



# 17774 - Multiphase gas in eROSITA-detected galaxy groups and clusters

Cycle: 32, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

## INVESTIGATORS

<i>Name</i>	<i>Institution</i>
<b>Prof. Joseph Neil Burchett (PI) (Contact)</b>	<b>New Mexico State University</b>
Dr. Benjamin Darwin Oppenheimer (CoI)	University of Colorado at Boulder
Prof. Daisuke Nagai (CoI)	Yale University
Dr. Andrea Merloni (CoI) (ESA Member)	Max Planck Institute for Extraterrestrial Physics
Dr. Esra Bulbul (CoI) (ESA Member)	Max Planck Institute for Extraterrestrial Physics
Dr. Mara Salvato (CoI) (ESA Member)	Max Planck Institute for Extraterrestrial Physics
Dr. Johan Comparat (CoI) (ESA Member)	Max Planck Institute for Extraterrestrial Physics
Prof. Scott F. Anderson (CoI)	University of Washington
Dr. Teng Liu (CoI) (ESA Member)	Max Planck Institute for Extraterrestrial Physics
Priscilla Holguin Luna (CoI)	New Mexico State University
Prof. John Thomas Stocke (CoI)	University of Colorado at Boulder
Dr. Jeremy S Sanders (CoI) (ESA Member)	Max Planck Institute for Extraterrestrial Physics
Dr. Nicolas Tejos (CoI)	Pontificia Universidad Catolica de Valparaiso
Mr. Erick Alexander Aguirre (CoI)	New Mexico State University
Dr. Christopher Nicholas Andrew Willmer (CoI)	University of Arizona
Dr. Celine Peroux (CoI) (ESA Member)	European Southern Observatory - Germany
Prof. Todd M. Tripp (CoI)	University of Massachusetts - Amherst
Dr. Maxim Markevitch (CoI)	NASA Goddard Space Flight Center
Prof. Q. Daniel Wang (CoI)	University of Massachusetts - Amherst
Mr. Timothy McQuaid (CoI)	New Mexico State University

**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) 2MASSJ10443748-0705162	COS/FUV COS/NUV	3	11-Feb-2026 13:00:26.0	yes
02	(2) 2MASXJ08370334+2508153	COS/FUV COS/NUV	3	11-Feb-2026 13:00:27.0	yes
03	(3) B21229+29	COS/FUV COS/NUV	3	11-Feb-2026 13:00:28.0	yes
04	(4) EQSB1255-0143	COS/FUV COS/NUV	2	11-Feb-2026 13:00:28.0	yes
05	(5) LEONX-1	COS/FUV COS/NUV	2	11-Feb-2026 13:00:29.0	yes
25	(5) LEONX-1	COS/FUV COS/NUV	1	11-Feb-2026 13:00:29.0	yes
06	(6) MS10302-2757	COS/FUV COS/NUV	1	11-Feb-2026 13:00:30.0	yes
07	(7) PGC3095905	COS/FUV COS/NUV	2	11-Feb-2026 13:00:30.0	yes
08	(8) PGC955931	COS/FUV COS/NUV	3	11-Feb-2026 13:00:31.0	yes
09	(9) SDSSJ101314.86-005233.6	COS/FUV COS/NUV	3	11-Feb-2026 13:00:32.0	yes
10	(10) SDSSJ125849.84-014303.3	COS/FUV COS/NUV	3	11-Feb-2026 13:00:32.0	yes
11	(11) SDSSJ142500.00+024039.2	COS/FUV COS/NUV	2	11-Feb-2026 13:00:33.0	yes
12	(11) SDSSJ142500.00+024039.2	COS/FUV COS/NUV	2	11-Feb-2026 13:00:33.0	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>
13	(12) TGS467Z204	COS/FUV COS/NUV	1	11-Feb-2026 13:00:34.0	yes
14	(13) UM472	COS/FUV COS/NUV	2	11-Feb-2026 13:00:34.0	yes
15	(14) UVQSJ054917.24-254809.7	COS/FUV COS/NUV	2	11-Feb-2026 13:00:35.0	yes
16	(15) UVQSJ133435.46-313556.7	COS/FUV COS/NUV	2	11-Feb-2026 13:00:35.0	yes

37 Total Orbits Used

## **ABSTRACT**

Galaxy groups and clusters can be brutal environments for galaxies' star formation, as the hot ( $>10^6$  K) gas permeating these massive halos can readily remove galaxies' cool ( $<10^4$  K) gas reservoirs and prevent fresh cool gas from fueling. However, studying these inherently multiphase environments from a multiphase perspective, i.e., systematically characterizing the diffuse cool and hot gas in groups and clusters, has remained elusive due to the relatively small numbers of X-ray detected halos to target in UV absorption line experiments. The eROSITA All Sky Survey (eRASS) is dramatically changing the landscape with an order-of-magnitude increase in the number of X-ray detected groups and clusters after only the first year of observations. We propose to obtain HST/COS spectra of quasars probing a sample of eRASS-detected galaxy groups and clusters spanning two orders of magnitude in X-ray luminosity, representing the first study of its kind and tripling the previously existing samples. First, we will track the cool gas, traced by H I Ly-alpha and Si III, contents in and around these halos as a function of the X-ray derived properties. Using ongoing follow-up spectroscopic surveys for these groups/clusters, we will characterize the CGM contents of galaxies near the sightlines to investigate the impact of increasing hot gas density and temperature (via the X-ray measurements) on these galaxies. Hydrodynamical simulations have been highly inconsistent in reproducing the few existing observations, and the dataset from our program will stand as a critical benchmark for state-of-the-art models that attempt to capture the salient multiphase gas physics in massive halos.

## **OBSERVING DESCRIPTION**

To achieve our science goals, we will employ the G130M grating providing  $\sim 20$  km s<sup>-1</sup> spectral resolution. We will primarily target H I Ly $\alpha$  at the cluster's redshifts. The G130M central wavelength configurations chosen for each target ensures coverage of not only Ly $\alpha$ , but also some transitions of silicon. Mission critical for our science is coverage of Ly $\alpha$  with sufficient S/N; we have chosen grating configurations to maximize throughput at

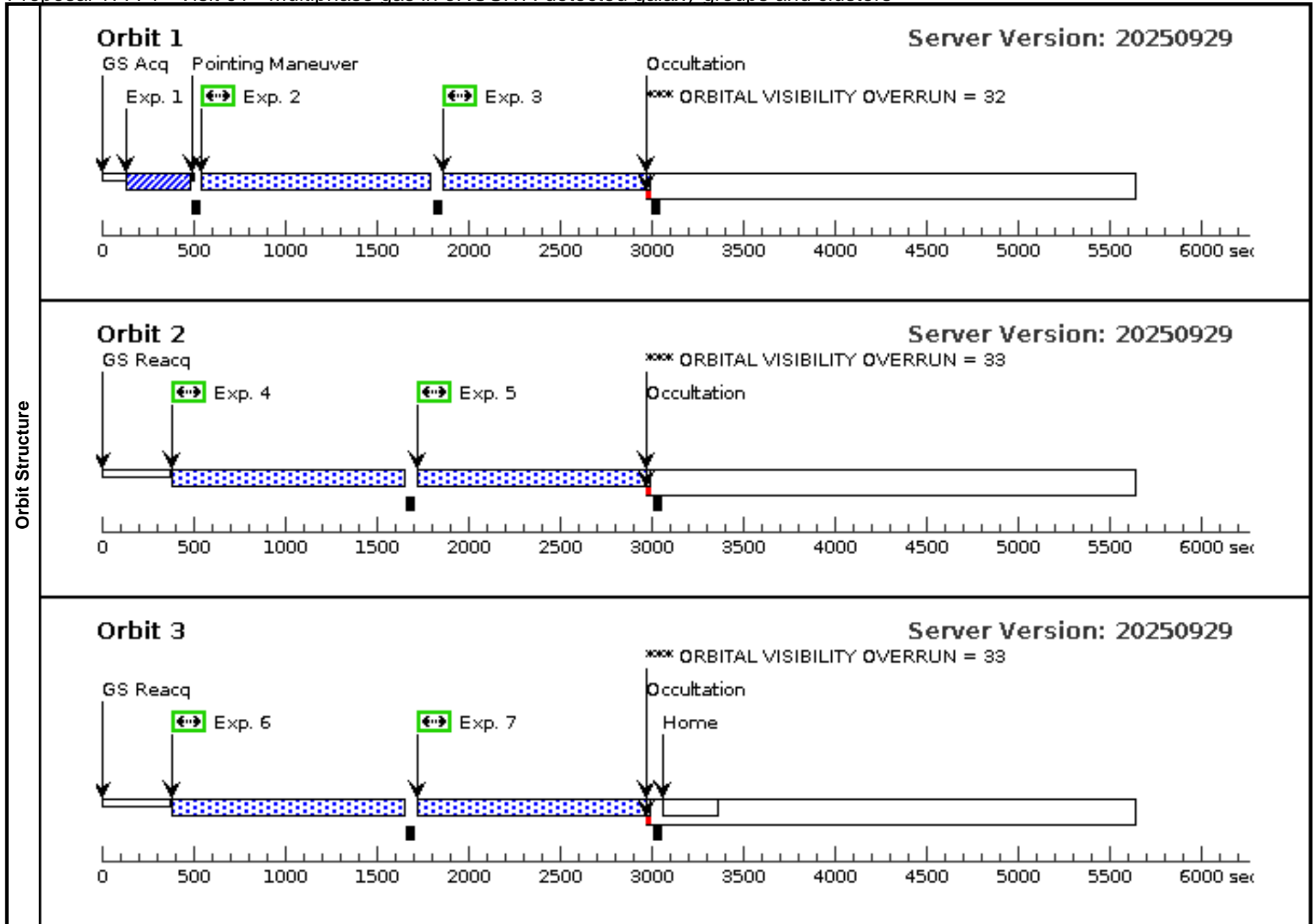
Proposal 17774 (STScI Edit Number: 2, Created: Wednesday, February 11, 2026, 1:00:35PM Eastern Standard Time) - Overview

the H I Ly $\alpha$  line. We will also cover Si III 1206 Ang, and additional metal lines (Si II 1190, 1193 Ang, and Si II 1260 Ang for a majority of our targets) will supplement our key scientific objectives but are not the focus of this proposal. Our orbit requests are derived from an S/N = 10 requirement at Ly $\alpha$ , which corresponds to a limiting equivalent width  $\sim$ 40 mAng assuming a line width of 6 pixels, with exposure time estimates determined by the COS ETC. We do not require coverage of Ly $\beta$  because we expect most of the H I Ly $\alpha$  absorption to be optically thin. Even in the conditions where this is not the case, we can place reliable lower limits on N (H I). We will employ a routine observing sequence for COS. We will acquire the targets in the near-UV with an ACQ/IMAGE exposure then switch to TIME-TAG for our science exposures. To comply with guidelines as outlined in the COS Handbook and minimize flat-field artifacts, we will use multiple FP-POS settings during each visit.

Proposal 17774 - Visit 01 - Multiphase gas in eROSITA-detected galaxy groups and clusters

Wed Feb 11 18:00:36 GMT 2026

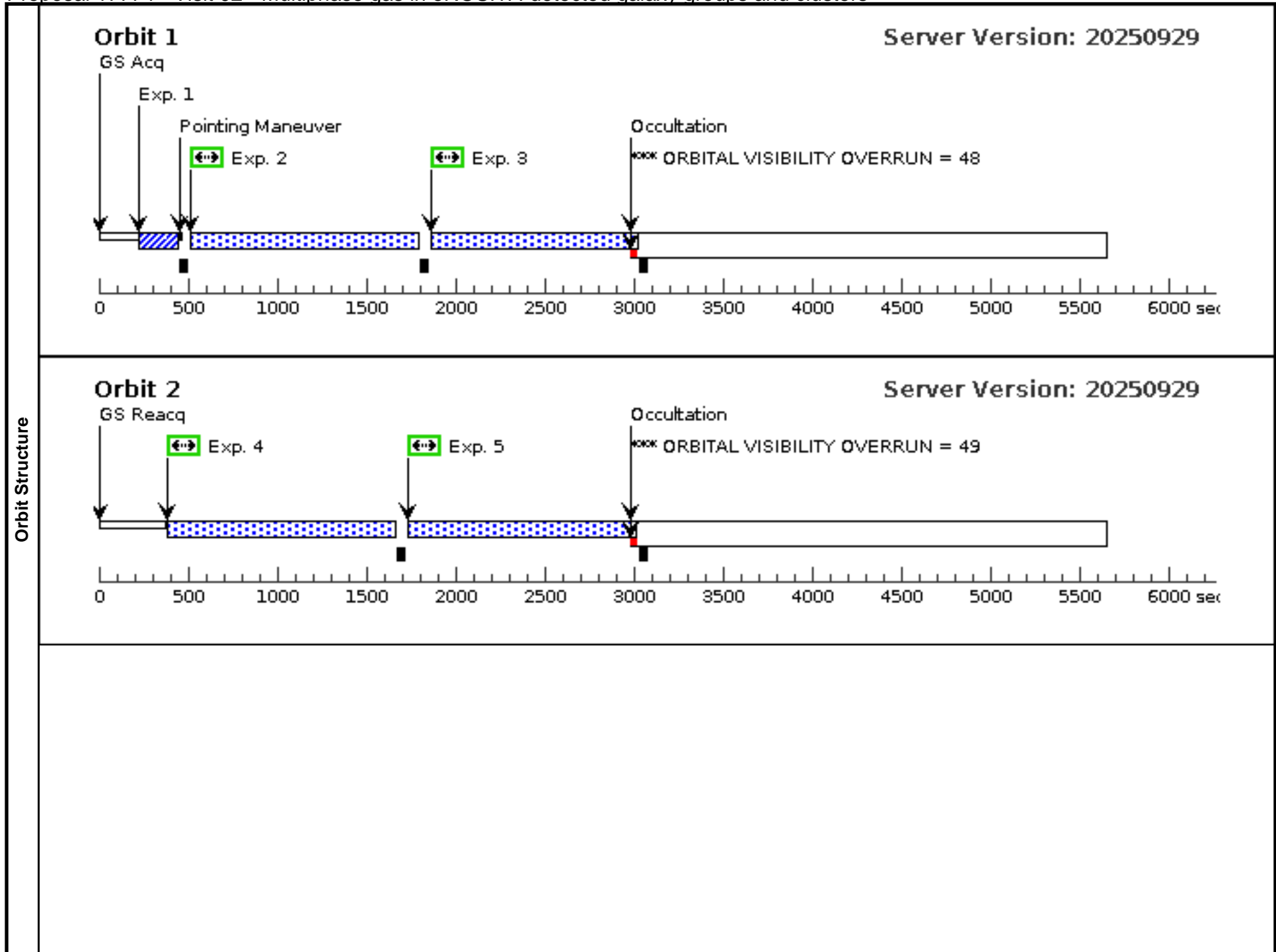
<b>Visit</b>	<b>Proposal 17774, Visit 01, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																																				
	(Visit 01) Warning (Orbit Planner): COS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS (Visit 01) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 01) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 01) 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>(1)</td> <td>2MASSJ10443748-0705162</td> <td>RA: 10 44 37.4735 (161.1561396d) Dec: -07 05 16.19 (-7.08783d) Equinox: J2000</td> <td></td> <td>V=17.428 FUV=17.90416145</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	2MASSJ10443748-0705162	RA: 10 44 37.4735 (161.1561396d) Dec: -07 05 16.19 (-7.08783d) Equinox: J2000		V=17.428 FUV=17.90416145	Reference Frame: ICRS	Comments: Category=GALAXY Description=[QSO] Extended=NO																																																																							
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<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>(COS.ta.193 4301)</td> <td>(1) 2MASSJ1044374 8-0705162</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>19.2 Secs (19.2 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(COS.sp.193 1424)</td> <td>(1) 2MASSJ1044374 8-0705162</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=40 87</td> <td></td> <td></td> <td>1078 Secs (1078 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>(COS.sp.193 1424)</td> <td>(1) 2MASSJ1044374 8-0705162</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=40 87</td> <td></td> <td></td> <td>1078 Secs (1078 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>(COS.sp.193 1424)</td> <td>(1) 2MASSJ1044374 8-0705162</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=40 87</td> <td></td> <td></td> <td>1222 Secs (1222 Secs) [==&gt;]</td> <td>[2]</td> </tr> <tr> <td>5</td> <td>(COS.sp.193 1424)</td> <td>(1) 2MASSJ1044374 8-0705162</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=40 87</td> <td></td> <td></td> <td>1220 Secs (1220 Secs) [==&gt;]</td> <td>[2]</td> </tr> <tr> <td>6</td> <td>(COS.sp.193 1424)</td> <td>(1) 2MASSJ1044374 8-0705162</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=40 87</td> <td></td> <td></td> <td>1223 Secs (1223 Secs) [==&gt;]</td> <td>[3]</td> </tr> <tr> <td>7</td> <td>(COS.sp.193 1424)</td> <td>(1) 2MASSJ1044374 8-0705162</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=40 87</td> <td></td> <td></td> <td>1222 Secs (1222 Secs) [==&gt;]</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	(COS.ta.193 4301)	(1) 2MASSJ1044374 8-0705162	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				19.2 Secs (19.2 Secs) [==>]	[1]	2	(COS.sp.193 1424)	(1) 2MASSJ1044374 8-0705162	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=40 87			1078 Secs (1078 Secs) [==>]	[1]	3	(COS.sp.193 1424)	(1) 2MASSJ1044374 8-0705162	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=40 87			1078 Secs (1078 Secs) [==>]	[1]	4	(COS.sp.193 1424)	(1) 2MASSJ1044374 8-0705162	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=40 87			1222 Secs (1222 Secs) [==>]	[2]	5	(COS.sp.193 1424)	(1) 2MASSJ1044374 8-0705162	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=40 87			1220 Secs (1220 Secs) [==>]	[2]	6	(COS.sp.193 1424)	(1) 2MASSJ1044374 8-0705162	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=40 87			1223 Secs (1223 Secs) [==>]	[3]	7	(COS.sp.193 1424)	(1) 2MASSJ1044374 8-0705162	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=40 87			1222 Secs (1222 Secs) [==>]	[3]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																																												
1	(COS.ta.193 4301)	(1) 2MASSJ1044374 8-0705162	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				19.2 Secs (19.2 Secs) [==>]	[1]																																																																												
2	(COS.sp.193 1424)	(1) 2MASSJ1044374 8-0705162	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=40 87			1078 Secs (1078 Secs) [==>]	[1]																																																																												
3	(COS.sp.193 1424)	(1) 2MASSJ1044374 8-0705162	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=40 87			1078 Secs (1078 Secs) [==>]	[1]																																																																												
4	(COS.sp.193 1424)	(1) 2MASSJ1044374 8-0705162	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=40 87			1222 Secs (1222 Secs) [==>]	[2]																																																																												
5	(COS.sp.193 1424)	(1) 2MASSJ1044374 8-0705162	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=40 87			1220 Secs (1220 Secs) [==>]	[2]																																																																												
6	(COS.sp.193 1424)	(1) 2MASSJ1044374 8-0705162	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=40 87			1223 Secs (1223 Secs) [==>]	[3]																																																																												
7	(COS.sp.193 1424)	(1) 2MASSJ1044374 8-0705162	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=40 87			1222 Secs (1222 Secs) [==>]	[3]																																																																												

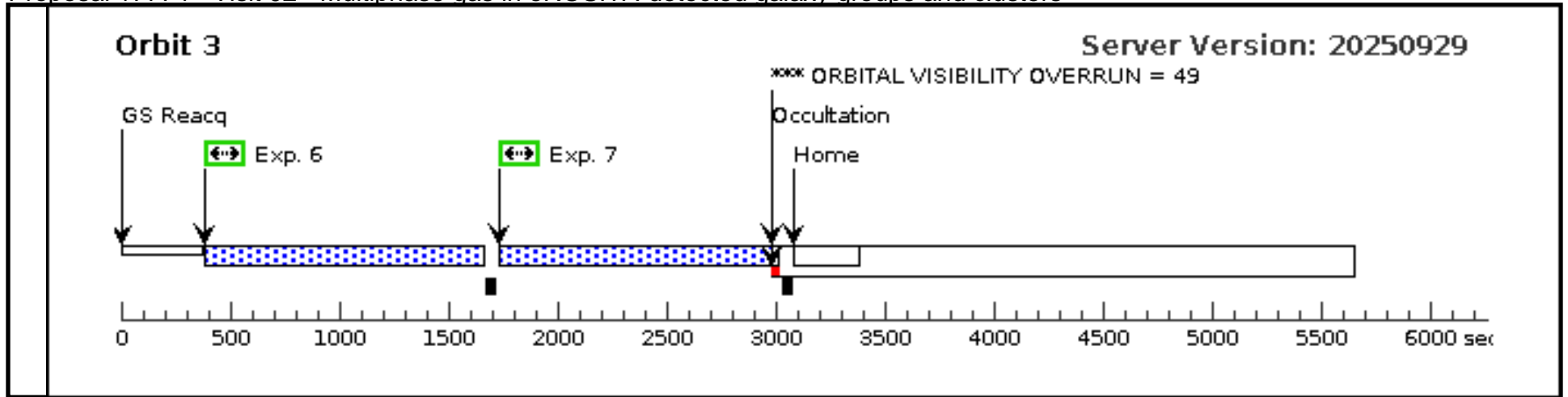


Proposal 17774 - Visit 02 - Multiphase gas in eROSITA-detected galaxy groups and clusters

Wed Feb 11 18:00:36 GMT 2026

Visit	<b>Proposal 17774, Visit 02, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	Diagnostics	(Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(2)	2MASXJ08370334+2508153	RA: 08 37 3.2990 (129.2637458d) Dec: +25 08 15.23 (25.13756d) Equinox: J2000		V=18.353 FUV=18.27466202	Reference Frame: ICRS			
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	2	(COS.sp.193 1434)	(2) 2MASXJ08370334+2508153	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=43 43			1107 Secs (1107 Secs) [==>]	[1]
	3	(COS.sp.193 1434)	(2) 2MASXJ08370334+2508153	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=43 43			1107 Secs (1107 Secs) [==>]	[1]
	4	(COS.sp.193 1434)	(2) 2MASXJ08370334+2508153	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=43 43			1232 Secs (1232 Secs) [==>]	[2]
	5	(COS.sp.193 1434)	(2) 2MASXJ08370334+2508153	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=43 43			1232 Secs (1232 Secs) [==>]	[2]
	6	(COS.sp.193 1434)	(2) 2MASXJ08370334+2508153	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=43 43			1234 Secs (1234 Secs) [==>]	[3]
	7	(COS.sp.193 1434)	(2) 2MASXJ08370334+2508153	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=43 43			1233 Secs (1233 Secs) [==>]	[3]

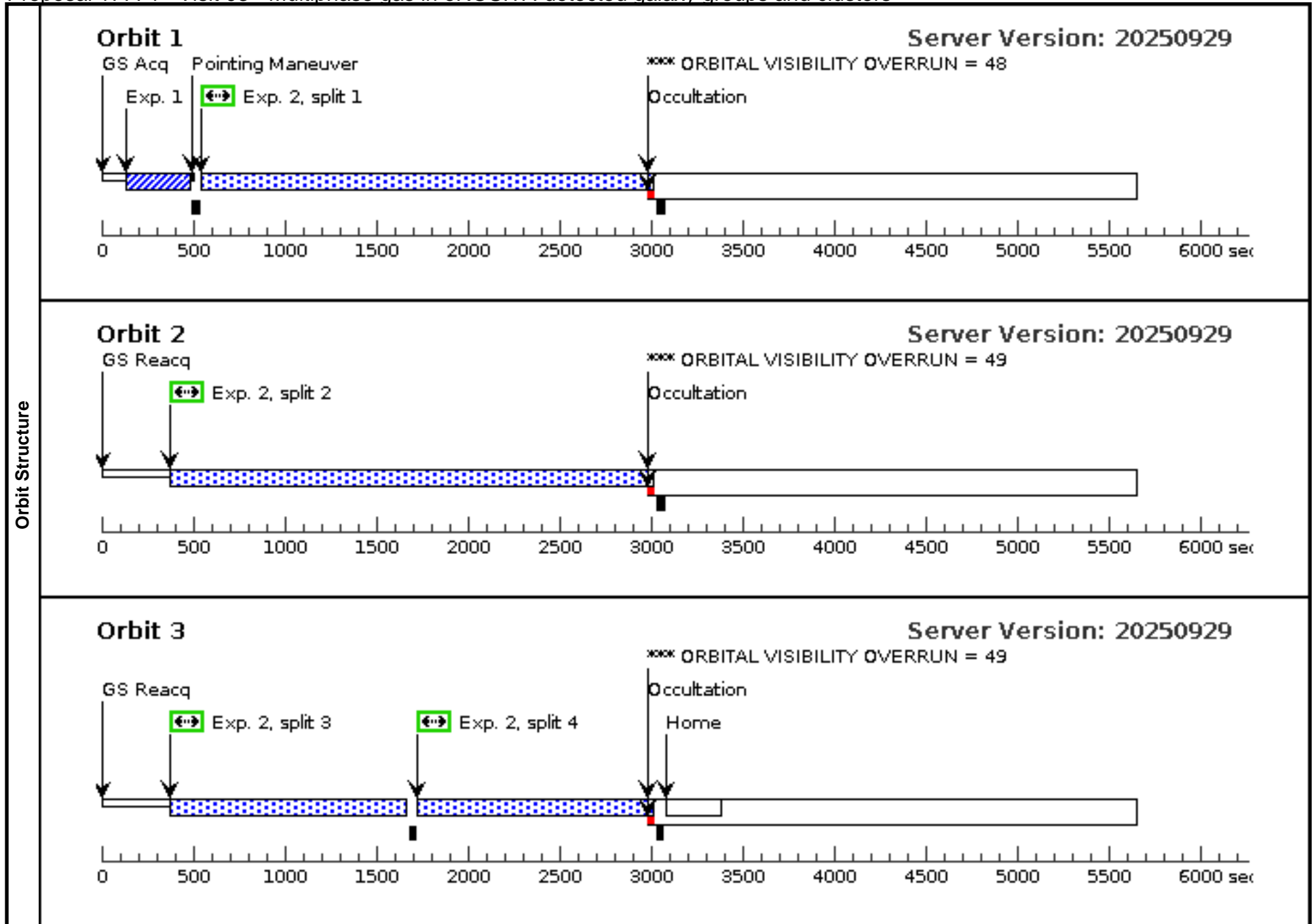




Proposal 17774 - Visit 03 - Multiphase gas in eROSITA-detected galaxy groups and clusters

Wed Feb 11 18:00:36 GMT 2026

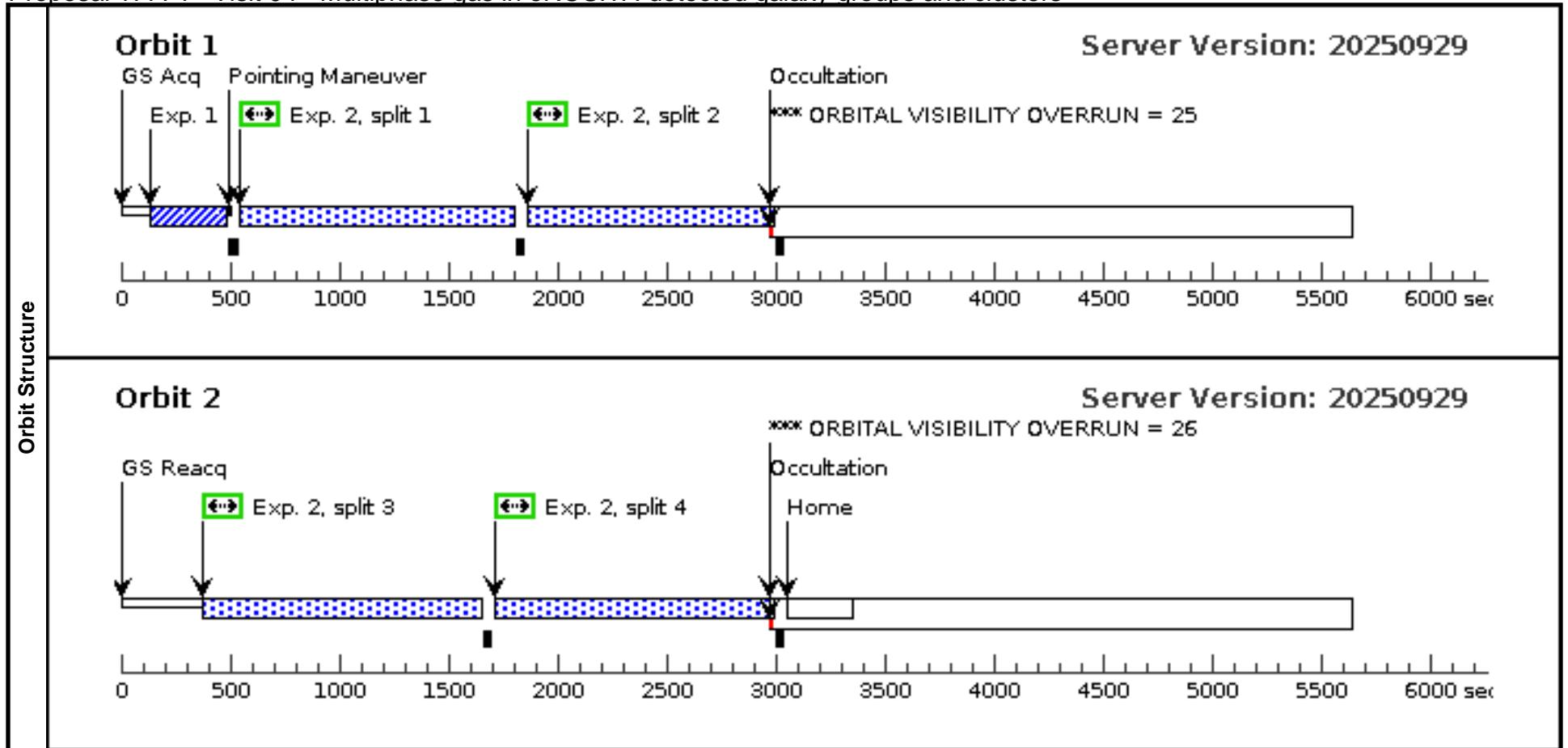
<b>Visit</b>	<b>Proposal 17774, Visit 03, scheduled</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
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<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(3)	B21229+29	RA: 12 31 43.5685 (187.9315354d) Dec: +28 47 49.70 (28.79714d) Equinox: J2000		V=17.415 FUV=18.17481613	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QSO, QUASAR] 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	(COS.ta.193 4305)	(3) B21229+29	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				18.7 Secs (18.7 Secs)	
									[==>]	[1]
	2	(COS.sp.193 1438)	(3) B21229+29	COS/FUV, TIME-TAG, PSA	G130M 1222 A	SEGMENT=BOTH; FP-POS=ALL; BUFFER-TIME=81 91			1088 Secs (7348 Secs)	
									[==>2287.0 Secs (Split 1)]	[1]
								[==>2588.0 Secs (Split 2)]	[2]	
								[==>1236.0 Secs (Split 3)]		
								[==>1237.0 Secs (Split 4)]	[3]	



Proposal 17774 - Visit 04 - Multiphase gas in eROSITA-detected galaxy groups and clusters

Wed Feb 11 18:00:36 GMT 2026

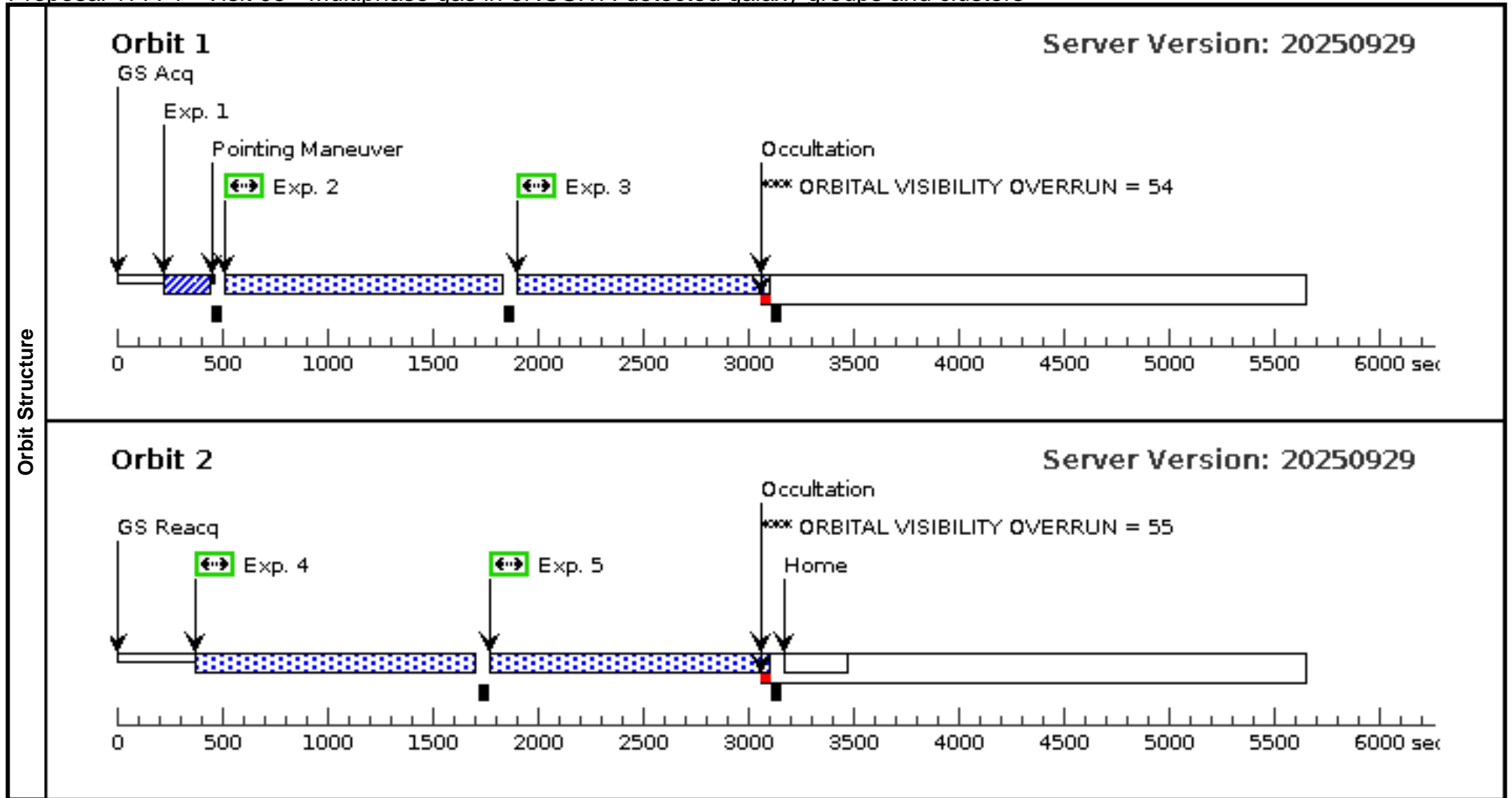
<b>Visit</b>	<b>Proposal 17774, Visit 04, scheduled</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)											
	(Visit 04) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 04) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
<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)	EQSB1255-0143	RA: 12 58 15.2192 (194.5634133d) Dec: -01 59 18.69 (-1.98852d) Equinox: J2000				V=17.561 FUV=17.83533859		Reference Frame: ICRS			
Comments: Category=GALAXY Description=[QSO, QUASAR] 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	(COS.ta.193 4307)	(4) EQSB1255-0143	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				18.1 Secs (18.1 Secs)			
									[==>]		[1]	
	2	(COS.sp.193 1443)	(4) EQSB1255-0143	COS/FUV, TIME-TAG, PSA	G130M 1222 A	SEGMENT=BOTH; FP-POS=ALL; BUFFER-TIME=74 44				1470 Secs (4591 Secs)		
										[==>1072.0 Secs (Split 1)]		[1]
									[==>1073.0 Secs (Split 2)]			
									[==>1223.0 Secs (Split 3)]			
									[==>1223.0 Secs (Split 4)]		[2]	



Proposal 17774 - Visit 05 - Multiphase gas in eROSITA-detected galaxy groups and clusters

Wed Feb 11 18:00:36 GMT 2026

<b>Visit</b>	<b>Proposal 17774, Visit 05, failed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 05) Warning (Orbit Planner): COS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS (Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<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)	LEONX-1	RA: 05 19 36.3293 (79.9013721d) Dec: -60 48 3.96 (-60.80110d) Equinox: J2000		V=17.45 FUV=18.03486061	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QSO, QUASAR] 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	(COS.ta.193 4310)	(5) LEONX-1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				1.4 Secs (1.4 Secs) [==>]	[1]
	2	(COS.sp.193 1447)	(5) LEONX-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=41 84			1150 Secs (1150 Secs) [==>]	[1]
	3	(COS.sp.193 1447)	(5) LEONX-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=41 84			1151 Secs (1151 Secs) [==>]	[1]
	4	(COS.sp.193 1447)	(5) LEONX-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=41 84			1277 Secs (1277 Secs) [==>]	[2]
	5	(COS.sp.193 1447)	(5) LEONX-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=41 84			1277 Secs (1277 Secs) [==>]	[2]



Proposal 17774 - Visit 25 - Multiphase gas in eROSITA-detected galaxy groups and clusters

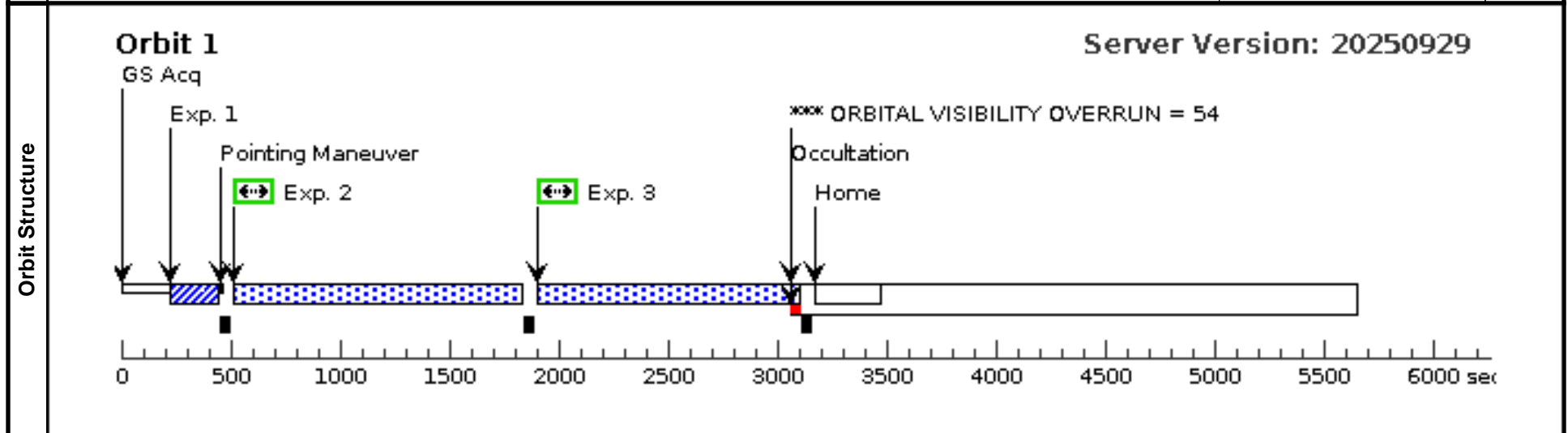
Wed Feb 11 18:00:36 GMT 2026

<b>Visit</b>	<b>Proposal 17774, Visit 25</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)
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<b>Diagnostics</b>	(Visit 25) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.
	(Visit 25) Warning (Orbit Planner): COS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
	(Visit 25) 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>LEONX-1</td> <td>RA: 05 19 36.3293 (79.9013721d) Dec: -60 48 3.96 (-60.80110d) Equinox: J2000</td> <td></td> <td>V=17.45 FUV=18.03486061</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(5)	LEONX-1	RA: 05 19 36.3293 (79.9013721d) Dec: -60 48 3.96 (-60.80110d) Equinox: J2000		V=17.45 FUV=18.03486061	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(5)	LEONX-1	RA: 05 19 36.3293 (79.9013721d) Dec: -60 48 3.96 (-60.80110d) Equinox: J2000		V=17.45 FUV=18.03486061	Reference Frame: ICRS								
Comments: Category=GALAXY Description=[QSO, QUASAR] 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	(COS.ta.193 4310)	(5) LEONX-1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA					1.4 Secs (1.4 Secs) [==>]	[1]
	2	(COS.sp.193 1447)	(5) LEONX-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=41 84				1150 Secs (1150 Secs) [==>]	[1]
	3	(COS.sp.193 1447)	(5) LEONX-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=41 84				1151 Secs (1151 Secs) [==>]	[1]

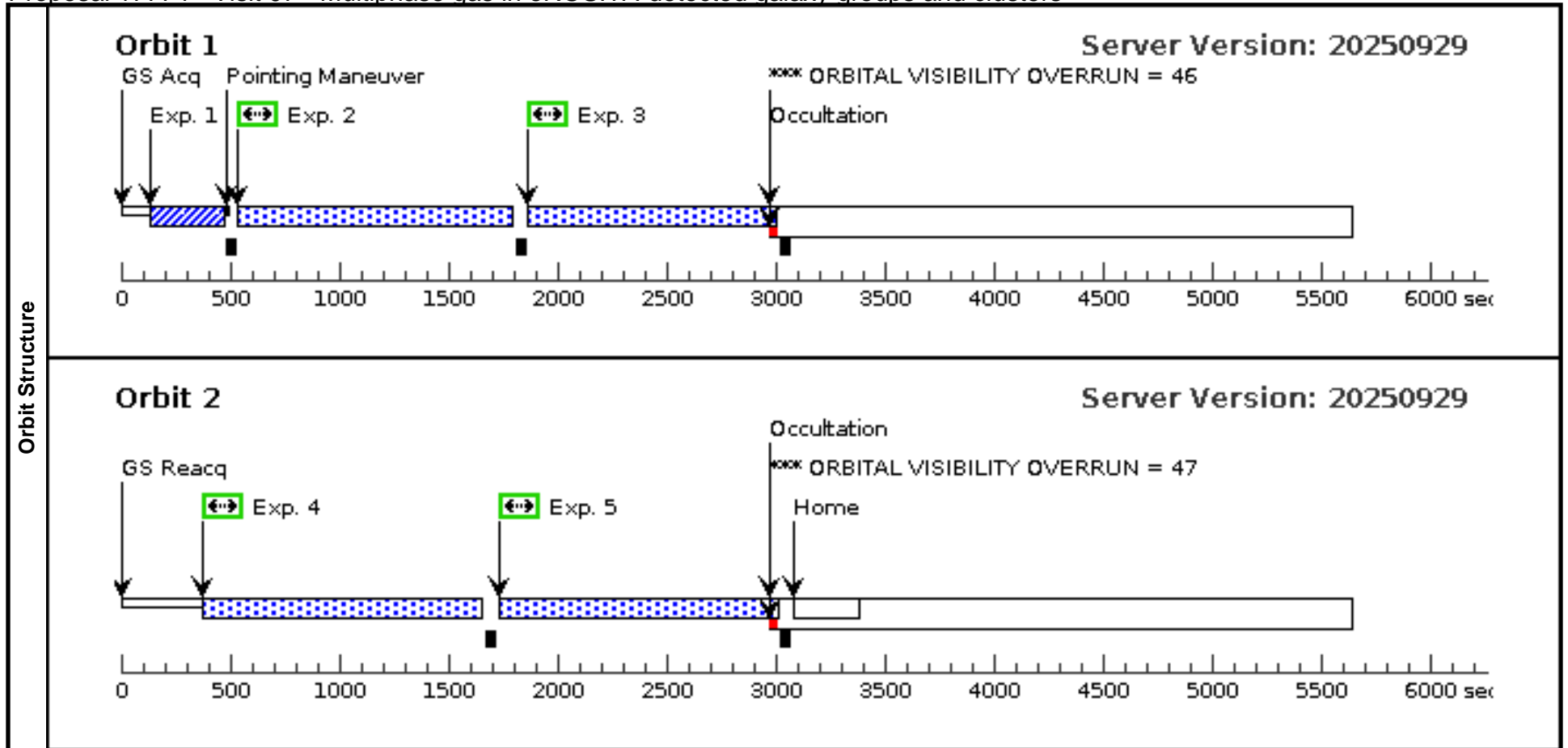




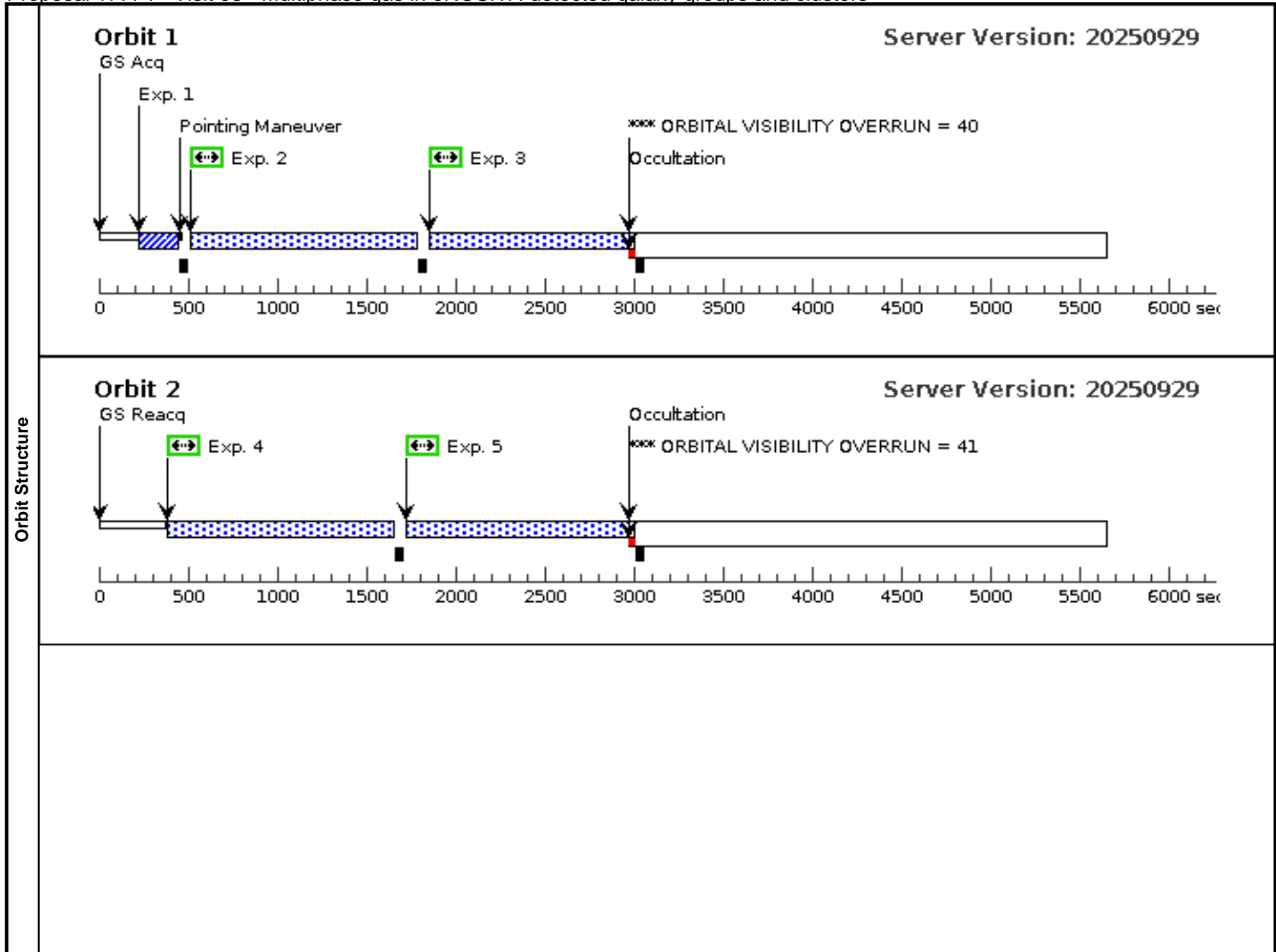
Proposal 17774 - Visit 07 - Multiphase gas in eROSITA-detected galaxy groups and clusters

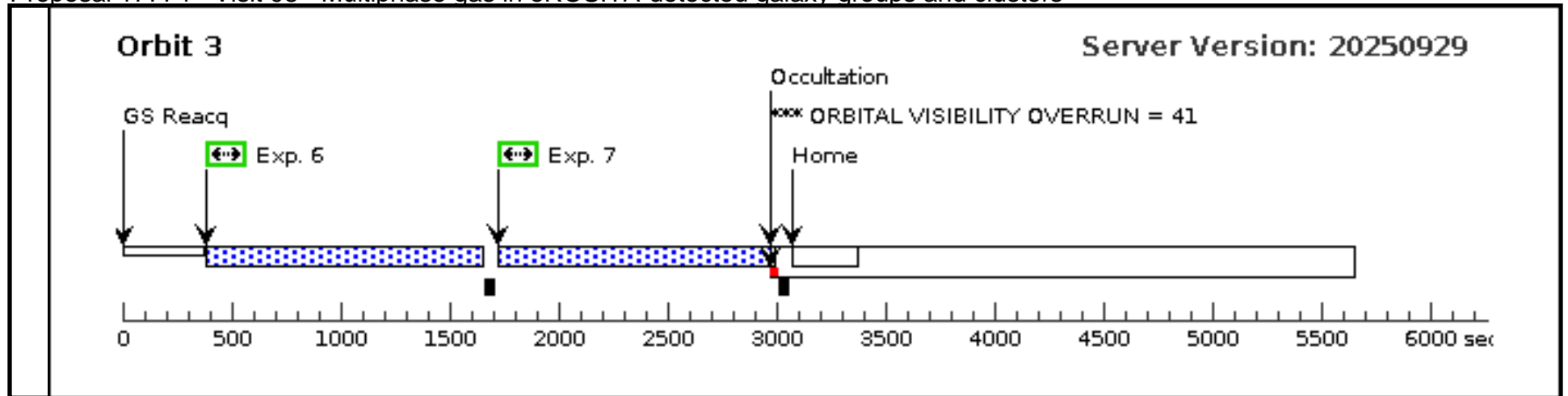
Wed Feb 11 18:00:36 GMT 2026

<b>Visit</b>	<b>Proposal 17774, Visit 07, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 07) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 07) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(7)	PGC3095905	RA: 09 54 29.5818 (148.6232575d) Dec: -16 06 51.21 (-16.11422d) Equinox: J2000		V=15.436 FUV=17.85335732	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QSO, QUASAR] 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	(COS.ta.193 4318)	(7) PGC3095905	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				13.8 Secs (13.8 Secs) [==>]	[1]
	2	(COS.sp.193 2111)	(7) PGC3095905	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=40 51; SEGMENT=BOTH; FP-POS=3			1091 Secs (1091 Secs) [==>]	[1]
	3	(COS.sp.193 2111)	(7) PGC3095905	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=40 51; SEGMENT=BOTH; FP-POS=3			1090 Secs (1090 Secs) [==>]	[1]
	4	(COS.sp.193 2111)	(7) PGC3095905	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=40 51; SEGMENT=BOTH; FP-POS=4			1228 Secs (1229 Secs) [==>1229.0 Secs ]	[2]
	5	(COS.sp.193 2111)	(7) PGC3095905	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=40 51; SEGMENT=BOTH; FP-POS=4			1227 Secs (1229 Secs) [==>1229.0 Secs ]	[2]





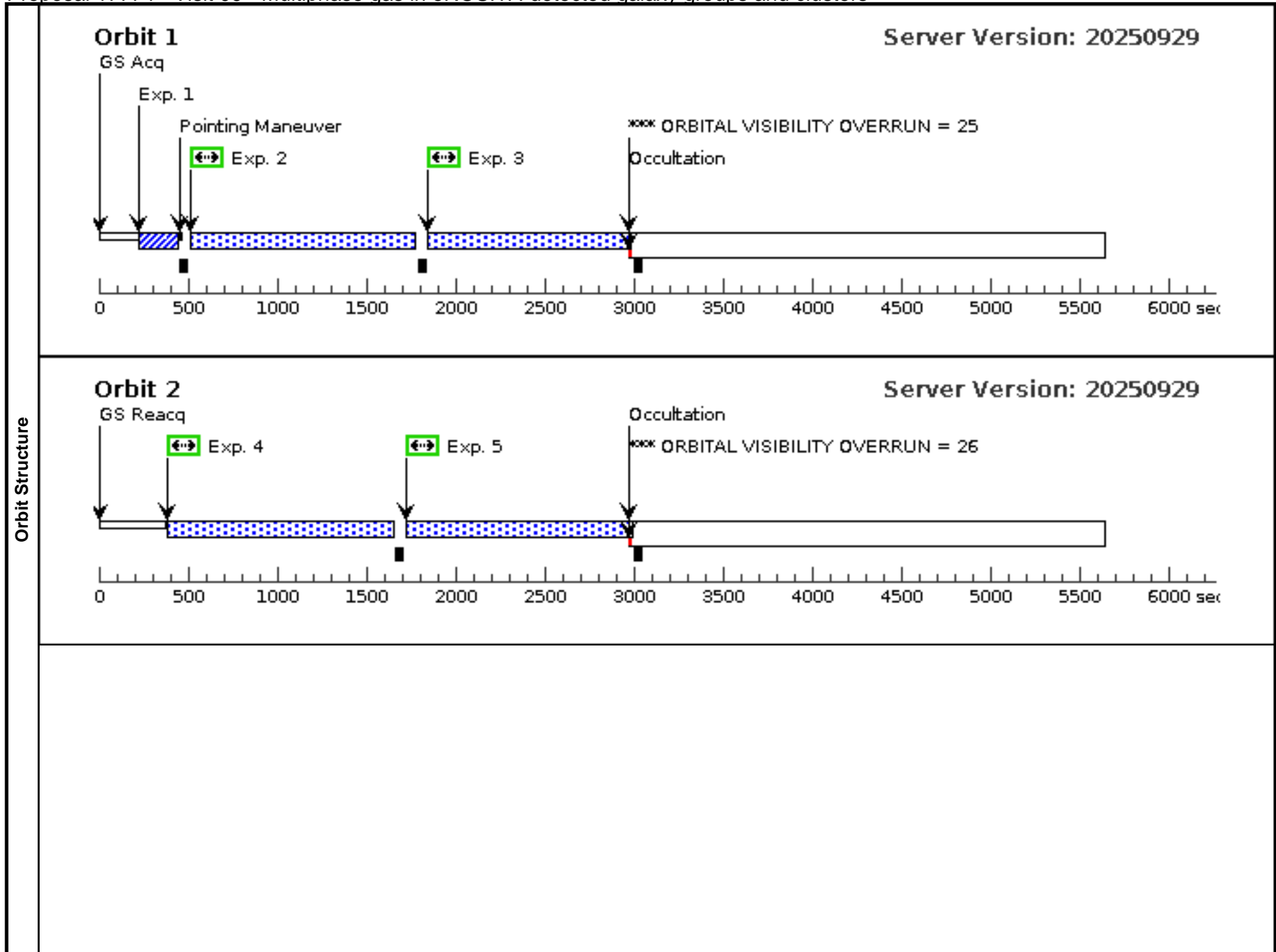


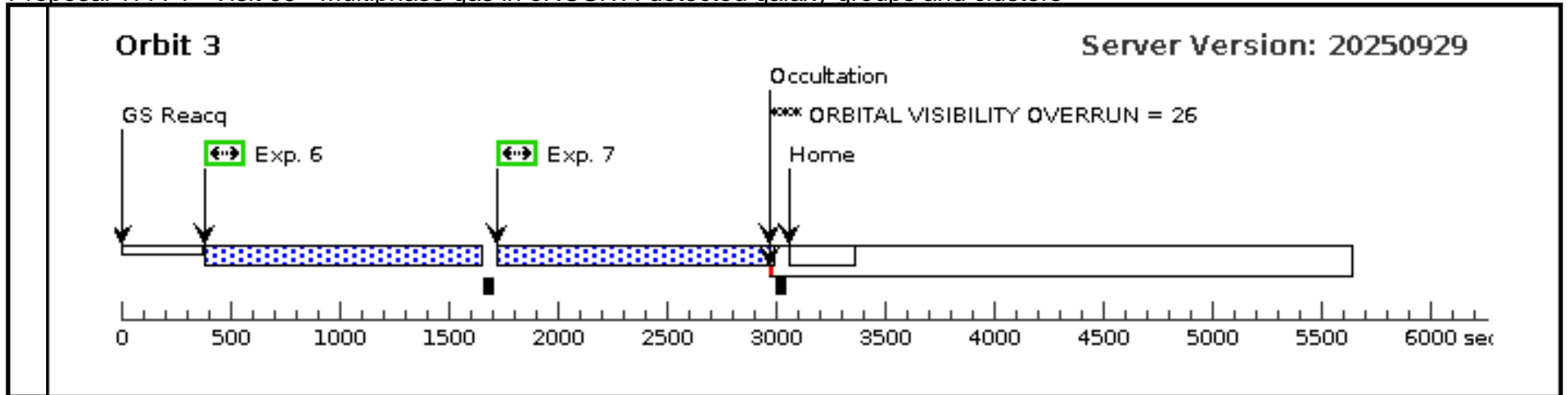


Proposal 17774 - Visit 09 - Multiphase gas in eROSITA-detected galaxy groups and clusters

Wed Feb 11 18:00:36 GMT 2026

<b>Visit</b>	<b>Proposal 17774, Visit 09, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)				
	(Visit 09) Warning (Orbit Planner): COS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS (Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN				
<b>Fixed Targets</b>	# <b>Name</b> <b>Target Coordinates</b> <b>Targ. Coord. Corrections</b> <b>Fluxes</b> <b>Miscellaneous</b>	(9)      SDSSJ101314.86-005233.6      RA: 10 13 14.8580 (153.3119083d) Dec: -00 52 33.63 (-.87601d) Equinox: J2000	V=17.825 FUV=18.49046516	Reference Frame: ICRS	
	Comments: Category=GALAXY Description=[QSO, QUASAR] Extended=NO				
<b>Exposures</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      (COS.ta.193 4322)      (9) SDSSJ101314.86-005233.6      COS/NUV, ACQ/IMAGE, PSA      MIRRORA		2.4 Secs (2.4 Secs) [==>]	[1]
	2      (COS.sp.193 2114)      (9) SDSSJ101314.86-005233.6      COS/FUV, TIME-TAG, PSA      G130M 1291 A	BUFFER-TIME=44 70; SEGMENT=BOTH; FP-POS=3		1093.0 Secs (1093 Secs) [==>]	[1]
	3      (COS.sp.193 2114)      (9) SDSSJ101314.86-005233.6      COS/FUV, TIME-TAG, PSA      G130M 1291 A	BUFFER-TIME=44 70; SEGMENT=BOTH; FP-POS=3		1092.0 Secs (1092 Secs) [==>]	[1]
	4      (COS.sp.193 2114)      (9) SDSSJ101314.86-005233.6      COS/FUV, TIME-TAG, PSA      G130M 1291 A	BUFFER-TIME=44 70; SEGMENT=BOTH; FP-POS=3		1219.0 Secs (1219 Secs) [==>]	[2]
	5      (COS.sp.193 2114)      (9) SDSSJ101314.86-005233.6      COS/FUV, TIME-TAG, PSA      G130M 1291 A	BUFFER-TIME=44 70; SEGMENT=BOTH; FP-POS=4		1218.0 Secs (1218 Secs) [==>]	[2]
	6      (COS.sp.193 2114)      (9) SDSSJ101314.86-005233.6      COS/FUV, TIME-TAG, PSA      G130M 1291 A	BUFFER-TIME=44 70; SEGMENT=BOTH; FP-POS=4		1221.0 Secs (1221 Secs) [==>]	[3]
	7      (COS.sp.193 2114)      (9) SDSSJ101314.86-005233.6      COS/FUV, TIME-TAG, PSA      G130M 1291 A	BUFFER-TIME=44 70; SEGMENT=BOTH; FP-POS=4		1219.0 Secs (1219 Secs) [==>]	[3]

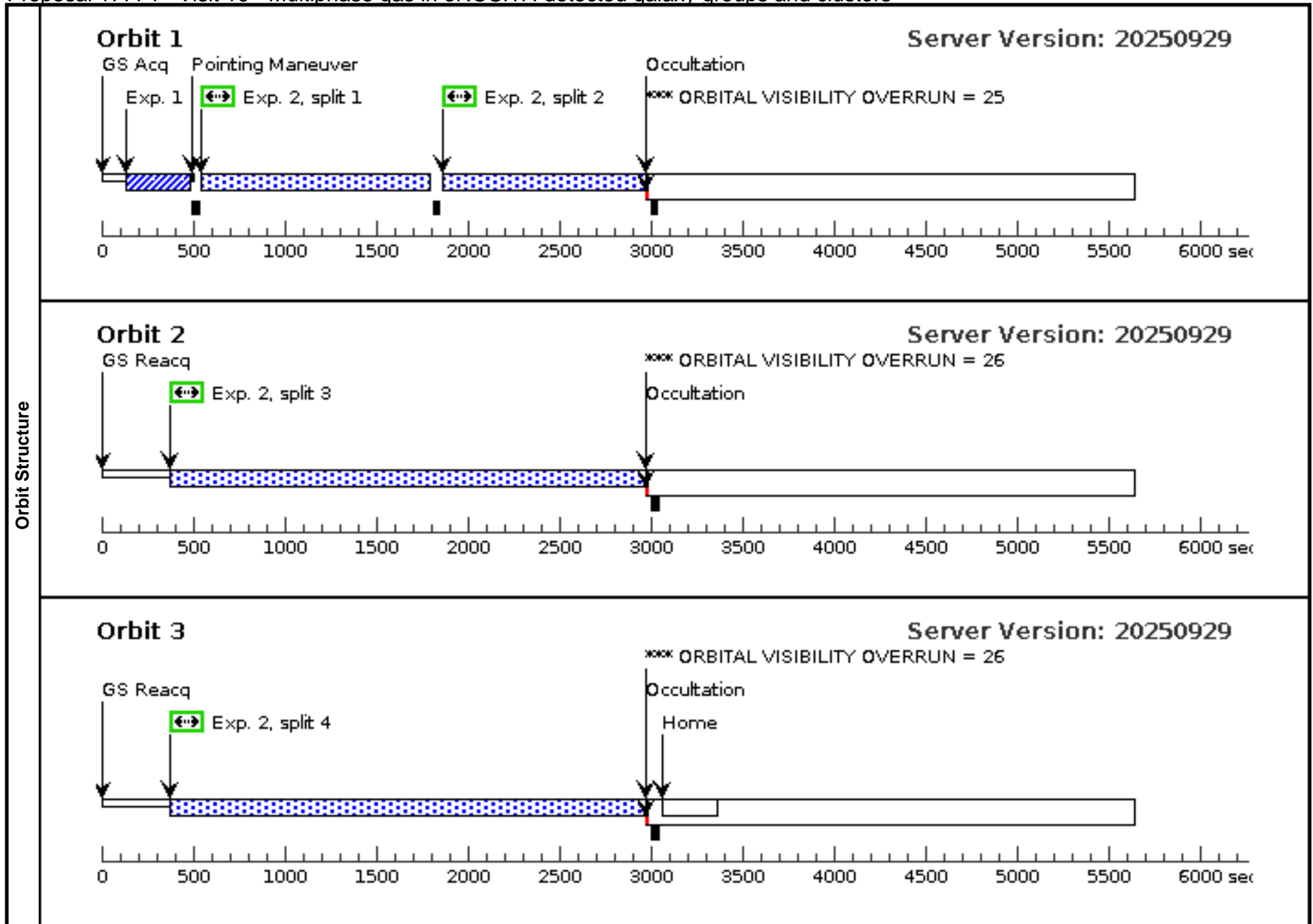




Proposal 17774 - Visit 10 - Multiphase gas in eROSITA-detected galaxy groups and clusters

Wed Feb 11 18:00:36 GMT 2026

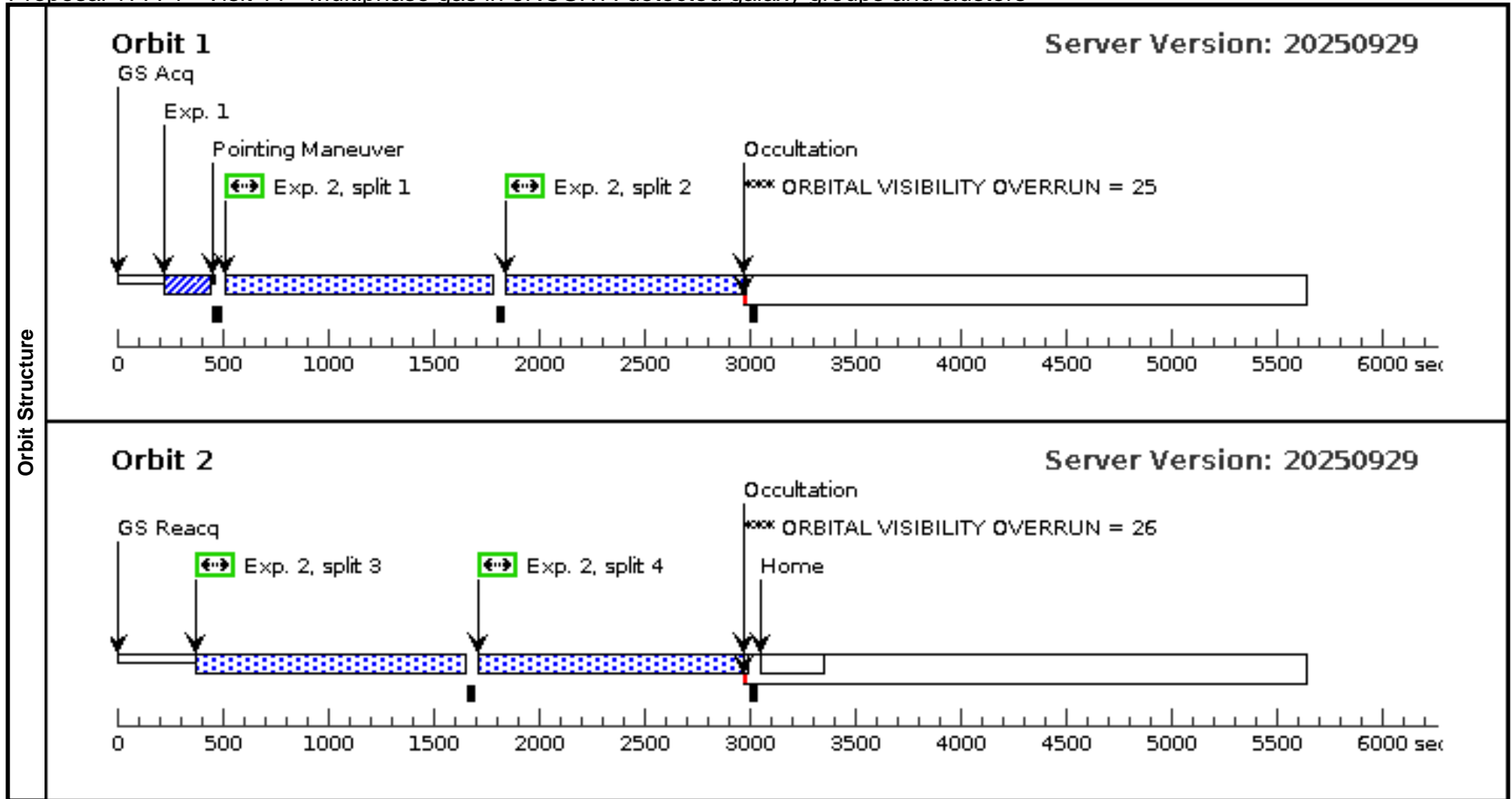
<b>Visit</b>	<b>Proposal 17774, Visit 10, scheduling</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)											
	(Visit 10) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 10) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 10) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
<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)	SDSSJ125849.84-014303.3	RA: 12 58 49.8351 (194.7076462d) Dec: -01 43 3.23 (-1.71756d) Equinox: J2000				V=17.116 FUV=18.16498375		Reference Frame: ICRS			
Comments: Category=GALAXY Description=[QSO, QUASAR] 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	(COS.ta.193 4325)	(10) SDSSJ125849.8 4-014303.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				19.3 Secs (19.3 Secs)			
									[==>]		[1]	
	2	(COS.sp.193 2116)	(10) SDSSJ125849.8 4-014303.3	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=81 70;	FP-POS=ALL; SEGMENT=BOTH			1073 Secs (7265 Secs)		
										[==>1071.0 Secs (Split 1)]		[1]
									[==>1072.0 Secs (Split 2)]		[2]	
									[==>2561.0 Secs (Split 3)]		[3]	
									[==>2561.0 Secs (Split 4)]		[3]	



Proposal 17774 - Visit 11 - Multiphase gas in eROSITA-detected galaxy groups and clusters

Wed Feb 11 18:00:36 GMT 2026

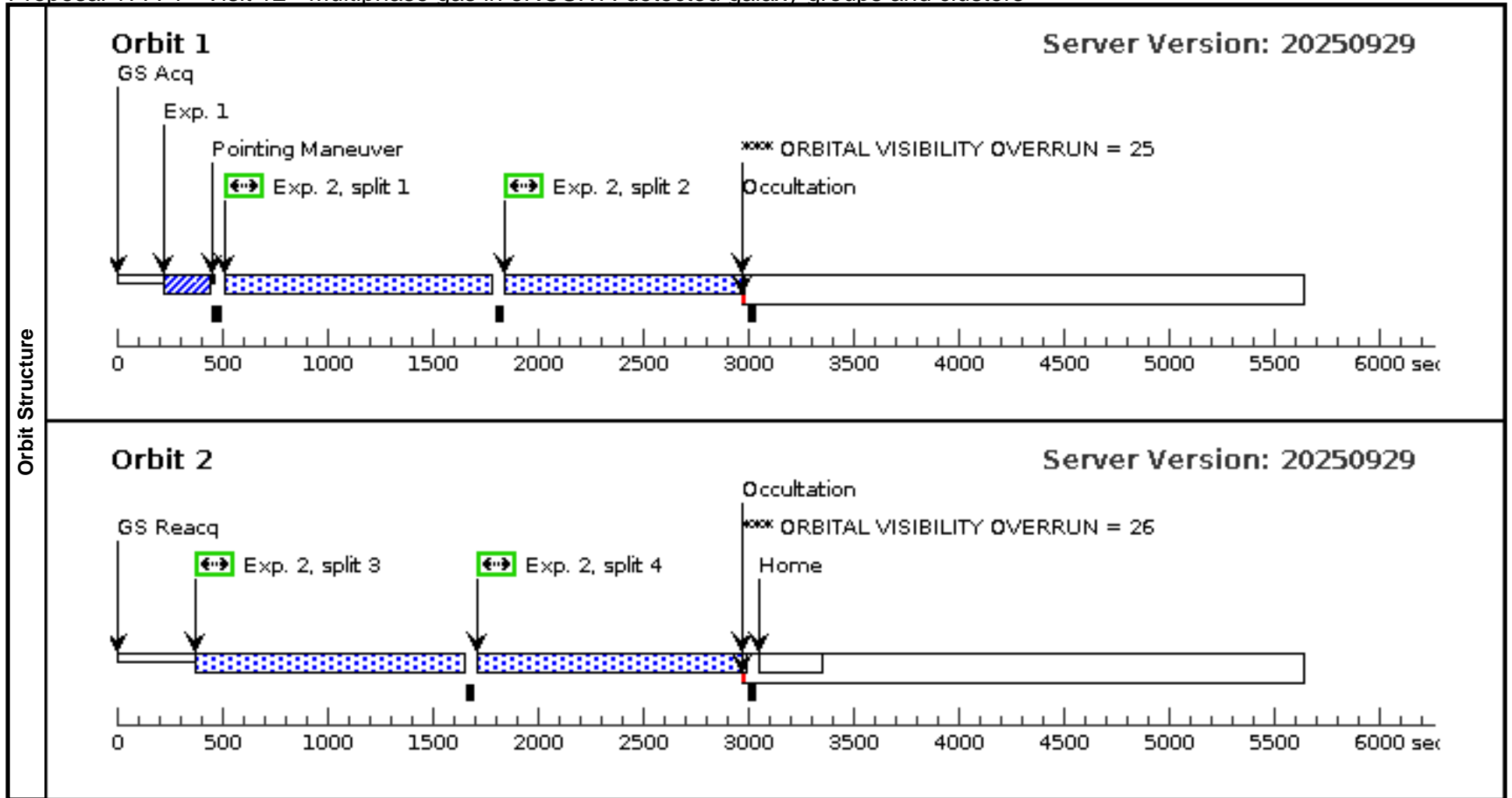
<b>Visit</b>	<b>Proposal 17774, Visit 11, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 11) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 11) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<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)	SDSSJ142500.00+024039.2	RA: 14 25 0.0121 (216.2500504d) Dec: +02 40 39.25 (2.67757d) Equinox: J2000		V=18.103 FUV=18.41496849	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QSO, QUASAR] 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	(COS.ta.193 4326)	(11) SDSSJ142500.0 0+024039.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				2.1 Secs (2.1 Secs)	
									[==>]	[1]
	2	(COS.sp.193 2117)	(11) SDSSJ142500.0 0+024039.2	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=86 60; SEGMENT=BOTH; FP-POS=ALL			1089 Secs (4623 Secs)	
								[==>1088.0 Secs (Split 1)]	[1]	
								[==>1089.0 Secs (Split 2)]		
								[==>1223.0 Secs (Split 3)]		
								[==>1223.0 Secs (Split 4)]	[2]	



Proposal 17774 - Visit 12 - Multiphase gas in eROSITA-detected galaxy groups and clusters

Wed Feb 11 18:00:36 GMT 2026

<b>Visit</b>	<b>Proposal 17774, Visit 12, scheduling</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 12) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 12) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<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)	SDSSJ142500.00+024039.2	RA: 14 25 0.0121 (216.2500504d) Dec: +02 40 39.25 (2.67757d) Equinox: J2000		V=18.103 FUV=18.41496849	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QSO, QUASAR] 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	(COS.ta.193 4326)	(11) SDSSJ142500.0 0+024039.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				2.1 Secs (2.1 Secs)	
									[==>]	[1]
	2	(COS.sp.193 2117)	(11) SDSSJ142500.0 0+024039.2	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=86 60; SEGMENT=BOTH; FP-POS=ALL			1089 Secs (4623 Secs)	
								[==>1088.0 Secs (Split 1)]	[1]	
								[==>1089.0 Secs (Split 2)]		
								[==>1223.0 Secs (Split 3)]		
								[==>1223.0 Secs (Split 4)]	[2]	



Proposal 17774 - Visit 13 - Multiphase gas in eROSITA-detected galaxy groups and clusters

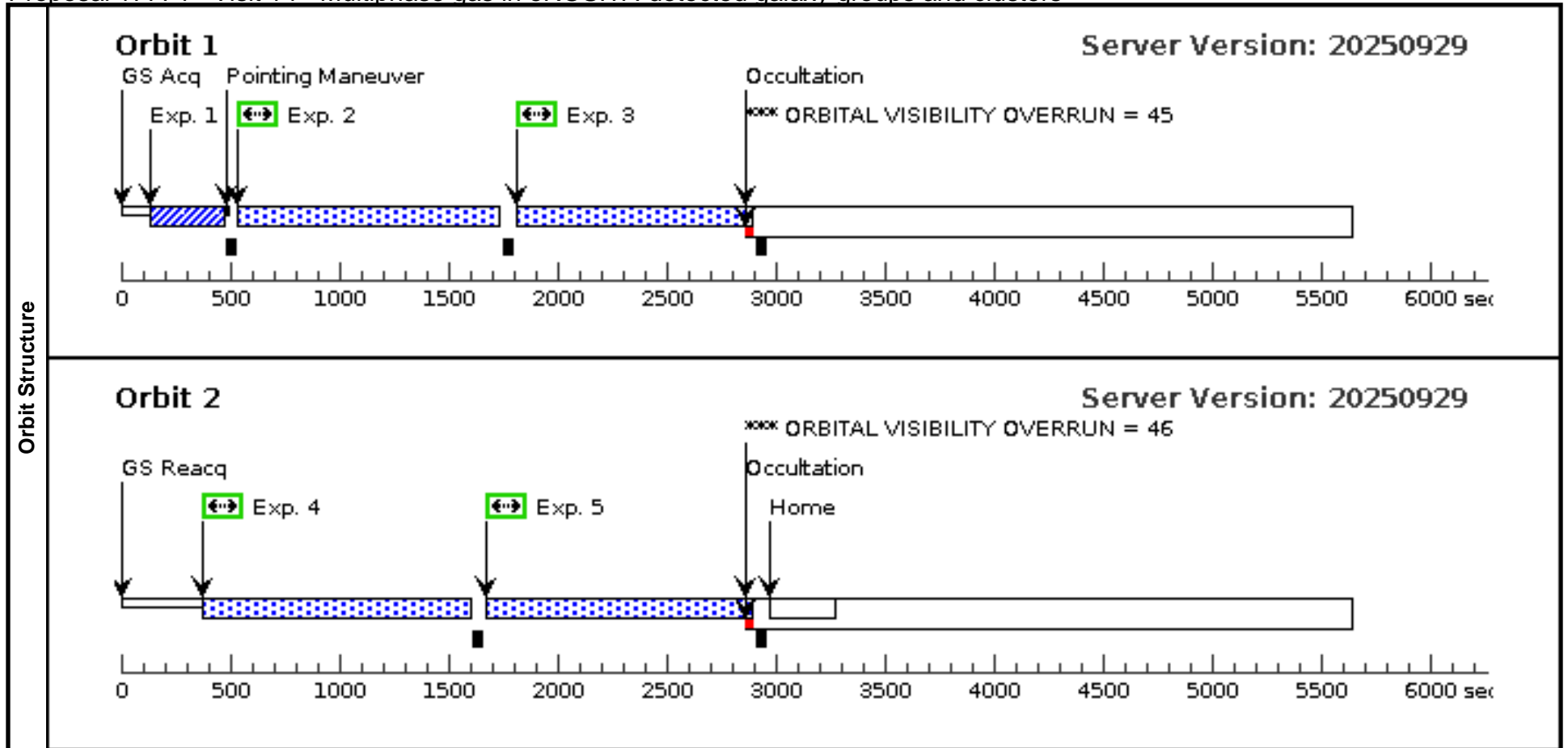
Wed Feb 11 18:00:36 GMT 2026

<b>Visit</b>	Proposal 17774, Visit 13, completed <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																												
<b>Diagnostics</b>	(Visit 13) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																												
<b>Fixed Targets</b>	# (12) Name TGS467Z204 Target Coordinates RA: 02 48 24.6509 (42.1027121d) Dec: -31 33 48.13 (-31.56337d) Equinox: J2000 Comments: Category=GALAXY Description=[QSO, QUASAR] Extended=NO	Targ. Coord. Corrections	Fluxes V=16.44 FUV=17.34727478	Miscellaneous Reference Frame: ICRS																																									
<b>Exposures</b>	<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>(COS.ta.193 4328)</td> <td>(12) TGS467Z204</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>12.4 Secs (12.4 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(COS.sp.193 2118)</td> <td>(12) TGS467Z204</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>BUFFER-TIME=36 00; SEGMENT=BOTH; FP-POS=3</td> <td></td> <td></td> <td>1096 Secs (1096 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>(COS.sp.193 2118)</td> <td>(12) TGS467Z204</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>BUFFER-TIME=36 00; SEGMENT=BOTH; FP-POS=4</td> <td></td> <td></td> <td>1095 Secs (1095 Secs) [==&gt;]</td> <td>[1]</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	(COS.ta.193 4328)	(12) TGS467Z204	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				12.4 Secs (12.4 Secs) [==>]	[1]	2	(COS.sp.193 2118)	(12) TGS467Z204	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=36 00; SEGMENT=BOTH; FP-POS=3			1096 Secs (1096 Secs) [==>]	[1]	3	(COS.sp.193 2118)	(12) TGS467Z204	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=36 00; SEGMENT=BOTH; FP-POS=4			1095 Secs (1095 Secs) [==>]	[1]				
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																				
1	(COS.ta.193 4328)	(12) TGS467Z204	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				12.4 Secs (12.4 Secs) [==>]	[1]																																				
2	(COS.sp.193 2118)	(12) TGS467Z204	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=36 00; SEGMENT=BOTH; FP-POS=3			1096 Secs (1096 Secs) [==>]	[1]																																				
3	(COS.sp.193 2118)	(12) TGS467Z204	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=36 00; SEGMENT=BOTH; FP-POS=4			1095 Secs (1095 Secs) [==>]	[1]																																				
<b>Orbit Structure</b>	<div style="display: flex; justify-content: space-between;"> <div> <h3>Orbit 1</h3> <p>The diagram shows a timeline for Orbit 1 from 0 to 6000 seconds. Key events include: GS Acq at ~100s, Pointing Maneuver at ~450s, Exp. 1 (blue hatched) from ~450s to ~500s, Exp. 2 (green checkered) from ~500s to ~1850s, Exp. 3 (green checkered) from ~1850s to ~3000s, Occultation (red bar) at ~3000s, and Home at ~3100s. A warning 'ORBITAL VISIBILITY OVERRUN = 46' is shown at the top right.</p> </div> <div> <p>Server Version: 20250929</p> </div> </div>																																												

Proposal 17774 - Visit 14 - Multiphase gas in eROSITA-detected galaxy groups and clusters

Wed Feb 11 18:00:36 GMT 2026

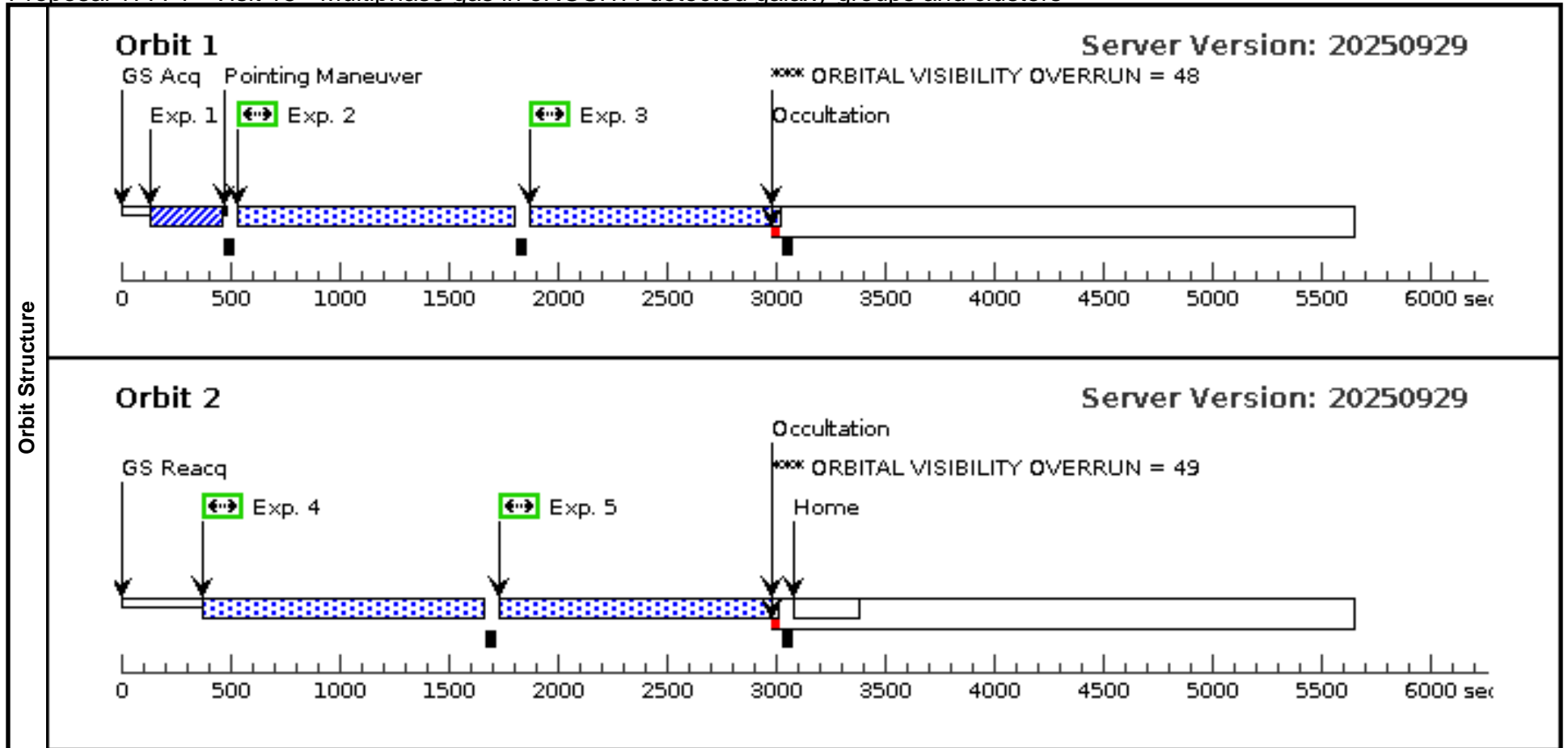
<b>Visit</b>	<b>Proposal 17774, Visit 14, scheduling</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%									
	(Visit 14) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 14) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(13)	UM472	RA: 12 03 32.9390 (180.8872458d) Dec: +02 29 34.61 (2.49295d) Equinox: J2000			V=16.562 FUV=17.66121674	Reference Frame: ICRS			
Comments: Category=GALAXY Description=[QSO, QUASAR] 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	(COS.ta.193 4330)	(13) UM472	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		GS ACQ SCENARI O BASE103		14.4 Secs (14.4 Secs) [==>]	[1]
	2	(COS.sp.193 2121)	(13) UM472	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=38 92; SEGMENT=BOTH; FP-POS=3			1035 Secs (1035 Secs) [==>]	[1]
	3	(COS.sp.193 2121)	(13) UM472	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=38 92; SEGMENT=BOTH; FP-POS=3			1034 Secs (1034 Secs) [==>]	[1]
	4	(COS.sp.193 2121)	(13) UM472	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=38 92; SEGMENT=BOTH; FP-POS=4			1174 Secs (1174 Secs) [==>]	[2]
	5	(COS.sp.193 2121)	(13) UM472	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=38 92; SEGMENT=BOTH; FP-POS=4			1174 Secs (1174 Secs) [==>]	[2]



Proposal 17774 - Visit 15 - Multiphase gas in eROSITA-detected galaxy groups and clusters

Wed Feb 11 18:00:36 GMT 2026

<b>Visit</b>	<b>Proposal 17774, Visit 15, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 15) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 15) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<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>				
	(14)	UVQSJ054917.24-254809.7	RA: 05 49 17.2435 (87.3218479d) Dec: -25 48 9.77 (-25.80271d) Equinox: J2000		V=16.792 FUV=17.59754944	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QSO, QUASAR] 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	(COS.ta.193 1459)	(14) UVQSJ054917.24-254809.7	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				12.5 Secs (12.5 Secs) [==>]	[1]
	2	(COS.sp.193 2123)	(14) UVQSJ054917.24-254809.7	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=38 36; SEGMENT=BOTH; FP-POS=3			1096 Secs (1096 Secs) [==>]	[1]
	3	(COS.sp.193 2123)	(14) UVQSJ054917.24-254809.7	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=38 36; SEGMENT=BOTH; FP-POS=3			1096 Secs (1096 Secs) [==>]	[1]
	4	(COS.sp.193 2123)	(14) UVQSJ054917.24-254809.7	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=38 36; SEGMENT=BOTH; FP-POS=4			1234 Secs (1234 Secs) [==>]	[2]
	5	(COS.sp.193 2123)	(14) UVQSJ054917.24-254809.7	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=38 36; SEGMENT=BOTH; FP-POS=4			1233 Secs (1233 Secs) [==>]	[2]



Proposal 17774 - Visit 16 - Multiphase gas in eROSITA-detected galaxy groups and clusters

Wed Feb 11 18:00:36 GMT 2026

<b>Visit</b>	<b>Proposal 17774, Visit 16, scheduling</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 16) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 16) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<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>				
	(15)	UVQSJ133435.46-313556.7	RA: 13 34 35.4601 (203.6477504d) Dec: -31 35 56.78 (-31.59911d) Equinox: J2000		V=14.5 FUV=17.77166748	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QSO, QUASAR] 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	(COS.ta.193 1458)	(15) UVQSJ133435.46-313556.7	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				18.8 Secs (18.8 Secs)	
									[==>]	[1]
	2	(COS.sp.193 2125)	(15) UVQSJ133435.46-313556.7	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=ALL; SEGMENT=BOTH; BUFFER-TIME=35 90			1080 Secs (4621 Secs)	
								[==>1082.0 Secs (Split 1)]	[1]	
								[==>1083.0 Secs (Split 2)]		
								[==>1228.0 Secs (Split 3)]		
								[==>1228.0 Secs (Split 4)]	[2]	

