



# 15189 - Post Common Envelope Binaries as probes of M dwarf stellar wind and habitable zone radiation environments

Cycle: 25, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

## INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
<b>Dr. David John Wilson (PI) (ESA Member) (Contact)</b>	<b>The University of Warwick</b>	<b>d.j.wilson.1@warwick.ac.uk</b>
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Dr. Jeremy J. Drake (CoI) (AdminUSPI)	Smithsonian Institution Astrophysical Observatory	jdrake@cfa.harvard.edu
Ms. Odette Fabiola Toloza Castillo (CoI) (ESA Member)	The University of Warwick	o.f.c.toloza@warwick.ac.uk

## 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) V-CC-CET	COS/FUV	1	26-Feb-2018 16:00:33.0	yes
51	(1) V-CC-CET	COS/FUV	1	26-Feb-2018 16:00:35.0	yes
03	(2) V-UZ-SEX	COS/FUV	1	26-Feb-2018 16:00:36.0	yes
04	(3) V-LM-COM	COS/FUV	1	26-Feb-2018 16:00:38.0	yes
05	(4) V-EG-UMA	COS/FUV	1	26-Feb-2018 16:00:39.0	yes
06	(5) WD-0137-349	COS/FUV	1	26-Feb-2018 16:00:40.0	yes
07	(6) EGGR-38	COS/FUV	1	26-Feb-2018 16:00:41.0	yes
08	(8) WD-1339+606	COS/FUV	1	26-Feb-2018 16:00:42.0	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>
09	(9) WD-1436-216	COS/FUV	1	26-Feb-2018 16:00:43.0	yes
10	(10) WD-1458+171	COS/FUV	1	26-Feb-2018 16:00:44.0	yes
11	(11) WD-1504+546	COS/FUV	1	26-Feb-2018 16:00:45.0	yes
12	(12) WD-2317+268	COS/FUV	1	26-Feb-2018 16:00:46.0	yes
02	(7) V-V727-CAR	STIS/CCD STIS/FUV-MAMA	1	26-Feb-2018 16:00:47.0	yes

13 Total Orbits Used

## ABSTRACT

M dwarf stars are promising targets in the search for extrasolar habitable planets, as their small size and close-in habitable zones make the detection of Earth-analog planets easier than at Solar-type stars. However, the effects of the high stellar activity of M dwarf hosts has uncertain effects on such planets, and may render them uninhabitable. Studying stellar activity at M dwarfs is hindered by a lack of measurements of high-energy radiation, flare activity and, in particular, stellar wind rates. We propose to rectify this by observing a sample of Post Common Envelope Binaries (PCEBs) with HST and XMM-Newton. PCEBs consist of an M dwarf with a white dwarf companion, which experiences the same stellar wind and radiation environment as a close-in planet. The stellar wind of the M dwarf accretes onto the otherwise pure hydrogen atmosphere white dwarf, producing metal lines detectable with ultraviolet spectroscopy. The metal lines can be used to measure accretion rates onto the white dwarf, from which we can accurately infer the stellar wind mass loss rate of the M dwarf, along with abundances of key elements. Simultaneous observations with XMM-Newton will probe X-ray flare occurrence rate and strength, in addition to coronal temperatures. Performing these measurements over twelve PCEBs will provide a sample of M dwarf stellar wind strengths, flare occurrence and X-ray/UV activity that will finally shed light on the true habitability of planets around small stars.

## OBSERVING DESCRIPTION

The scientific goal of the proposed observations is to obtain high-quality high-resolution FUV spectroscopy of the white dwarfs in thirteen post-common envelope binaries.

Instrument setup: We will observe all stars using COS with the G130M grating with the new central wavelength of 1223Å, with the exception of BPM6502, which is too bright for COS, and will be observed using STIS with the E140M grating.

## Proposal 15189 (STScI Edit Number: 1, Created: Monday, February 26, 2018 4:00:49 PM EST) - Overview

We will use all four FP-POS positions to minimize the impact of fixed pattern noise. For the COS observations, the acquisitions will be carried out in dispersed light, the STIS observation will be acquired with the STIS CCD and the F28x50LP long pass filter. We should achieve a signal-to-noise ratio of 25-35 in a single-orbit visit.

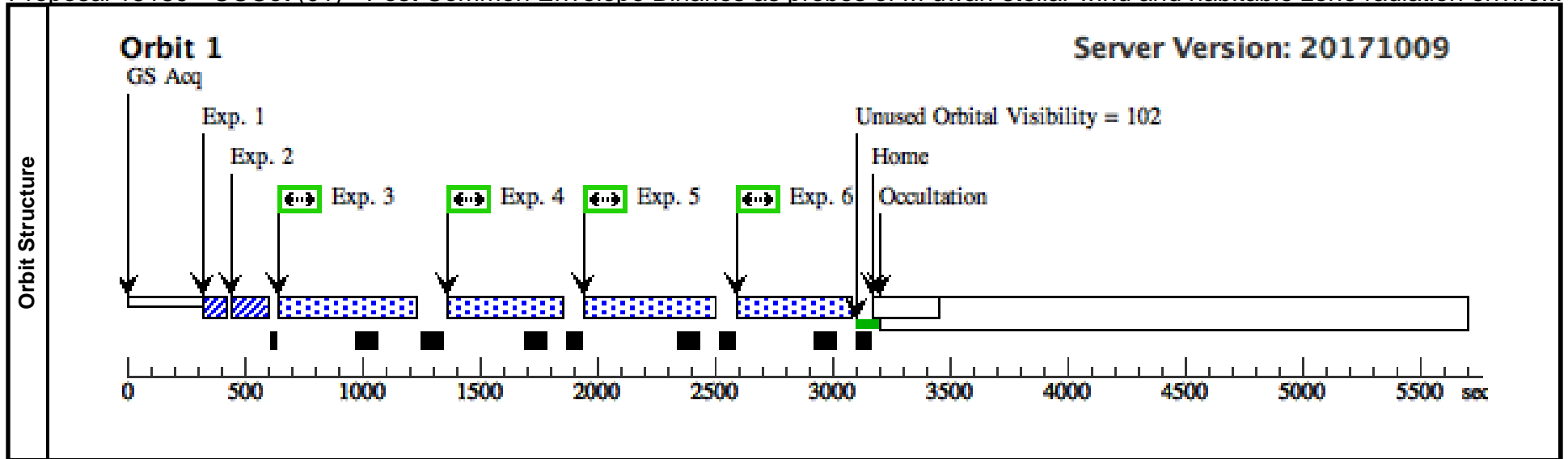
Since submitting the proposal, we have discovered that target WD1504+546 is an eclipsing binary. If possible, the observation should not take place during the eclipse, as little to no UV flux would be detected. Full details and the ephemeris are provided in Visit 11.

Each target will also be observed simultaneously with XMM-Newton.

Proposal 15189 - CCCet (01) - Post Common Envelope Binaries as probes of M dwarf stellar wind and habitable zone radiation enviro...

Mon Feb 26 21:00:49 GMT 2018

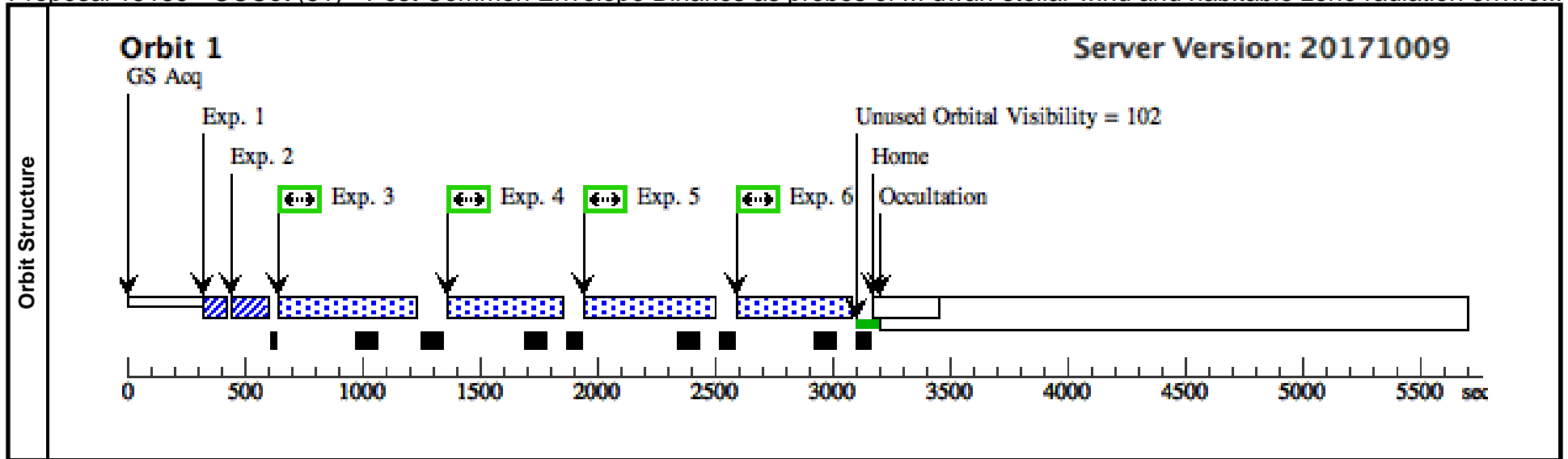
<b>Visit</b>	<b>Proposal 15189, CCCet (01), failed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV Special Requirements: (none)									
	(CCet (01)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (CCet (01)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(1)	V-CC-CET	RA: 03 10 54.9862 (47.7291092d) Dec: +09 49 25.75 (9.82382d) Equinox: J2000	Proper Motion RA: 40.3 mas/yr Proper Motion Dec: -90.6 mas/yr Epoch of Position: 2000	V=15.275+/-0.243 fuv_mag: 14.03 nuv_mag: 14.5 1	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[DA, M V-IV] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	ACQ/Spec (COS.sa.101 2489)	(1) V-CC-CET	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				1 Secs (1 Secs) [==>]	[1]
	2	ACQ/Spec (COS.sa.101 2489)	(1) V-CC-CET	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	STEP-SIZE=0.9; NUM-POS=5; CENTER=DEF			1 Secs (1 Secs) [==>]	[1]
	3	CCCET_exp (COS.sp.102 7552)	(1) V-CC-CET	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 1; FP-POS=3; FLASH=YES			400 Secs (545 Secs) [==>545.0 Secs ]	[1]
	4	CCCET_exp (COS.sp.102 7553)	(1) V-CC-CET	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 1; FP-POS=4; FLASH=YES			400 Secs (440 Secs) [==>440.0 Secs ]	[1]
	5	CCCET_exp (COS.sp.102 7553)	(1) V-CC-CET	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 1; FP-POS=3; FLASH=YES			400 Secs (440 Secs) [==>440.0 Secs ]	[1]
	6	CCCET_exp (COS.sp.102 7553)	(1) V-CC-CET	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 1; FP-POS=4; FLASH=YES			400 Secs (440 Secs) [==>440.0 Secs ]	[1]



Proposal 15189 - CCCet (51) - Post Common Envelope Binaries as probes of M dwarf stellar wind and habitable zone radiation enviro...

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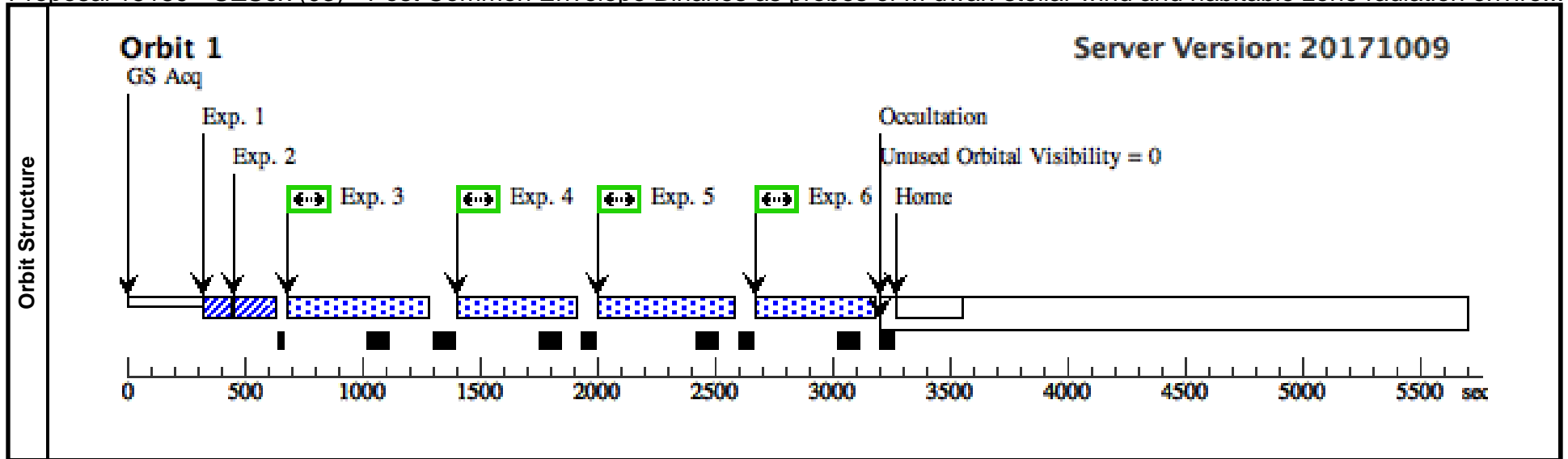
<b>Visit</b>	<b>Proposal 15189, CCCet (51)</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV Special Requirements: (none)									
	(CCet (51)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (CCet (51)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS									
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	(1)	V-CC-CET	RA: 03 10 54.9862 (47.7291092d) Dec: +09 49 25.75 (9.82382d) Equinox: J2000	Proper Motion RA: 40.3 mas/yr Proper Motion Dec: -90.6 mas/yr Epoch of Position: 2000	V=15.275+/-0.243 fuv_mag: 14.03 nuv_mag: 14.5 1	Reference Frame: ICRS				
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	1	ACQ/Spec (COS.sa.101 2489)	(1) V-CC-CET	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				1 Secs (1 Secs) [==>]	[1]
	2	ACQ/Spec (COS.sa.101 2489)	(1) V-CC-CET	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	STEP-SIZE=0.9; NUM-POS=5; CENTER=DEF			1 Secs (1 Secs) [==>]	[1]
	3	CCCET_exp (COS.sp.102 7552)	(1) V-CC-CET	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 1; FP-POS=3; FLASH=YES			400 Secs (545 Secs) [==>545.0 Secs ]	[1]
	4	CCCET_exp (COS.sp.102 7553)	(1) V-CC-CET	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 1; FP-POS=4; FLASH=YES			400 Secs (440 Secs) [==>440.0 Secs ]	[1]
	5	CCCET_exp (COS.sp.102 7553)	(1) V-CC-CET	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 1; FP-POS=3; FLASH=YES			400 Secs (440 Secs) [==>440.0 Secs ]	[1]
	6	CCCET_exp (COS.sp.102 7553)	(1) V-CC-CET	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 1; FP-POS=4; FLASH=YES			400 Secs (440 Secs) [==>440.0 Secs ]	[1]



Proposal 15189 - UZSex (03) - Post Common Envelope Binaries as probes of M dwarf stellar wind and habitable zone radiation enviro...

Mon Feb 26 21:00:49 GMT 2018

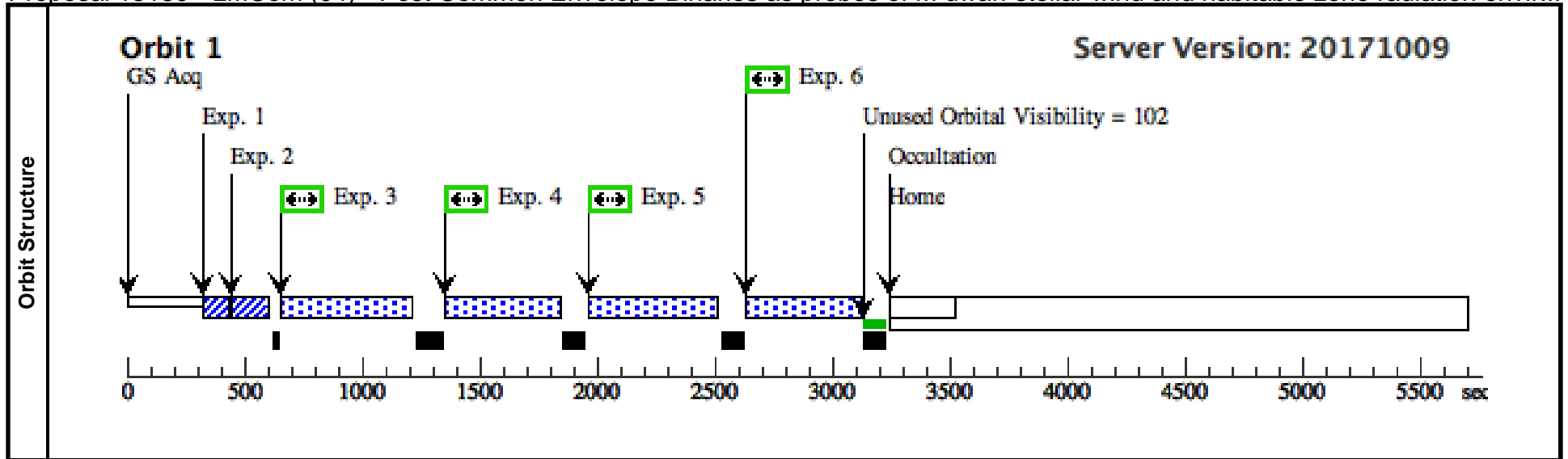
<b>Visit</b>	<b>Proposal 15189, UZSex (03), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV Special Requirements: (none)																																																																																															
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Proposal 15189 - LMCom (04) - Post Common Envelope Binaries as probes of M dwarf stellar wind and habitable zone radiation envir...

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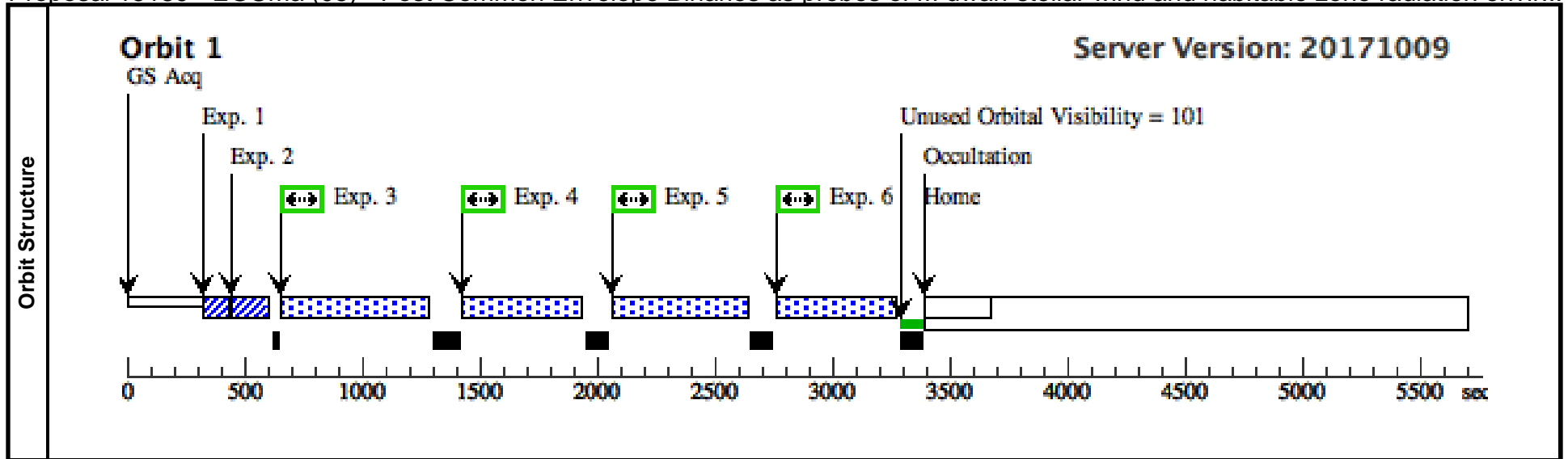
<b>Visit</b>	<b>Proposal 15189, LMCom (04), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV Special Requirements: (none)									
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	1	ACQ/Spec (COS.sa.101 2493)	(3) V-LM-COM	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				2 Secs (2 Secs) [==>]	[1]
	2	ACQ/Spec (COS.sa.101 2493)	(3) V-LM-COM	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	STEP-SIZE=0.9; NUM-POS=5; CENTER=DEF			2 Secs (2 Secs) [==>]	[1]
	3	LMcom_exp (COS.sp.102 7555)	(3) V-LM-COM	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=50 0; FP-POS=3; FLASH=YES			400 Secs (510 Secs) [==>510.0 Secs ]	[1]
	4	LMcom_exp (COS.sp.102 7556)	(3) V-LM-COM	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=50 0; FP-POS=4; FLASH=YES			400 Secs (435 Secs) [==>435.0 Secs ]	[1]
	5	LMcom_exp (COS.sp.102 7556)	(3) V-LM-COM	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=50 0; FP-POS=3; FLASH=YES			400 Secs (435 Secs) [==>435.0 Secs ]	[1]
	6	LMcom_exp (COS.sp.102 7556)	(3) V-LM-COM	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=50 0; FP-POS=4; FLASH=YES			400 Secs (435 Secs) [==>435.0 Secs ]	[1]



Proposal 15189 - EGUma (05) - Post Common Envelope Binaries as probes of M dwarf stellar wind and habitable zone radiation envir...

Mon Feb 26 21:00:49 GMT 2018

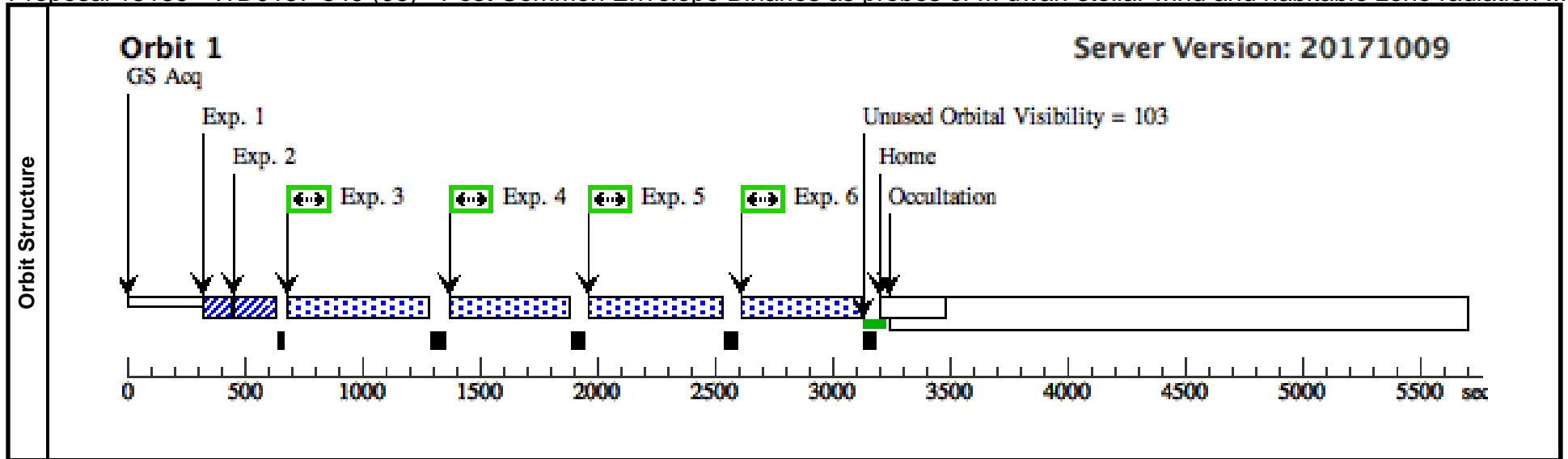
<b>Visit</b>	<b>Proposal 15189, EGUma (05), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV Special Requirements: (none)									
	(EGUma (05)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (EGUma (05)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(4)	V-EG-UMA	RA: 12 15 44.0995 (183.9337479d) Dec: +52 31 1.25 (52.51701d) Equinox: J2000	Proper Motion RA: -74.28 mas/yr Proper Motion Dec: -127.74 mas/yr Epoch of Position: 2000	V=13.23+/-0.053 fuv_mag: n/a nuv_mag: 14.32	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[DA, M V-IV] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	ACQ/Spec (COS.sa.101 2518)	(4) V-EG-UMA	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				2 Secs (2 Secs) [==>]	[1]
	2	ACQ/Spec (COS.sa.101 2493)	(4) V-EG-UMA	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	STEP-SIZE=0.9; NUM-POS=5; CENTER=DEF			2 Secs (2 Secs) [==>]	[1]
	3	EGUma_ex p (COS.sp.102 7557)	(4) V-EG-UMA	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=57 7; FP-POS=3; FLASH=YES			400 Secs (583 Secs) [==>583.0 Secs ]	[1]
	4	EGUma_ex p (COS.sp.102 7558)	(4) V-EG-UMA	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=57 7; FP-POS=4; FLASH=YES			400 Secs (462 Secs) [==>462.0 Secs ]	[1]
	5	EGUma_ex p (COS.sp.102 7558)	(4) V-EG-UMA	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=57 7; FP-POS=3; FLASH=YES			400 Secs (462 Secs) [==>462.0 Secs ]	[1]
	6	EGUma_ex p (COS.sp.102 7558)	(4) V-EG-UMA	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=57 7; FP-POS=4; FLASH=YES			400 Secs (462 Secs) [==>462.0 Secs ]	[1]



Proposal 15189 - WD0137-349 (06) - Post Common Envelope Binaries as probes of M dwarf stellar wind and habitable zone radiation ...

Mon Feb 26 21:00:49 GMT 2018

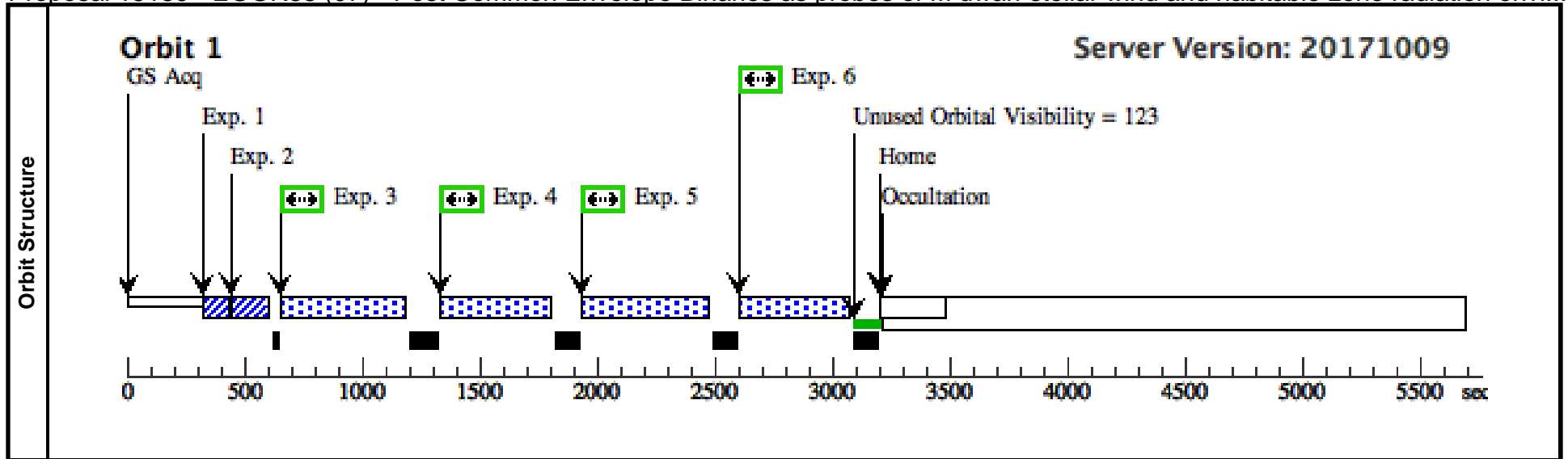
<b>Visit</b>	<b>Proposal 15189, WD0137-349 (06), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV Special Requirements: (none)									
	(WD0137-349 (06)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (WD0137-349 (06)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(5)	WD-0137-349	RA: 01 39 42.8527 (24.9285529d) Dec: -34 42 39.42 (-34.71095d) Equinox: J2000	Proper Motion RA: -42.19 mas/yr Proper Motion Dec: -33.29 mas/yr Epoch of Position: 2000	V=15.33 fuv_mag: 15.03 nuv_mag: 15.1 4	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[BROWN DWARF, DA] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	ACQ/Spec (COS.sa.101 2532)	(5) WD-0137-349	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				5 Secs (5 Secs) [==>]	[1]
	2	ACQ/Spec (COS.sa.101 2532)	(5) WD-0137-349	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	STEP-SIZE=0.9; NUM-POS=5; CENTER=DEF			5 Secs (5 Secs) [==>]	[1]
	3	WD0137_ex p (COS.sp.101 2540)	(5) WD-0137-349	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=10 48; FP-POS=3; FLASH=YES			400 Secs (552 Secs) [==>552.0 Secs ]	[1]
	4	WD0137_ex p (COS.sp.102 7560)	(5) WD-0137-349	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=10 48; FP-POS=4; FLASH=YES			400 Secs (454 Secs) [==>454.0 Secs ]	[1]
	5	WD0137_ex p (COS.sp.102 7560)	(5) WD-0137-349	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=10 48; FP-POS=3; FLASH=YES			400 Secs (454 Secs) [==>454.0 Secs ]	[1]
	6	WD0137_ex p (COS.sp.102 7560)	(5) WD-0137-349	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=10 48; FP-POS=4; FLASH=YES			400 Secs (454 Secs) [==>454.0 Secs ]	[1]



Proposal 15189 - EGGR38 (07) - Post Common Envelope Binaries as probes of M dwarf stellar wind and habitable zone radiation envi...

Mon Feb 26 21:00:49 GMT 2018

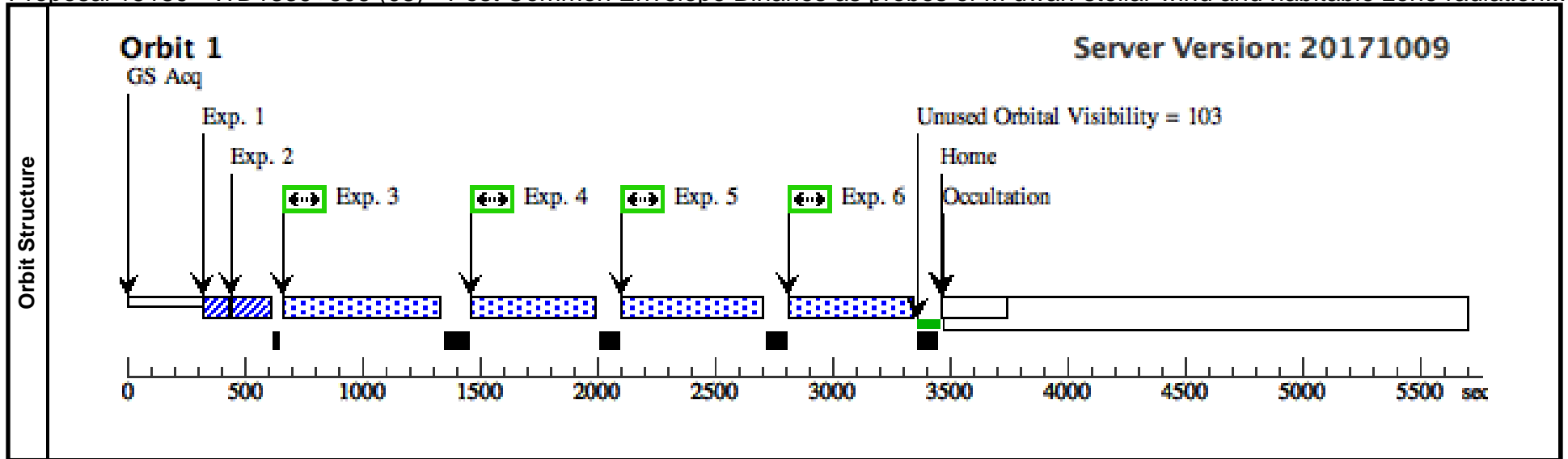
<b>Visit</b>	<b>Proposal 15189, EGGR38 (07), scheduled</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV Special Requirements: (none)									
	(EGGR38 (07)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (EGGR38 (07)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(6)	EGGR-38	RA: 04 32 23.7598 (68.0989992d) Dec: +17 45 2.68 (17.75074d) Equinox: J2000	Proper Motion RA: 115.69 mas/yr Proper Motion Dec: -36.99 mas/yr Epoch of Position: 2000	V=13.93 fuv_mag: n/a nuv_mag: 14.22	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[DA, M III-I] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	ACQ/Spec (COS.sa.101 2548)	(6) EGGR-38	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				2 Secs (2 Secs) [==>]	[1]
	2	ACQ/Spec (COS.sa.101 2548)	(6) EGGR-38	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	STEP-SIZE=0.9; NUM-POS=5; CENTER=DEF			2 Secs (2 Secs) [==>]	[1]
	3	EGGR38_ex p (COS.sp.102 7570)	(6) EGGR-38	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=42 0; FP-POS=3; FLASH=YES			400 Secs (483 Secs) [==>483.0 Secs ]	[1]
	4	EGGR38_ex p (COS.sp.102 7571)	(6) EGGR-38	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=42 0; FP-POS=4; FLASH=YES			400 Secs (420 Secs) [==>420.0 Secs ]	[1]
	5	EGGR38_ex p (COS.sp.102 7571)	(6) EGGR-38	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=42 0; FP-POS=3; FLASH=YES			400 Secs (420 Secs) [==>420.0 Secs ]	[1]
	6	EGGR38_ex p (COS.sp.102 7571)	(6) EGGR-38	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=42 0; FP-POS=4; FLASH=YES			400 Secs (420 Secs) [==>420.0 Secs ]	[1]



Proposal 15189 - WD1339+606 (08) - Post Common Envelope Binaries as probes of M dwarf stellar wind and habitable zone radiation...

Mon Feb 26 21:00:49 GMT 2018

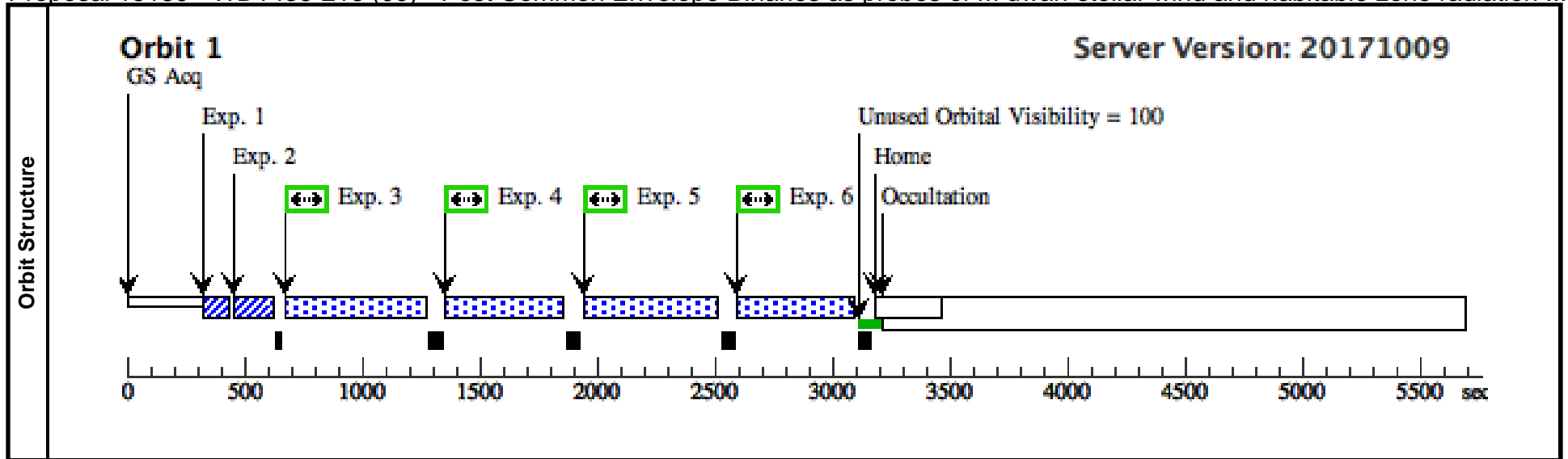
<b>Visit</b>	<b>Proposal 15189, WD1339+606 (08), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV Special Requirements: (none)									
	(WD1339+606 (08)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (WD1339+606 (08)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(8)	WD-1339+606	RA: 13 41 0.0245 (205.2501021d) Dec: +60 26 10.49 (60.43625d) Equinox: J2000	Proper Motion RA: 9.6 mas/yr Proper Motion Dec: -23 mas/yr Epoch of Position: 2000	V=16.7 fuv_mag: 15.068 nuv_mag: 15.6 15	Reference Frame: ICRS				
Comments: Category=STAR Description=[DA, M III-I] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	ACQ/Spec (COS.sa.101 2572)	(8) WD-1339+606	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				3 Secs (3 Secs) [==>]	[1]
	2	ACQ/Spec (COS.sa.101 2572)	(8) WD-1339+606	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	STEP-SIZE=0.9; NUM-POS=5; CENTER=DEF			3 Secs (3 Secs) [==>]	[1]
	3	WD1339_ex p (COS.sp.102 7573)	(8) WD-1339+606	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=64 0; FP-POS=3; FLASH=YES			400 Secs (621 Secs) [==>621.0 Secs ]	[1]
	4	WD1339_ex p (COS.sp.102 7574)	(8) WD-1339+606	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=64 0; FP-POS=4; FLASH=YES			400 Secs (482 Secs) [==>482.0 Secs ]	[1]
	5	WD1339_ex p (COS.sp.102 7574)	(8) WD-1339+606	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=64 0; FP-POS=3; FLASH=YES			400 Secs (482 Secs) [==>482.0 Secs ]	[1]
	6	WD1339_ex p (COS.sp.102 7574)	(8) WD-1339+606	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=64 0; FP-POS=4; FLASH=YES			400 Secs (482 Secs) [==>482.0 Secs ]	[1]



Proposal 15189 - WD1436-216 (09) - Post Common Envelope Binaries as probes of M dwarf stellar wind and habitable zone radiation ...

Mon Feb 26 21:00:49 GMT 2018

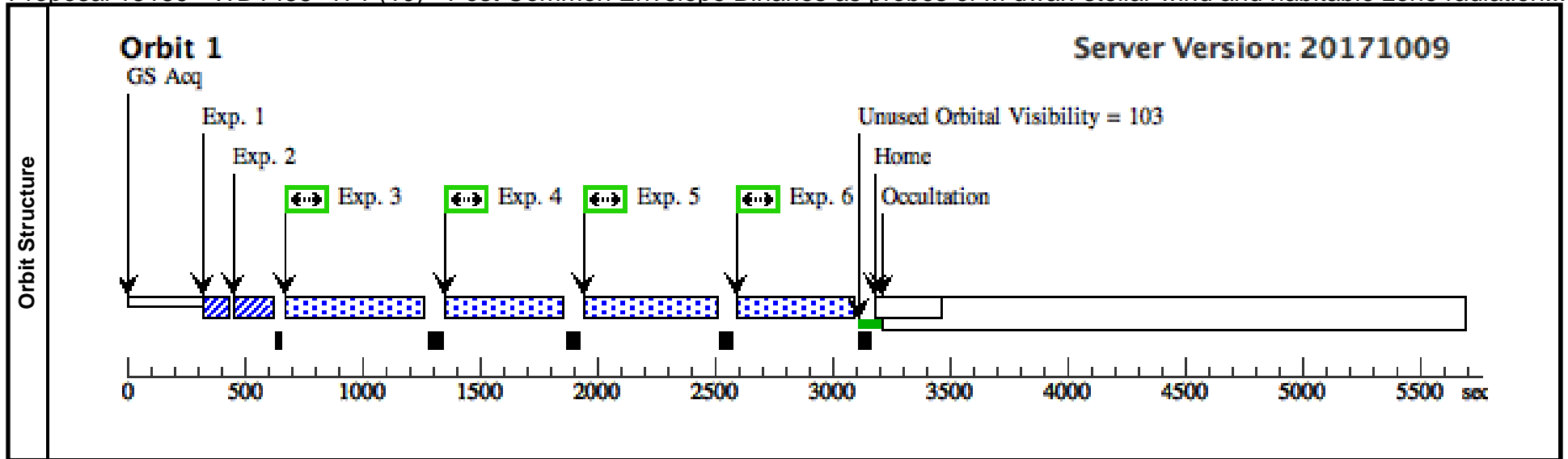
<b>Visit</b>	<b>Proposal 15189, WD1436-216 (09), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV Special Requirements: (none)									
	(WD1436-216 (09)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (WD1436-216 (09)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(9)	WD-1436-216	RA: 14 39 12.6475 (219.8026979d) Dec: -21 50 13.92 (-21.83720d) Equinox: J2000	Proper Motion RA: 6.3 mas/yr Proper Motion Dec: -20.1 mas/yr Epoch of Position: 2000		V=15.94 fuv_mag: 15.389 nuv_mag:15.8 09	Reference Frame: ICRS			
Comments: Category=STAR Description=[DA, M III-I] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	ACQ/Spec (COS.sa.101 2577)	(9) WD-1436-216	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				4 Secs (4 Secs) [==>]	[1]
	2	ACQ/Spec (COS.sa.101 2577)	(9) WD-1436-216	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	STEP-SIZE=0.9; NUM-POS=5; CENTER=DEF			4 Secs (4 Secs) [==>]	[1]
	3	WD1436_ex p (COS.sp.102 7575)	(9) WD-1436-216	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=10 22; FP-POS=3; FLASH=YES			400 Secs (546 Secs) [==>546.0 Secs ]	[1]
	4	WD1436_ex p (COS.sp.102 7576)	(9) WD-1436-216	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=10 22; FP-POS=4; FLASH=YES			400 Secs (452 Secs) [==>452.0 Secs ]	[1]
	5	WD1436_ex p (COS.sp.102 7576)	(9) WD-1436-216	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=10 22; FP-POS=3; FLASH=YES			400 Secs (452 Secs) [==>452.0 Secs ]	[1]
	6	WD1436_ex p (COS.sp.102 7576)	(9) WD-1436-216	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=10 22; FP-POS=4; FLASH=YES			400 Secs (452 Secs) [==>452.0 Secs ]	[1]



Proposal 15189 - WD1458+171 (10) - Post Common Envelope Binaries as probes of M dwarf stellar wind and habitable zone radiation...

Mon Feb 26 21:00:49 GMT 2018

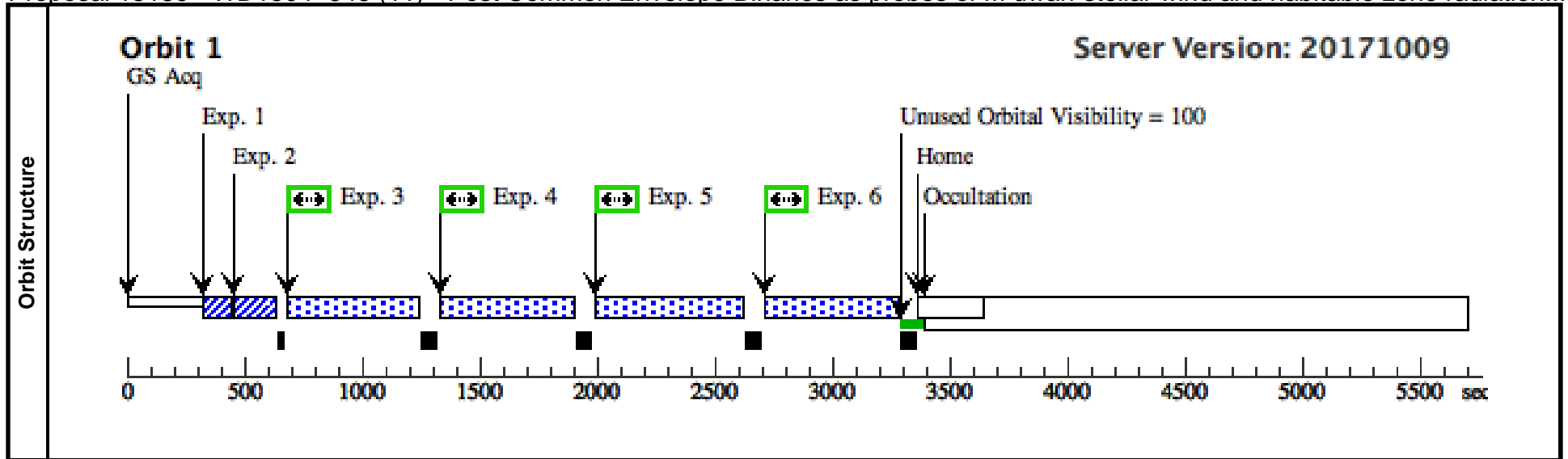
<b>Visit</b>	<b>Proposal 15189, WD1458+171 (10), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV Special Requirements: (none)									
	(WD1458+171 (10)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (WD1458+171 (10)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(10)	WD-1458+171	RA: 15 00 19.3390 (225.0805792d) Dec: +16 59 14.56 (16.98738d) Equinox: J2000	Proper Motion RA: -7.87 mas/yr Proper Motion Dec: -18.17 mas/yr Epoch of Position: 2000	V=16.21 nuv_mag: 15.5	Reference Frame: ICRS				
Comments: Category=STAR Description=[DA, M V-IV] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	ACQ/Spec (COS.sa.101 2602)	(10) WD-1458+171	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				4 Secs (4 Secs) [==>]	[1]
	2	ACQ/Spec (COS.sa.101 2602)	(10) WD-1458+171	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	STEP-SIZE=0.9; NUM-POS=5; CENTER=DEF			4 Secs (4 Secs) [==>]	[1]
	3	WD1458_ex p (COS.sp.102 7577)	(10) WD-1458+171	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=10 71; FP-POS=3; FLASH=YES			400 Secs (545 Secs) [==>545.0 Secs ]	[1]
	4	WD1458_ex p (COS.sp.102 7578)	(10) WD-1458+171	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=10 71; FP-POS=4; FLASH=YES			400 Secs (451 Secs) [==>451.0 Secs ]	[1]
	5	WD1458_ex p (COS.sp.102 7578)	(10) WD-1458+171	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=10 71; FP-POS=3; FLASH=YES			400 Secs (451 Secs) [==>451.0 Secs ]	[1]
	6	WD1458_ex p (COS.sp.102 7578)	(10) WD-1458+171	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=10 71; FP-POS=4; FLASH=YES			400 Secs (451 Secs) [==>451.0 Secs ]	[1]



Proposal 15189 - WD1504+546 (11) - Post Common Envelope Binaries as probes of M dwarf stellar wind and habitable zone radiation...

Mon Feb 26 21:00:49 GMT 2018

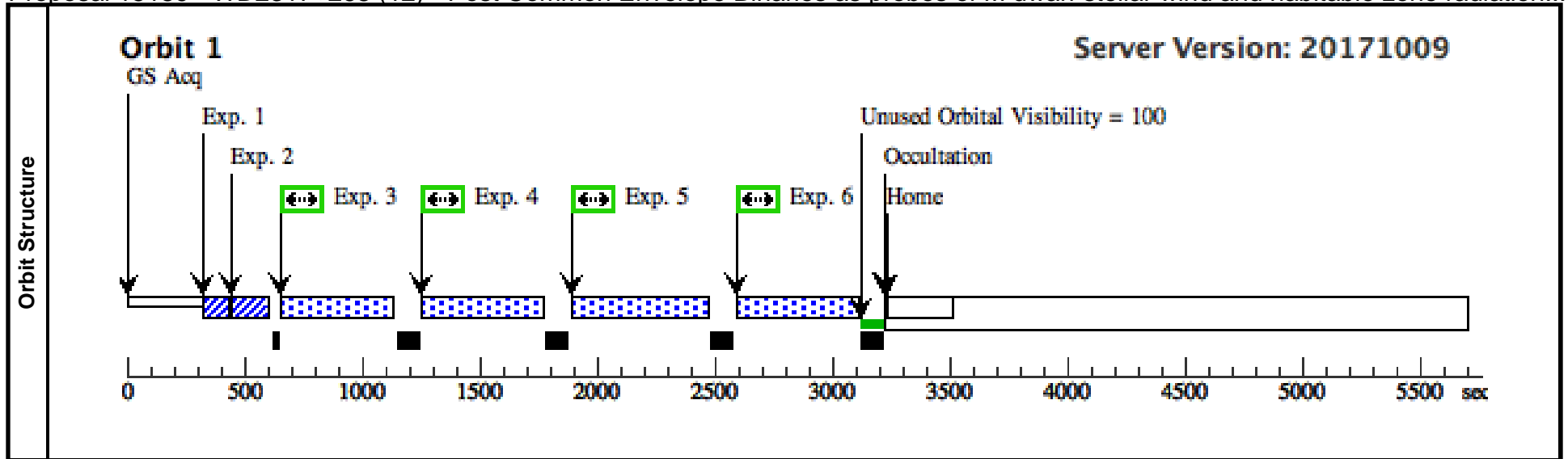
<b>Visit</b>	<p><b>Proposal 15189, WD1504+546 (11), completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV</p> <p>Special Requirements: Period 0.93071526149955708 D AND ZERO-PHASE HJD2457257.3662594743</p> <p><i>Comments: WD1504+546 was discovered to be an eclipsing binary after this proposal was submitted. As no UV flux is expected during the eclipse and the eclipse duration is similar to the time on target, we request that the observation completely avoid the eclipse. The ephemeris is as follows, in days:</i></p> <p><i>T0 2457257.3662594743</i>  <i>T0_error 0.0014085256</i>  <i>E 0.93071526149955708</i>  <i>E_error 6.25E-06</i>  <i>Eclipse duration = 39 minutes</i></p> <p><i>Please let me know if you require further details.</i></p>									
	<p>(WD1504+546 (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>(WD1504+546 (11)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS</p>									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(11)	WD-1504+546	RA: 15 06 5.4278 (226.5226158d) Dec: +54 28 18.63 (54.47184d) Equinox: J2000	Proper Motion RA: -16 mas/yr Proper Motion Dec: 7.7 mas/yr Epoch of Position: 2000	V=16.369+/-0.077 fuv_mag: 15.476 nuv_mag: 15.9 19	Reference Frame: ICRS				
<p><i>Comments: Enhanced timing constraints due to eclipse, see visit for details</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[DA, M III-I]</i></p> <p><i>Extended=NO</i></p>										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	ACQ/Spec (COS.sa.101 2610)	(11) WD-1504+546	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A		PHASE 0.05 TO 0.9 5		5 Secs (5 Secs) [==>]	[1]
	2	ACQ/Spec (COS.sa.101 2610)	(11) WD-1504+546	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	STEP-SIZE=0.9; NUM-POS=5; CENTER=DEF			5 Secs (5 Secs) [==>]	[1]
	3	WD1504_ex p (COS.sp.102 7581)	(11) WD-1504+546	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=11 46; FP-POS=3; FLASH=YES			400 Secs (513 Secs) [==>513.0 Secs ]	[1]
	4	WD1504_ex p (COS.sp.102 7581)	(11) WD-1504+546	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=11 46; FP-POS=4; FLASH=YES			400 Secs (513 Secs) [==>513.0 Secs ]	[1]
	5	WD1504_ex p (COS.sp.102 7581)	(11) WD-1504+546	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=11 46; FP-POS=3; FLASH=YES			400 Secs (513 Secs) [==>513.0 Secs ]	[1]
	6	WD1504_ex p (COS.sp.102 7581)	(11) WD-1504+546	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=11 46; FP-POS=4; FLASH=YES			400 Secs (513 Secs) [==>513.0 Secs ]	[1]



Proposal 15189 - WD2317+268 (12) - Post Common Envelope Binaries as probes of M dwarf stellar wind and habitable zone radiation...

Mon Feb 26 21:00:50 GMT 2018

<b>Visit</b>	<b>Proposal 15189, WD2317+268 (12), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV Special Requirements: (none)									
	(WD2317+268 (12)) 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. (WD2317+268 (12)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(12)	WD-2317+268	RA: 23 20 4.0176 (350.0167400d) Dec: +27 06 23.87 (27.10663d) Equinox: J2000	Proper Motion RA: 41.6 mas/yr Proper Motion Dec: -9.8 mas/yr Epoch of Position: 2000	V=16.3 fuv_mag: 14.747 nuv_mag:15.2 03	Reference Frame: ICRS				
Comments: Category=STAR Description=[DA, M V-IV] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	ACQ/Spec (COS.sa.101 2624)	(12) WD-2317+268	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				2 Secs (2 Secs) [==>]	[1]
	2	ACQ/Spec (COS.sa.101 2624)	(12) WD-2317+268	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	STEP-SIZE=0.9; NUM-POS=5; CENTER=DEF			2 Secs (2 Secs) [==>]	[1]
	3	WD2317_ex p (COS.sp.102 7582)	(12) WD-2317+268	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=52 7; FP-POS=3; FLASH=YES			400 Secs (429 Secs) [==>429.0 Secs ]	[1]
	4	WD2317_ex p (COS.sp.102 7583)	(12) WD-2317+268	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=52 7; FP-POS=4; FLASH=YES			400 Secs (464 Secs) [==>464.0 Secs ]	[1]
	5	WD2317_ex p (COS.sp.102 7583)	(12) WD-2317+268	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=52 7; FP-POS=3; FLASH=YES			400 Secs (464 Secs) [==>464.0 Secs ]	[1]
	6	WD2317_ex p (COS.sp.102 7583)	(12) WD-2317+268	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=52 7; FP-POS=4; FLASH=YES			400 Secs (464 Secs) [==>464.0 Secs ]	[1]



Proposal 15189 - V727\_CAR (02) - Post Common Envelope Binaries as probes of M dwarf stellar wind and habitable zone radiation e...

Mon Feb 26 21:00:50 GMT 2018

<b>Visit</b>	<b>Proposal 15189, V727_CAR (02), completed</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(7)	V-V727-CAR	RA: 10 44 10.2290 (161.0426208d) Dec: -69 18 18.32 (-69.30509d) Equinox: J2000	Proper Motion RA: -296.3 mas/yr Proper Motion Dec: 13.5 mas/yr Epoch of Position: 2000	V=13.09 IUE BPM FLux: 1.3x10 <sup>-12</sup> erg s cm <sup>-2</sup> A <sup>-1</sup>	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					
	Category=STAR Description=[DA, M V-IV] Extended=NO					

<b>Exposures</b>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	V727Car_A qu (STIS.ta.101 2367)	(7) V-V727-CAR	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	V727Car_ex p (STIS.sp.10 12944)	(7) V-V727-CAR	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=27 0			2500 Secs (2728 Secs) [==>2728.0 Secs ]	[1]

