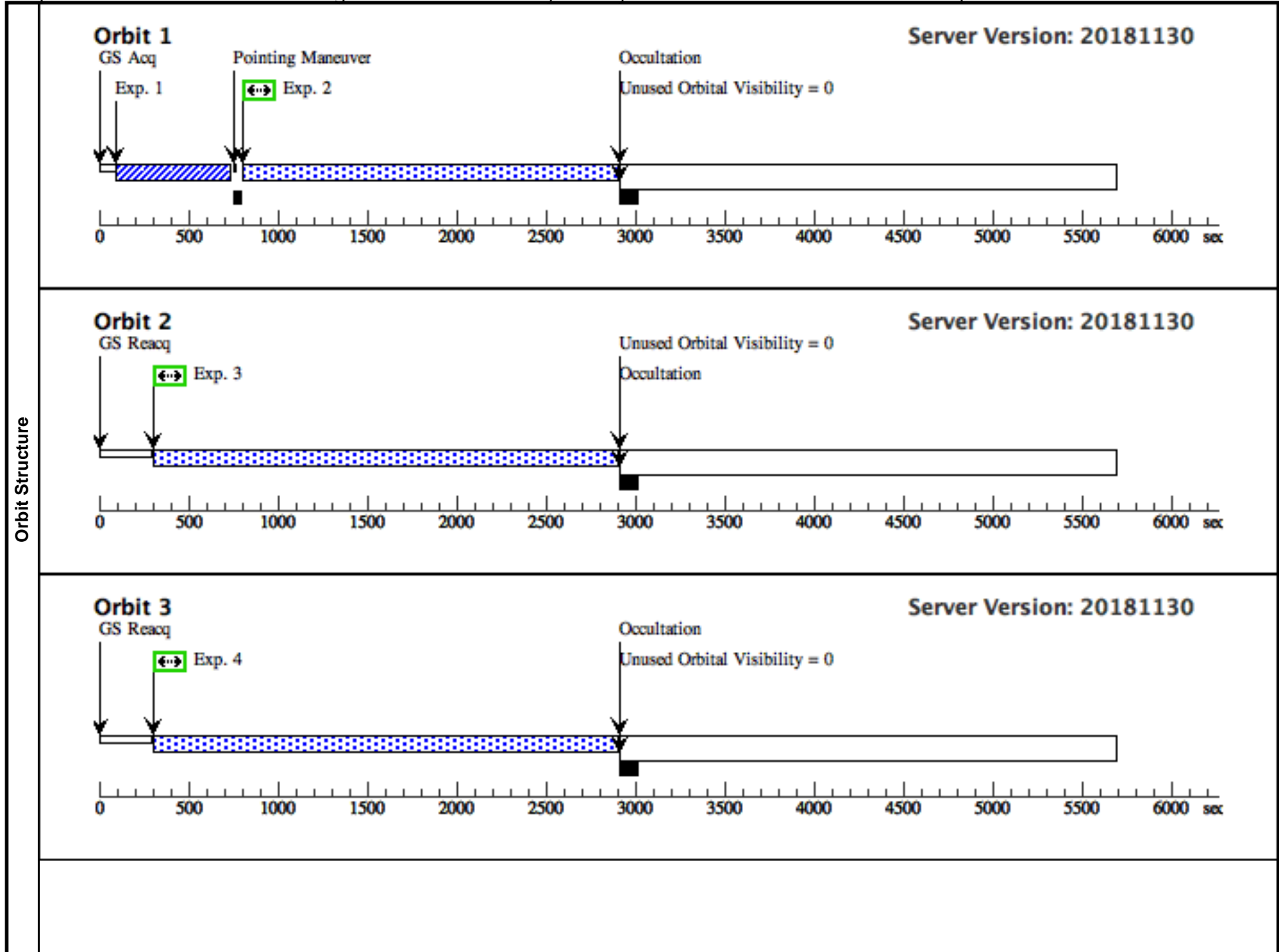


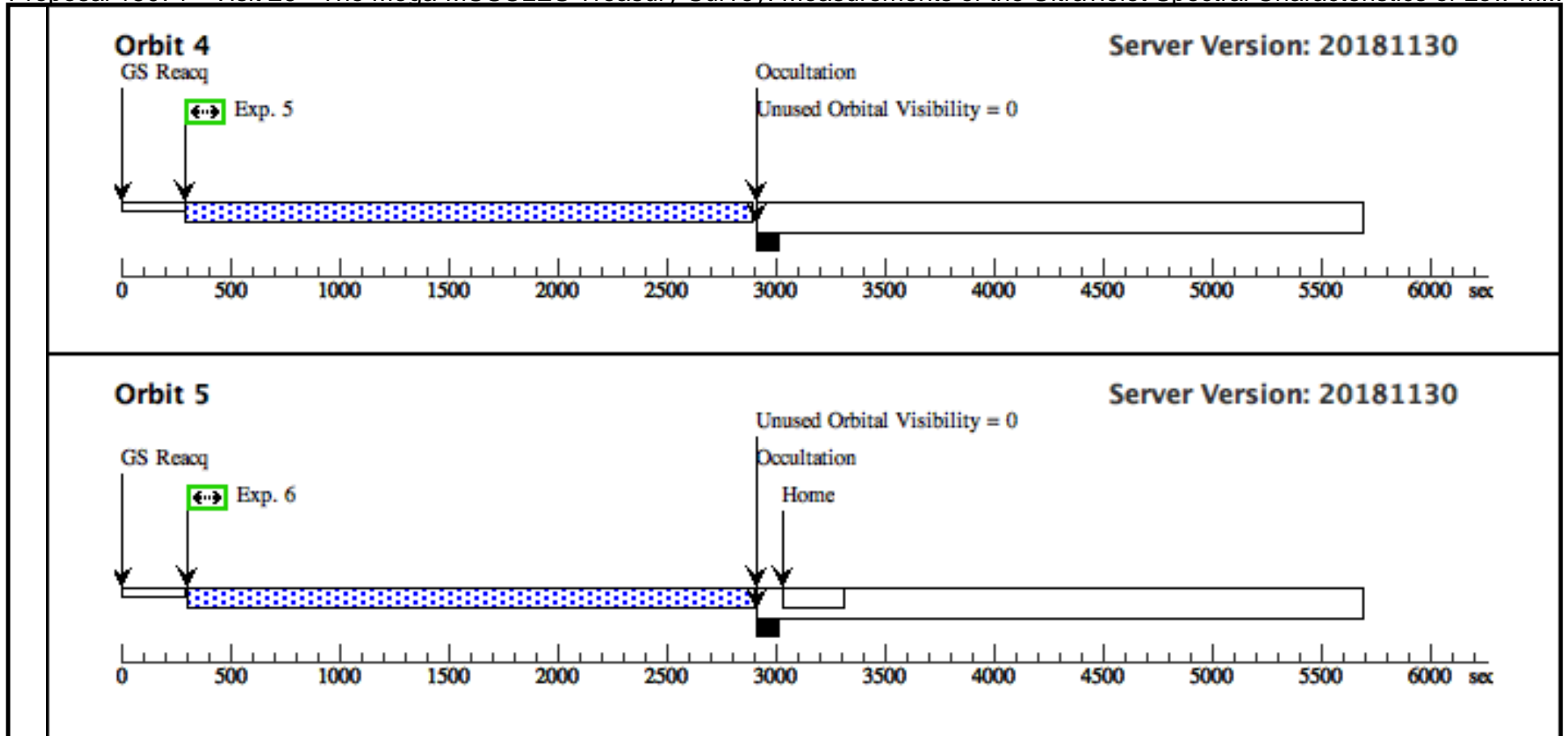


Proposal 15071 - Visit 26 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:45 GMT 2019

Visit	<p>Proposal 15071, Visit 26, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; AFTER 25 BY 0 D TO 4 D</p> <p><i>Comments: ETC estimates use 3300 K blackbody (NUV and optical only) plus distance-scaled emission line fluxes from MUSCLES GJ436 observations.</i></p> <p><i>01/25/18: BOP clearance requires move to MIRRORB in target acq. Removed ACQ/SEARCH (image coordinates and proper motions known well enough to remove) and updated ACQ/IMAGE with MIRRORB and new SNR requirement of 20 instead of 40.</i></p>									
	<p>(Visit 26) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p>									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	L-980-5 Alt Name1: LHS2899	RA: 14 21 15.1200 (215.3130000d) Dec: -01 07 19.70 (-1.12214d) Equinox: J2000	Proper Motion RA: 173.05 mas/yr Proper Motion Dec: -619.8 mas/yr Parallax: 0.07466" Epoch of Position: 2000	V=12.95	Reference Frame: ICRS				
<p><i>Comments: Coordinates, proper motions, and parallax from Riedel et al. 2010, AJ, 140, 897. Uncertainty in coordinates based on difference in proper motion corrections from Riedel et al. and Winters et al. 2015, ApJ, 149, 5.</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[M V-IV]</i></p> <p><i>Extended=NO</i></p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.104 6617)	(9) L-980-5	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				173 Secs (173 Secs)	
									[==>]	[1]
	2	(COS.sp.101 0290)	(9) L-980-5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=20 00.0;	FP-POS=3		1988 Secs (1927 Secs)	
									[==>1927.0 Secs]	[1]
	3	(COS.sp.101 0290)	(9) L-980-5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=28 00.0;	FP-POS=3		2692 Secs (2552 Secs)	
									[==>2552.0 Secs]	[2]
	4	(COS.sp.101 0290)	(9) L-980-5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=28 00.0;	FP-POS=3		2692 Secs (2552 Secs)	
								[==>2552.0 Secs]	[3]	
5	(COS.sp.101 0290)	(9) L-980-5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=28 00.0;	FP-POS=4		2692 Secs (2552 Secs)		
								[==>2552.0 Secs]	[4]	
6	(COS.sp.101 0290)	(9) L-980-5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=28 00.0;	FP-POS=4		2692 Secs (2552 Secs)		
								[==>2552.0 Secs]	[5]	

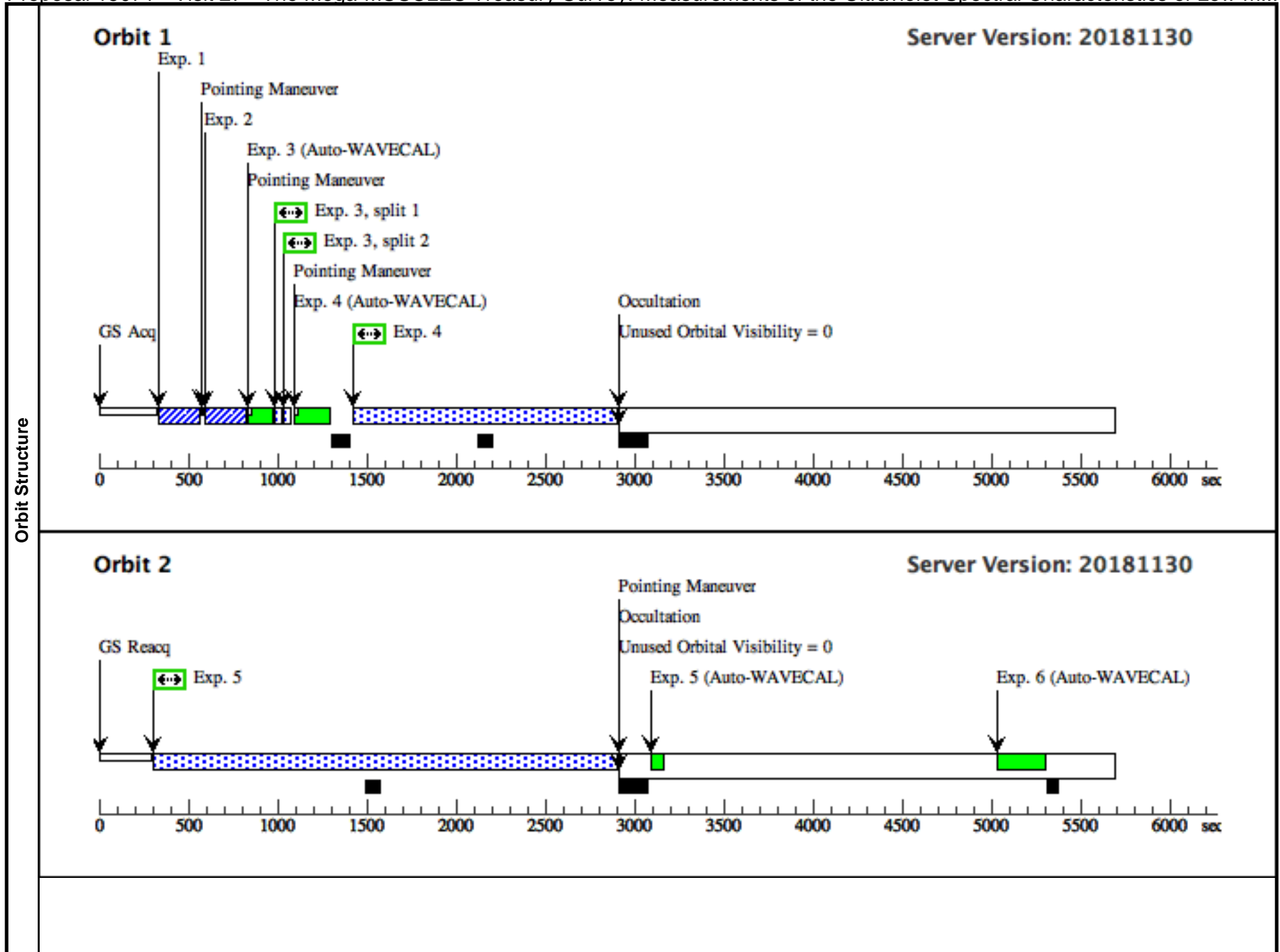


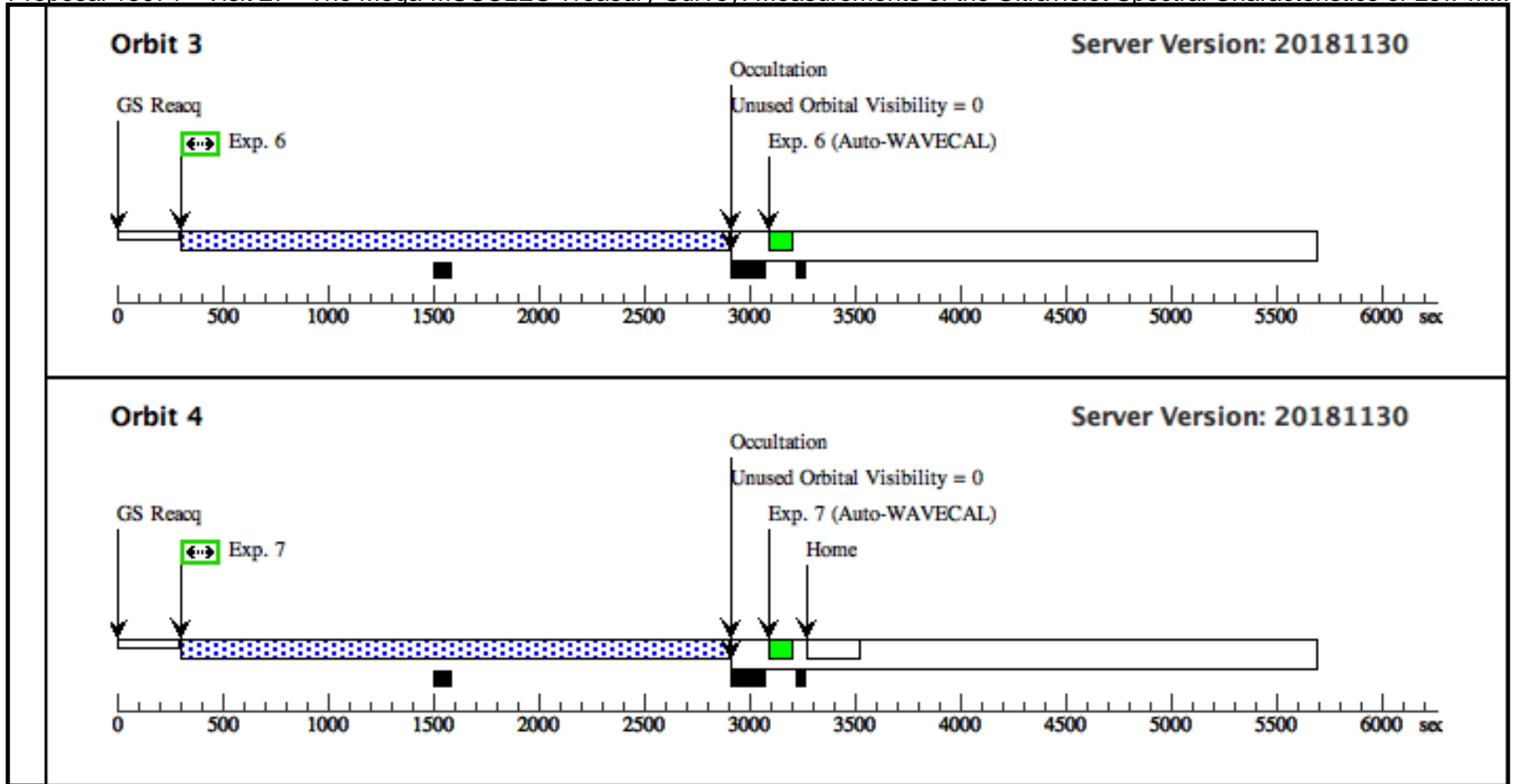


Proposal 15071 - Visit 27 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:45 GMT 2019

Visit	Proposal 15071, Visit 27, completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100%; AFTER 25 BY 0 D TO 4 D Comments: ETC estimates use 3300 K blackbody (NUV and optical only) plus distance-scaled emission line fluxes from MUSCLES GJ436 observations.																					
	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>L-980-5 Alt Name1: LHS2899</td> <td>RA: 14 21 15.1200 (215.3130000d) Dec: -01 07 19.70 (-1.12214d) Equinox: J2000</td> <td>Proper Motion RA: 173.05 mas/yr Proper Motion Dec: -619.8 mas/yr Parallax: 0.07466" Epoch of Position: 2000</td> <td>V=12.95</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> Comments: Coordinates, proper motions, and parallax from Riedel et al. 2010, AJ, 140, 897. Uncertainty in coordinates based on difference in proper motion corrections from Riedel et al. and Winters et al. 2015, ApJ, 149, 5. Category=STAR Description=[M V-IV] Extended=NO										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(9)	L-980-5 Alt Name1: LHS2899	RA: 14 21 15.1200 (215.3130000d) Dec: -01 07 19.70 (-1.12214d) Equinox: J2000	Proper Motion RA: 173.05 mas/yr Proper Motion Dec: -619.8 mas/yr Parallax: 0.07466" Epoch of Position: 2000	V=12.95
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																
(9)	L-980-5 Alt Name1: LHS2899	RA: 14 21 15.1200 (215.3130000d) Dec: -01 07 19.70 (-1.12214d) Equinox: J2000	Proper Motion RA: 173.05 mas/yr Proper Motion Dec: -619.8 mas/yr Parallax: 0.07466" Epoch of Position: 2000	V=12.95	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	(STIS.ta.101 0204)	(9) L-980-5	STIS/CCD, ACQ, F28X50LP	MIRROR				0.8 Secs (0.8 Secs) [==>]	[1]												
	2	(STIS.ta.101 0209)	(9) L-980-5	STIS/CCD, ACQ/PEAK, 52X0.1	MIRROR				0.8 Secs (0.8 Secs) [==>]	[1]												
	3	(STIS.sp.10 10213)	(9) L-980-5	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A				53 Secs (13 Secs) [==>6.5 Secs (Split 1)] [==>6.5 Secs (Split 2)]	[1]												
	4	(STIS.sp.10 10281)	(9) L-980-5	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=70 0.0			1484. Secs (1464 Secs) [==>1464.0 Secs]	[1]												
	5	(STIS.sp.10 10281)	(9) L-980-5	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=12 00.0			2712 Secs (2588 Secs) [==>2588.0 Secs]	[2]												
	6	(STIS.sp.10 10275)	(9) L-980-5	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A	BUFFER-TIME=12 00.0			2711 Secs (2586 Secs) [==>2586.0 Secs]	[3]												
	7	(STIS.sp.10 10275)	(9) L-980-5	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A	BUFFER-TIME=12 00.0			2726 Secs (2586 Secs) [==>2586.0 Secs]	[4]												

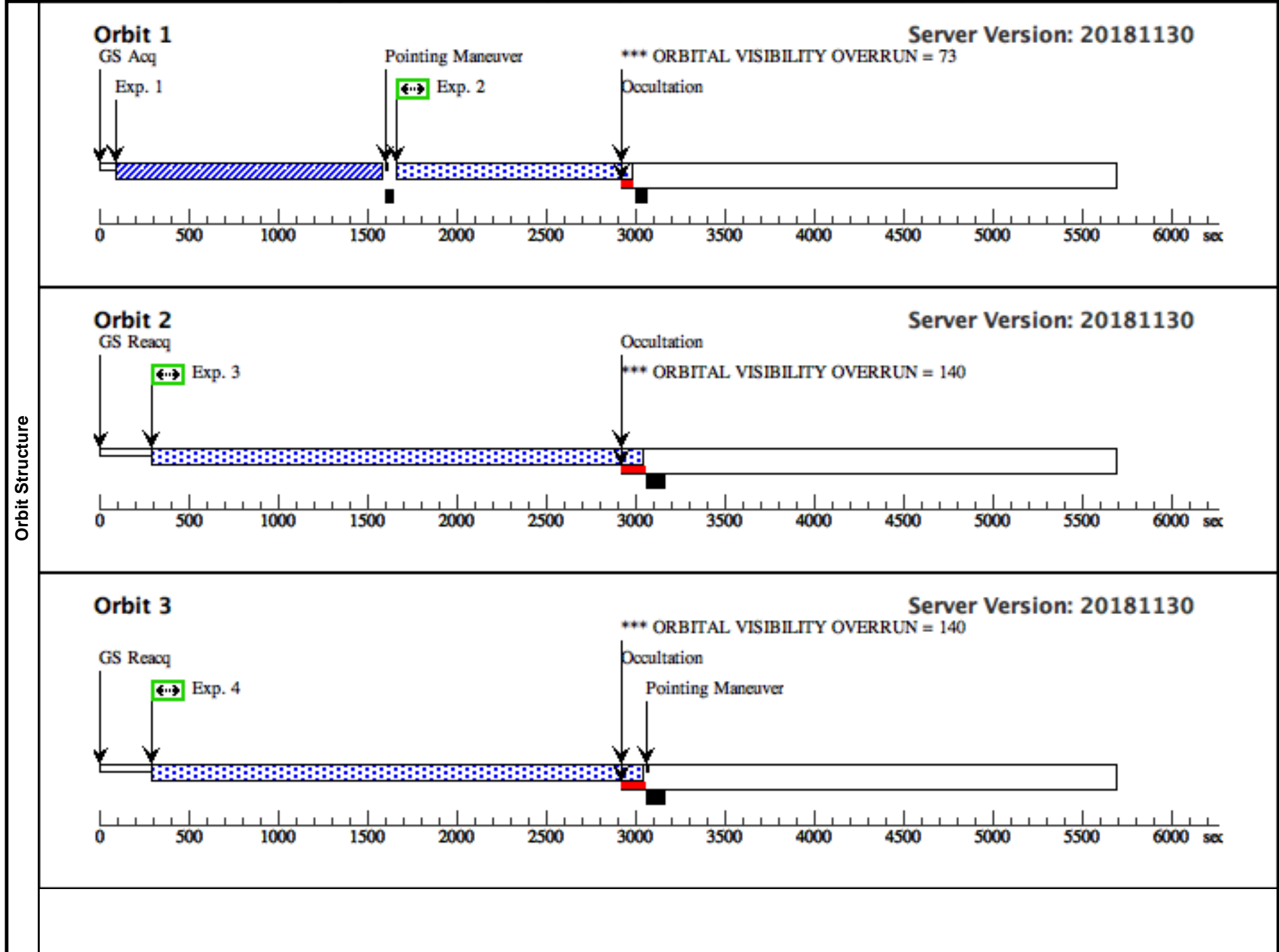


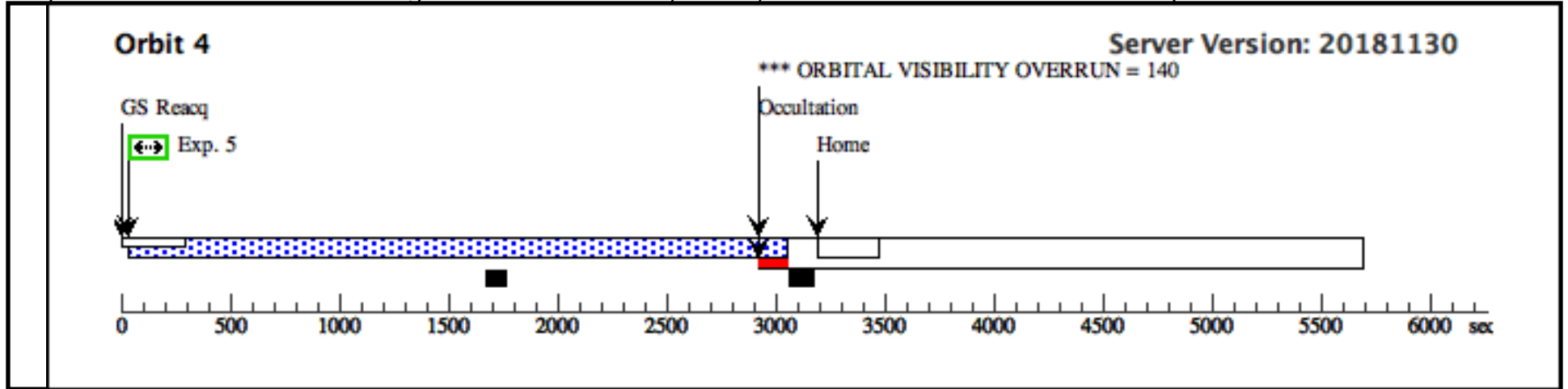


Proposal 15071 - Visit 28 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:45 GMT 2019

Visit	Proposal 15071, Visit 28, scheduling Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: PCS MODE FINE; SCHED 100%; GROUP 28,29 WITHIN 1D <i>Comments: ETC calculations use a 3050 K blackbody (NUV/optical only) scaled to V or B magnitude plus distance-scaled emission line fluxes from MUSCLES GJ1214 observations.</i> 01/25/18: Moved target acq to MIRRORB for BOP and used new recommended SNR of 20.																																																																														
	Diagnosics (Visit 28) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (Visit 28) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 28) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 28) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 28) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																														
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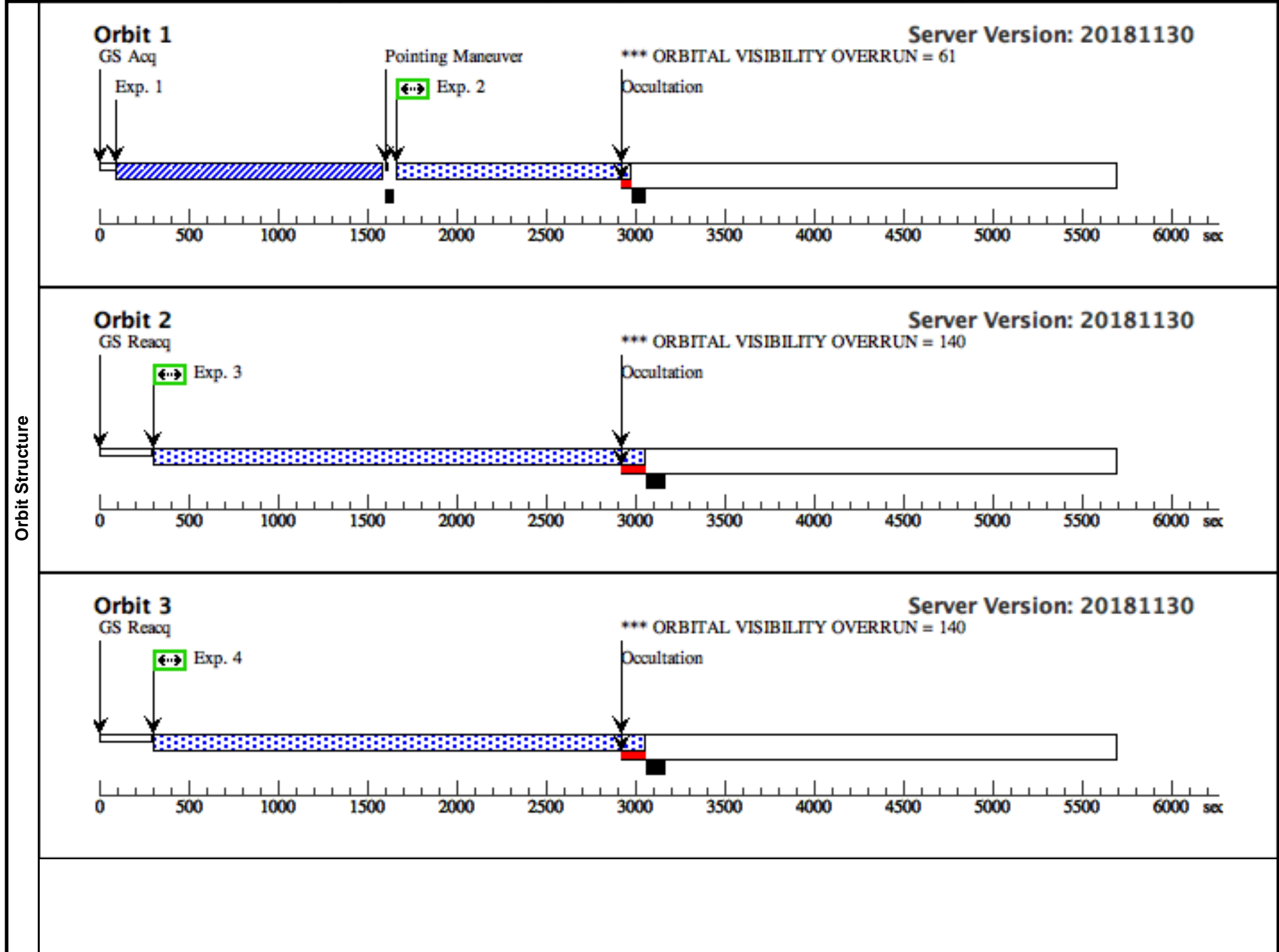


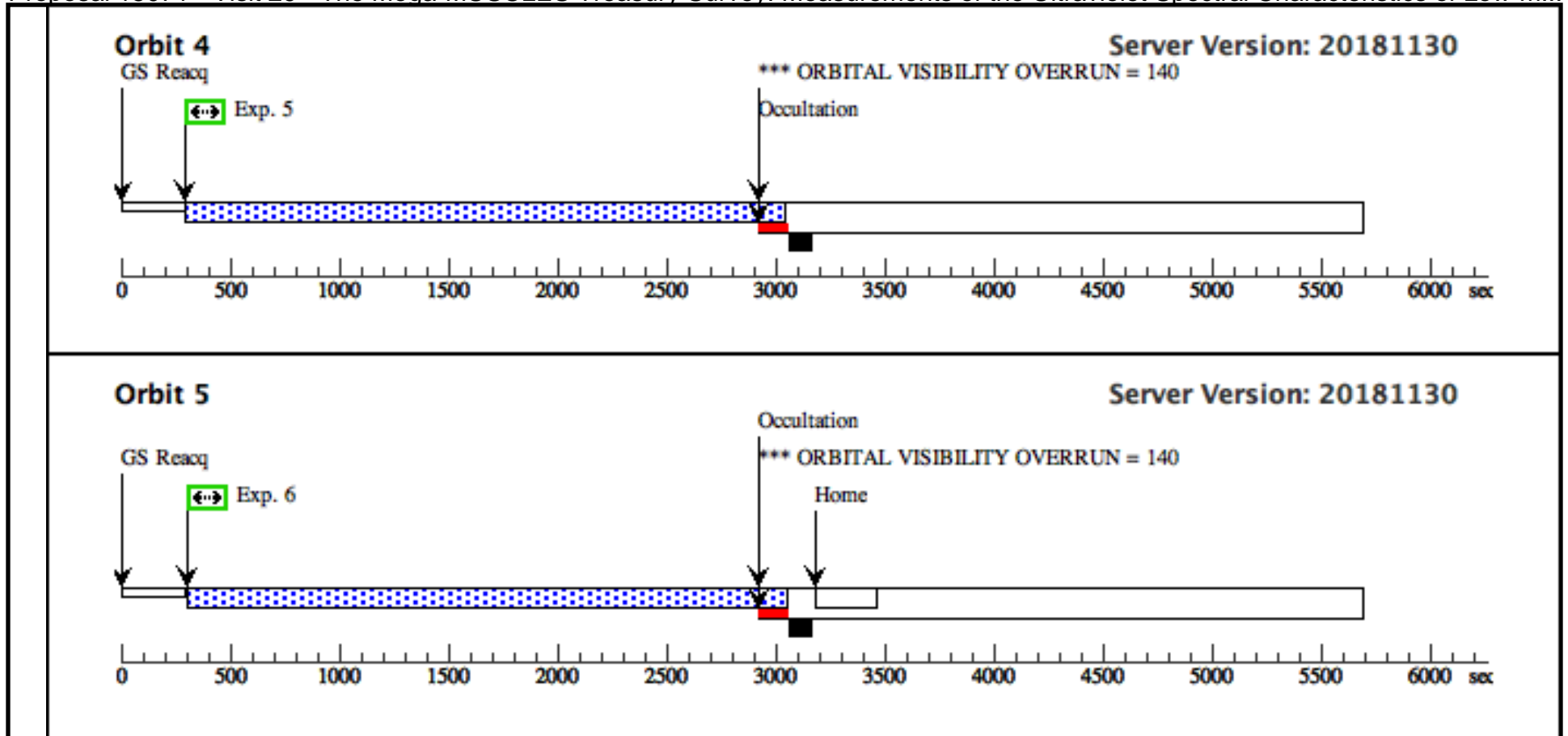


Proposal 15071 - Visit 29 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:45 GMT 2019

Visit	Proposal 15071, Visit 29, scheduling Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100% <i>Comments: ETC calculations use a 3050 K blackbody (NUV/optical only) scaled to V or B magnitude plus distance-scaled emission line fluxes from MUSCLES GJ1214 observations.</i> 01/25/18: Moved target acq to MIRRORB for BOP and used new recommended SNR of 20.																																																																																									
	(Visit 29) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (Visit 29) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 29) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 29) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 29) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 29) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																																									
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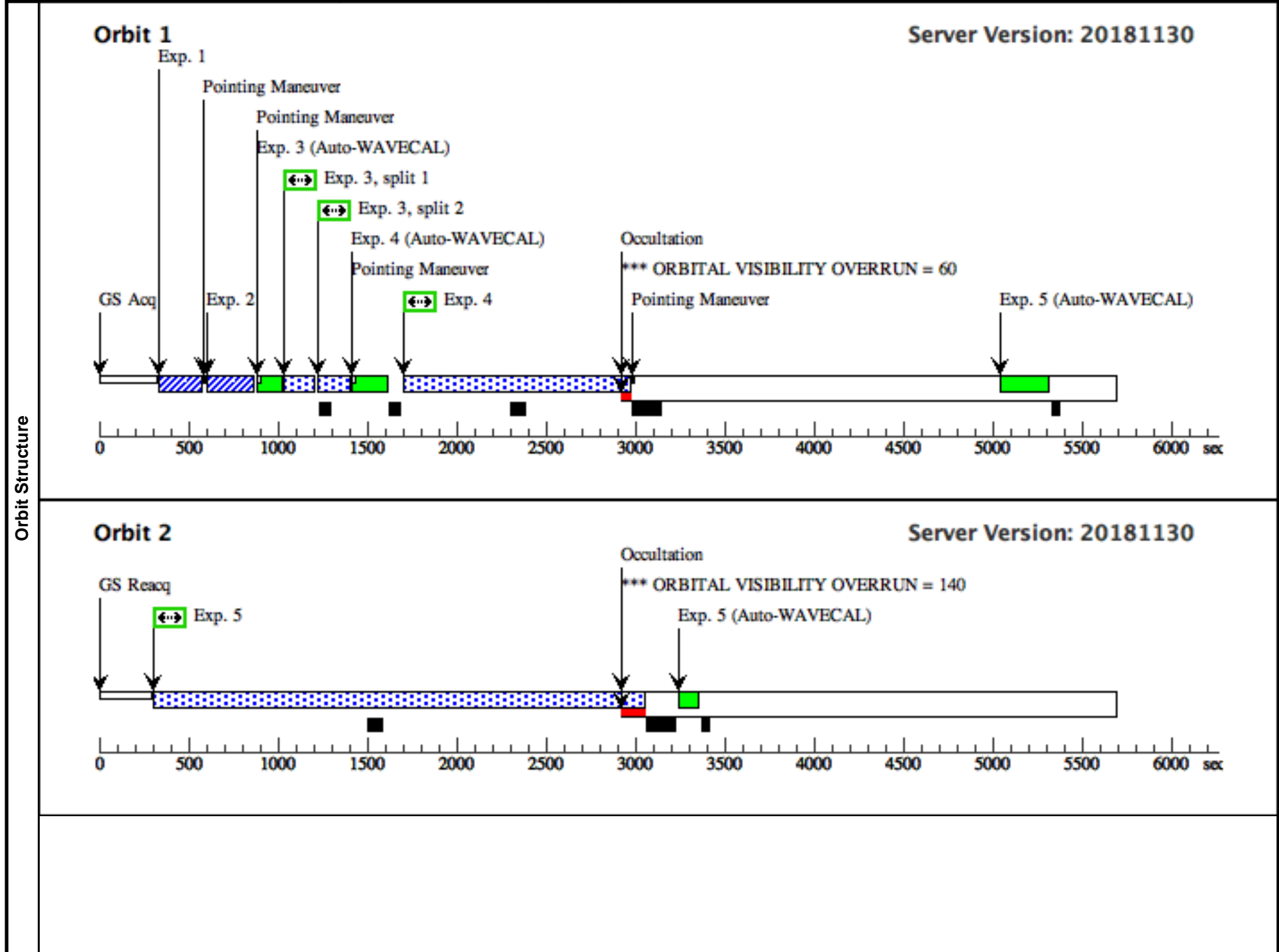


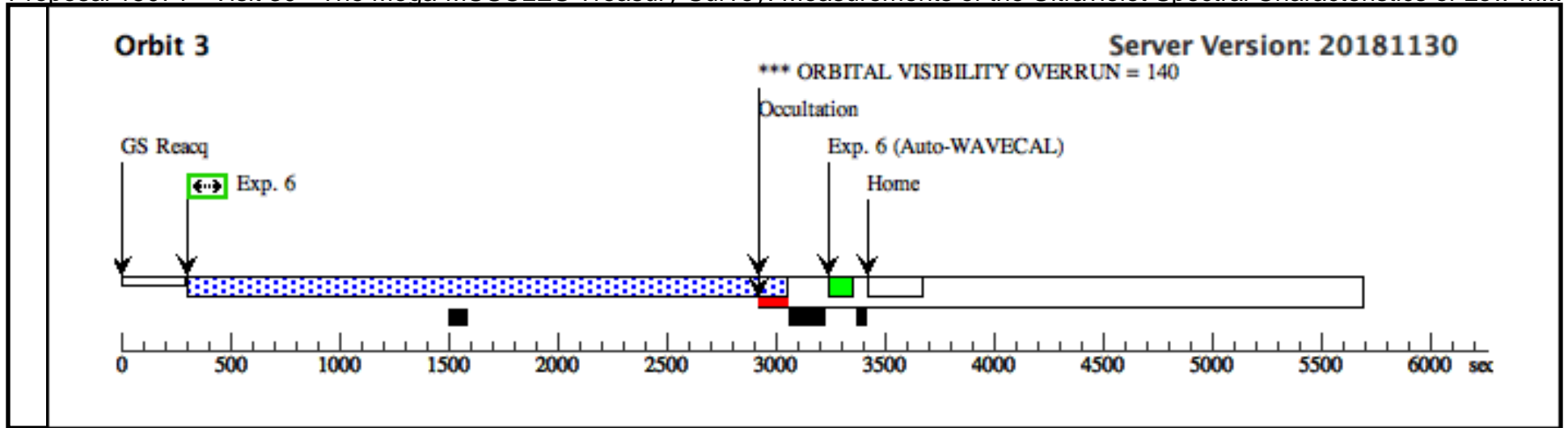


Proposal 15071 - Visit 30 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:45 GMT 2019

Visit	Proposal 15071, Visit 30, scheduling Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100%; GROUP 30,31 WITHIN 1D <i>Comments: ETC calculations use a 3050 K blackbody (NUV/optical only) scaled to V or B magnitude plus distance-scaled emission line fluxes from MUSCLES GJ1214 observations.</i>																																																																																																		
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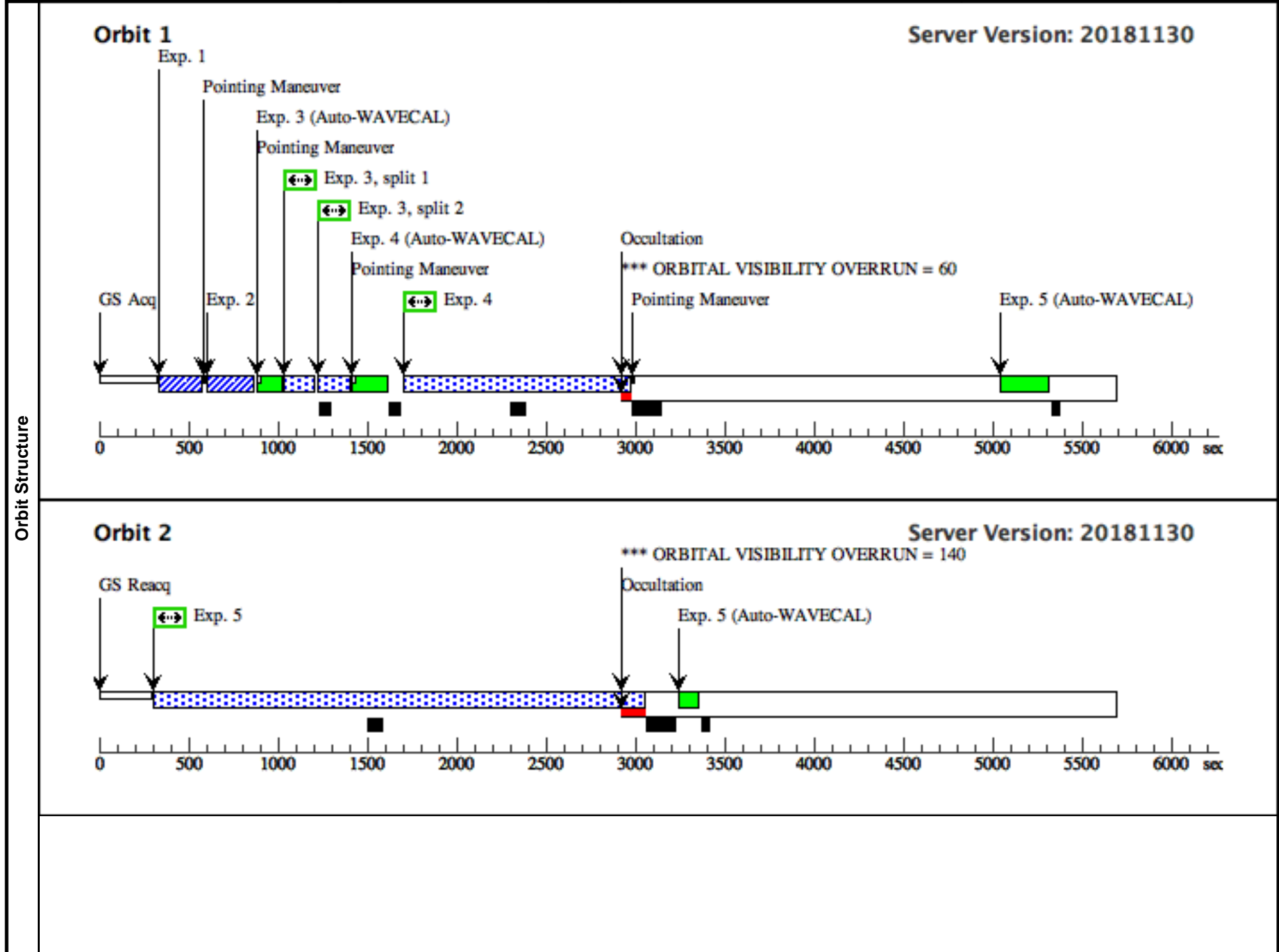


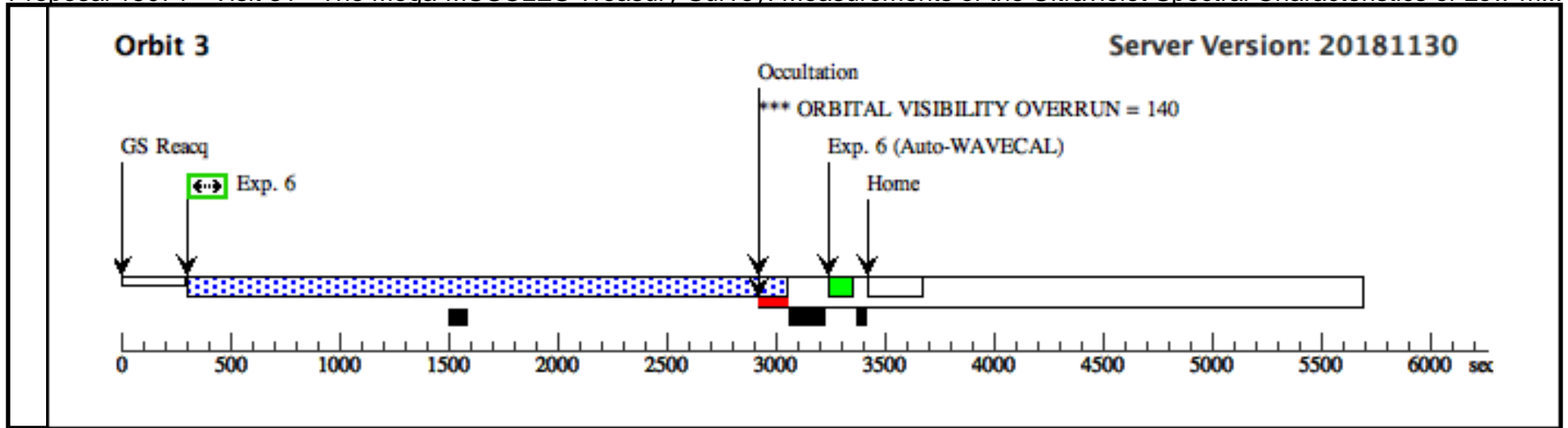


Proposal 15071 - Visit 31 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:45 GMT 2019

Visit	Proposal 15071, Visit 31, scheduling Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100%; GROUP 31,29 WITHIN 3D <i>Comments: ETC calculations use a 3050 K blackbody (NUV/optical only) scaled to V or B magnitude plus distance-scaled emission line fluxes from MUSCLES GJ1214 observations.</i>																																																																																																		
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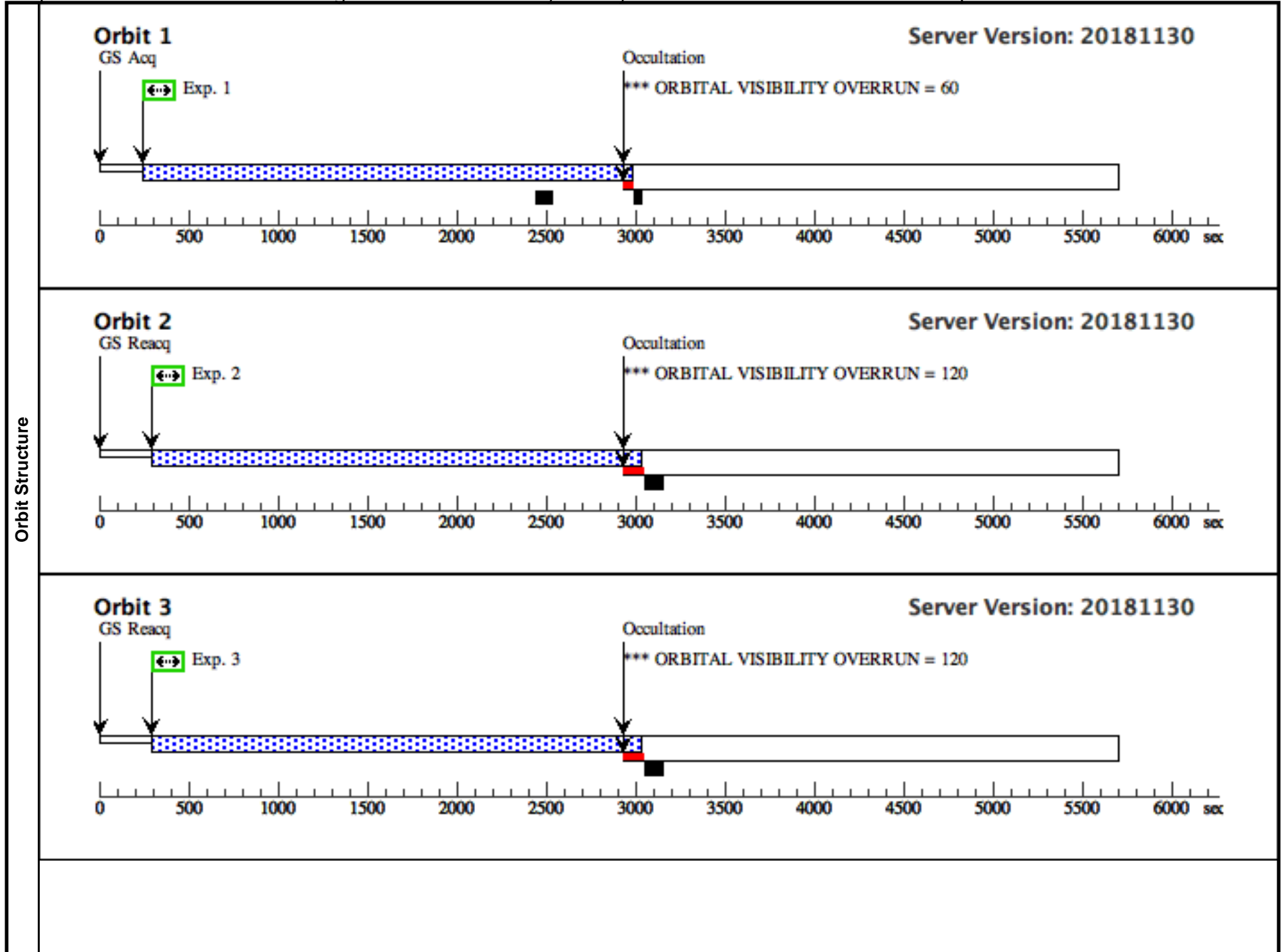


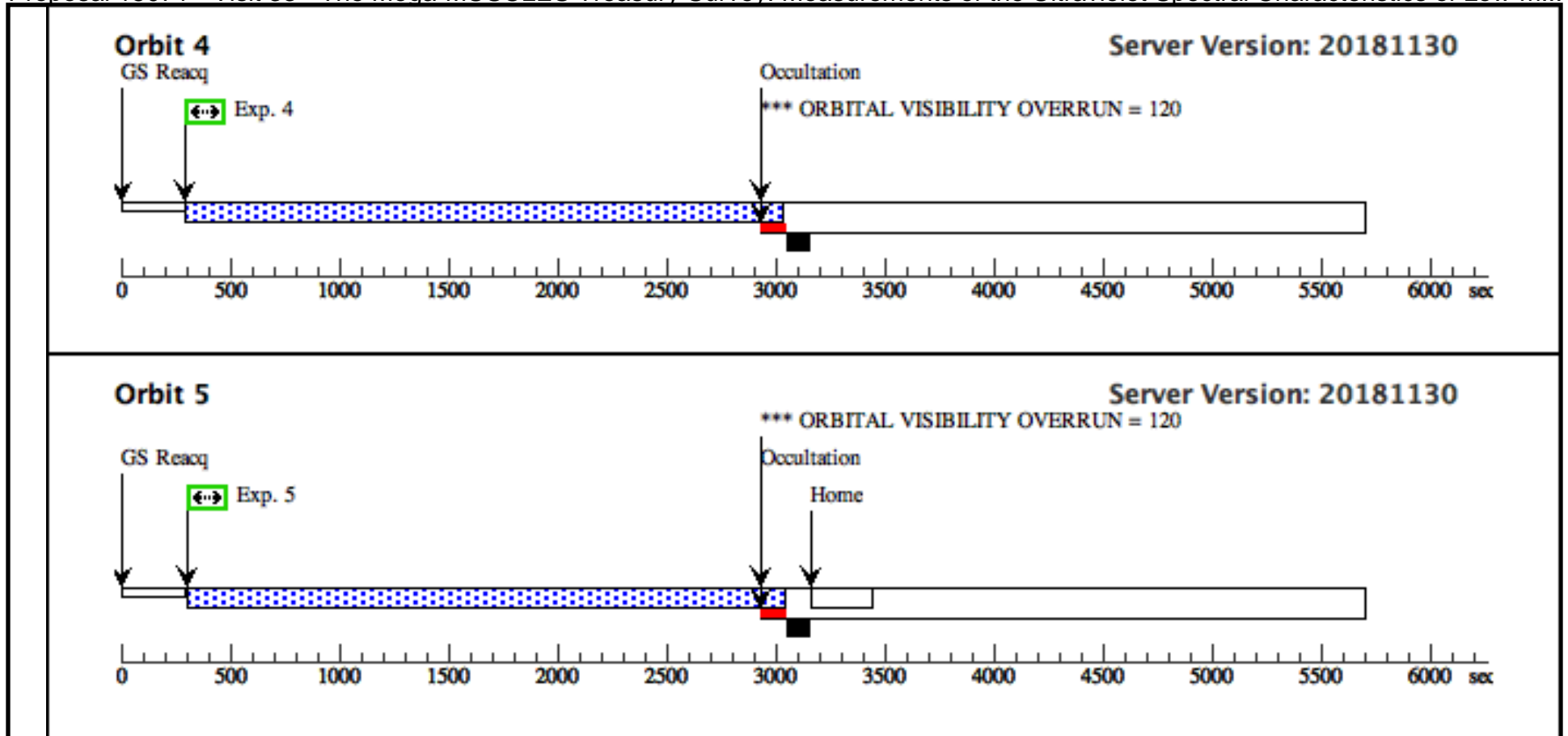


Proposal 15071 - Visit 33 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

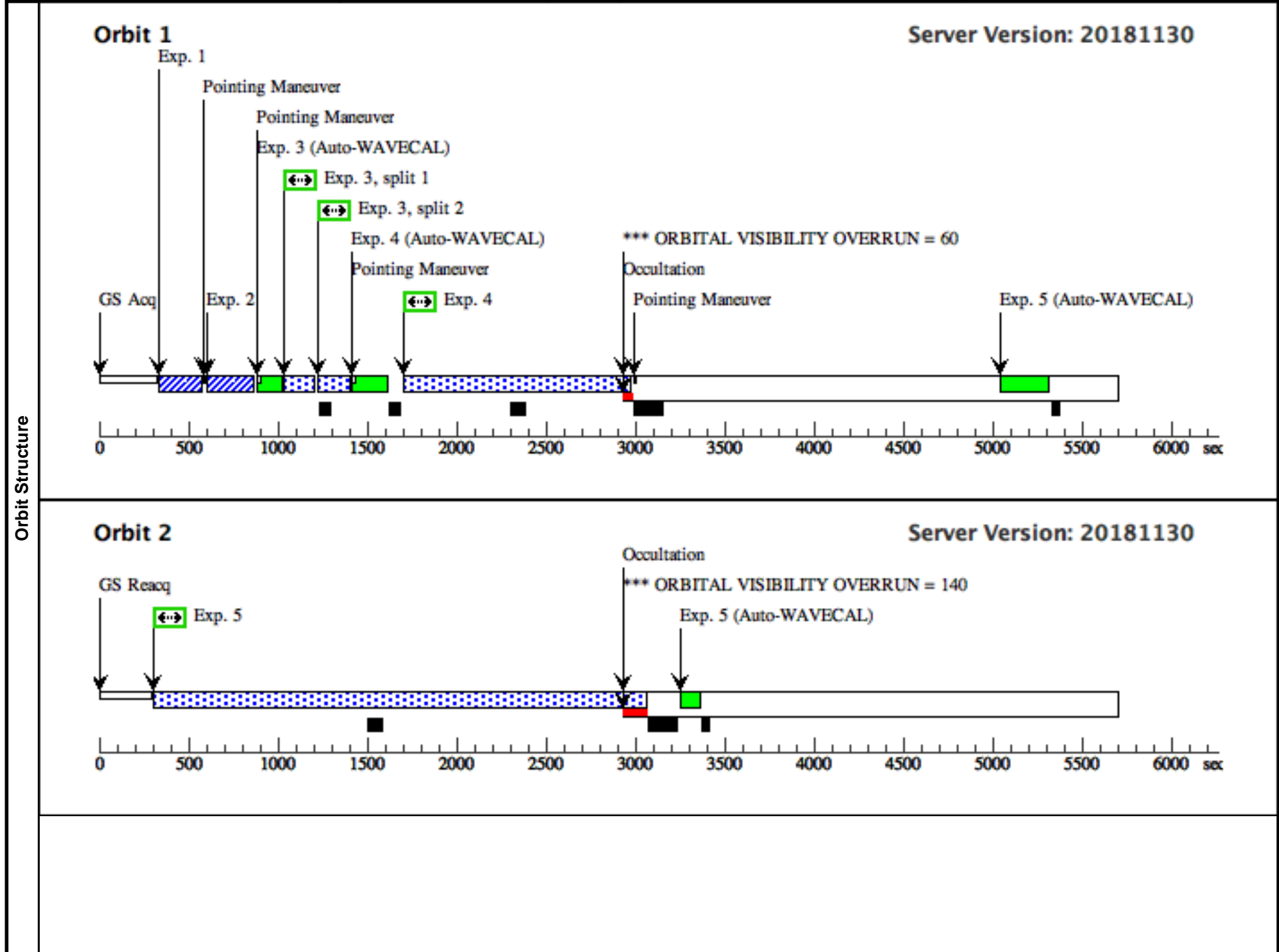
Mon May 06 20:01:45 GMT 2019

Visit	<p>Proposal 15071, Visit 33, scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV</p> <p>Special Requirements: SCHED 100%; GROUP 33,34 WITHIN 36H</p> <p><i>Comments: ETC estimates use 3050 K blackbody (NUV only) scaled to V or B magnitude plus distance-scaled emission line fluxes from MUSCLES GJ1214 template star.</i></p> <p><i>01/24/18: Changed 1291 to 1222 for G130M exposures.</i></p>																																																																					
	<p>(Visit 33) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.</p> <p>(Visit 33) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 33) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 33) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 33) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 33) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>																																																																					
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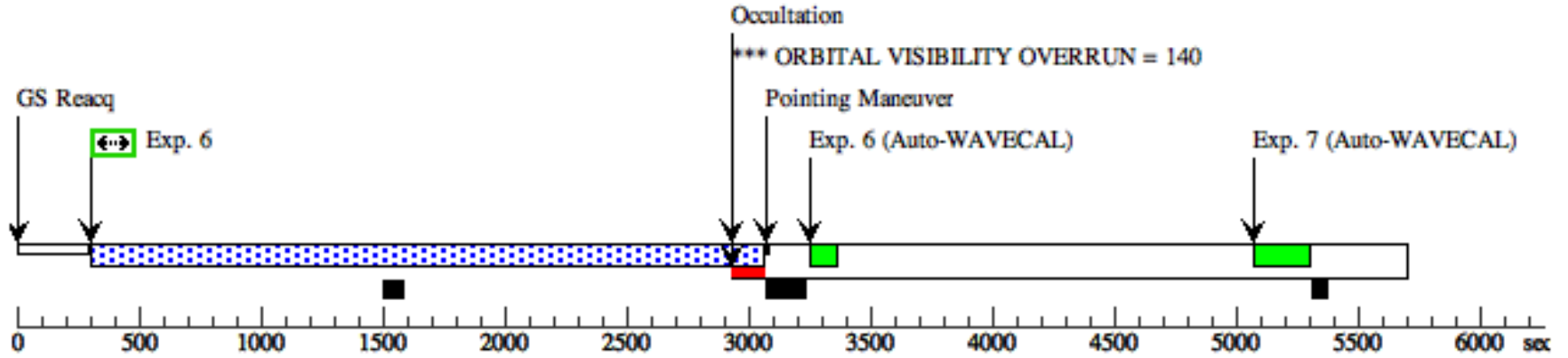


Visit	Proposal 15071, Visit 34, scheduling Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100% <i>Comments: ETC estimates use 3050 K blackbody (NUV only) scaled to V or B magnitude plus distance-scaled emission line fluxes from MUSCLES GJ1214 template star.</i> 01/24/18: Added G140L exposures to replace COS observations precluded by BOP.																																																																																																																						
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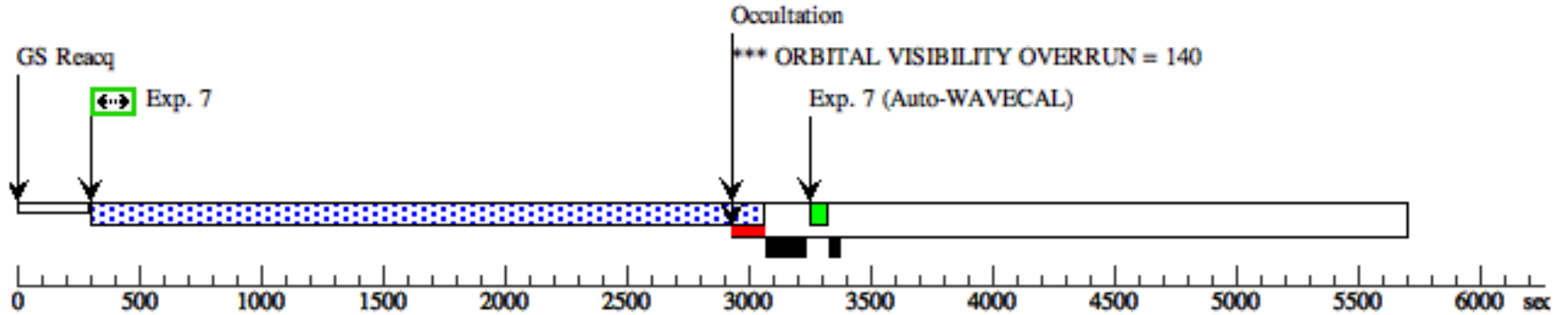
Orbit 3

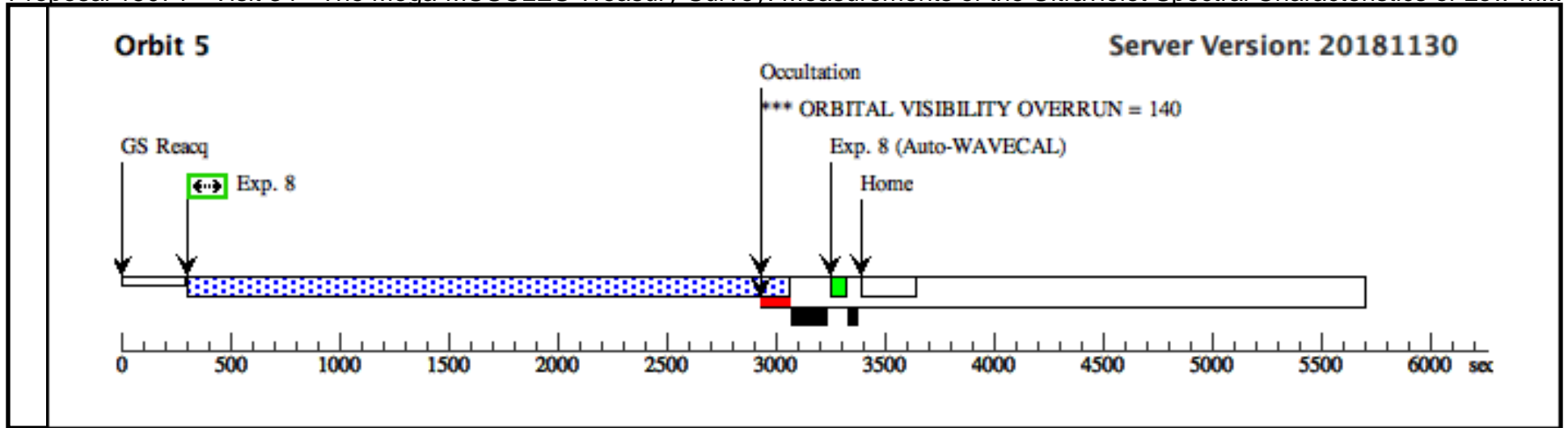
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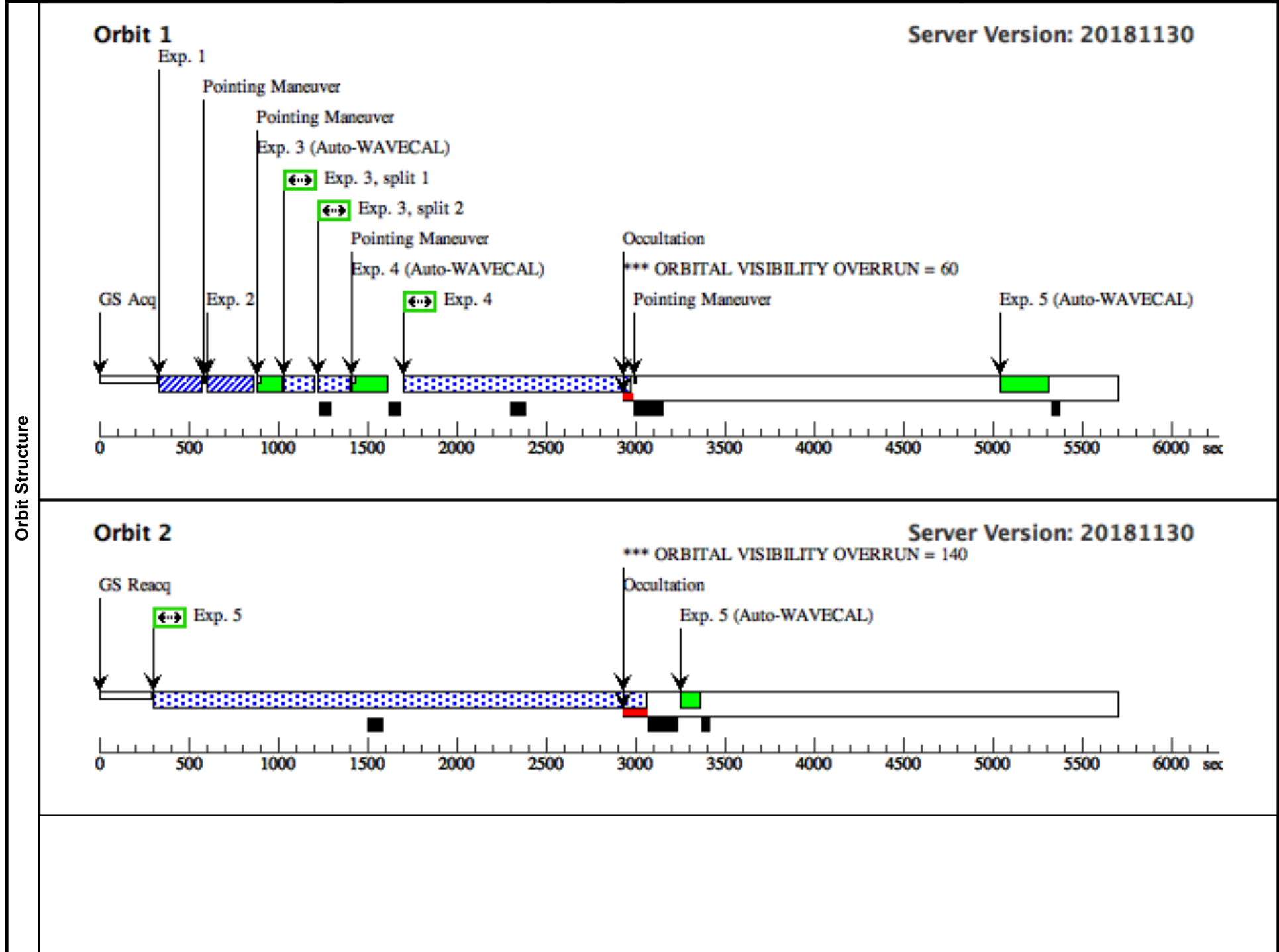
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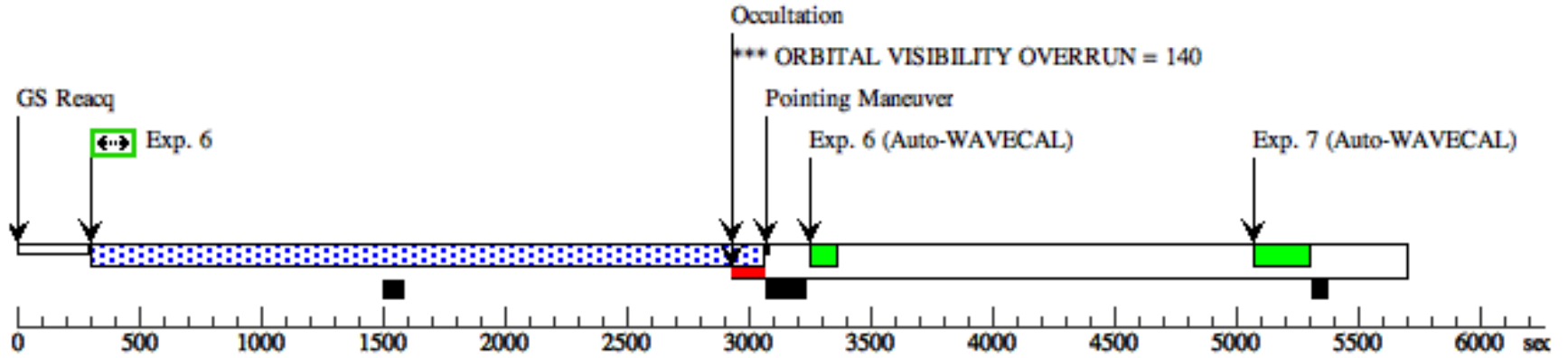


Visit	Proposal 15071, Visit 35, scheduling Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100%; GROUP 35,34 WITHIN 4D <i>Comments: ETC estimates use 3050 K blackbody (NUV only) scaled to V or B magnitude plus distance-scaled emission line fluxes from MUSCLES GJ1214 template star.</i> 01/24/18: Added G140L exposures to replace COS observations precluded by BOP.																																																																																																																						
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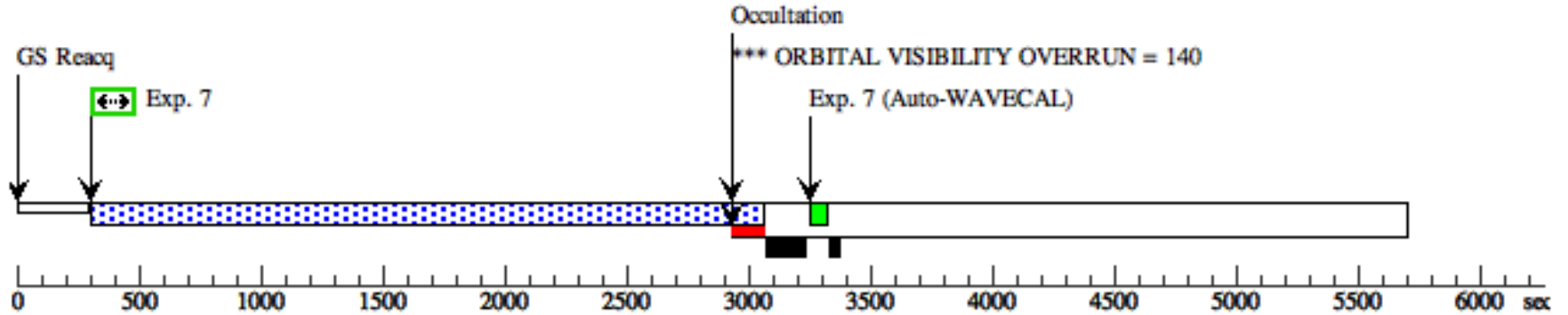
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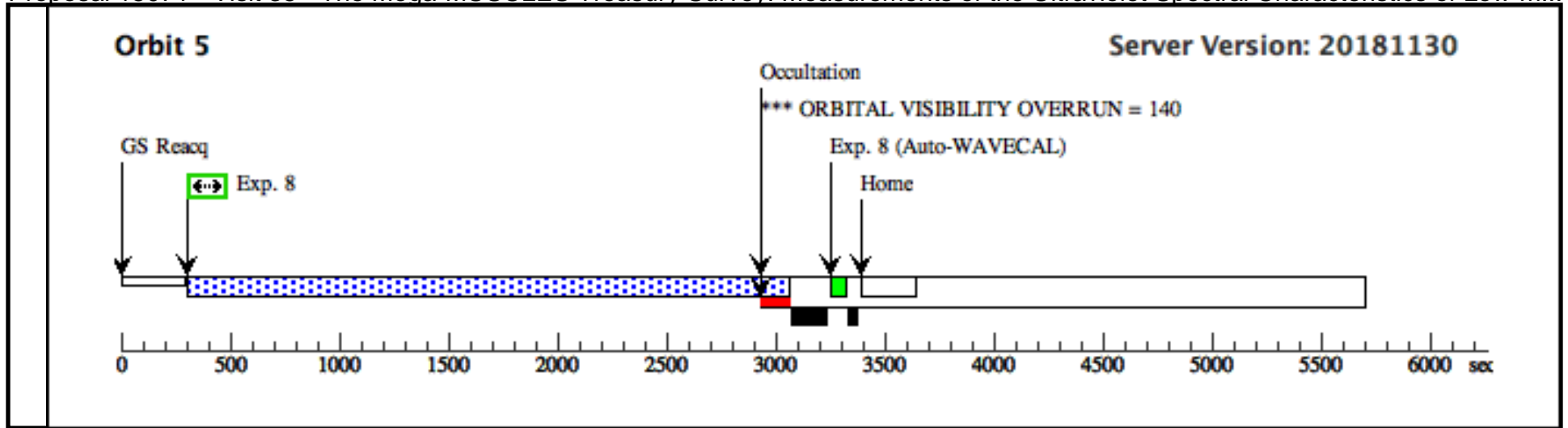
Server Version: 20181130



Orbit 4

Server Version: 20181130

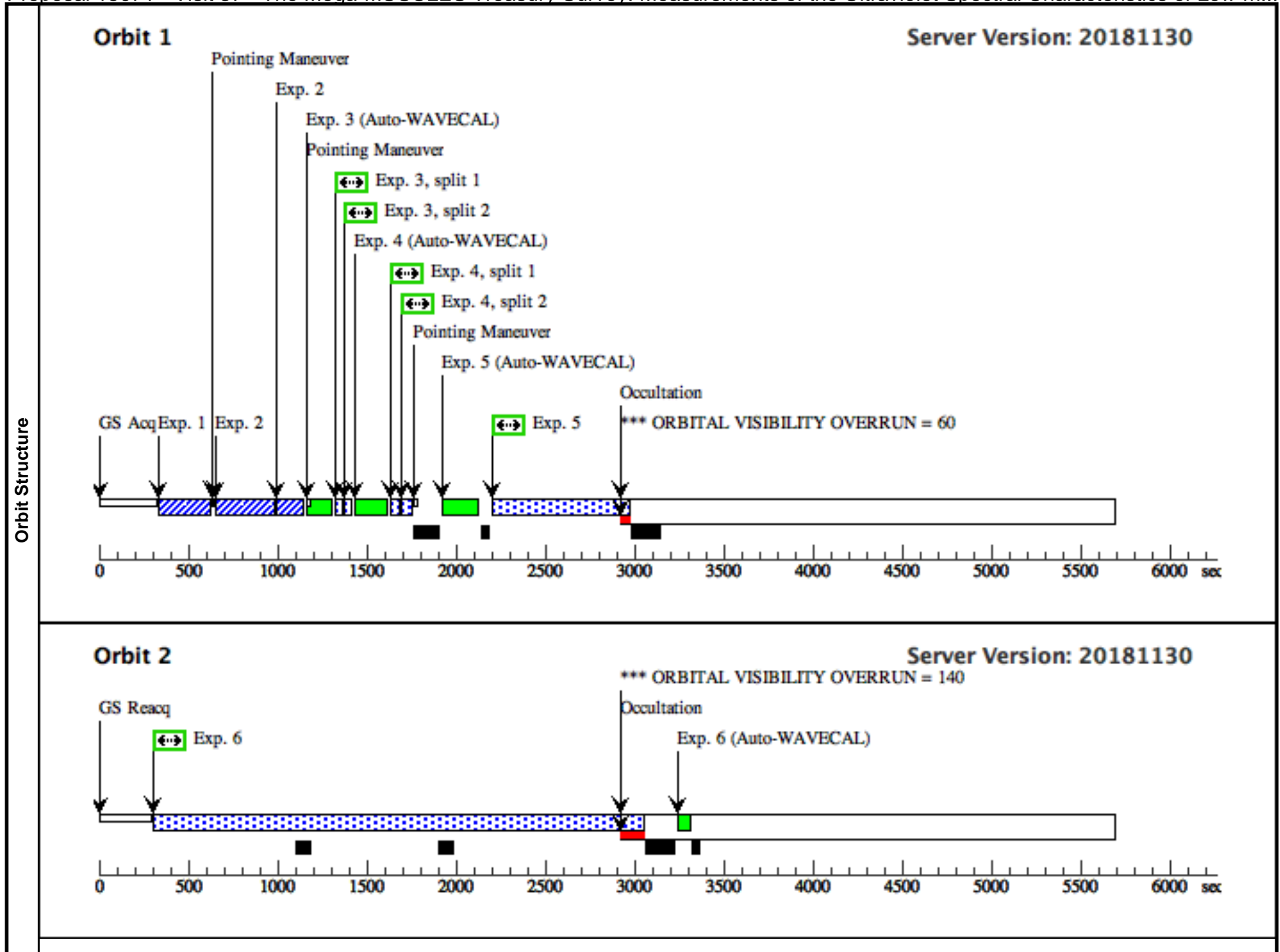


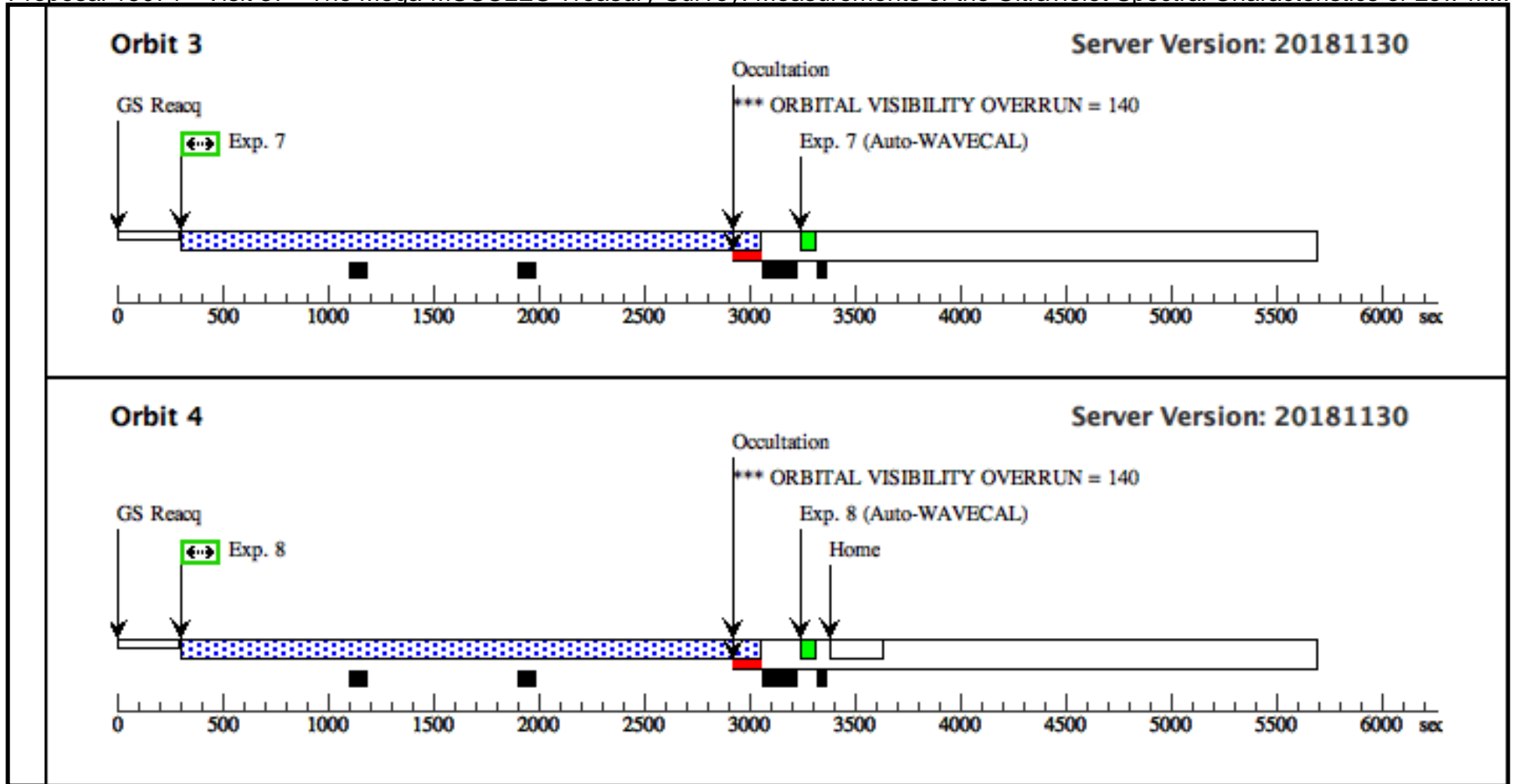


Proposal 15071 - Visit 37 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:46 GMT 2019

Visit	Proposal 15071, Visit 37, completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100% <i>Comments: 01/24/2018: COS modes removed (this visit and Visit 36, which was deleted) for BOP. Replaced by STIS E140M/G230LB/G430LB.</i>																																																																																																		
	Diagnosics (Visit 37) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 37) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 37) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 37) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																																																		
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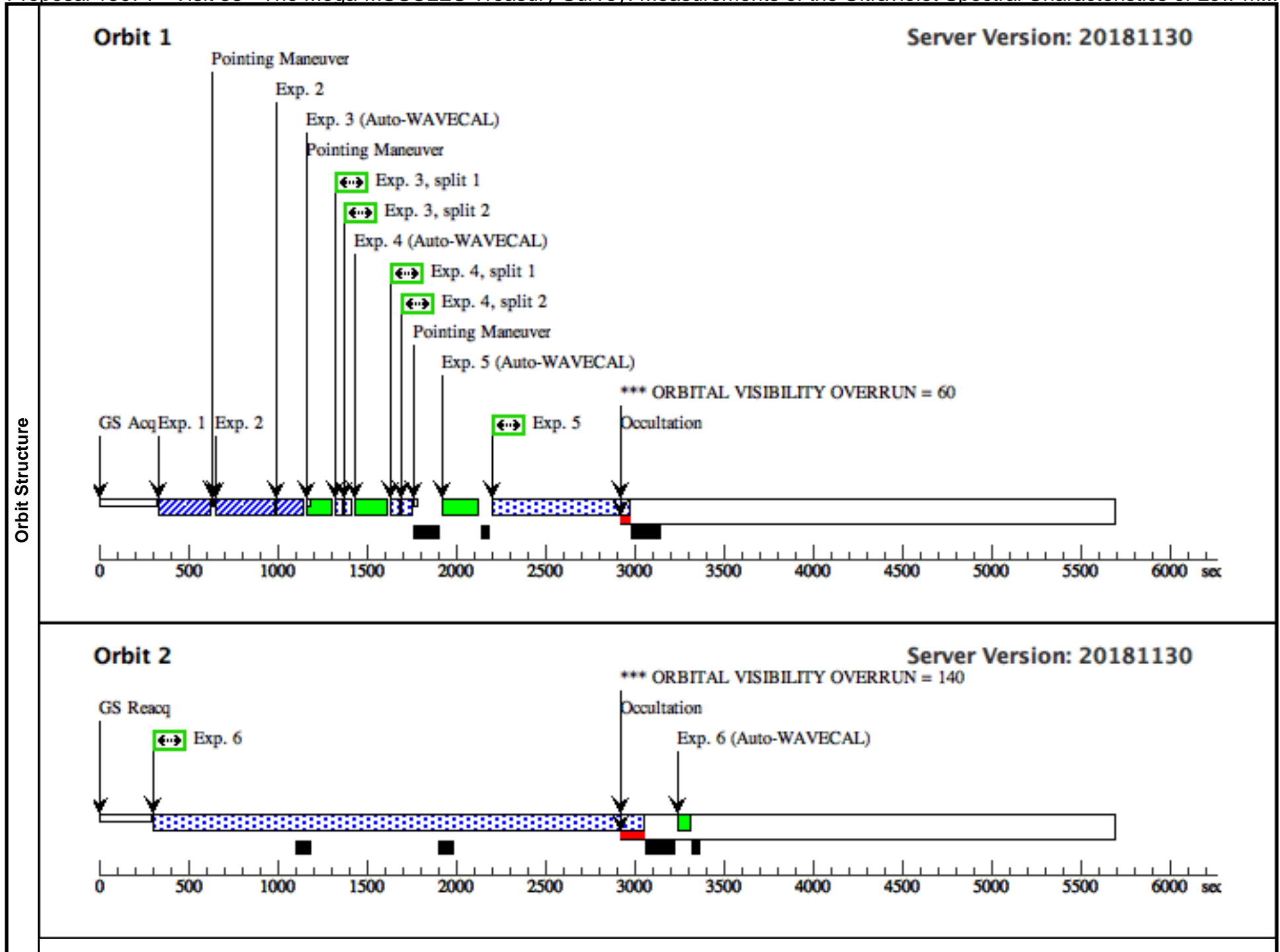


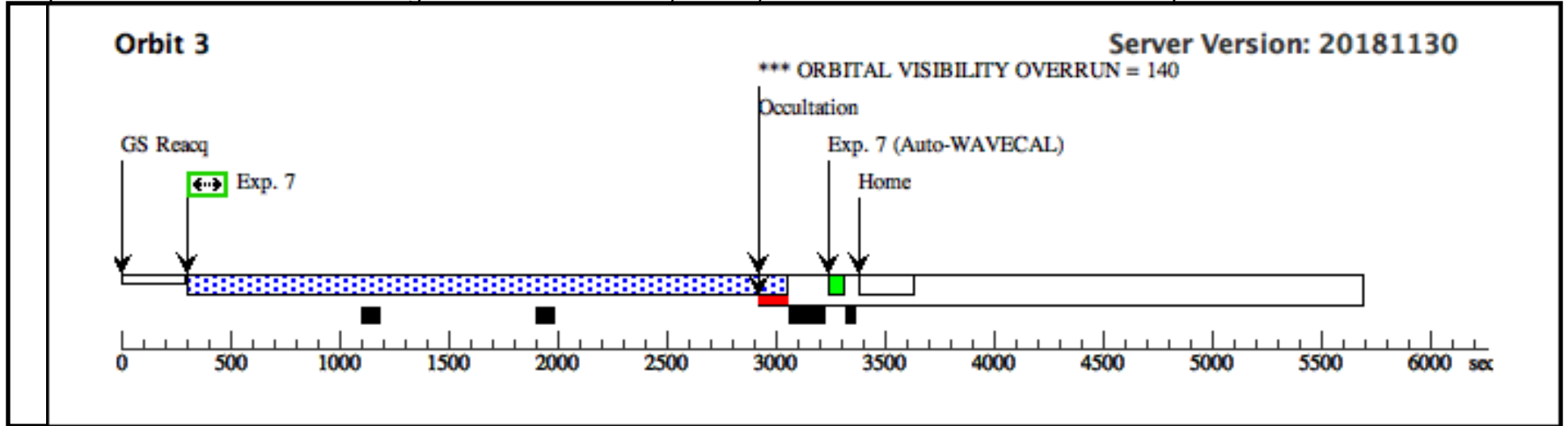


Proposal 15071 - Visit 38 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:46 GMT 2019

Visit	<p>Proposal 15071, Visit 38, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: SCHED 100%; GROUP 38,37 WITHIN 1D</p> <p><i>Comments: ETC estimates use 3300 K blackbody (NUV only) scaled to V magnitude plus distance-scaled emission line fluxes from MUSCLES GJ346 template star.</i></p> <p><i>01/24/2018: STIS G140M and G230L moved to E140M and G230LB for BOP.</i></p>																																																																																				
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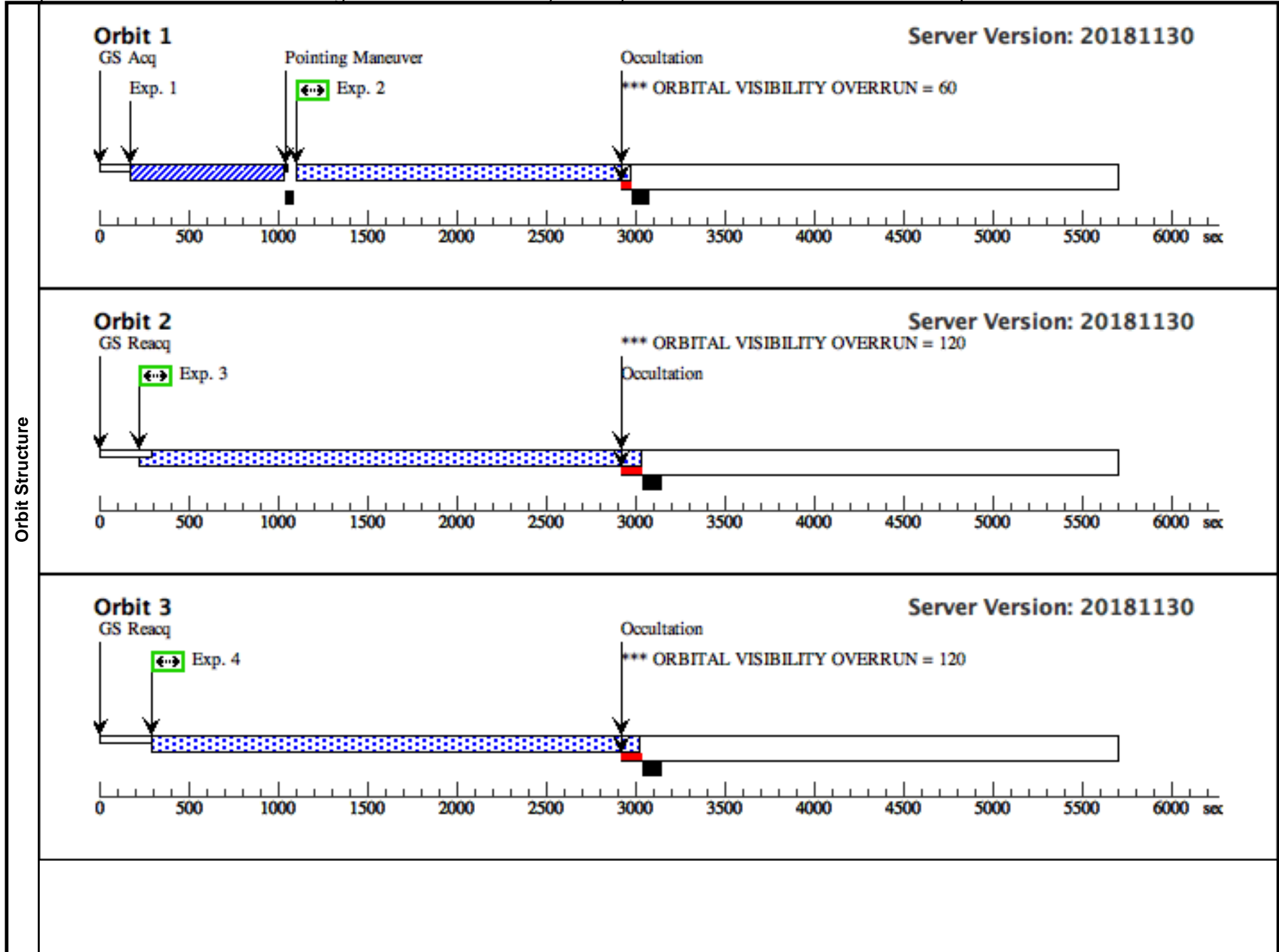


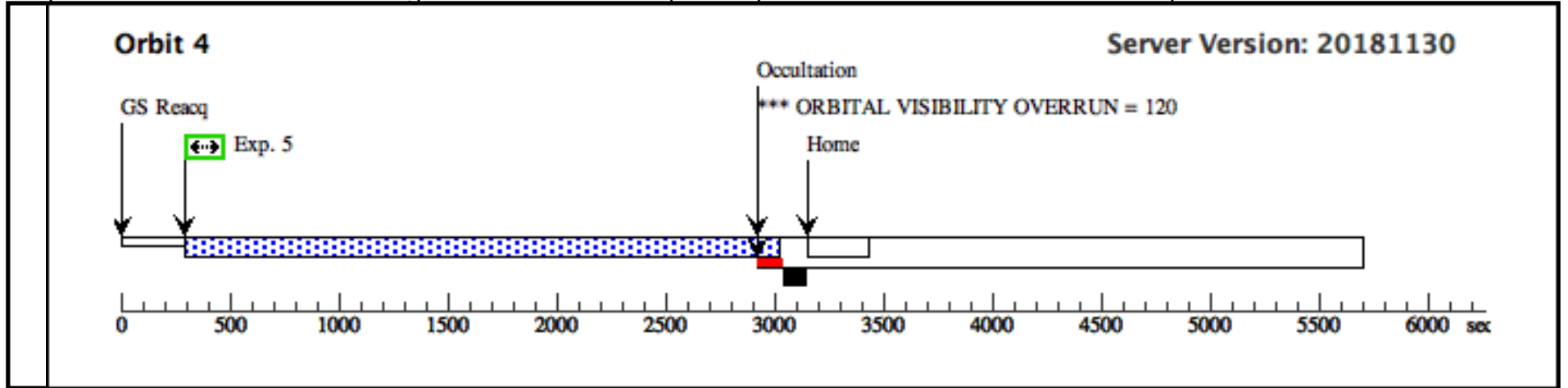


Proposal 15071 - Visit 39 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:46 GMT 2019

Visit	<p>Proposal 15071, Visit 39, failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: PCS MODE FINE; SCHED 100%; GROUP 39,40,41 WITHIN 3D</p> <p>Comments: Currently set up for a blind acquisition pending success of test visit 40.</p> <p>Input spectra for ETC calculations is the MUSCLES spectrum of GJ1214 scaled to the distance of Trappist-1.</p> <p>01/25/2018: Added an imaging target acquisition based on successful acq in Visit 42. Used updated STScI SNR requirement of 20 for imaging target acq.</p>																																																																																																			
	<p>(Visit 39) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(Visit 39) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 39) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 39) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 39) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>																																																																																																			
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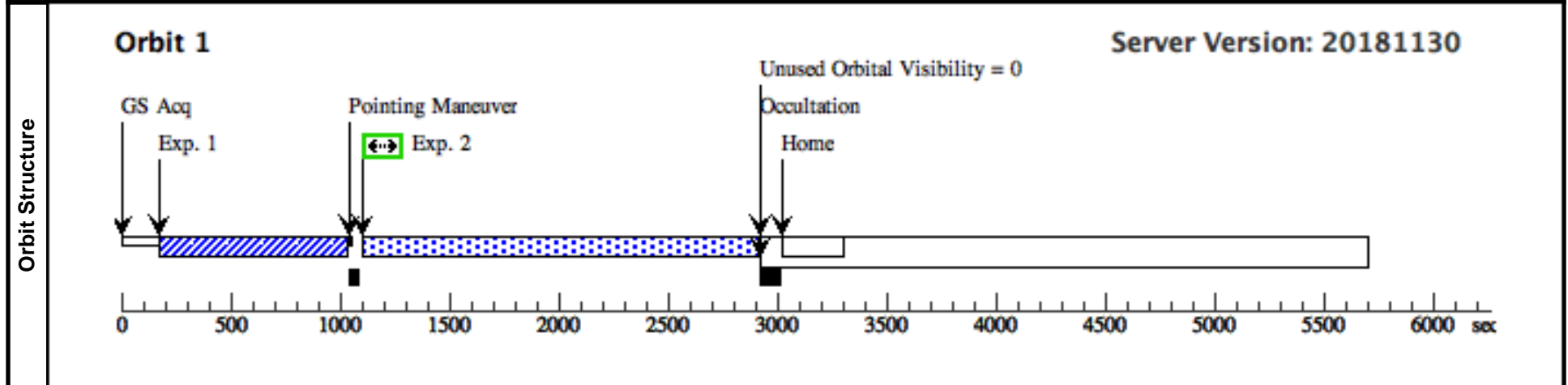


Visit	<p>Proposal 15071, HOPR (Z6), scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: PCS MODE FINE; SCHED 100%</p> <p><i>Comments: HOPR for 1st orbit of visit 39</i></p>
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Diagnostics	(HOPR (Z6)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.
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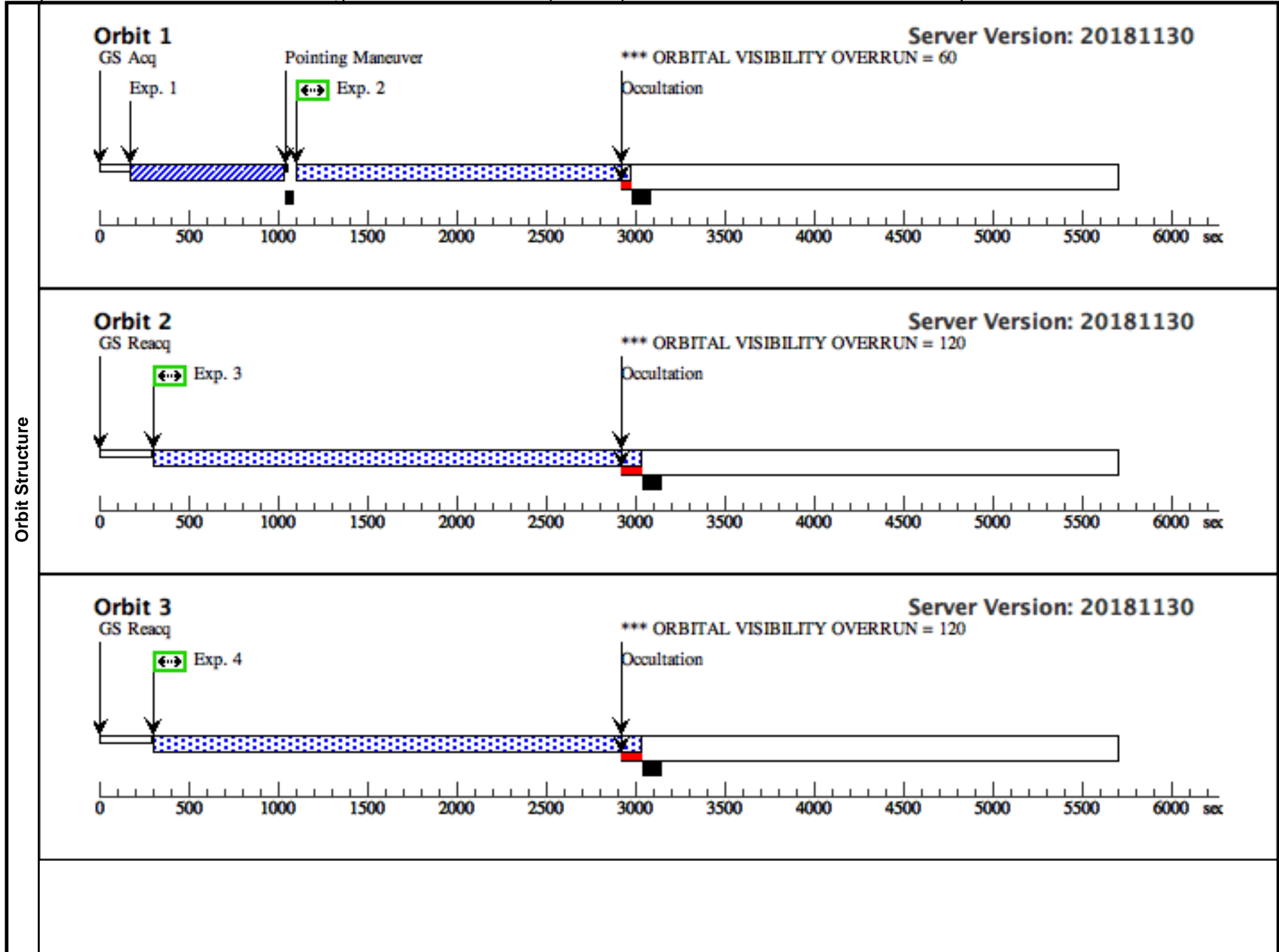
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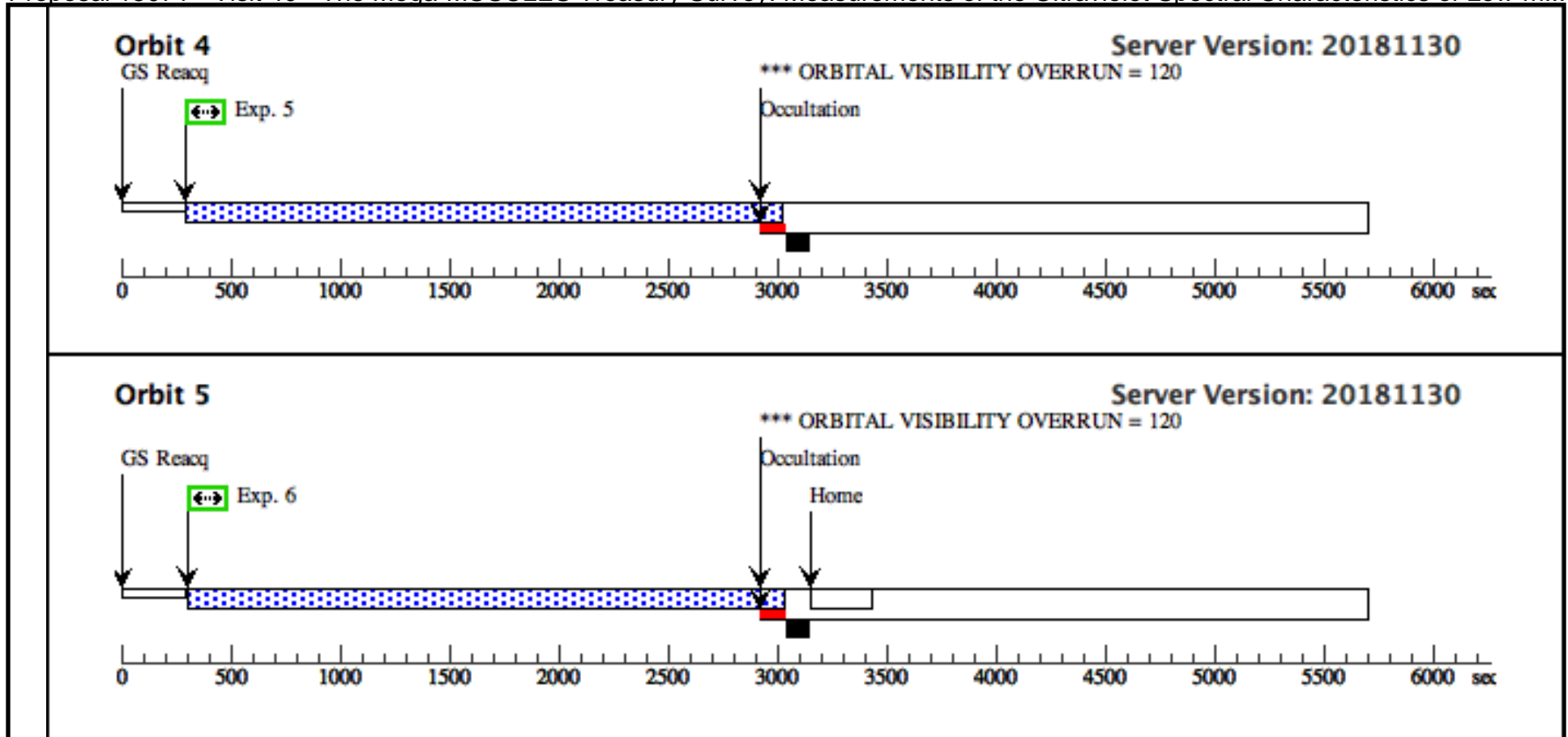


Proposal 15071 - Visit 40 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:46 GMT 2019

Visit	Proposal 15071, Visit 40, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100% <i>Comments: 01/25/2018: Added an imaging target acquisition based on successful acq in Visit 42. Used updated STScI SNR requirement of 20 for imaging target acq.</i>																																																																																									
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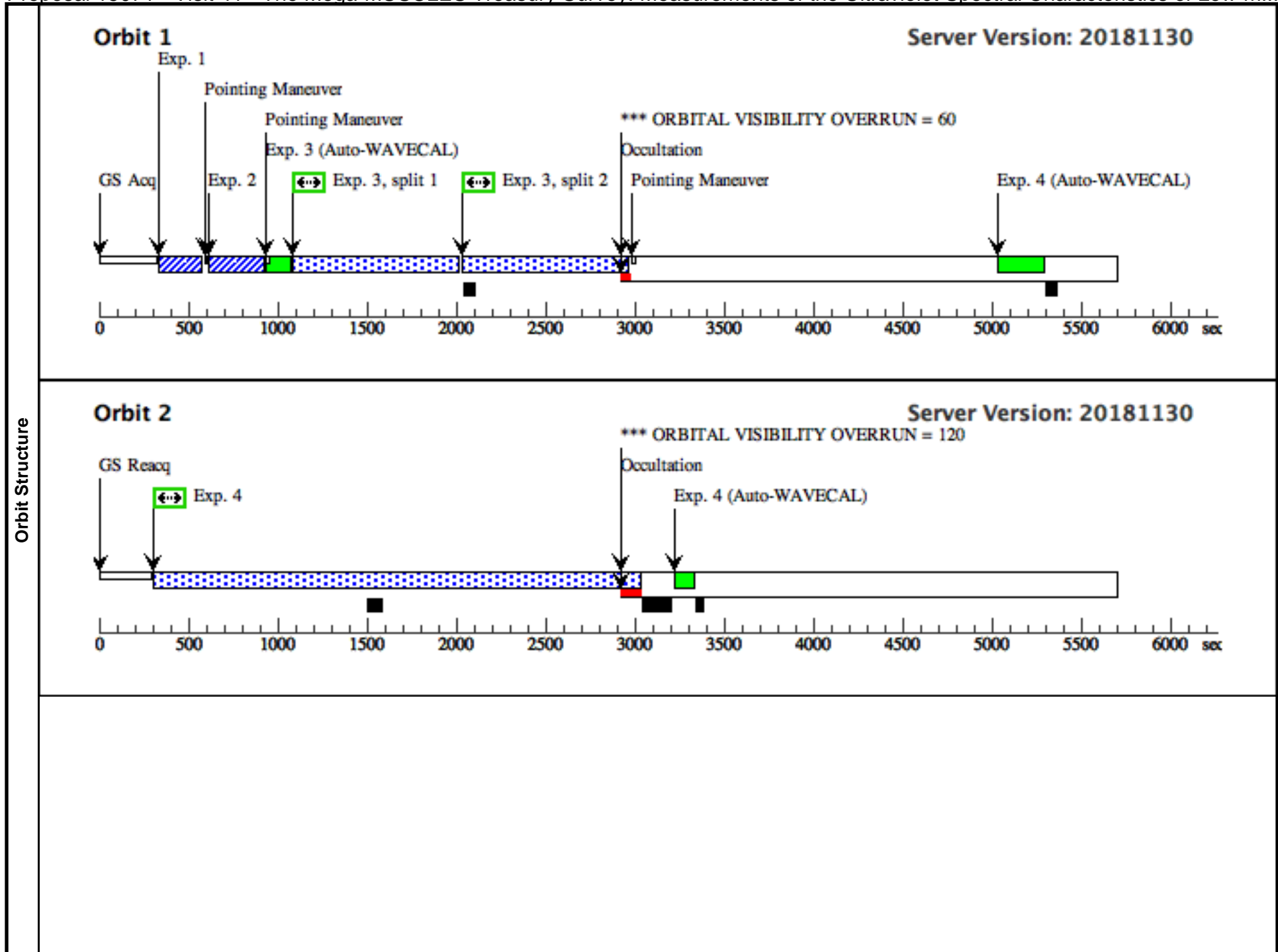




Proposal 15071 - Visit 41 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

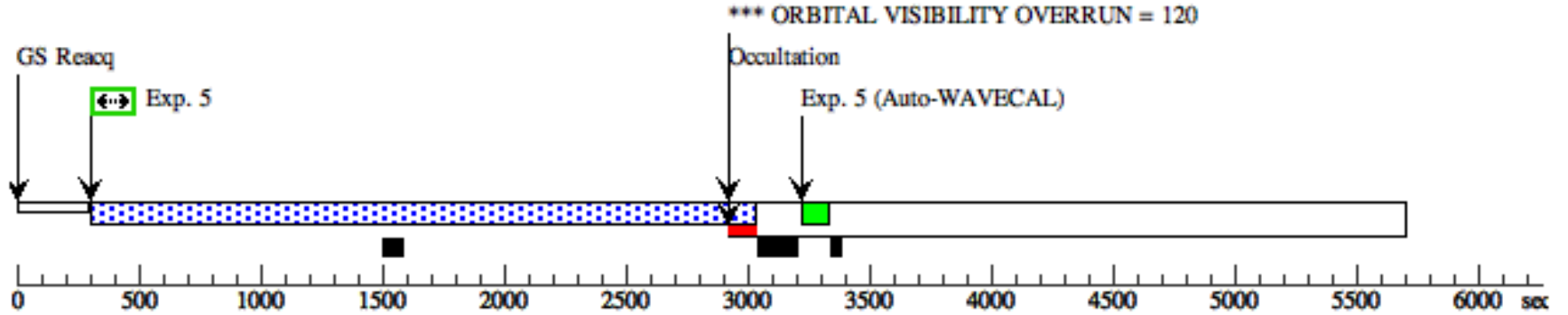
Mon May 06 20:01:46 GMT 2019

Visit	Proposal 15071, Visit 41, completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100%									
	(Visit 41) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 41) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 41) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 41) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 41) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
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	(13)	2MASS-J23062928-0502285	RA: 23 06 30.3400 (346.6264167d) Dec: -05 02 36.44 (-5.04346d) Equinox: J2000	Proper Motion RA: 922.1 mas/yr Proper Motion Dec: -471.9 mas/yr Parallax: 0.08258" Epoch of Position: 2015.86 Radial Velocity: -51.688 km/sec	V=18.798 Trappist-1	Reference Frame: ICRS				
Comments: Coordinates, proper motions, parallax taken from previous successful STIS observations of Trappist 1 (e.g., GO 14900 and GO 14493) wherein they verified the coordinates and proper motion values from HST images. Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, 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	(STIS.ta.100 9290)	(13) 2MASS-J23062 928-0502285	STIS/CCD, ACQ, F28X50LP	MIRROR				5 Secs (5 Secs) [==>]	[1]
	Comments: Assumed blackbody with T=2500 K, V=18.8. ETC gives 2.4 sec for SNR=40. Following the method of successful acquisitions in programs GO#14493,14900, we will adopt 5.0 sec for the exposure time.									
	2	(STIS.ta.100 9288)	(13) 2MASS-J23062 928-0502285	STIS/CCD, ACQ/PEAK, 52X0.1	MIRROR				8 Secs (8 Secs) [==>]	[1]
	Comments: Blackbody with T=2500 K and V=18.8.									
	3	(STIS.sp.10 09272)	(13) 2MASS-J23062 928-0502285	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A				1795 Secs (1795 Secs) [==>(Split 1)] [==>(Split 2)]	[1]
	4	(STIS.sp.10 09265)	(13) 2MASS-J23062 928-0502285	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A	BUFFER-TIME=12 00.0			2730 Secs (2710 Secs) [==>2710.0 Secs]	[2]
	Comments: Buffer time set below ETC recommendation because target can increase in brightness.									
5	(STIS.sp.10 09265)	(13) 2MASS-J23062 928-0502285	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A	BUFFER-TIME=12 00.0			2730 Secs (2710 Secs) [==>2710.0 Secs]	[3]	
6	(STIS.sp.10 09265)	(13) 2MASS-J23062 928-0502285	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A	BUFFER-TIME=12 00.0			2730 Secs (2710 Secs) [==>2710.0 Secs]	[4]	
7	(STIS.sp.10 09265)	(13) 2MASS-J23062 928-0502285	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A	BUFFER-TIME=12 00.0			2730 Secs (2710 Secs) [==>2710.0 Secs]	[5]	



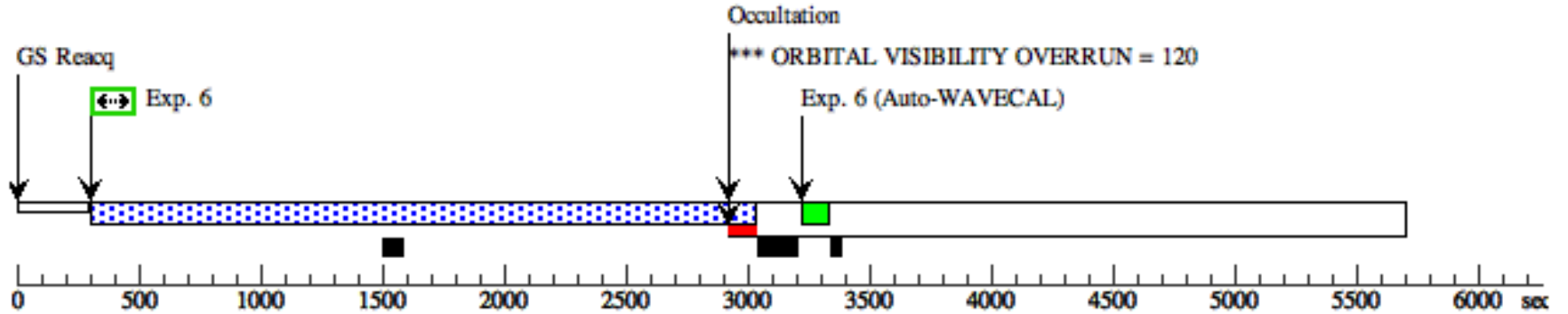
Orbit 3

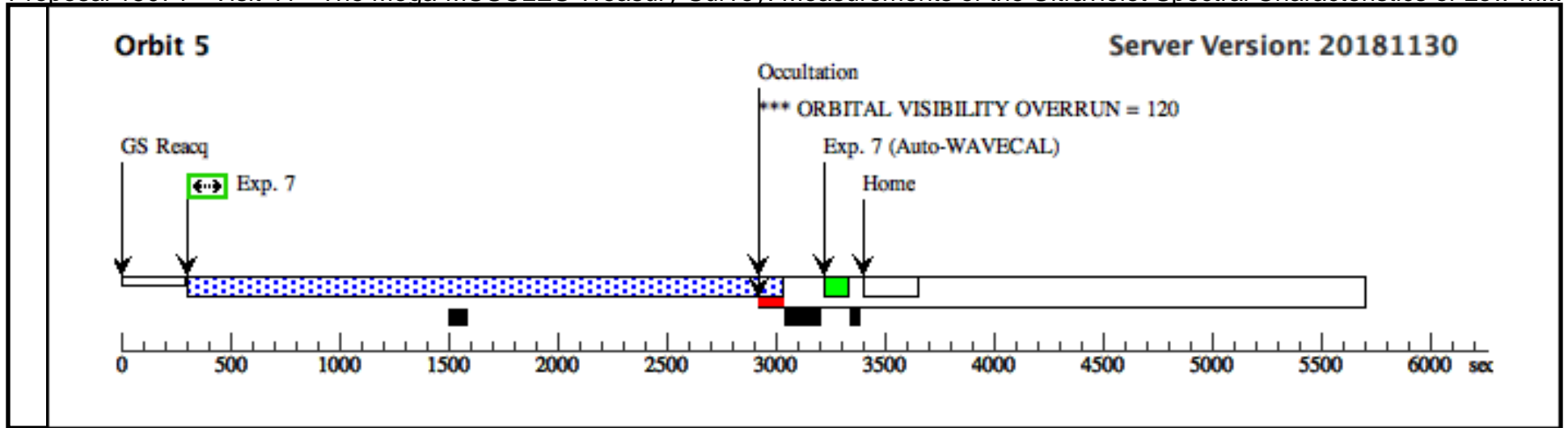
Server Version: 20181130



Orbit 4

Server Version: 20181130





Proposal 15071 - Visit 42 - The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-m...

Mon May 06 20:01:46 GMT 2019

Visit	Proposal 15071, Visit 42, completed Diagnostic Status: Warning Scientific Instruments: COS/NUV Special Requirements: SCHED 100%; BEFORE 05-DEC-2018:00:00:00 <i>Comments: Test orbit to ensure that COS target acquisition will work. Will also add G230L orbit to verify MgII detection if successful.</i>																																																
	Diagnosics (Visit 42) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (Visit 42) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 42) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																
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