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## Outflow Legacy Accretion Survey: unveiling the wind driving mechanism in BHXRBs

Castro Segura, Noel; Altamirano, Diego; Buisson, Douglas; Degenaar, Nathalie; Diaz Trigo, Maria; Fender, Rob; Higginbottom, Nick; Knigge, Christian; Long, Knox S.; Matthews, James

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# 16489 - Outflow Legacy Accretion Survey: unveiling the wind driving mechanism in BHXRBS

Cycle: 28, Proposal Category: GO  
(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) BHXRb-CANDIDATE	COS/FUV COS/NUV	3	15-Mar-2021 17:00:47.0	yes

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02	(1) BHXRБ-CANDIDATE	COS/FUV COS/NUV	3	15-Mar-2021 17:00:48.0	yes
03	(1) BHXRБ-CANDIDATE	COS/FUV COS/NUV	3	15-Mar-2021 17:00:49.0	yes
04	(1) BHXRБ-CANDIDATE	COS/FUV COS/NUV	3	15-Mar-2021 17:00:50.0	yes

12 Total Orbits Used

### **ABSTRACT**

Transient black-hole X-ray binaries viewed at high inclinations display blue-shifted absorption lines in their X-ray spectra. These features are the signatures of powerful, hot and equatorial accretion disk winds being driven from these systems in their luminous soft states. Remarkably, blue-shifted absorption lines have recently also been discovered in optical and NIR recombination lines and ultraviolet resonance features. These features must also be produced in an outflow, but the physical conditions traced by these outflows are different. Despite this, the characteristic Doppler velocities of all three types of signatures are comparable, yet they have never been observed simultaneously. It is therefore completely unclear if they are associated with distinct outflows (e.g. driven by different mechanisms) or simply with different regions/phases within the same outflow. Here, we propose to answer this question by carrying out simultaneous time-resolved spectroscopy of a high-inclination system in the X-ray, ultraviolet and optical bands, in its two distinct physical configurations (hard- and soft-states). This will allow us to test if the three types of wind features are present simultaneously, and, if so, whether they display correlated variability and/or velocity structure.

### **OBSERVING DESCRIPTION**

We will observe LMXRB in the hard and soft states coordinated with XMM-Newton. Ideally we will have 3 visits, at the beginning and end of the XMM exposure, in order to search for simultaneous accretion disk winds in the X-ray and FUV.

Given the unknown UV luminosity of the transient I am leaving different observing strategies in this mock phase II.

Once we have a suitable target I will update all this carefully.

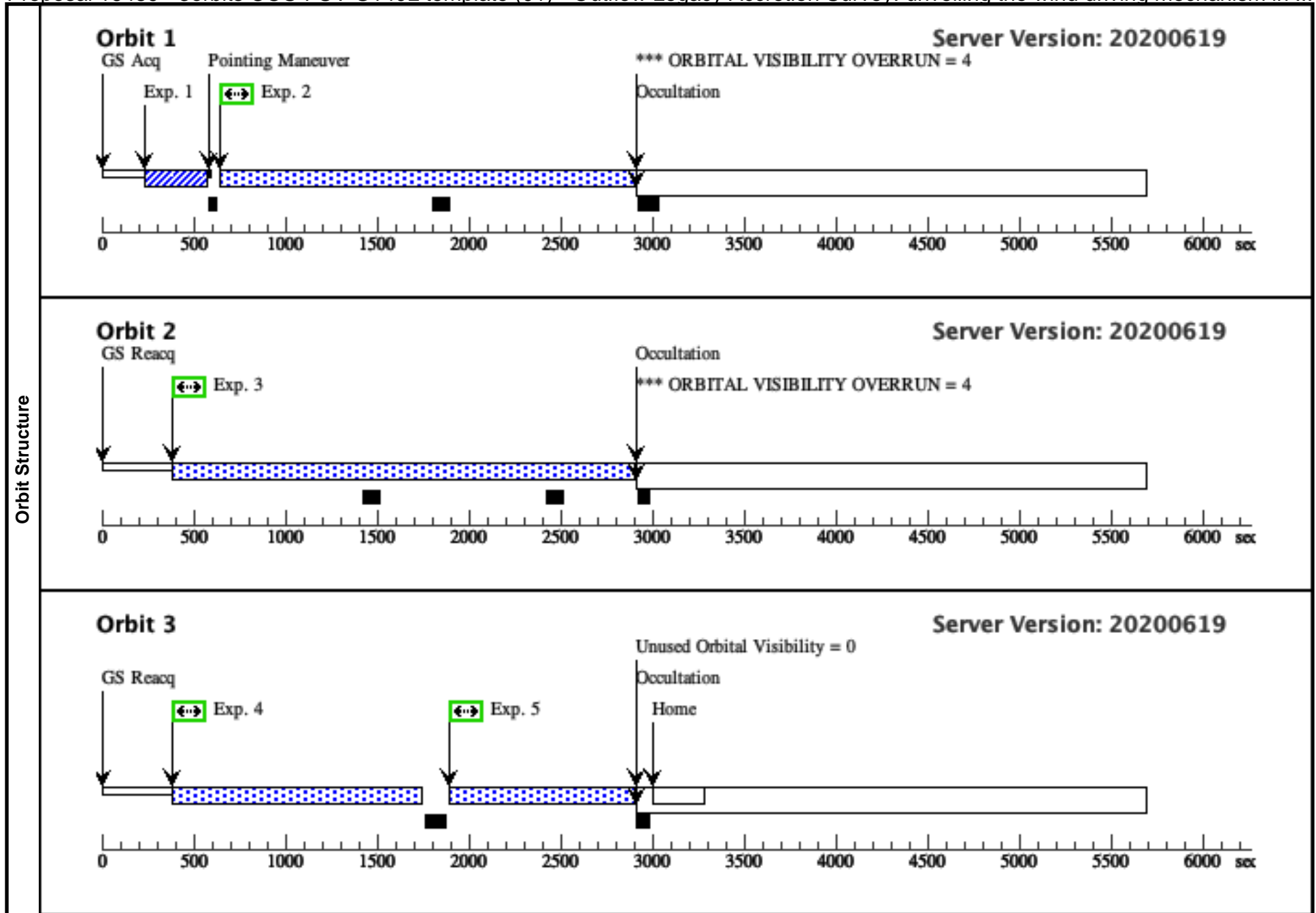
Proposal 16489 (STScI Edit Number: 0, Created: Monday, March 15, 2021 at 4:00:51 PM Eastern Standard Time) - Overview

For now the target is Swift J1858 which is a transient where we triggered similar programs during the past two cycles.

Proposal 16489 - 3orbits COS-FUV G140L template (01) - Outflow Legacy Accretion Survey: unveiling the wind driving mechanism in ...

Mon Mar 15 21:00:51 GMT 2021

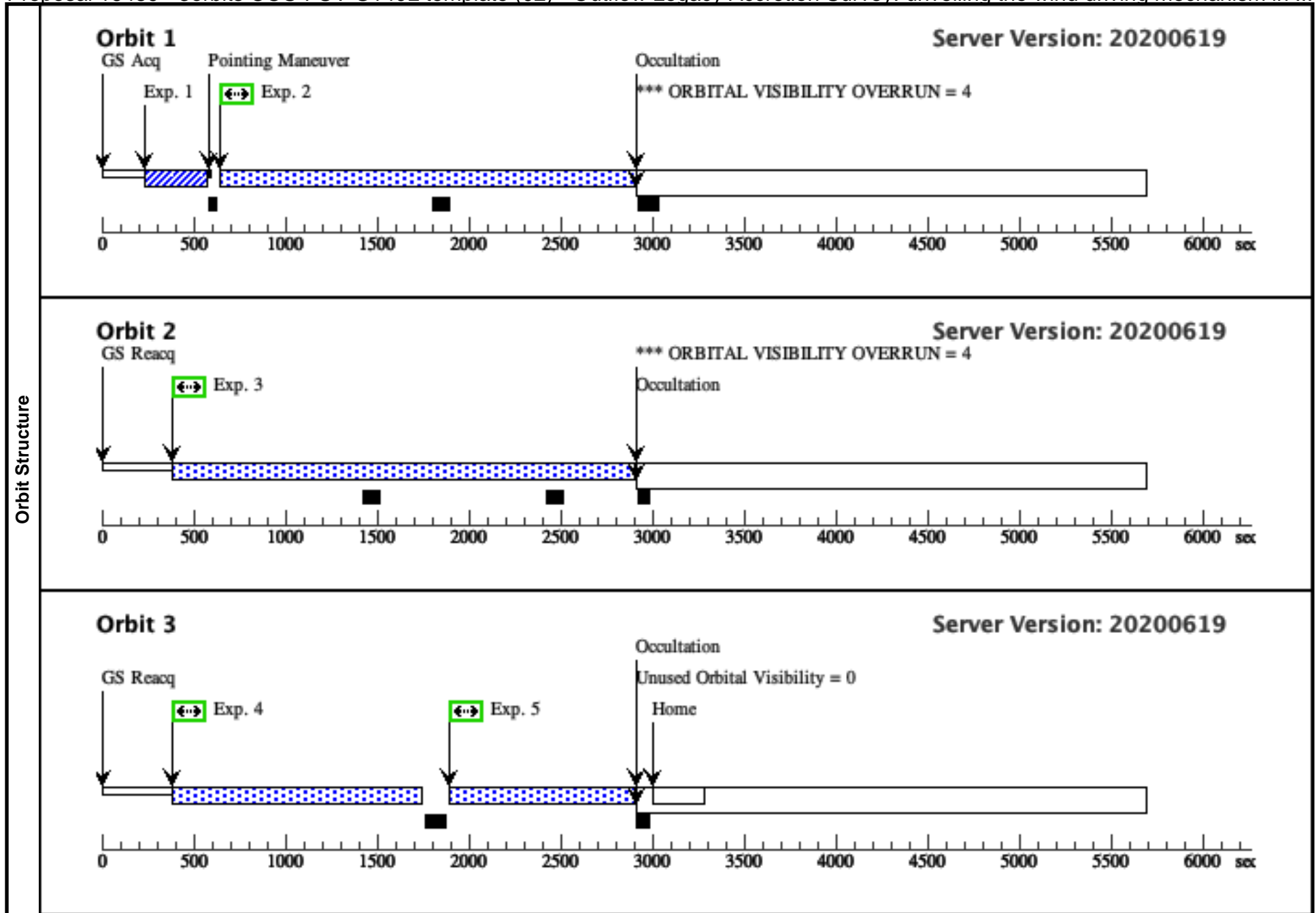
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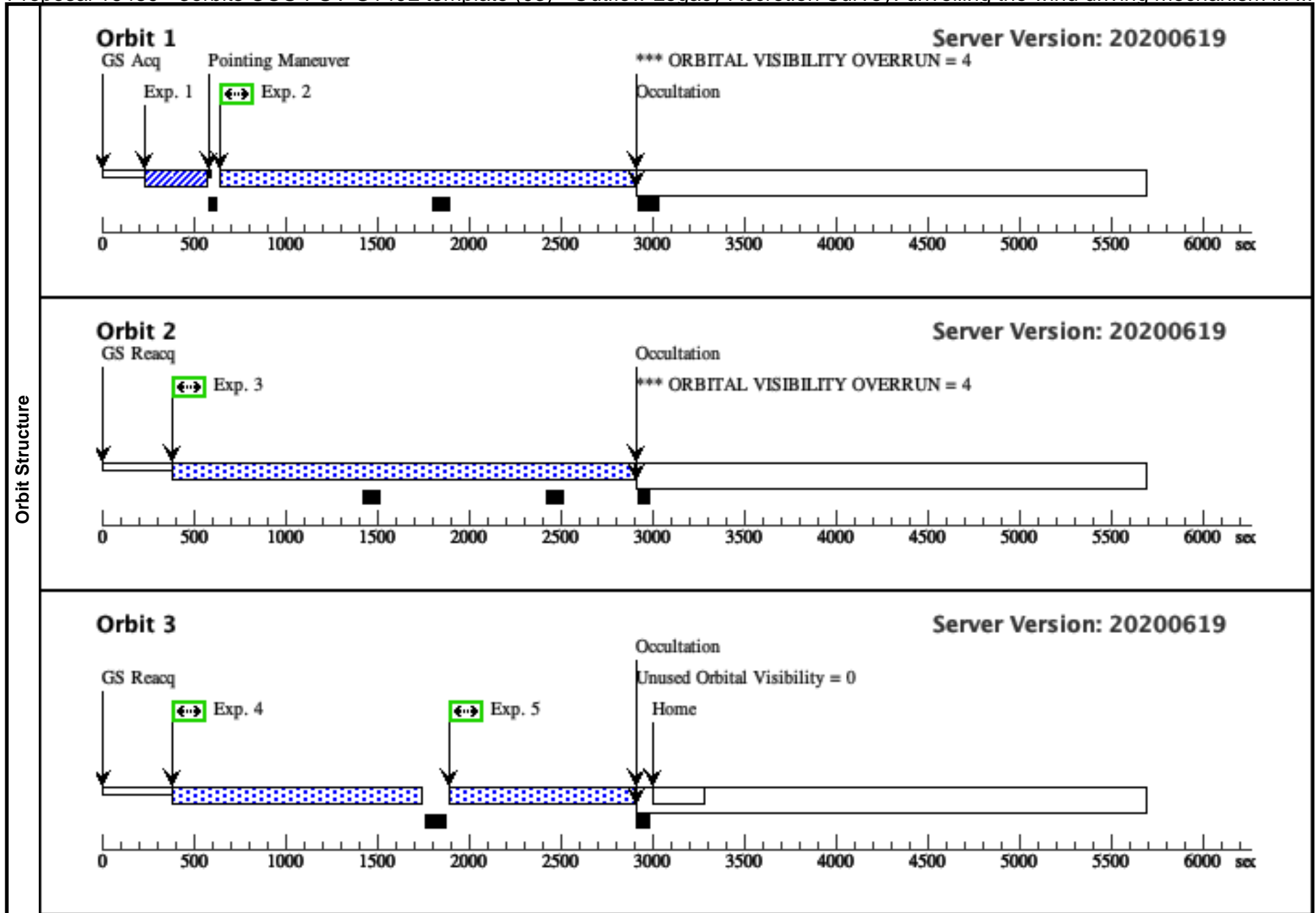




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Proposal 16489 - 3orbits COS-FUV G140L template (04) - Outflow Legacy Accretion Survey: unveiling the wind driving mechanism in ...

Mon Mar 15 21:00:51 GMT 2021

<b>Visit</b>	<b>Proposal 16489, 3orbits COS-FUV G140L template (04)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%; ON HOLD Comments: This template has 3 orbits with the different FP-POS spanning all the orbits in order to optimize the exposure time On Hold Comments: ToO									
<b>Generic Targets</b>	<b>#</b>	<b>Name</b>	<b>Criteria</b>	<b>Description</b>						
	(1)	BHXR-B-CANDIDATE	X-Ray Transient	ACCRETION DISK EJECTA WIND X-RAY NOVAE X-RAY TRANSIENT						
Comments: This is a dummy test										
<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>
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	2	SCI (COS.sp.141 6844)	(1) BHXR-B-CANDI DATE	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=10 00; FP-POS=1			2000 Secs (2082 Secs) [==>2082.0 Secs ]	[1]
	3	SCI (COS.sp.141 6844)	(1) BHXR-B-CANDI DATE	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=10 00; FP-POS=2			2500 Secs (2462 Secs) [==>2462.0 Secs ]	[2]
	4	SCI (COS.sp.141 6844)	(1) BHXR-B-CANDI DATE	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=13 00; FP-POS=3			1400 Secs (1310 Secs) [==>1310.0 Secs ]	[3]
	5	SCI (COS.sp.141 6844)	(1) BHXR-B-CANDI DATE	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=15 00; FP-POS=4			1051 Secs (961 Secs) [==>961.0 Secs ]	[3]

