



15326 - Characterizing the Winds of M Dwarf Stars

Cycle: 25, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(2) GJ887	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	02-Jan-2019 14:00:37.0	yes
Z1	(2) GJ887	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	02-Jan-2019 14:00:39.0	yes

Proposal 15326 (STScI Edit Number: 5, Created: Wednesday, January 2, 2019 at 2:01:00 PM Eastern Standard Time) - Overview

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
10	(2) GJ887	STIS/CCD STIS/FUV-MAMA	2	02-Jan-2019 14:00:40.0	yes
02	(3) GJ15A	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	02-Jan-2019 14:00:41.0	yes
11	(3) GJ15A	STIS/CCD STIS/FUV-MAMA	2	02-Jan-2019 14:00:43.0	yes
03	(4) GJ273	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	02-Jan-2019 14:00:44.0	yes
12	(4) GJ273	STIS/CCD STIS/FUV-MAMA	2	02-Jan-2019 14:00:45.0	yes
05	(6) GJ205	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	02-Jan-2019 14:00:46.0	yes
04	(5) GJ860A	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	02-Jan-2019 14:00:48.0	yes
13	(5) GJ860A	STIS/CCD STIS/FUV-MAMA	2	02-Jan-2019 14:00:49.0	yes
14	(6) GJ205	STIS/CCD STIS/FUV-MAMA	2	02-Jan-2019 14:00:50.0	yes
06	(7) GJ588	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	02-Jan-2019 14:00:52.0	yes
15	(7) GJ588	STIS/CCD STIS/FUV-MAMA	2	02-Jan-2019 14:00:53.0	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>
07	(9) GJ338A	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	02-Jan-2019 14:00:54.0	yes
16	(9) GJ338A	STIS/CCD STIS/FUV-MAMA	2	02-Jan-2019 14:00:55.0	yes
08	(8) GJ285	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	02-Jan-2019 14:00:57.0	yes
17	(8) GJ285	STIS/CCD STIS/FUV-MAMA	2	02-Jan-2019 14:00:58.0	yes
09	(10) GJ644A	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	02-Jan-2019 14:00:59.0	yes
18	(10) GJ644A	STIS/CCD STIS/FUV-MAMA	2	02-Jan-2019 14:01:00.0	yes

38 Total Orbits Used

ABSTRACT

We propose to use HST/STIS to study the H I Lyman-alpha spectra of nine very nearby ($d < 7$ pc) M dwarf stars, to measure stellar mass-loss rates using the astrospheric absorption technique. The Lyman-alpha astrospheric absorption signature is currently the only means of detecting the coronal winds of cool main sequence stars, and HST is the only observatory that has ever been capable of observing it. Our goal is to use the absorption to study the winds of M dwarf stars, and for the first time characterize how these winds correlate with stellar activity, as quantified by X-ray luminosity. Astrospheric absorption has so far been observed for only one M dwarf (EV Lac), so our project will greatly increase our understanding of M dwarf winds. Our measurements will be compared with and test predictions for M dwarf wind behavior from theoretical/numerical models, and from studies of stellar angular momentum evolution. We will also investigate the implications that our measurements have for planets orbiting M dwarfs.

OBSERVING DESCRIPTION

We plan to observe 9 M dwarfs stars with STIS for 4 orbits each. Our project is focused on detecting and measuring astrospheric absorption in the H I Lyman-alpha line at 1216 Angstroms, using the E140M grating, but confidence in this analysis is significantly improved with information provided by observations of the Mg II h & k lines near 2800 Angstroms, so we also observe the Mg II lines using the E230H grating. We acquire each of our rather bright stars with a short exposure onto the STIS/CCD with the F28X500II filter. An accurate wavelength scale is important for our purposes so we perform a peakup into the narrow 0.2X0.05ND aperture. This neutral density aperture is required to reduce the flux for our bright targets.

After acquisition and peakup, we spend the first orbit obtaining the E230H spectrum of the 2574-2851 Angstrom wavelength range, through the 0.2x0.09 aperture. The remaining 3 orbits are spent observing the 1150-1700 Angstrom range with the E140M grating, through the 0.2x0.2 aperture. The E140M grating does not have quite the resolution of E230H, but its $R=45,800$ resolution is good enough to study the H I Lyman-alpha line profile in the detail that we require. Because M dwarfs are known to be variable, we plan on obtaining our spectra in TIME-TAG mode.

Estimating expected S/N for our planned spectra requires first estimating Lyman-alpha and Mg II fluxes, which can be done roughly by extrapolating from previously observed M dwarfs, particularly EV Lac. Chromospheric line fluxes (such as Mg II and Lyman-alpha) are related to X-ray fluxes through known scaling laws (Wood et al. 2005a). Thus, Lyman-alpha or MgII fluxes for our stars can be estimated from known X-ray luminosities of our target stars. We expect our E230H spectra to attain a sufficient signal-to-noise of $S/N > 15$ per resolution element at line center for the strong Mg II lines, and the E140M spectrum to achieve a peak $S/N > 10$ within the H I Lyman-alpha line.

All of our targets are comfortably in compliance with STIS/MAMA bright object limits, as verified using both Table 13.44 in the STIS Instrument Handbook and the online STIS exposure time calculator. However, there is concern with regards to using COS or STIS to observe stars that flare, as M dwarfs in particular are known to do. A particularly massive flare could in principle violate Bright Object limits, even if the quiescent emission is orders of magnitude below them. Our 7 less active stars with $\log L_x < 28$ (see Table 1), which do not show H-alpha in emission, should be considered "inactive" and thereby easily observable based on flare star brightness constraints described in STIS ISR 2017-02. However, our two most active targets, GJ285 (M4.5 Ve) and GJ 644A (M3.5 Ve), which have $\log L_x > 28$ and show H-alpha in emission, should be considered "active" and are therefore problematic, as they are in the particularly problematic M3-5 spectral range.

For evaluating the safety of the E230H observation of GJ285 and GJ644A, we model a particularly big flare spectrum following STIS ISR 2017-02, decreasing the star's U magnitude by 8 mags, and then computing the resulting spectrum assuming a $T=9000$ K blackbody. For both GJ285 and

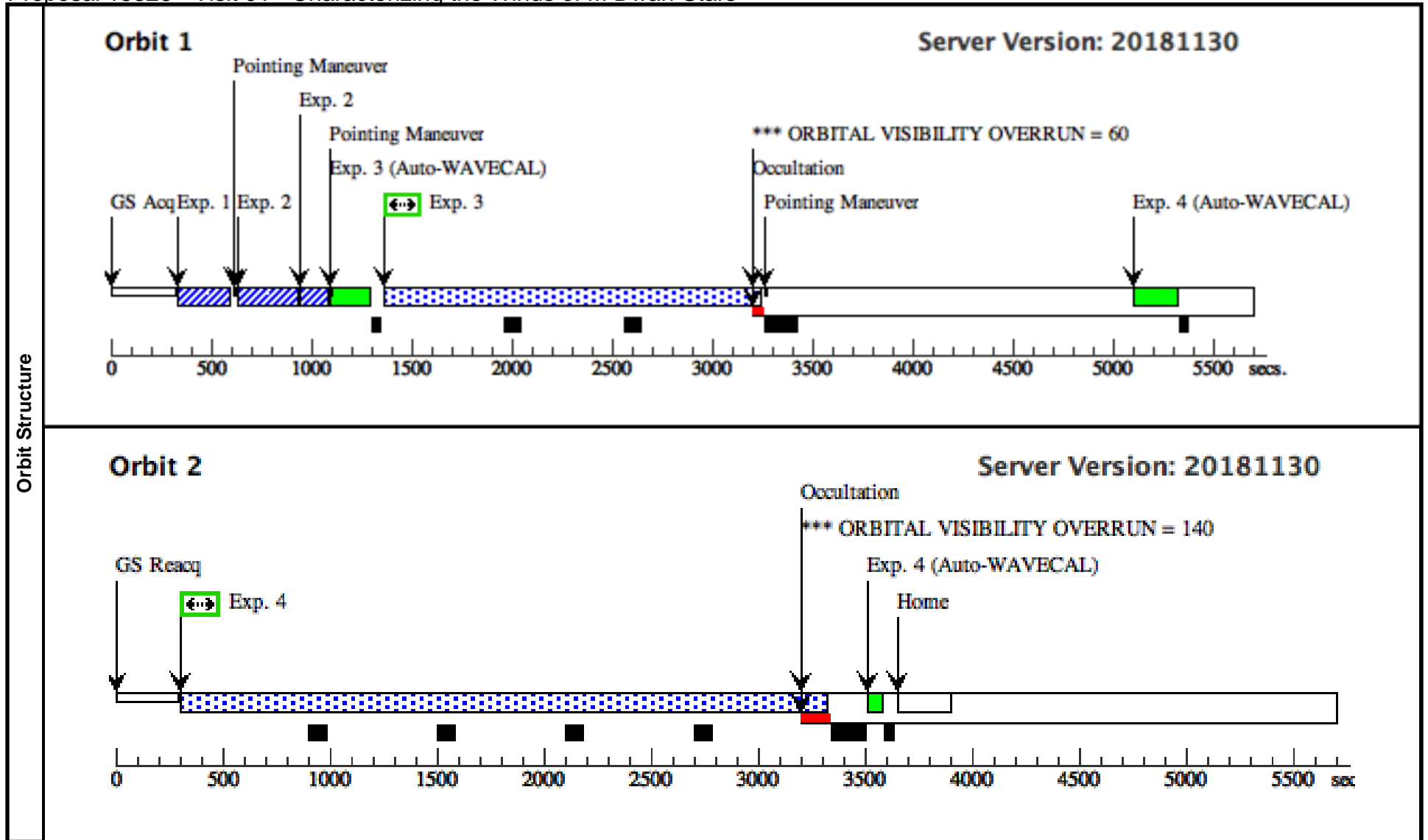
GJ644A, the resulting E230H spectrum does not quite violate the Bright Object constraints, but it is very close.

For evaluating the safety of the E140M observation of GJ285 and GJ644A, it is the Lyman-alpha line that is the line likely to be the source of concern, the continuum being unimportant even for a big flare. And it is the local count rate at the peak of the Ly-alpha line that is most likely to violate Bright Object limits. Following STIS ISR 2017-02, we take the aforementioned flare U magnitudes and use them to estimate a C IV flux for the flare using the Hawley et al. (2003) relation, leading to $f(\text{CIV})=3.1\text{e-}10$ and $f(\text{CIV})=4.1\text{e-}10$ ergs/cm²/s for GJ285 and GJ644A, respectively. In order to extrapolate to a Ly-alpha peak flux (in ergs/cm²/s/A), $f(\text{Lya})$, we note that 3 M flare stars previously observed by STIS/E140M (AD Leo, EV Lac, AU Mic) have shown $f(\text{Lya})/f(\text{CIV})$ ratios of 3.1, 6.9, and 9.2, respectively (e.g., Wood et al. 2005). We argue that assuming the maximum of these values, $f(\text{Lya})/f(\text{CIV})=9$, is a reasonably conservative assumption, noting that during a giant flare the expectation would be that $f(\text{Lya})/f(\text{CIV})$ should if anything go DOWN, as high temperatures are more prevalent during a flare. With this assumption, we compute $f(\text{Lya})=2.8\text{e-}9$ and $f(\text{Lya})=3.7\text{e-}9$ ergs/cm²/s/A for GJ285 and GJ644A, respectively. Using the STIS ETC, we find that this does not violate the Bright Object constraint, but as for the E230H spectrum, it is very close.

Proposal 15326 - Visit 01 - Characterizing the Winds of M Dwarf Stars

Wed Jan 02 19:01:00 GMT 2019

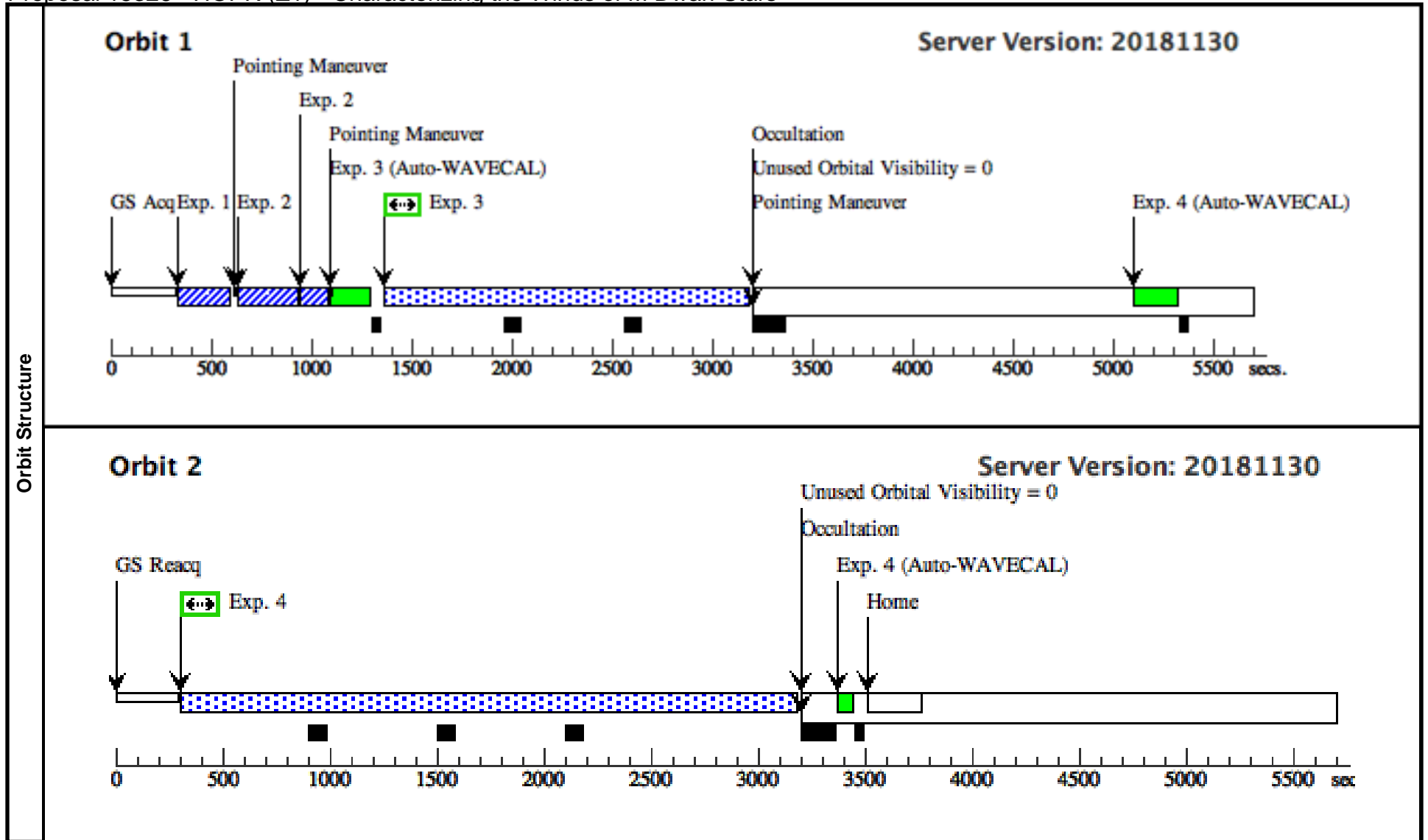
Visit	Proposal 15326, Visit 01, failed Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: (none)																																																																																															
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Fixed 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>(2)</td> <td>GJ887</td> <td>RA: 23 05 52.0360 (346.4668167d)</td> <td>Proper Motion RA: 6768.20 mas/yr</td> <td>V=7.34+/-0.05</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: HD217987</td> <td>Dec: -35 51 11.05 (-35.85307d)</td> <td>Proper Motion Dec: 1327.52 mas/yr</td> <td>U-MAG=10.02+/-0.05,</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Equinox: J2000</td> <td>Parallax: 0.30526"</td> <td>TYPE=M2V,</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 2000.0</td> <td>F-LINE(2796)=4.7+/-1.2E-13,</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Radial Velocity: +7.5 km/sec</td> <td>W-LINE(2796)=0.3,</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>F-LINE(1216)=3.7+/-0.9E-13,</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>W-LINE(1216)=0.9</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	GJ887	RA: 23 05 52.0360 (346.4668167d)	Proper Motion RA: 6768.20 mas/yr	V=7.34+/-0.05	Reference Frame: ICRS		Alt Name1: HD217987	Dec: -35 51 11.05 (-35.85307d)	Proper Motion Dec: 1327.52 mas/yr	U-MAG=10.02+/-0.05,				Equinox: J2000	Parallax: 0.30526"	TYPE=M2V,					Epoch of Position: 2000.0	F-LINE(2796)=4.7+/-1.2E-13,					Radial Velocity: +7.5 km/sec	W-LINE(2796)=0.3,						F-LINE(1216)=3.7+/-0.9E-13,						W-LINE(1216)=0.9		Comments: See individual measurements in SIMBAD for U-mag. Category=STAR Description=[M V-IV] Extended=NO																																														
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Proposal 15326 - HOPR (Z1) - Characterizing the Winds of M Dwarf Stars

Wed Jan 02 19:01:01 GMT 2019

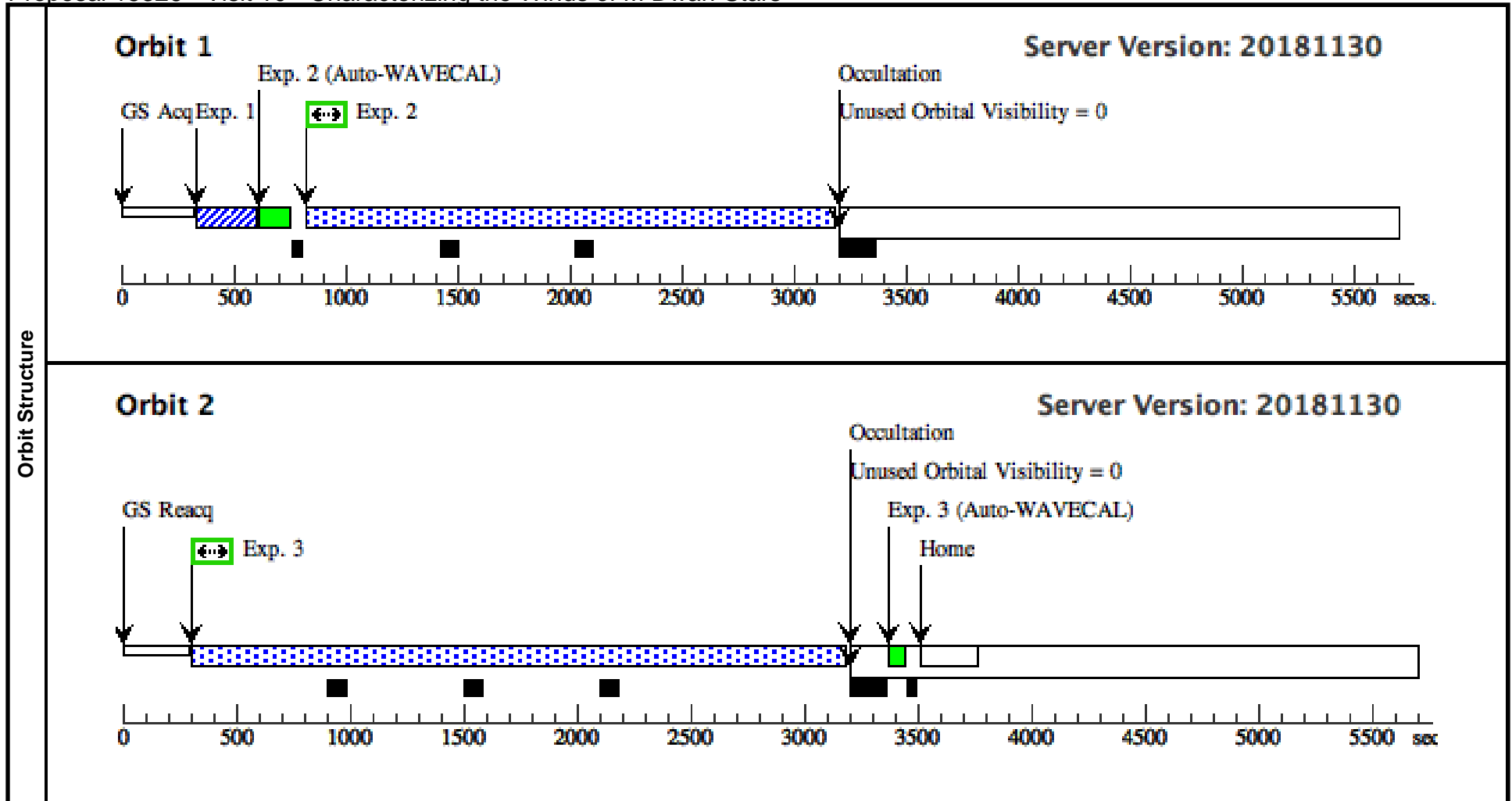
Visit	Proposal 15326, HOPR (Z1) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(2)	GJ887 Alt Name1: HD217987	RA: 23 05 52.0360 (346.4668167d) Dec: -35 51 11.05 (-35.85307d) Equinox: J2000	Proper Motion RA: 6768.20 mas/yr Proper Motion Dec: 1327.52 mas/yr Parallax: 0.30526" Epoch of Position: 2000.0 Radial Velocity: +7.5 km/sec	V=7.34+/-0.05 U-MAG=10.02+/-0.05, TYPE=M2V, F-LINE(2796)=4.7+/-1.2E-13, W-LINE(2796)=0.3, F-LINE(1216)=3.7+/-0.9E-13, W-LINE(1216)=0.9	Reference Frame: ICRS			
	<i>Comments: See individual measurements in SIMBAD for U-mag.</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.100 8855)	(2) GJ887	STIS/CCD, ACQ, F28X500II	MIRROR				2 Secs (2 Secs) [==>]	[1]
	2	(STIS.ta.100 8903)	(2) GJ887	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				0.2 Secs (0.2 Secs) [==>]	[1]
	3	(STIS.sp.10 08933)	(2) GJ887	STIS/NUV-MAMA, TIME-TAG, 0.2X0.09	E230H 2713 A	BUFFER-TIME=60 0			1800 Secs (1806 Secs) [==>1806.0 Secs]	[1]
	4	(STIS.sp.10 08895)	(2) GJ887	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=60 0			2700 Secs (2868 Secs) [==>2868.0 Secs]	[2]



Proposal 15326 - Visit 10 - Characterizing the Winds of M Dwarf Stars

Wed Jan 02 19:01:01 GMT 2019

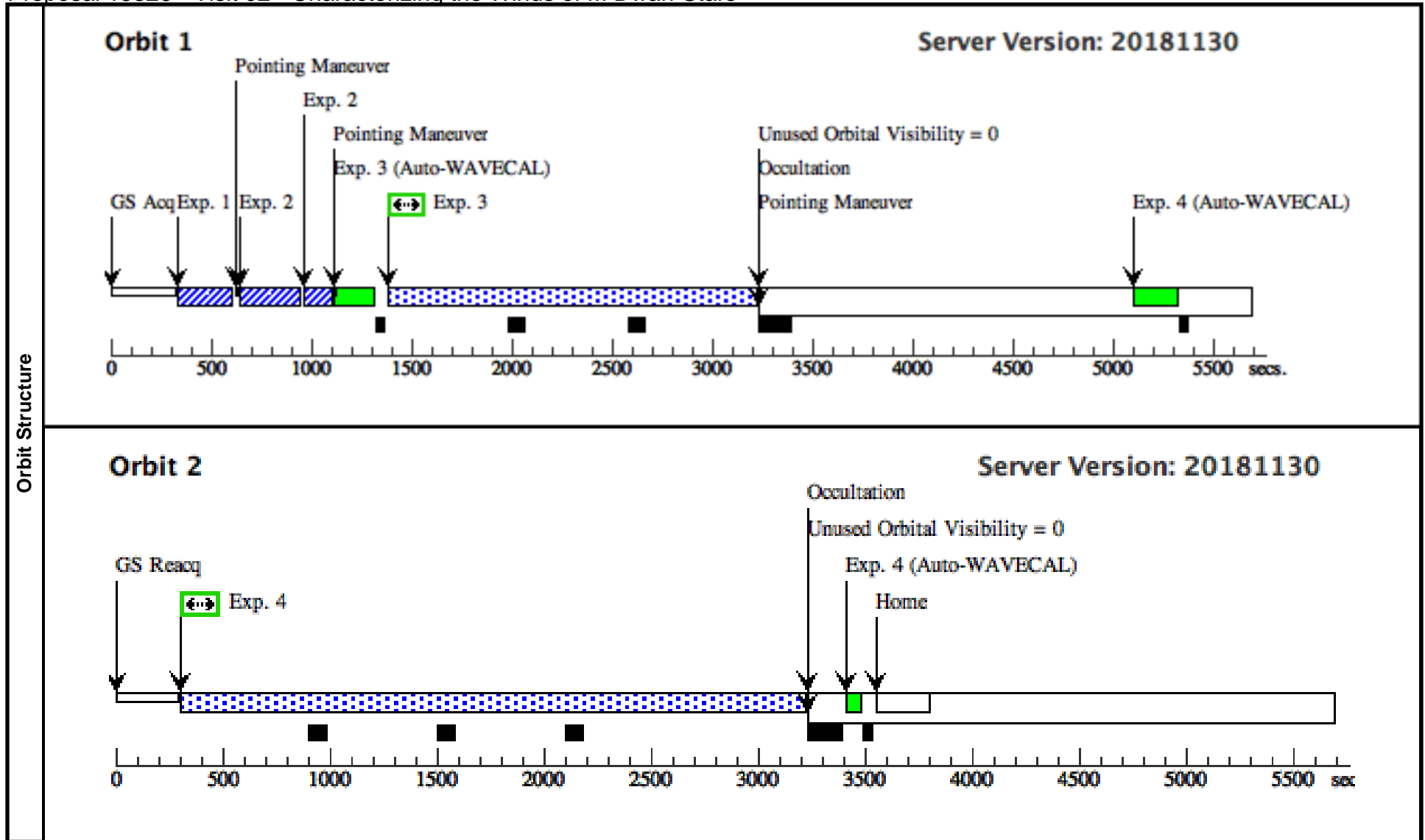
Visit	Proposal 15326, Visit 10, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(2)	GJ887 Alt Name1: HD217987	RA: 23 05 52.0360 (346.4668167d) Dec: -35 51 11.05 (-35.85307d) Equinox: J2000	Proper Motion RA: 6768.20 mas/yr Proper Motion Dec: 1327.52 mas/yr Parallax: 0.30526" Epoch of Position: 2000.0 Radial Velocity: +7.5 km/sec	V=7.34+/-0.05 U-MAG=10.02+/-0.05, TYPE=M2V, F-LINE(2796)=4.7+/-1.2E-13, W-LINE(2796)=0.3, F-LINE(1216)=3.7+/-0.9E-13, W-LINE(1216)=0.9	Reference Frame: ICRS				
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	2	(STIS.sp.10 08895)	(2) GJ887	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=60 0			2300 Secs (2347 Secs) [==>2347.0 Secs]	[1]
	3	(STIS.sp.10 08895)	(2) GJ887	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=60 0			2300 Secs (2868 Secs) [==>2868.0 Secs]	[2]



Proposal 15326 - Visit 02 - Characterizing the Winds of M Dwarf Stars

Wed Jan 02 19:01:01 GMT 2019

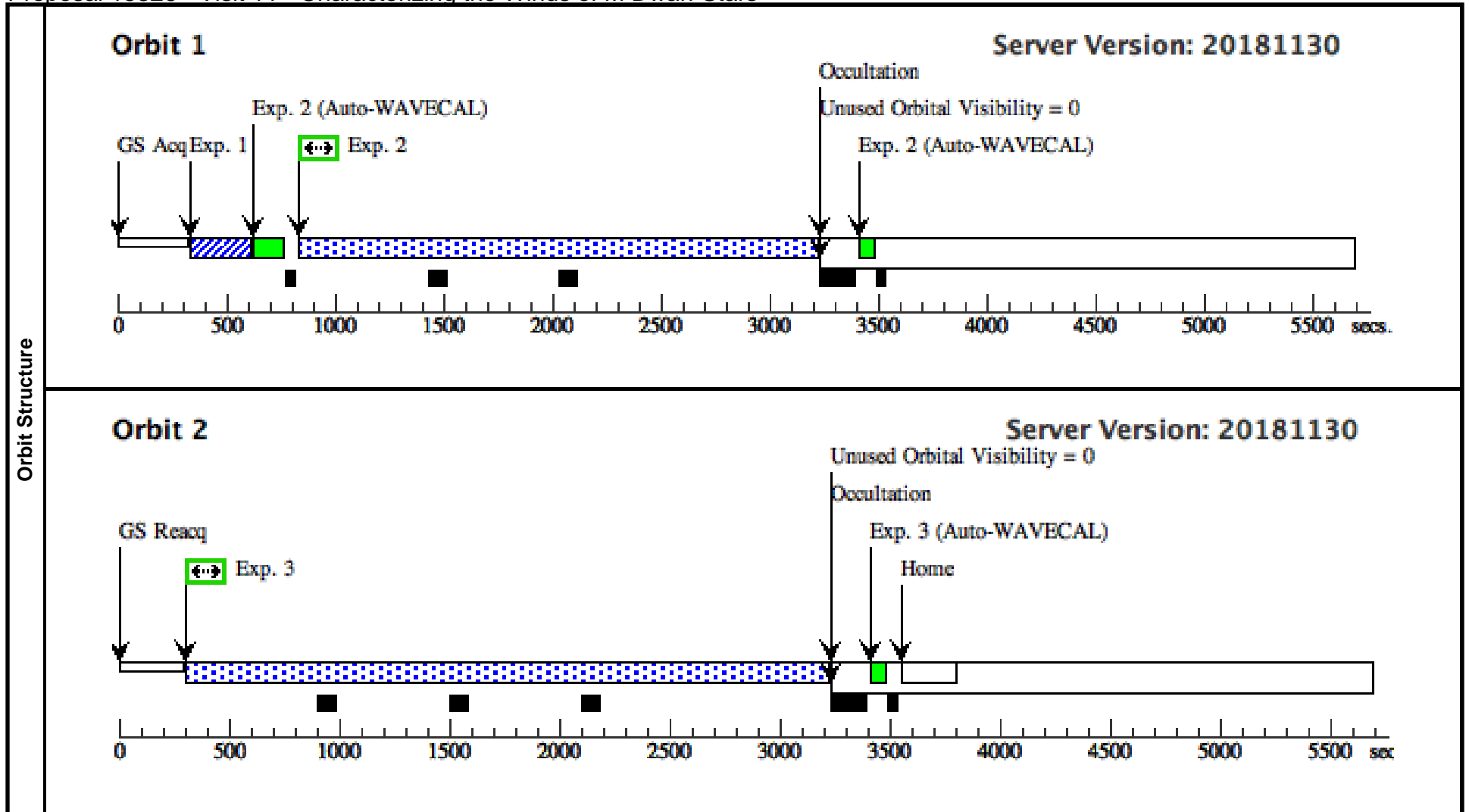
Visit	Proposal 15326, Visit 02, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: BETWEEN 17-FEB-2017:00:00:00 AND 10-DEC-2017:00:00:00; BETWEEN 17-FEB-2018:00:00:00 AND 10-DEC-2018:00:00:00; BETWEEN 17-FEB-2019:00:00:00 AND 10-DEC-2019:00:00:00; BETWEEN 17-FEB-2020:00:00:00 AND 10-DEC-2020:00:00:00																																																		
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>GJ15A</td> <td>RA: 00 18 22.8865 (4.5953604d)</td> <td>Proper Motion RA: 2888.92 mas/yr</td> <td>V=8.13+/-0.05</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: HD1326</td> <td>Dec: +44 01 22.65 (44.02296d)</td> <td>Proper Motion Dec: 410.10 mas/yr</td> <td>U-MAG=10.93+/-0.05,</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: GX-AND</td> <td>Equinox: J2000</td> <td>Parallax: 0.28074"</td> <td>TYPE=M2V,</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 2000.0</td> <td>F-LINE(2796)=5.0+/-1.3E-13,</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Radial Velocity: +11.62 km/sec</td> <td>W-LINE(2796)=0.3,</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>F-LINE(1216)=4.5+/-1.1E-13,</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>W-LINE(1216)=0.9</td> <td></td> </tr> </tbody> </table> <p><i>Comments: See individual measurements in SIMBAD for U-mag.</i> Category=STAR Description=[M V-IV] Extended=NO</p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(3)	GJ15A	RA: 00 18 22.8865 (4.5953604d)	Proper Motion RA: 2888.92 mas/yr	V=8.13+/-0.05	Reference Frame: ICRS		Alt Name1: HD1326	Dec: +44 01 22.65 (44.02296d)	Proper Motion Dec: 410.10 mas/yr	U-MAG=10.93+/-0.05,			Alt Name2: GX-AND	Equinox: J2000	Parallax: 0.28074"	TYPE=M2V,					Epoch of Position: 2000.0	F-LINE(2796)=5.0+/-1.3E-13,					Radial Velocity: +11.62 km/sec	W-LINE(2796)=0.3,						F-LINE(1216)=4.5+/-1.1E-13,						W-LINE(1216)=0.9		
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Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(STIS.ta.100 8915)</td> <td>(3) GJ15A</td> <td>STIS/CCD, ACQ, F28X500II</td> <td>MIRROR</td> <td></td> <td></td> <td></td> <td>5 Secs (5 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(STIS.ta.100 8917)</td> <td>(3) GJ15A</td> <td>STIS/CCD, ACQ/PEAK, 0.2X0.05ND</td> <td>MIRROR</td> <td></td> <td></td> <td></td> <td>0.4 Secs (0.4 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>(STIS.sp.10 08927)</td> <td>(3) GJ15A</td> <td>STIS/NUV-MAMA, TIME-TAG, 0.2X0.09</td> <td>E230H 2713 A</td> <td>BUFFER-TIME=60 0</td> <td></td> <td></td> <td>1800 Secs (1826 Secs) [==>1826.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>(STIS.sp.10 08937)</td> <td>(3) GJ15A</td> <td>STIS/FUV-MAMA, TIME-TAG, 0.2X0.2</td> <td>E140M 1425 A</td> <td>BUFFER-TIME=60 0</td> <td></td> <td></td> <td>2700 Secs (2906 Secs) [==>2906.0 Secs]</td> <td>[2]</td> </tr> </tbody> </table>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	(STIS.ta.100 8915)	(3) GJ15A	STIS/CCD, ACQ, F28X500II	MIRROR				5 Secs (5 Secs) [==>]	[1]	2	(STIS.ta.100 8917)	(3) GJ15A	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				0.4 Secs (0.4 Secs) [==>]	[1]	3	(STIS.sp.10 08927)	(3) GJ15A	STIS/NUV-MAMA, TIME-TAG, 0.2X0.09	E230H 2713 A	BUFFER-TIME=60 0			1800 Secs (1826 Secs) [==>1826.0 Secs]	[1]	4	(STIS.sp.10 08937)	(3) GJ15A	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=60 0			2700 Secs (2906 Secs) [==>2906.0 Secs]	[2]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																										
1	(STIS.ta.100 8915)	(3) GJ15A	STIS/CCD, ACQ, F28X500II	MIRROR				5 Secs (5 Secs) [==>]	[1]																																										
2	(STIS.ta.100 8917)	(3) GJ15A	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				0.4 Secs (0.4 Secs) [==>]	[1]																																										
3	(STIS.sp.10 08927)	(3) GJ15A	STIS/NUV-MAMA, TIME-TAG, 0.2X0.09	E230H 2713 A	BUFFER-TIME=60 0			1800 Secs (1826 Secs) [==>1826.0 Secs]	[1]																																										
4	(STIS.sp.10 08937)	(3) GJ15A	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=60 0			2700 Secs (2906 Secs) [==>2906.0 Secs]	[2]																																										



Proposal 15326 - Visit 11 - Characterizing the Winds of M Dwarf Stars

Wed Jan 02 19:01:01 GMT 2019

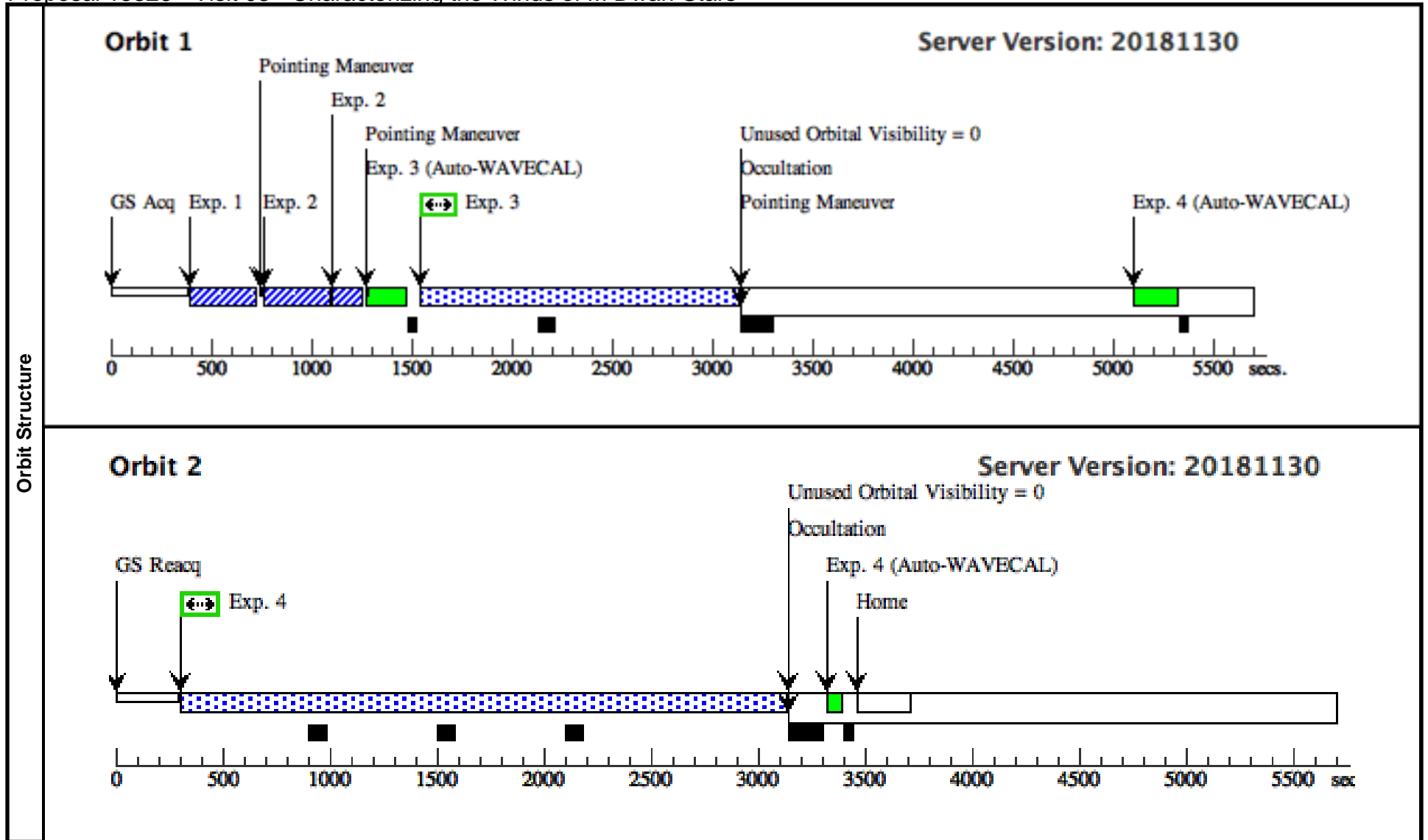
Visit	Proposal 15326, Visit 11, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: BETWEEN 17-FEB-2017:00:00:00 AND 10-DEC-2017:00:00:00; BETWEEN 17-FEB-2018:00:00:00 AND 10-DEC-2018:00:00:00; BETWEEN 17-FEB-2019:00:00:00 AND 10-DEC-2019:00:00:00; BETWEEN 17-FEB-2020:00:00:00 AND 10-DEC-2020:00:00:00									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(3)	GJ15A	RA: 00 18 22.8865 (4.5953604d)	Proper Motion RA: 2888.92 mas/yr	V=8.13+/-0.05	Reference Frame: ICRS			
		Alt Name1: HD1326	Dec: +44 01 22.65 (44.02296d)	Proper Motion Dec: 410.10 mas/yr	U-MAG=10.93+/-0.05,					
		Alt Name2: GX-AND	Equinox: J2000	Parallax: 0.28074"	TYPE=M2V,					
				Epoch of Position: 2000.0	F-LINE(2796)=5.0+/-1.3E-13,					
				Radial Velocity: +11.62 km/sec	W-LINE(2796)=0.3,					
					F-LINE(1216)=4.5+/-1.1E-13,					
					W-LINE(1216)=0.9					
	<i>Comments: See individual measurements in SIMBAD for U-mag.</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.100 8915)	(3) GJ15A	STIS/CCD, ACQ, F28X500II	MIRROR				5 Secs (5 Secs)	
								[==>]	[1]	
	2	(STIS.sp.10 08937)	(3) GJ15A	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=60 0			2300 Secs (2373 Secs)	
								[==>2373.0 Secs]	[1]	
	3	(STIS.sp.10 08937)	(3) GJ15A	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=60 0			2700 Secs (2906 Secs)	
								[==>2906.0 Secs]	[2]	



Proposal 15326 - Visit 03 - Characterizing the Winds of M Dwarf Stars

Wed Jan 02 19:01:01 GMT 2019

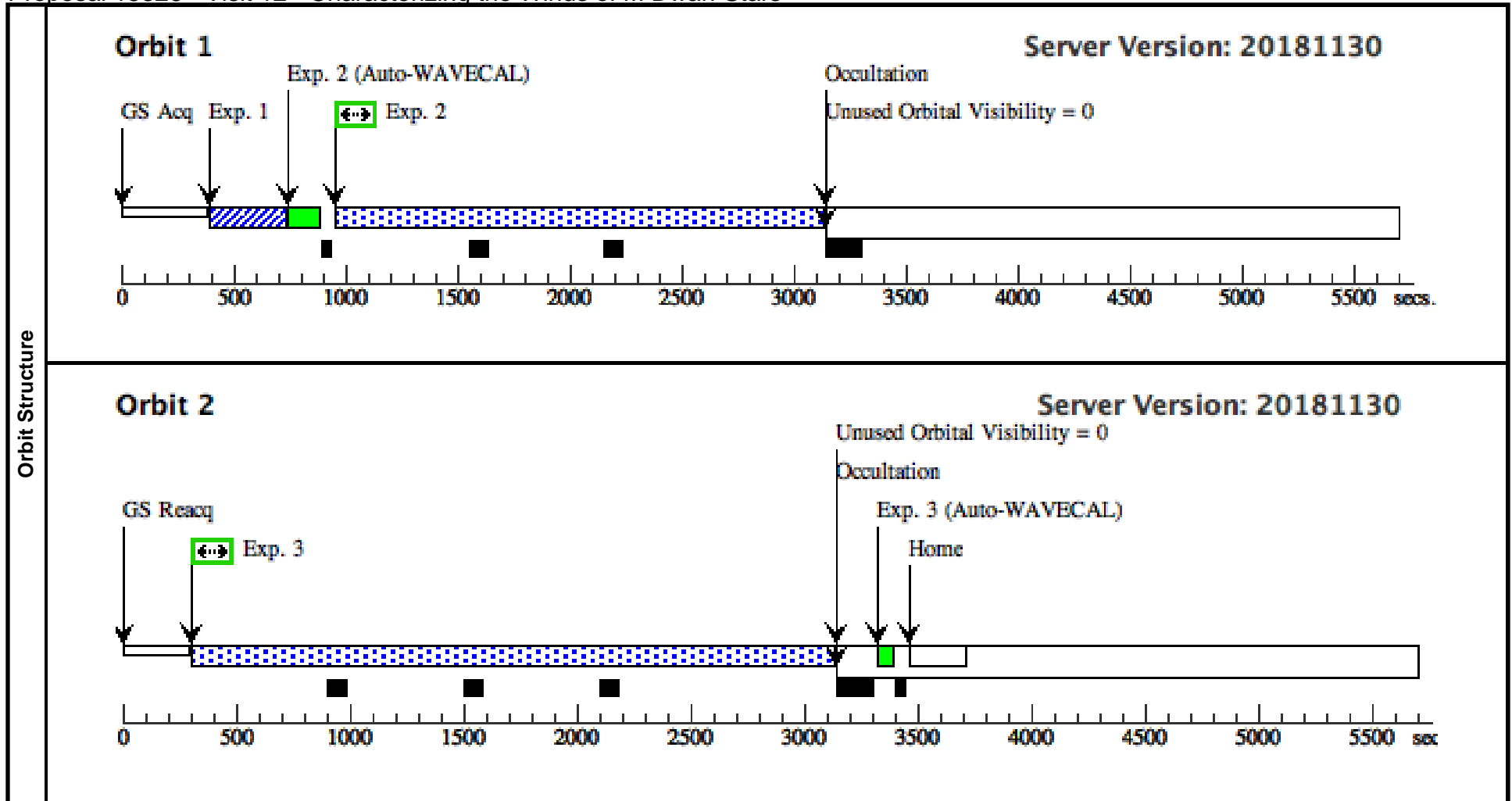
Visit	Proposal 15326, Visit 03, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: BETWEEN 23-JUN-2017:00:00:00 AND 01-FEB-2018:00:00:00; BETWEEN 23-JUN-2018:00:00:00 AND 01-FEB-2019:00:00:00; BETWEEN 23-JUN-2019:00:00:00 AND 01-FEB-2020:00:00:00; BETWEEN 23-JUN-2020:00:00:00 AND 01-FEB-2021:00:00:00									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(4)	GJ273 Alt Name1: LHS-33	RA: 07 27 24.5000 (111.8520833d) Dec: +05 13 32.83 (5.22579d) Equinox: J2000	Proper Motion RA: 572.51 mas/yr Proper Motion Dec: -3693.51 mas/yr Parallax: 0.26298" Epoch of Position: 2000.0 Radial Velocity: +18.22 km/sec	V=9.87+/-0.05 U-MAG=12.56+/-0.05, TYPE=M3.5V, F-LINE(2796)=1.5+/-0.4E-13, W-LINE(2796)=0.3, F-LINE(1216)=1.1+/-0.3E-13, W-LINE(1216)=0.9	Reference Frame: ICRS			
	<i>Comments:</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.100 8966)	(4) GJ273	STIS/CCD, ACQ, F28X500II	MIRROR		GS ACQ SCENARI O BASE1BE		20 Secs (20 Secs) [==>]	[1]
	2	(STIS.ta.100 8988)	(4) GJ273	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				2.0 Secs (2 Secs) [==>]	[1]
	3	(STIS.sp.10 09014)	(4) GJ273	STIS/NUV-MAMA, TIME-TAG, 0.2X0.09	E230H 2713 A		BUFFER-TIME=60 0		1700 Secs (1575 Secs) [==>1575.0 Secs]	[1]
	4	(STIS.sp.10 09034)	(4) GJ273	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A		BUFFER-TIME=60 0		2700 Secs (2813 Secs) [==>2813.0 Secs]	[2]



Proposal 15326 - Visit 12 - Characterizing the Winds of M Dwarf Stars

Wed Jan 02 19:01:01 GMT 2019

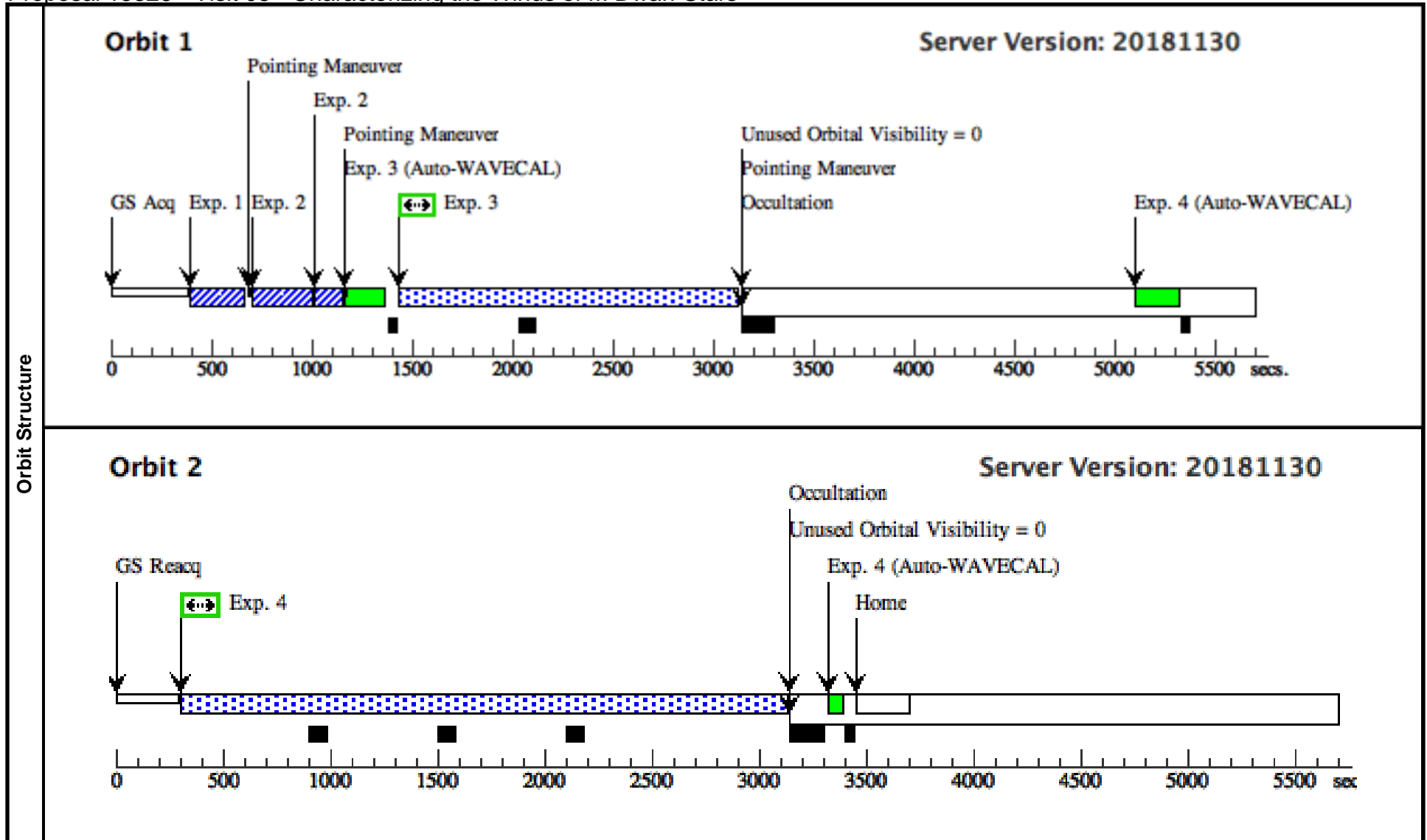
Visit	Proposal 15326, Visit 12, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: BETWEEN 23-JUN-2017:00:00:00 AND 01-FEB-2018:00:00:00; BETWEEN 23-JUN-2018:00:00:00 AND 01-FEB-2019:00:00:00; BETWEEN 23-JUN-2019:00:00:00 AND 01-FEB-2020:00:00:00; BETWEEN 23-JUN-2020:00:00:00 AND 01-FEB-2021:00:00:00									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(4)	GJ273	RA: 07 27 24.5000 (111.8520833d) Dec: +05 13 32.83 (5.22579d) Equinox: J2000	Proper Motion RA: 572.51 mas/yr Proper Motion Dec: -3693.51 mas/yr Parallax: 0.26298" Epoch of Position: 2000.0 Radial Velocity: +18.22 km/sec	V=9.87+/-0.05 U-MAG=12.56+/-0.05, TYPE=M3.5V, F-LINE(2796)=1.5+/-0.4E-13, W-LINE(2796)=0.3, F-LINE(1216)=1.1+/-0.3E-13, W-LINE(1216)=0.9	Reference Frame: ICRS				
	<i>Comments:</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.100 8966)	(4) GJ273	STIS/CCD, ACQ, F28X500II	MIRROR		GS ACQ SCENARI O BASE1BE		20 Secs (20 Secs) [==>]	[1]
	2	(STIS.sp.10 09034)	(4) GJ273	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A		BUFFER-TIME=60 0		2200 Secs (2160 Secs) [==>2160.0 Secs]	[1]
	3	(STIS.sp.10 09034)	(4) GJ273	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A		BUFFER-TIME=60 0		2700 Secs (2813 Secs) [==>2813.0 Secs]	[2]



Proposal 15326 - Visit 05 - Characterizing the Winds of M Dwarf Stars

Wed Jan 02 19:01:01 GMT 2019

Visit	Proposal 15326, Visit 05, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: BETWEEN 30-MAY-2017:00:00:00 AND 24-DEC-2017:00:00:00; BETWEEN 30-MAY-2018:00:00:00 AND 24-DEC-2018:00:00:00; BETWEEN 30-MAY-2019:00:00:00 AND 24-DEC-2019:00:00:00; BETWEEN 30-MAY-2020:00:00:00 AND 24-DEC-2020:00:00:00									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(6)	GJ205 Alt Name1: HD36395	RA: 05 31 27.3960 (82.8641500d) Dec: -03 40 38.02 (-3.67723d) Equinox: J2000	Proper Motion RA: 761.86 mas/yr Proper Motion Dec: -2093.60 mas/yr Parallax: 0.17708" Epoch of Position: 2000.0 Radial Velocity: +8.67 km/sec	V=7.97+/-0.05 U-MAG=10.63+/-0.05, TYPE=M1.5V, F-LINE(2796)=3.0+/-0.8E-13, W-LINE(2796)=0.3, F-LINE(1216)=2.8+/-0.7E-13, W-LINE(1216)=0.9	Reference Frame: ICRS			
	<i>Comments:</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.100 8973)	(6) GJ205	STIS/CCD, ACQ, F28X500II	MIRROR		GS ACQ SCENARI O BASE1BE		5 Secs (5 Secs) [==>]	[1]
	2	(STIS.ta.100 8992)	(6) GJ205	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				0.3 Secs (0.3 Secs) [==>]	[1]
	3	(STIS.sp.10 09016)	(6) GJ205	STIS/NUV-MAMA, TIME-TAG, 0.2X0.09	E230H 2713 A	BUFFER-TIME=60 0			1700 Secs (1673 Secs) [==>1673.0 Secs]	[1]
	4	(STIS.sp.10 09032)	(6) GJ205	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=60 0			2700 Secs (2810 Secs) [==>2810.0 Secs]	[2]



Proposal 15326 - Visit 04 - Characterizing the Winds of M Dwarf Stars

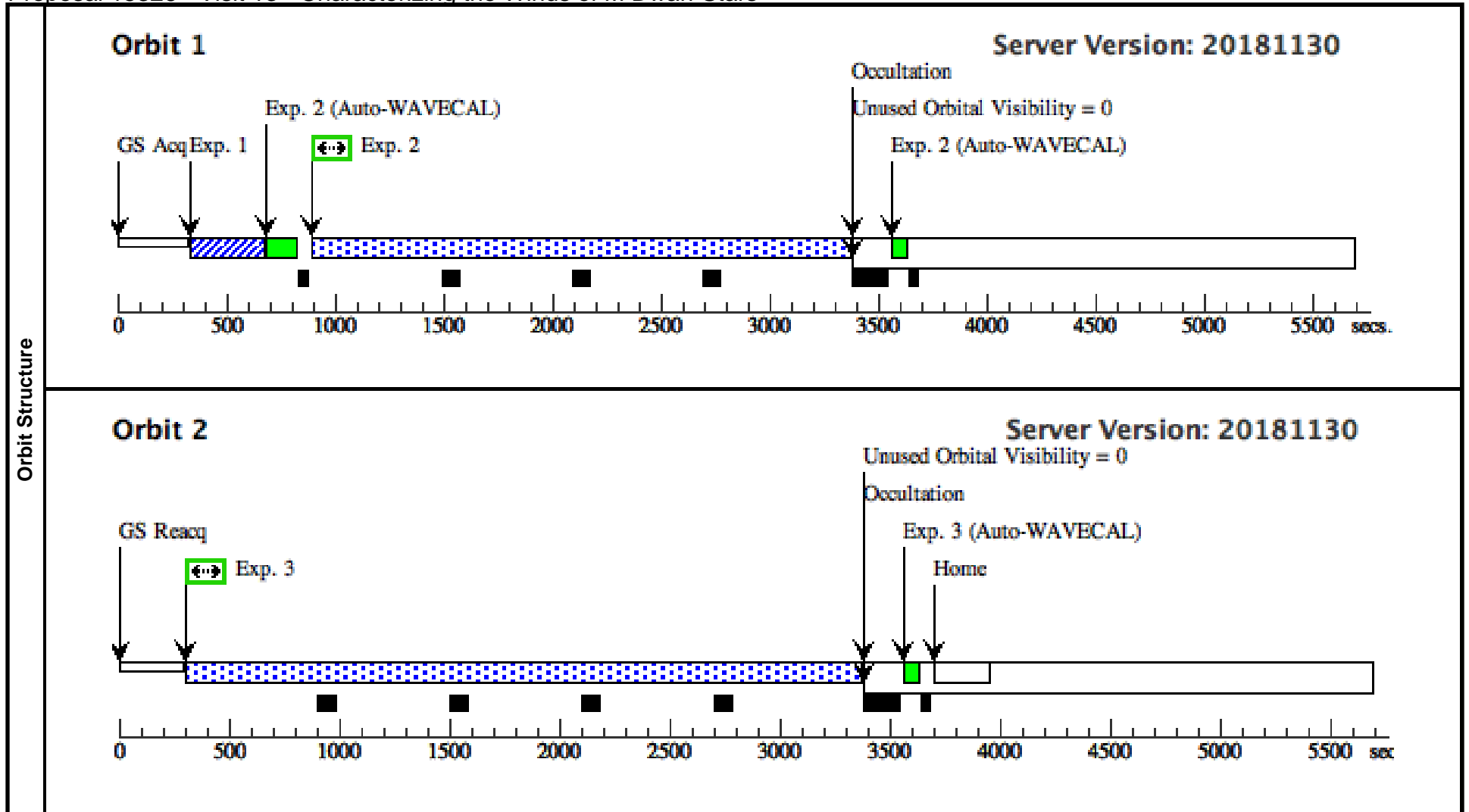
Wed Jan 02 19:01:01 GMT 2019

Visit	Proposal 15326, Visit 04, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(5)	GJ860A	RA: 22 28 0.4200 (337.0017500d) Dec: +57 41 49.30 (57.69703d) Equinox: J2000	Proper Motion RA: -870.23 mas/yr Proper Motion Dec: -471.10 mas/yr Parallax: 0.24952" Epoch of Position: 1991.25 Radial Velocity: -28 km/sec	V=9.80+/-0.10 U-MAG=12.52+/-0.10, TYPE=M3V, F-LINE(2796)=3.4+/-0.9E-13, W-LINE(2796)=0.3, F-LINE(1216)=3.7+/-0.9E-13, W-LINE(1216)=0.9	Reference Frame: ICRS			
	<i>Comments: GJ 860 is a close binary (M3+M4) with an orbital period of 44.67 yr, and with the companion (GJ 860B) only ~1.6" away in 2017. Orbital motion will make the coordinates more uncertain. SIMBAD coordinates and V magnitudes are clearly wrong due to the confusion of the two stars, so numbers are taken directly from Hipparcos, which are epoch 1991.25.</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.100 8970)	(5) GJ860A	STIS/CCD, ACQ, F28X500II	MIRROR				20 Secs (20 Secs) [==>]	[1]
	2	(STIS.ta.100 8989)	(5) GJ860A	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				2.0 Secs (2 Secs) [==>]	[1]
	3	(STIS.sp.10 09017)	(5) GJ860A	STIS/NUV-MAMA, TIME-TAG, 0.2X0.09	E230H 2713 A	BUFFER-TIME=60 0			1800 Secs (1879 Secs) [==>1879.0 Secs]	[1]
	4	(STIS.sp.10 09033)	(5) GJ860A	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=60 0			2700 Secs (3057 Secs) [==>3057.0 Secs]	[2]

Proposal 15326 - Visit 13 - Characterizing the Winds of M Dwarf Stars

Wed Jan 02 19:01:01 GMT 2019

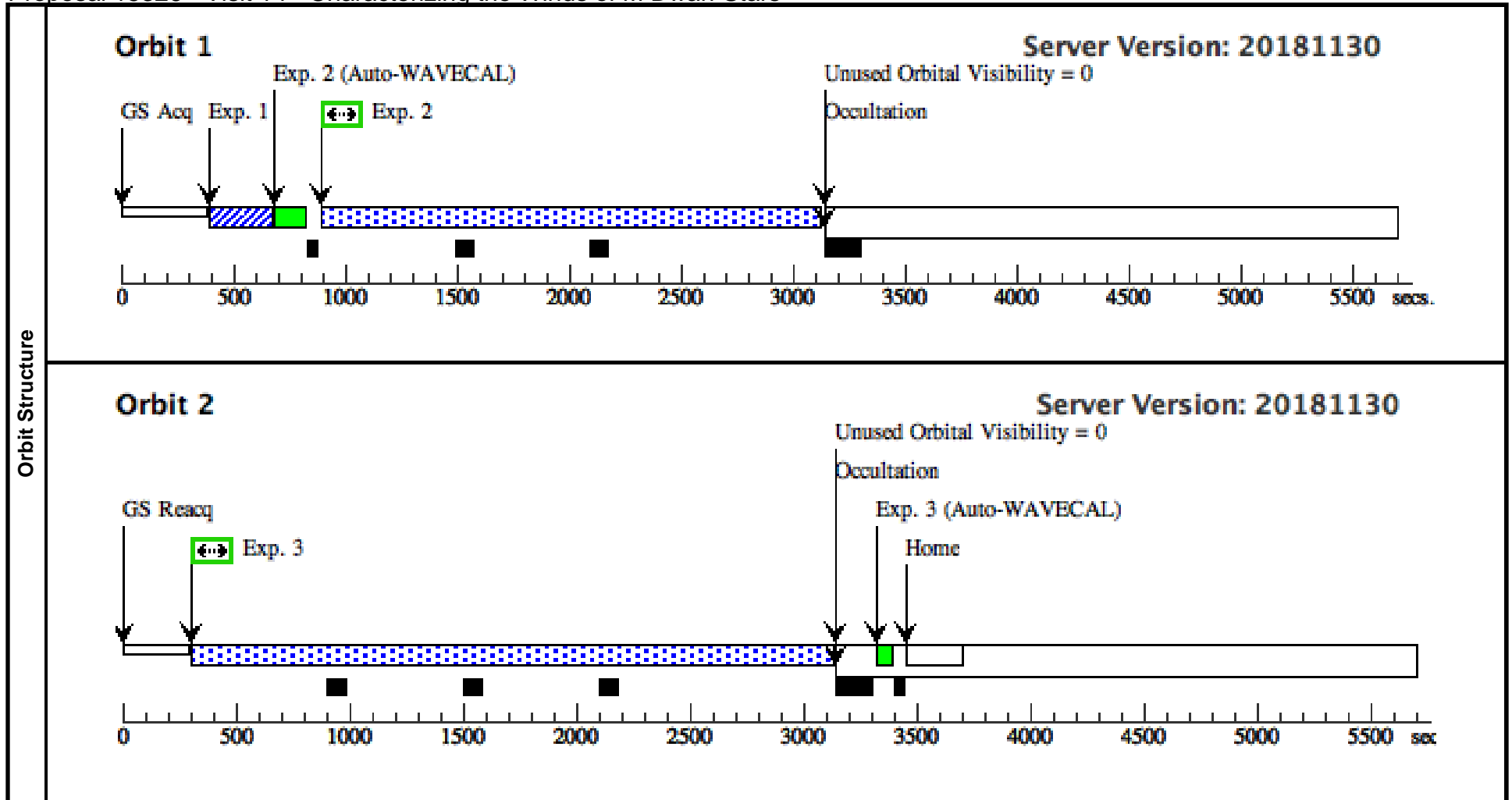
Visit		Proposal 15326, Visit 13, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: (none)																																																																											
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Proposal 15326 - Visit 14 - Characterizing the Winds of M Dwarf Stars

Wed Jan 02 19:01:01 GMT 2019

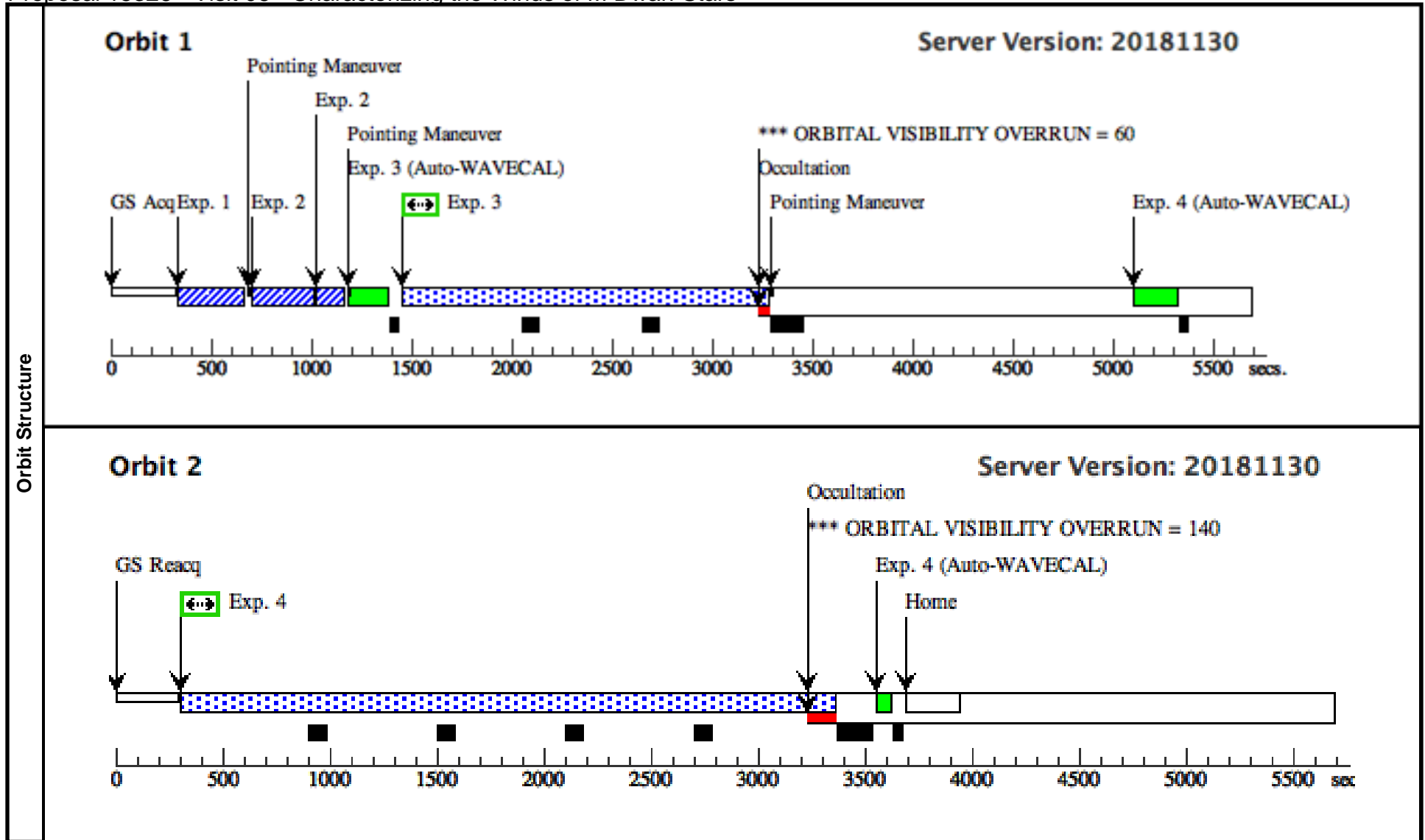
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	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(6)	GJ205	RA: 05 31 27.3960 (82.8641500d) Alt Name1: HD36395 Dec: -03 40 38.02 (-3.67723d) Equinox: J2000	Proper Motion RA: 761.86 mas/yr Proper Motion Dec: -2093.60 mas/yr Parallax: 0.17708" Epoch of Position: 2000.0 Radial Velocity: +8.67 km/sec	V=7.97+/-0.05 U-MAG=10.63+/-0.05, TYPE=M1.5V, F-LINE(2796)=3.0+/-0.8E-13, W-LINE(2796)=0.3, F-LINE(1216)=2.8+/-0.7E-13, W-LINE(1216)=0.9	Reference Frame: ICRS			
	<i>Comments:</i> Category=STAR Description=[M V-IV] Extended=NO									
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	1	(STIS.ta.100 8973)	(6) GJ205	STIS/CCD, ACQ, F28X500II	MIRROR		GS ACQ SCENARI O BASE1BE		5 Secs (5 Secs) [==>]	[1]
	2	(STIS.sp.10 09032)	(6) GJ205	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=60 0			2300 Secs (2217 Secs) [==>2217.0 Secs]	[1]
	3	(STIS.sp.10 09032)	(6) GJ205	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=60 0			2700 Secs (2810 Secs) [==>2810.0 Secs]	[2]



Proposal 15326 - Visit 06 - Characterizing the Winds of M Dwarf Stars

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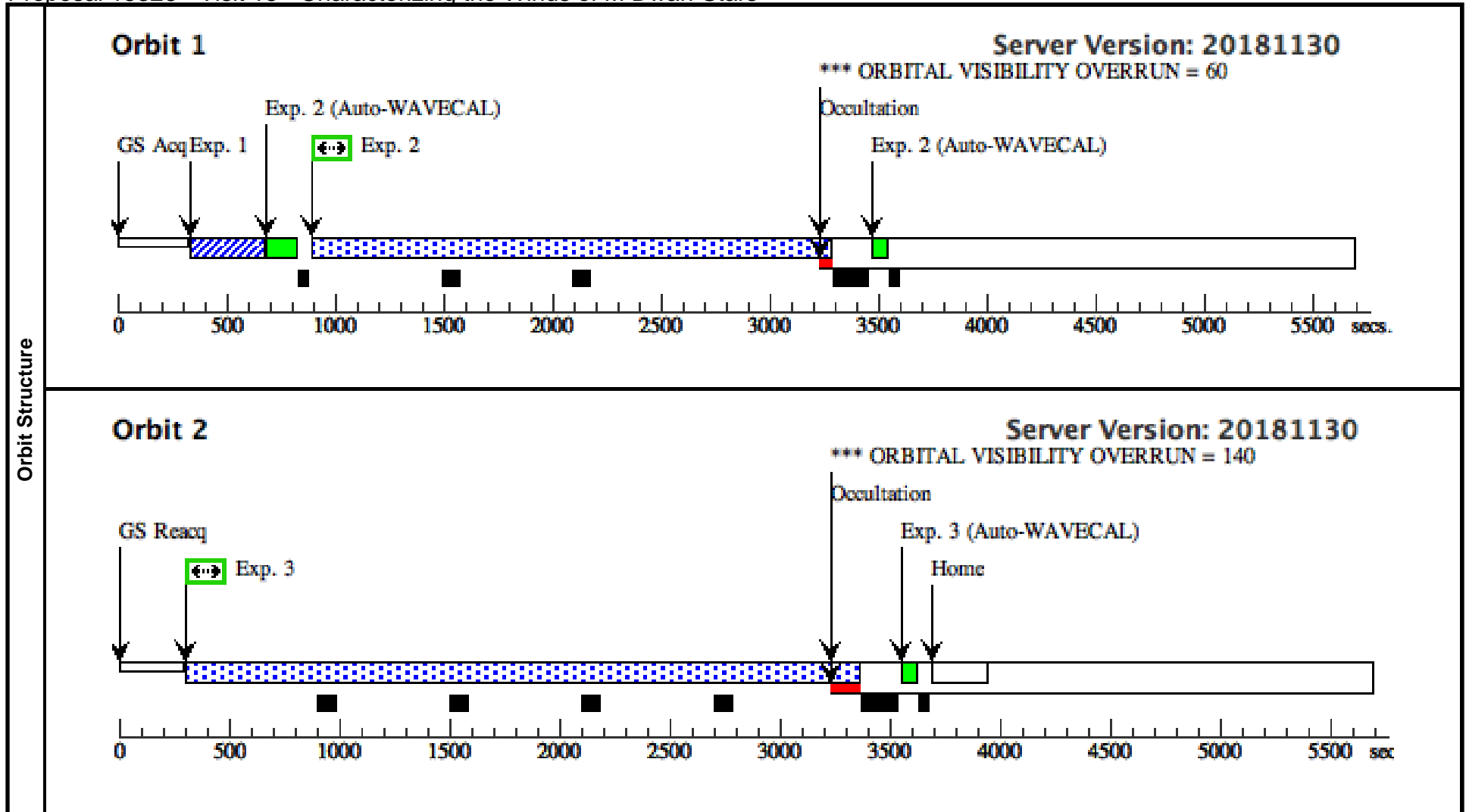
Visit	Proposal 15326, Visit 06, completed Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: BETWEEN 04-MAY-2017:00:00:00 AND 08-DEC-2017:00:00:00; BETWEEN 04-MAY-2018:00:00:00 AND 08-DEC-2018:00:00:00																																																											
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Proposal 15326 - Visit 15 - Characterizing the Winds of M Dwarf Stars

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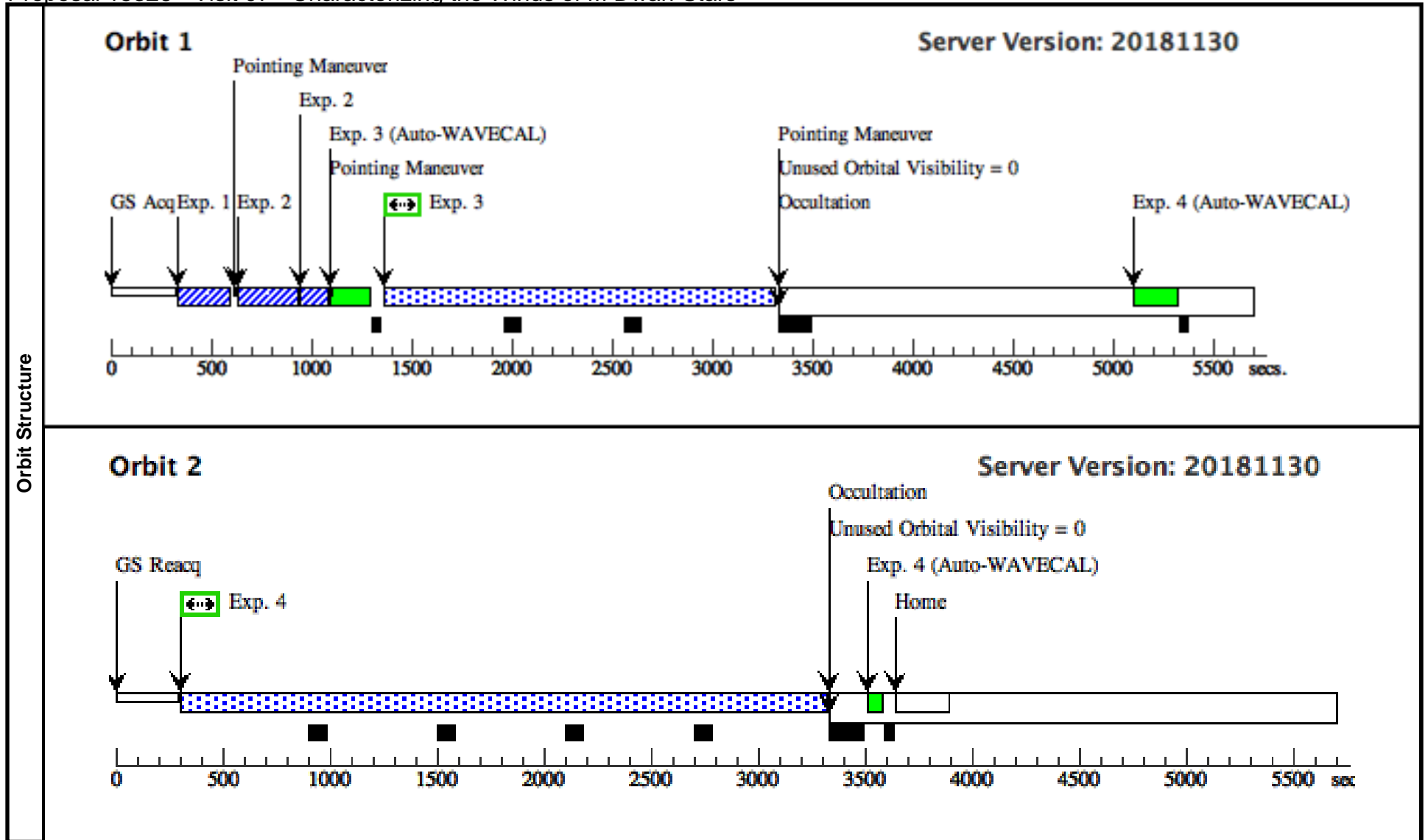
Visit	Proposal 15326, Visit 15, completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: BETWEEN 04-MAY-2017:00:00:00 AND 08-DEC-2017:00:00:00; BETWEEN 04-MAY-2018:00:00:00 AND 08-DEC-2018:00:00:00																																																																											
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Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(STIS.ta.100 8977)</td> <td>(7) GJ588</td> <td>STIS/CCD, ACQ, F28X500II</td> <td>MIRROR</td> <td></td> <td></td> <td></td> <td>20 Secs (20 Secs)</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>[==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(STIS.sp.10 09031)</td> <td>(7) GJ588</td> <td>STIS/FUV-MAMA, TIME-TAG, 0.2X0.2</td> <td>E140M 1425 A</td> <td>BUFFER-TIME=60 0</td> <td></td> <td></td> <td>2300 Secs (2373 Secs)</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>[==>2373.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>(STIS.sp.10 09031)</td> <td>(7) GJ588</td> <td>STIS/FUV-MAMA, TIME-TAG, 0.2X0.2</td> <td>E140M 1425 A</td> <td>BUFFER-TIME=60 0</td> <td></td> <td></td> <td>2700 Secs (3046 Secs)</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>[==>3046.0 Secs]</td> <td>[2]</td> </tr> </tbody> </table>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	(STIS.ta.100 8977)	(7) GJ588	STIS/CCD, ACQ, F28X500II	MIRROR				20 Secs (20 Secs)										[==>]	[1]	2	(STIS.sp.10 09031)	(7) GJ588	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=60 0			2300 Secs (2373 Secs)										[==>2373.0 Secs]	[1]	3	(STIS.sp.10 09031)	(7) GJ588	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=60 0			2700 Secs (3046 Secs)										[==>3046.0 Secs]	[2]					
	#	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 15326 - Visit 07 - Characterizing the Winds of M Dwarf Stars

Wed Jan 02 19:01:02 GMT 2019

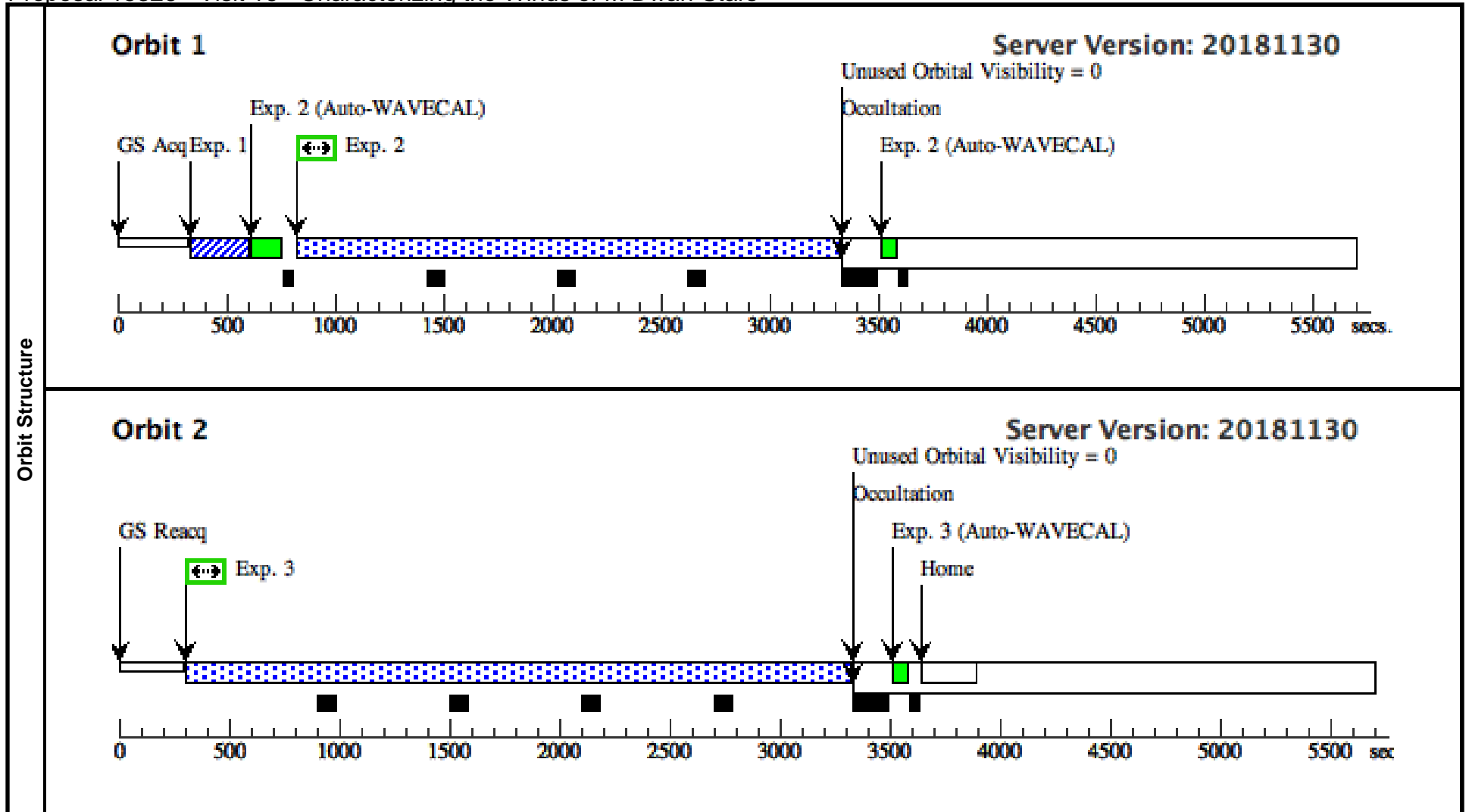
Visit	Proposal 15326, Visit 07, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: BETWEEN 06-JUN-2017:00:00:00 AND 12-MAR-2018:00:00:00; BETWEEN 06-JUN-2018:00:00:00 AND 12-MAR-2019:00:00:00; BETWEEN 06-JUN-2019:00:00:00 AND 12-MAR-2020:00:00:00; BETWEEN 06-JUN-2020:00:00:00 AND 12-MAR-2021:00:00:00									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(9)	GJ338A Alt Name1: HD79210	RA: 09 14 22.7920 (138.5949667d) Dec: +52 41 11.72 (52.68659d) Equinox: J2000	Proper Motion RA: -1535.72 mas/yr Proper Motion Dec: -576.59 mas/yr Parallax: 0.17208" Epoch of Position: 2000.0 Radial Velocity: +11.14 km/sec	V=7.63+/-0.05 U-MAG=10.26+/-0.05, TYPE=M0V, F-LINE(2796)=3.6+/-0.9E-13, W-LINE(2796)=0.3, F-LINE(1216)=3.4+/-0.9E-13, W-LINE(1216)=0.9	Reference Frame: ICRS			
	<i>Comments: See individual measurements in SIMBAD for U-mag.</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.100 8980)	(9) GJ338A	STIS/CCD, ACQ, F28X500II	MIRROR				2 Secs (2 Secs) [==>]	[1]
	2	(STIS.ta.100 9002)	(9) GJ338A	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				0.2 Secs (0.2 Secs) [==>]	[1]
	3	(STIS.sp.10 09022)	(9) GJ338A	STIS/NUV-MAMA, TIME-TAG, 0.2X0.09	E230H 2713 A		BUFFER-TIME=60 0		1800 Secs (1939 Secs) [==>1939.0 Secs]	[1]
	4	(STIS.sp.10 09030)	(9) GJ338A	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A		BUFFER-TIME=60 0		2700 Secs (3001 Secs) [==>3001.0 Secs]	[2]



Proposal 15326 - Visit 16 - Characterizing the Winds of M Dwarf Stars

Wed Jan 02 19:01:02 GMT 2019

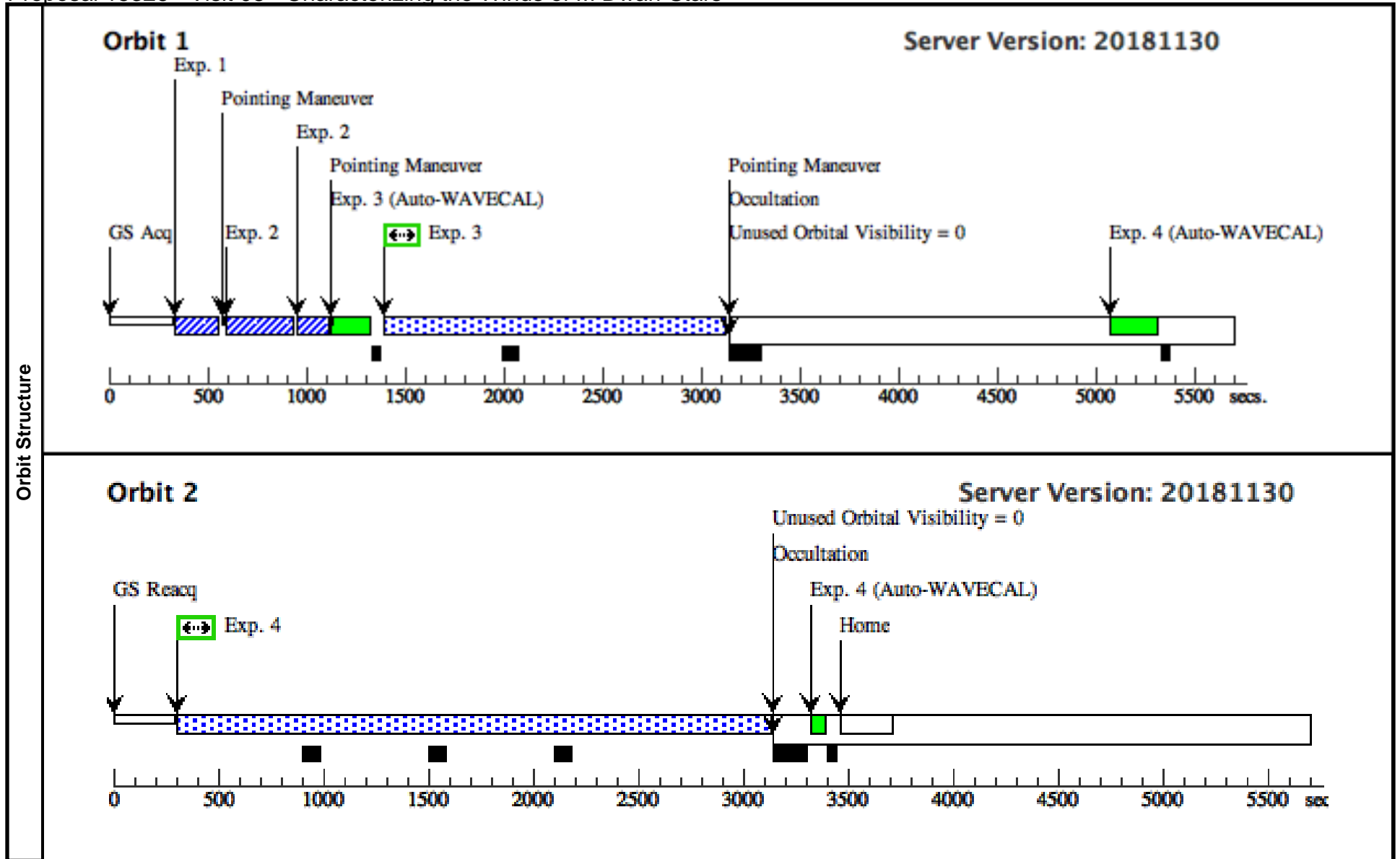
Visit	Proposal 15326, Visit 16, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: BETWEEN 06-JUN-2017:00:00:00 AND 12-MAR-2018:00:00:00; BETWEEN 06-JUN-2018:00:00:00 AND 12-MAR-2019:00:00:00; BETWEEN 06-JUN-2019:00:00:00 AND 12-MAR-2020:00:00:00; BETWEEN 06-JUN-2020:00:00:00 AND 12-MAR-2021:00:00:00									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(9)	GJ338A Alt Name1: HD79210	RA: 09 14 22.7920 (138.5949667d) Dec: +52 41 11.72 (52.68659d) Equinox: J2000	Proper Motion RA: -1535.72 mas/yr Proper Motion Dec: -576.59 mas/yr Parallax: 0.17208" Epoch of Position: 2000.0 Radial Velocity: +11.14 km/sec	V=7.63+/-0.05 U-MAG=10.26+/-0.05, TYPE=M0V, F-LINE(2796)=3.6+/-0.9E-13, W-LINE(2796)=0.3, F-LINE(1216)=3.4+/-0.9E-13, W-LINE(1216)=0.9	Reference Frame: ICRS			
	<i>Comments: See individual measurements in SIMBAD for U-mag.</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.100 8980)	(9) GJ338A	STIS/CCD, ACQ, F28X500II	MIRROR				2 Secs (2 Secs) [==>]	[1]
	2	(STIS.sp.10 09030)	(9) GJ338A	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=60 0			2300 Secs (2480 Secs) [==>2480.0 Secs]	[1]
	3	(STIS.sp.10 09030)	(9) GJ338A	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=60 0			2700 Secs (3001 Secs) [==>3001.0 Secs]	[2]



Proposal 15326 - Visit 08 - Characterizing the Winds of M Dwarf Stars

Wed Jan 02 19:01:02 GMT 2019

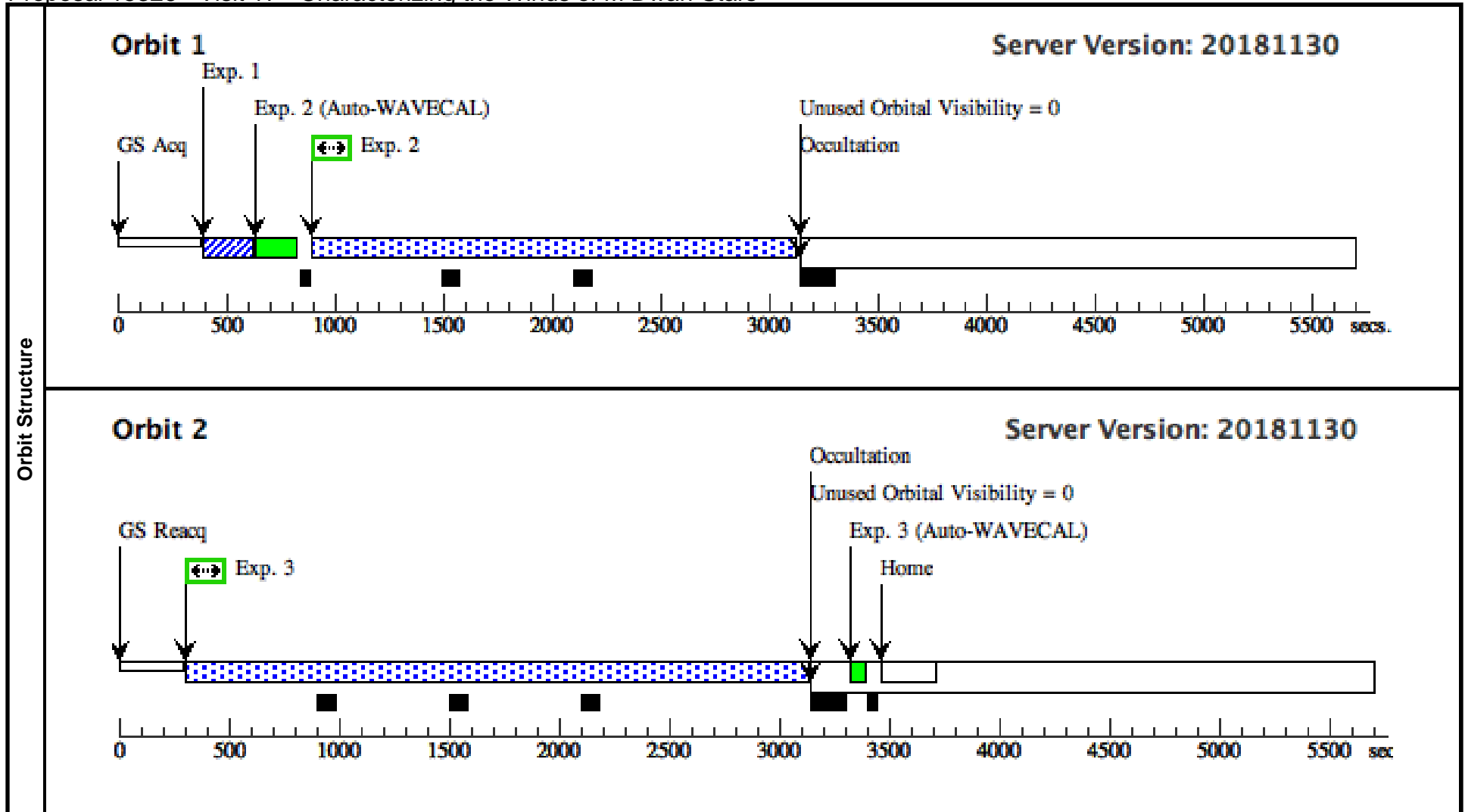
Visit	Proposal 15326, Visit 08, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: BETWEEN 25-JUN-2017:00:00:00 AND 09-FEB-2018:00:00:00; BETWEEN 25-JUN-2018:00:00:00 AND 09-FEB-2019:00:00:00; BETWEEN 25-JUN-2019:00:00:00 AND 09-FEB-2020:00:00:00; BETWEEN 25-JUN-2020:00:00:00 AND 09-FEB-2021:00:00:00																																																																																																														
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Proposal 15326 - Visit 17 - Characterizing the Winds of M Dwarf Stars

Wed Jan 02 19:01:02 GMT 2019

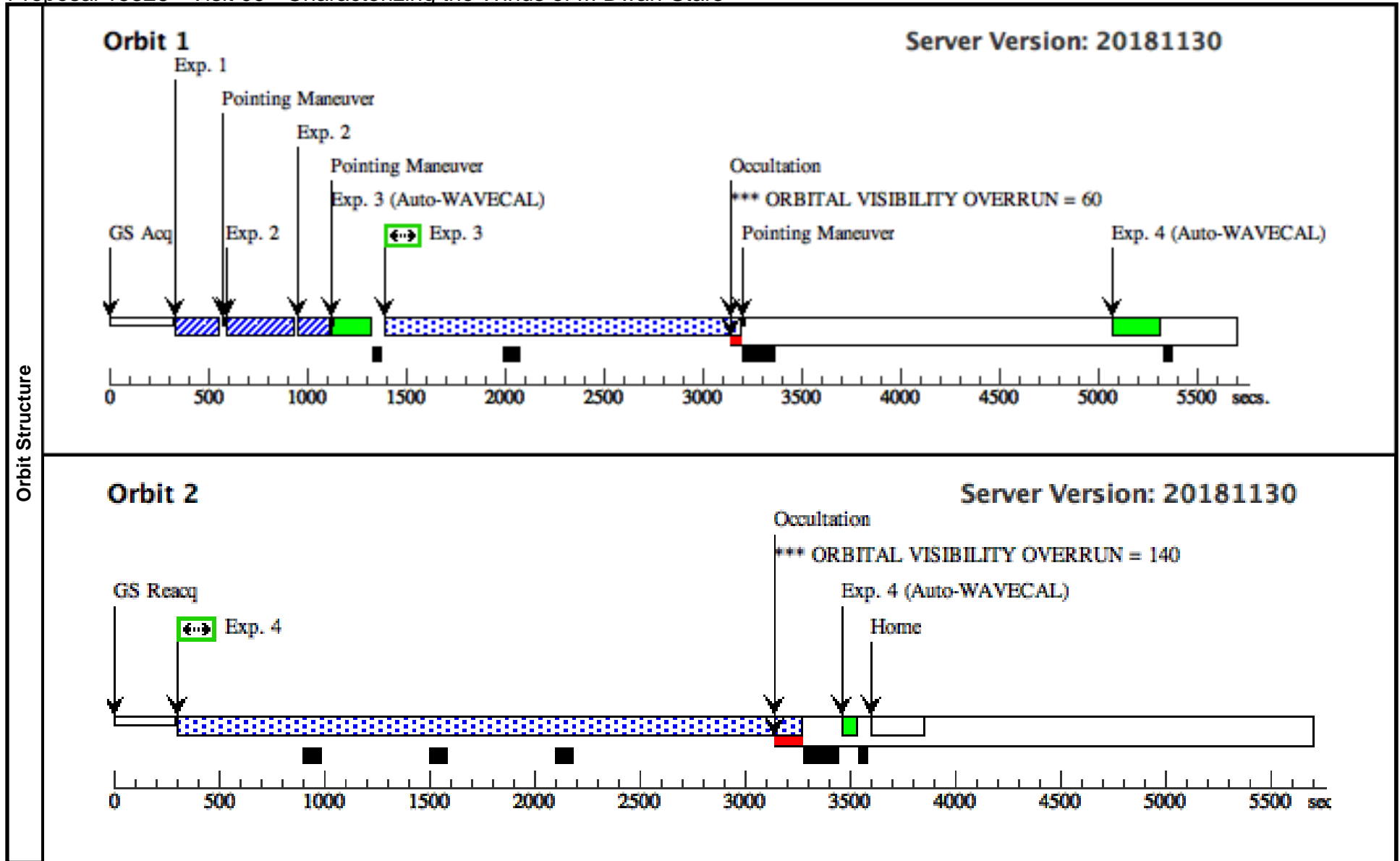
Visit	Proposal 15326, Visit 17, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: BETWEEN 25-JUN-2017:00:00:00 AND 09-FEB-2018:00:00:00; BETWEEN 25-JUN-2018:00:00:00 AND 09-FEB-2019:00:00:00; BETWEEN 25-JUN-2019:00:00:00 AND 09-FEB-2020:00:00:00; BETWEEN 25-JUN-2020:00:00:00 AND 09-FEB-2021:00:00:00									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(8)	GJ285 Alt Name1: YZ-CMI	RA: 07 44 40.1740 (116.1673917d) Dec: +03 33 8.84 (3.55246d) Equinox: J2000	Proper Motion RA: -345.25 mas/yr Proper Motion Dec: -450.70 mas/yr Parallax: 0.16788" Epoch of Position: 2000.0 Radial Velocity: +26.53 km/sec	V= 11.23+/-0.05 U-MAG=13.76+/-0.05, TYPE=M4.5V, F-LINE(2796)=2.5+/-0.6E-13, W-LINE(2796)=0.3, F-LINE(1216)=3.5+/-0.9E-13, W-LINE(1216)=0.9	Reference Frame: ICRS			
	<i>Comments: Active flare star.</i> <i>Category=STAR</i> <i>Description=[M V-IV]</i> <i>Extended=NO</i>									
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 8983)	(8) GJ285	STIS/CCD, ACQ, F28X50LP	MIRROR		GS ACQ SCENARI O BASE1BE		0.1 Secs (0.1 Secs) [==>]	[1]
	2	(STIS.sp.10 09029)	(8) GJ285	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140H 1271 A	BUFFER-TIME=60 0			1500 Secs (2214 Secs) [==>2214.0 Secs]	[1]
	3	(STIS.sp.10 09029)	(8) GJ285	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140H 1271 A	BUFFER-TIME=60 0			2700 Secs (2810 Secs) [==>2810.0 Secs]	[2]



Proposal 15326 - Visit 09 - Characterizing the Winds of M Dwarf Stars

Wed Jan 02 19:01:02 GMT 2019

Visit	Proposal 15326, Visit 09, completed Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: BETWEEN 25-MAY-2017:00:00:00 AND 12-DEC-2017:00:00:00; BETWEEN 25-MAY-2018:00:00:00 AND 12-DEC-2018:00:00:00									
	(Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	GJ644A Alt Name1: HD152751 Alt Name2: WOLF-630A	RA: 16 55 28.7580 (253.8698250d) Dec: -08 20 10.79 (-8.33633d) Equinox: J2000	Proper Motion RA: -825.84 mas/yr Proper Motion Dec: -873.53 mas/yr Parallax: 0.16141" Epoch of Position: 2000.0 Radial Velocity: +14.89 km/sec	V=10.69+/-0.05 U-MAG=13.42+/-0.05, TYPE=M3V, F-LINE(2796)=5.1+/-1.3E-13, W-LINE(2796)=0.3, F-LINE(1216)=7.7+/-1.9E-13, W-LINE(1216)=0.9	Reference Frame: ICRS				
Comments: GJ 644 is a messy system consisting of 5 M dwarfs: GJ 644A (M3), GJ 644B a very nearby (~0.2") spectroscopic binary (M4+M4), GJ 643 a distant (~72") M3.5 star, and GJ 644C a very distant (~220") M7 star. SIMBAD magnitudes can't be trusted due to multiplicity. Actual magnitudes found in Mazeh et al. (2001). 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.100 8984)	(10) GJ644A	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) [==>]	[1]
2	(STIS.ta.100 9012)	(10) GJ644A	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				3.0 Secs (3 Secs) [==>]	[1]	
3	(STIS.sp.10 09027)	(10) GJ644A	STIS/NUV-MAMA, TIME-TAG, 0.2X0.09	E230H 2713 A	BUFFER-TIME=60 0			1300 Secs (1782 Secs) [==>1782.0 Secs]	[1]	
Comments: For brightest flare calculation, see STIS.sp.1009289. It's close, but not over MAMA Bright limit.										
4	(STIS.sp.10 09028)	(10) GJ644A	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140H 1271 A	BUFFER-TIME=60 0			2700 Secs (2953 Secs) [==>2953.0 Secs]	[2]	
Comments: Strong flare calculation in STIS.sp.1009318. 75 cts/s is peak pixel ct. rate, right at the 75 cts/s limit.										



Proposal 15326 - Visit 18 - Characterizing the Winds of M Dwarf Stars

Wed Jan 02 19:01:02 GMT 2019

Visit	Proposal 15326, Visit 18, completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: BETWEEN 25-MAY-2017:00:00:00 AND 12-DEC-2017:00:00:00; BETWEEN 25-MAY-2018:00:00:00 AND 12-DEC-2018:00:00:00																																																																															
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