



16066 - Tracing accretion disk winds across the electromagnetic spectrum in BXRBS

Cycle: 27, Proposal Category: GO
(Availability Mode: SUPPORTED)

INVESTIGATORS

| <i>Name</i> | <i>Institution</i> | <i>E-Mail</i> |
|---|---|------------------------------------|
| Mr. Noel Castro Segura (PI) (ESA Member) (Contact) | University of Southampton | n.castro-segura@soton.ac.uk |
| Dr. Maria Diaz Trigo (CoI) (ESA Member) | European Southern Observatory - Germany | mdiaztri@eso.org |
| Prof. Christian Knigge (CoI) (ESA Member) (Contact) | University of Southampton | c.knigge@soton.ac.uk |
| Dr. Diego Altamirano (CoI) (ESA Member) | University of Southampton | d.altamirano@soton.ac.uk |
| Federico Vincentelli (CoI) | UNIVERSITA DEGLI STUDI DELL'INSUBRIA | vincentelli.fm@gmail.com |
| Dr. Teo Munoz Darias (CoI) (ESA Member) | Instituto de Astrofisica de Canarias | teo.munoz-darias@iac.es |
| Dr. Jorges Casares (CoI) (ESA Member) | Instituto de Astrofisica de Canarias | jorge.casares@iac.es |
| Dr. Knox S. Long (CoI) (AdminUSPI) | Eureka Scientific Inc. | long@stsci.edu |
| Dr. Nick Higginbottom (CoI) (ESA Member) | University of Southampton | nick_higginbottom@fastmail.fm |
| Dra. Mehtap Ozbey Arabaci (CoI) (ESA Member) | University of Southampton | m.ozbey-arabaci@soton.ac.uk |
| Mr. Douglas Buisson (CoI) (ESA Member) | University of Cambridge | djkb2@ast.cam.ac.uk |
| Dr. Matthew Middleton (CoI) (ESA Member) | University of Cambridge | m.j.middleton@soton.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 | (2) SWIFTJ1858 | COS/FUV COS/NUV | 3 | 13-Mar-2020 16:00:53.0 | yes |

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|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 51 | (2) SWIFTJ1858 | COS/FUV COS/NUV | 3 | 13-Mar-2020 16:00:54.0 | yes |
| 52 | (2) SWIFTJ1858 | COS/FUV COS/NUV | 3 | 13-Mar-2020 16:00:56.0 | yes |
| 53 | (2) SWIFTJ1858 | COS/FUV COS/NUV | 3 | 13-Mar-2020 16:00:57.0 | yes |

12 Total Orbits Used

ABSTRACT

During their soft state edge-on black hole transients show blue-shifted absorption lines in their X-ray spectra due to hot and equatorial disk winds. Blue-shifted absorption lines have also been discovered in optical and ultraviolet(UV). These features must be produced in an outflow, but the physical conditions required to form them are very different. The three features have never been observed at the same time. It is unclear if they are linked to distinct outflows or simply with different regions. We propose to answer this question with simultaneous time-resolved spectroscopy of a high-inclination soft-state system in the X-ray, UV and optical bands. This will allow us to test if the three types of wind features are present simultaneously and whether they display correlated variability.

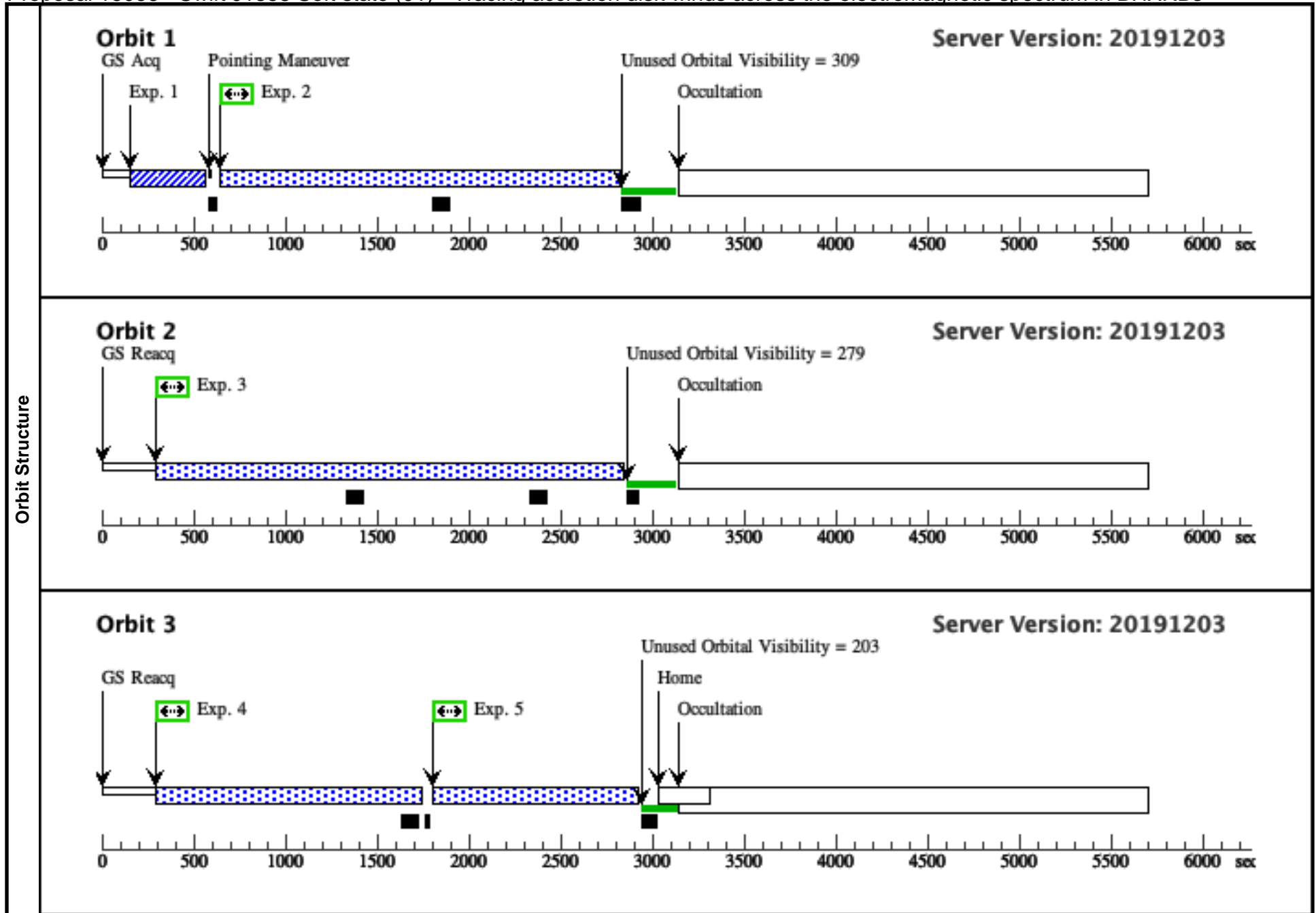
OBSERVING DESCRIPTION

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

Proposal 16066 - Swift J1858 Soft state (01) - Tracing accretion disk winds across the electromagnetic spectrum in BXRBs

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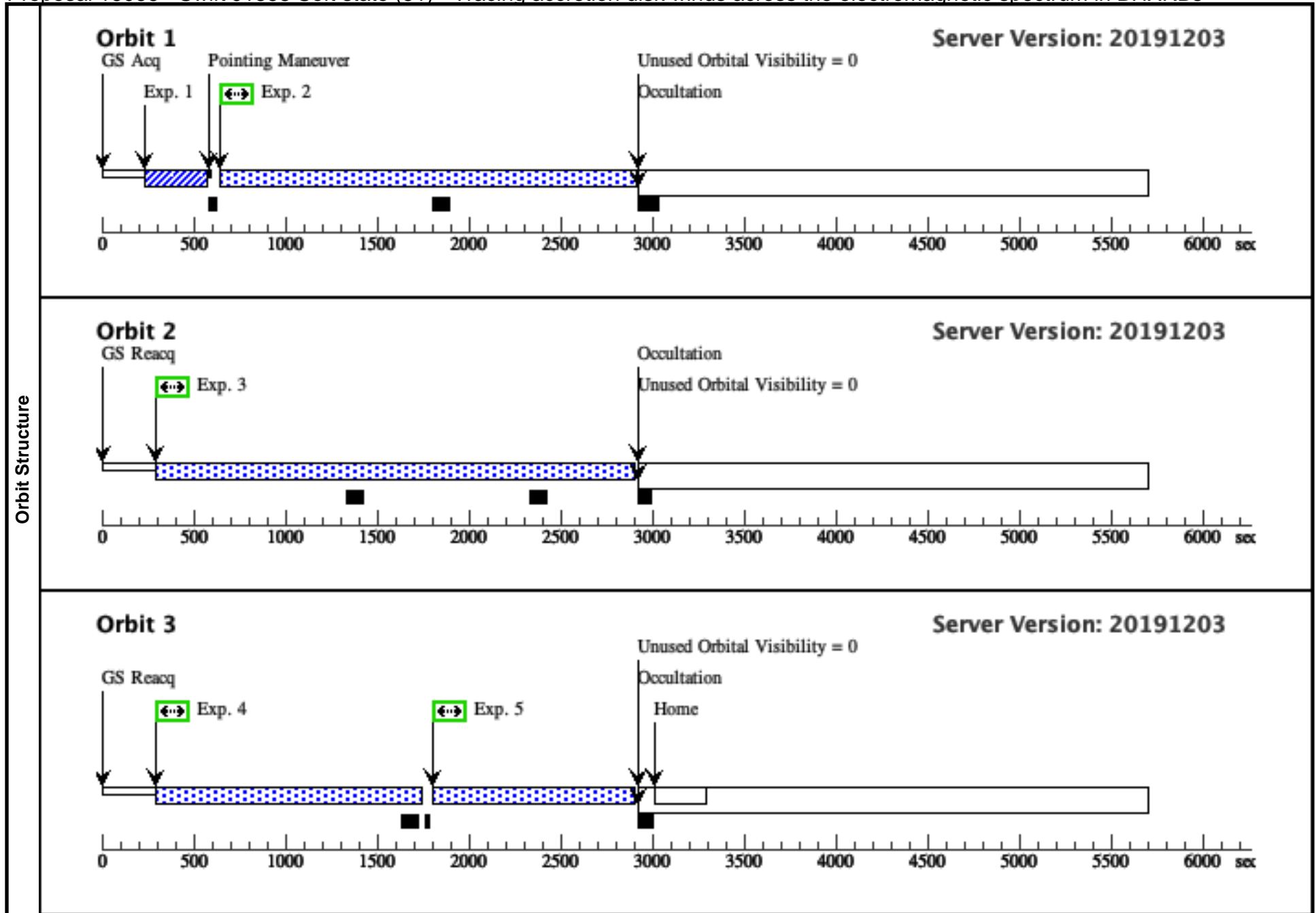
| Visit | Proposal 16066, Swift J1858 Soft state (01), failed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: ON HOLD <i>On Hold Comments: ToO</i> | | | | | | | | | | | | | | | | | | | | |
|-----------|---|---|--------------------------|---|-----------------------|-------------------------------|-------------------------------|--------------------------------|---------------------------------|-------|---|------|--------------------|--------------------------|--------|---------------|-----|------------|---|--|---|
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| Exposures | # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit | | | | | | | | | | | |
| | 1 | ACQ (COS.ta.1417131) | (2) SWIFTJ1858 | COS/NUV, ACQ/IMAGE, PSA | MIRRORB | | | | 60 Secs (60 Secs) [==>] | [1] | | | | | | | | | | | |
| | <i>Comments: I tried different spectral configurations for the target aquisition: COS.ta.1417131 COS.ta.1417132 COS.ta.1417134</i> | | | | | | | | | | | | | | | | | | | | |
| | 2 | SCI (COS.sp.1416844) | (2) SWIFTJ1858 | COS/FUV, TIME-TAG, PSA | G140L 1105 A | | BUFFER-TIME=1000; FP-POS=1 | | 2000 Secs (2000 Secs) [==>] | [1] | | | | | | | | | | | |
| | <i>Comments: Other spetal shapes are considered here: COS.sp.1416844 COS.sp.1416867 COS.sp.1416865</i> | | | | | | | | | | | | | | | | | | | | |
| | 3 | SCI (COS.sp.1416844) | (2) SWIFTJ1858 | COS/FUV, TIME-TAG, PSA | G140L 1105 A | | BUFFER-TIME=1000; FP-POS=2 | | 2500 Secs (2500 Secs) [==>] | [2] | | | | | | | | | | | |
| 4 | SCI (COS.sp.1416844) | (2) SWIFTJ1858 | COS/FUV, TIME-TAG, PSA | G140L 1105 A | | BUFFER-TIME=1300; FP-POS=3 | | 1400 Secs (1400 Secs) [==>] | [3] | | | | | | | | | | | | |
| 5 | SCI (COS.sp.1416844) | (2) SWIFTJ1858 | COS/FUV, TIME-TAG, PSA | G140L 1105 A | | BUFFER-TIME=1500; FP-POS=4 | | 1071 Secs (1071 Secs) [==>] | [3] | | | | | | | | | | | | |



Proposal 16066 - Swift J1858 Soft state (51) - Tracing accretion disk winds across the electromagnetic spectrum in BHXRBs

Fri Mar 13 20:00:57 GMT 2020

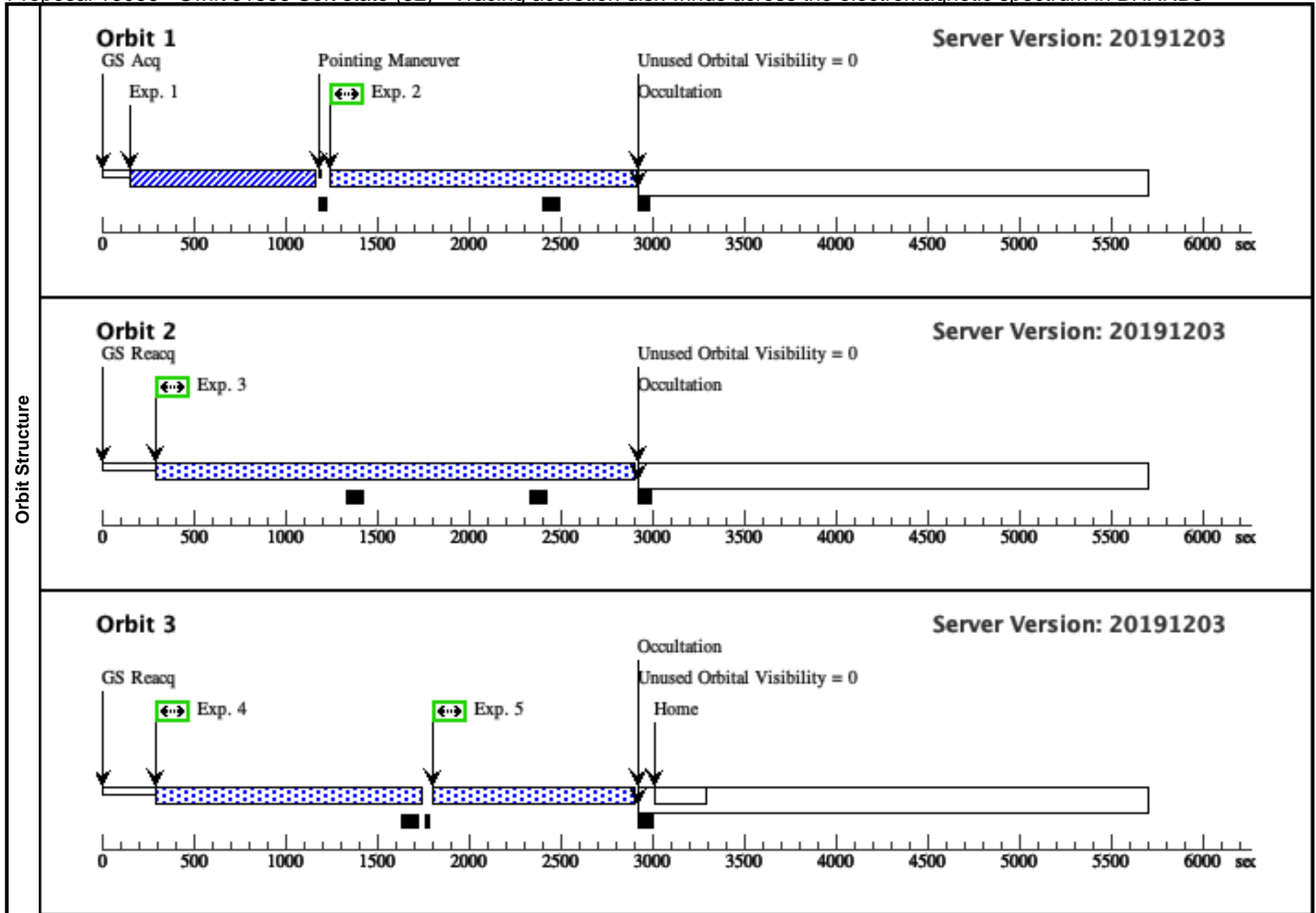
| Visit | Proposal 16066, Swift J1858 Soft state (51), completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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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>ACQ (COS.ta.1423573)</td> <td>(2) SWIFTJ1858</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORA</td> <td></td> <td></td> <td></td> <td>60 Secs (60 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10">Comments: I tried different spectral configurations for the target aquisition: COS.ta.1423594 COS.ta.1423593</td> </tr> <tr> <td>2</td> <td>SCI (COS.sp.1416844)</td> <td>(2) SWIFTJ1858</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 1105 A</td> <td>BUFFER-TIME=1000; FP-POS=1</td> <td></td> <td></td> <td>2000 Secs (2086 Secs) [==>2086.0 Secs]</td> <td>[1]</td> </tr> <tr> <td colspan="10">Comments: Otther spetral shapes are considered here: COS.sp.1416844 COS.sp.1416867 COS.sp.1416865</td> </tr> <tr> <td>3</td> <td>SCI (COS.sp.1416844)</td> <td>(2) SWIFTJ1858</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 1105 A</td> <td>BUFFER-TIME=1000; FP-POS=2</td> <td></td> <td></td> <td>2500 Secs (2556 Secs) [==>2556.0 Secs]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>SCI (COS.sp.1416844)</td> <td>(2) SWIFTJ1858</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 1105 A</td> <td>BUFFER-TIME=1300; FP-POS=3</td> <td></td> <td></td> <td>1400 Secs (1400 Secs) [==>]</td> <td>[3]</td> </tr> <tr> <td>5</td> <td>SCI (COS.sp.1416844)</td> <td>(2) SWIFTJ1858</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 1105 A</td> <td>BUFFER-TIME=1500; FP-POS=4</td> <td></td> <td></td> <td>1051 Secs (1051 Secs) [==>]</td> <td>[3]</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 | ACQ (COS.ta.1423573) | (2) SWIFTJ1858 | COS/NUV, ACQ/IMAGE, PSA | MIRRORA | | | | 60 Secs (60 Secs) [==>] | [1] | Comments: I tried different spectral configurations for the target aquisition: COS.ta.1423594 COS.ta.1423593 | | | | | | | | | | 2 | SCI (COS.sp.1416844) | (2) SWIFTJ1858 | COS/FUV, TIME-TAG, PSA | G140L 1105 A | BUFFER-TIME=1000; FP-POS=1 | | | 2000 Secs (2086 Secs) [==>2086.0 Secs] | [1] | Comments: Otther spetral shapes are considered here: COS.sp.1416844 COS.sp.1416867 COS.sp.1416865 | | | | | | | | | | 3 | SCI (COS.sp.1416844) | (2) SWIFTJ1858 | COS/FUV, TIME-TAG, PSA | G140L 1105 A | BUFFER-TIME=1000; FP-POS=2 | | | 2500 Secs (2556 Secs) [==>2556.0 Secs] | [2] | 4 | SCI (COS.sp.1416844) | (2) SWIFTJ1858 | COS/FUV, TIME-TAG, PSA | G140L 1105 A | BUFFER-TIME=1300; FP-POS=3 | | | 1400 Secs (1400 Secs) [==>] | [3] | 5 | SCI (COS.sp.1416844) | (2) SWIFTJ1858 | COS/FUV, TIME-TAG, PSA | G140L 1105 A | BUFFER-TIME=1500; FP-POS=4 | | | 1051 Secs (1051 Secs) [==>] | [3] |
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| 3 | SCI (COS.sp.1416844) | (2) SWIFTJ1858 | COS/FUV, TIME-TAG, PSA | G140L 1105 A | BUFFER-TIME=1000; FP-POS=2 | | | 2500 Secs (2556 Secs) [==>2556.0 Secs] | [2] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | SCI (COS.sp.1416844) | (2) SWIFTJ1858 | COS/FUV, TIME-TAG, PSA | G140L 1105 A | BUFFER-TIME=1300; FP-POS=3 | | | 1400 Secs (1400 Secs) [==>] | [3] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | SCI (COS.sp.1416844) | (2) SWIFTJ1858 | COS/FUV, TIME-TAG, PSA | G140L 1105 A | BUFFER-TIME=1500; FP-POS=4 | | | 1051 Secs (1051 Secs) [==>] | [3] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Proposal 16066 - Swift J1858 Soft state (52) - Tracing accretion disk winds across the electromagnetic spectrum in BXRBs

Fri Mar 13 20:00:57 GMT 2020

| Visit | Proposal 16066, Swift J1858 Soft state (52), implementation Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100% | | | | | | | | | |
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| Exposures | # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | ACQ (COS.ta.143 2136) | (2) SWIFTJ1858 | COS/NUV, ACQ/IMAGE, PSA | MIRRORB | | | | 360 Secs (360 Secs) [==>] | [1] |
| | 2 | SCI (COS.sp.141 6844) | (2) SWIFTJ1858 | COS/FUV, TIME-TAG, PSA | G140L 1105 A | | BUFFER-TIME=1000; FP-POS=1 | | 2000 Secs (1486 Secs) [==>1486.0 Secs] | [1] |
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| 5 | SCI (COS.sp.141 6844) | (2) SWIFTJ1858 | COS/FUV, TIME-TAG, PSA | G140L 1105 A | | BUFFER-TIME=1500; FP-POS=4 | | 1051 Secs (1051 Secs) [==>] | [3] | |



Proposal 16066 - Swift J1858 Soft state (53) - Tracing accretion disk winds across the electromagnetic spectrum in BXRBs

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| Visit | Proposal 16066, Swift J1858 Soft state (53), implementation Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--------------------------|---|-----------------------|-----------------------------------|---------------|--------|--|-------|--|---|------|--------------------|--------------------------|--------|---------------|-----|------------|---|--|---|-----------------------|--|--|--|--|--|
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| Exposures | # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit | | | | | | | | | | | | | | | | | | |
| | 1 | ACQ (COS.ta.143 2136) | (2) SWIFTJ1858 | COS/NUV, ACQ/IMAGE, PSA | MIRRORB | | | | 360 Secs (360 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | |
| | 2 | SCI (COS.sp.141 6844) | (2) SWIFTJ1858 | COS/FUV, TIME-TAG, PSA | G140L 1105 A | BUFFER-TIME=10 00; FP-POS=1 | | | 2000 Secs (1486 Secs) [==>1486.0 Secs] | [1] | | | | | | | | | | | | | | | | | | |
| | <i>Comments: Other spectral shapes are considered here:</i> COS.sp.1416844 COS.sp.1416867 COS.sp.1416865 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | SCI (COS.sp.141 6844) | (2) SWIFTJ1858 | COS/FUV, TIME-TAG, PSA | G140L 1105 A | BUFFER-TIME=10 00; FP-POS=2 | | | 2500 Secs (2556 Secs) [==>2556.0 Secs] | [2] | | | | | | | | | | | | | | | | | | |
| | 4 | SCI (COS.sp.141 6844) | (2) SWIFTJ1858 | COS/FUV, TIME-TAG, PSA | G140L 1105 A | BUFFER-TIME=13 00; FP-POS=3 | | | 1400 Secs (1400 Secs) [==>] | [3] | | | | | | | | | | | | | | | | | | |
| | 5 | SCI (COS.sp.141 6844) | (2) SWIFTJ1858 | COS/FUV, TIME-TAG, PSA | G140L 1105 A | BUFFER-TIME=15 00; FP-POS=4 | | | 1051 Secs (1051 Secs) [==>] | [3] | | | | | | | | | | | | | | | | | | |

