



# 17824 - Examining the metal diverse interior composition of thick disk and halo planets using polluted white dwarfs

Cycle: 32, Proposal Category: GO

(Availability Mode: SUPPORTED)

## INVESTIGATORS

<i>Name</i>	<i>Institution</i>
<b>Mr. Jamie Williams (PI) (ESA Member) (Contact)</b>	<b>University of Warwick</b>
Dr. Thomas G. Wilson (CoI) (ESA Member) (CoPI)	University of Warwick
Prof. Boris T. Gaensicke (CoI) (ESA Member)	University of Warwick

## 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) WD-J010852.79+165838.57	COS/FUV COS/NUV	1	30-Mar-2026 14:00:24.0	yes
02	(2) WD-J014728.99+235141.34	COS/FUV COS/NUV	3	30-Mar-2026 14:00:25.0	yes
03	(2) WD-J014728.99+235141.34	COS/FUV COS/NUV	3	30-Mar-2026 14:00:26.0	yes
04	(3) WD-J020337.56-045912.90	COS/FUV COS/NUV	1	30-Mar-2026 14:00:26.0	yes
05	(4) WD-J034439.55-061622.25	COS/FUV COS/NUV	5	30-Mar-2026 14:00:27.0	yes
06	(5) WD-J105838.44+224940.23	COS/FUV COS/NUV	4	30-Mar-2026 14:00:28.0	yes

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07	(6) WD-J151732.51+425340.24	COS/FUV COS/NUV	4	30-Mar-2026 14:00:28.0	yes
11	(6) WD-J151732.51+425340.24	COS/FUV COS/NUV	4	30-Mar-2026 14:00:29.0	yes
08	(7) WD-J162532.83+273356.59	COS/FUV COS/NUV	3	30-Mar-2026 14:00:30.0	yes
12	(7) WD-J162532.83+273356.59	COS/FUV COS/NUV	1	30-Mar-2026 14:00:31.0	yes
09	(8) WD-J225513.64+230944.97	COS/FUV COS/NUV	2	30-Mar-2026 14:00:31.0	yes
10	(1) WD-J010852.79+165838.57	COS/FUV COS/NUV	1	30-Mar-2026 14:00:31.0	yes

32 Total Orbits Used

## **ABSTRACT**

Exoplanets are incredibly diverse objects and many are unlike anything we have in the Solar System, including hot-Jupiters, super-Earths and sub-Neptunes. The formation of these bodies depends on material available in the proto-planetary disk. Compositionally-different stars can therefore give rise to compositionally-different exoplanets.

Thick disk and halo stars are metal-poor and alpha-enhanced and initial findings corroborate their exoplanets share the host star composition. However, observations of main sequence stars can only give densities and compositions are inferred using models, leading to large degeneracies.

If an object is accreted onto a white dwarf, their pure hydrogen or helium atmospheres becomes polluted. This allows us to directly measure the composition of the accreted body using spectroscopic observations. This method had been incredibly successful when applied to thin disk stars and can reveal much more information about the interiors of exoplanets compared to only density,

We propose targeting thick disk and halo polluted white dwarfs to investigate the chemical composition of exoplanets orbiting thick disk and halo stars. This study will probe their interiors using a method never applied to thick disk and halo exoplanets. We will be able to uncover the effects that

galactic chemical evolution and galactic location have on what kind of exoplanets form.

### **OBSERVING DESCRIPTION**

These HST observations will obtain COS/G130M FUV spectroscopy of eight hydrogen-dominated white dwarfs, which are located in the thick disk or halo, revealed by kinematic analysis.

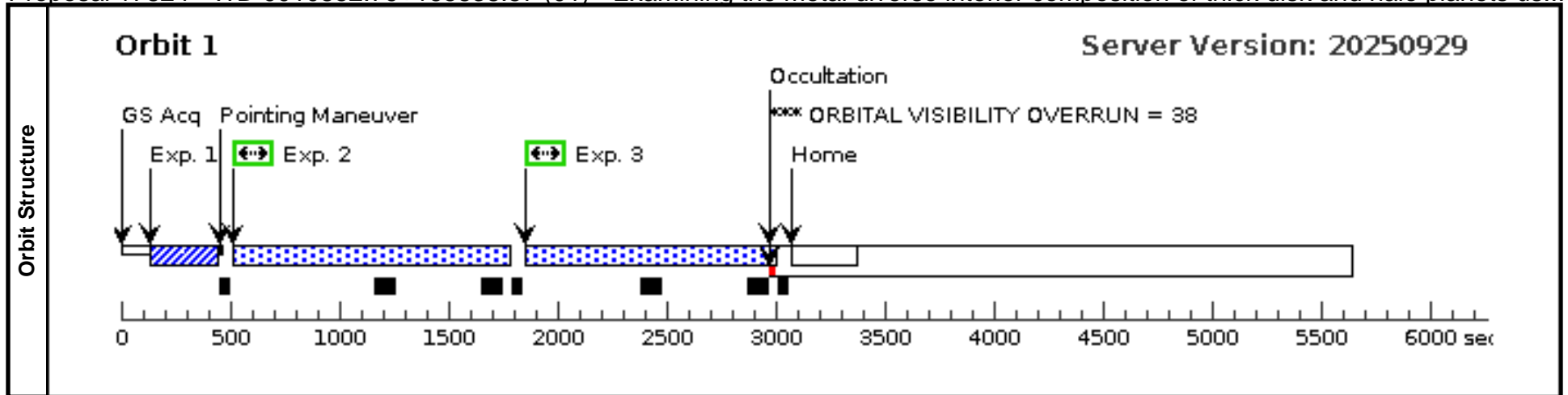
We use exposure times such that we aim for  $S/N = 30$  at 1310Å, with a central wavelength of 1291Å and exposure times split equally across FP-POS 3 and 4. For targets with 4 or more orbits, we also observe with a central wavelength of 1222Å with FP-POS 1,2,3,4 for more blue coverage.

The ETC simulations are carried out using spectra generated from models for  $T_{\text{eff}}$  and  $\log g$  of the white dwarfs from the the Gentile-Fusillo (2021) white dwarf catalogue from Gaia DR3.

Proposal 17824 - WD-J010852.79+165838.57 (01) - Examining the metal diverse interior composition of thick disk and halo planets us...

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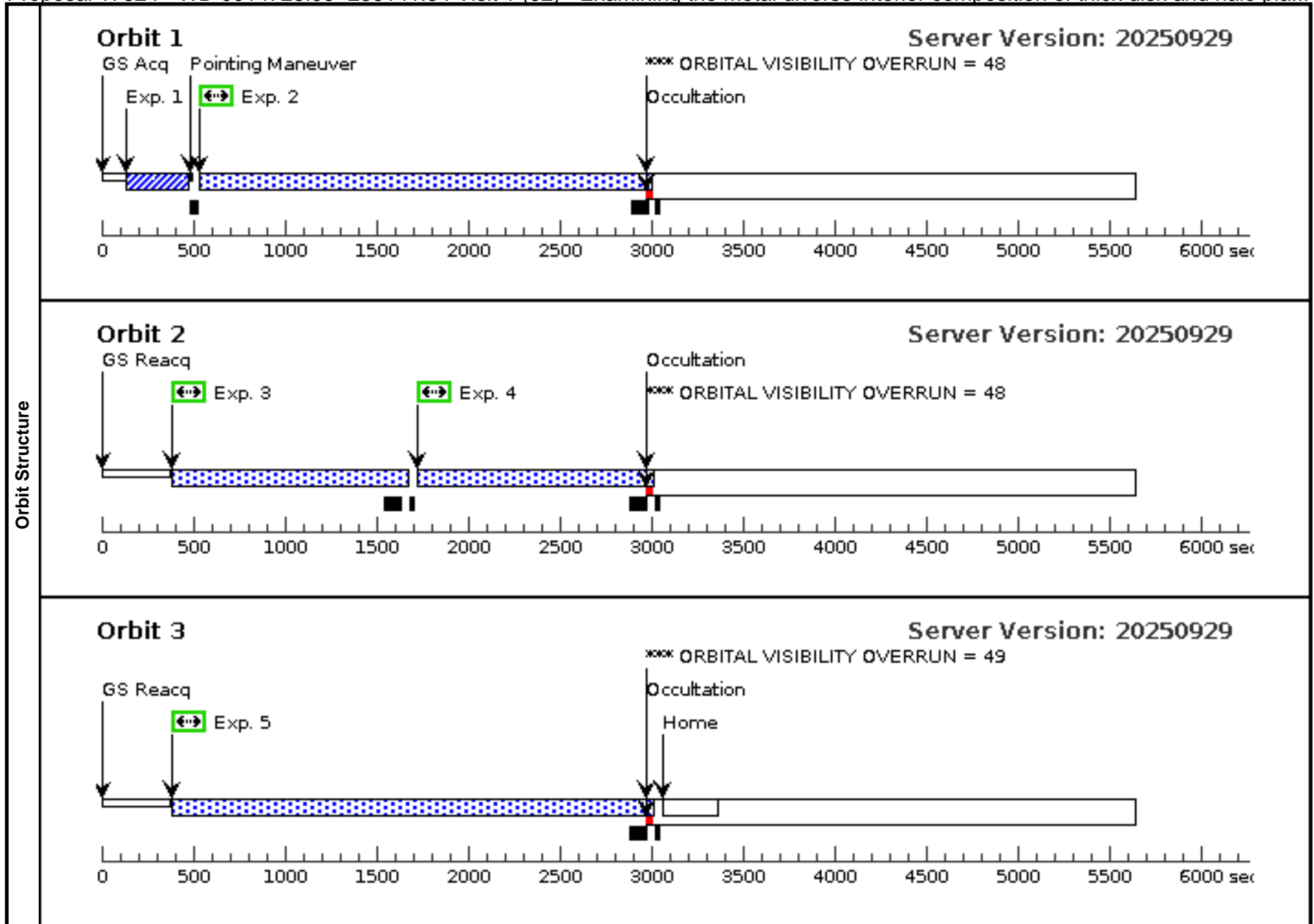
<b>Visit</b>	Proposal 17824, WD-J010852.79+165838.57 (01), failed <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																				
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Proposal 17824 - WD-J014728.99+235141.34 Visit 1 (02) - Examining the metal diverse interior composition of thick disk and halo pla...

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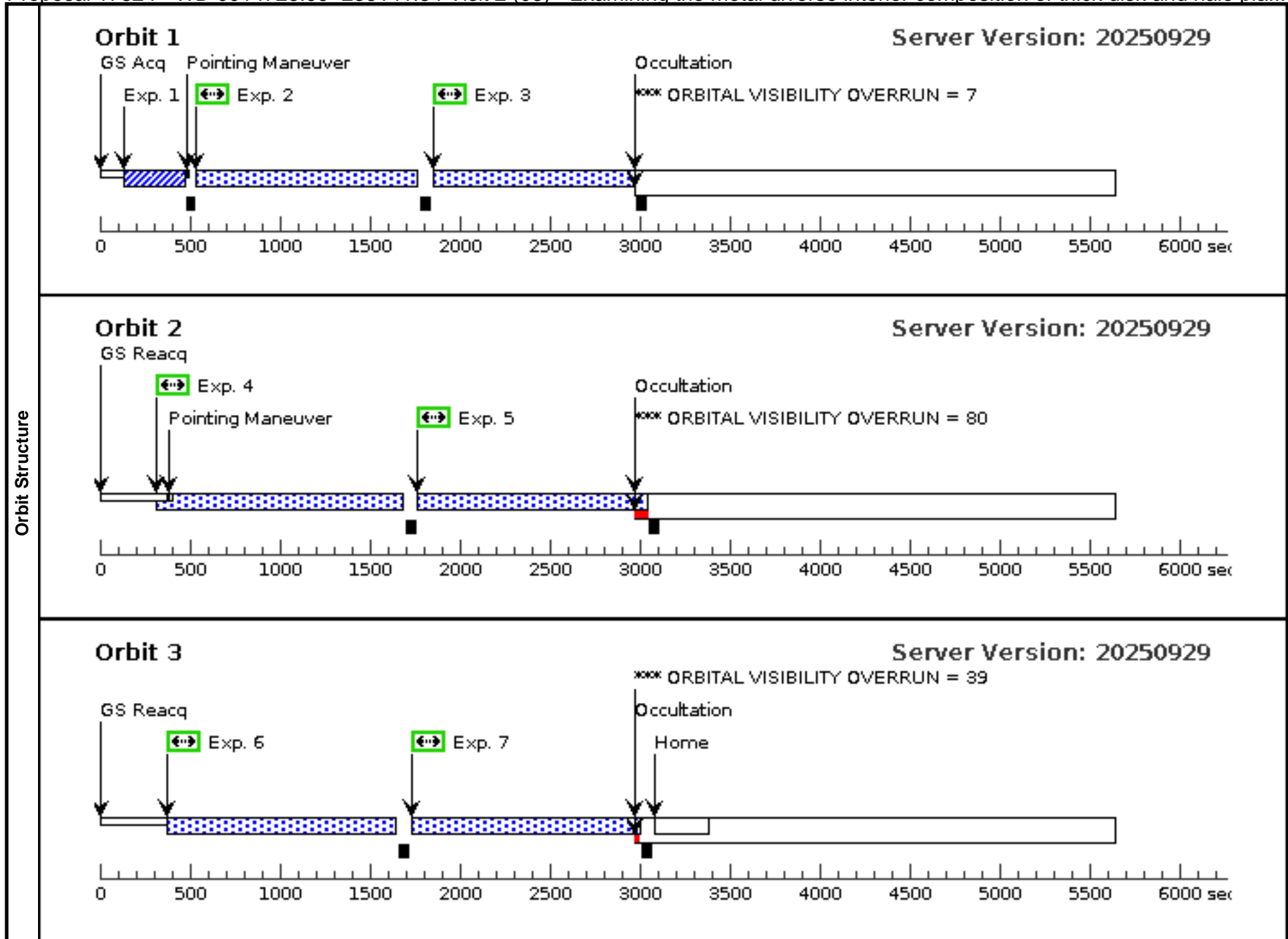
<b>Visit</b>	Proposal 17824, WD-J014728.99+235141.34 Visit 1 (02), completed <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
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	(2)	WD-J014728.99+235141.34	RA: 01 47 28.9883 (26.8707846d) Dec: +23 51 41.34 (23.86148d) Equinox: J2000	Proper Motion RA: 38.963 mas/yr Proper Motion Dec: -25.118 mas/yr Parallax: 0.0040707" Epoch of Position: 2000		V=18.02	Reference Frame: ICRS				
Comments: $T_{eff} = 20020$ No objects in Gaia around 8 arcseconds Category=STAR Description=[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>	
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Proposal 17824 - WD-J014728.99+235141.34 Visit 2 (03) - Examining the metal diverse interior composition of thick disk and halo pla...

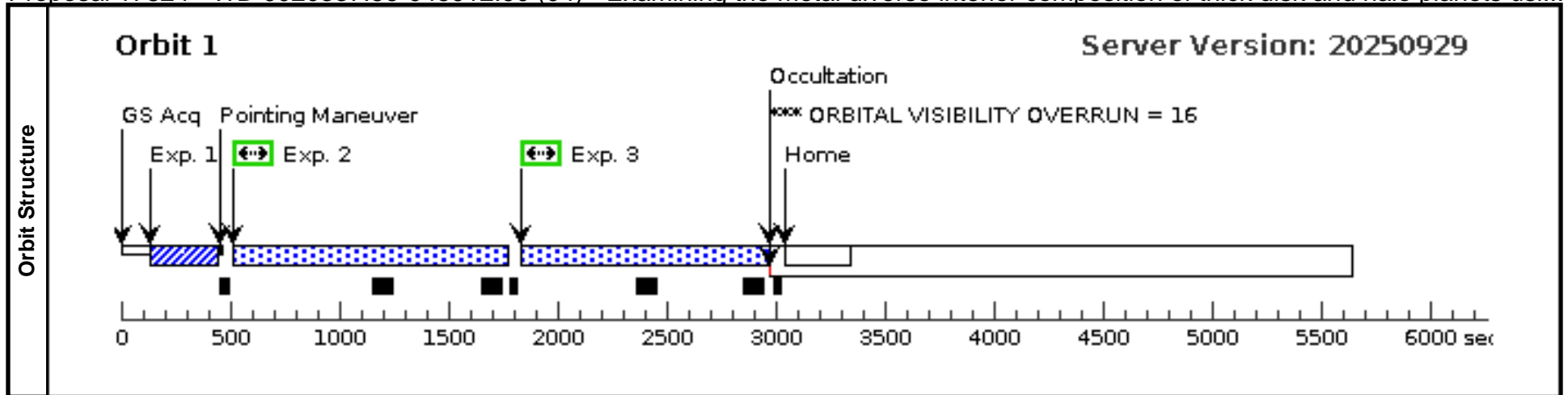
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	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																																																																																																												
	1	ACQ1 (COS.ta.193 0154)	(2) WD-J014728.99 +235141.34	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				15 Secs (15 Secs) [==>]	[1]																																																																																																																																												
	2	EXP1 (COS.sp.193 6436)	(2) WD-J014728.99 +235141.34	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=29 87			1000 Secs (1065 Secs) [==>1065.0 Secs ]	[1]																																																																																																																																												
	Comments: Total S/N = 31																																																																																																																																																					
	3	EXP2 (COS.sp.193 6436)	(2) WD-J014728.99 +235141.34	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=29 87			1000 Secs (1065 Secs) [==>1065.0 Secs ]	[1]																																																																																																																																												
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	4	EXP3 (COS.sp.193 6437)	(2) WD-J014728.99 +235141.34	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=29 87			1000 Secs (1225 Secs) [==>1225.0 Secs ]	[2]																																																																																																																																												
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	5	EXP4 (COS.sp.193 6437)	(2) WD-J014728.99 +235141.34	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=29 87			1000 Secs (1225 Secs) [==>1225.0 Secs ]	[2]																																																																																																																																												
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6	EXP5 (COS.sp.193 6438)	(2) WD-J014728.99 +235141.34	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=29 87			1000 Secs (1220 Secs) [==>1220.0 Secs ]	[3]																																																																																																																																													
Comments: Total S/N = 31																																																																																																																																																						
7	EXP6 (COS.sp.193 6438)	(2) WD-J014728.99 +235141.34	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=29 87			1000 Secs (1220 Secs) [==>1220.0 Secs ]	[3]																																																																																																																																													
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Proposal 17824 - WD-J020337.56-045912.90 (04) - Examining the metal diverse interior composition of thick disk and halo planets usi...

<b>Visit</b>	Proposal 17824, WD-J020337.56-045912.90 (04), completed <span style="float: right;">Mon Mar 30 18:00:32 GMT 2026</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																				
	<b>Diagnostics</b> (WD-J020337.56-045912.90 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																				
<b>Fixed Targets</b>	<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>WD-J020337.56-045912.90 Alt Name1: G-159-31</td> <td>RA: 02 03 37.5631 (30.9065129d) Dec: -04 59 12.90 (-4.98692d) Equinox: J2000</td> <td>Proper Motion RA: 159.72 mas/yr Proper Motion Dec: -180.378000050041 mas/yr Parallax: 0.0055758" Epoch of Position: 2000</td> <td>V=16.27</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Teff = 25022</i></p> <p><i>No objects in Gaia around 8 arcseconds</i>  <i>Category=STAR</i>  <i>Description=[DA]</i>  <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(3)	WD-J020337.56-045912.90 Alt Name1: G-159-31	RA: 02 03 37.5631 (30.9065129d) Dec: -04 59 12.90 (-4.98692d) Equinox: J2000	Proper Motion RA: 159.72 mas/yr Proper Motion Dec: -180.378000050041 mas/yr Parallax: 0.0055758" Epoch of Position: 2000	V=16.27	Reference Frame: ICRS																																															
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(3)	WD-J020337.56-045912.90 Alt Name1: G-159-31	RA: 02 03 37.5631 (30.9065129d) Dec: -04 59 12.90 (-4.98692d) Equinox: J2000	Proper Motion RA: 159.72 mas/yr Proper Motion Dec: -180.378000050041 mas/yr Parallax: 0.0055758" Epoch of Position: 2000	V=16.27	Reference Frame: ICRS																																																																
<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>ACQ1 (COS.ta.193 0132)</td> <td>(3) WD-J020337.56-045912.90</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>3 Secs (3 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>EXP1 (COS.sp.193 1808)</td> <td>(3) WD-J020337.56-045912.90</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>BUFFER-TIME=49 1; FP-POS=3</td> <td></td> <td></td> <td>1000 Secs (1091 Secs) [==&gt;1091.0 Secs ]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: Total S/N = 33</i></td> </tr> <tr> <td>3</td> <td>EXP2 (COS.sp.193 1808)</td> <td>(3) WD-J020337.56-045912.90</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>BUFFER-TIME=49 1; FP-POS=4</td> <td></td> <td></td> <td>1000 Secs (1091 Secs) [==&gt;1091.0 Secs ]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: Total S/N = 33</i></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	ACQ1 (COS.ta.193 0132)	(3) WD-J020337.56-045912.90	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				3 Secs (3 Secs) [==>]	[1]	2	EXP1 (COS.sp.193 1808)	(3) WD-J020337.56-045912.90	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=49 1; FP-POS=3			1000 Secs (1091 Secs) [==>1091.0 Secs ]	[1]	<i>Comments: Total S/N = 33</i>										3	EXP2 (COS.sp.193 1808)	(3) WD-J020337.56-045912.90	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=49 1; FP-POS=4			1000 Secs (1091 Secs) [==>1091.0 Secs ]	[1]	<i>Comments: Total S/N = 33</i>									
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2	EXP1 (COS.sp.193 1808)	(3) WD-J020337.56-045912.90	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=49 1; FP-POS=3			1000 Secs (1091 Secs) [==>1091.0 Secs ]	[1]																																																												
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<i>Comments: Total S/N = 33</i>																																																																					

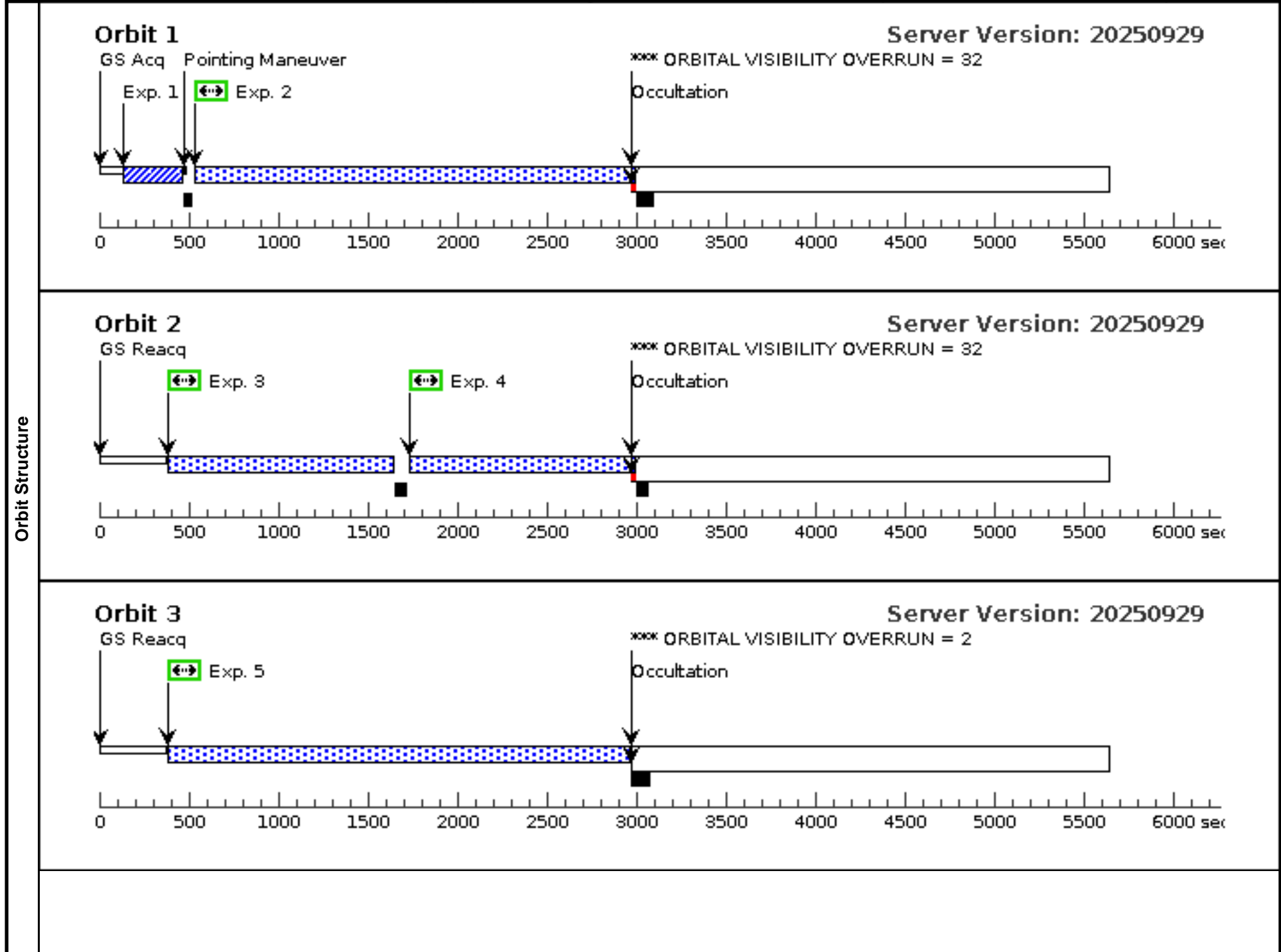


Proposal 17824 - WD-J034439.55-061622.25 (05) - Examining the metal diverse interior composition of thick disk and halo planets usi...

<b>Visit</b>	Proposal 17824, WD-J034439.55-061622.25 (05), completed <span style="float: right;">Mon Mar 30 18:00:32 GMT 2026</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																
	<b>Diagnosics</b> (WD-J034439.55-061622.25 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD-J034439.55-061622.25 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD-J034439.55-061622.25 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD-J034439.55-061622.25 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD-J034439.55-061622.25 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																
<b>Fixed Targets</b>	<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>(4)</td> <td>WD-J034439.55-061622.25</td> <td>RA: 03 44 39.5542 (56.1648092d) Dec: -06 16 22.26 (-6.27285d) Equinox: J2000</td> <td>Proper Motion RA: 34.787 mas/yr Proper Motion Dec: -21.512 mas/yr Parallax: 0.004674" Epoch of Position: 2000</td> <td>V=17.79</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(4)	WD-J034439.55-061622.25	RA: 03 44 39.5542 (56.1648092d) Dec: -06 16 22.26 (-6.27285d) Equinox: J2000	Proper Motion RA: 34.787 mas/yr Proper Motion Dec: -21.512 mas/yr Parallax: 0.004674" Epoch of Position: 2000	V=17.79	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(4)	WD-J034439.55-061622.25	RA: 03 44 39.5542 (56.1648092d) Dec: -06 16 22.26 (-6.27285d) Equinox: J2000	Proper Motion RA: 34.787 mas/yr Proper Motion Dec: -21.512 mas/yr Parallax: 0.004674" Epoch of Position: 2000	V=17.79	Reference Frame: ICRS												
Comments: $T_{\text{eff}} = 20729$ No objects in Gaia around 8 arcseconds Category=STAR Description=[DA] Extended=NO																	

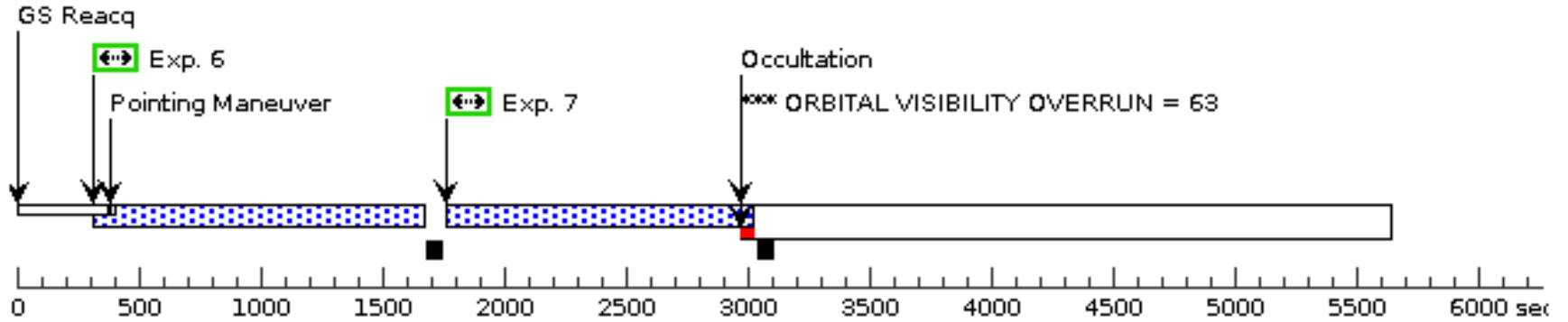
Proposal 17824 - WD-J034439.55-061622.25 (05) - Examining the metal diverse interior composition of thick disk and halo planets usi...

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
<b>Exposures</b>	1	ACQ1 (COS.ta.193 0165)	(4) WD-J034439.55-061622.25	COS/NUV, ACQ/IMAGE, PSA	MIRRORB			12 Secs (12 Secs) [==>]	[1]
	2	EXP1 (COS.sp.193 6439)	(4) WD-J034439.55-061622.25	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=27 21		2000 Secs (2293 Secs) [==>2293.0 Secs ]	[1]
	<i>Comments: Total S/N = 31</i>								
	3	EXP2 (COS.sp.193 6440)	(4) WD-J034439.55-061622.25	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=27 21		1000 Secs (1211 Secs) [==>1211.0 Secs ]	[2]
	<i>Comments: Total S/N = 31</i>								
	4	EXP3 (COS.sp.193 6440)	(4) WD-J034439.55-061622.25	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=27 21		1000 Secs (1211 Secs) [==>1211.0 Secs ]	[2]
	<i>Comments: Total S/N = 31</i>								
	5	EXP4 (COS.sp.193 6441)	(4) WD-J034439.55-061622.25	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=27 21		2000 Secs (2535 Secs) [==>2535.0 Secs ]	[3]
	<i>Comments: Total S/N = 31</i>								
6	EXP5 (COS.sp.193 6442)	(4) WD-J034439.55-061622.25	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=27 21		1000 Secs (1211 Secs) [==>1211.0 Secs ]	[4]	
<i>Comments: Total S/N = 31</i>									
7	EXP6 (COS.sp.193 6442)	(4) WD-J034439.55-061622.25	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=27 21		1000 Secs (1211 Secs) [==>1211.0 Secs ]	[4]	
<i>Comments: Total S/N = 31</i>									
8	EXP7 (COS.sp.193 6442)	(4) WD-J034439.55-061622.25	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=27 21		1000 Secs (1211 Secs) [==>1211.0 Secs ]	[5]	
<i>Comments: Total S/N = 31</i>									
9	EXP8 (COS.sp.193 6442)	(4) WD-J034439.55-061622.25	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=27 21		1000 Secs (1211 Secs) [==>1211.0 Secs ]	[5]	
<i>Comments: Total S/N = 31</i>									



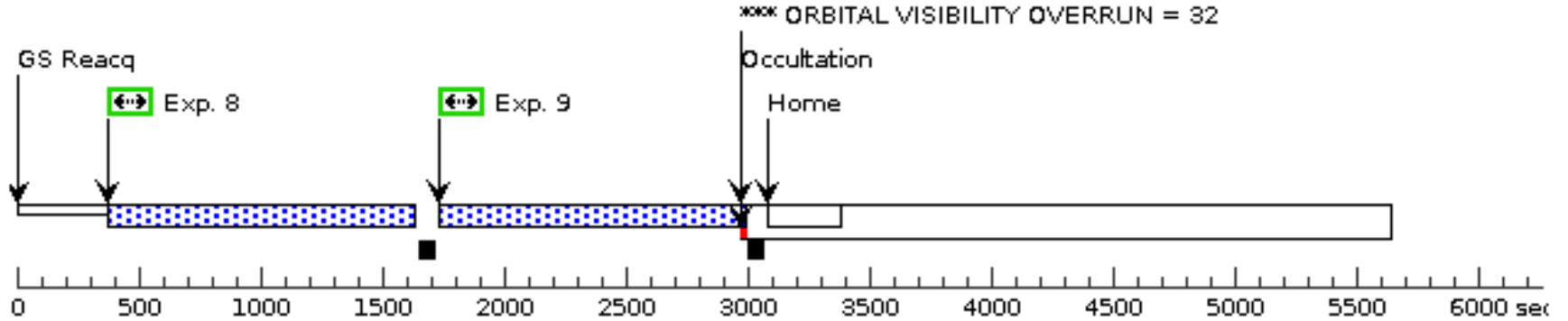
### Orbit 4

Server Version: 20250929



### Orbit 5

Server Version: 20250929

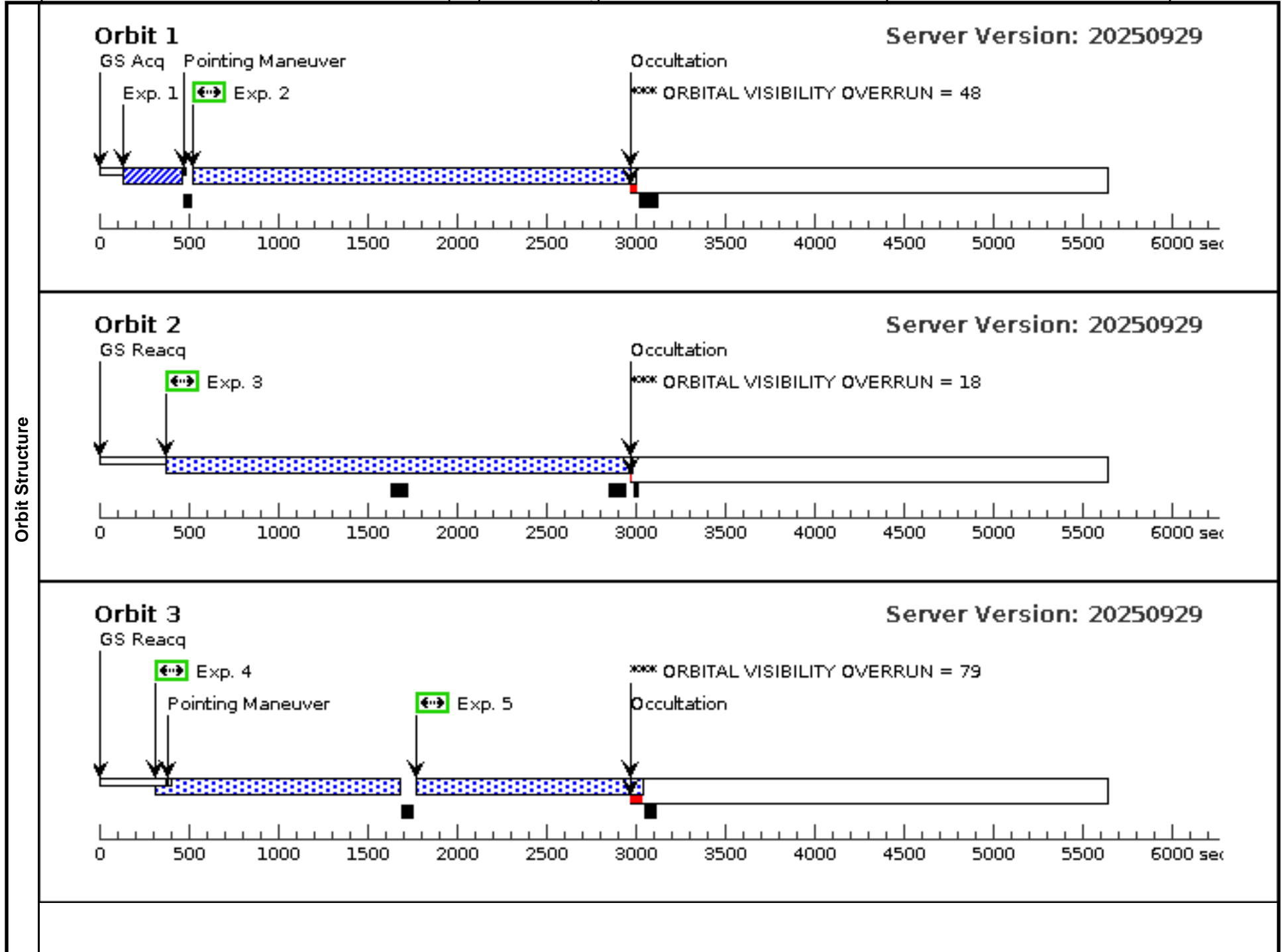


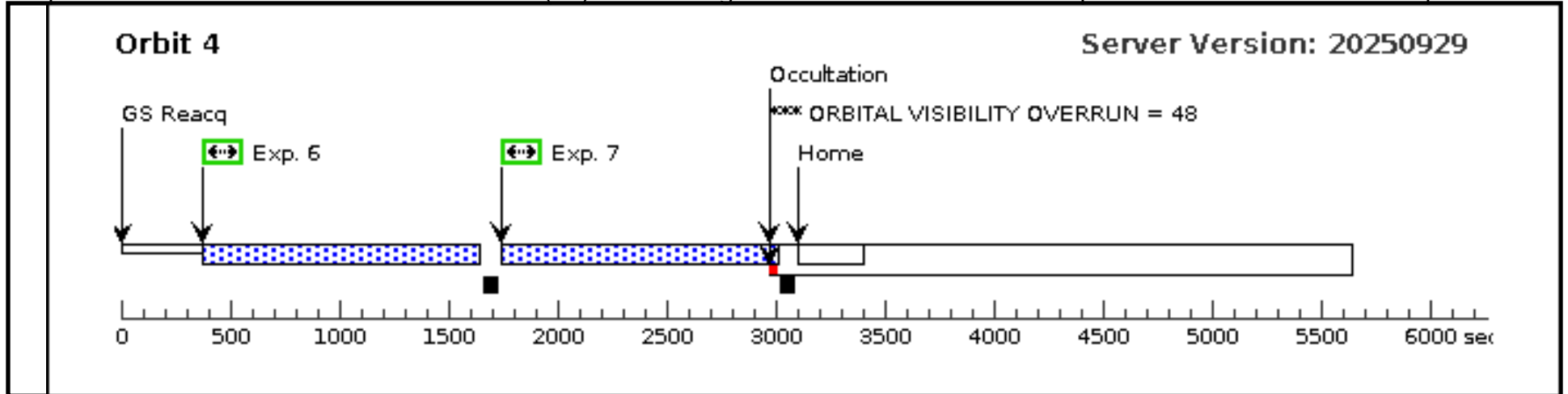
Proposal 17824 - WD-J105838.44+224940.23 (06) - Examining the metal diverse interior composition of thick disk and halo planets us...

<b>Visit</b>	Proposal 17824, WD-J105838.44+224940.23 (06), completed <span style="float: right;">Mon Mar 30 18:00:32 GMT 2026</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																
	<b>Diagnosics</b> (WD-J105838.44+224940.23 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD-J105838.44+224940.23 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD-J105838.44+224940.23 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD-J105838.44+224940.23 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																
<b>Fixed Targets</b>	<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>(5)</td> <td>WD-J105838.44+224940.23 Alt Name1: TON-558</td> <td>RA: 10 58 38.4439 (164.6601829d) Dec: +22 49 40.23 (22.82784d) Equinox: J2000</td> <td>Proper Motion RA: -18.991 mas/yr Proper Motion Dec: -19.99000005525886 mas/yr Parallax: 0.0053998" Epoch of Position: 2000</td> <td>V=17.02</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(5)	WD-J105838.44+224940.23 Alt Name1: TON-558	RA: 10 58 38.4439 (164.6601829d) Dec: +22 49 40.23 (22.82784d) Equinox: J2000	Proper Motion RA: -18.991 mas/yr Proper Motion Dec: -19.99000005525886 mas/yr Parallax: 0.0053998" Epoch of Position: 2000	V=17.02	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(5)	WD-J105838.44+224940.23 Alt Name1: TON-558	RA: 10 58 38.4439 (164.6601829d) Dec: +22 49 40.23 (22.82784d) Equinox: J2000	Proper Motion RA: -18.991 mas/yr Proper Motion Dec: -19.99000005525886 mas/yr Parallax: 0.0053998" Epoch of Position: 2000	V=17.02	Reference Frame: ICRS												
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Teff = 18542</i></p> <p><i>No objects in Gaia around 8 arcseconds</i>  <i>Category=STAR</i>  <i>Description=[DA]</i>  <i>Extended=NO</i></p>																	

Proposal 17824 - WD-J105838.44+224940.23 (06) - Examining the metal diverse interior composition of thick disk and halo planets us...

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	ACQ 1 (COS.ta.193 0151)	(5) WD-J105838.44 +224940.23	COS/NUV, ACQ/IMAGE, PSA	MIRRORB					10 Secs (10 Secs) [==>]	[1]
	2	EXP1 (COS.sp.193 1876)	(5) WD-J105838.44 +224940.23	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=23 48; FP-POS=3			1000 Secs (2315 Secs) [==>2315.0 Secs ]	[1]	
	<i>Comments: Total S/N = 33</i>										
	3	EXP2 (COS.sp.193 6445)	(5) WD-J105838.44 +224940.23	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=12 22; FP-POS=4			1000 Secs (2553 Secs) [==>2553.0 Secs ]	[2]	
	<i>Comments: Total S/N = 33</i>										
	4	EXP3 (COS.sp.193 6444)	(5) WD-J105838.44 +224940.23	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=23 48; FP-POS=1			1000 Secs (1220 Secs) [==>1220.0 Secs ]	[3]	
	<i>Comments: Total S/N = 33</i>										
5	EXP4 (COS.sp.193 6444)	(5) WD-J105838.44 +224940.23	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=23 48; FP-POS=2			1000 Secs (1220 Secs) [==>1220.0 Secs ]	[3]		
<i>Comments: Total S/N = 33</i>											
6	EXP5 (COS.sp.193 6444)	(5) WD-J105838.44 +224940.23	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=23 48; FP-POS=3			1000 Secs (1220 Secs) [==>1220.0 Secs ]	[4]		
<i>Comments: Total S/N = 33</i>											
7	EXP6 (COS.sp.193 6444)	(5) WD-J105838.44 +224940.23	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=23 48; FP-POS=4			1000 Secs (1220 Secs) [==>1220.0 Secs ]	[4]		
<i>Comments: Total S/N = 33</i>											

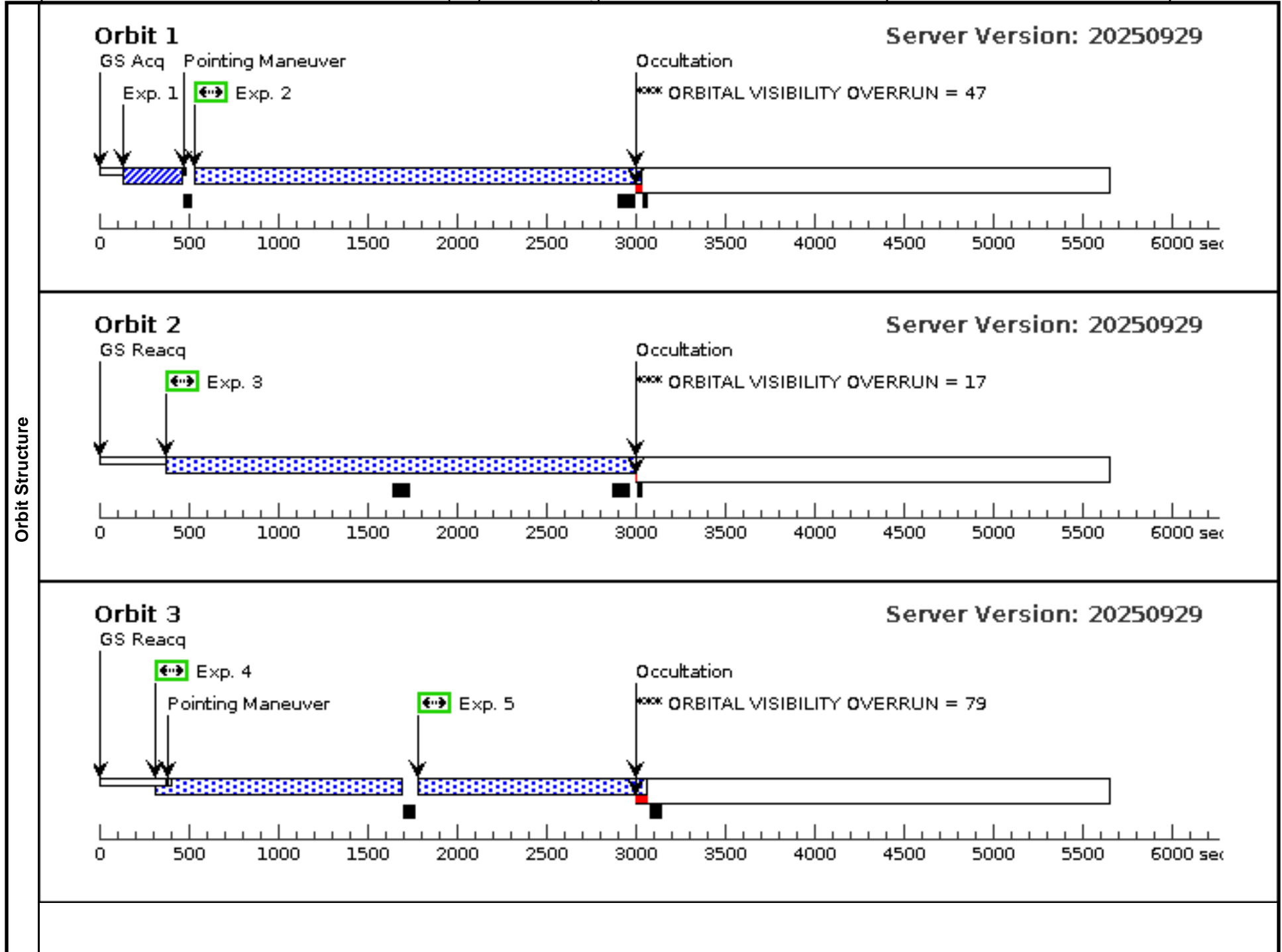


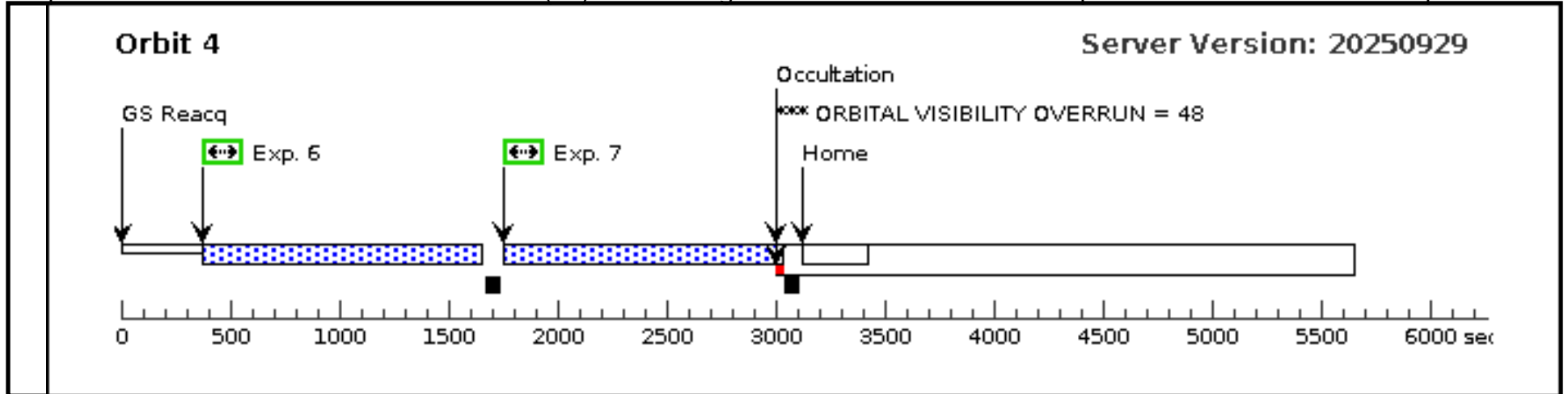


Proposal 17824 - WD-J151732.51+425340.24 (07) - Examining the metal diverse interior composition of thick disk and halo planets us...

Mon Mar 30 18:00:32 GMT 2026

<b>Visit</b>	Proposal 17824, WD-J151732.51+425340.24 (07), failed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																																																																																																				
	(WD-J151732.51+425340.24 (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD-J151732.51+425340.24 (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD-J151732.51+425340.24 (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD-J151732.51+425340.24 (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																																																																																																				
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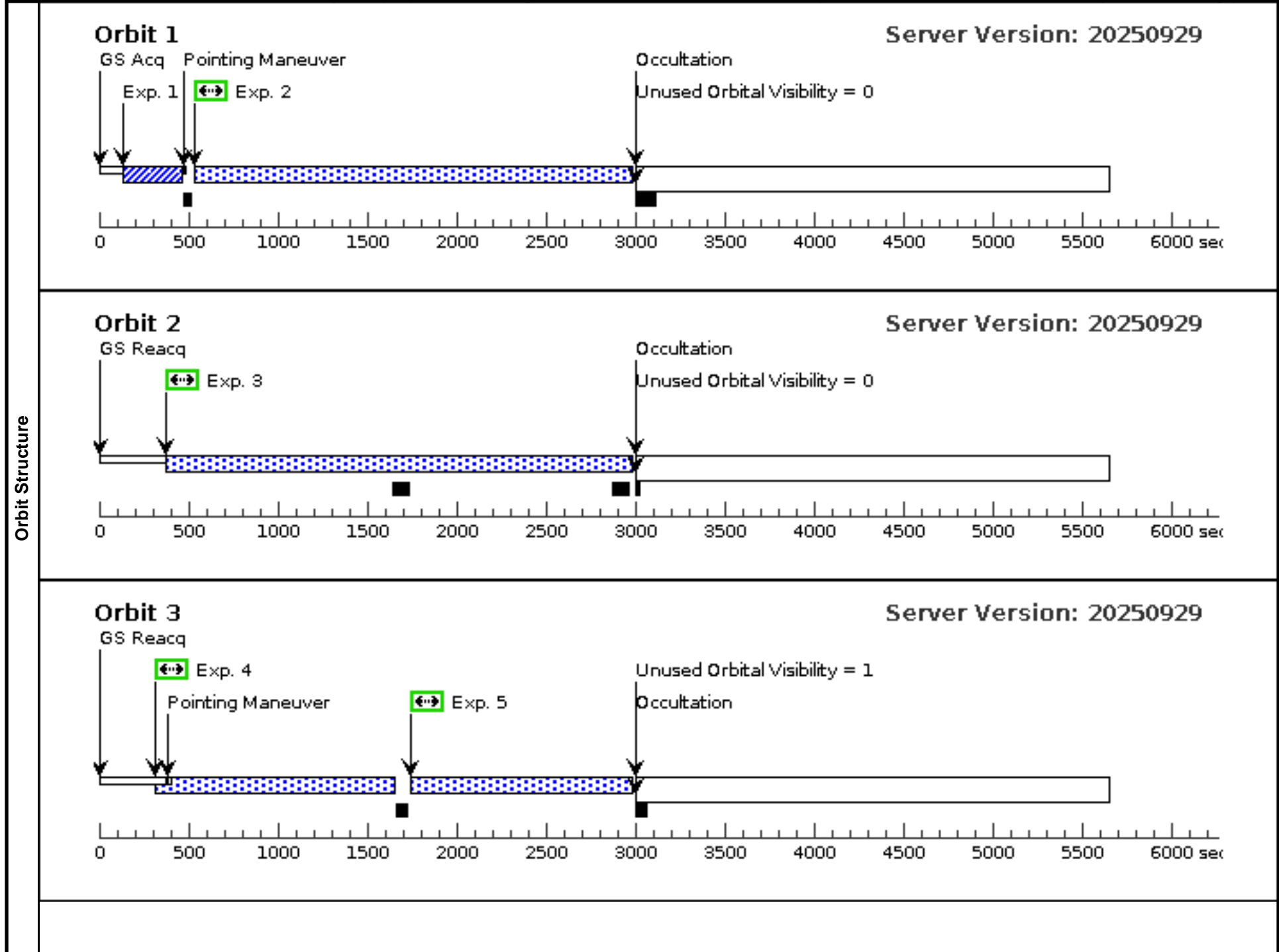


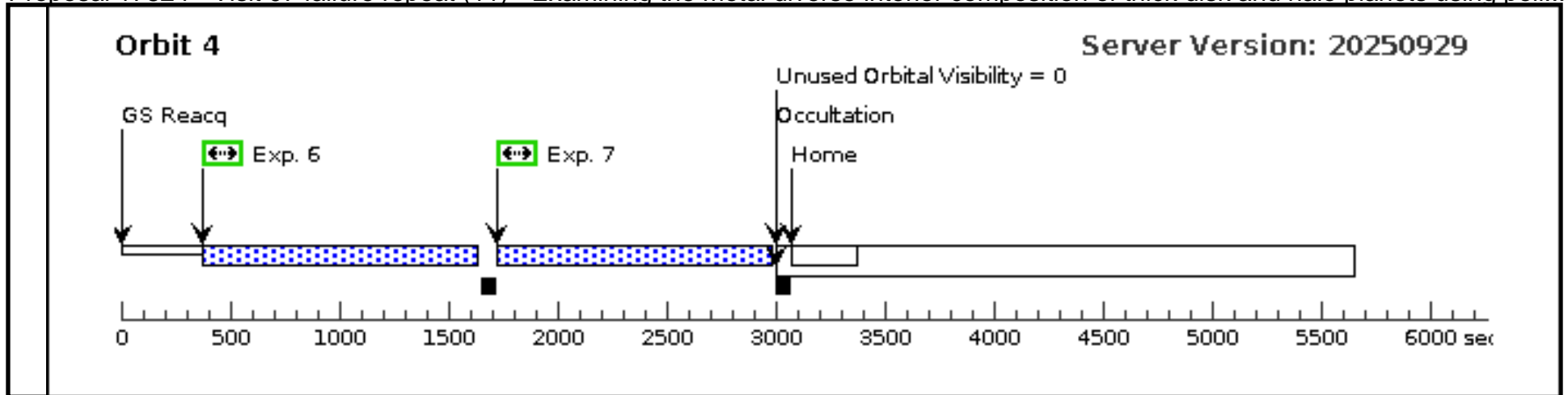


Proposal 17824 - Visit 07 failure repeat (11) - Examining the metal diverse interior composition of thick disk and halo planets using poll...

Mon Mar 30 18:00:32 GMT 2026

Visit	<b>Proposal 17824, Visit 07 failure repeat (11)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) Comments: Full repeat of visit 07 (four orbits).																						
	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>(6)</td> <td>WD- J151732.51+425340.24</td> <td>RA: 15 17 32.5133 (229.3854721d) Dec: +42 53 40.23 (42.89451d) Equinox: J2000</td> <td>Proper Motion RA: -24.956 mas/yr Proper Motion Dec: 25.881 mas/yr Parallax: 0.0034636" Epoch of Position: 2000</td> <td>V=17.78</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6">                     Comments: Teff = 22495                      No objects in Gaia around 8 arcseconds                      Category=STAR                      Description=[DA]                      Extended=NO                 </td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(6)	WD- J151732.51+425340.24	RA: 15 17 32.5133 (229.3854721d) Dec: +42 53 40.23 (42.89451d) Equinox: J2000	Proper Motion RA: -24.956 mas/yr Proper Motion Dec: 25.881 mas/yr Parallax: 0.0034636" Epoch of Position: 2000	V=17.78	Reference Frame: ICRS	Comments: Teff = 22495 No objects in Gaia around 8 arcseconds Category=STAR Description=[DA] Extended=NO				
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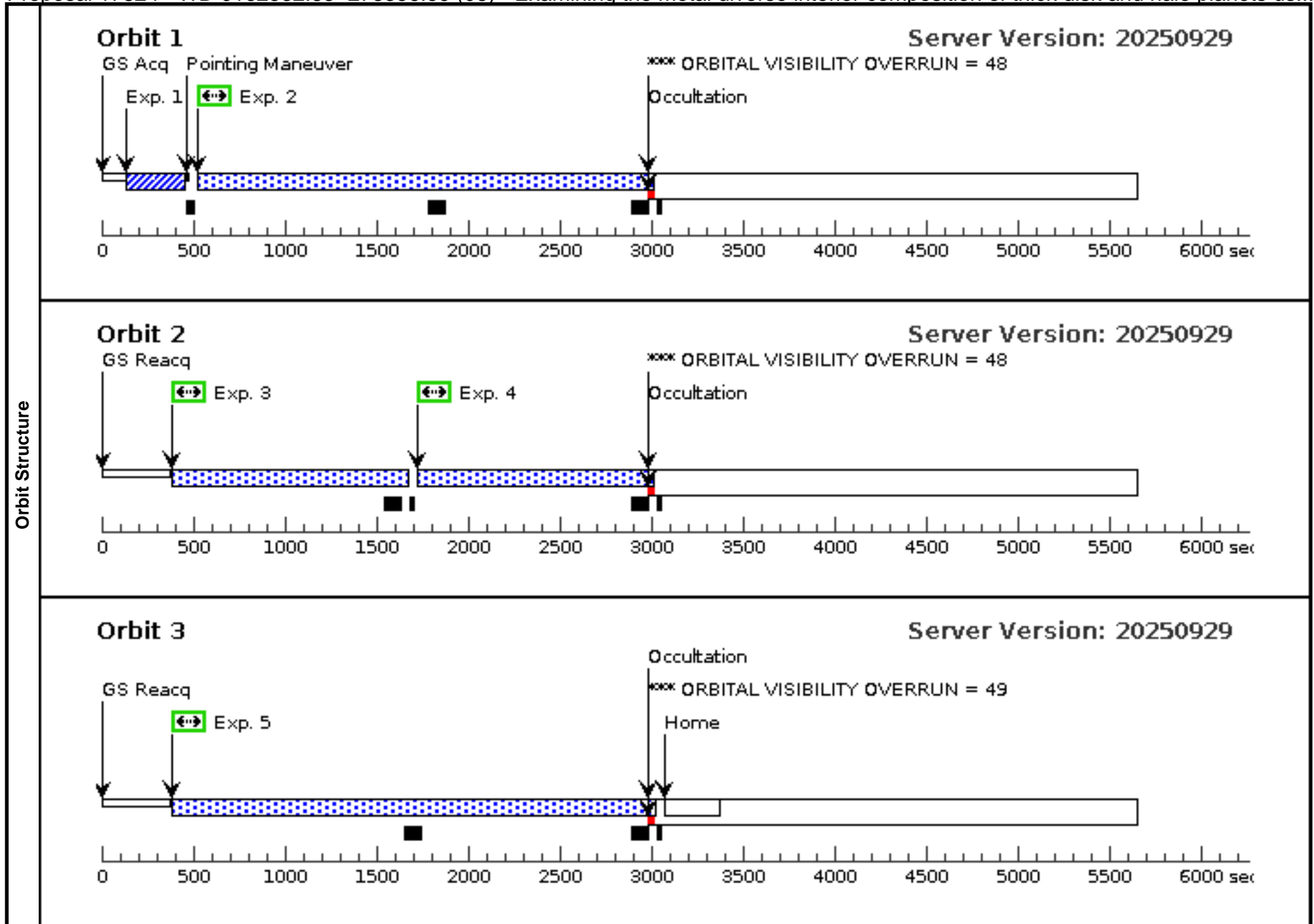




Proposal 17824 - WD-J162532.83+273356.59 (08) - Examining the metal diverse interior composition of thick disk and halo planets us...

Mon Mar 30 18:00:32 GMT 2026

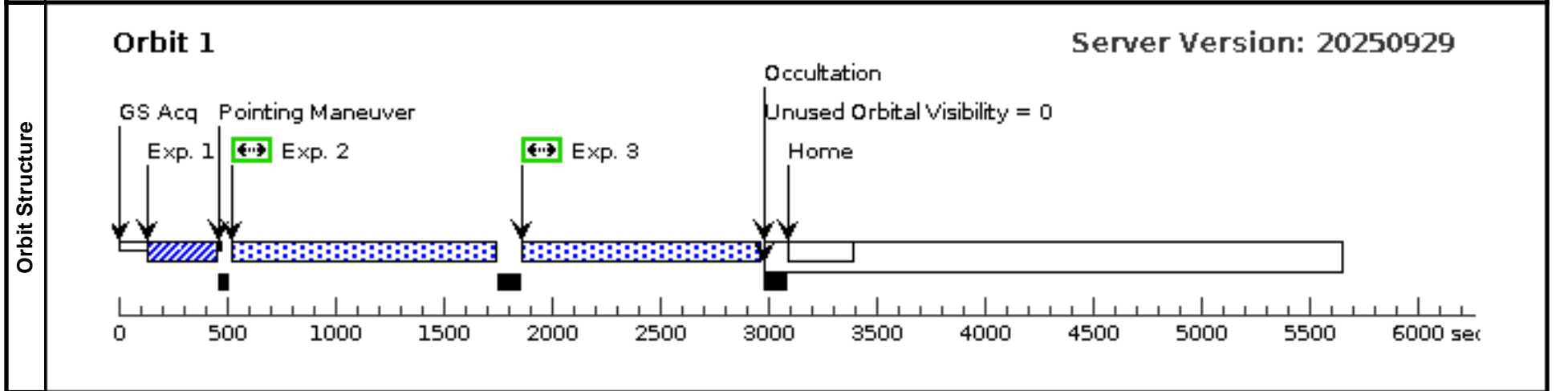
<b>Visit</b>	<b>Proposal 17824, WD-J162532.83+273356.59 (08), failed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																																																													
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<b>Visit</b>	<b>Proposal 17824, Visit 08 failure repeat (12)</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: COS/FUV, COS/NUV				
	Special Requirements: (none)				
<i>Comments: Repeat of first orbit of visit 08.</i>					

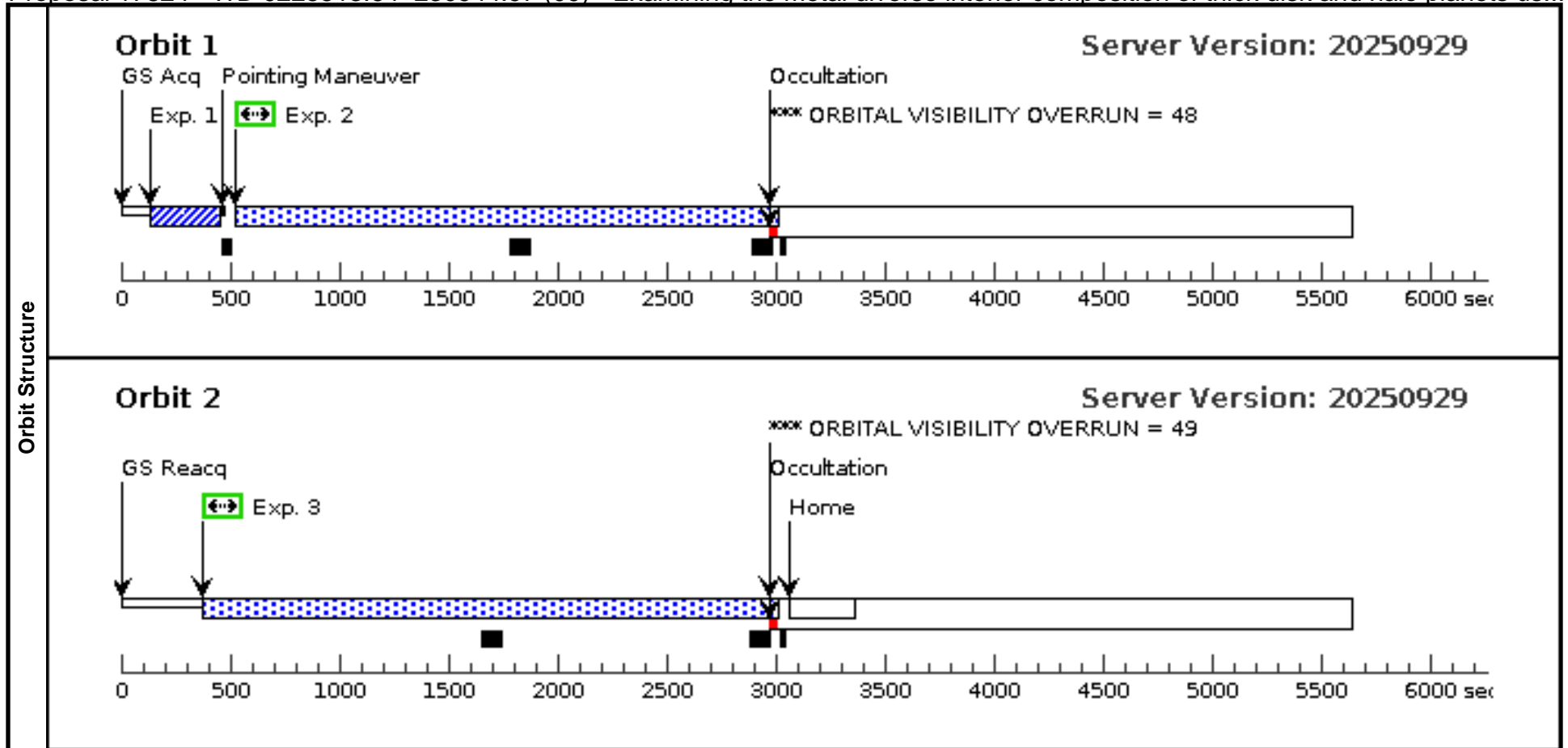
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(7)	WD- J162532.83+273356.59 Alt Name1: GALEX- J162532.8+273356	RA: 16 25 32.8299 (246.3867913d) Dec: +27 33 56.59 (27.56572d) Equinox: J2000	Proper Motion RA: 35.958 mas/yr Proper Motion Dec: -35.27800004121673 mas/yr Parallax: 0.0053548" Epoch of Position: 2000	V=17.15	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						
<i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i>						
<i>T<sub>eff</sub> = 19846</i>						
<i>No objects in Gaia around 8 arcseconds</i>						
<i>Category=STAR</i>						
<i>Description=[DA]</i>						
<i>Extended=NO</i>						

<b>Exposures</b>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	ACQ1 (COS.ta.193 0134)	(7) WD-J162532.83 +273356.59	COS/NUV, ACQ/IMAGE, PSA	MIRRORB					8 Secs (8 Secs) [==>]	[1]
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	<i>Comments: Total S/N = 30</i>										
3	EXP2 (COS.sp.193 6449)	(7) WD-J162532.83 +273356.59	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=11 09; FP-POS=4			1000 Secs (1047 Secs) [==>1047.0 Secs ]	[1]		
<i>Comments: Total S/N = 30</i>											



Proposal 17824 - WD-J225513.64+230944.97 (09) - Examining the metal diverse interior composition of thick disk and halo planets us...

<b>Visit</b>	Proposal 17824, WD-J225513.64+230944.97 (09), completed <span style="float: right;">Mon Mar 30 18:00:33 GMT 2026</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																				
	<b>Diagnosics</b> (WD-J225513.64+230944.97 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD-J225513.64+230944.97 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																				
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Proposal 17824 - visit 01 failure repeat (10) - Examining the metal diverse interior composition of thick disk and halo planets using poll...

<b>Visit</b>	<b>Proposal 17824, visit 01 failure repeat (10), completed</b> <span style="float: right;">Mon Mar 30 18:00:33 GMT 2026</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																				
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