



17209 - Circumgalactic Gas on the Outskirts of the Local Group: the Halo of Sextans B

Cycle: 30, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Andrew J. Fox (PI) (ESA Member) (Contact)	Space Telescope Science Institute - ESA
Dr. Jason Tumlinson (CoI) (AdminUSPI)	Space Telescope Science Institute
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Dr. Sanchayeeta Borthakur (CoI)	Arizona State University
Ms. Jacqueline Monkiewicz (CoI)	Arizona State University
Dr. Trisha Ashley (CoI)	Space Telescope Science Institute
Dr. Frances H. Cashman (CoI)	Presbyterian College
Dr. Nicolas Lehner (CoI)	University of Notre Dame
Dr. David M. French (CoI)	Space Telescope Science Institute

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) SDSSJ100035.48+052428.5	COS/FUV COS/NUV	4	21-Jan-2025 10:00:12.0	yes
11	(1) SDSSJ100035.48+052428.5	COS/FUV COS/NUV	4	21-Jan-2025 10:00:13.0	yes

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21	(1) SDSSJ100035.48+052428.5	COS/FUV COS/NUV	2	21-Jan-2025 10:00:14.0	yes
02	(1) SDSSJ100035.48+052428.5	COS/FUV COS/NUV	4	21-Jan-2025 10:00:14.0	yes
12	(1) SDSSJ100035.48+052428.5	COS/FUV COS/NUV	4	21-Jan-2025 10:00:15.0	yes

18 Total Orbits Used

ABSTRACT

Irregular galaxies are gas-rich, star-forming, and abundant. Around 40 exist in the Local Group (LG) where their gaseous halos cover large angular sizes on the sky, yet only a handful have published CGM detections. Furthermore, we have little knowledge of the CGM at the outer frontier of the Local Group at distances above 1 Mpc, where the intragroup medium is expected to be very low density so the influence of ram-pressure stripping should be small. Using archival COS observations, we have found tentative evidence for a detection of the CGM of Sextans B using a QSO sightline at low impact parameter (8 kpc or $\sim 0.09 r_{\text{virial}}$). We propose to confirm the CGM detection using high-S/N COS observations of a second QSO sightline at very low impact parameter from the Galaxy (4 kpc or $\sim 0.04 r_{\text{virial}}$). The relative strength of metal-line absorption in the two sightlines will allow us to determine the CGM mass, kinematics, and metal budget. This important experiment will allow us to place constraints on a gaseous halo in a quiescent low-density environment and explore gas flows in a previously uncharted region of the Local Group.

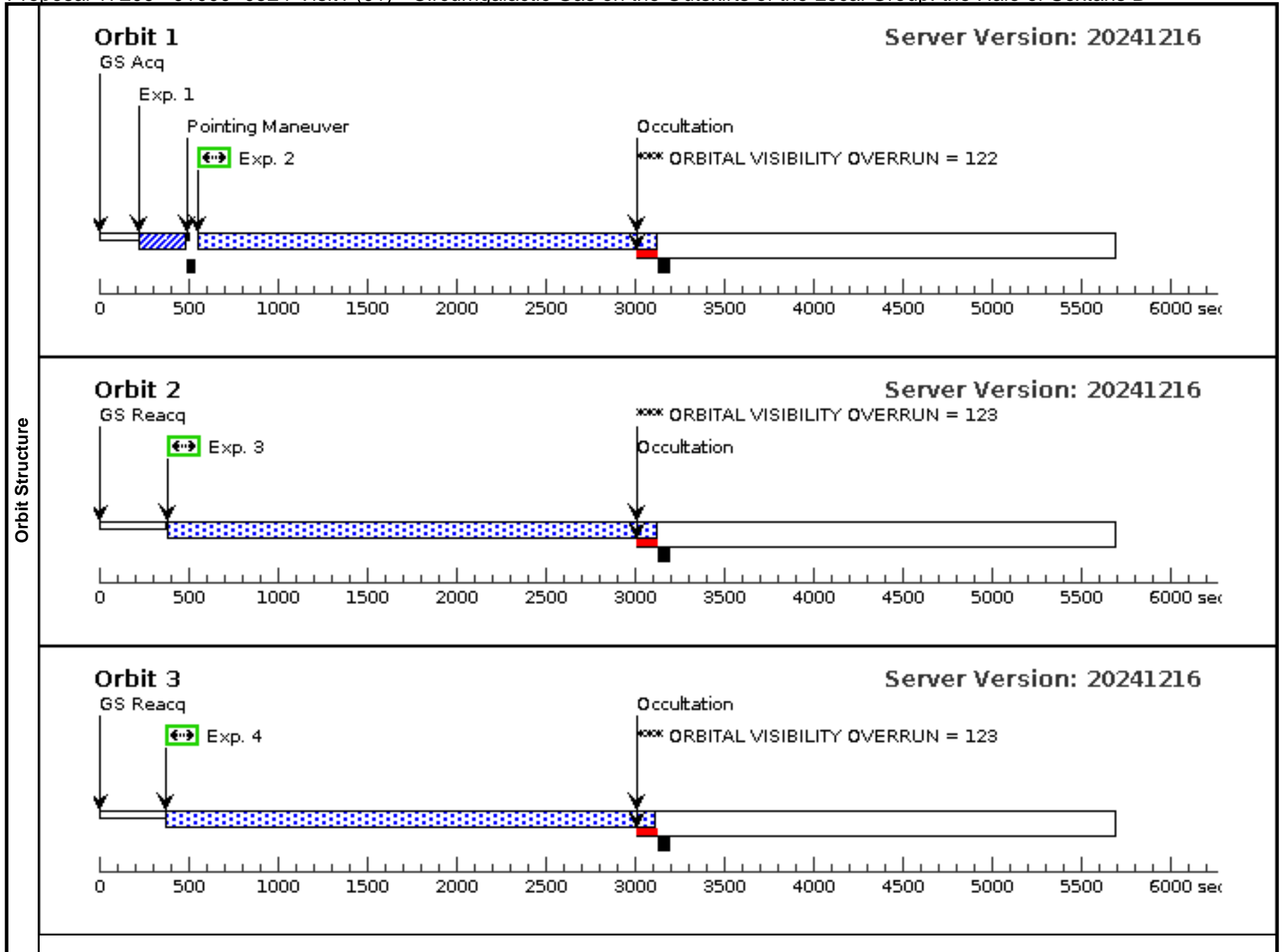
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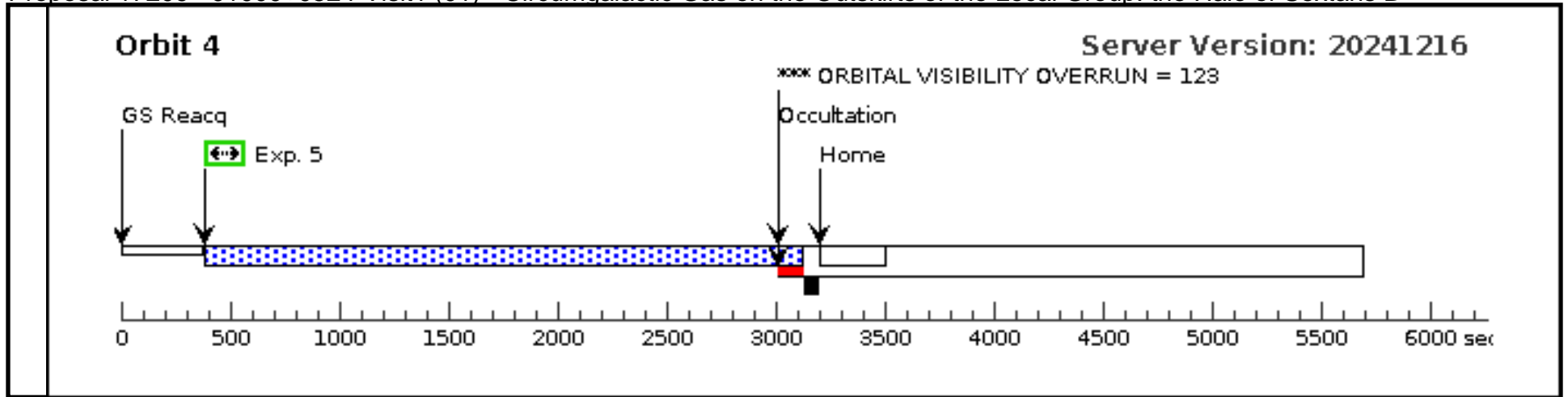
This COS program contains two 4-orbit visits on a single QSO (J1000+0524) behind the halo of Sextans B, an irregular galaxy on the edge of the Local Group. The two visits are identical, each with an ACQ/IMAGE with PSA/MIRRORA followed by four G130M/1291 science exposures (two with FP-POS=3 and two with FP-POS=4). Only 2 FP-POS are used because this is the default for G130M/1291 with both detector segments on.

Proposal 17209 - J1000+0524-Visit1 (01) - Circumgalactic Gas on the Outskirts of the Local Group: the Halo of Sextans B

Tue Jan 21 15:00:16 GMT 2025

Visit	Proposal 17209, J1000+0524-Visit1 (01), failed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																					
Diagnostics	(J1000+0524-Visit1 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J1000+0524-Visit1 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J1000+0524-Visit1 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J1000+0524-Visit1 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																					
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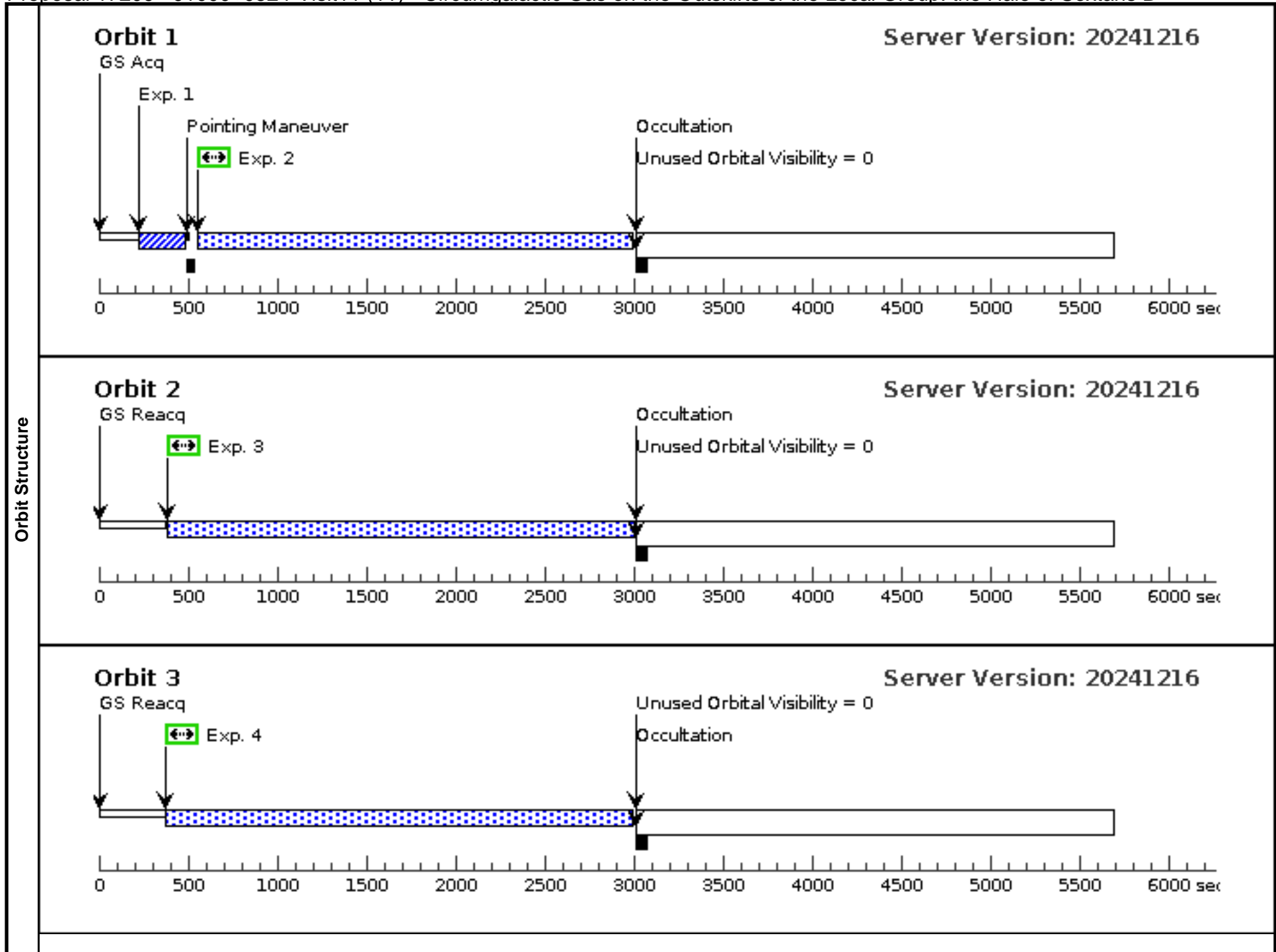


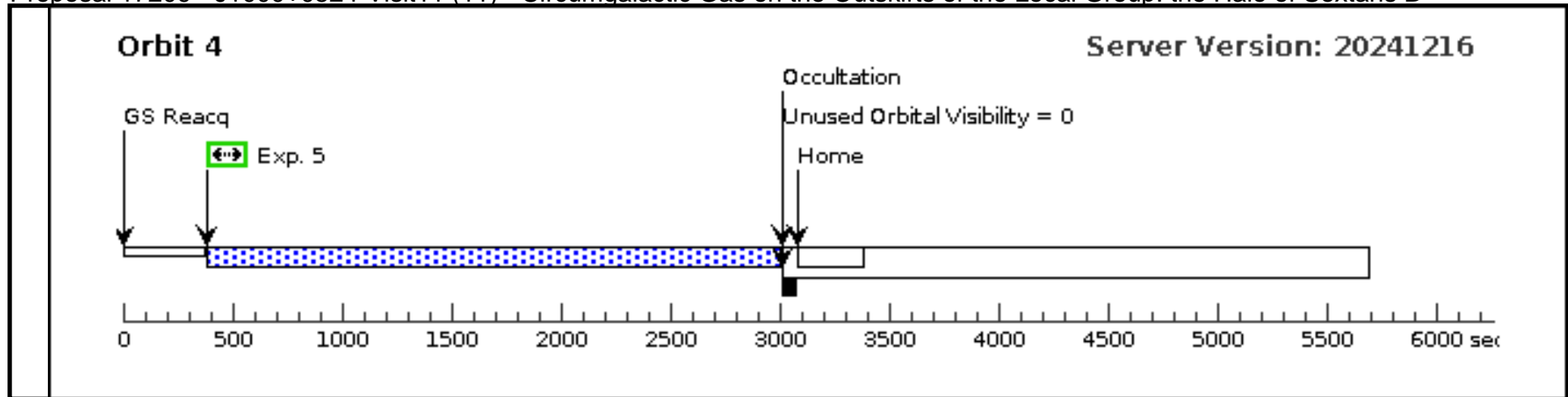


Proposal 17209 - J1000+0524-Visit11 (11) - Circumgalactic Gas on the Outskirts of the Local Group: the Halo of Sextans B

Tue Jan 21 15:00:16 GMT 2025

Visit	Proposal 17209, J1000+0524-Visit11 (11), completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: Repeat of Visit 01 under HOPR 92824</i>																																													
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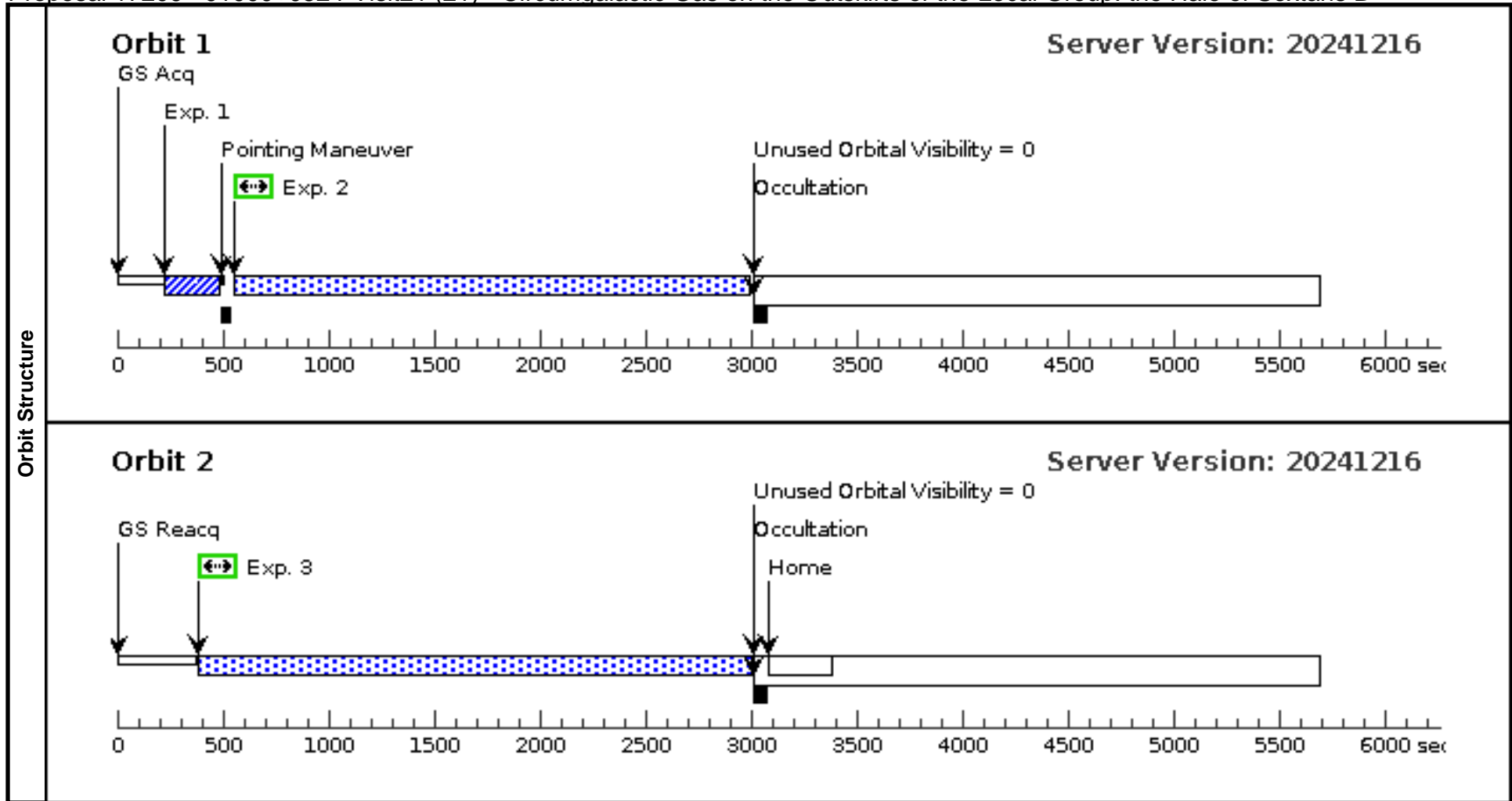




Proposal 17209 - J1000+0524-Visit21 (21) - Circumgalactic Gas on the Outskirts of the Local Group: the Halo of Sextans B

Tue Jan 21 15:00:16 GMT 2025

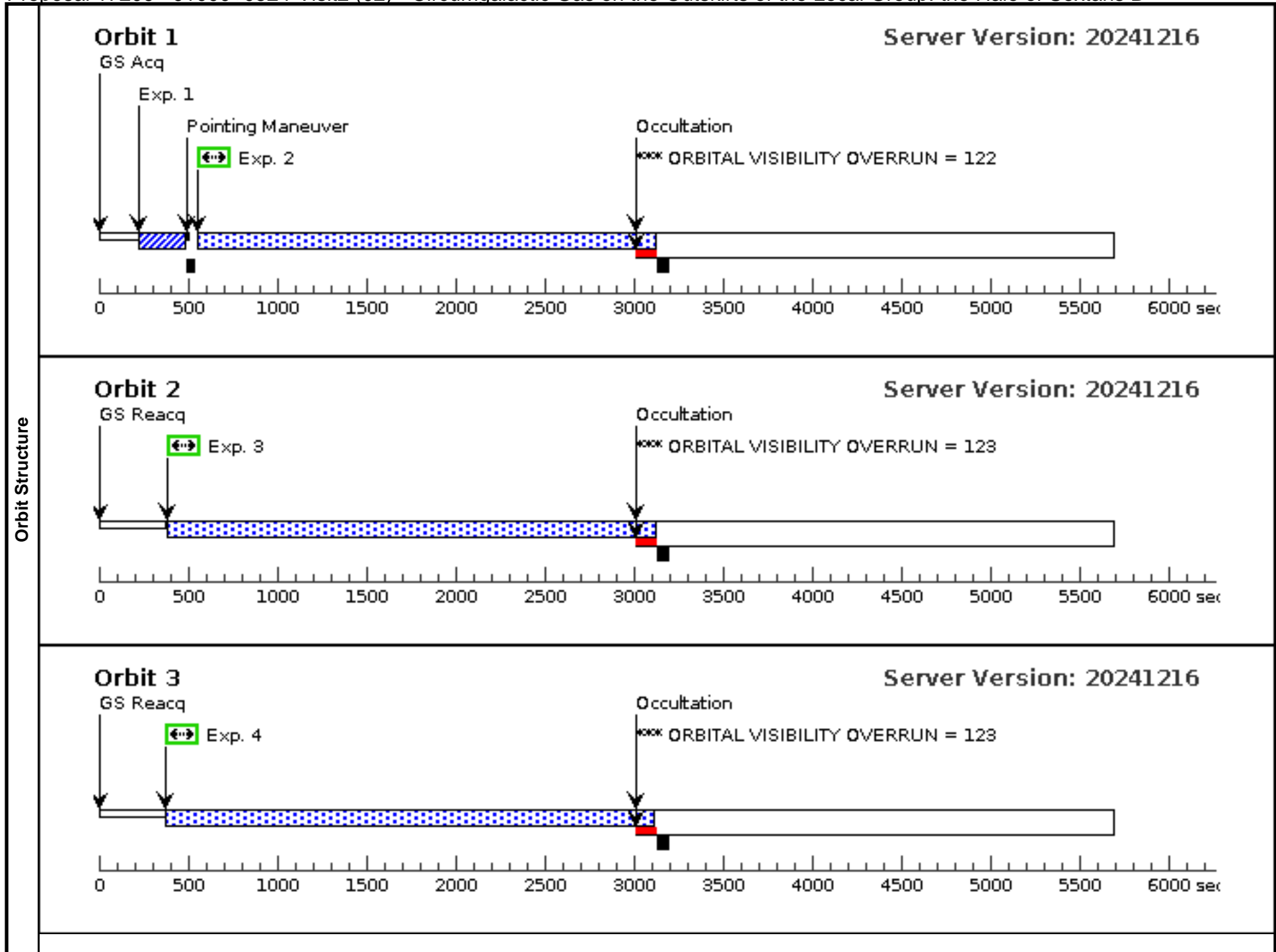
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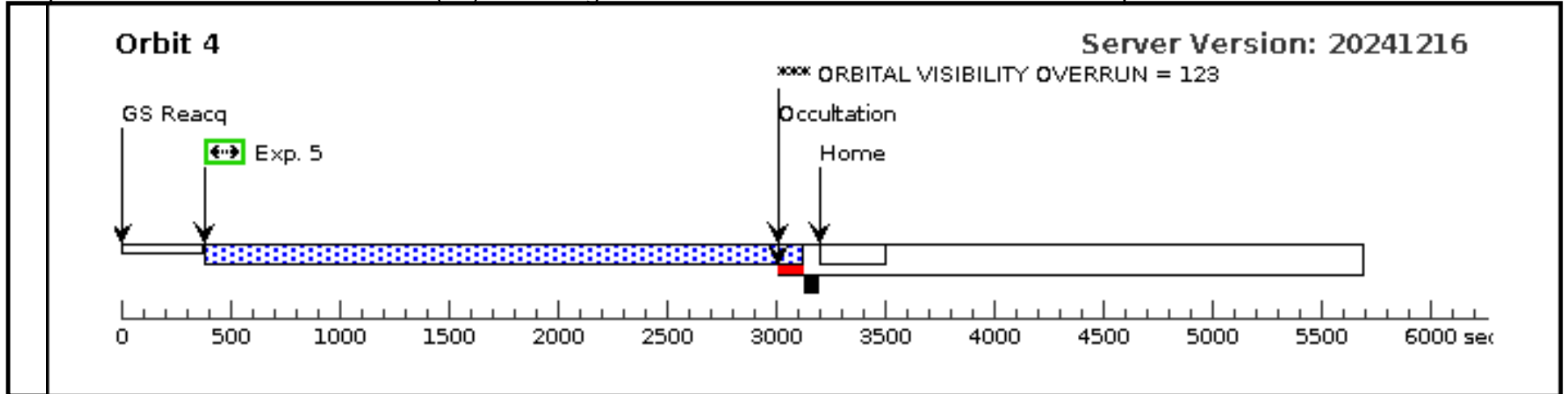
Proposal 17209 - J1000+0524-Visit2 (02) - Circumgalactic Gas on the Outskirts of the Local Group: the Halo of Sextans B

Tue Jan 21 15:00:16 GMT 2025

Visit	Proposal 17209, J1000+0524-Visit2 (02), failed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																					
Diagnostics	(J1000+0524-Visit2 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J1000+0524-Visit2 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J1000+0524-Visit2 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J1000+0524-Visit2 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																					
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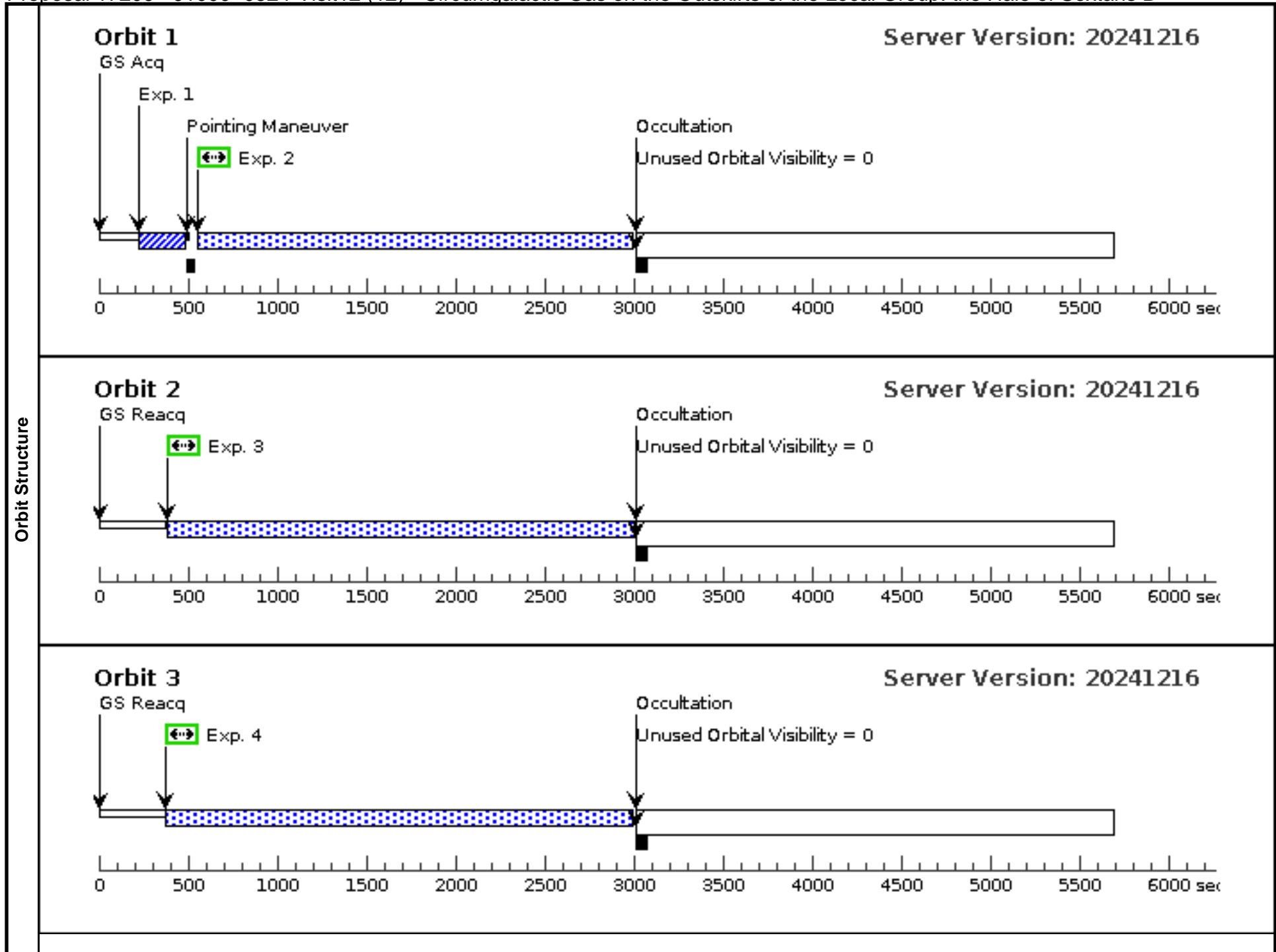
Orbit Structure



Proposal 17209 - J1000+0524-Visit12 (12) - Circumgalactic Gas on the Outskirts of the Local Group: the Halo of Sextans B

Tue Jan 21 15:00:16 GMT 2025

Visit	Proposal 17209, J1000+0524-Visit12 (12), completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: Repeat of Visit 02 under HOPR 92824</i>																											
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Orbit Structure

