



17491 - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Cycle: 31, Proposal Category: GO

(UV Initiative, Treasury)

(Availability Mode: SUPPORTED)

INVESTIGATORS

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Dr. Yong Zheng (CoI)	Rensselaer Polytechnic Institute
Dr. Claus Leitherer (CoI)	Space Telescope Science Institute
Dr. Calum Hawcroft (CoI)	Space Telescope Science Institute
Dr. Aleksandra Hamanowicz (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) LEOA-GWS-K1	COS/FUV COS/NUV	3	08-Dec-2025 13:00:17.0	yes
02	(1) LEOA-GWS-K1	COS/FUV COS/NUV	2	08-Dec-2025 13:00:17.0	yes

Proposal 17491 (STScI Edit Number: 2, Created: Monday, December 8, 2025, 1:00:45PM Eastern Standard Time) - Overview

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
03	(1) LEOA-GWS-K1	COS/FUV COS/NUV	2	08-Dec-2025 13:00:18.0	yes
04	(2) LEOA-GWS-K2	COS/FUV COS/NUV	3	08-Dec-2025 13:00:18.0	yes
05	(2) LEOA-GWS-K2	COS/FUV COS/NUV	3	08-Dec-2025 13:00:18.0	yes
06	(2) LEOA-GWS-K2	COS/FUV COS/NUV	2	08-Dec-2025 13:00:19.0	yes
07	(3) SEXA-LGN-S002	COS/FUV COS/NUV	3	08-Dec-2025 13:00:19.0	yes
57	(3) SEXA-LGN-S002	COS/FUV COS/NUV	1	08-Dec-2025 13:00:20.0	yes
08	(3) SEXA-LGN-S002	COS/FUV COS/NUV	2	08-Dec-2025 13:00:20.0	yes
58	(3) SEXA-LGN-S002	COS/FUV COS/NUV	2	08-Dec-2025 13:00:21.0	yes
09	(3) SEXA-LGN-S002	COS/FUV COS/NUV	2	08-Dec-2025 13:00:21.0	yes
59	(3) SEXA-LGN-S002	COS/FUV COS/NUV	2	08-Dec-2025 13:00:21.0	yes
10	(4) SEXA-LGN-S004	COS/FUV COS/NUV	3	08-Dec-2025 13:00:22.0	yes
60	(4) SEXA-LGN-S004	COS/FUV COS/NUV	3	08-Dec-2025 13:00:22.0	yes
11	(4) SEXA-LGN-S004	COS/FUV COS/NUV	3	08-Dec-2025 13:00:23.0	yes
61	(4) SEXA-LGN-S004	COS/FUV COS/NUV	2	08-Dec-2025 13:00:23.0	yes

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Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
12	(4) SEXA-LGN-S004	COS/FUV COS/NUV	2	08-Dec-2025 13:00:24.0	yes
13	(4) SEXA-LGN-S004	COS/FUV COS/NUV	2	08-Dec-2025 13:00:24.0	yes
63	(4) SEXA-LGN-S004	COS/FUV COS/NUV	2	08-Dec-2025 13:00:24.0	yes
14	(5) SEXA-LGN-S007	COS/FUV COS/NUV	3	08-Dec-2025 13:00:25.0	yes
64	(5) SEXA-LGN-S007	COS/FUV COS/NUV	3	08-Dec-2025 13:00:25.0	yes
15	(5) SEXA-LGN-S007	COS/FUV COS/NUV	3	08-Dec-2025 13:00:25.0	yes
65	(5) SEXA-LGN-S007	COS/FUV COS/NUV	1	08-Dec-2025 13:00:26.0	yes
16	(5) SEXA-LGN-S007	COS/FUV COS/NUV	2	08-Dec-2025 13:00:26.0	yes
66	(5) SEXA-LGN-S007	COS/FUV COS/NUV	2	08-Dec-2025 13:00:26.0	yes
96	(5) SEXA-LGN-S007	COS/FUV COS/NUV	1	08-Dec-2025 13:00:27.0	yes
17	(6) SEXA-LGN-S016	COS/FUV COS/NUV	3	08-Dec-2025 13:00:27.0	yes
67	(6) SEXA-LGN-S016	COS/FUV COS/NUV	1	08-Dec-2025 13:00:27.0	yes
18	(6) SEXA-LGN-S016	COS/FUV COS/NUV	3	08-Dec-2025 13:00:28.0	yes
19	(6) SEXA-LGN-S016	COS/FUV COS/NUV	3	08-Dec-2025 13:00:28.0	yes

Proposal 17491 (STScI Edit Number: 2, Created: Monday, December 8, 2025, 1:00:45PM Eastern Standard Time) - Overview

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
69	(6) SEXA-LGN-S016	COS/FUV COS/NUV	3	08-Dec-2025 13:00:29.0	yes
20	(6) SEXA-LGN-S016	COS/FUV COS/NUV	3	08-Dec-2025 13:00:29.0	yes
70	(6) SEXA-LGN-S016	COS/FUV COS/NUV	3	08-Dec-2025 13:00:30.0	yes
21	(6) SEXA-LGN-S016	COS/FUV COS/NUV	2	08-Dec-2025 13:00:30.0	yes
22	(6) SEXA-LGN-S016	COS/FUV COS/NUV	3	08-Dec-2025 13:00:31.0	yes
72	(6) SEXA-LGN-S016	COS/FUV COS/NUV	3	08-Dec-2025 13:00:31.0	yes
23	(6) SEXA-LGN-S016	COS/FUV COS/NUV	3	08-Dec-2025 13:00:32.0	yes
73	(6) SEXA-LGN-S016	COS/FUV COS/NUV	3	08-Dec-2025 13:00:32.0	yes
24	(7) IC1613-GHV-64066	COS/FUV COS/NUV	1	08-Dec-2025 13:00:33.0	yes
25	(8) IC1613-GHV-67684	COS/FUV COS/NUV	2	08-Dec-2025 13:00:33.0	yes
26	(9) NGC3109-EBU-20	COS/FUV COS/NUV	3	08-Dec-2025 13:00:33.0	yes
27	(9) NGC3109-EBU-20	COS/FUV COS/NUV	3	08-Dec-2025 13:00:34.0	yes
28	(10) NGC3109-EBU-48	COS/FUV COS/NUV	3	08-Dec-2025 13:00:35.0	yes
78	(10) NGC3109-EBU-48	COS/FUV COS/NUV	2	08-Dec-2025 13:00:35.0	yes

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Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
29	(10) NGC3109-EBU-48	COS/FUV COS/NUV	3	08-Dec-2025 13:00:36.0	yes
30	(10) NGC3109-EBU-48	COS/FUV COS/NUV	3	08-Dec-2025 13:00:36.0	yes
31	(10) NGC3109-EBU-48	COS/FUV COS/NUV	3	08-Dec-2025 13:00:37.0	yes
81	(10) NGC3109-EBU-48	COS/FUV COS/NUV	2	08-Dec-2025 13:00:37.0	yes
32	(10) NGC3109-EBU-48	COS/FUV COS/NUV	3	08-Dec-2025 13:00:38.0	yes
82	(10) NGC3109-EBU-48	COS/FUV COS/NUV	1	08-Dec-2025 13:00:38.0	yes
33	(11) NGC3109-1	COS/FUV COS/NUV	3	08-Dec-2025 13:00:39.0	yes
83	(11) NGC3109-1	COS/FUV COS/NUV	1	08-Dec-2025 13:00:39.0	yes
34	(11) NGC3109-1	COS/FUV COS/NUV	3	08-Dec-2025 13:00:40.0	yes
35	(11) NGC3109-1	COS/FUV COS/NUV	2	08-Dec-2025 13:00:41.0	yes
36	(11) NGC3109-1	COS/FUV COS/NUV	2	08-Dec-2025 13:00:41.0	yes
37	(12) WLM-1	COS/FUV COS/NUV	3	08-Dec-2025 13:00:42.0	yes
38	(12) WLM-1	COS/FUV COS/NUV	3	08-Dec-2025 13:00:42.0	yes
39	(12) WLM-1	COS/FUV COS/NUV	2	08-Dec-2025 13:00:43.0	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>
40	(12) WLM-1	COS/FUV COS/NUV	2	08-Dec-2025 13:00:43.0	yes
41	(12) WLM-1	COS/FUV COS/NUV	3	08-Dec-2025 13:00:44.0	yes
42	(12) WLM-1	COS/FUV COS/NUV	3	08-Dec-2025 13:00:44.0	yes

148 Total Orbits Used

ABSTRACT

JWST is revealing the low-metallicity galaxies that likely powered cosmic reionization at high redshift. These observations are revolutionizing our view of the early universe, but the community is under-prepared to interpret them because models of massive stars remain entirely theoretical and uncertain at the relevant metallicities ($<20\% Z_{\odot}$). FUV spectra from HST suggest that the winds and ionizing fluxes of O stars change substantially at low metallicity, but our understanding of this complex astrophysics is fundamentally limited by glaring gaps in the observational coverage of O-star parameter space.

We propose to assemble a comprehensive FUV spectral library of O stars in nearby galaxies at 5-10% $Z_{\odot}$ to complement the ULLYSES dataset at 20-50% $Z_{\odot}$. New COS G130M and/or G140L spectra of 12 stars will complete the wavelength coverage and moderate resolution required to determine their stellar and wind properties. The new spectra efficiently build on those already in MAST to sample the full range of O-star temperatures and luminosities. We will analyze the combined new and archival COS spectra of 29 O stars to (1) empirically calibrate mass-loss models below 20% $Z_{\odot}$ for the first time; and (2) produce data-driven ionizing spectral templates suitable to determine the contribution of metal-poor galaxies to cosmic reionization. We will release a science-ready, legacy dataset of FUV spectra and reduced ancillary observations as HLSPs for the community to enable new investigations of stellar and ISM physics at low metallicity. This program can only be completed with COS and will form the definitive FUV spectral atlas at very low metallicity for decades to come.

OBSERVING DESCRIPTION

We will observe 12 O-type stars in nearby, metal-poor dwarf galaxies with the Cosmic Origins Spectrograph. We will use the G130M and/or G140L gratings to achieve the moderate resolution and wavelength coverage of important stellar wind and photospheric features needed to constrain the mass-loss rates, metal abundances, and output of ionizing photons. We obtained initial coordinates by locating the target stars in HST imaging with

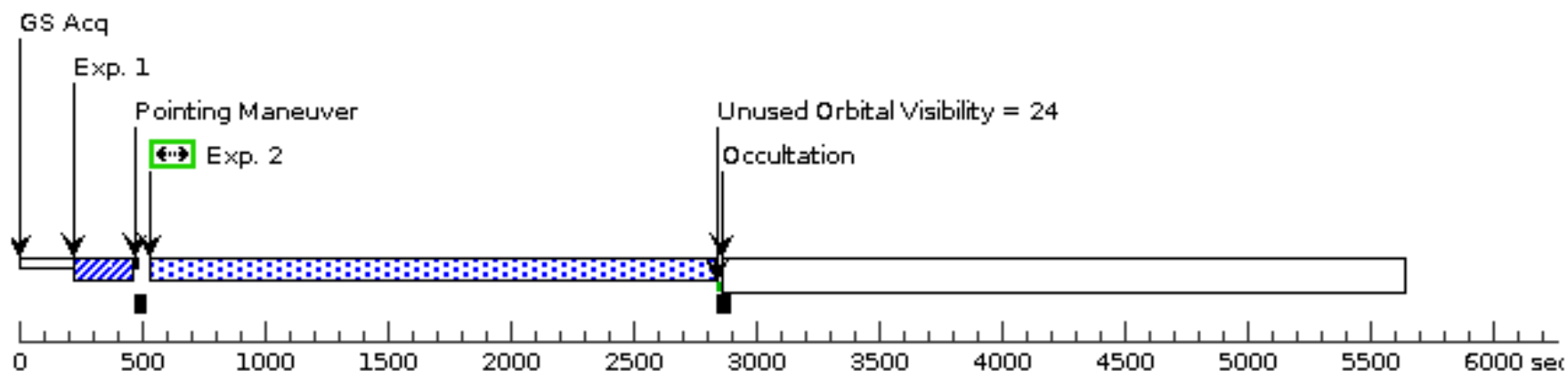
updated WCS information aligned to Gaia DR2. We then identified the target stars in the Gaia catalog and adopted the coordinates reported by Gaia for these observations. Gaia reports astrometric uncertainties less than 1 mas, but we conservatively estimate uncertainties of 0.05 arcsec. We calculate exposure times using the NUV F275W magnitudes of all target stars. We estimate the interstellar reddening assuming intrinsically blue colors typical of these spectral types and use the Bruzual spectral template with the most similar spectral type to each target star in the COS ETC. We have tested the impact of adopting models with different, but still similar, spectral types in the COS ETC and confirm that the estimated exposure times will achieve SNR ~ 10 or higher per resolution element near key photosphere and wind features. In most cases, we adopt BUFFER-TIMES of 2/3 times the values reported by the COS ETC. The exceptions are two stars with early spectral types not represented in the Bruzual templates available in the COS ETC (leaving their count rates more uncertain; IC1613-GHV-64066, NGC3109-EBU-48), as well as one with an unusually high buffer fill time compared to other, similar targets (NGC3109-1); in these cases, we conservatively adopt BUFFER-TIME = 1/2 times the ETC value to prevent possible data loss. We use the ACQ/IMAGE mode with the PSA and Mirror A for target acquisition. All our observations satisfy the BOT safety standards. We organize the observations into visits of at most 3 orbits, as strongly encouraged for Cycle 31 observations. For all spectroscopic observations, we use TIME-TAG mode with FLASH=YES. We use the G130M grating with the 1291 central wavelength to cover the N V 1240, O V 1371, and Si IV 1400 stellar wind profiles for stars that have not been previously observed with this grating. The G130M configuration only uses FP-POS=3, 4 to satisfy the COS2025 restrictions. We also use the G140L grating with the 800 central wavelength for stars that do not have existing G140L or G160M observations redward of ~ 1400 Angstroms to cover the forest of Fe IV transitions and the key C IV 1550 stellar wind profile. We use all available FP-POS=1, 2, 3, 4 for the G140L observations following the COS handbook, except for one single-orbit observation (of IC1613-GHV-64066) where we use only FP-POS=1, 4 to minimize the impact of overheads on the S/N of the observation. In the event of reduced-gyro operations, the main impact on this program will be to reduce the number of windows available to schedule observations. However, none of the visits have ORIENT or timing constraints, so the full program should still be schedulable without issues even in reduced-gyro mode. We re-ran the visit planner with Gyro Mode=1G and verified that plenty of observing windows remain for all visits.

Proposal 17491 - LEOA-GWS-K1-G130M (01) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, LEOA-GWS-K1-G130M (01), completed									Mon Dec 08 18:00:45 GMT 2025
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: SCHED 100%									
Diagnostics	(LEOA-GWS-K1-G130M (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(LEOA-GWS-K1-G130M (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	LEOA-GWS-K1	RA: 09 59 27.5237 (149.8646821d)		V=20.1	Reference Frame: ICRS				
		Alt Name1: J095927.53+304457.7	Dec: +30 44 57.75 (30.74938d)		F275W=17.82					
		Alt Name2: GAIA-DR3-744173560150512000	Equinox: J2000							
	Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	LEOA-GW S-K1-ACQ (COS.ta.188 9990)	(1) LEOA-GWS-K1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				10.5 Secs (10.5 Secs)	
									[==>]	[1]
	2	LEOA-GW S-K1-G130 M-FP3 (COS.sp.185 5018)	(1) LEOA-GWS-K1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=47 95; FLASH=YES; SEGMENT=BOTH			2100 Secs (2129 Secs)	
									[==>2129.0 Secs]	[1]
	3	LEOA-GW S-K1-G130 M-FP3 (COS.sp.185 5018)	(1) LEOA-GWS-K1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=47 95; FLASH=YES; SEGMENT=BOTH			2400 Secs (2451 Secs)	
									[==>2451.0 Secs]	[2]
	4	LEOA-GW S-K1-G130 M-FP4 (COS.sp.185 5018)	(1) LEOA-GWS-K1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=47 95; FLASH=YES; SEGMENT=BOTH			2400 Secs (2451 Secs)	
								[==>2451.0 Secs]	[3]	

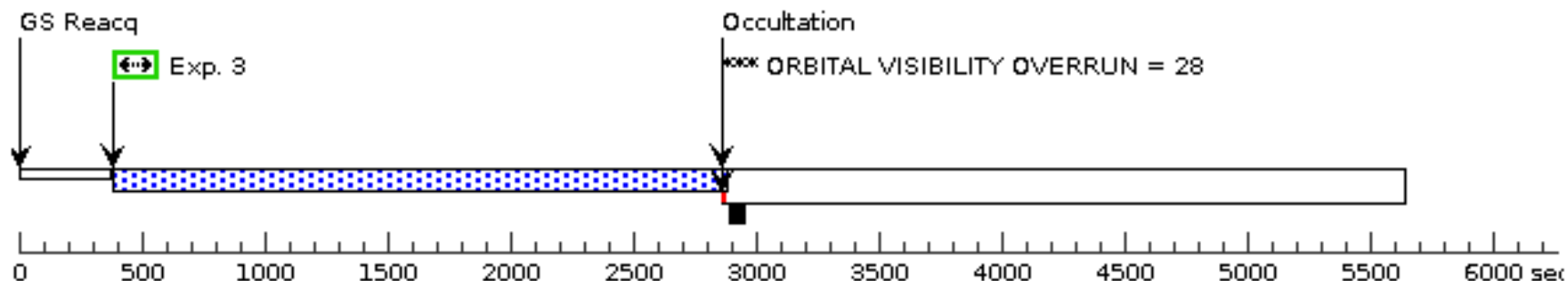
Orbit 1

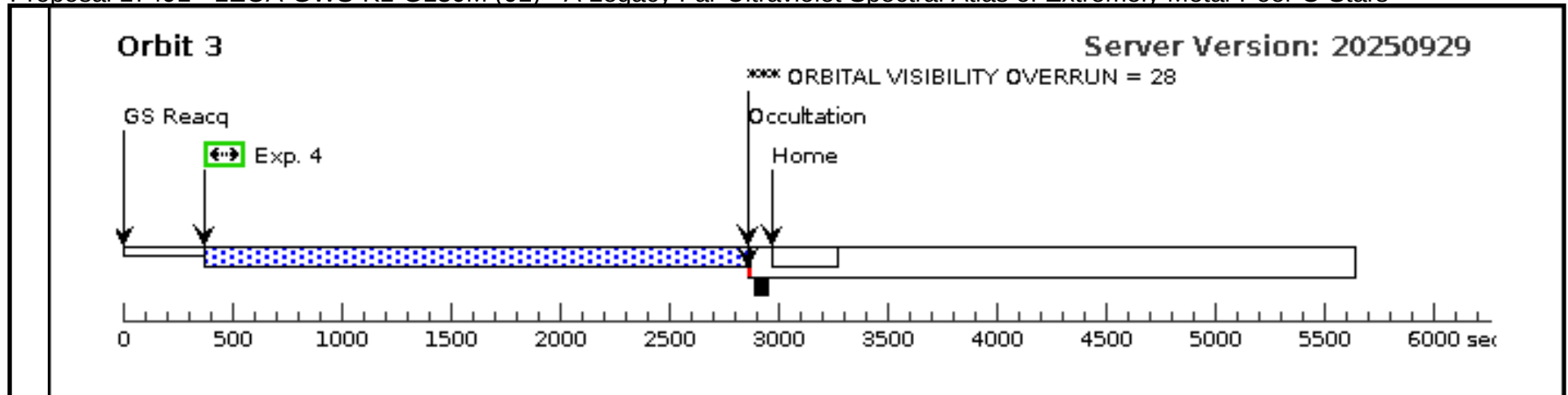
Server Version: 20250929



Orbit 2

Server Version: 20250929



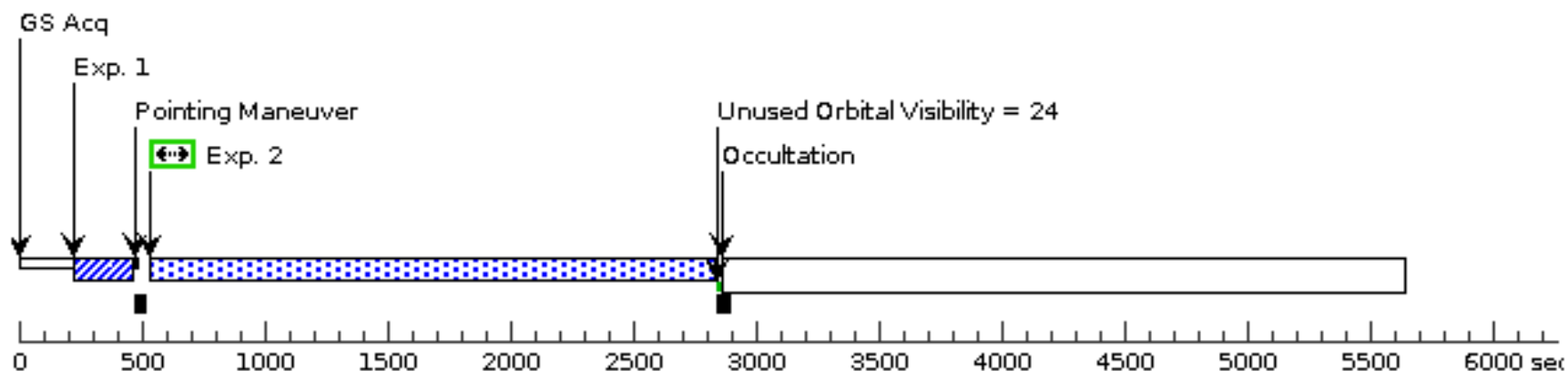


Proposal 17491 - LEOA-GWS-K1-G130M (02) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, LEOA-GWS-K1-G130M (02), completed										Mon Dec 08 18:00:45 GMT 2025	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: SCHED 100%											
Diagnostics	(LEOA-GWS-K1-G130M (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(1)	LEOA-GWS-K1	RA: 09 59 27.5237 (149.8646821d)				V=20.1		Reference Frame: ICRS			
		Alt Name1: J095927.53+304457.7	Dec: +30 44 57.75 (30.74938d)				F275W=17.82					
		Alt Name2: GAIA-DR3-744173560150512000	Equinox: J2000									
	Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	LEOA-GW S-K1-ACQ (COS.ta.188 9990)	(1) LEOA-GWS-K1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				10.5 Secs (10.5 Secs)			
									[==>]		[1]	
	2	LEOA-GW S-K1-G130 M-FP3 (COS.sp.185 5018)	(1) LEOA-GWS-K1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=47 95;			2100 Secs (2129 Secs)			
						FLASH=YES; SEGMENT=BOTH			[==>2129.0 Secs]		[1]	
	3	LEOA-GW S-K1-G130 M-FP4 (COS.sp.185 5018)	(1) LEOA-GWS-K1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=47 95;			2400 Secs (2451 Secs)			
					FLASH=YES; SEGMENT=BOTH			[==>2451.0 Secs]		[2]		

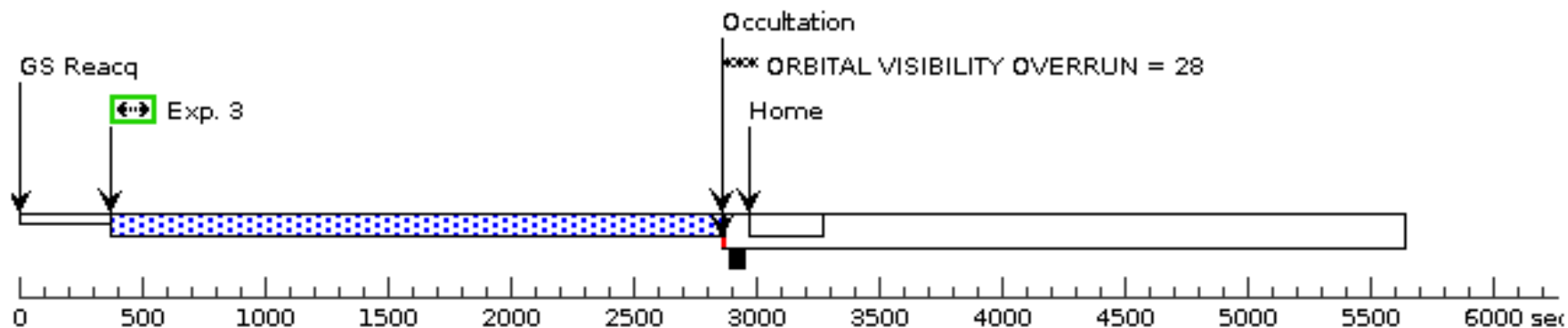
Orbit 1

Server Version: 20250929



Orbit 2

Server Version: 20250929

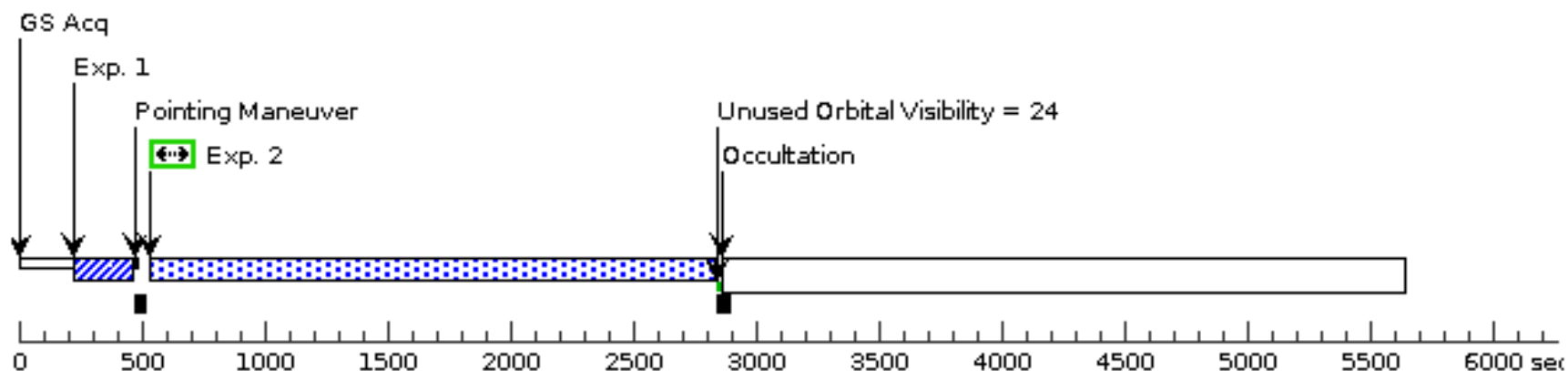


Proposal 17491 - LEOA-GWS-K1-G130M (03) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, LEOA-GWS-K1-G130M (03), completed Mon Dec 08 18:00:45 GMT 2025									
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%									
Diagnos	(LEOA-GWS-K1-G130M (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(1)	LEOA-GWS-K1 Alt Name1: J095927.53+304457.7 Alt Name2: GAIA-DR3- 744173560150512000 Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO	RA: 09 59 27.5237 (149.8646821d) Dec: +30 44 57.75 (30.74938d) Equinox: J2000			V=20.1 F275W=17.82	Reference Frame: ICRS			
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	LEOA-GW S-K1-ACQ (COS.ta.188 9990)	(1) LEOA-GWS-K1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				10.5 Secs (10.5 Secs) [==>]	[1]
	2	LEOA-GW S-K1-G130 M-FP3 (COS.sp.185 5018)	(1) LEOA-GWS-K1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=47 95; FLASH=YES; SEGMENT=BOTH			2100 Secs (2129 Secs) [==>2129.0 Secs]	[1]
	3	LEOA-GW S-K1-G130 M-FP4 (COS.sp.185 5018)	(1) LEOA-GWS-K1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=47 95; FLASH=YES; SEGMENT=BOTH			2400 Secs (2451 Secs) [==>2451.0 Secs]	[2]

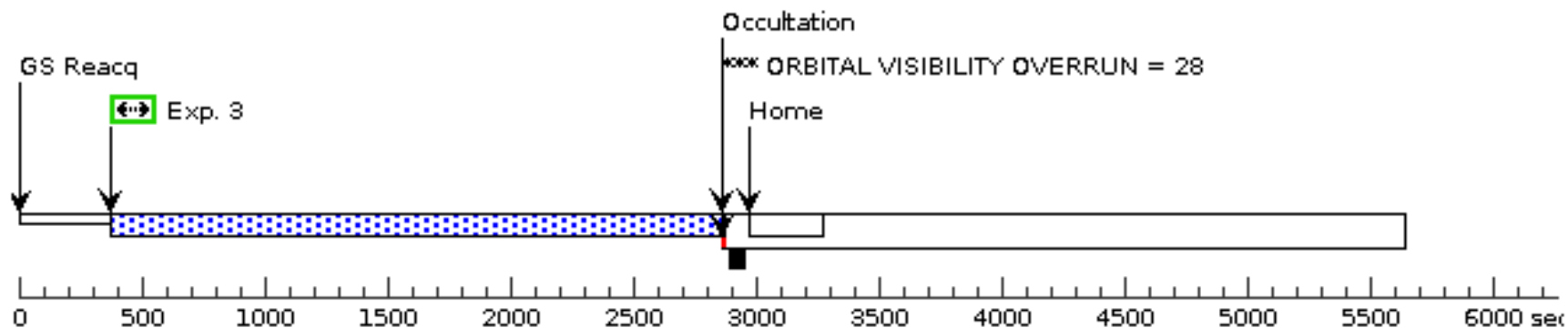
Orbit 1

Server Version: 20250929



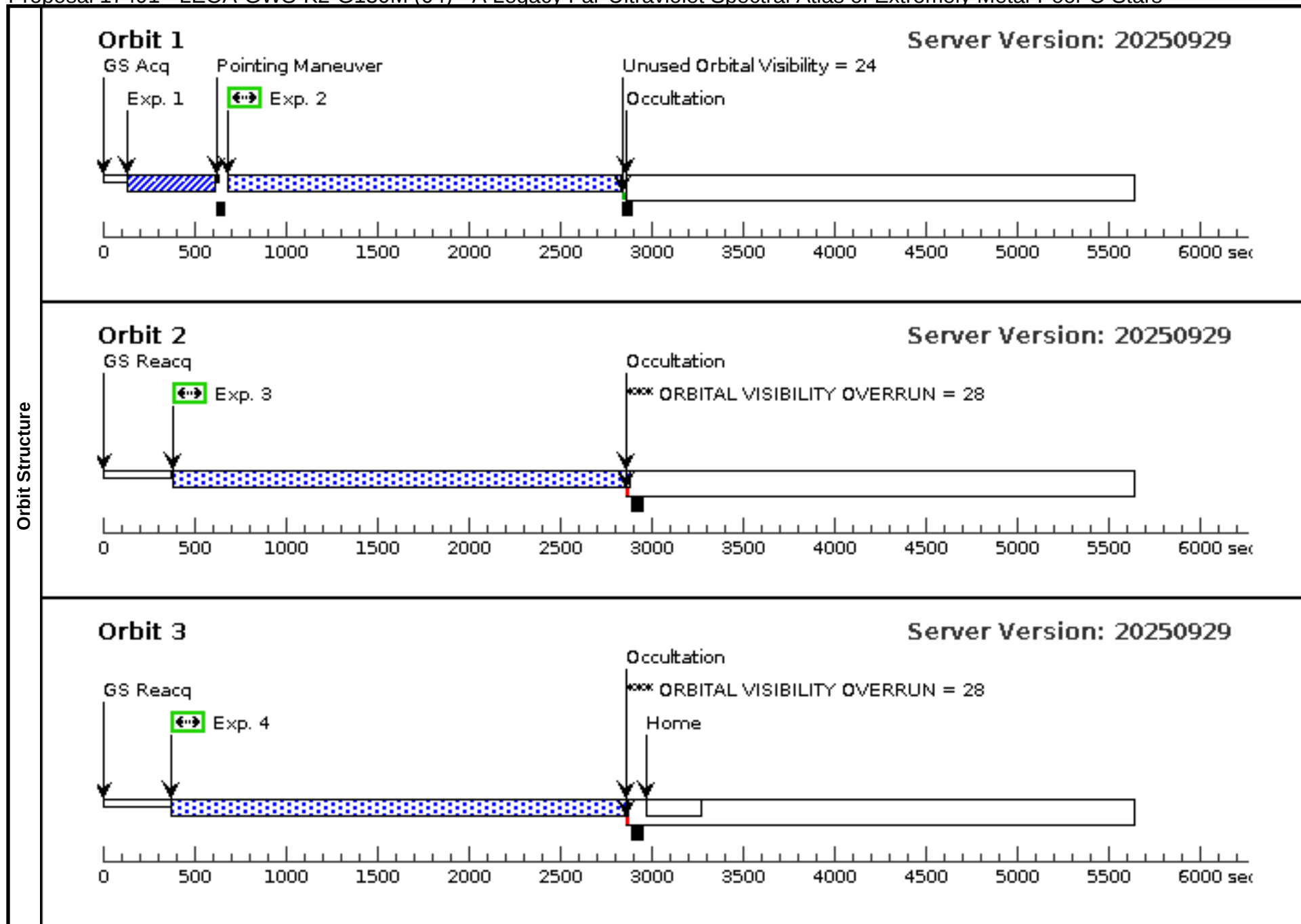
Orbit 2

Server Version: 20250929



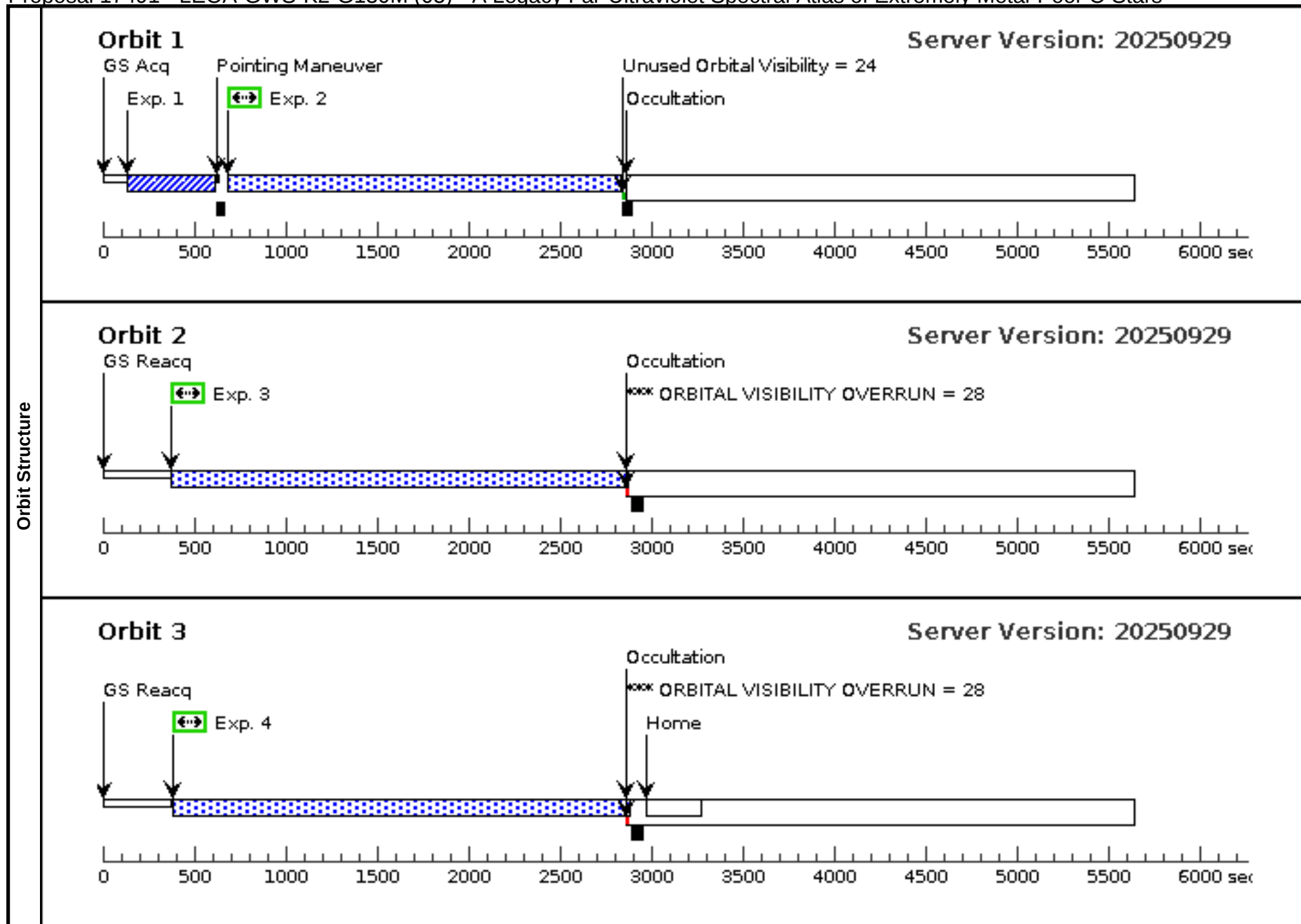
Proposal 17491 - LEOA-GWS-K2-G130M (04) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, LEOA-GWS-K2-G130M (04), completed										Mon Dec 08 18:00:45 GMT 2025	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: SCHED 100%											
Diagnostics	(LEOA-GWS-K2-G130M (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(LEOA-GWS-K2-G130M (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(2)	LEOA-GWS-K2	RA: 09 59 30.2244 (149.8759350d)					V=20.2		Reference Frame: ICRS		
		Alt Name1: J095930.22+304437.0	Dec: +30 44 37.08 (30.74363d)					F275W=17.96				
		Alt Name2: GAIA-DR3- 744173353992080000	Equinox: J2000									
		Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	LEOA-GW S-K2-ACQ (COS.ta.189 1490)	(2) LEOA-GWS-K2	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				86.7 Secs (86.7 Secs)		
										[>=>]	[1]	
		Comments: MIRRORA resulted in a BOT Health & Safety warning for a nearby GALEX source, so we use MIRRORB for TA instead.										
	2	LEOA-GW S-K2-G130 M-FP3 (COS.sp.185 5020)	(2) LEOA-GWS-K2	COS/FUV, TIME-TAG, PSA		G130M 1291 A	FP-POS=3; BUFFER-TIME=48 73; FLASH=YES; SEGMENT=BOTH			2100 Secs (1977 Secs)		
										[>=>1977.0 Secs]	[1]	
	3	LEOA-GW S-K2-G130 M-FP3 (COS.sp.185 5020)	(2) LEOA-GWS-K2	COS/FUV, TIME-TAG, PSA		G130M 1291 A	FP-POS=3; BUFFER-TIME=48 73; FLASH=YES; SEGMENT=BOTH			2400 Secs (2451 Secs)		
										[>=>2451.0 Secs]	[2]	
	4	LEOA-GW S-K2-G130 M-FP4 (COS.sp.185 5020)	(2) LEOA-GWS-K2	COS/FUV, TIME-TAG, PSA		G130M 1291 A	FP-POS=4; BUFFER-TIME=48 73; FLASH=YES; SEGMENT=BOTH			2400 Secs (2451 Secs)		
										[>=>2451.0 Secs]	[3]	



Proposal 17491 - LEOA-GWS-K2-G130M (05) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, LEOA-GWS-K2-G130M (05), completed										Mon Dec 08 18:00:45 GMT 2025	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: SCHED 100%											
Diagnostics	(LEOA-GWS-K2-G130M (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(LEOA-GWS-K2-G130M (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(2)	LEOA-GWS-K2	RA: 09 59 30.2244 (149.8759350d)					V=20.2		Reference Frame: ICRS		
		Alt Name1: J095930.22+304437.0	Dec: +30 44 37.08 (30.74363d)					F275W=17.96				
		Alt Name2: GAIA-DR3- 744173353992080000	Equinox: J2000									
	Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	LEOA-GW S-K2-ACQ (COS.ta.189 1490)	(2) LEOA-GWS-K2	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				86.7 Secs (86.7 Secs)		
										[>=>]	[1]	
	Comments: MIRRORA resulted in a BOT Health & Safety warning for a nearby GALEX source, so we use MIRRORB for TA instead.											
	2	LEOA-GW S-K2-G130 M-FP3 (COS.sp.185 5020)	(2) LEOA-GWS-K2	COS/FUV, TIME-TAG, PSA		G130M 1291 A	FP-POS=3; BUFFER-TIME=48 73; FLASH=YES; SEGMENT=BOTH			2100 Secs (1977 Secs)		
										[>=>1977.0 Secs]	[1]	
	3	LEOA-GW S-K2-G130 M-FP4 (COS.sp.185 5020)	(2) LEOA-GWS-K2	COS/FUV, TIME-TAG, PSA		G130M 1291 A	FP-POS=4; BUFFER-TIME=48 73; FLASH=YES; SEGMENT=BOTH			2400 Secs (2451 Secs)		
										[>=>2451.0 Secs]	[2]	
	4	LEOA-GW S-K2-G130 M-FP4 (COS.sp.185 5020)	(2) LEOA-GWS-K2	COS/FUV, TIME-TAG, PSA		G130M 1291 A	FP-POS=4; BUFFER-TIME=48 73; FLASH=YES; SEGMENT=BOTH			2400 Secs (2451 Secs)		
										[>=>2451.0 Secs]	[3]	



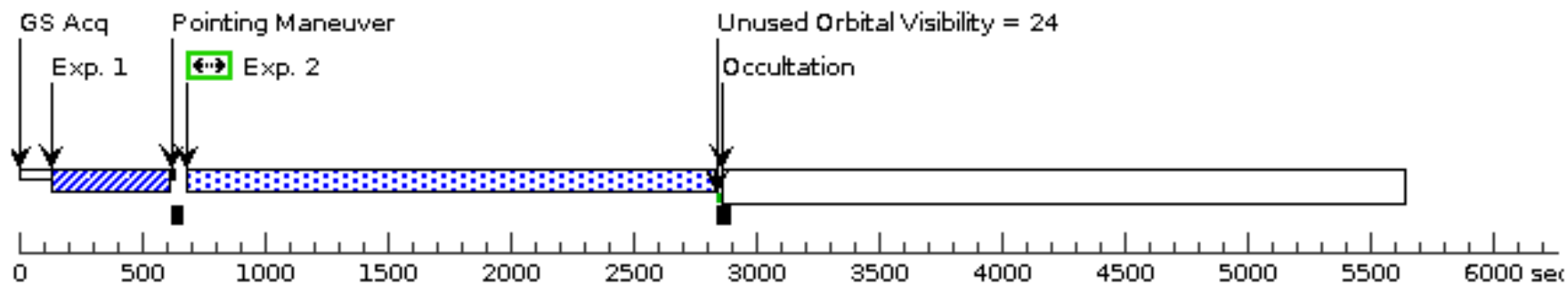
Proposal 17491 - LEOA-GWS-K2-G130M (06) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, LEOA-GWS-K2-G130M (06), completed										Mon Dec 08 18:00:45 GMT 2025		
	Diagnostic Status: Warning												
	Scientific Instruments: COS/FUV, COS/NUV												
	Special Requirements: SCHED 100%												
Diagnostics	(LEOA-GWS-K2-G130M (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(2)	LEOA-GWS-K2	RA: 09 59 30.2244 (149.8759350d)					V=20.2		Reference Frame: ICRS			
		Alt Name1: J095930.22+304437.0	Dec: +30 44 37.08 (30.74363d)					F275W=17.96					
		Alt Name2: GAIA-DR3-744173353992080000	Equinox: J2000										
	Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	LEOA-GW S-K2-ACQ (COS.ta.189 1490)	(2) LEOA-GWS-K2	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				86.7 Secs (86.7 Secs)			
										[==>]		[1]	
		Comments: MIRRORA resulted in a BOT Health & Safety warning for a nearby GALEX source, so we use MIRRORB for TA instead.											
	2	LEOA-GW S-K2-G130 M-FP3 (COS.sp.185 5020)	(2) LEOA-GWS-K2	COS/FUV, TIME-TAG, PSA		G130M 1291 A	FP-POS=3; BUFFER-TIME=48 73; FLASH=YES; SEGMENT=BOTH			2100 Secs (1977 Secs)			
										[==>1977.0 Secs]		[1]	
	3	LEOA-GW S-K2-G130 M-FP4 (COS.sp.185 5020)	(2) LEOA-GWS-K2	COS/FUV, TIME-TAG, PSA		G130M 1291 A	FP-POS=4; BUFFER-TIME=48 73; FLASH=YES; SEGMENT=BOTH			2400 Secs (2451 Secs)			
										[==>2451.0 Secs]		[2]	

Orbit Structure

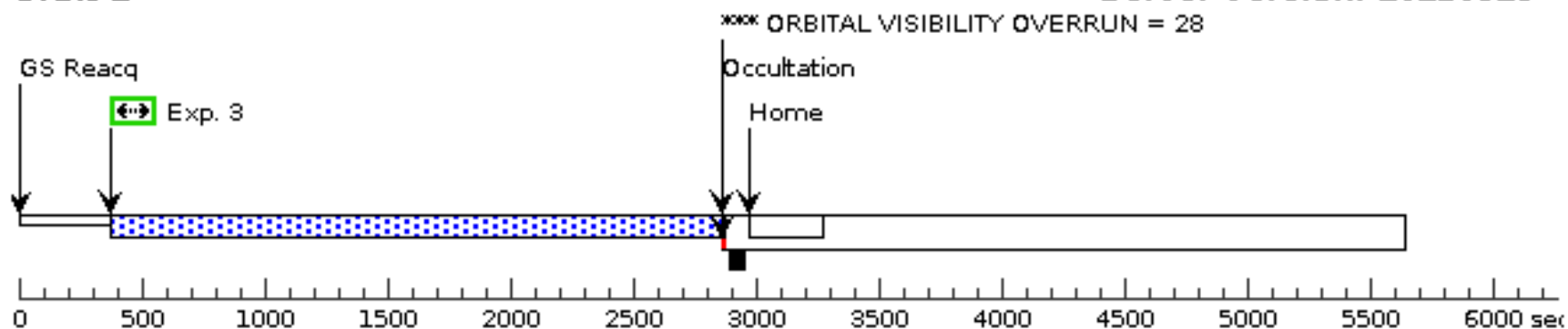
Orbit 1

Server Version: 20250929



Orbit 2

Server Version: 20250929

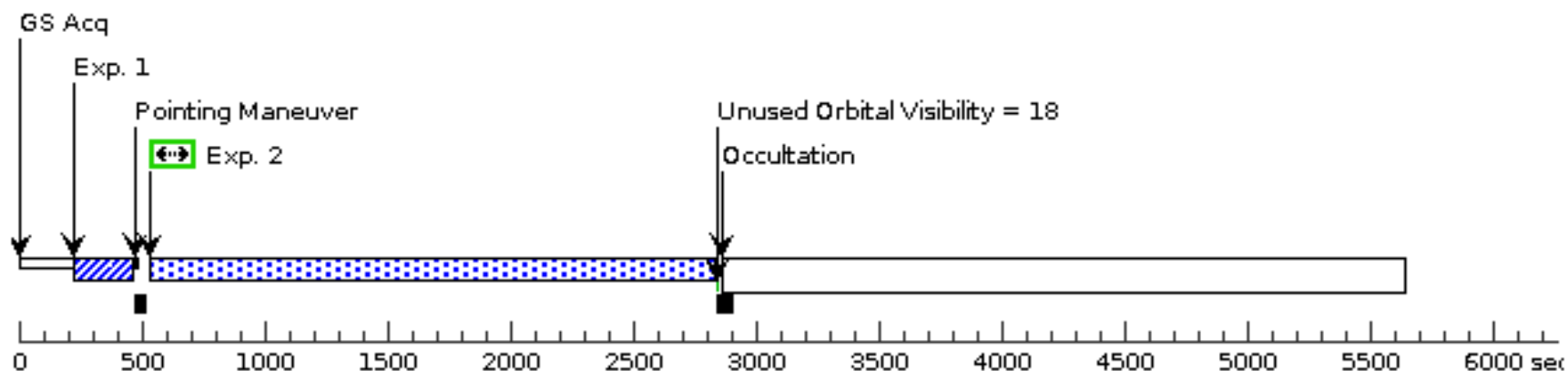


Proposal 17491 - SEXA-LGN-S002-G130M (07) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S002-G130M (07), failed Mon Dec 08 18:00:45 GMT 2025									
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%									
Diagnostics	(SEXA-LGN-S002-G130M (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(SEXA-LGN-S002-G130M (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(3)	SEXA-LGN-S002 Alt Name1: J101105.28-044238.3 Alt Name2: GAIA-DR3-3779987664804296320 Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO	RA: 10 11 5.2804 (152.7720017d) Dec: -04 42 38.36 (-4.71066d) Equinox: J2000			V=20.4 F275W=18.17		Reference Frame: ICRS		
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SEXA-LGN-S002-ACQ (COS.ta.188 9992)	(3) SEXA-LGN-S002	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12.5 Secs (12.5 Secs) [==>]	[1]
	2	SEXA-LGN-S002-G130 M-FP3 (COS.sp.185 3129)	(3) SEXA-LGN-S002	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=46 10; FLASH=YES; SEGMENT=BOTH			2100 Secs (2131 Secs) [==>2131.0 Secs]	[1]
	3	SEXA-LGN-S002-G130 M-FP3 (COS.sp.185 3129)	(3) SEXA-LGN-S002	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=46 10; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs) [==>2457.0 Secs]	[2]
	4	SEXA-LGN-S002-G130 M-FP4 (COS.sp.185 3129)	(3) SEXA-LGN-S002	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=46 10; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs) [==>2457.0 Secs]	[3]

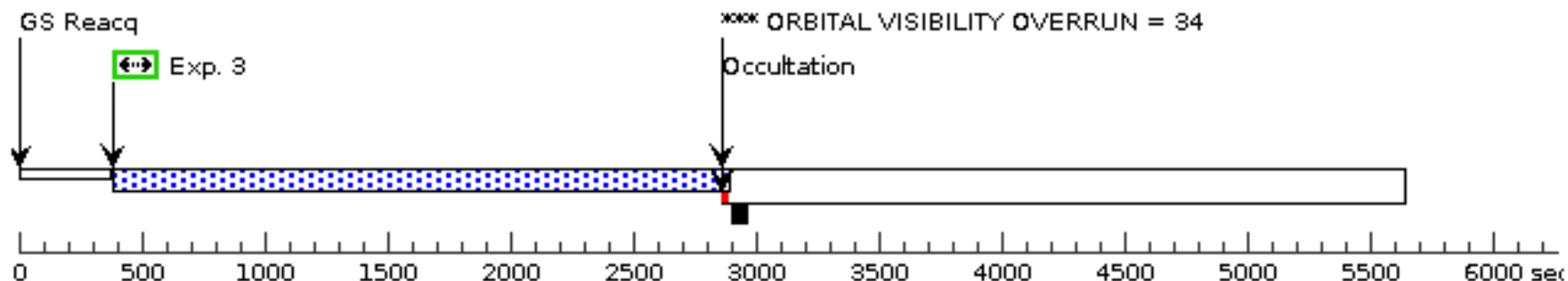
Orbit 1

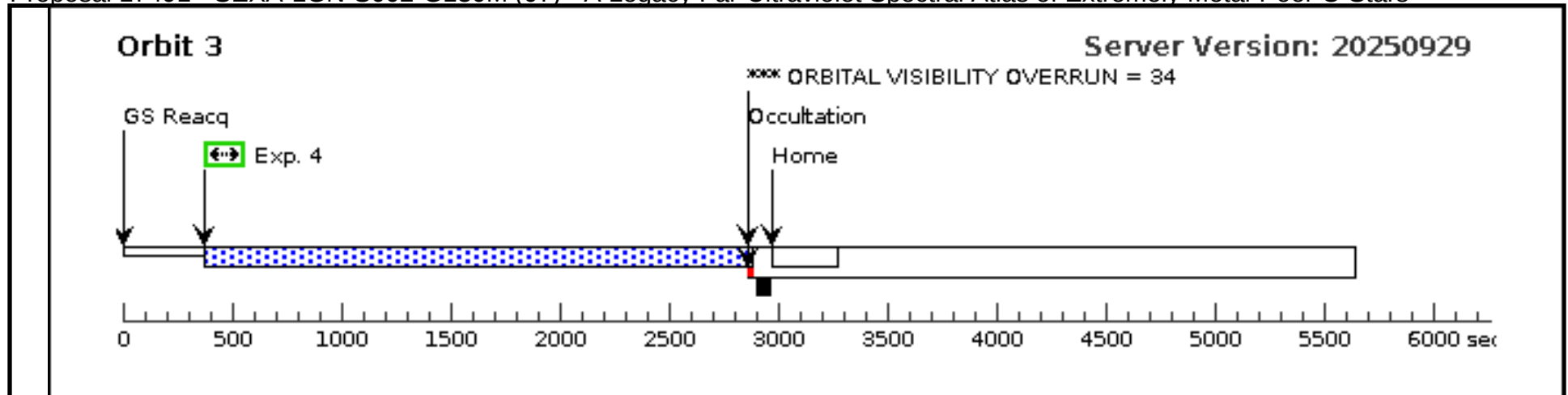
Server Version: 20250929



Orbit 2

Server Version: 20250929





Proposal 17491 - SEXA-LGN-S002-G130M (57) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

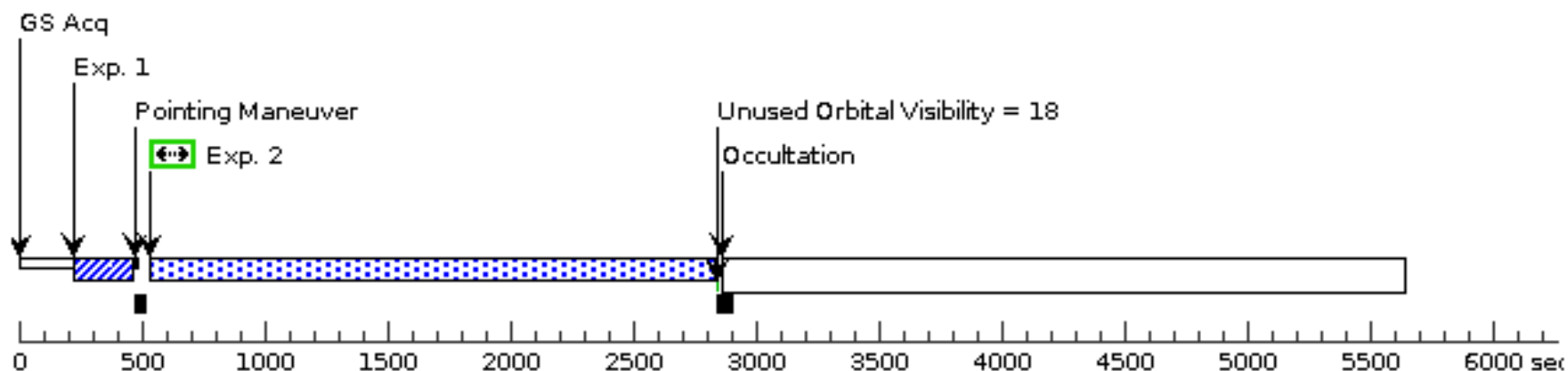
Visit	Proposal 17491, SEXA-LGN-S002-G130M (57), completed										Mon Dec 08 18:00:46 GMT 2025
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: SCHED 100%										
Diagnos	(SEXA-LGN-S002-G130M (57)) Warning (Form): For the best data quality, 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.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(3)	SEXA-LGN-S002	RA: 10 11 5.2804 (152.7720017d)				V=20.4		Reference Frame: ICRS		
		Alt Name1: J101105.28-044238.3	Dec: -04 42 38.36 (-4.71066d)				F275W=18.17				
		Alt Name2: GAIA-DR3-3779987664804296320	Equinox: J2000								
	Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	SEXA-LGN-S002-ACQ 2 (COS.ta.188 9992)	(3) SEXA-LGN-S002	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12.5 Secs (12.5 Secs)		
									[==>]		[1]
	2	SEXA-LGN-S002-G130 M-FP3 (COS.sp.185 3129)	(3) SEXA-LGN-S002	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=46 10; FLASH=YES; SEGMENT=BOTH			2100 Secs (2131 Secs)		
									[==>2131.0 Secs]		[1]
Orbit Structure	Orbit 1 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Unused Orbital Visibility = 18 Occultation Home 050010001500200025003000350040004500500055006000 sec										
	Server Version: 20250929										

Proposal 17491 - SEXA-LGN-S002-G130M (08) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S002-G130M (08), failed Mon Dec 08 18:00:46 GMT 2025									
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%									
Diagnos	(SEXA-LGN-S002-G130M (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous		
	(3)	SEXA-LGN-S002 Alt Name1: J101105.28-044238.3 Alt Name2: GAIA-DR3-3779987664804296320 Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO	RA: 10 11 5.2804 (152.7720017d) Dec: -04 42 38.36 (-4.71066d) Equinox: J2000				V=20.4 F275W=18.17	Reference Frame: ICRS		
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SEXA-LGN-S002-ACQ (COS.ta.188 9992)	(3) SEXA-LGN-S002	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12.5 Secs (12.5 Secs) [==>]	[1]
	2	SEXA-LGN-S002-G130 M-FP3 (COS.sp.185 3129)	(3) SEXA-LGN-S002	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=46 10; FLASH=YES; SEGMENT=BOTH			2100 Secs (2131 Secs) [==>2131.0 Secs]	[1]
	3	SEXA-LGN-S002-G130 M-FP4 (COS.sp.185 3129)	(3) SEXA-LGN-S002	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=46 10; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs) [==>2457.0 Secs]	[2]

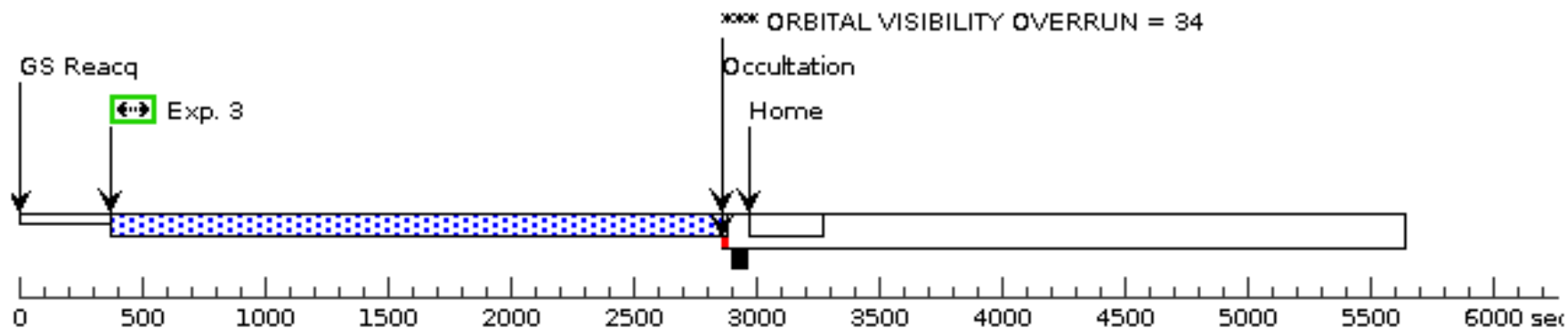
Orbit 1

Server Version: 20250929



Orbit 2

Server Version: 20250929

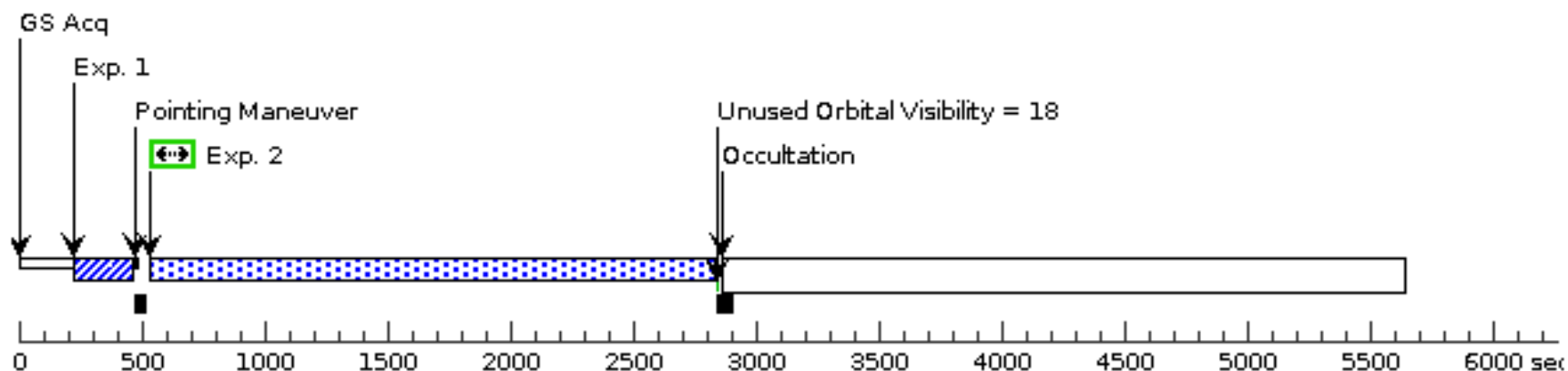


Proposal 17491 - SEXA-LGN-S002-G130M (58) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S002-G130M (58), completed Mon Dec 08 18:00:46 GMT 2025									
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%									
Diagnostics	(SEXA-LGN-S002-G130M (58)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous		
	(3)	SEXA-LGN-S002 Alt Name1: J101105.28-044238.3 Alt Name2: GAIA-DR3-3779987664804296320 Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO	RA: 10 11 5.2804 (152.7720017d) Dec: -04 42 38.36 (-4.71066d) Equinox: J2000				V=20.4 F275W=18.17	Reference Frame: ICRS		
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SEXA-LGN-S002-ACQ (COS.ta.188 9992)	(3) SEXA-LGN-S002	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12.5 Secs (12.5 Secs) [==>]	[1]
	2	SEXA-LGN-S002-G130 M-FP3 (COS.sp.185 3129)	(3) SEXA-LGN-S002	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=46 10; FLASH=YES; SEGMENT=BOTH			2100 Secs (2131 Secs) [==>2131.0 Secs]	[1]
	3	SEXA-LGN-S002-G130 M-FP4 (COS.sp.185 3129)	(3) SEXA-LGN-S002	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=46 10; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs) [==>2457.0 Secs]	[2]

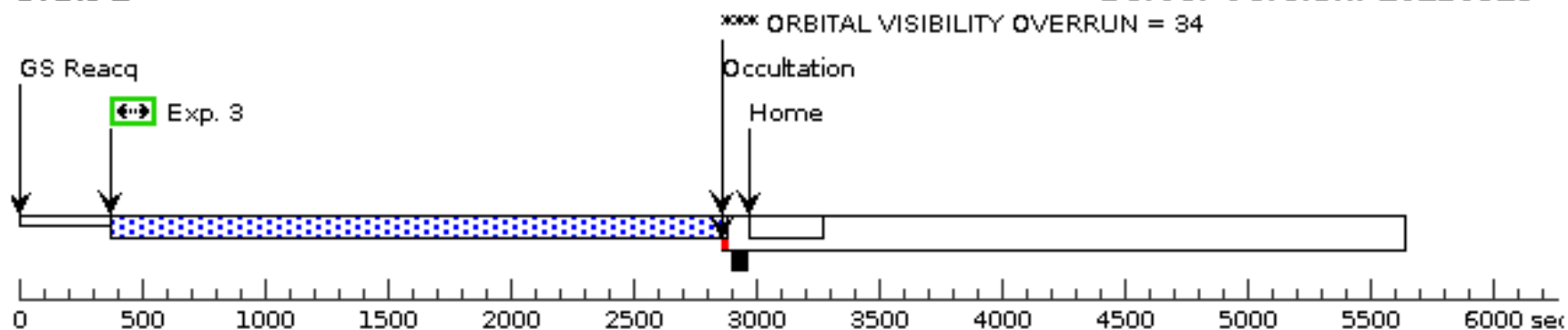
Orbit 1

Server Version: 20250929



Orbit 2

Server Version: 20250929

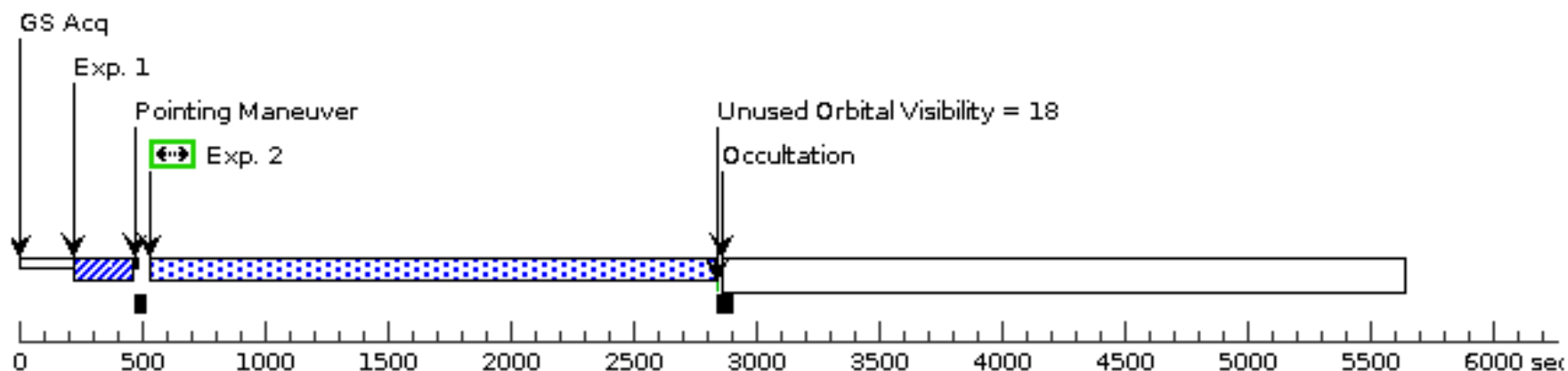


Proposal 17491 - SEXA-LGN-S002-G130M (09) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S002-G130M (09), failed Mon Dec 08 18:00:46 GMT 2025									
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%									
Diagnos	(SEXA-LGN-S002-G130M (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous		
	(3)	SEXA-LGN-S002 Alt Name1: J101105.28-044238.3 Alt Name2: GAIA-DR3-3779987664804296320 Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO	RA: 10 11 5.2804 (152.7720017d) Dec: -04 42 38.36 (-4.71066d) Equinox: J2000				V=20.4 F275W=18.17	Reference Frame: ICRS		
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SEXA-LGN-S002-ACQ (COS.ta.188 9992)	(3) SEXA-LGN-S002	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12.5 Secs (12.5 Secs) [==>]	[1]
	2	SEXA-LGN-S002-G130 M-FP3 (COS.sp.185 3129)	(3) SEXA-LGN-S002	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=46 10; FLASH=YES; SEGMENT=BOTH			2100 Secs (2131 Secs) [==>2131.0 Secs]	[1]
	3	SEXA-LGN-S002-G130 M-FP4 (COS.sp.185 3129)	(3) SEXA-LGN-S002	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=46 10; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs) [==>2457.0 Secs]	[2]

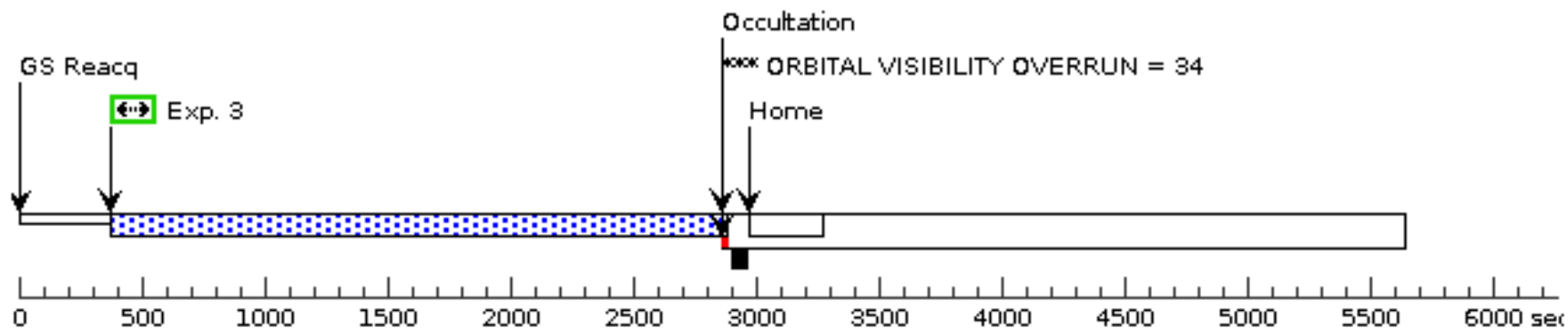
Orbit 1

Server Version: 20250929



Orbit 2

Server Version: 20250929

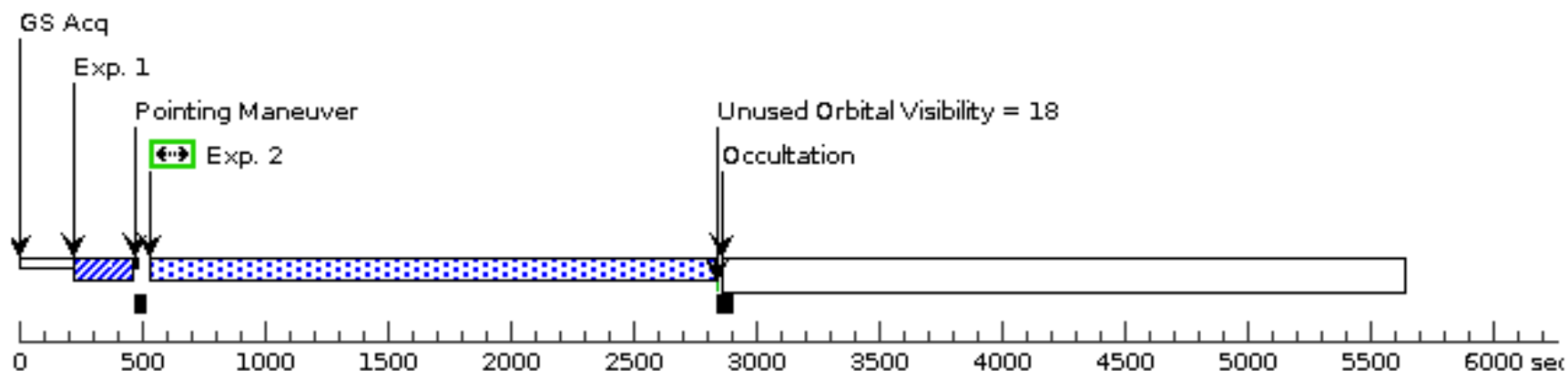


Proposal 17491 - SEXA-LGN-S002-G130M (59) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S002-G130M (59), completed										Mon Dec 08 18:00:46 GMT 2025	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: SCHED 100%											
Diagnostics	(SEXA-LGN-S002-G130M (59)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(3)	SEXA-LGN-S002	RA: 10 11 5.2804 (152.7720017d)				V=20.4		Reference Frame: ICRS			
		Alt Name1: J101105.28-044238.3	Dec: -04 42 38.36 (-4.71066d)				F275W=18.17					
		Alt Name2: GAIA-DR3-3779987664804296320	Equinox: J2000									
	Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	SEXA-LGN-S002-ACQ (COS.ta.188 9992)	(3) SEXA-LGN-S002	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12.5 Secs (12.5 Secs)			
									[==>]		[1]	
	2	SEXA-LGN-S002-G130 M-FP3 (COS.sp.185 3129)	(3) SEXA-LGN-S002	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=46 10; FLASH=YES; SEGMENT=BOTH			2100 Secs (2131 Secs)			
									[==>2131.0 Secs]		[1]	
	3	SEXA-LGN-S002-G130 M-FP4 (COS.sp.185 3129)	(3) SEXA-LGN-S002	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=46 10; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)			
								[==>2457.0 Secs]		[2]		

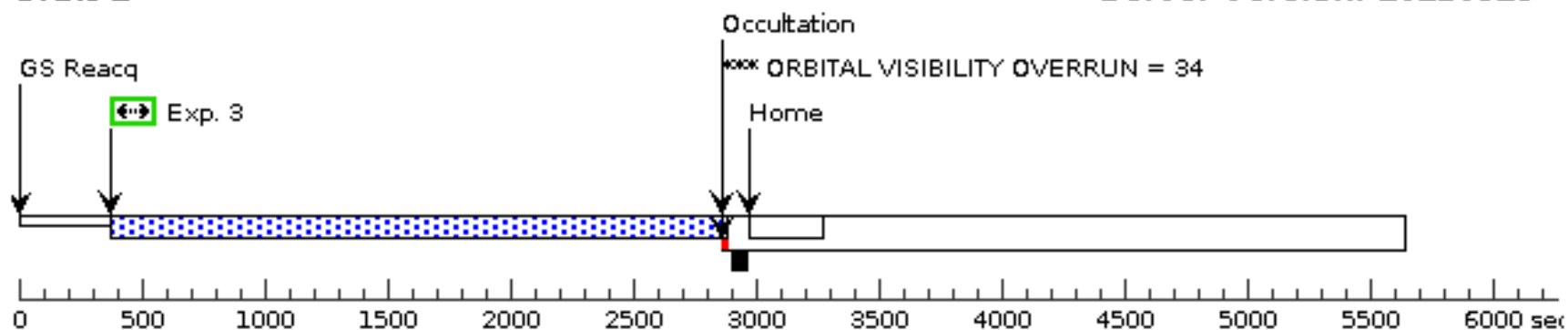
Orbit 1

Server Version: 20250929



Orbit 2

Server Version: 20250929

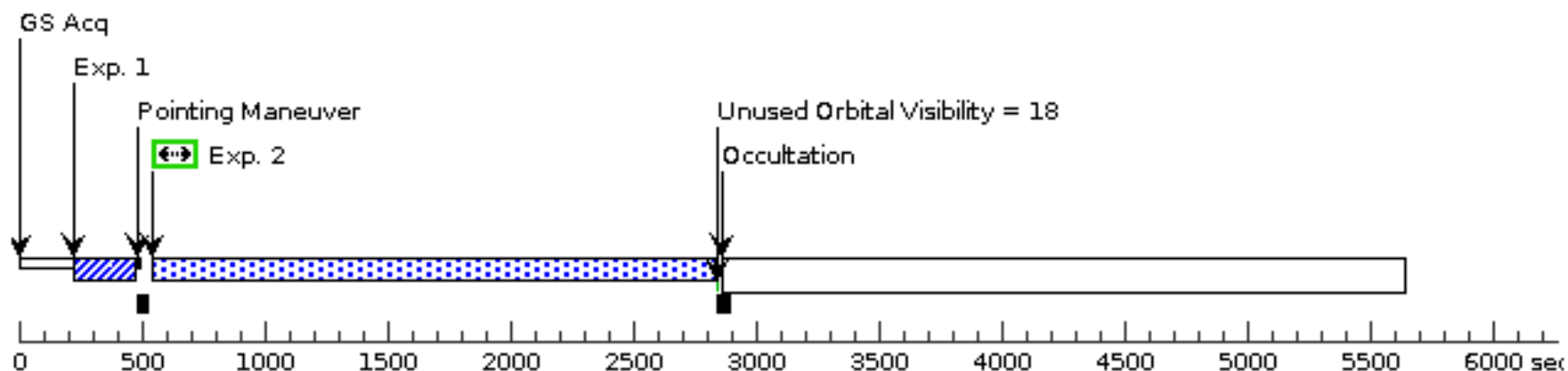


Proposal 17491 - SEXA-LGN-S004-G130M (10) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S004-G130M (10), failed									Mon Dec 08 18:00:46 GMT 2025
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: SCHED 100%									
Diagnostics	(SEXA-LGN-S004-G130M (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(SEXA-LGN-S004-G130M (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous		
	(4)	SEXA-LGN-S004	RA: 10 10 57.8827 (152.7411779d)				V=20.9	Reference Frame: ICRS		
		Alt Name1: J101057.89-044310.2	Dec: -04 43 10.28 (-4.71952d)				F275W=18.45			
		Alt Name2: SEXTANS-A-GHN-S4	Equinox: J2000							
	Comments: Category=EXT-STAR Description=[GIANT O] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SEXA-LGN-S004-ACQ (COS.ta.188 9993)	(4) SEXA-LGN-S004	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				16.2 Secs (16.2 Secs)	
									[==>]	[1]
	2	SEXA-LGN-S004-G130 M-FP3 (COS.sp.185 5032)	(4) SEXA-LGN-S004	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=48 19; FLASH=YES; SEGMENT=BOTH			2100 Secs (2123 Secs)	
									[==>2123.0 Secs]	[1]
	3	SEXA-LGN-S004-G130 M-FP3 (COS.sp.185 5032)	(4) SEXA-LGN-S004	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=48 19; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)	
									[==>2457.0 Secs]	[2]
	4	SEXA-LGN-S004-G130 M-FP4 (COS.sp.185 5032)	(4) SEXA-LGN-S004	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=48 19; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)	
								[==>2457.0 Secs]	[3]	

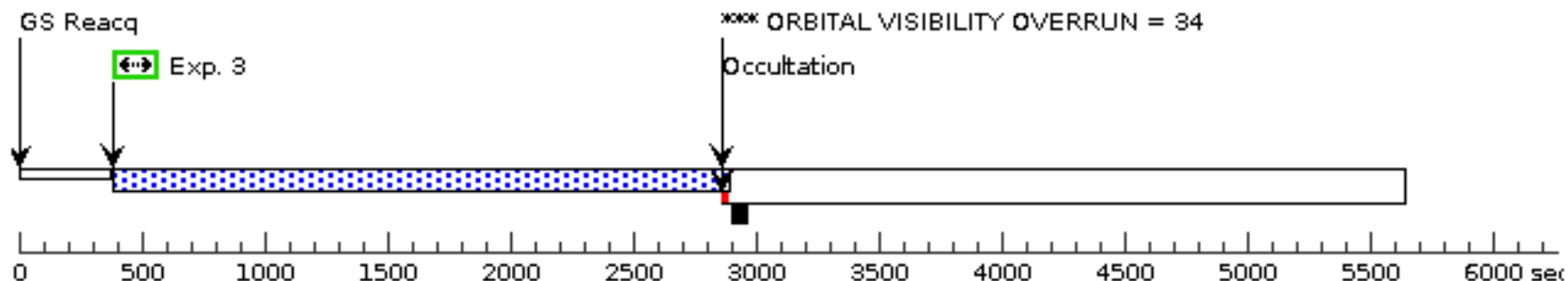
Orbit 1

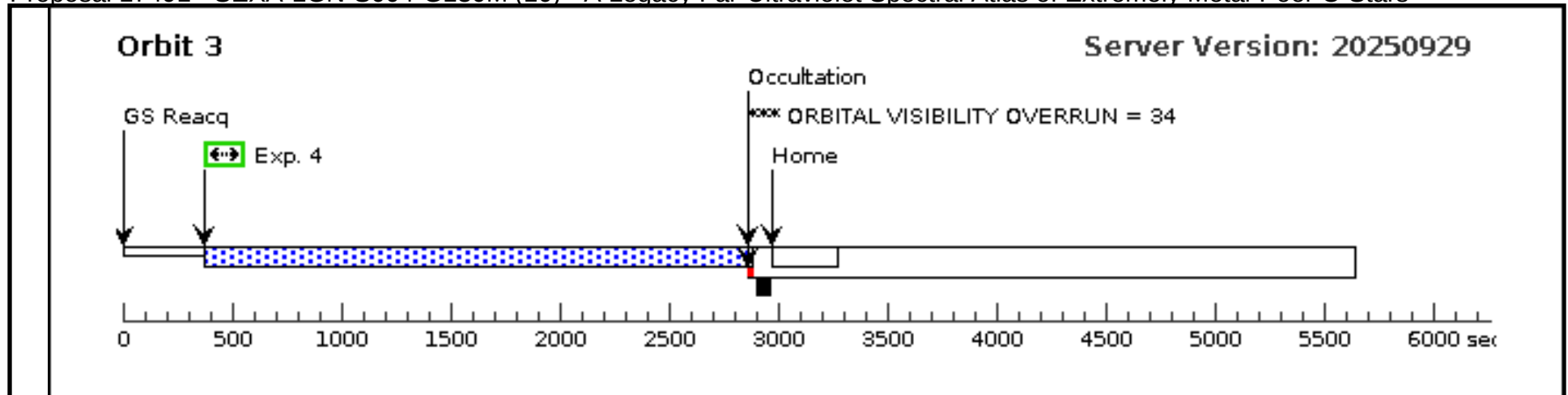
Server Version: 20250929



Orbit 2

Server Version: 20250929



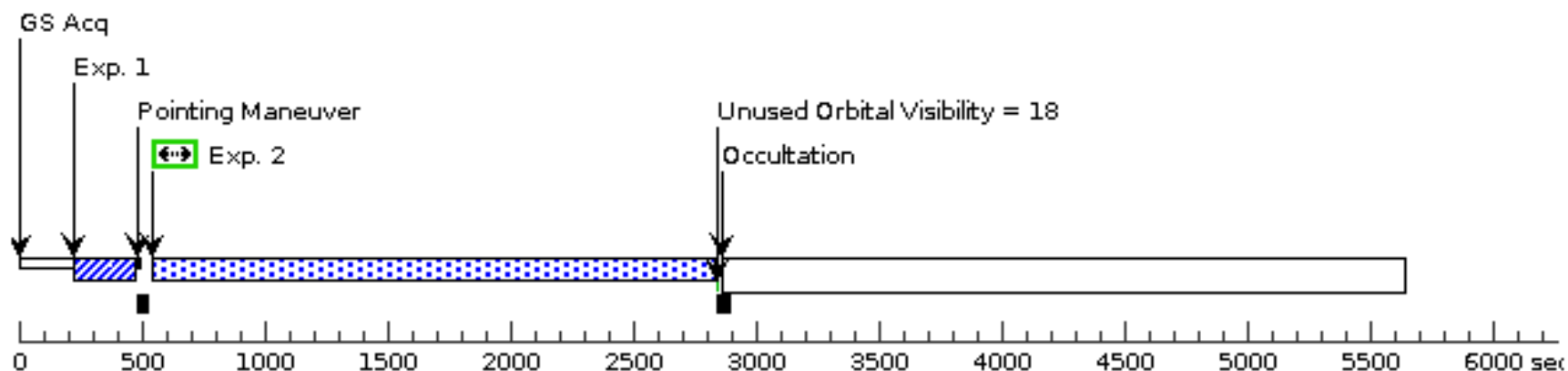


Proposal 17491 - SEXA-LGN-S004-G130M (60) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S004-G130M (60), scheduling									Mon Dec 08 18:00:46 GMT 2025
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: SCHED 100%									
Diagnostics	(SEXA-LGN-S004-G130M (60)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(SEXA-LGN-S004-G130M (60)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous		
	(4)	SEXA-LGN-S004	RA: 10 10 57.8827 (152.7411779d)				V=20.9	Reference Frame: ICRS		
		Alt Name1: J101057.89-044310.2	Dec: -04 43 10.28 (-4.71952d)				F275W=18.45			
		Alt Name2: SEXTANS-A-GHN-S4	Equinox: J2000							
	Comments: Category=EXT-STAR Description=[GIANT O] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SEXA-LGN-S004-ACQ (COS.ta.188 9993)	(4) SEXA-LGN-S004	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				16.2 Secs (16.2 Secs)	
									[==>]	[1]
	2	SEXA-LGN-S004-G130 M-FP3 (COS.sp.185 5032)	(4) SEXA-LGN-S004	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=48 19; FLASH=YES; SEGMENT=BOTH			2100 Secs (2123 Secs)	
									[==>2123.0 Secs]	[1]
	3	SEXA-LGN-S004-G130 M-FP3 (COS.sp.185 5032)	(4) SEXA-LGN-S004	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=48 19; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)	
									[==>2457.0 Secs]	[2]
	4	SEXA-LGN-S004-G130 M-FP4 (COS.sp.185 5032)	(4) SEXA-LGN-S004	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=48 19; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)	
								[==>2457.0 Secs]	[3]	

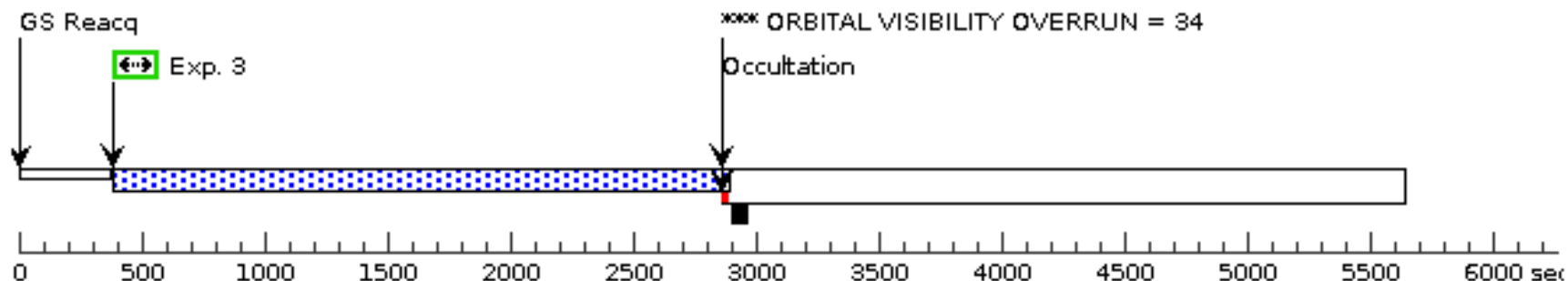
Orbit 1

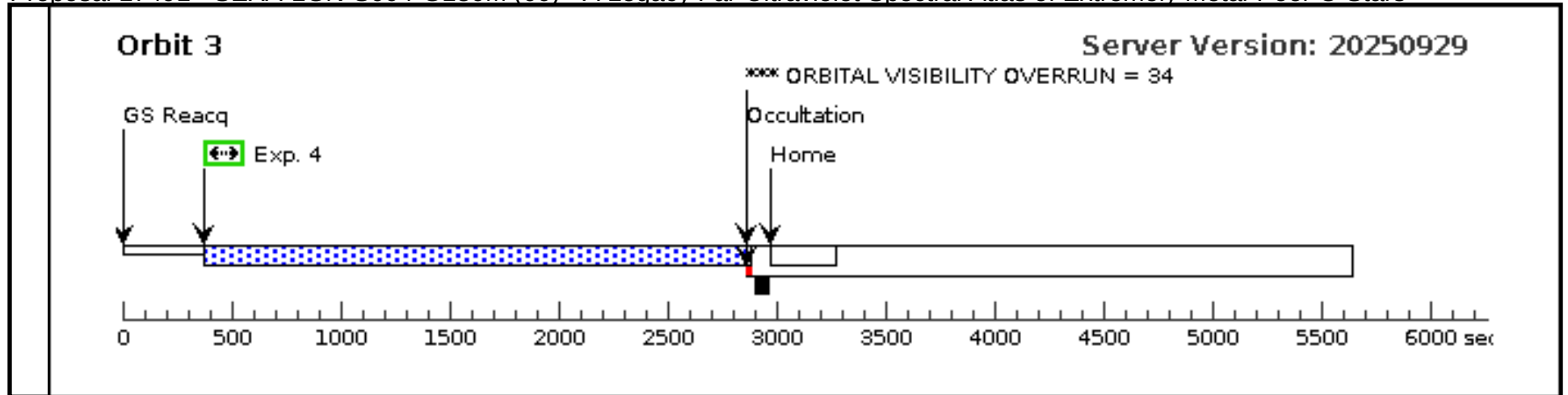
Server Version: 20250929



Orbit 2

Server Version: 20250929



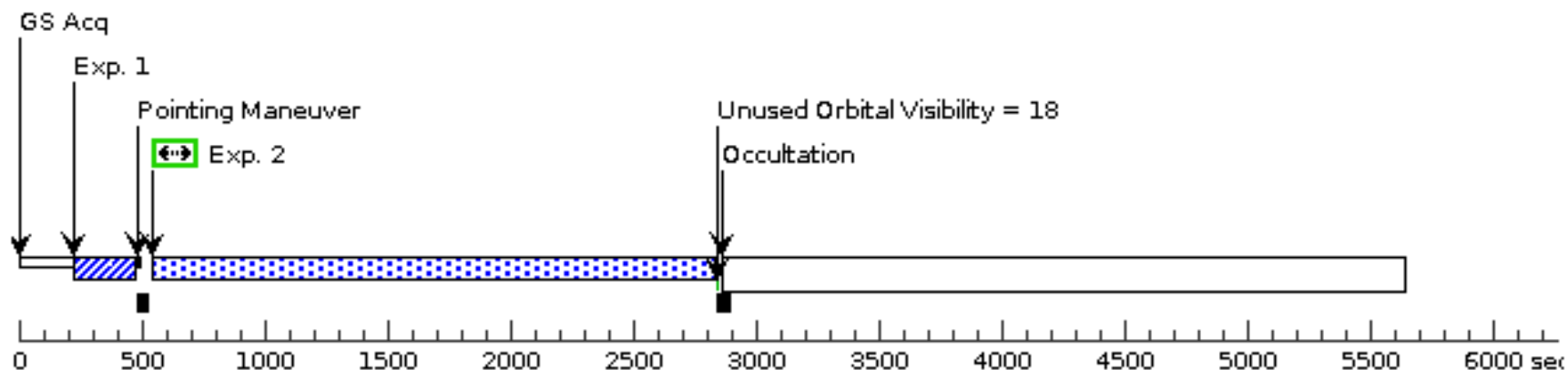


Proposal 17491 - SEXA-LGN-S004-G130M (11) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S004-G130M (11), failed									Mon Dec 08 18:00:46 GMT 2025
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: SCHED 100%									
Diagnostics	(SEXA-LGN-S004-G130M (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(SEXA-LGN-S004-G130M (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous		
	(4)	SEXA-LGN-S004	RA: 10 10 57.8827 (152.7411779d)				V=20.9	Reference Frame: ICRS		
		Alt Name1: J101057.89-044310.2	Dec: -04 43 10.28 (-4.71952d)				F275W=18.45			
		Alt Name2: SEXTANS-A-GHN-S4	Equinox: J2000							
	Comments: Category=EXT-STAR Description=[GIANT O] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SEXA-LGN-S004-ACQ (COS.ta.188 9993)	(4) SEXA-LGN-S004	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				16.2 Secs (16.2 Secs)	
									[==>]	[1]
	2	SEXA-LGN-S004-G130 M-FP3 (COS.sp.185 5032)	(4) SEXA-LGN-S004	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=48 19; FLASH=YES; SEGMENT=BOTH			2100 Secs (2123 Secs)	
									[==>2123.0 Secs]	[1]
	3	SEXA-LGN-S004-G130 M-FP4 (COS.sp.185 5032)	(4) SEXA-LGN-S004	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=48 19; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)	
									[==>2457.0 Secs]	[2]
	4	SEXA-LGN-S004-G130 M-FP4 (COS.sp.185 5032)	(4) SEXA-LGN-S004	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=48 19; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)	
								[==>2457.0 Secs]	[3]	

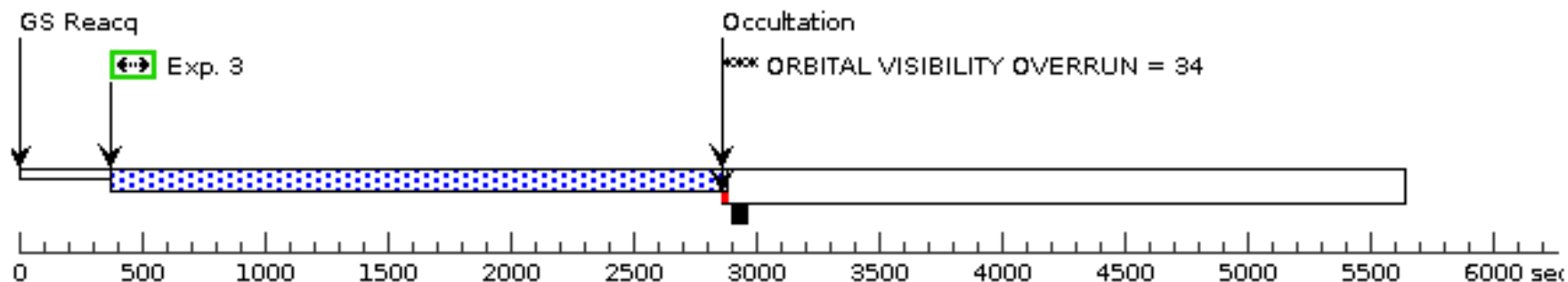
Orbit 1

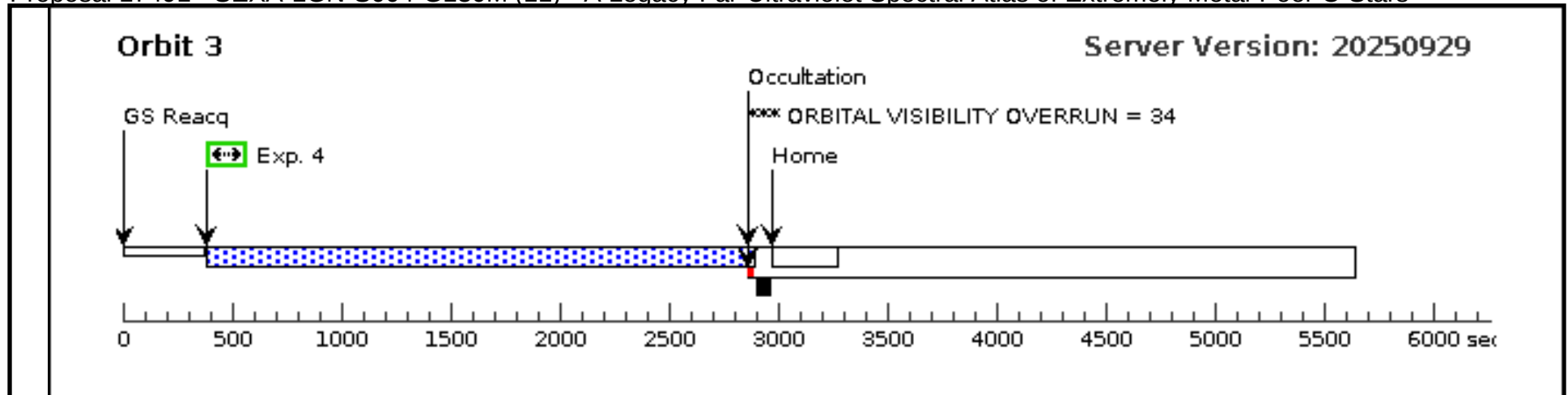
Server Version: 20250929



Orbit 2

Server Version: 20250929



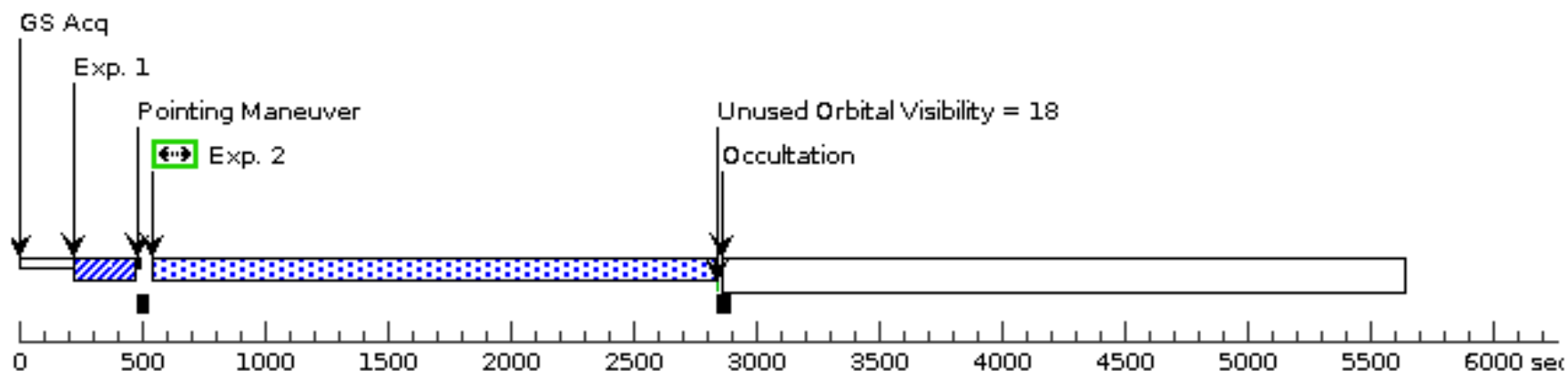


Proposal 17491 - SEXA-LGN-S004-G130M (61) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S004-G130M (61), completed										Mon Dec 08 18:00:46 GMT 2025			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: SCHED 100%													
Diagnostics	(SEXA-LGN-S004-G130M (61)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Fluxes		Miscellaneous				
	(4)	SEXA-LGN-S004	RA: 10 10 57.8827 (152.7411779d)					V=20.9		Reference Frame: ICRS				
		Alt Name1: J101057.89-044310.2	Dec: -04 43 10.28 (-4.71952d)					F275W=18.45						
		Alt Name2: SEXTANS-A-GHN-S4	Equinox: J2000											
	Comments: Category=EXT-STAR Description=[GIANT O] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1	SEXA-LGN-S004-ACQ (COS.ta.188 9993)	(4) SEXA-LGN-S004	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				16.2 Secs (16.2 Secs)				
										[==>]		[1]		
	2	SEXA-LGN-S004-G130 M-FP3 (COS.sp.185 5032)	(4) SEXA-LGN-S004	COS/FUV, TIME-TAG, PSA		G130M 1291 A	FP-POS=3; BUFFER-TIME=48 19; FLASH=YES; SEGMENT=BOTH			2100 Secs (2123 Secs)				
										[==>2123.0 Secs]		[1]		
	3	SEXA-LGN-S004-G130 M-FP4 (COS.sp.185 5032)	(4) SEXA-LGN-S004	COS/FUV, TIME-TAG, PSA		G130M 1291 A	FP-POS=4; BUFFER-TIME=48 19; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)				
									[==>2457.0 Secs]		[2]			

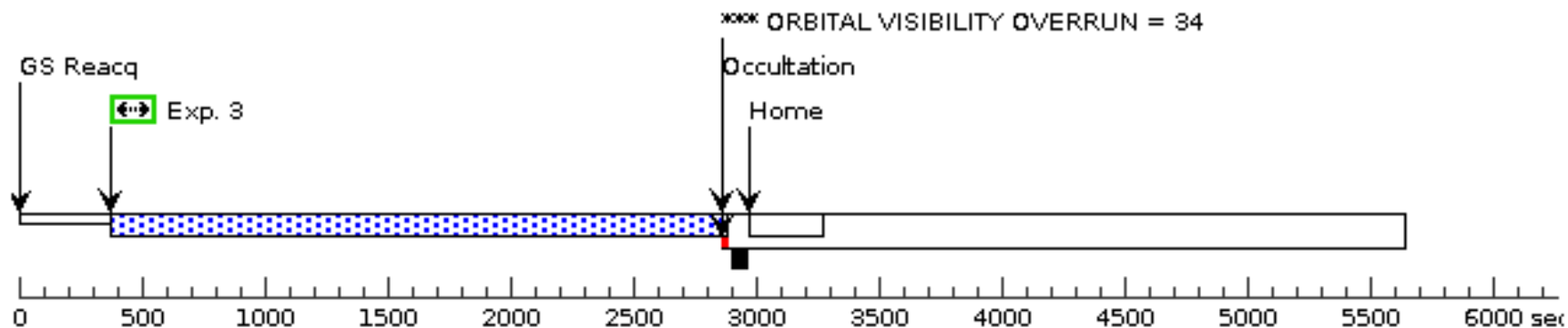
Orbit 1

Server Version: 20250929



Orbit 2

Server Version: 20250929

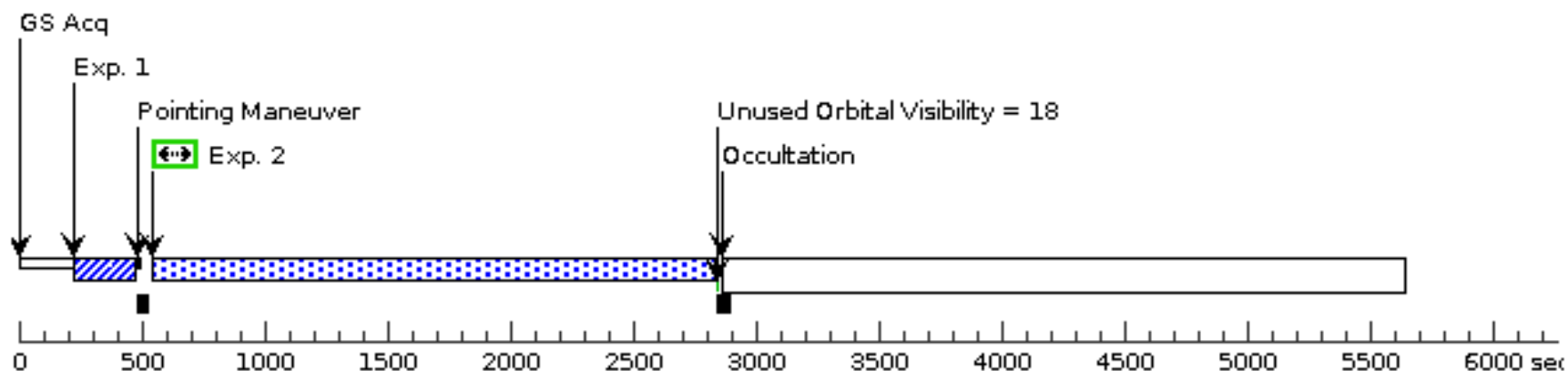


Proposal 17491 - SEXA-LGN-S004-G130M (12) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S004-G130M (12), completed										Mon Dec 08 18:00:46 GMT 2025			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: SCHED 100%													
Diagnostics	(SEXA-LGN-S004-G130M (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Fluxes		Miscellaneous				
	(4)	SEXA-LGN-S004	RA: 10 10 57.8827 (152.7411779d)					V=20.9		Reference Frame: ICRS				
		Alt Name1: J101057.89-044310.2	Dec: -04 43 10.28 (-4.71952d)					F275W=18.45						
		Alt Name2: SEXTANS-A-GHN-S4	Equinox: J2000											
	Comments: Category=EXT-STAR Description=[GIANT O] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1	SEXA-LGN-S004-ACQ (COS.ta.188 9993)	(4) SEXA-LGN-S004	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				16.2 Secs (16.2 Secs)				
										[==>]		[1]		
	2	SEXA-LGN-S004-G130 M-FP3 (COS.sp.185 5032)	(4) SEXA-LGN-S004	COS/FUV, TIME-TAG, PSA		G130M 1291 A	FP-POS=3; BUFFER-TIME=48 19; FLASH=YES; SEGMENT=BOTH			2100 Secs (2123 Secs)				
										[==>2123.0 Secs]		[1]		
	3	SEXA-LGN-S004-G130 M-FP4 (COS.sp.185 5032)	(4) SEXA-LGN-S004	COS/FUV, TIME-TAG, PSA		G130M 1291 A	FP-POS=4; BUFFER-TIME=48 19; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)				
									[==>2457.0 Secs]		[2]			

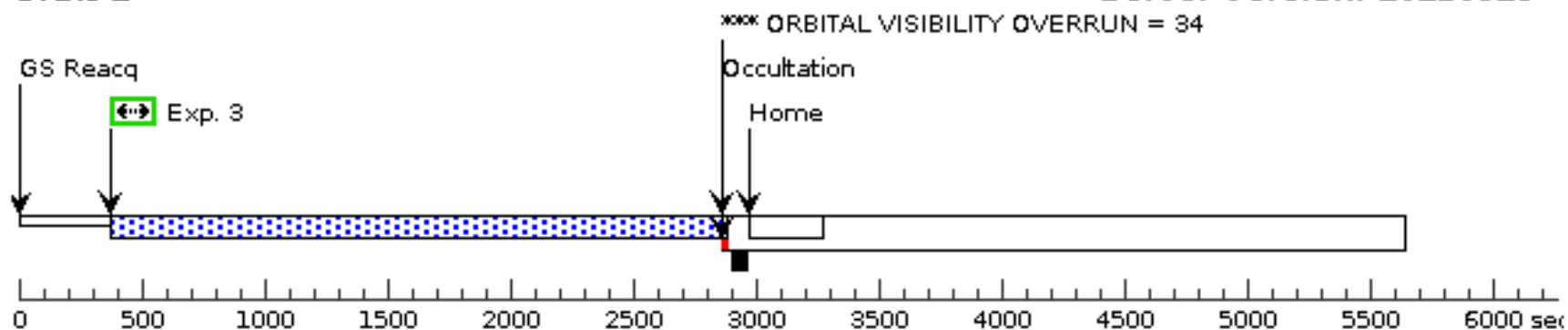
Orbit 1

Server Version: 20250929



Orbit 2

Server Version: 20250929

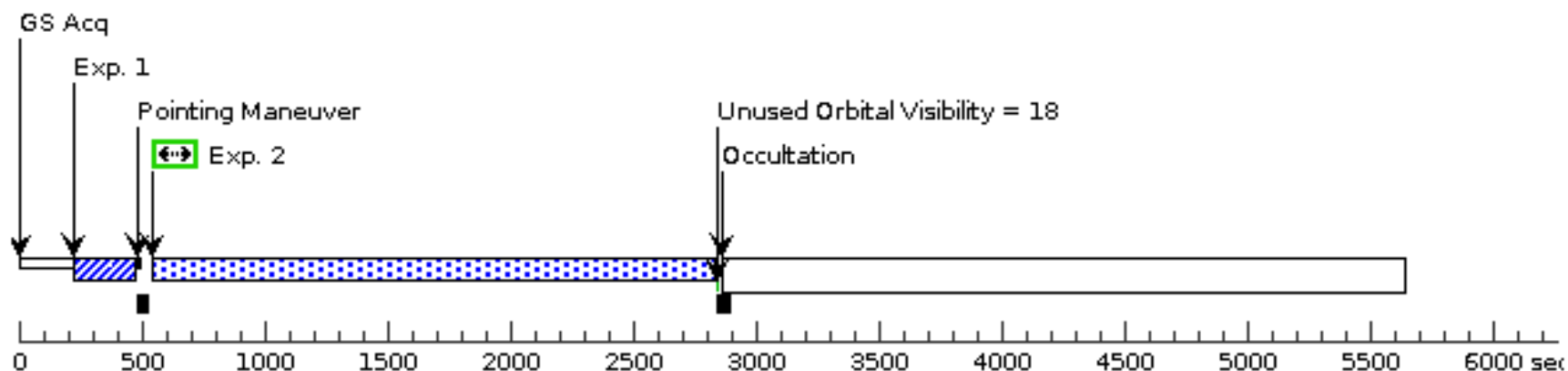


Proposal 17491 - SEXA-LGN-S004-G130M (13) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S004-G130M (13), failed Mon Dec 08 18:00:46 GMT 2025									
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%									
Diagnos	(SEXA-LGN-S004-G130M (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous		
	(4)	SEXA-LGN-S004 Alt Name1: J101057.89-044310.2 Alt Name2: SEXTANS-A-GHN-S4 Comments: Category=EXT-STAR Description=[GIANT O] Extended=NO	RA: 10 10 57.8827 (152.7411779d) Dec: -04 43 10.28 (-4.71952d) Equinox: J2000				V=20.9 F275W=18.45	Reference Frame: ICRS		
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SEXA-LGN-S004-ACQ (COS.ta.188 9993)	(4) SEXA-LGN-S004	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				16.2 Secs (16.2 Secs) [==>]	[1]
	2	SEXA-LGN-S004-G130 M-FP3 (COS.sp.185 5032)	(4) SEXA-LGN-S004	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=48 19; FLASH=YES; SEGMENT=BOTH			2100 Secs (2123 Secs) [==>2123.0 Secs]	[1]
	3	SEXA-LGN-S004-G130 M-FP4 (COS.sp.185 5032)	(4) SEXA-LGN-S004	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=48 19; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs) [==>2457.0 Secs]	[2]

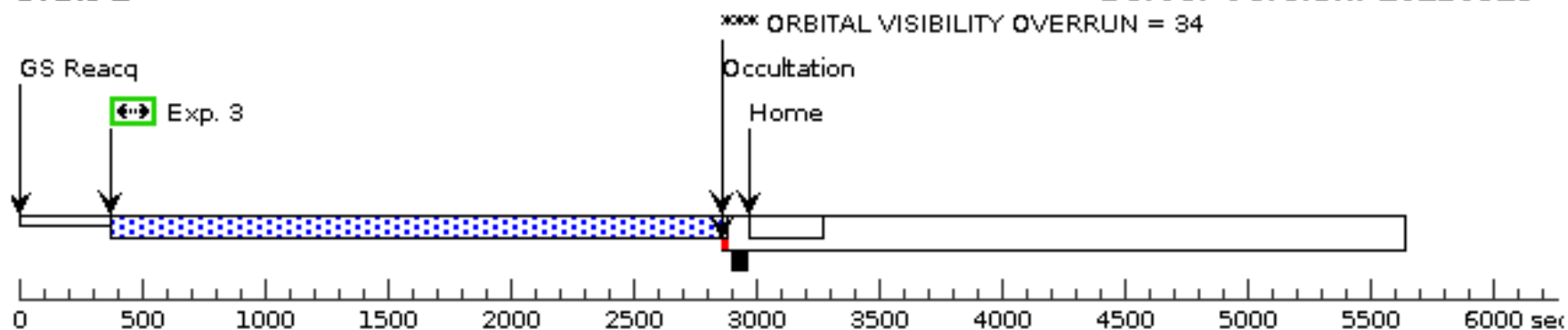
Orbit 1

Server Version: 20250929



Orbit 2

Server Version: 20250929

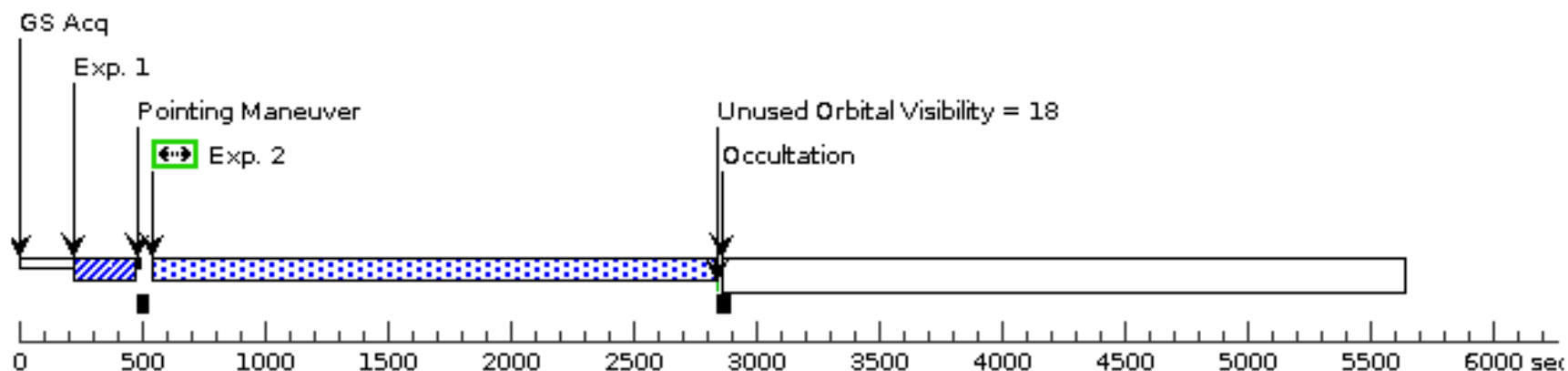


Proposal 17491 - SEXA-LGN-S004-G130M (63) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S004-G130M (63), completed										Mon Dec 08 18:00:46 GMT 2025		
	Diagnostic Status: Warning												
	Scientific Instruments: COS/FUV, COS/NUV												
	Special Requirements: SCHED 100%												
Diagnostics	(SEXA-LGN-S004-G130M (63)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN												
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous				
	(4)	SEXA-LGN-S004	RA: 10 10 57.8827 (152.7411779d)				V=20.9		Reference Frame: ICRS				
		Alt Name1: J101057.89-044310.2	Dec: -04 43 10.28 (-4.71952d)				F275W=18.45						
		Alt Name2: SEXTANS-A-GHN-S4	Equinox: J2000										
	Comments: Category=EXT-STAR Description=[GIANT O] Extended=NO												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1	SEXA-LGN-S004-ACQ (COS.ta.188 9993)	(4) SEXA-LGN-S004	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				16.2 Secs (16.2 Secs)				
									[==>]		[1]		
	2	SEXA-LGN-S004-G130 M-FP3 (COS.sp.185 5032)	(4) SEXA-LGN-S004	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=48 19; FLASH=YES; SEGMENT=BOTH			2100 Secs (2123 Secs)				
									[==>2123.0 Secs]		[1]		
	3	SEXA-LGN-S004-G130 M-FP4 (COS.sp.185 5032)	(4) SEXA-LGN-S004	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=48 19; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)				
								[==>2457.0 Secs]		[2]			

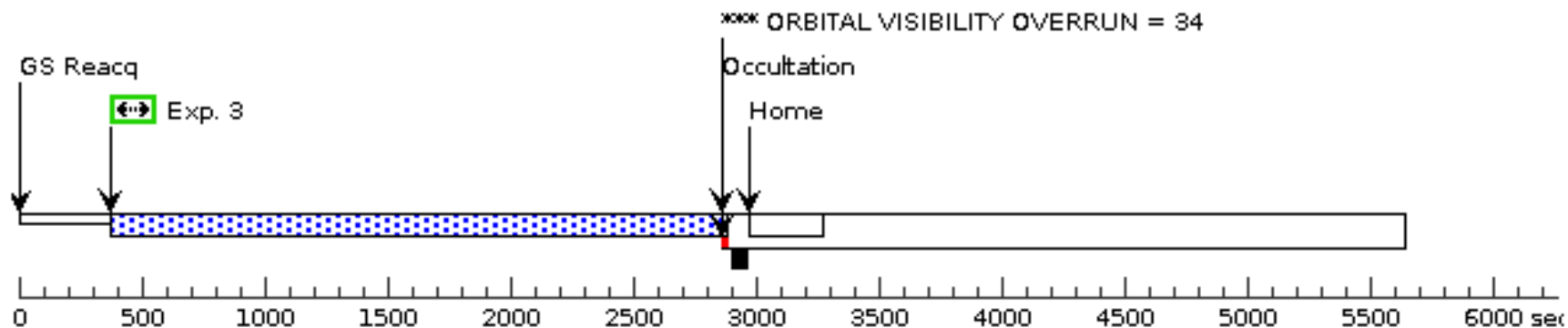
Orbit 1

Server Version: 20250929



Orbit 2

Server Version: 20250929

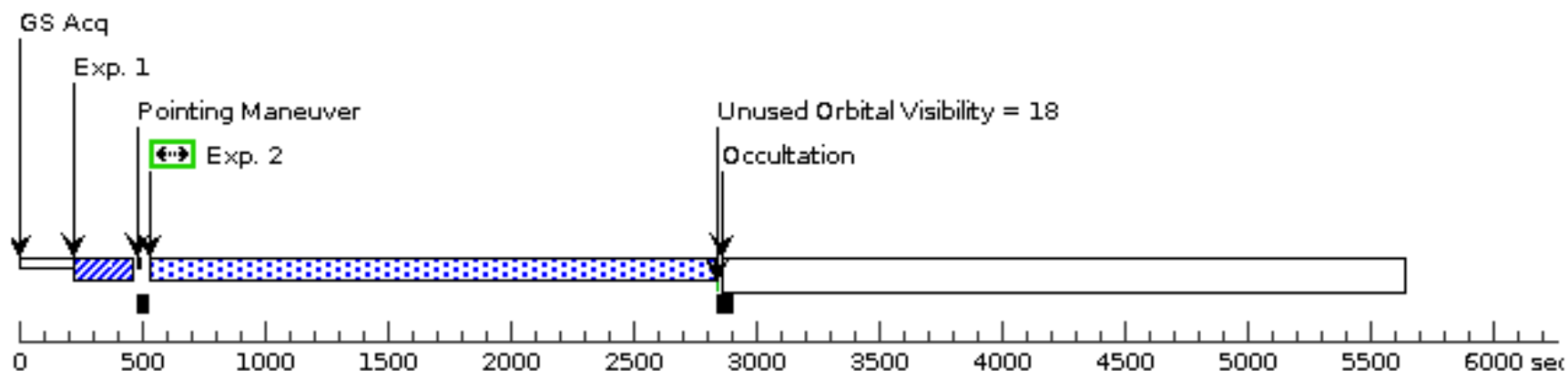


Proposal 17491 - SEXA-LGN-S007-G130M (14) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S007-G130M (14), failed								Mon Dec 08 18:00:46 GMT 2025	
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: SCHED 100%									
Diagnostics	(SEXA-LGN-S007-G130M (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(SEXA-LGN-S007-G130M (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(5)	SEXA-LGN-S007	RA: 10 11 6.4717 (152.7769654d)			V=20.5		Reference Frame: ICRS		
		Alt Name1: J101106.48-044237.1	Dec: -04 42 37.23 (-4.71034d)			F275W=18.28				
		Alt Name2: GAIA-DR3-3779987664804172800	Equinox: J2000							
	Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SEXA-LGN-S007-ACQ (COS.ta.188 9994)	(5) SEXA-LGN-S007	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				14.0 Secs (14 Secs)	
									[==>]	[1]
	2	SEXA-LGN-S007-G130 M-FP3 (COS.sp.185 5037)	(5) SEXA-LGN-S007	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=47 16; FLASH=YES; SEGMENT=BOTH			2100 Secs (2129 Secs)	
									[==>2129.0 Secs]	[1]
	3	SEXA-LGN-S007-G130 M-FP3 (COS.sp.185 5037)	(5) SEXA-LGN-S007	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=47 16; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)	
									[==>2457.0 Secs]	[2]
	4	SEXA-LGN-S007-G130 M-FP4 (COS.sp.185 5037)	(5) SEXA-LGN-S007	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=47 16; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)	
								[==>2457.0 Secs]	[3]	

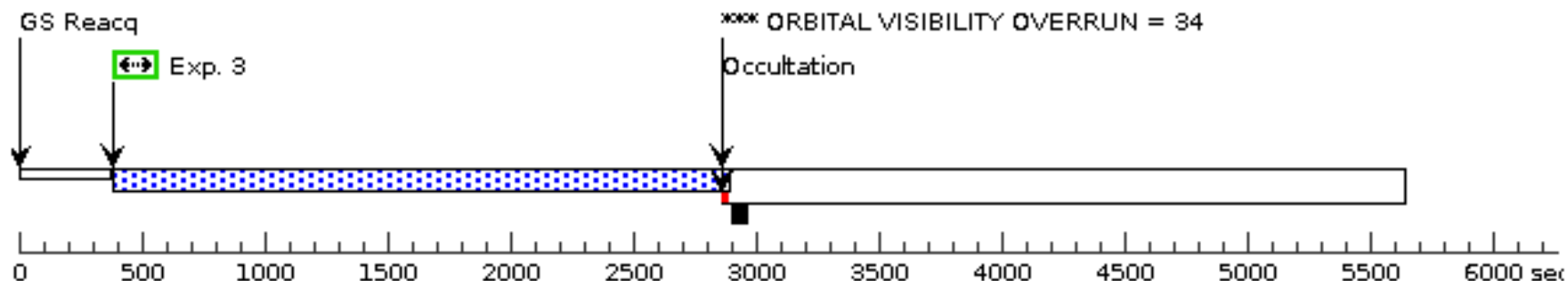
Orbit 1

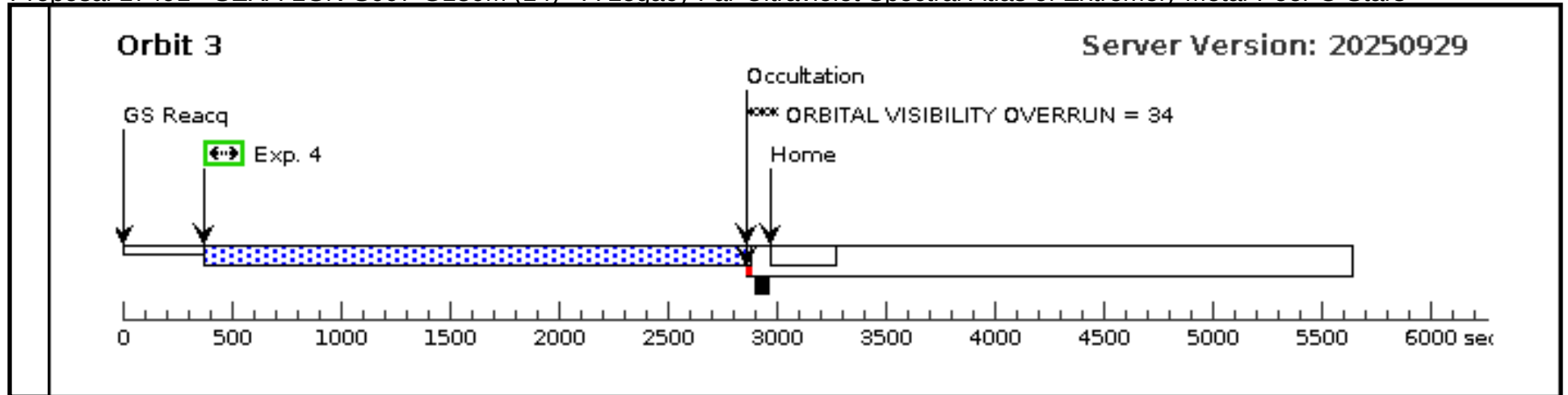
Server Version: 20250929



Orbit 2

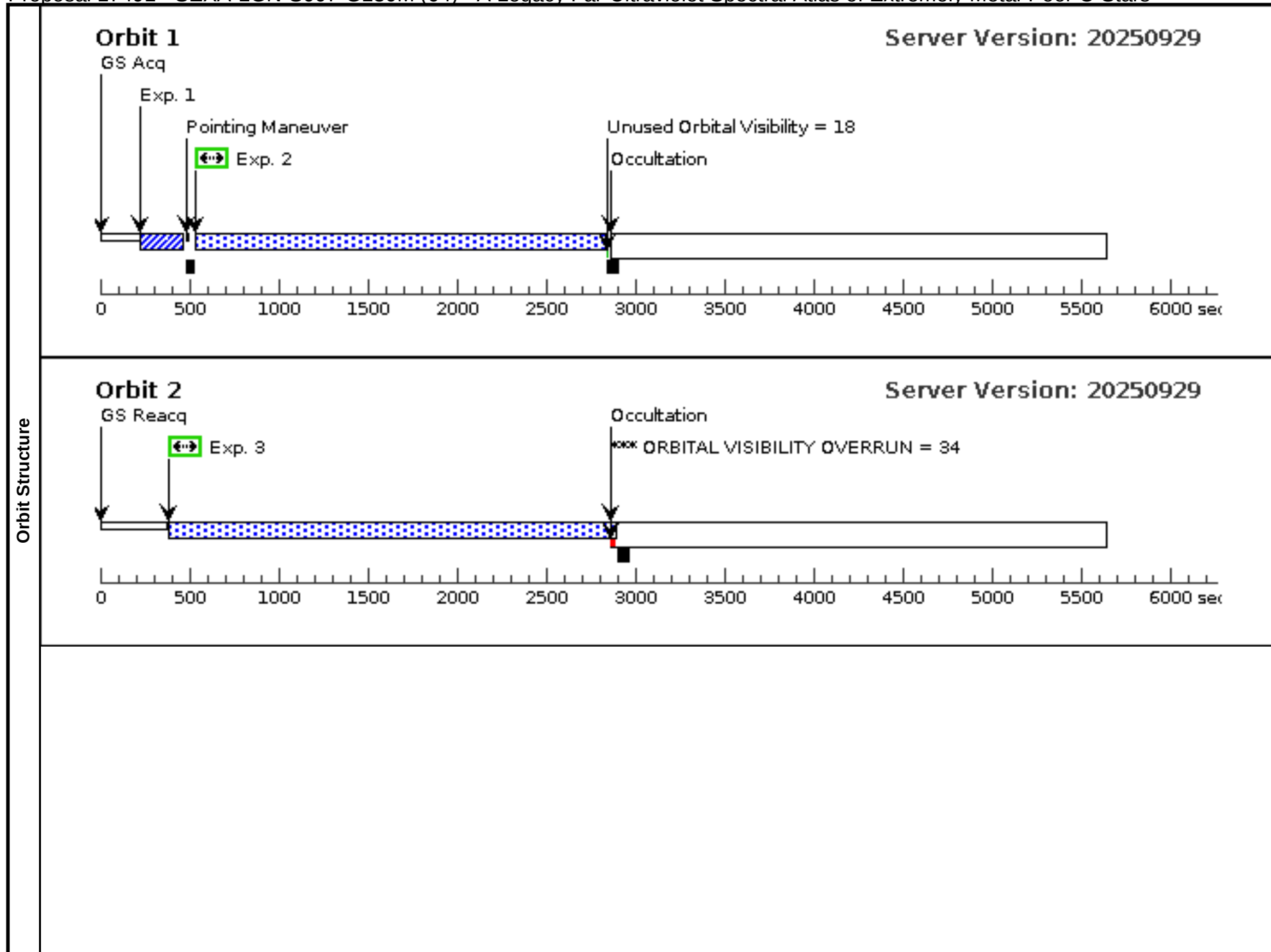
Server Version: 20250929

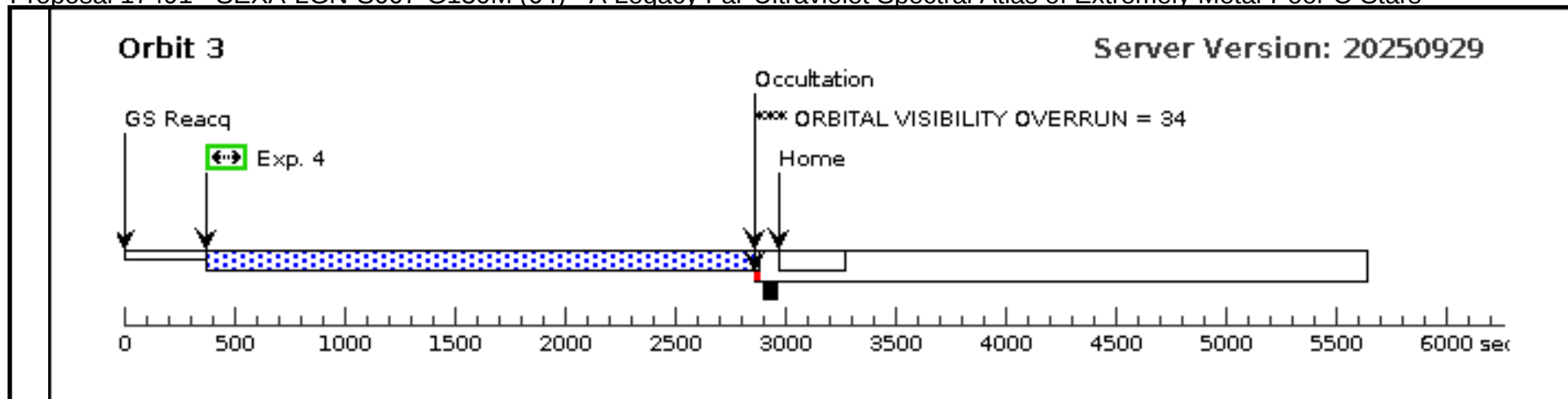




Proposal 17491 - SEXA-LGN-S007-G130M (64) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S007-G130M (64), scheduling										Mon Dec 08 18:00:46 GMT 2025	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: SCHED 100%											
Diagnostics	(SEXA-LGN-S007-G130M (64)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(SEXA-LGN-S007-G130M (64)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(5)	SEXA-LGN-S007	RA: 10 11 6.4717 (152.7769654d)					V=20.5		Reference Frame: ICRS		
		Alt Name1: J101106.48-044237.1	Dec: -04 42 37.23 (-4.71034d)					F275W=18.28				
		Alt Name2: GAIA-DR3-3779987664804172800	Equinox: J2000									
	Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	SEXA-LGN-S007-ACQ (COS.ta.1889994)	(5) SEXA-LGN-S007	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				14.0 Secs (14 Secs)		
										[==>]		[1]
	2	SEXA-LGN-S007-G130 M-FP3 (COS.sp.1855037)	(5) SEXA-LGN-S007	COS/FUV, TIME-TAG, PSA		G130M 1291 A	FP-POS=3; BUFFER-TIME=4716; FLASH=YES; SEGMENT=BOTH			2100 Secs (2129 Secs)		
										[==>2129.0 Secs]		[1]
	3	SEXA-LGN-S007-G130 M-FP3 (COS.sp.1855037)	(5) SEXA-LGN-S007	COS/FUV, TIME-TAG, PSA		G130M 1291 A	FP-POS=3; BUFFER-TIME=4716; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)		
										[==>2457.0 Secs]		[2]
4	SEXA-LGN-S007-G130 M-FP4 (COS.sp.1855037)	(5) SEXA-LGN-S007	COS/FUV, TIME-TAG, PSA		G130M 1291 A	FP-POS=4; BUFFER-TIME=4716; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)			
									[==>2457.0 Secs]		[3]	



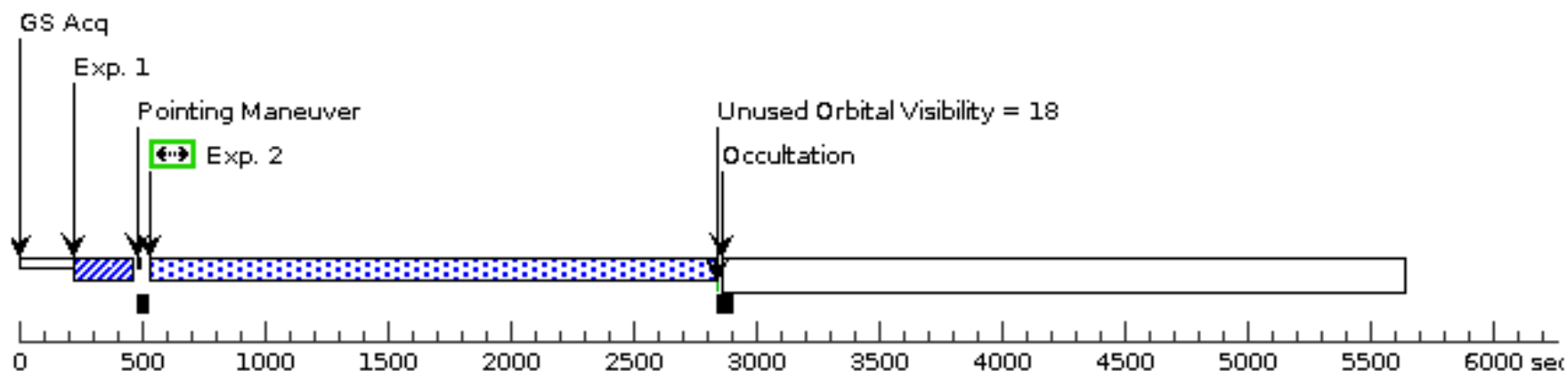


Proposal 17491 - SEXA-LGN-S007-G130M (15) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S007-G130M (15), failed Mon Dec 08 18:00:46 GMT 2025									
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%									
Diagnostics	(SEXA-LGN-S007-G130M (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(SEXA-LGN-S007-G130M (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	SEXA-LGN-S007 Alt Name1: J101106.48-044237.1 Alt Name2: GAIA-DR3-3779987664804172800 Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO	RA: 10 11 6.4717 (152.7769654d) Dec: -04 42 37.23 (-4.71034d) Equinox: J2000		V=20.5 F275W=18.28	Reference Frame: ICRS				
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SEXA-LGN-S007-ACQ 7 (COS.ta.188 9994)	(5) SEXA-LGN-S007	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				14.0 Secs (14 Secs) [==>]	[1]
	2	SEXA-LGN-S007-G130 M-FP3 (COS.sp.185 5037)	(5) SEXA-LGN-S007	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=47 16; FLASH=YES; SEGMENT=BOTH			2100 Secs (2129 Secs) [==>2129.0 Secs]	[1]
	3	SEXA-LGN-S007-G130 M-FP4 (COS.sp.185 5037)	(5) SEXA-LGN-S007	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=47 16; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs) [==>2457.0 Secs]	[2]
	4	SEXA-LGN-S007-G130 M-FP4 (COS.sp.185 5037)	(5) SEXA-LGN-S007	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=47 16; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs) [==>2457.0 Secs]	[3]

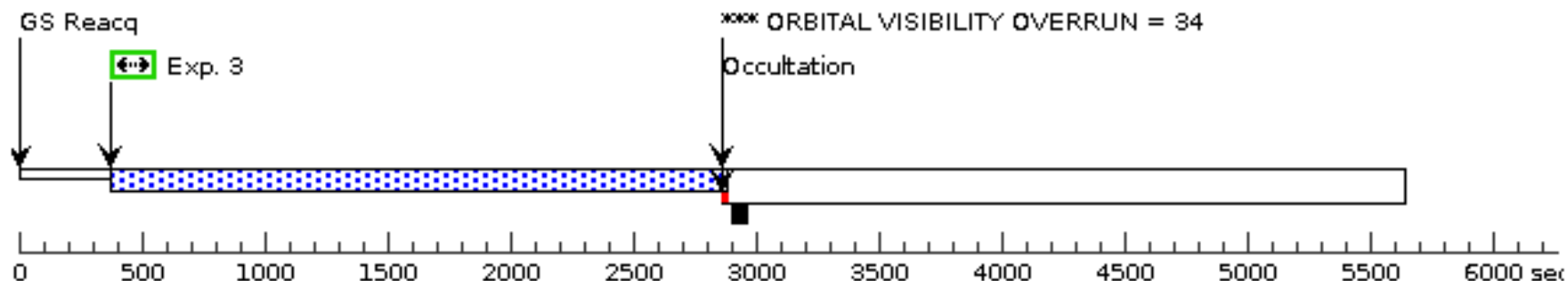
Orbit 1

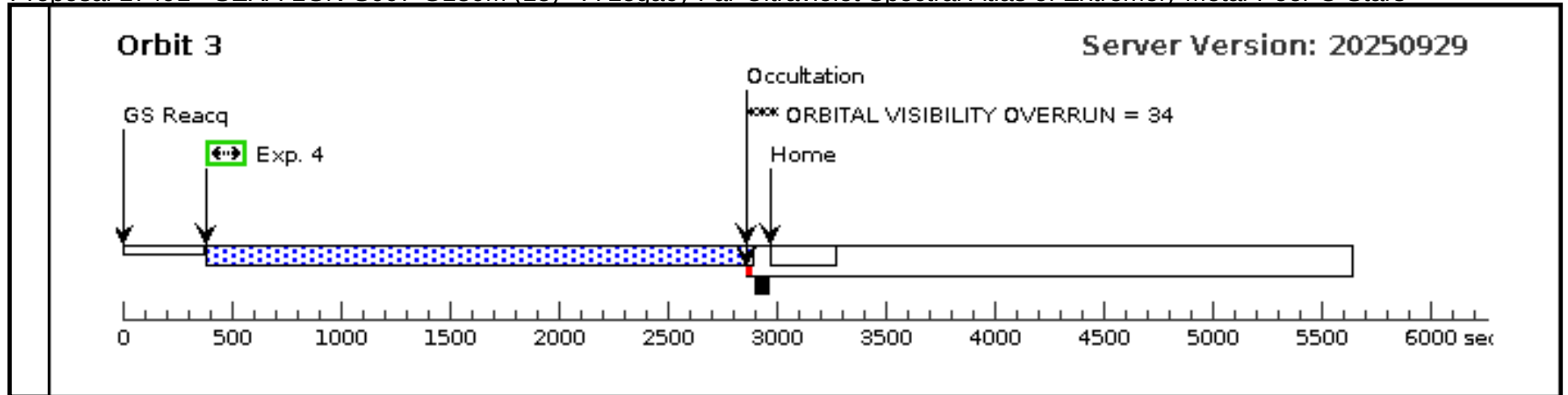
Server Version: 20250929



Orbit 2

Server Version: 20250929



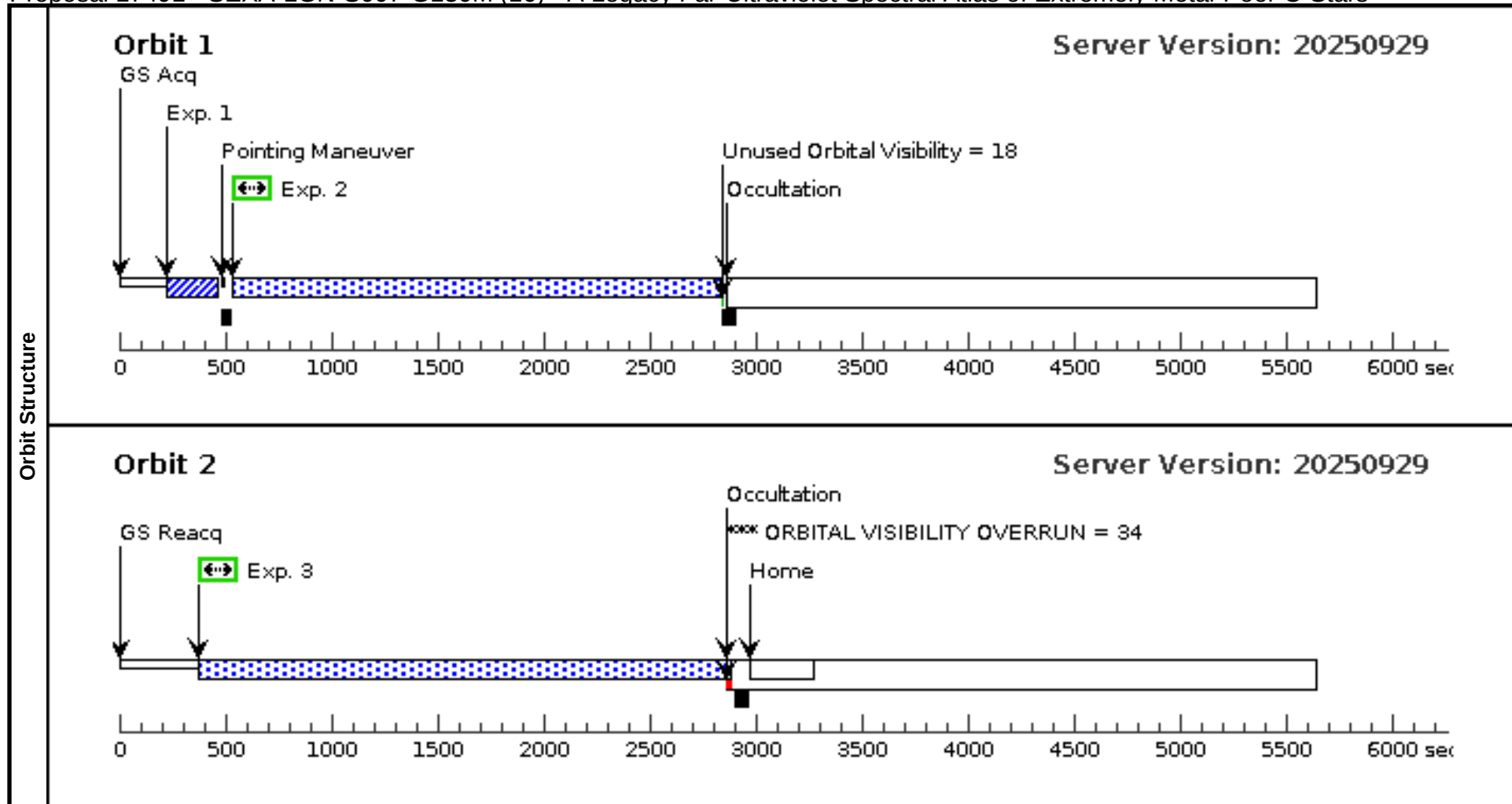


Proposal 17491 - SEXA-LGN-S007-G130M (65) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S007-G130M (65), completed										Mon Dec 08 18:00:46 GMT 2025
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: SCHED 100%										
Diagnosics	(SEXA-LGN-S007-G130M (65)) 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.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(5)	SEXA-LGN-S007	RA: 10 11 6.4717 (152.7769654d)				V=20.5		Reference Frame: ICRS		
		Alt Name1: J101106.48-044237.1	Dec: -04 42 37.23 (-4.71034d)				F275W=18.28				
		Alt Name2: GAIA-DR3-3779987664804172800	Equinox: J2000								
	Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	SEXA-LGN-S007-ACQ 7 (COS.ta.188 9994)	(5) SEXA-LGN-S007	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				14.0 Secs (14 Secs)		
									[==>]		[1]
	2	SEXA-LGN-S007-G130 M-FP4 (COS.sp.185 5037)	(5) SEXA-LGN-S007	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=47 16; FLASH=YES; SEGMENT=BOTH			2100 Secs (2129 Secs)		
									[==>2129.0 Secs]		[1]
Orbit Structure	Orbit 1 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Unused Orbital Visibility = 18 Occultation Home Server Version: 20250929										

Proposal 17491 - SEXA-LGN-S007-G130M (16) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S007-G130M (16), failed Mon Dec 08 18:00:46 GMT 2025									
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%									
Diagnostics	(SEXA-LGN-S007-G130M (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	SEXA-LGN-S007 Alt Name1: J101106.48-044237.1 Alt Name2: GAIA-DR3-3779987664804172800 Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO	RA: 10 11 6.4717 (152.7769654d) Dec: -04 42 37.23 (-4.71034d) Equinox: J2000		V=20.5 F275W=18.28	Reference Frame: ICRS				
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SEXA-LGN-S007-ACQ 7 (COS.ta.188 9994)	(5) SEXA-LGN-S007	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				14.0 Secs (14 Secs) [==>]	[1]
	2	SEXA-LGN-S007-G130 M-FP3 (COS.sp.185 5037)	(5) SEXA-LGN-S007	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=47 16; FLASH=YES; SEGMENT=BOTH			2100 Secs (2129 Secs) [==>2129.0 Secs]	[1]
	3	SEXA-LGN-S007-G130 M-FP4 (COS.sp.185 5037)	(5) SEXA-LGN-S007	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=47 16; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs) [==>2457.0 Secs]	[2]

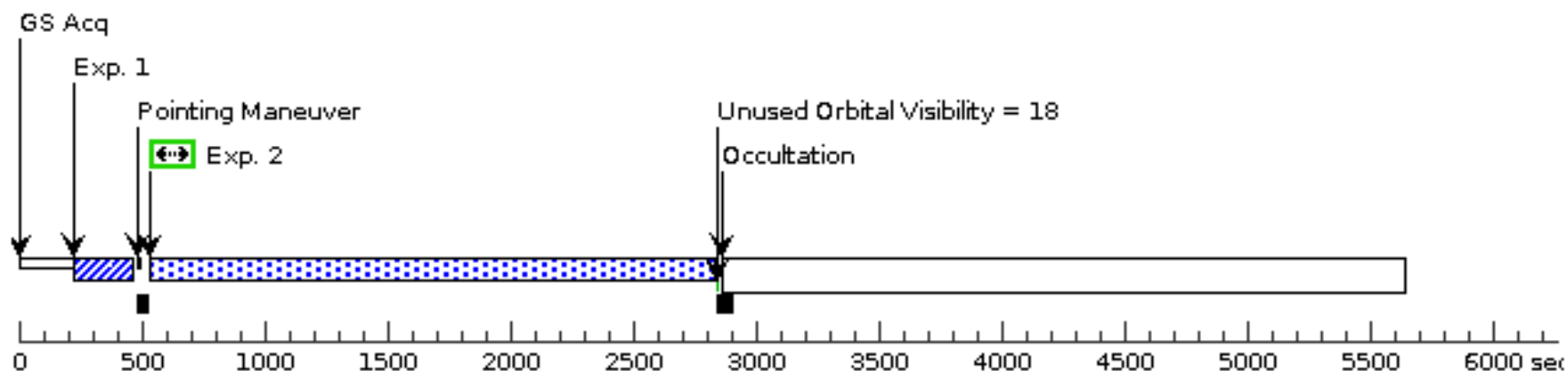


Proposal 17491 - SEXA-LGN-S007-G130M (66) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S007-G130M (66), failed										Mon Dec 08 18:00:46 GMT 2025			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: SCHED 100%													
Diagnostics	(SEXA-LGN-S007-G130M (66)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous					
	(5)	SEXA-LGN-S007	RA: 10 11 6.4717 (152.7769654d)				V=20.5		Reference Frame: ICRS					
		Alt Name1: J101106.48-044237.1	Dec: -04 42 37.23 (-4.71034d)				F275W=18.28							
		Alt Name2: GAIA-DR3-3779987664804172800	Equinox: J2000											
	Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]			Orbit		
	1	SEXA-LGN-S007-ACQ7 (COS.ta.1889994)	(5) SEXA-LGN-S007	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				14.0 Secs (14 Secs)					
									[==>]			[1]		
	2	SEXA-LGN-S007-G130M-FP3 (COS.sp.1855037)	(5) SEXA-LGN-S007	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=4716; FLASH=YES; SEGMENT=BOTH			2100 Secs (2129 Secs)					
									[==>2129.0 Secs]			[1]		
	3	SEXA-LGN-S007-G130M-FP4 (COS.sp.1855037)	(5) SEXA-LGN-S007	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=4716; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)					
								[==>2457.0 Secs]			[2]			

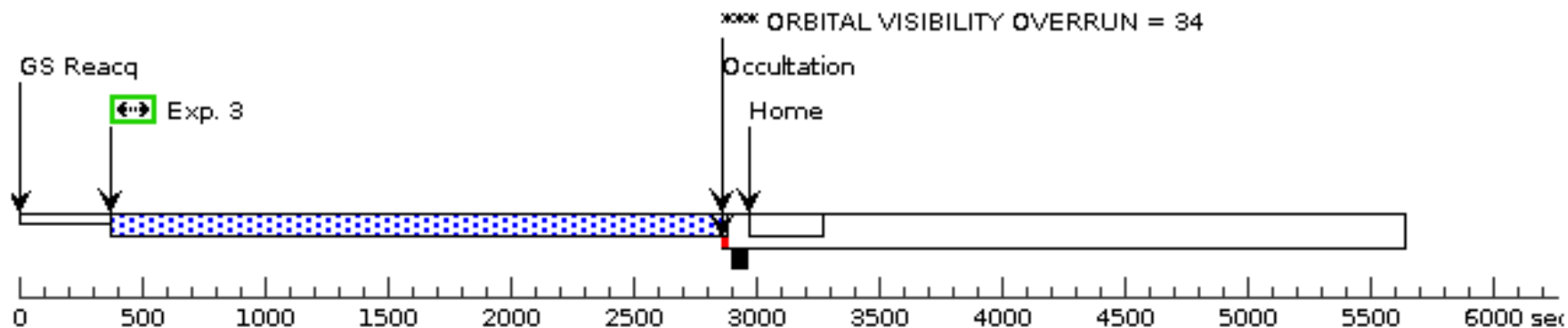
Orbit 1

Server Version: 20250929



Orbit 2

Server Version: 20250929



Proposal 17491 - SEXA-LGN-S007-G130M (96) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

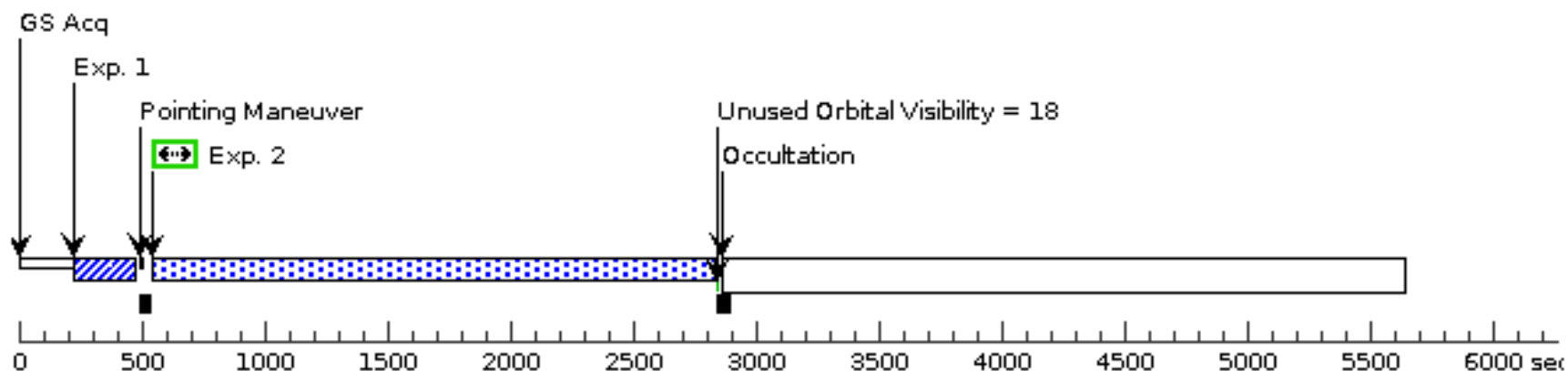
Visit	Proposal 17491, SEXA-LGN-S007-G130M (96), completed										Mon Dec 08 18:00:46 GMT 2025
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: SCHED 100%										
Diagnosics	(SEXA-LGN-S007-G130M (96)) Warning (Form): For the best data 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.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(5)	SEXA-LGN-S007	RA: 10 11 6.4717 (152.7769654d)				V=20.5		Reference Frame: ICRS		
		Alt Name1: J101106.48-044237.1	Dec: -04 42 37.23 (-4.71034d)				F275W=18.28				
		Alt Name2: GAIA-DR3-3779987664804172800	Equinox: J2000								
	Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	SEXA-LGN-S007-ACQ 7 (COS.ta.188 9994)	(5) SEXA-LGN-S007	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				14.0 Secs (14 Secs)		
									[==>]		[1]
	2	SEXA-LGN-S007-G130 M-FP3 (COS.sp.185 5037)	(5) SEXA-LGN-S007	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=47 16; FLASH=YES; SEGMENT=BOTH			2100 Secs (2129 Secs)		
									[==>2129.0 Secs]		[1]
Orbit Structure	Orbit 1 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Unused Orbital Visibility = 18 Occultation Home										
	Server Version: 20250929										

Proposal 17491 - SEXA-LGN-S016-G130M (17) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S016-G130M (17), failed Mon Dec 08 18:00:46 GMT 2025									
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%									
Diagnostics	(SEXA-LGN-S016-G130M (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(SEXA-LGN-S016-G130M (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(6)	SEXA-LGN-S016 Alt Name1: J101056.28-044253.0 Alt Name2: GAIA-DR3-3779988077121167616 Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO	RA: 10 10 56.2672 (152.7344467d) Dec: -04 42 53.14 (-4.71476d) Equinox: J2000			V=20.6 F275W=18.53	Reference Frame: ICRS			
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SEXA-LGN-S016-ACQ 6 (COS.ta.188 9995)	(6) SEXA-LGN-S016	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				18.7 Secs (18.7 Secs) [==>]	[1]
	2	SEXA-LGN-S016-G130 M-FP3 (COS.sp.185 5090)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=50 25; FLASH=YES; SEGMENT=BOTH			2100 Secs (2119 Secs) [==>2119.0 Secs]	[1]
	3	SEXA-LGN-S016-G130 M-FP3 (COS.sp.185 5090)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=50 25; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs) [==>2457.0 Secs]	[2]
	4	SEXA-LGN-S016-G130 M-FP4 (COS.sp.185 5090)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=50 25; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs) [==>2457.0 Secs]	[3]

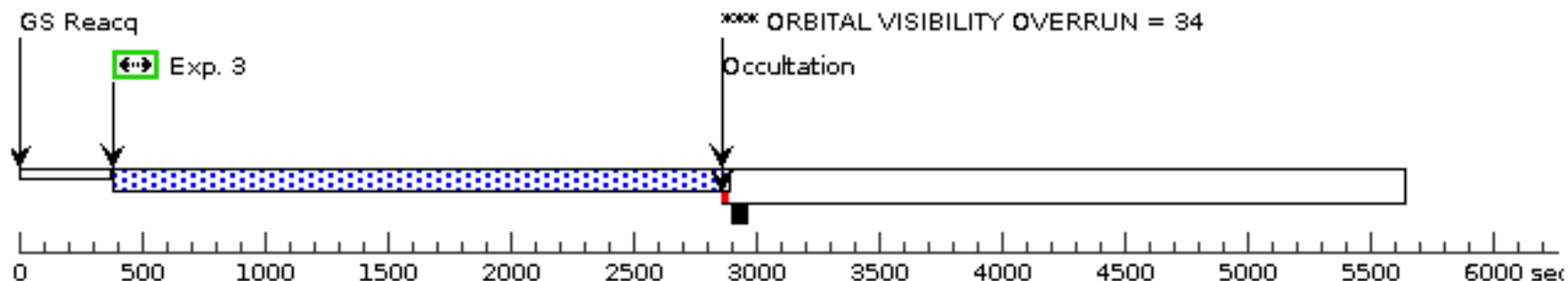
Orbit 1

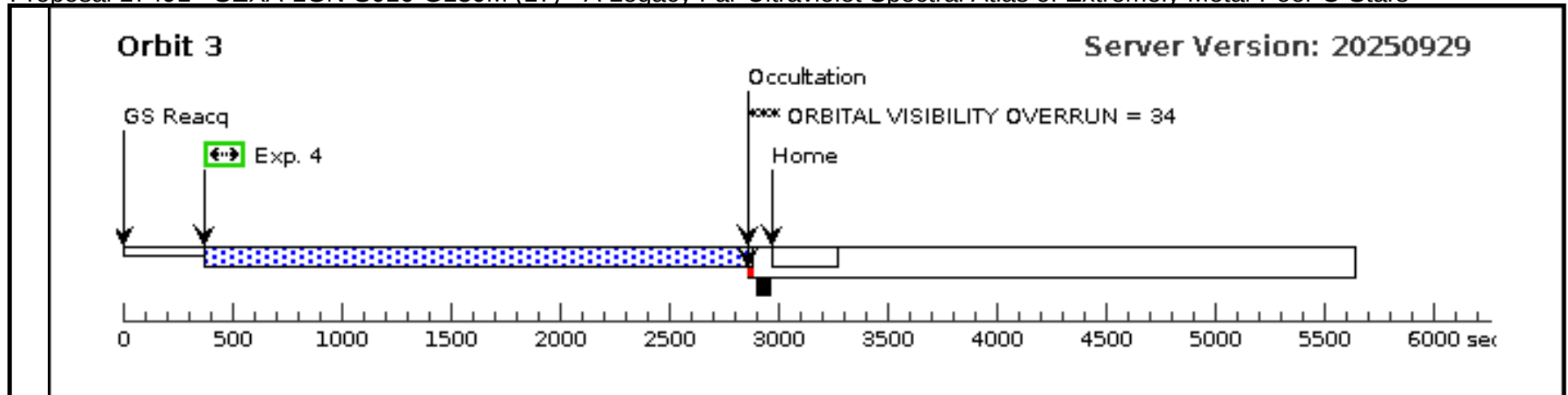
Server Version: 20250929



Orbit 2

Server Version: 20250929



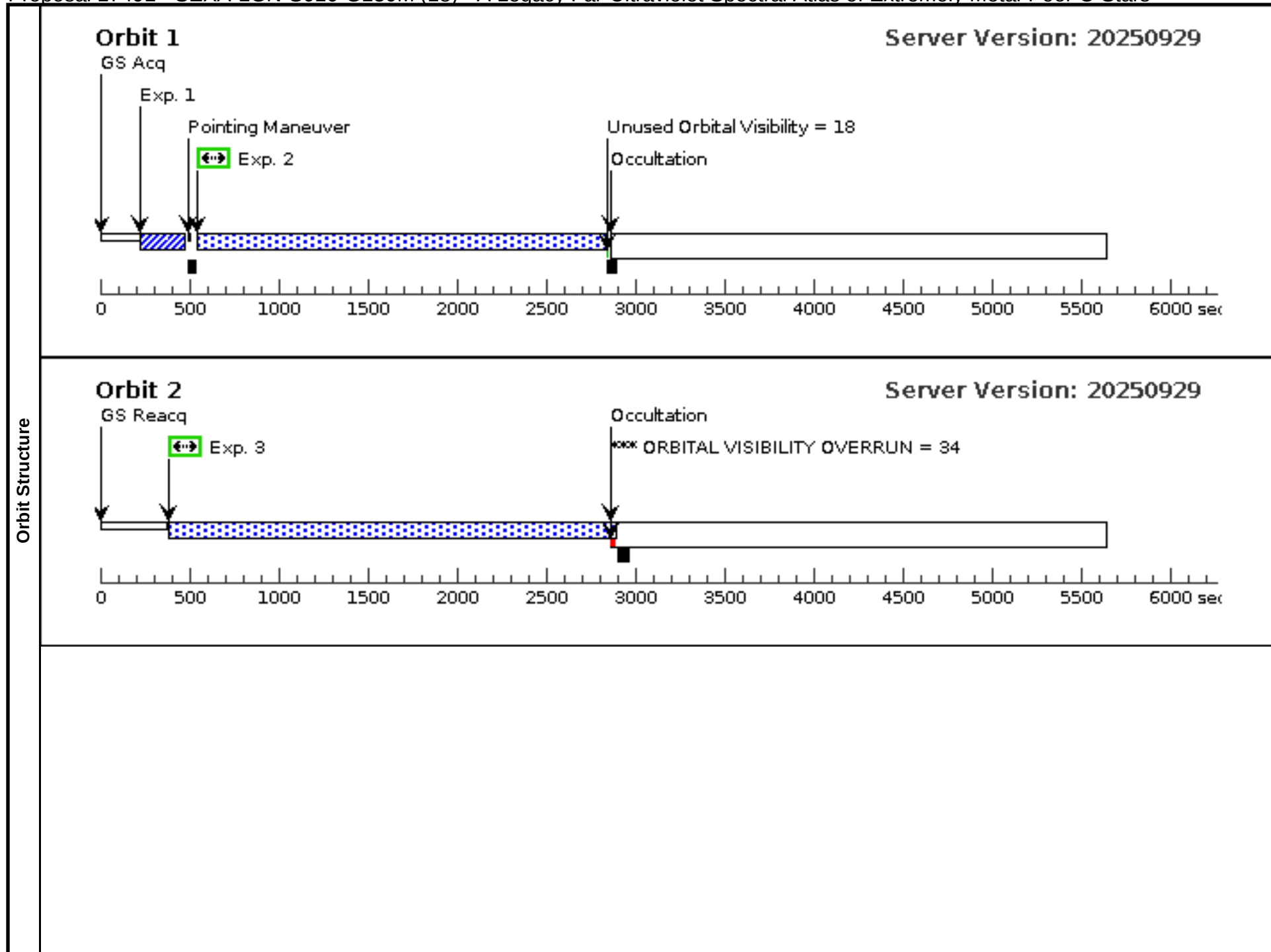


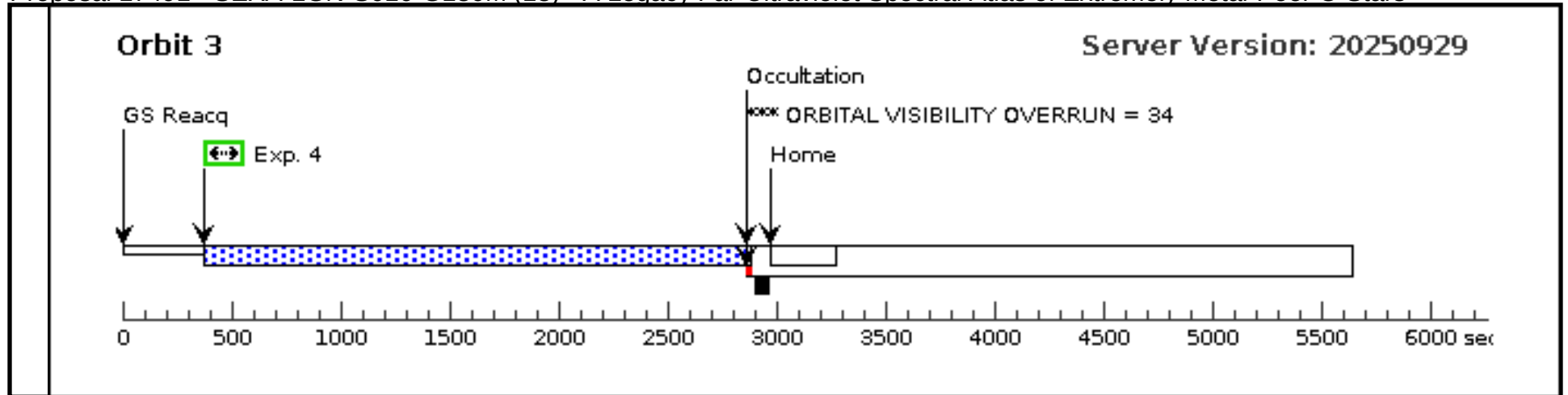
Proposal 17491 - SEXA-LGN-S016-G130M (67) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S016-G130M (67), completed										Mon Dec 08 18:00:46 GMT 2025
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: SCHED 100%										
Diagnostics	(SEXA-LGN-S016-G130M (67)) 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.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(6)	SEXA-LGN-S016	RA: 10 10 56.2672 (152.7344467d)				V=20.6		Reference Frame: ICRS		
		Alt Name1: J101056.28-044253.0	Dec: -04 42 53.14 (-4.71476d)				F275W=18.53				
		Alt Name2: GAIA-DR3-3779988077121167616	Equinox: J2000								
	Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	SEXA-LGN-S016-ACQ 6 (COS.ta.188 9995)	(6) SEXA-LGN-S016	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				18.7 Secs (18.7 Secs)		
									[==>]		[1]
	2	SEXA-LGN-S016-G130 M-FP3 (COS.sp.185 5090)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=50 25; FLASH=YES; SEGMENT=BOTH			2100 Secs (2119 Secs)		
									[==>2119.0 Secs]		[1]
Orbit Structure	Orbit 1 Server Version: 20250929 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Unused Orbital Visibility = 18 Occultation Home 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec										

Proposal 17491 - SEXA-LGN-S016-G130M (18) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S016-G130M (18), completed										Mon Dec 08 18:00:46 GMT 2025	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: SCHED 100%											
Diagnostics	(SEXA-LGN-S016-G130M (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(SEXA-LGN-S016-G130M (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(6)	SEXA-LGN-S016	RA: 10 10 56.2672 (152.7344467d)				V=20.6		Reference Frame: ICRS			
		Alt Name1: J101056.28-044253.0	Dec: -04 42 53.14 (-4.71476d)				F275W=18.53					
		Alt Name2: GAIA-DR3-3779988077121167616	Equinox: J2000									
	Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	SEXA-LGN-S016-ACQ 6 (COS.ta.188 9995)	(6) SEXA-LGN-S016	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				18.7 Secs (18.7 Secs)			
									[==>]		[1]	
	2	SEXA-LGN-S016-G130 M-FP3 (COS.sp.185 5090)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=50 25; FLASH=YES; SEGMENT=BOTH			2100 Secs (2119 Secs)			
									[==>2119.0 Secs]		[1]	
	3	SEXA-LGN-S016-G130 M-FP3 (COS.sp.185 5090)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=50 25; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)			
									[==>2457.0 Secs]		[2]	
4	SEXA-LGN-S016-G130 M-FP4 (COS.sp.185 5090)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=50 25; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)				
									[==>2457.0 Secs]		[3]	



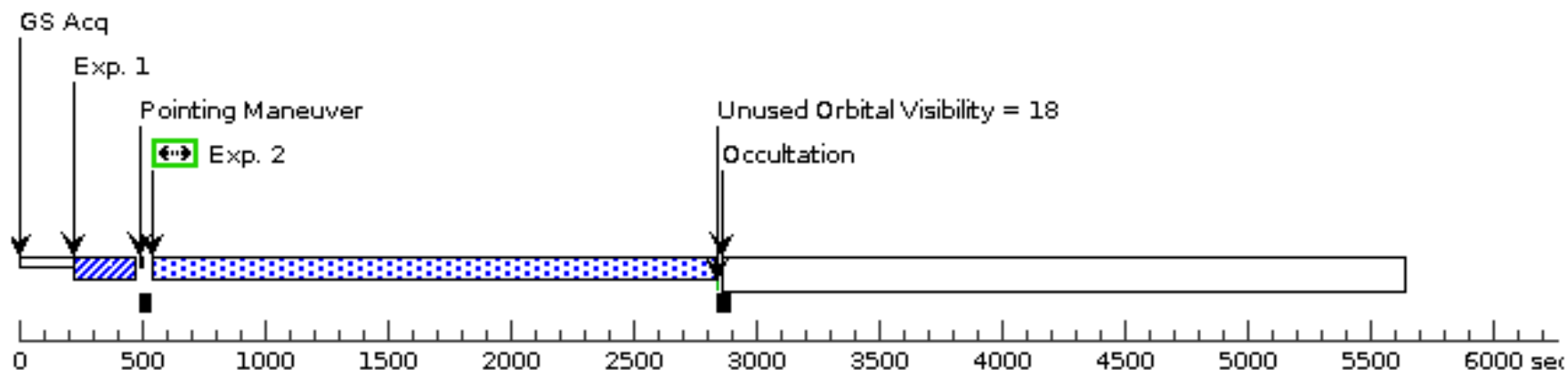


Proposal 17491 - SEXA-LGN-S016-G130M (19) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S016-G130M (19), failed										Mon Dec 08 18:00:46 GMT 2025	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: SCHED 100%											
Diagnostics	(SEXA-LGN-S016-G130M (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(SEXA-LGN-S016-G130M (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(6)	SEXA-LGN-S016	RA: 10 10 56.2672 (152.7344467d)				V=20.6		Reference Frame: ICRS			
		Alt Name1: J101056.28-044253.0	Dec: -04 42 53.14 (-4.71476d)				F275W=18.53					
		Alt Name2: GAIA-DR3-3779988077121167616	Equinox: J2000									
	Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	SEXA-LGN-S016-ACQ 6 (COS.ta.188 9995)	(6) SEXA-LGN-S016	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				18.7 Secs (18.7 Secs)			
									[==>]		[1]	
	2	SEXA-LGN-S016-G130 M-FP3 (COS.sp.185 5090)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=50 25; FLASH=YES; SEGMENT=BOTH			2100 Secs (2119 Secs)			
									[==>2119.0 Secs]		[1]	
	3	SEXA-LGN-S016-G130 M-FP4 (COS.sp.185 5090)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=50 25; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)			
									[==>2457.0 Secs]		[2]	
4	SEXA-LGN-S016-G130 M-FP4 (COS.sp.185 5090)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=50 25; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)				
									[==>2457.0 Secs]		[3]	

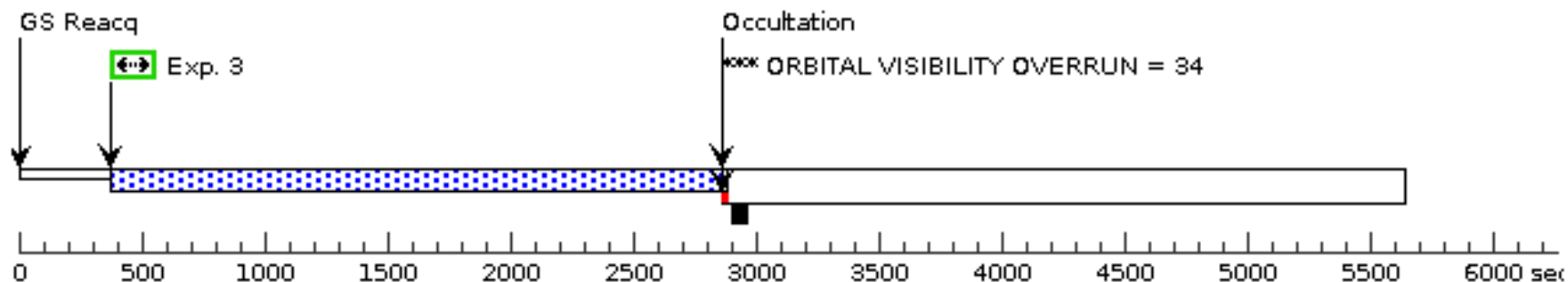
Orbit 1

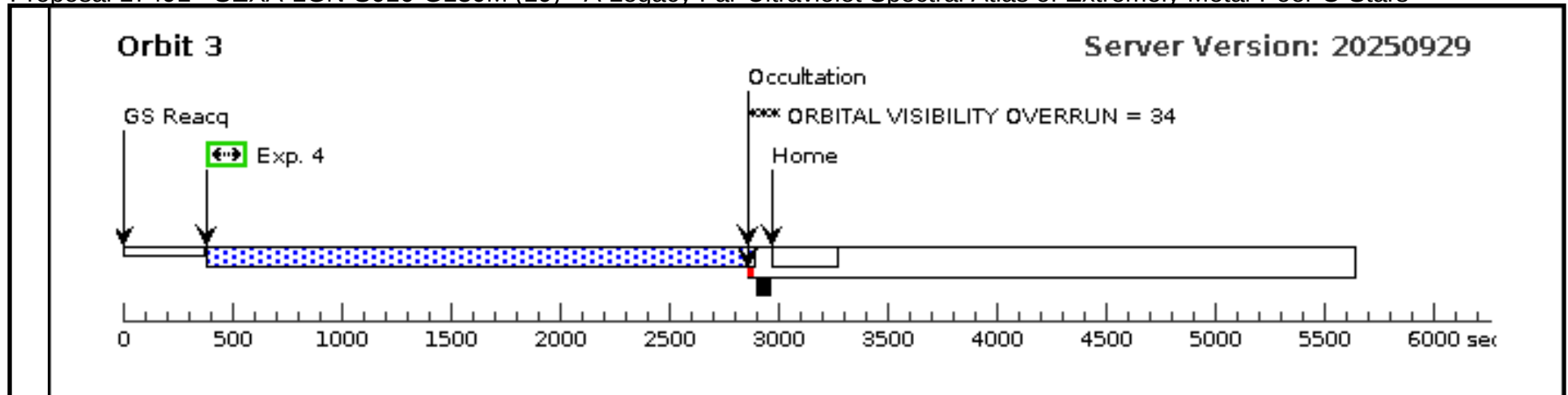
Server Version: 20250929



Orbit 2

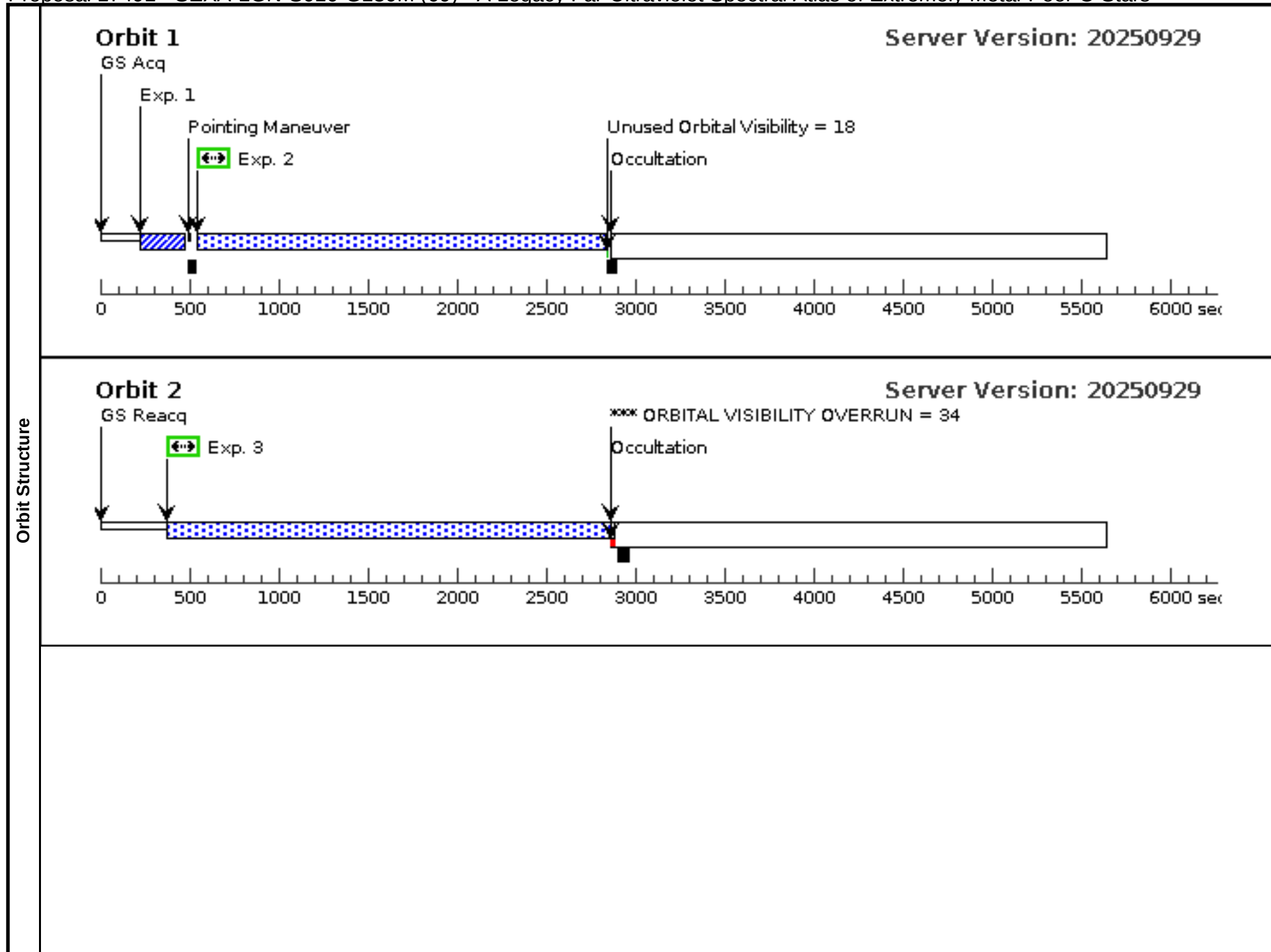
Server Version: 20250929

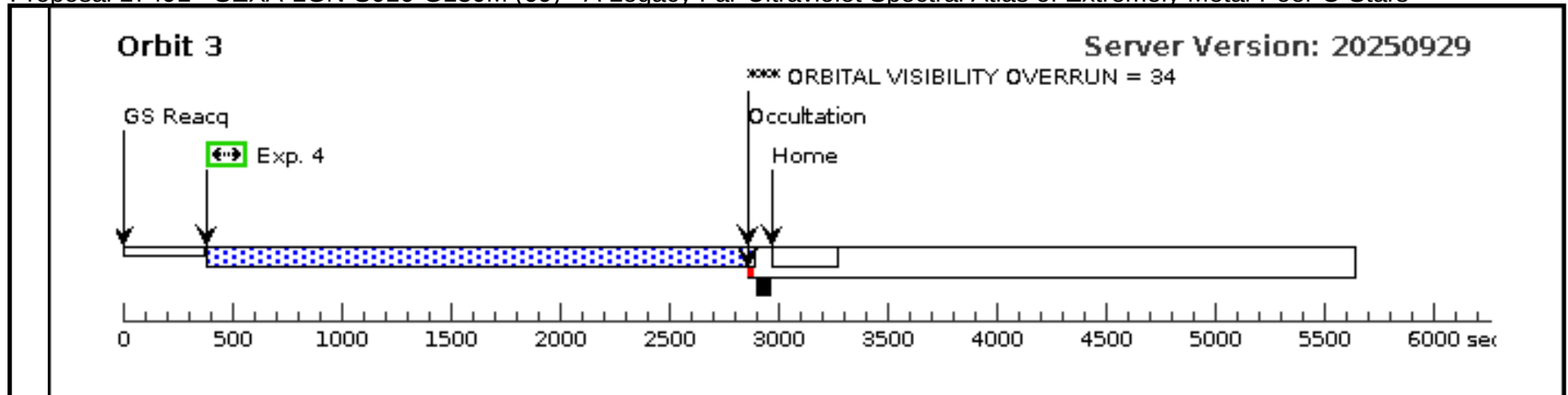




Proposal 17491 - SEXA-LGN-S016-G130M (69) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S016-G130M (69), scheduling									Mon Dec 08 18:00:46 GMT 2025
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: SCHED 100%									
Diagnostics	(SEXA-LGN-S016-G130M (69)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(SEXA-LGN-S016-G130M (69)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous		
	(6)	SEXA-LGN-S016	RA: 10 10 56.2672 (152.7344467d)				V=20.6	Reference Frame: ICRS		
		Alt Name1: J101056.28-044253.0	Dec: -04 42 53.14 (-4.71476d)				F275W=18.53			
		Alt Name2: GAIA-DR3-3779988077121167616	Equinox: J2000							
	Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SEXA-LGN-S016-ACQ (COS.ta.188 9995)	(6) SEXA-LGN-S016	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				18.7 Secs (18.7 Secs)	
									[==>]	[1]
	2	SEXA-LGN-S016-G130 M-FP3 (COS.sp.185 5090)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=50 25; FLASH=YES; SEGMENT=BOTH			2100 Secs (2119 Secs)	
									[==>2119.0 Secs]	[1]
	3	SEXA-LGN-S016-G130 M-FP4 (COS.sp.185 5090)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=50 25; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)	
									[==>2457.0 Secs]	[2]
	4	SEXA-LGN-S016-G130 M-FP4 (COS.sp.185 5090)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=50 25; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)	
								[==>2457.0 Secs]	[3]	



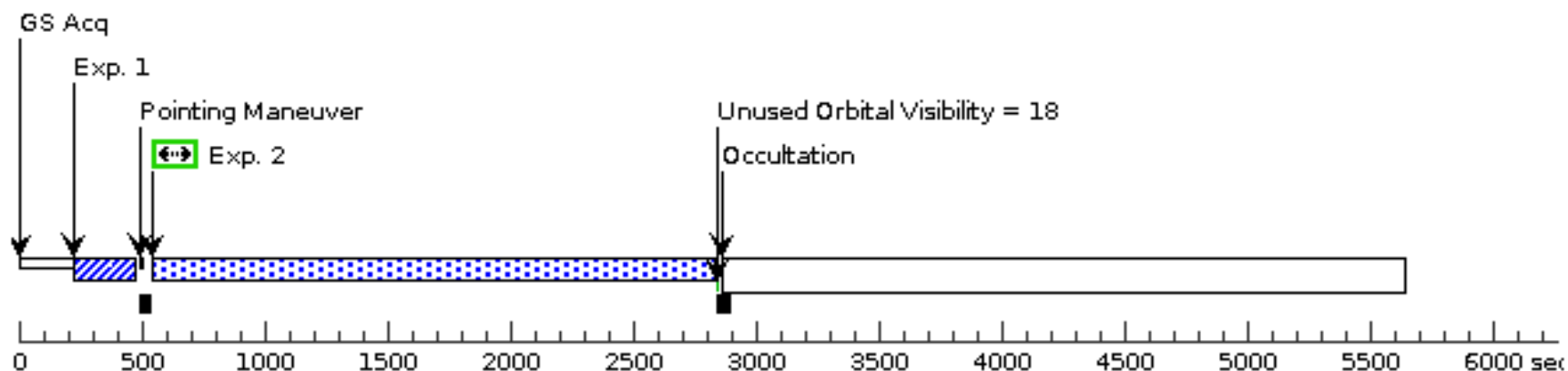


Proposal 17491 - SEXA-LGN-S016-G130M (20) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S016-G130M (20), failed Mon Dec 08 18:00:46 GMT 2025									
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%									
Diagnostics	(SEXA-LGN-S016-G130M (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(SEXA-LGN-S016-G130M (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(6)	SEXA-LGN-S016 Alt Name1: J101056.28-044253.0 Alt Name2: GAIA-DR3-3779988077121167616 Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO	RA: 10 10 56.2672 (152.7344467d) Dec: -04 42 53.14 (-4.71476d) Equinox: J2000			V=20.6 F275W=18.53		Reference Frame: ICRS		
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SEXA-LGN-S016-ACQ 6 (COS.ta.188 9995)	(6) SEXA-LGN-S016	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				18.7 Secs (18.7 Secs) [==>]	[1]
	2	SEXA-LGN-S016-G130 M-FP3 (COS.sp.185 5090)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=50 25; FLASH=YES; SEGMENT=BOTH			2100 Secs (2119 Secs) [==>2119.0 Secs]	[1]
	3	SEXA-LGN-S016-G130 M-FP4 (COS.sp.185 5090)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=50 25; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs) [==>2457.0 Secs]	[2]
	4	SEXA-LGN-S016-G130 M-FP4 (COS.sp.185 5090)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=50 25; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs) [==>2457.0 Secs]	[3]

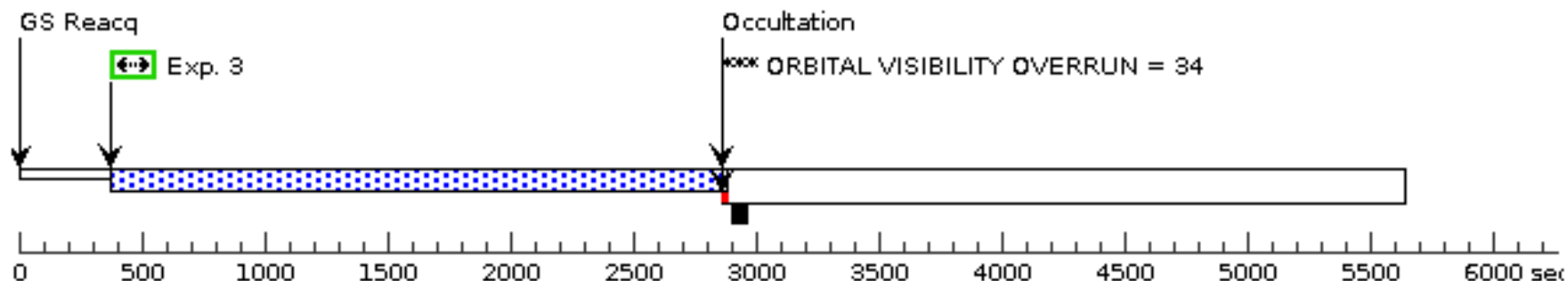
Orbit 1

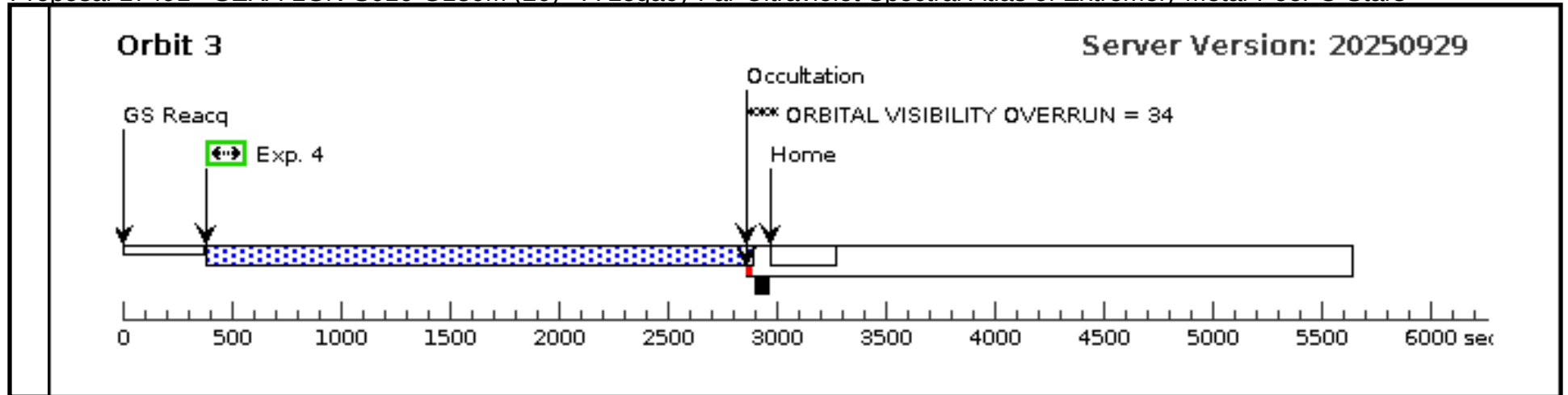
Server Version: 20250929



Orbit 2

Server Version: 20250929



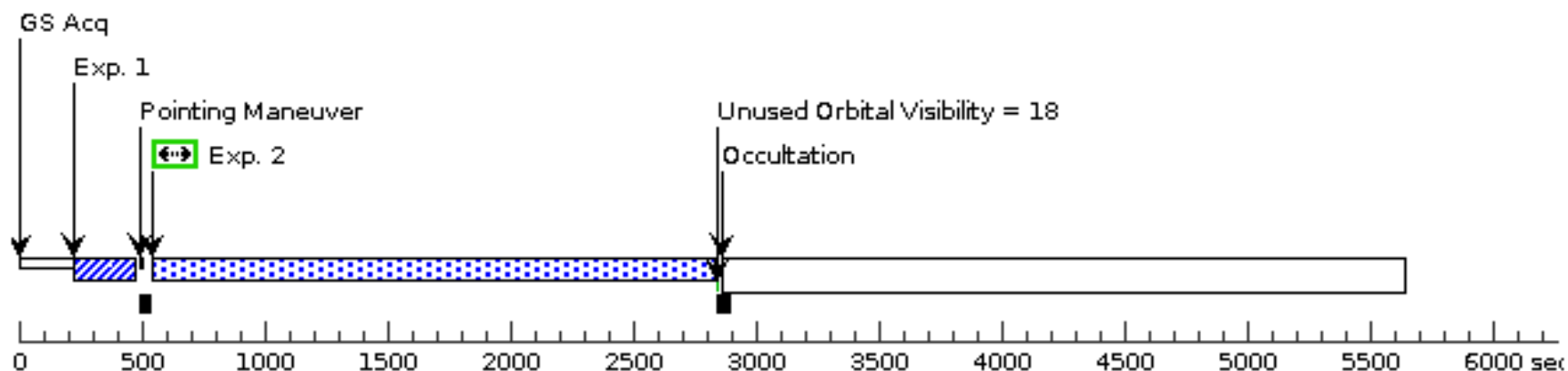


Proposal 17491 - SEXA-LGN-S016-G130M (70) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S016-G130M (70), scheduling									Mon Dec 08 18:00:47 GMT 2025
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: SCHED 100%									
Diagnostics	(SEXA-LGN-S016-G130M (70)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(SEXA-LGN-S016-G130M (70)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous		
	(6)	SEXA-LGN-S016	RA: 10 10 56.2672 (152.7344467d)				V=20.6	Reference Frame: ICRS		
		Alt Name1: J101056.28-044253.0	Dec: -04 42 53.14 (-4.71476d)				F275W=18.53			
		Alt Name2: GAIA-DR3-3779988077121167616	Equinox: J2000							
	Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SEXA-LGN-S016-ACQ 6 (COS.ta.188 9995)	(6) SEXA-LGN-S016	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				18.7 Secs (18.7 Secs)	
									[==>]	[1]
	2	SEXA-LGN-S016-G130 M-FP3 (COS.sp.185 5090)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=50 25; FLASH=YES; SEGMENT=BOTH			2100 Secs (2119 Secs)	
									[==>2119.0 Secs]	[1]
	3	SEXA-LGN-S016-G130 M-FP4 (COS.sp.185 5090)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=50 25; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)	
									[==>2457.0 Secs]	[2]
	4	SEXA-LGN-S016-G130 M-FP4 (COS.sp.185 5090)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=50 25; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs)	
								[==>2457.0 Secs]	[3]	

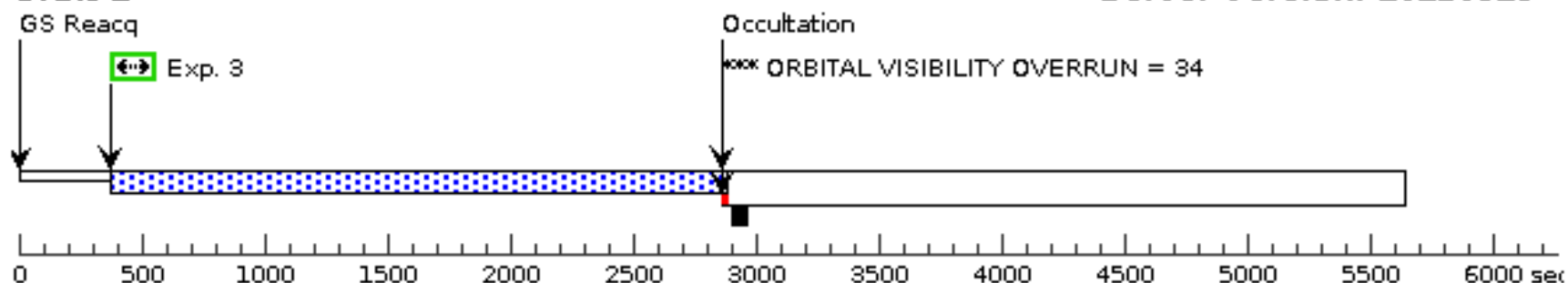
Orbit 1

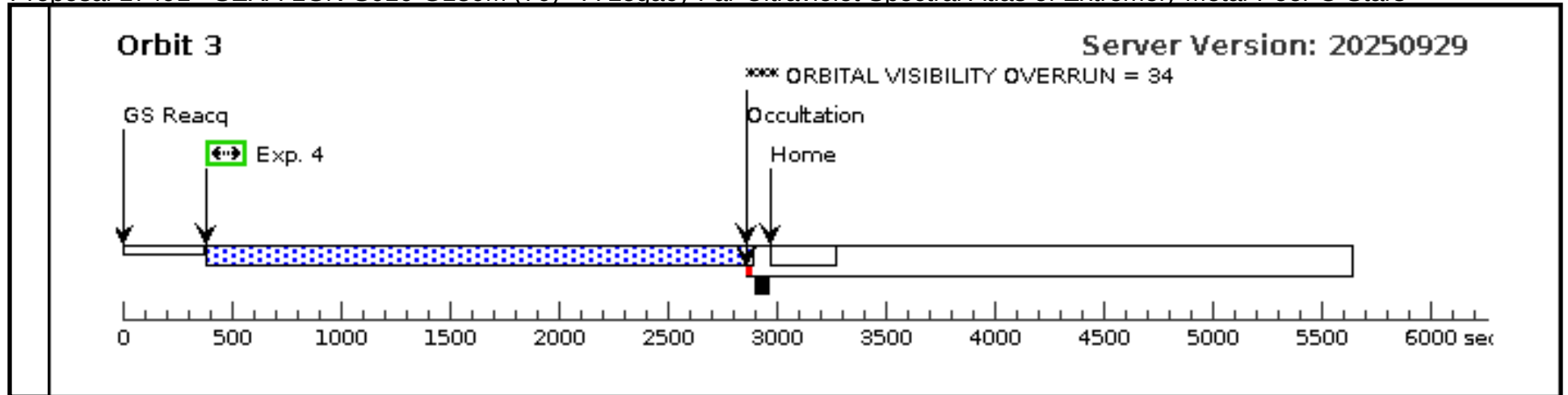
Server Version: 20250929



Orbit 2

Server Version: 20250929



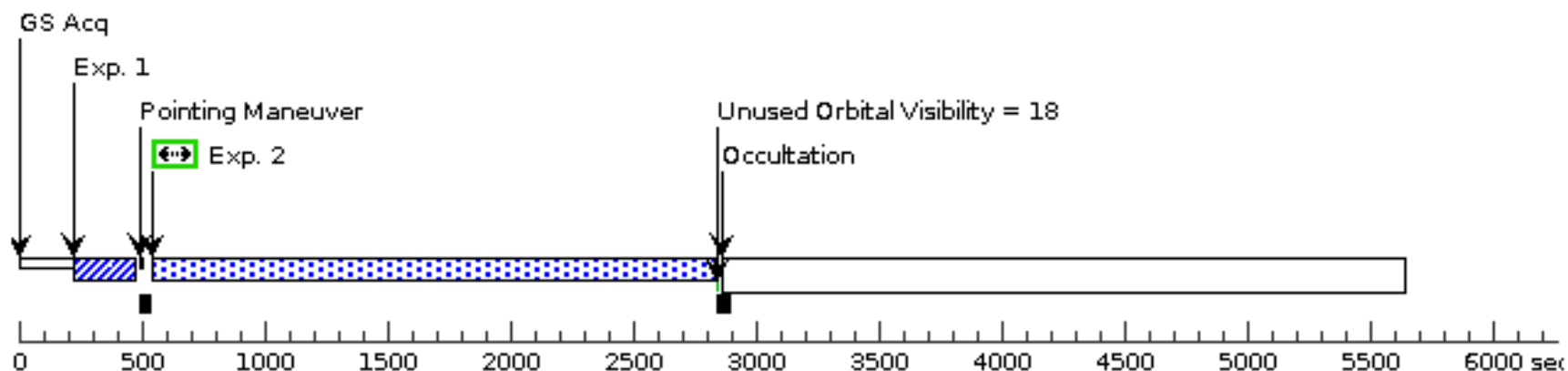


Proposal 17491 - SEXA-LGN-S016-G130M (21) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S016-G130M (21), completed Mon Dec 08 18:00:47 GMT 2025									
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%									
Diagnos	(SEXA-LGN-S016-G130M (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(6)	SEXA-LGN-S016 Alt Name1: J101056.28-044253.0 Alt Name2: GAIA-DR3-3779988077121167616 Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO	RA: 10 10 56.2672 (152.7344467d) Dec: -04 42 53.14 (-4.71476d) Equinox: J2000			V=20.6 F275W=18.53		Reference Frame: ICRS		
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SEXA-LGN-S016-ACQ 6 (COS.ta.188 9995)	(6) SEXA-LGN-S016	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				18.7 Secs (18.7 Secs) [==>]	[1]
	2	SEXA-LGN-S016-G130 M-FP3 (COS.sp.185 5090)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=50 25; FLASH=YES; SEGMENT=BOTH			2100 Secs (2119 Secs) [==>2119.0 Secs]	[1]
	3	SEXA-LGN-S016-G130 M-FP4 (COS.sp.185 5090)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=50 25; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs) [==>2457.0 Secs]	[2]

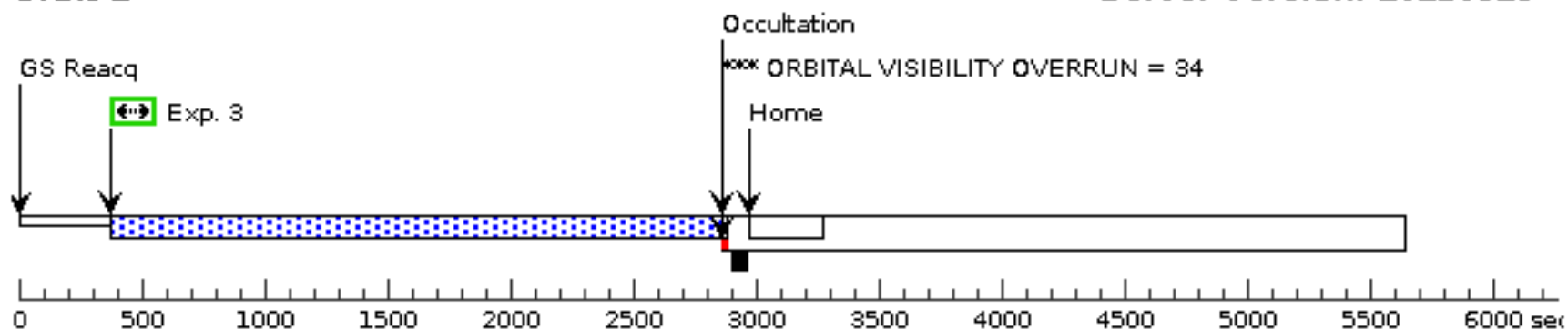
Orbit 1

Server Version: 20250929



Orbit 2

Server Version: 20250929

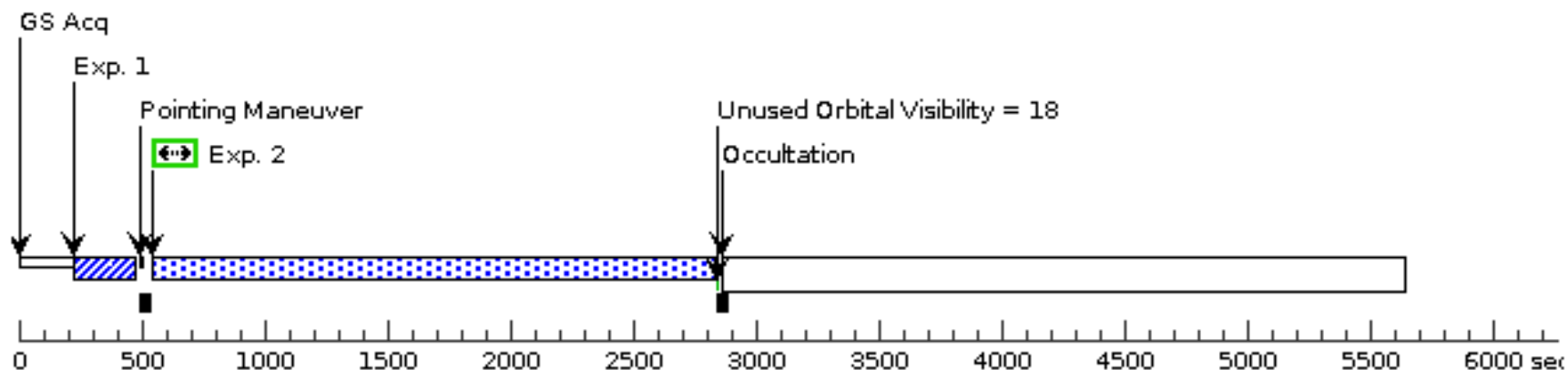


Proposal 17491 - SEXA-LGN-S016-G140L (22) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S016-G140L (22), failed									Mon Dec 08 18:00:47 GMT 2025
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: SCHED 100%									
Comments: All four FP-POS positions are used to observe this target, split across two visits (22 and 23).										
Diagnostics	(SEXA-LGN-S016-G140L (22)) 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.									
	(SEXA-LGN-S016-G140L (22)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(SEXA-LGN-S016-G140L (22)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous		
	(6)	SEXA-LGN-S016	RA: 10 10 56.2672 (152.7344467d)				V=20.6	Reference Frame: ICRS		
		Alt Name1: J101056.28-044253.0	Dec: -04 42 53.14 (-4.71476d)				F275W=18.53			
		Alt Name2: GAIA-DR3-3779988077121167616	Equinox: J2000							
Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SEXA-LGN-S016-ACQ 6 (COS.ta.188 9995)	(6) SEXA-LGN-S016	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				18.7 Secs (18.7 Secs)	
									[==>]	[1]
	2	SEXA-LGN-S016-G140 L-FP1 (COS.sp.185 0615)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=86 52; FLASH=YES; SEGMENT=A			2100 Secs (2082 Secs)	
									[==>2082.0 Secs]	[1]
	3	SEXA-LGN-S016-G140 L-FP2 (COS.sp.185 0615)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=86 52; FLASH=YES; SEGMENT=A			2100 Secs (2457 Secs)	
									[==>2457.0 Secs]	[2]
4	SEXA-LGN-S016-G140 L-FP3 (COS.sp.185 0615)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=86 52; FLASH=YES; SEGMENT=A			2100 Secs (2457 Secs)		
									[==>2457.0 Secs]	[3]

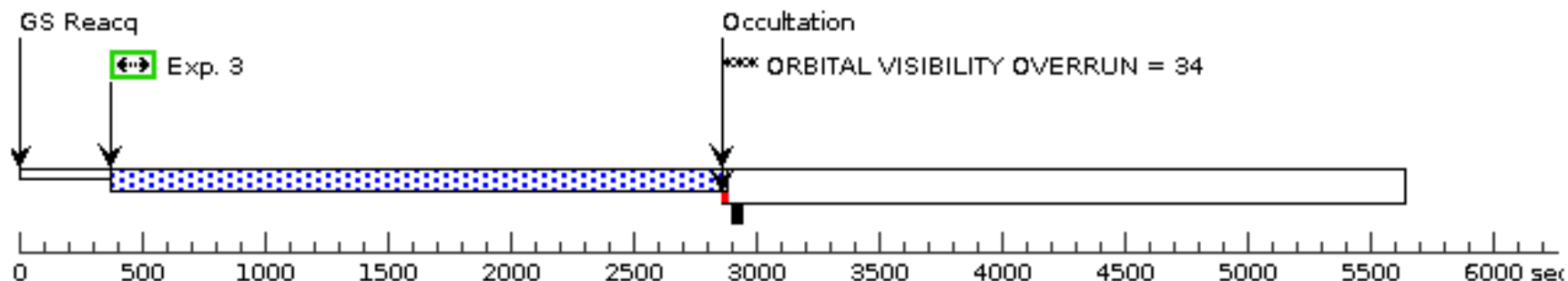
Orbit 1

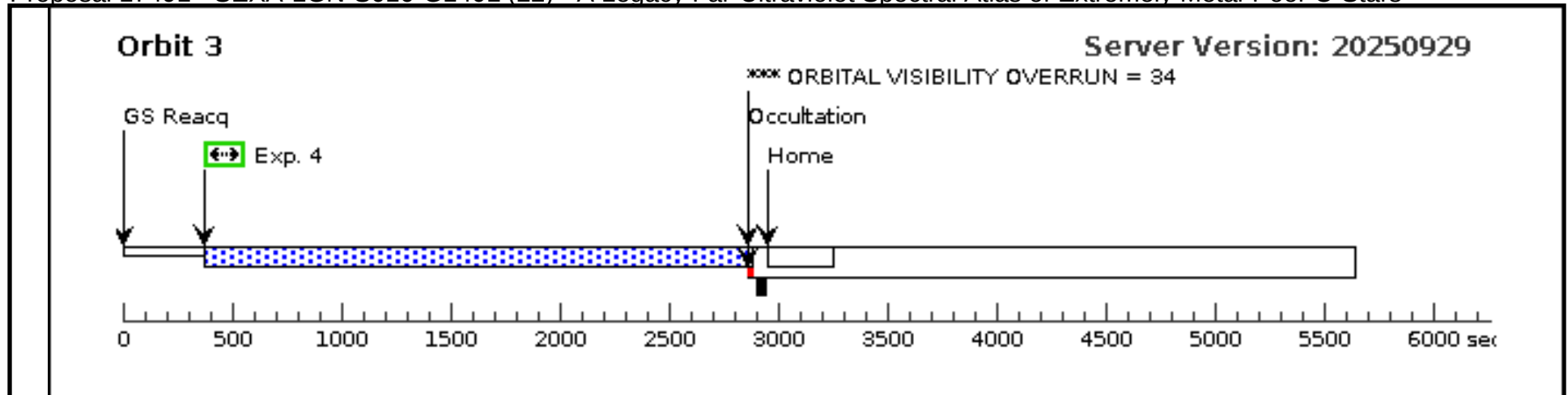
Server Version: 20250929



Orbit 2

Server Version: 20250929



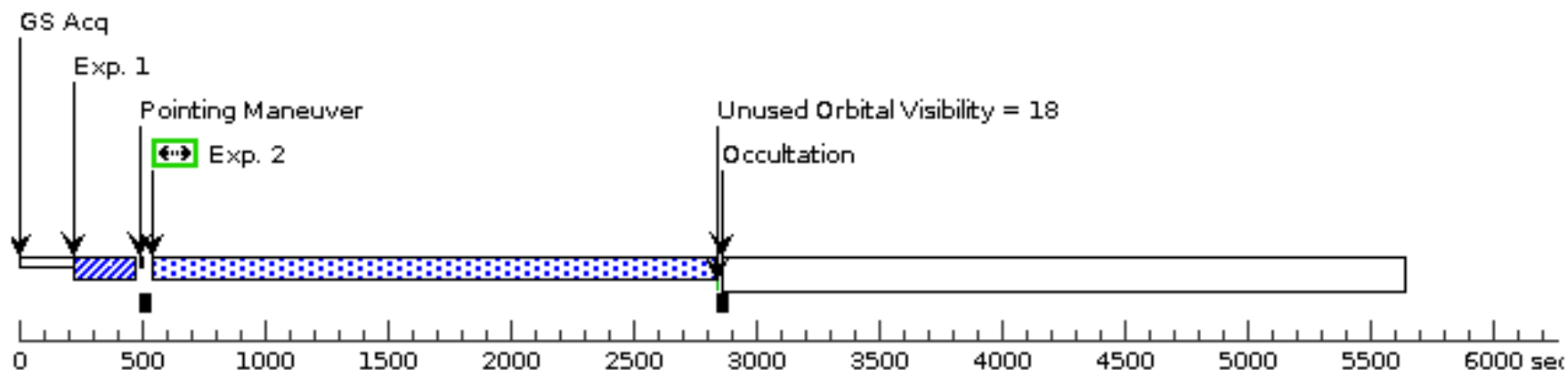


Proposal 17491 - SEXA-LGN-S016-G140L (72) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S016-G140L (72), scheduling									Mon Dec 08 18:00:47 GMT 2025
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: SCHED 100%									
Comments: All four FP-POS positions are used to observe this target, split across two visits (22 and 23).										
Diagnostics	(SEXA-LGN-S016-G140L (72)) 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.									
	(SEXA-LGN-S016-G140L (72)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(SEXA-LGN-S016-G140L (72)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(6)	SEXA-LGN-S016	RA: 10 10 56.2672 (152.7344467d)			V=20.6		Reference Frame: ICRS		
		Alt Name1: J101056.28-044253.0	Dec: -04 42 53.14 (-4.71476d)			F275W=18.53				
		Alt Name2: GAIA-DR3-3779988077121167616	Equinox: J2000							
Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SEXA-LGN-S016-ACQ 6 (COS.ta.1889995)	(6) SEXA-LGN-S016	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				18.7 Secs (18.7 Secs)	
									[==>]	[1]
	2	SEXA-LGN-S016-G140 L-FP1 (COS.sp.1850615)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=8652; FLASH=YES; SEGMENT=A			2100 Secs (2082 Secs)	
									[==>2082.0 Secs]	[1]
	3	SEXA-LGN-S016-G140 L-FP2 (COS.sp.1850615)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=8652; FLASH=YES; SEGMENT=A			2100 Secs (2457 Secs)	
									[==>2457.0 Secs]	[2]
	4	SEXA-LGN-S016-G140 L-FP3 (COS.sp.1850615)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=8652; FLASH=YES; SEGMENT=A			2100 Secs (2457 Secs)	
								[==>2457.0 Secs]	[3]	

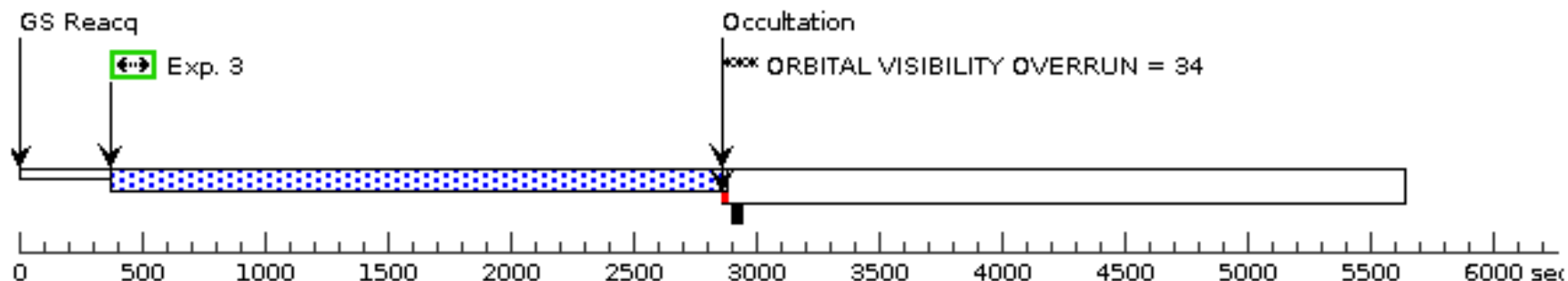
Orbit 1

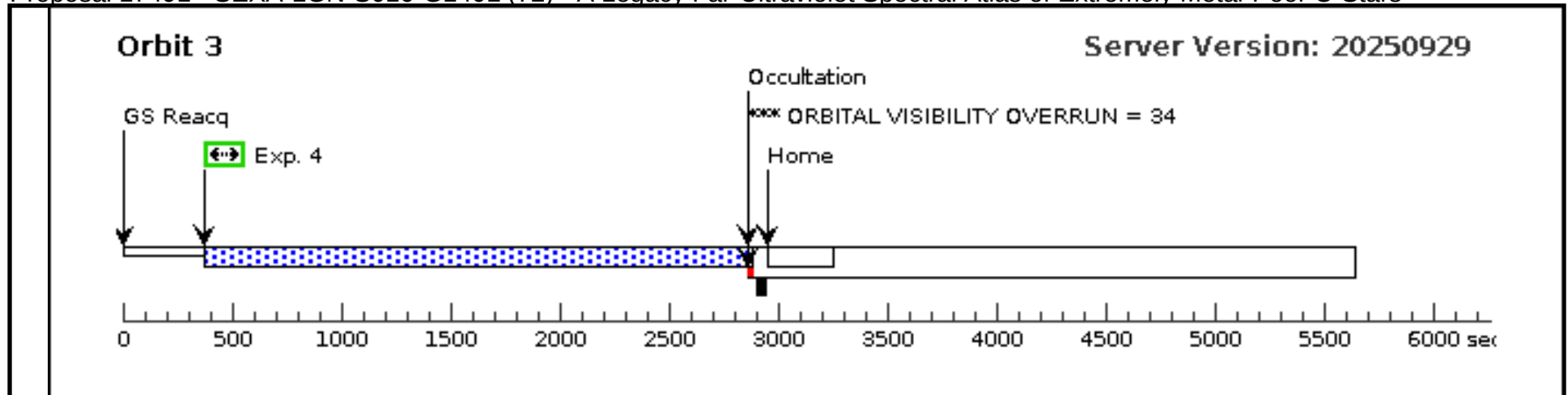
Server Version: 20250929



Orbit 2

Server Version: 20250929



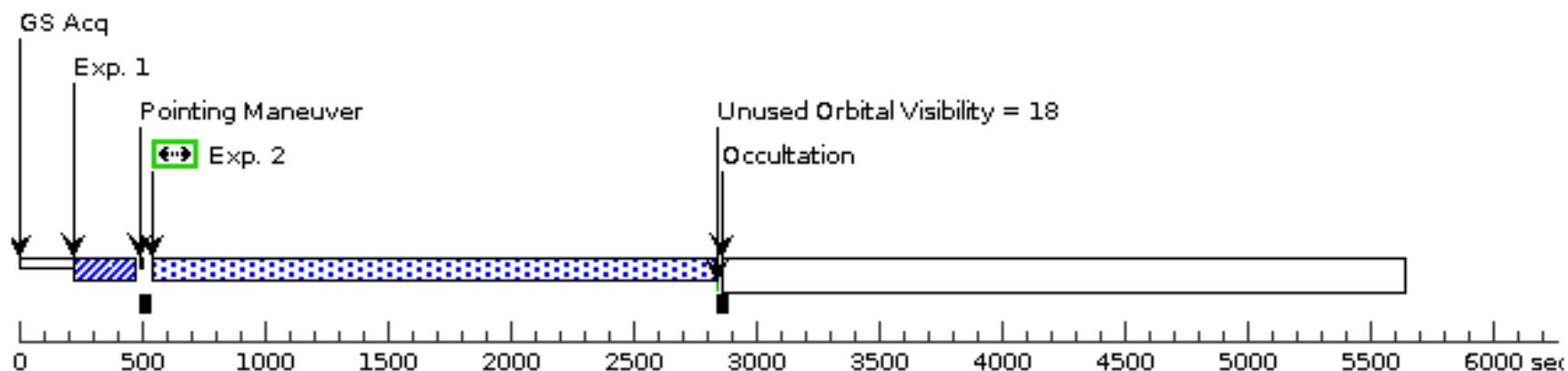


Proposal 17491 - SEXA-LGN-S016-G140L (23) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S016-G140L (23), failed									Mon Dec 08 18:00:47 GMT 2025
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: SCHED 100%									
Comments: All four FP-POS positions are used to observe this target, split across two visits (22 and 23).										
Diagnostics	(SEXA-LGN-S016-G140L (23)) 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.									
	(SEXA-LGN-S016-G140L (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(SEXA-LGN-S016-G140L (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous		
	(6)	SEXA-LGN-S016	RA: 10 10 56.2672 (152.7344467d)				V=20.6	Reference Frame: ICRS		
		Alt Name1: J101056.28-044253.0	Dec: -04 42 53.14 (-4.71476d)				F275W=18.53			
		Alt Name2: GAIA-DR3-3779988077121167616	Equinox: J2000							
Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SEXA-LGN-S016-ACQ 6 (COS.ta.188 9995)	(6) SEXA-LGN-S016	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				18.7 Secs (18.7 Secs)	
									[==>]	[1]
	2	SEXA-LGN-S016-G140 L-FP1 (COS.sp.185 0615)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=86 52; FLASH=YES; SEGMENT=A			2100 Secs (2082 Secs)	
									[==>2082.0 Secs]	[1]
	3	SEXA-LGN-S016-G140 L-FP3 (COS.sp.185 0615)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=86 52; FLASH=YES; SEGMENT=A			2100 Secs (2457 Secs)	
									[==>2457.0 Secs]	[2]
4	SEXA-LGN-S016-G140 L-FP4 (COS.sp.185 0615)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=86 52; FLASH=YES; SEGMENT=A			2100 Secs (2457 Secs)		
									[==>2457.0 Secs]	[3]

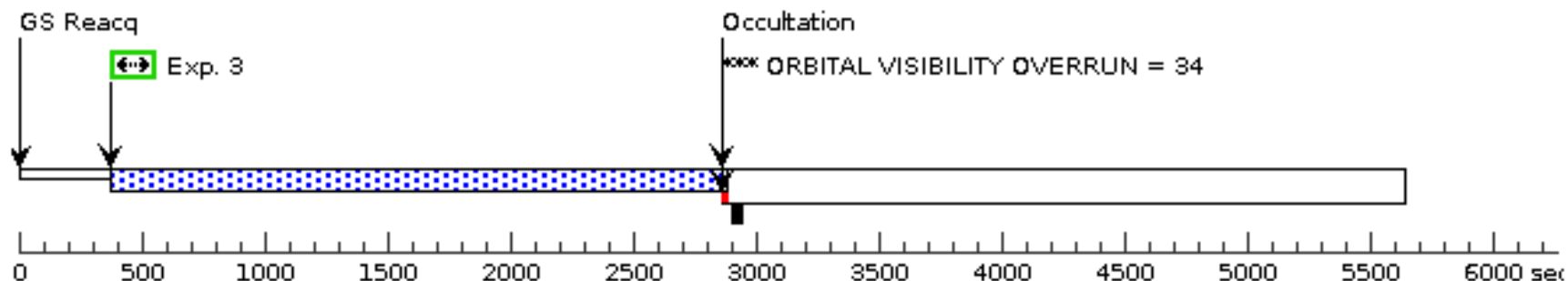
Orbit 1

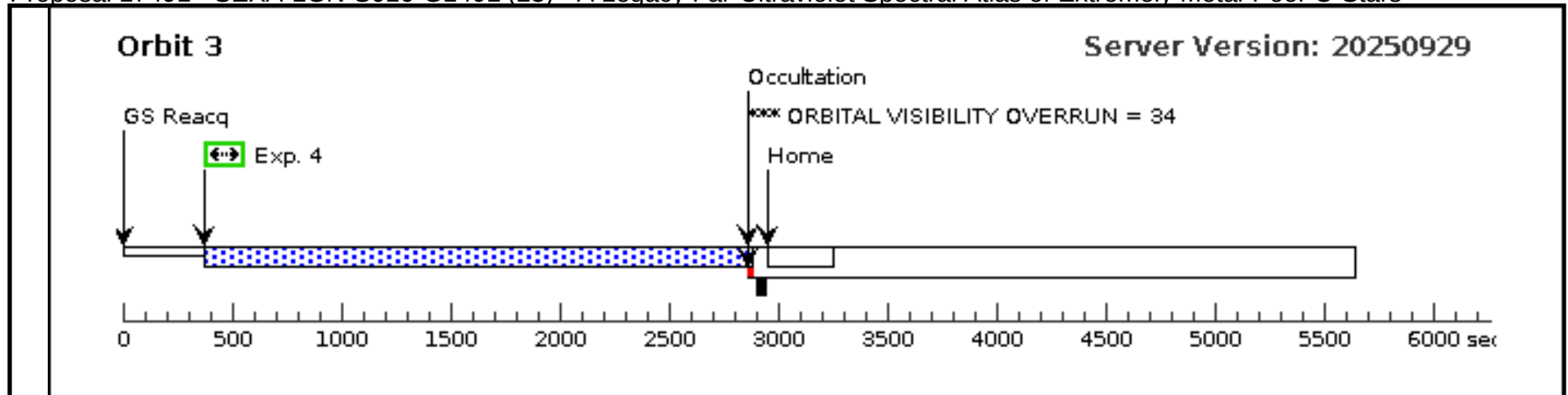
Server Version: 20250929



Orbit 2

Server Version: 20250929



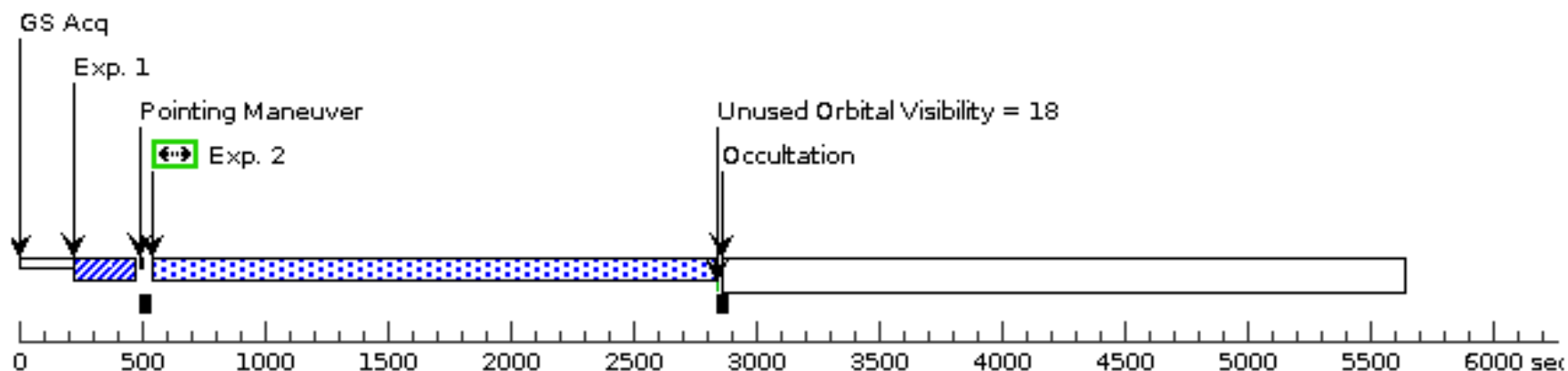


Proposal 17491 - SEXA-LGN-S016-G140L (73) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, SEXA-LGN-S016-G140L (73), scheduling										Mon Dec 08 18:00:47 GMT 2025
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: SCHED 100%										
Comments: All four FP-POS positions are used to observe this target, split across two visits (22 and 23).											
Diagnostics	(SEXA-LGN-S016-G140L (73)) 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.										
	(SEXA-LGN-S016-G140L (73)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(SEXA-LGN-S016-G140L (73)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(6)	SEXA-LGN-S016	RA: 10 10 56.2672 (152.7344467d)				V=20.6		Reference Frame: ICRS		
		Alt Name1: J101056.28-044253.0	Dec: -04 42 53.14 (-4.71476d)				F275W=18.53				
		Alt Name2: GAIA-DR3-3779988077121167616	Equinox: J2000								
Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	SEXA-LGN-S016-ACQ 6 (COS.ta.188 9995)	(6) SEXA-LGN-S016	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				18.7 Secs (18.7 Secs)		
									[==>]		[1]
	2	SEXA-LGN-S016-G140 L-FP1 (COS.sp.185 0615)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=86 52; FLASH=YES; SEGMENT=A			2100 Secs (2082 Secs)		
									[==>2082.0 Secs]		[1]
	3	SEXA-LGN-S016-G140 L-FP3 (COS.sp.185 0615)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=86 52; FLASH=YES; SEGMENT=A			2100 Secs (2457 Secs)		
								[==>2457.0 Secs]		[2]	
4	SEXA-LGN-S016-G140 L-FP4 (COS.sp.185 0615)	(6) SEXA-LGN-S016	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=86 52; FLASH=YES; SEGMENT=A			2100 Secs (2457 Secs)			
								[==>2457.0 Secs]		[3]	

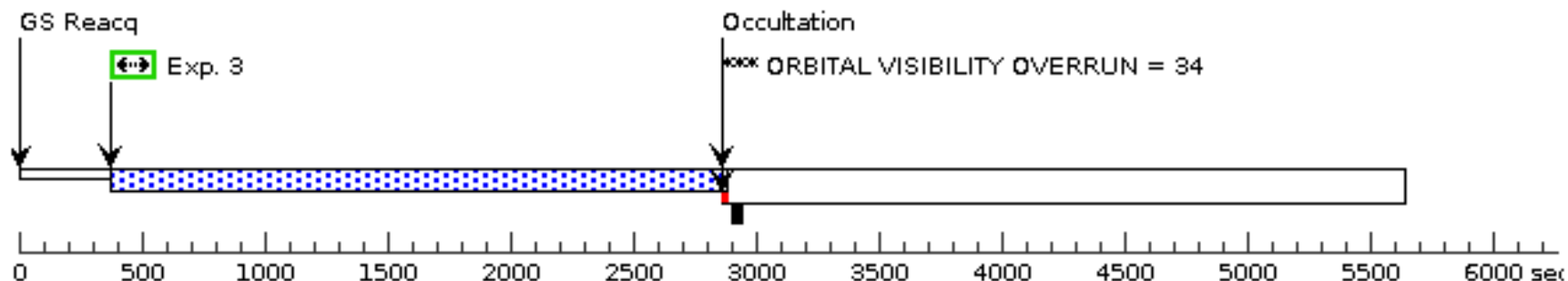
Orbit 1

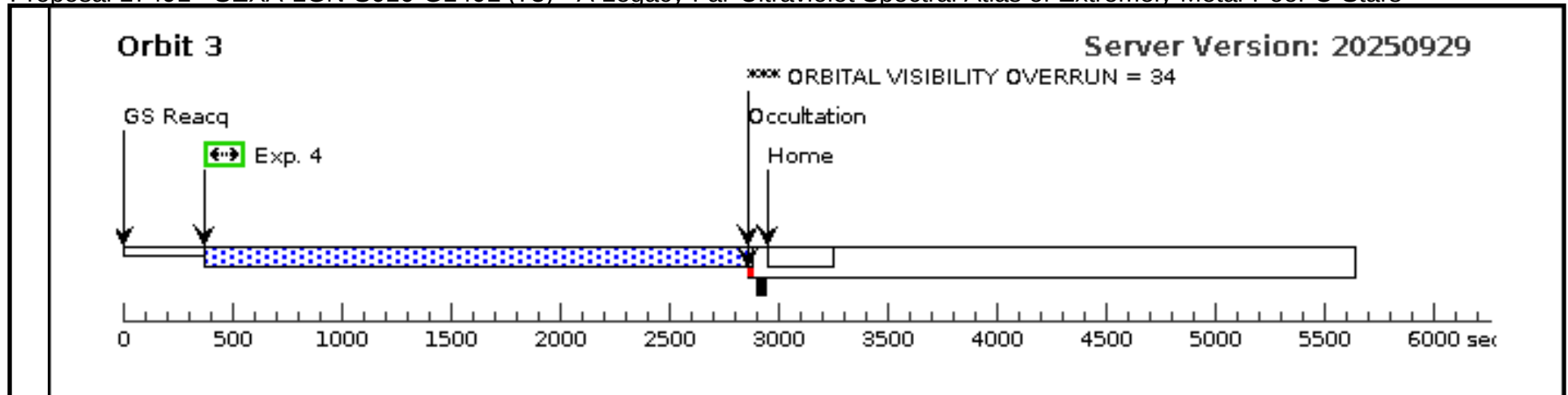
Server Version: 20250929



Orbit 2

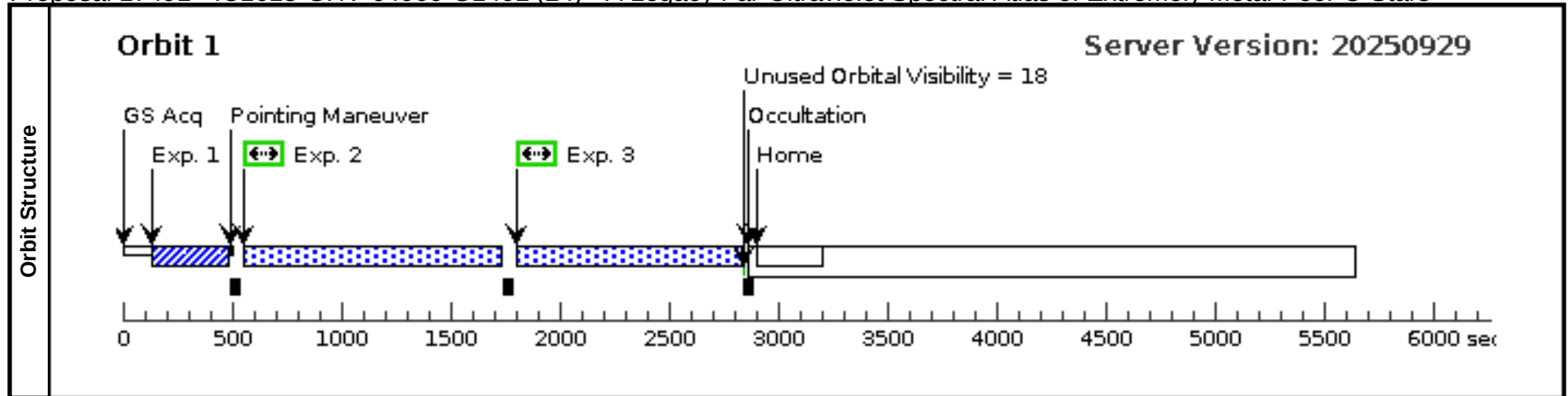
Server Version: 20250929





Proposal 17491 - IC1613-GHV-64066-G140L (24) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, IC1613-GHV-64066-G140L (24), completed										Mon Dec 08 18:00:47 GMT 2025
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: SCHED 100%										
Comments: This visit consists of only one orbit. While we recognize that use of all available FP-POS maximizes data quality in general, there is a tradeoff between the overhead incurred with each FP-POS change and the science exposure time, and this SNR. We elect to use just two FP-POS=1, 4 -- using the largest available step size to maximize the wavelength range covered -- to ensure sufficient continuum SNR to achieve our science goals.											
Diagnostics	(IC1613-GHV-64066-G140L (24)) 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.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(7)	IC1613-GHV-64066	RA: 01 05 2.0800 (16.2586667d)				V=19.0		Reference Frame: ICRS		
		Alt Name1: IC1613-64066	Dec: +02 09 28.17 (2.15782d)				F275W=16.65				
		Alt Name2: GAIA-DR3-2539060386222149120	Equinox: J2000								
Comments: Category=EXT-STAR Description=[GIANT O] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	IC1613-GH V-64066-A CQ (COS.ta.189 1540)	(7) IC1613-GHV-64 066	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				22 Secs (22 Secs)		
									[==>]		[1]
	Comments: MIRRORA resulted in a BOT Health & Safety warning for a nearby GALEX source, so we use MIRRORB for TA instead.										
	2	IC1613-GH V-64066-G1 40L-FP1 (COS.sp.185 0684)	(7) IC1613-GHV-64 066	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=35 21; FLASH=YES; SEGMENT=A			976 Secs (976 Secs)		
									[==>]		[1]
	Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2/3 times the buffer fill time from the ETC is 4695s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 3521s to ensure that data loss does not occur if the target is indeed brighter than expected.										
3	IC1613-GH V-64066-G1 40L-FP4 (COS.sp.185 0684)	(7) IC1613-GHV-64 066	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=35 21; FLASH=YES; SEGMENT=A			976 Secs (976 Secs)			
								[==>]		[1]	
Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2/3 times the buffer fill time from the ETC is 4695s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 3521s to ensure that data loss does not occur if the target is indeed brighter than expected.											

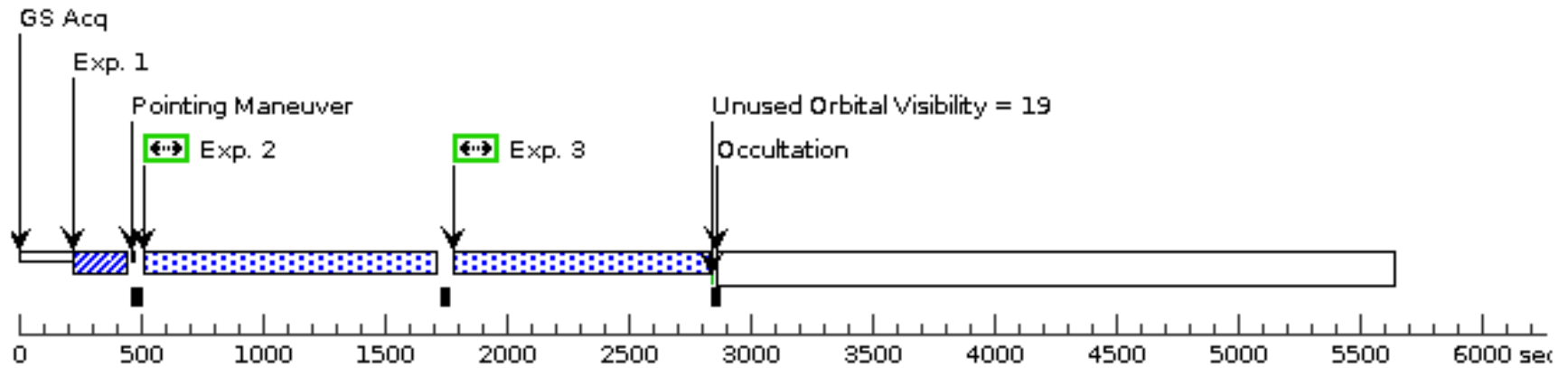


Proposal 17491 - IC1613-GHV-67684-G140L (25) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, IC1613-GHV-67684-G140L (25), completed Mon Dec 08 18:00:47 GMT 2025									
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%									
Diagnostics	(IC1613-GHV-67684-G140L (25)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(8)	IC1613-GHV-67684 Alt Name1: IC1613-67684 Alt Name2: GAIA-DR3-2539061867985436672 Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO	RA: 01 05 4.8900 (16.2703750d) Dec: +02 09 32.67 (2.15908d) Equinox: J2000			V=19.0 F275W=16.72		Reference Frame: ICRS		
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	IC1613-GH V-67684-A CQ (COS.ta.188 9997)	(8) IC1613-GHV-67684	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				4 Secs (4 Secs) [==>]	[1]
	2	IC1613-GH V-67684-G1 40L-FP1 (COS.sp.185 0714)	(8) IC1613-GHV-67684	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=62 16; FLASH=YES; SEGMENT=A			998 Secs (998 Secs) [==>]	[1]
	3	IC1613-GH V-67684-G1 40L-FP2 (COS.sp.185 0714)	(8) IC1613-GHV-67684	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=62 16; FLASH=YES; SEGMENT=A			998 Secs (998 Secs) [==>]	[1]
	4	IC1613-GH V-67684-G1 40L-FP3 (COS.sp.185 0714)	(8) IC1613-GHV-67684	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=62 16; FLASH=YES; SEGMENT=A			1171 Secs (1171 Secs) [==>]	[2]
	5	IC1613-GH V-67684-G1 40L-FP4 (COS.sp.185 0714)	(8) IC1613-GHV-67684	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=62 16; FLASH=YES; SEGMENT=A			1171 Secs (1171 Secs) [==>]	[2]

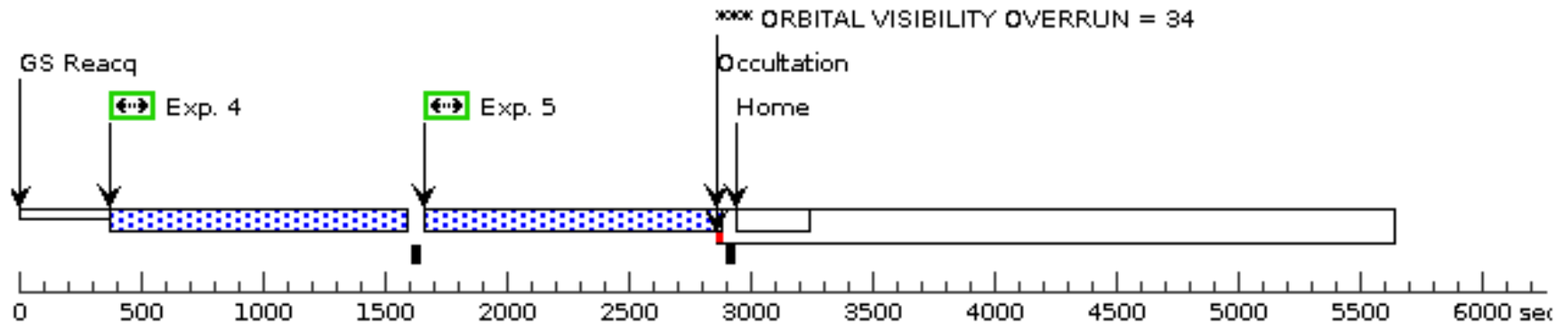
Orbit 1

Server Version: 20250929



Orbit 2

Server Version: 20250929

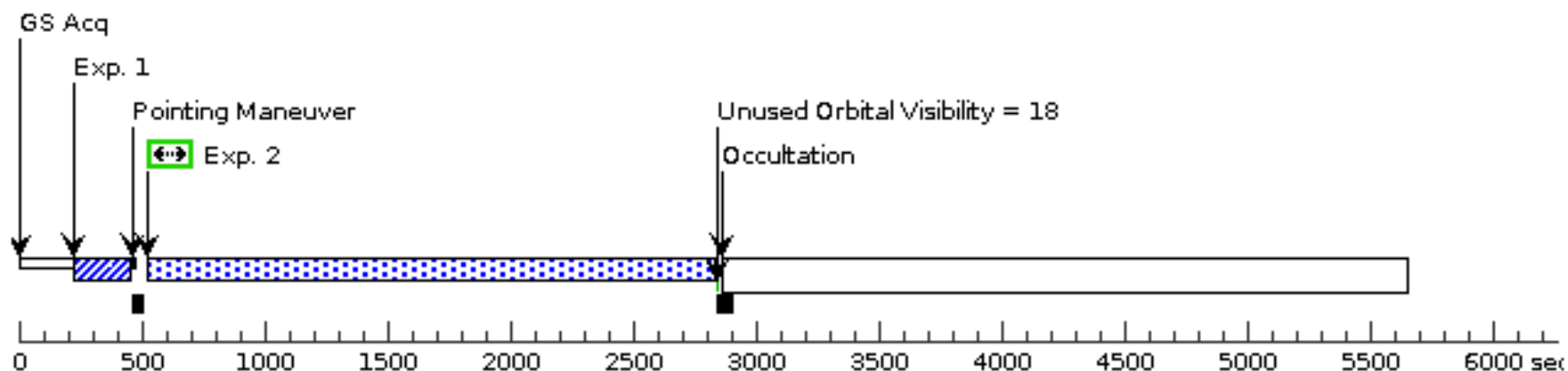


Proposal 17491 - NGC3109-EBU-20-G130M (26) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, NGC3109-EBU-20-G130M (26), completed									Mon Dec 08 18:00:47 GMT 2025
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: SCHED 100%									
Diagnostics	(NGC3109-EBU-20-G130M (26)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(NGC3109-EBU-20-G130M (26)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous		
	(9)	NGC3109-EBU-20	RA: 10 03 3.3000 (150.7637500d)				V=19.3	Reference Frame: ICRS		
		Alt Name1: NGC-3109-EBU-20	Dec: -26 09 21.34 (-26.15593d)				F275W=17.35			
		Alt Name2: GAIA-DR3-5467163415536225792	Equinox: J2000							
	Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	NGC3109-E BU-20-ACQ 20 (COS.ta.188 9998)	(9) NGC3109-EBU-20	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				7.9 Secs (7.9 Secs)	
									[==>]	[1]
	2	NGC3109-E BU-20-G13 20 0M-FP3 (COS.sp.185 5159)	(9) NGC3109-EBU-20	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=47 53; FLASH=YES; SEGMENT=BOTH			2100 Secs (2138 Secs)	
									[==>2138.0 Secs]	[1]
	3	NGC3109-E BU-20-G13 20 0M-FP3 (COS.sp.185 5159)	(9) NGC3109-EBU-20	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=47 53; FLASH=YES; SEGMENT=BOTH			2100 Secs (2454 Secs)	
									[==>2454.0 Secs]	[2]
	4	NGC3109-E BU-20-G13 20 0M-FP4 (COS.sp.185 5159)	(9) NGC3109-EBU-20	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=47 53; FLASH=YES; SEGMENT=BOTH			2100 Secs (2454 Secs)	
								[==>2454.0 Secs]	[3]	

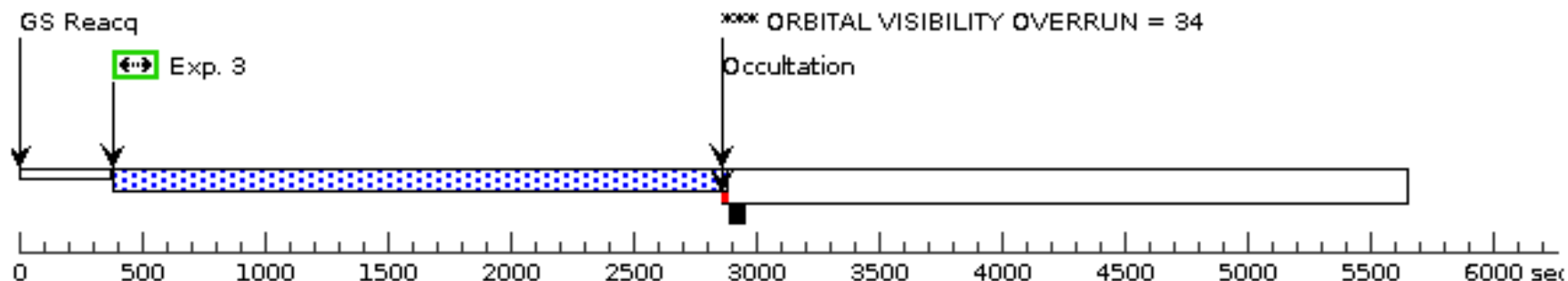
Orbit 1

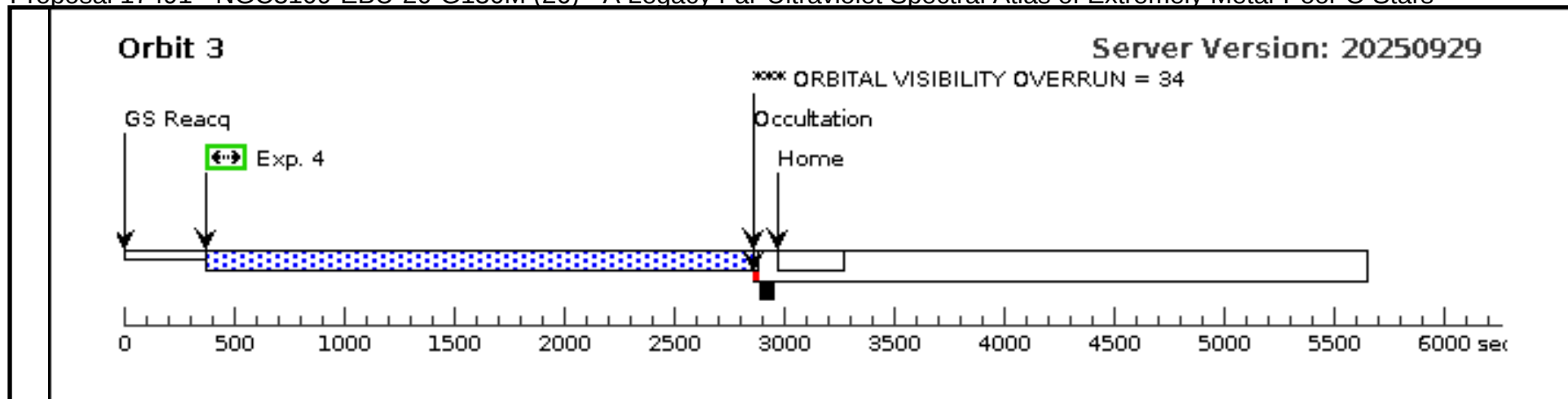
Server Version: 20250929



Orbit 2

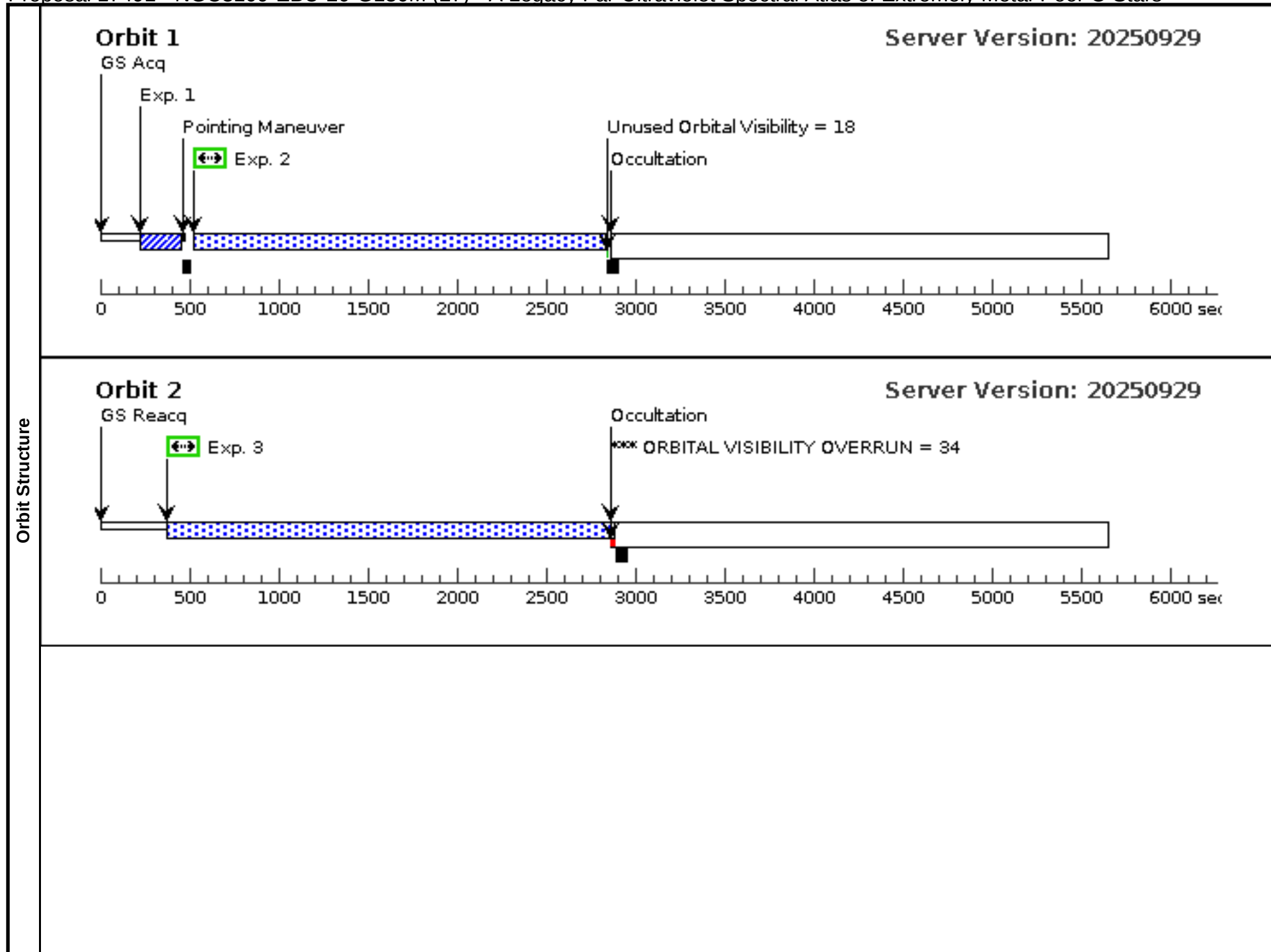
Server Version: 20250929

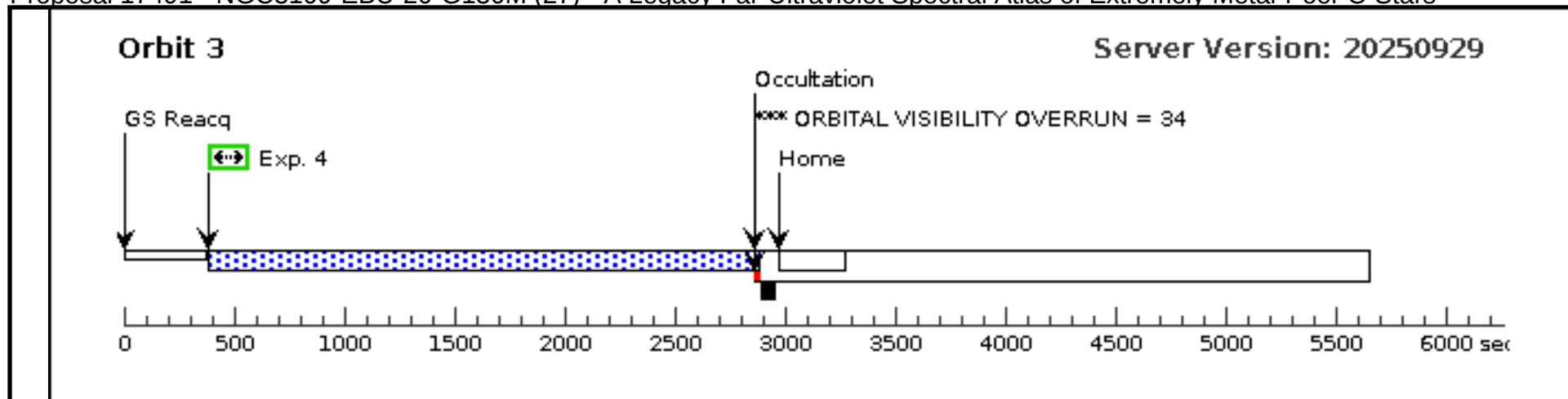




Proposal 17491 - NGC3109-EBU-20-G130M (27) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

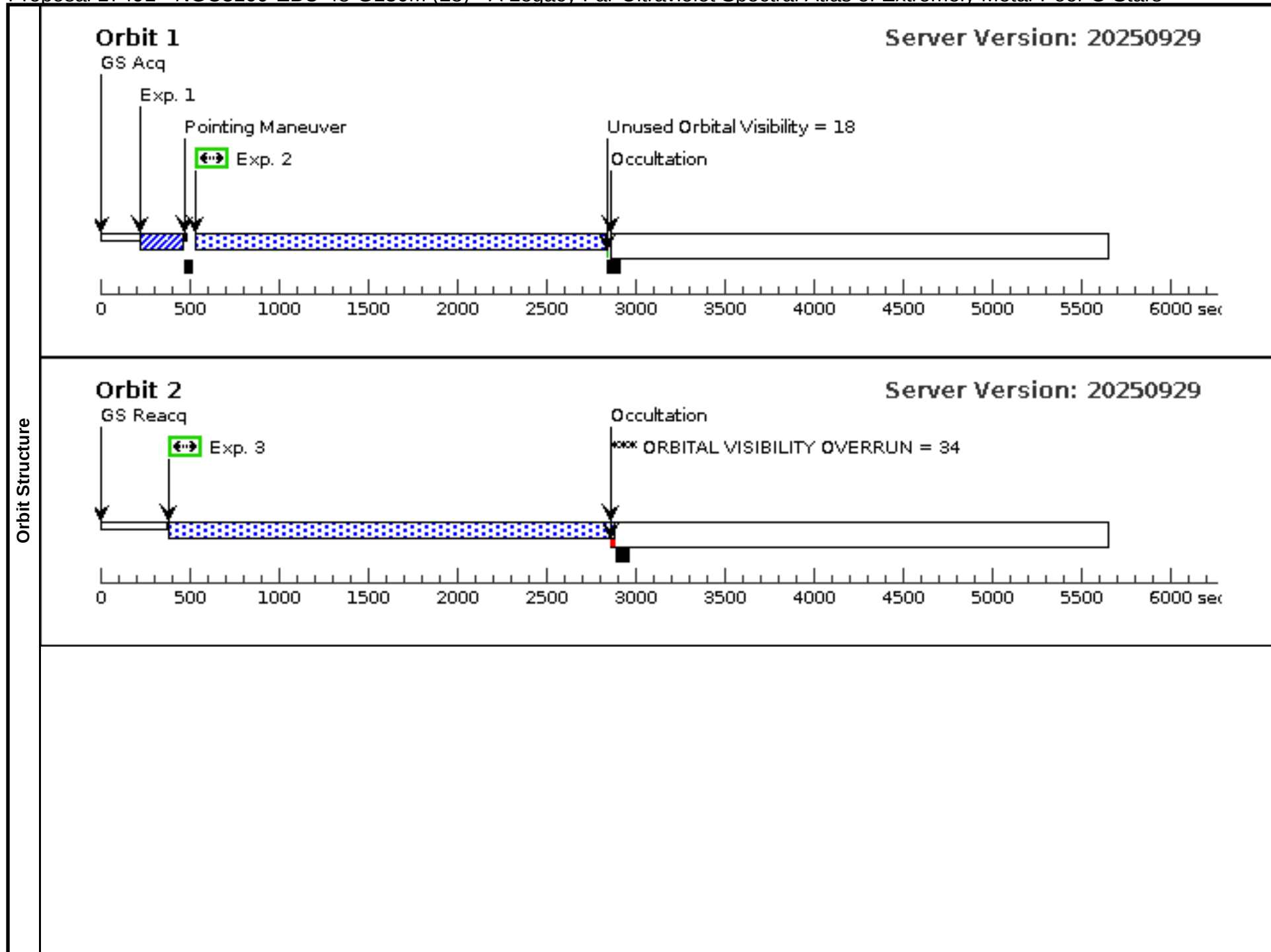
Visit	Proposal 17491, NGC3109-EBU-20-G130M (27), completed									Mon Dec 08 18:00:47 GMT 2025
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: SCHED 100%									
Diagnostics	(NGC3109-EBU-20-G130M (27)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(NGC3109-EBU-20-G130M (27)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(9)	NGC3109-EBU-20	RA: 10 03 3.3000 (150.7637500d)			V=19.3		Reference Frame: ICRS		
		Alt Name1: NGC-3109-EBU-20	Dec: -26 09 21.34 (-26.15593d)			F275W=17.35				
		Alt Name2: GAIA-DR3-5467163415536225792	Equinox: J2000							
	Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	NGC3109-E BU-20-ACQ 20 (COS.ta.188 9998)	(9) NGC3109-EBU-20	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				7.9 Secs (7.9 Secs)	
									[==>]	[1]
	2	NGC3109-E BU-20-G13 20 0M-FP3 (COS.sp.185 5159)	(9) NGC3109-EBU-20	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=47 53; FLASH=YES; SEGMENT=BOTH			2100 Secs (2138 Secs)	
									[==>2138.0 Secs]	[1]
	3	NGC3109-E BU-20-G13 20 0M-FP4 (COS.sp.185 5159)	(9) NGC3109-EBU-20	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=47 53; FLASH=YES; SEGMENT=BOTH			2100 Secs (2454 Secs)	
									[==>2454.0 Secs]	[2]
	4	NGC3109-E BU-20-G13 20 0M-FP4 (COS.sp.185 5159)	(9) NGC3109-EBU-20	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=47 53; FLASH=YES; SEGMENT=BOTH			2100 Secs (2454 Secs)	
								[==>2454.0 Secs]	[3]	

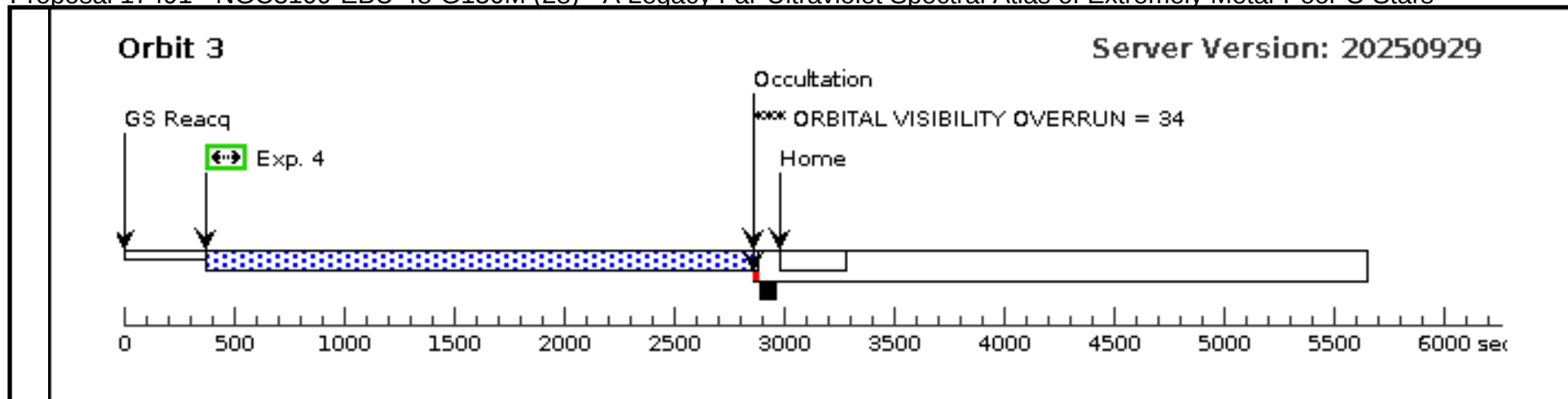




Proposal 17491 - NGC3109-EBU-48-G130M (28) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, NGC3109-EBU-48-G130M (28), failed										Mon Dec 08 18:00:47 GMT 2025
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: SCHED 100%										
Diagnostics	(NGC3109-EBU-48-G130M (28)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(NGC3109-EBU-48-G130M (28)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous			
	(10)	NGC3109-EBU-48	RA: 10 02 56.2362 (150.7343175d)				V=20.0	Reference Frame: ICRS			
		Alt Name1: GAIA-DR3-5467163656055993856	Dec: -26 08 58.23 (-26.14951d)				F275W=17.77				
			Equinox: J2000								
	Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	NGC3109-E BU-48-ACQ (COS.ta.188 9999)	(10) NGC3109-EBU -48	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs)		
									[>=>]	[1]	
	2	NGC3109-E BU-48-G13 0M-FP3 (COS.sp.185 5177)	(10) NGC3109-EBU -48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=37 27; FLASH=YES; SEGMENT=BOTH			2100 Secs (2130 Secs)		
									[>=>2130.0 Secs]	[1]	
	Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2 /3 times the buffer fill time from the ETC is 4977s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 3727s to ensure that data loss does not occur if the target is indeed brighter than expected.										
	3	NGC3109-E BU-48-G13 0M-FP3 (COS.sp.185 5177)	(10) NGC3109-EBU -48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=37 27; FLASH=YES; SEGMENT=BOTH			2100 Secs (2454 Secs)		
									[>=>2454.0 Secs]	[2]	
	Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2 /3 times the buffer fill time from the ETC is 4977s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 3727s to ensure that data loss does not occur if the target is indeed brighter than expected.										
	4	NGC3109-E BU-48-G13 0M-FP4 (COS.sp.185 5177)	(10) NGC3109-EBU -48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=37 27; FLASH=YES; SEGMENT=BOTH			2100 Secs (2454 Secs)		
								[>=>2454.0 Secs]	[3]		
Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2 /3 times the buffer fill time from the ETC is 4977s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 3727s to ensure that data loss does not occur if the target is indeed brighter than expected.											



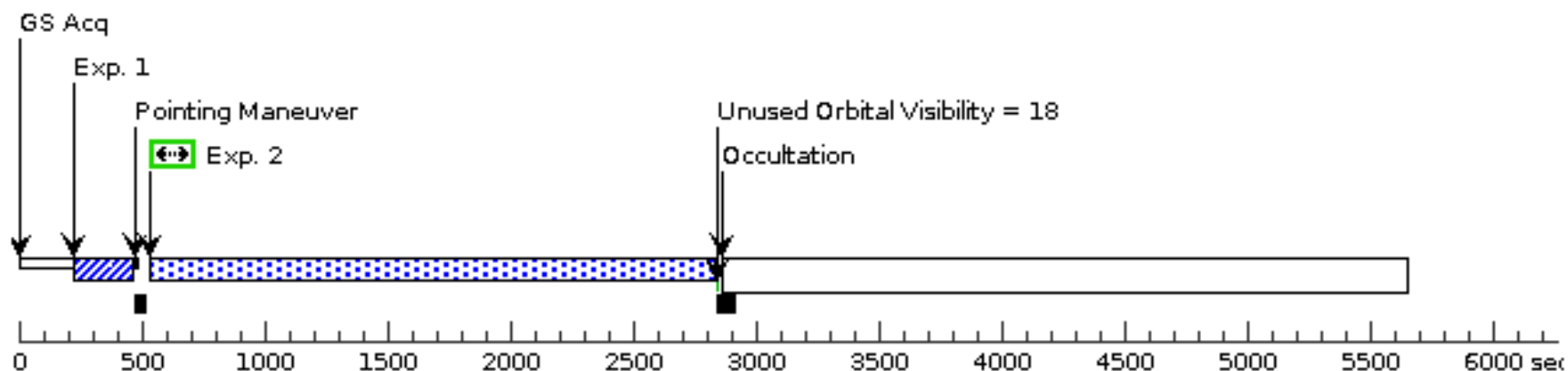


Proposal 17491 - NGC3109-EBU-48-G130M (78) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, NGC3109-EBU-48-G130M (78), completed									Mon Dec 08 18:00:47 GMT 2025
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: SCHED 100%									
Diagnostics	(NGC3109-EBU-48-G130M (78)) 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.									
	(NGC3109-EBU-48-G130M (78)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	NGC3109-EBU-48	RA: 10 02 56.2362 (150.7343175d)		V=20.0	Reference Frame: ICRS				
		Alt Name1: GAIA-DR3-5467163656055993856	Dec: -26 08 58.23 (-26.14951d)		F275W=17.77					
			Equinox: J2000							
	Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	NGC3109-E BU-48-ACQ (COS.ta.188 9999)	(10) NGC3109-EBU -48	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs)	
									[==>]	[1]
	2	NGC3109-E BU-48-G13 0M-FP3 (COS.sp.185 5177)	(10) NGC3109-EBU -48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=37 27; FLASH=YES; SEGMENT=BOTH			2100 Secs (2130 Secs)	
									[==>2130.0 Secs]	[1]
	Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2 /3 times the buffer fill time from the ETC is 4977s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 3727s to ensure that data loss does not occur if the target is indeed brighter than expected.									
	3	NGC3109-E BU-48-G13 0M-FP3 (COS.sp.185 5177)	(10) NGC3109-EBU -48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=37 27; FLASH=YES; SEGMENT=BOTH			2100 Secs (2454 Secs)	
									[==>2454.0 Secs]	[2]
	Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2 /3 times the buffer fill time from the ETC is 4977s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 3727s to ensure that data loss does not occur if the target is indeed brighter than expected.									

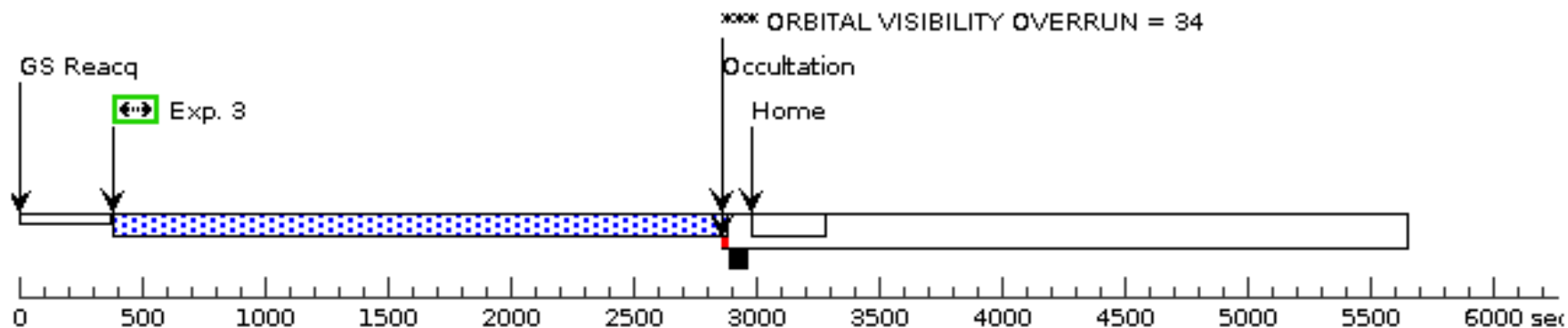
Orbit 1

Server Version: 20250929



Orbit 2

Server Version: 20250929

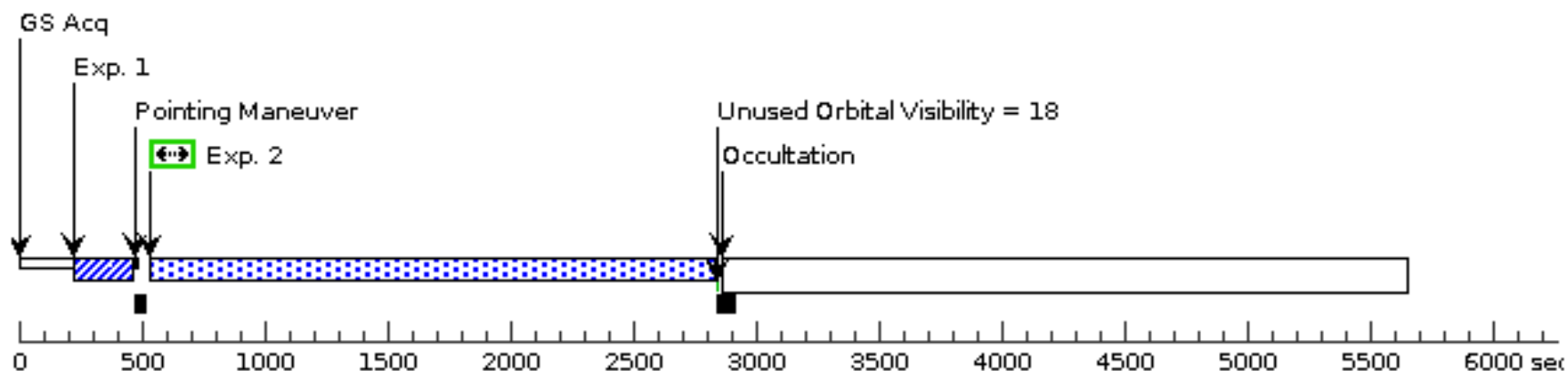


Proposal 17491 - NGC3109-EBU-48-G130M (29) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, NGC3109-EBU-48-G130M (29), completed										Mon Dec 08 18:00:47 GMT 2025
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: SCHED 100%										
Diagnostics	(NGC3109-EBU-48-G130M (29)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(NGC3109-EBU-48-G130M (29)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(10)	NGC3109-EBU-48	RA: 10 02 56.2362 (150.7343175d)		V=20.0	Reference Frame: ICRS					
		Alt Name1: GAIA-DR3-5467163656055993856	Dec: -26 08 58.23 (-26.14951d)		F275W=17.77						
			Equinox: J2000								
	Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	NGC3109-E BU-48-ACQ (COS.ta.188 9999)	(10) NGC3109-EBU -48	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs)		
									[==>]	[1]	
	2	NGC3109-E BU-48-G13 0M-FP3 (COS.sp.185 5177)	(10) NGC3109-EBU -48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=37 27; FLASH=YES; SEGMENT=BOTH			2100 Secs (2130 Secs)		
									[==>2130.0 Secs]	[1]	
	Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2 /3 times the buffer fill time from the ETC is 4977s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 3727s to ensure that data loss does not occur if the target is indeed brighter than expected.										
	3	NGC3109-E BU-48-G13 0M-FP3 (COS.sp.185 5177)	(10) NGC3109-EBU -48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=37 27; FLASH=YES; SEGMENT=BOTH			2100 Secs (2454 Secs)		
									[==>2454.0 Secs]	[2]	
	Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2 /3 times the buffer fill time from the ETC is 4977s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 3727s to ensure that data loss does not occur if the target is indeed brighter than expected.										
	4	NGC3109-E BU-48-G13 0M-FP4 (COS.sp.185 5177)	(10) NGC3109-EBU -48	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=37 27; FLASH=YES; SEGMENT=BOTH			2100 Secs (2454 Secs)		
								[==>2454.0 Secs]	[3]		
Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2 /3 times the buffer fill time from the ETC is 4977s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 3727s to ensure that data loss does not occur if the target is indeed brighter than expected.											

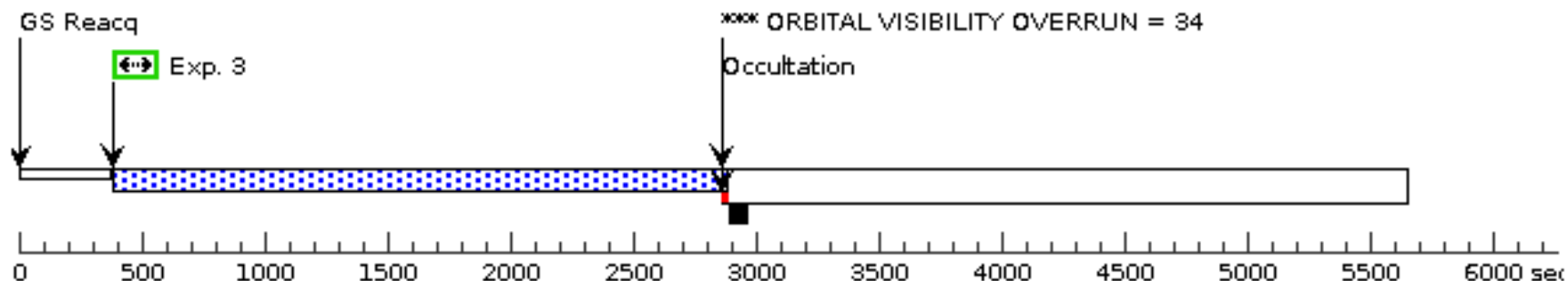
Orbit 1

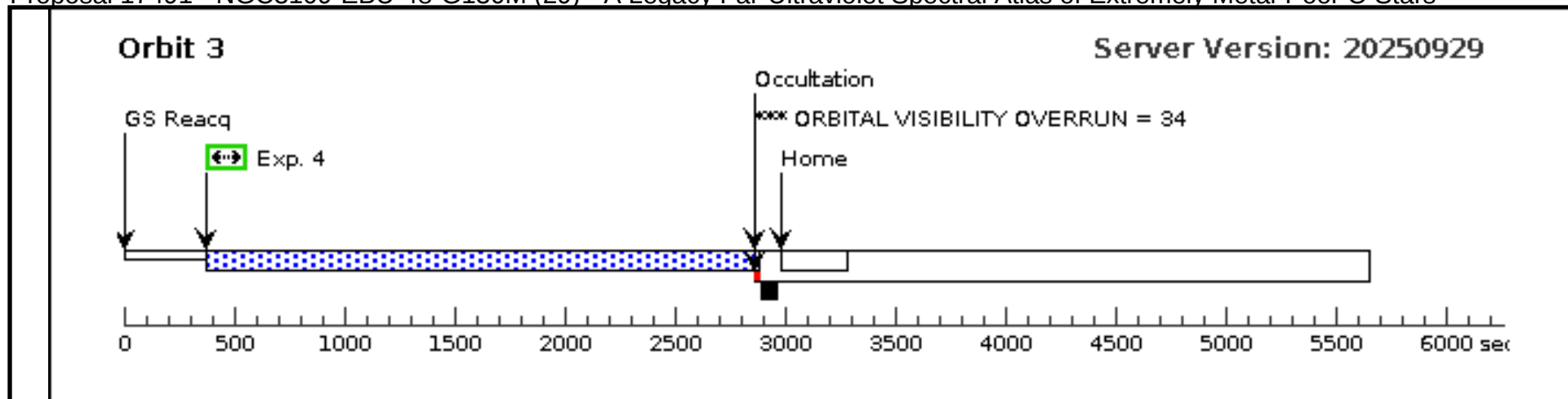
Server Version: 20250929



Orbit 2

Server Version: 20250929



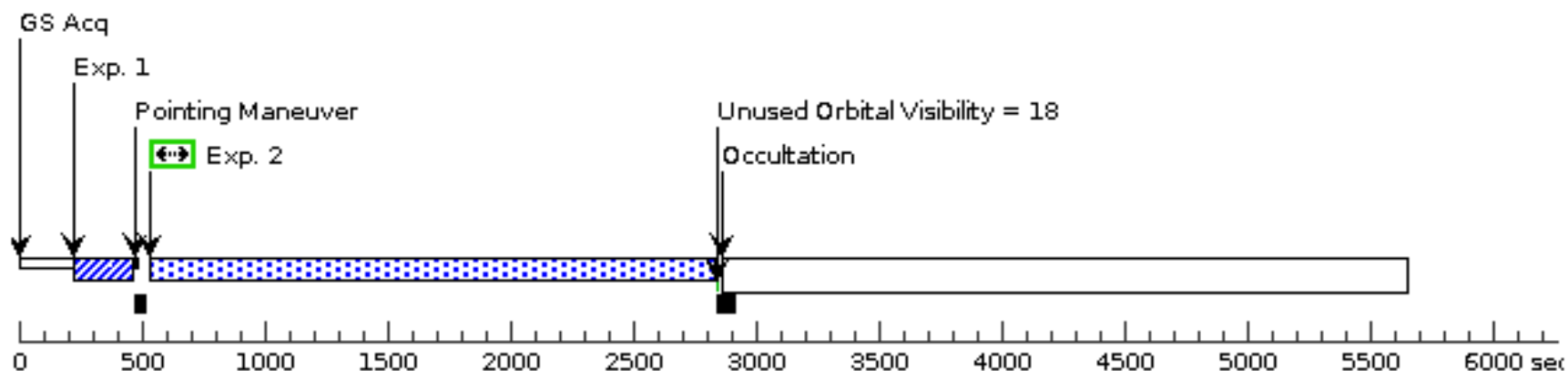


Proposal 17491 - NGC3109-EBU-48-G130M (30) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, NGC3109-EBU-48-G130M (30), completed										Mon Dec 08 18:00:47 GMT 2025	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: SCHED 100%											
Diagnostics	(NGC3109-EBU-48-G130M (30)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(NGC3109-EBU-48-G130M (30)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(10)	NGC3109-EBU-48	RA: 10 02 56.2362 (150.7343175d)				V=20.0		Reference Frame: ICRS			
		Alt Name1: GAIA-DR3-5467163656055993856	Dec: -26 08 58.23 (-26.14951d)				F275W=17.77					
			Equinox: J2000									
	Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	NGC3109-E BU-48-ACQ (COS.ta.188 9999)	(10) NGC3109-EBU -48	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				12 Secs (12 Secs)		
										[>=>]		[1]
	2	NGC3109-E BU-48-G13 0M-FP3 (COS.sp.185 5177)	(10) NGC3109-EBU -48	COS/FUV, TIME-TAG, PSA		G130M 1291 A	FP-POS=3; BUFFER-TIME=37 27; FLASH=YES; SEGMENT=BOTH			2100 Secs (2130 Secs)		
										[>=>2130.0 Secs]		[1]
	Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2 /3 times the buffer fill time from the ETC is 4977s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 3727s to ensure that data loss does not occur if the target is indeed brighter than expected.											
	3	NGC3109-E BU-48-G13 0M-FP4 (COS.sp.185 5177)	(10) NGC3109-EBU -48	COS/FUV, TIME-TAG, PSA		G130M 1291 A	FP-POS=4; BUFFER-TIME=37 27; FLASH=YES; SEGMENT=BOTH			2100 Secs (2454 Secs)		
										[>=>2454.0 Secs]		[2]
	Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2 /3 times the buffer fill time from the ETC is 4977s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 3727s to ensure that data loss does not occur if the target is indeed brighter than expected.											
	4	NGC3109-E BU-48-G13 0M-FP4 (COS.sp.185 5177)	(10) NGC3109-EBU -48	COS/FUV, TIME-TAG, PSA		G130M 1291 A	FP-POS=4; BUFFER-TIME=37 27; FLASH=YES; SEGMENT=BOTH			2100 Secs (2454 Secs)		
									[>=>2454.0 Secs]		[3]	
Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2 /3 times the buffer fill time from the ETC is 4977s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 3727s to ensure that data loss does not occur if the target is indeed brighter than expected.												

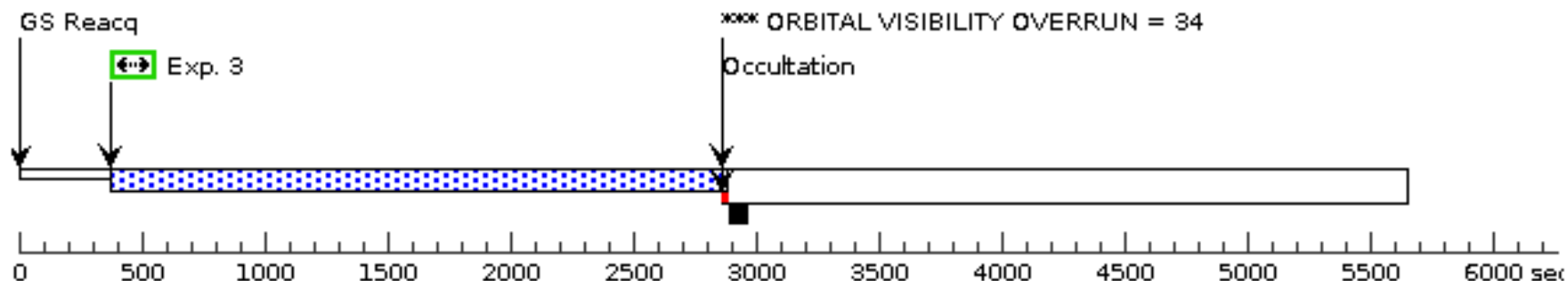
Orbit 1

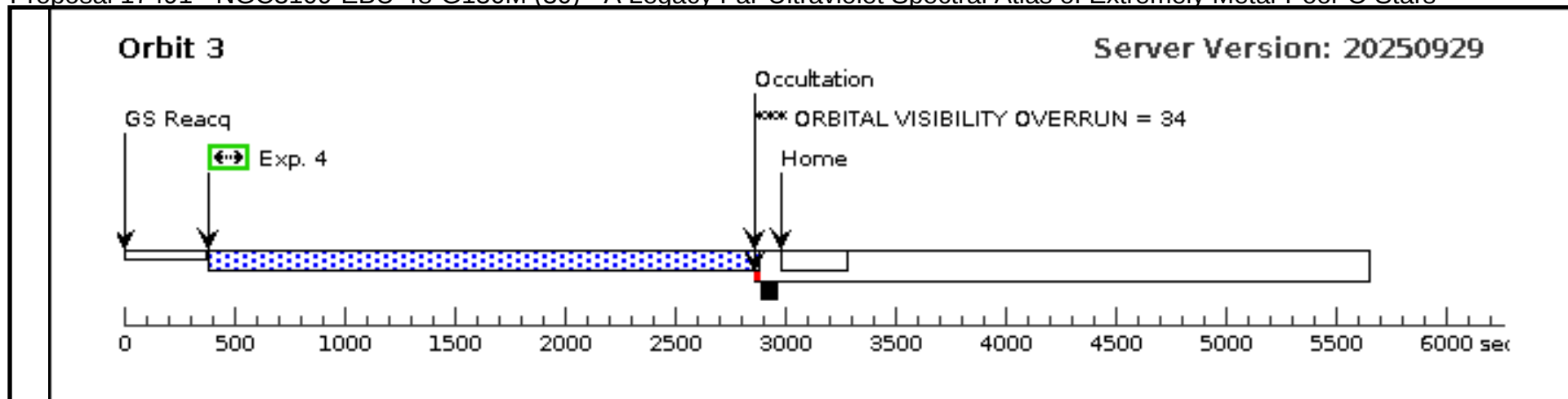
Server Version: 20250929



Orbit 2

Server Version: 20250929



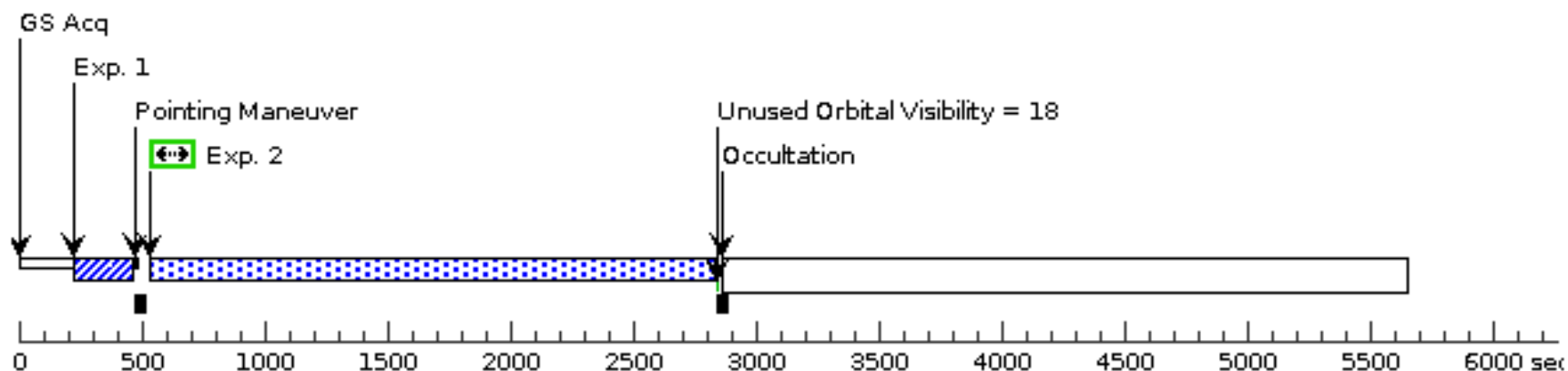


Proposal 17491 - NGC3109-EBU-48-G140L (31) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, NGC3109-EBU-48-G140L (31), failed										Mon Dec 08 18:00:47 GMT 2025
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: SCHED 100%										
Comments: All four FP-POS positions are used to observe this target, split across two visits (31 and 32).											
Diagnostics	(NGC3109-EBU-48-G140L (31)) 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.										
	(NGC3109-EBU-48-G140L (31)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(NGC3109-EBU-48-G140L (31)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(10)	NGC3109-EBU-48	RA: 10 02 56.2362 (150.7343175d)		V=20.0	Reference Frame: ICRS					
		Alt Name1: GAIA-DR3-5467163656055993856	Dec: -26 08 58.23 (-26.14951d)		F275W=17.77						
Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	NGC3109-E BU-48-ACQ (COS.ta.188 9999)	(10) NGC3109-EBU -48	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs)		
									[==>]	[1]	
	2	NGC3109-E BU-48-G14 0L-FP1 (COS.sp.185 0747)	(10) NGC3109-EBU -48	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=62 88; FLASH=YES; SEGMENT=A			2100 Secs (2093 Secs)		
									[==>2093.0 Secs]	[1]	
	Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2 /3 times the buffer fill time from the ETC is 8385s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 6288s to ensure that data loss does not occur if the target is indeed brighter than expected.										
	3	NGC3109-E BU-48-G14 0L-FP2 (COS.sp.185 0747)	(10) NGC3109-EBU -48	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=62 88; FLASH=YES; SEGMENT=A			2100 Secs (2454 Secs)		
									[==>2454.0 Secs]	[2]	
	Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2 /3 times the buffer fill time from the ETC is 8385s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 6288s to ensure that data loss does not occur if the target is indeed brighter than expected.										
	4	NGC3109-E BU-48-G14 0L-FP3 (COS.sp.185 0747)	(10) NGC3109-EBU -48	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=62 88; FLASH=YES; SEGMENT=A			2100 Secs (2454 Secs)		
								[==>2454.0 Secs]	[3]		
Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2 /3 times the buffer fill time from the ETC is 8385s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 6288s to ensure that data loss does not occur if the target is indeed brighter than expected.											

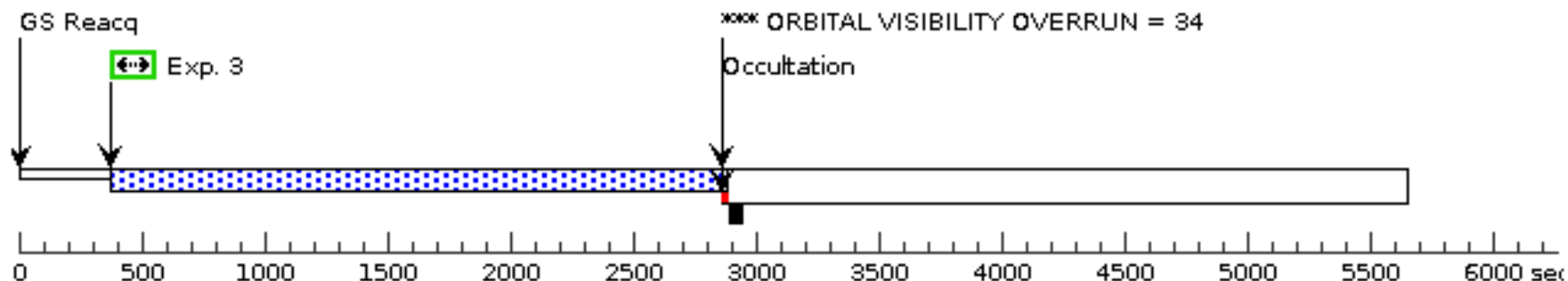
Orbit 1

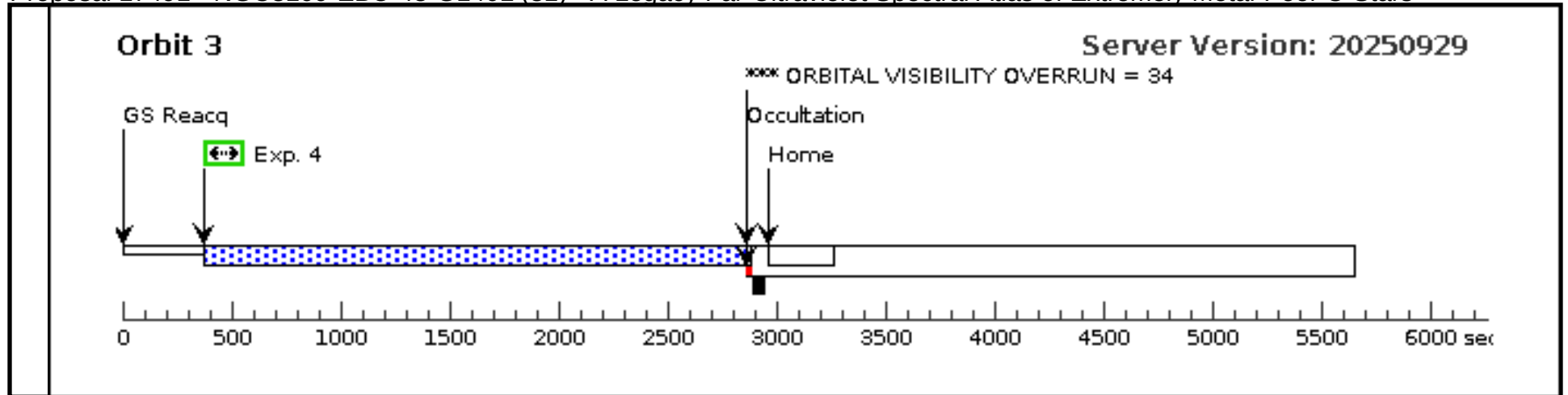
Server Version: 20250929



Orbit 2

Server Version: 20250929



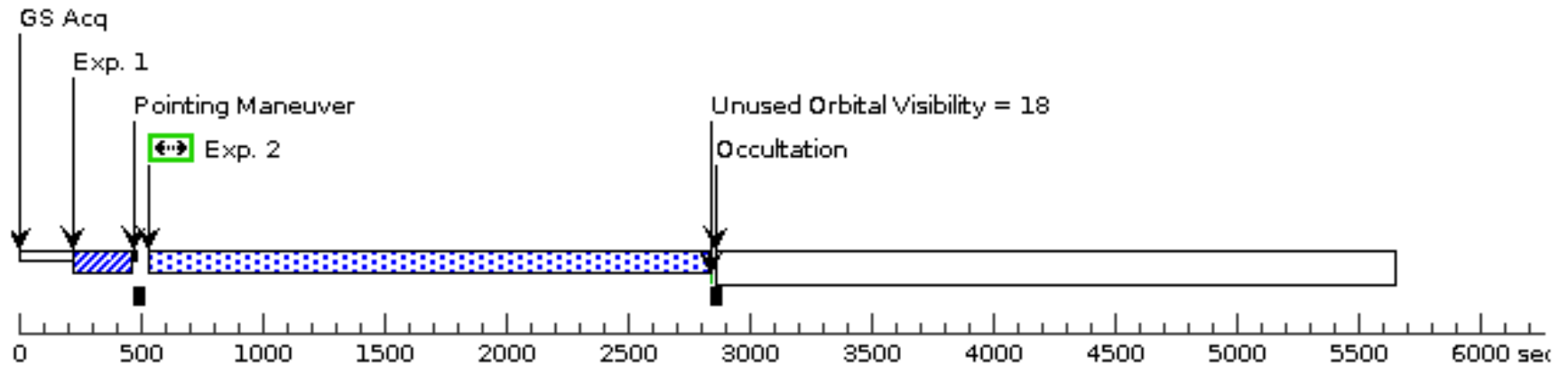


Proposal 17491 - NGC3109-EBU-48-G140L (81) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, NGC3109-EBU-48-G140L (81), completed										Mon Dec 08 18:00:47 GMT 2025
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: SCHED 100%										
Comments: All four FP-POS positions are used to observe this target, split across two visits (31 and 32).											
Diagnostics	(NGC3109-EBU-48-G140L (81)) 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.										
	(NGC3109-EBU-48-G140L (81)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(10)	NGC3109-EBU-48	RA: 10 02 56.2362 (150.7343175d)				V=20.0		Reference Frame: ICRS		
		Alt Name1: GAIA-DR3-5467163656055993856	Dec: -26 08 58.23 (-26.14951d)				F275W=17.77				
			Equinox: J2000								
Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	NGC3109-E BU-48-ACQ (COS.ta.188 9999)	(10) NGC3109-EBU -48	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs)		
									[==>]		[1]
	2	NGC3109-E BU-48-G14 0L-FP2 (COS.sp.185 0747)	(10) NGC3109-EBU -48	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=62 88; FLASH=YES; SEGMENT=A			2100 Secs (2093 Secs)		
									[==>2093.0 Secs]		[1]
	Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2 /3 times the buffer fill time from the ETC is 8385s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 6288s to ensure that data loss does not occur if the target is indeed brighter than expected.										
	3	NGC3109-E BU-48-G14 0L-FP3 (COS.sp.185 0747)	(10) NGC3109-EBU -48	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=62 88; FLASH=YES; SEGMENT=A			2100 Secs (2454 Secs)		
									[==>2454.0 Secs]		[2]
Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2 /3 times the buffer fill time from the ETC is 8385s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 6288s to ensure that data loss does not occur if the target is indeed brighter than expected.											

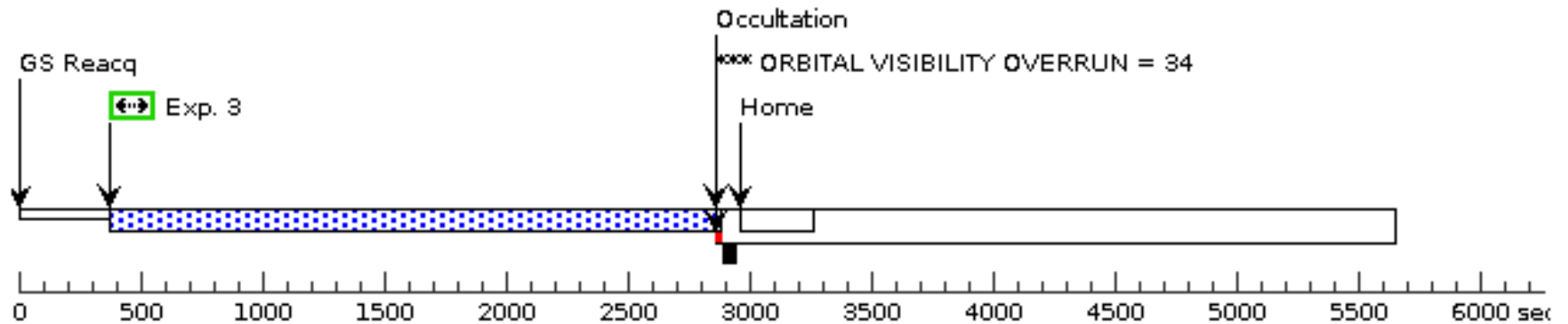
Orbit 1

Server Version: 20250929



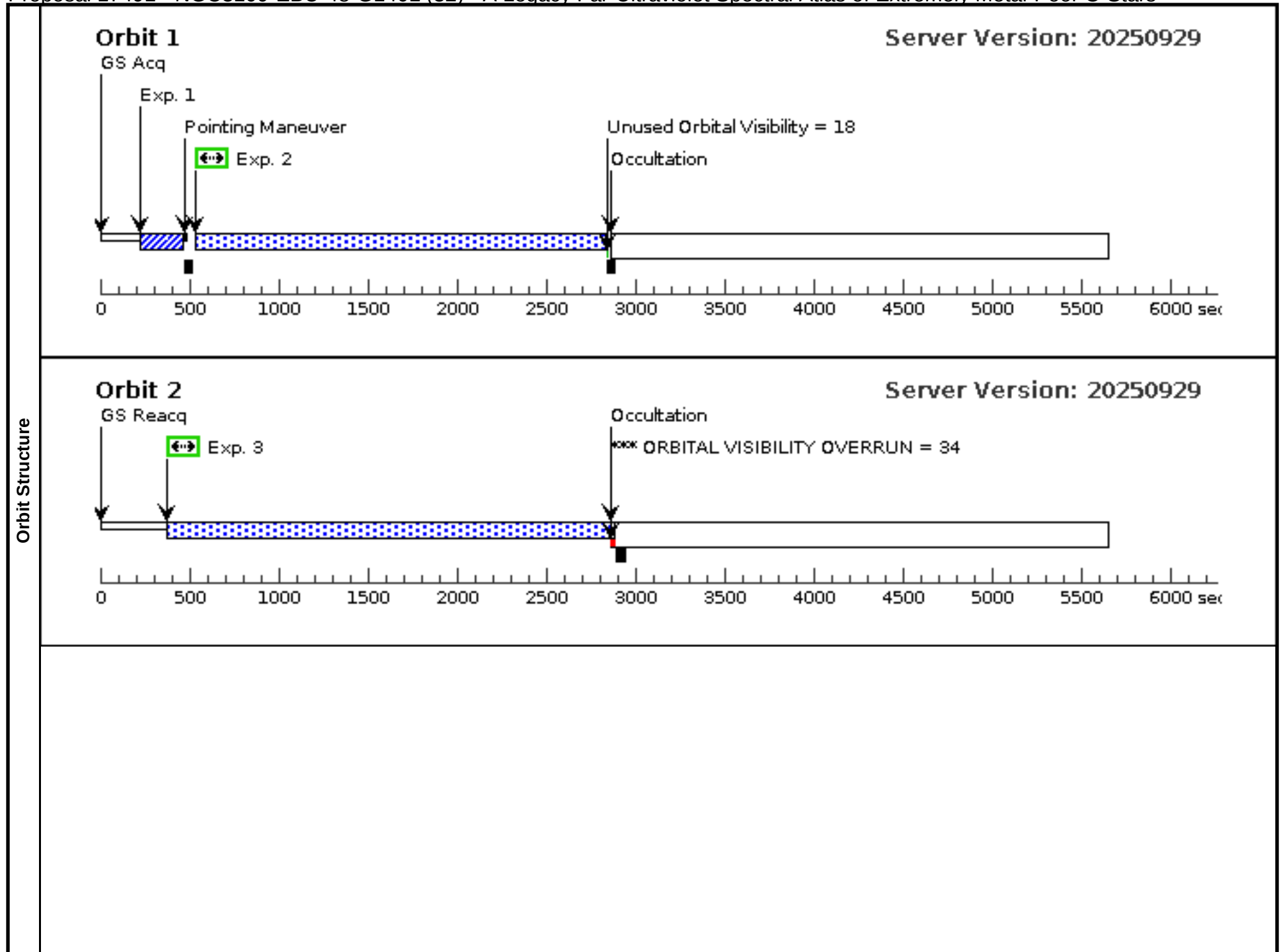
Orbit 2

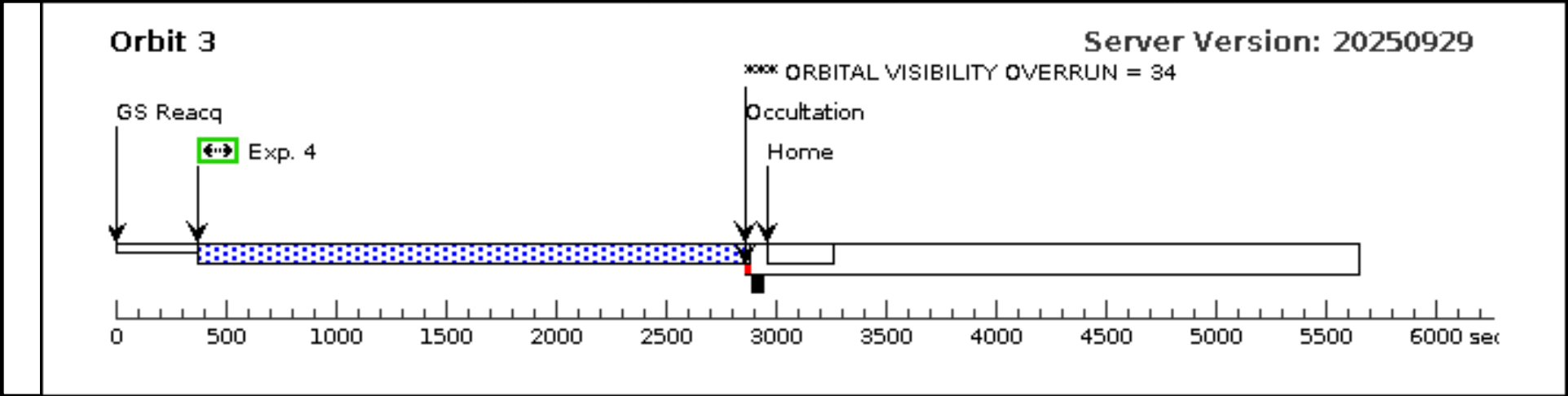
Server Version: 20250929



Proposal 17491 - NGC3109-EBU-48-G140L (32) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

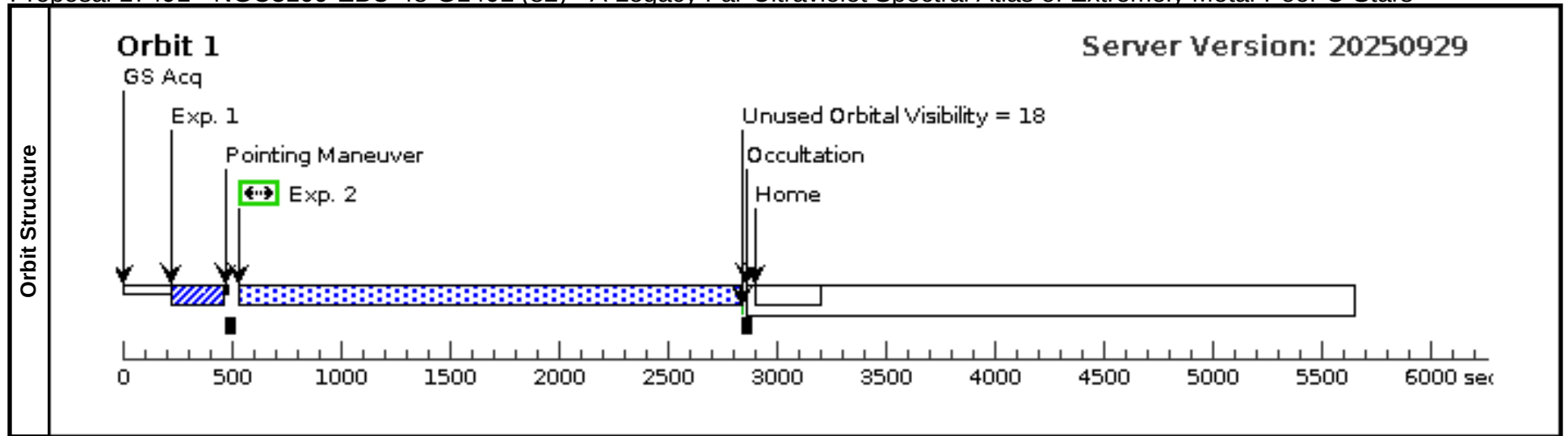
Visit	Proposal 17491, NGC3109-EBU-48-G140L (32), failed										Mon Dec 08 18:00:47 GMT 2025
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: SCHED 100%										
Comments: All four FP-POS positions are used to observe this target, split across two visits (31 and 32).											
Diagnostics	(NGC3109-EBU-48-G140L (32)) 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.										
	(NGC3109-EBU-48-G140L (32)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(NGC3109-EBU-48-G140L (32)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(10)	NGC3109-EBU-48	RA: 10 02 56.2362 (150.7343175d)		V=20.0	Reference Frame: ICRS					
		Alt Name1: GAIA-DR3-5467163656055993856	Dec: -26 08 58.23 (-26.14951d)		F275W=17.77						
Equinox: J2000											
Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	NGC3109-E BU-48-ACQ (COS.ta.188 9999)	(10) NGC3109-EBU -48	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs)		
									[==>]		[1]
	2	NGC3109-E BU-48-G14 0L-FP1 (COS.sp.185 0747)	(10) NGC3109-EBU -48	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=62 88; FLASH=YES; SEGMENT=A			2100 Secs (2093 Secs)		
									[==>2093.0 Secs]		[1]
	Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2 /3 times the buffer fill time from the ETC is 8385s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 6288s to ensure that data loss does not occur if the target is indeed brighter than expected.										
	3	NGC3109-E BU-48-G14 0L-FP3 (COS.sp.185 0747)	(10) NGC3109-EBU -48	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=62 88; FLASH=YES; SEGMENT=A			2100 Secs (2454 Secs)		
									[==>2454.0 Secs]		[2]
	Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2 /3 times the buffer fill time from the ETC is 8385s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 6288s to ensure that data loss does not occur if the target is indeed brighter than expected.										
	4	NGC3109-E BU-48-G14 0L-FP4 (COS.sp.185 0747)	(10) NGC3109-EBU -48	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=62 88; FLASH=YES; SEGMENT=A			2100 Secs (2454 Secs)		
								[==>2454.0 Secs]		[3]	
Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2 /3 times the buffer fill time from the ETC is 8385s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 6288s to ensure that data loss does not occur if the target is indeed brighter than expected.											





Proposal 17491 - NGC3109-EBU-48-G140L (82) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, NGC3109-EBU-48-G140L (82), completed							Mon Dec 08 18:00:47 GMT 2025		
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: SCHED 100%									
Comments: All four FP-POS positions are used to observe this target, split across two visits (31 and 32).										
Diagnostics	(NGC3109-EBU-48-G140L (82)) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	NGC3109-EBU-48	RA: 10 02 56.2362 (150.7343175d)		V=20.0	Reference Frame: ICRS				
		Alt Name1: GAIA-DR3-5467163656055993856	Dec: -26 08 58.23 (-26.14951d)		F275W=17.77					
			Equinox: J2000							
Comments: Category=EXT-STAR Description=[SUPERGIANT O] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	NGC3109-E BU-48-ACQ (COS.ta.188 9999)	(10) NGC3109-EBU -48	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs)	
									[==>]	[1]
	2	NGC3109-E BU-48-G14 0L-FP3 (COS.sp.185 0747)	(10) NGC3109-EBU -48	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=62 88; FLASH=YES; SEGMENT=A			2100 Secs (2093 Secs)	
									[==>2093.0 Secs]	[1]
Comments: This target's early spectral type is not well matched to any of the Bruzual template spectra in the COS ETC, so the actual count rate might be higher than the ETC value. The BUFFER-TIME computed as 2 /3 times the buffer fill time from the ETC is 8385s, but we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 6288s to ensure that data loss does not occur if the target is indeed brighter than expected.										

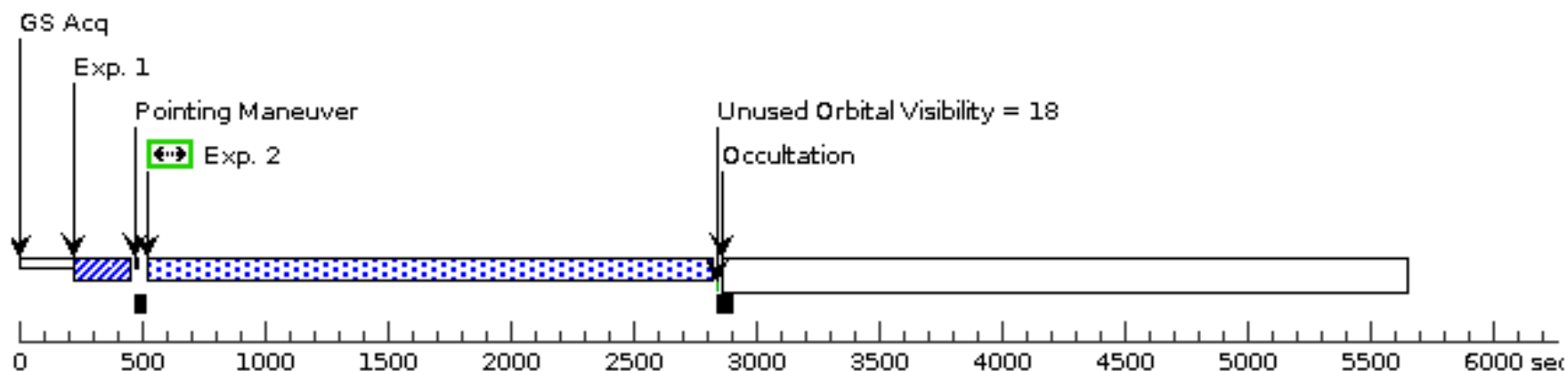


Proposal 17491 - NGC3109-1-G130M (33) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, NGC3109-1-G130M (33), failed								Mon Dec 08 18:00:47 GMT 2025	
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: SCHED 100%									
Diagnostics	(NGC3109-1-G130M (33)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(NGC3109-1-G130M (33)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(11)	NGC3109-1	RA: 10 03 1.3400 (150.7555833d)			V=20.0		Reference Frame: ICRS		
		Alt Name1: GAIA-DR3-5467163484255694336	Dec: -26 08 38.06 (-26.14391d)			F275W=17.73				
			Equinox: J2000							
	Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	NGC3109-1-ACQ (COS.ta.1890000)	(11) NGC3109-1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				10 Secs (10 Secs)	
									[>=>]	[1]
	2	NGC3109-1-G130M-FP3 (COS.sp.1855183)	(11) NGC3109-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=4741; FLASH=YES; SEGMENT=BOTH			2100 Secs (2134 Secs)	
									[>=>2134.0 Secs]	[1]
	3	NGC3109-1-G130M-FP3 (COS.sp.1855183)	(11) NGC3109-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=4741; FLASH=YES; SEGMENT=BOTH			2100 Secs (2454 Secs)	
									[>=>2454.0 Secs]	[2]
4	NGC3109-1-G130M-FP4 (COS.sp.1855183)	(11) NGC3109-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=4741; FLASH=YES; SEGMENT=BOTH			2100 Secs (2454 Secs)		
								[>=>2454.0 Secs]	[3]	

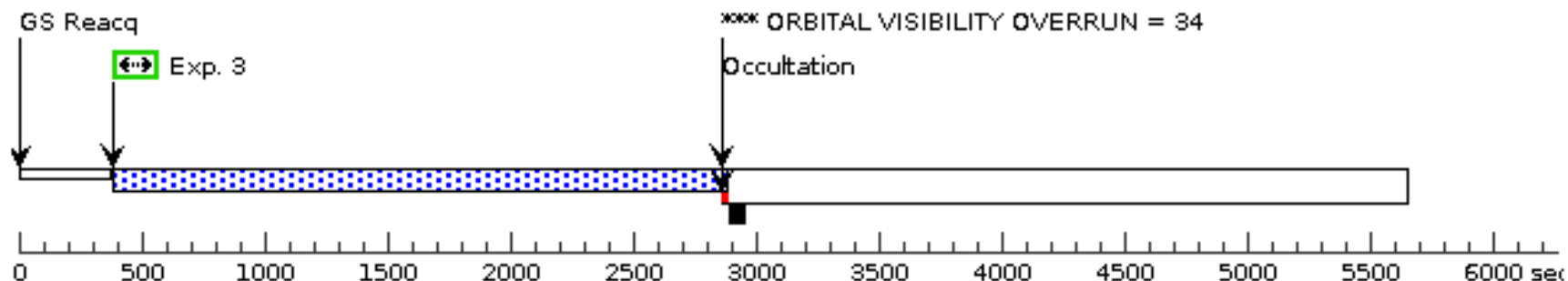
Orbit 1

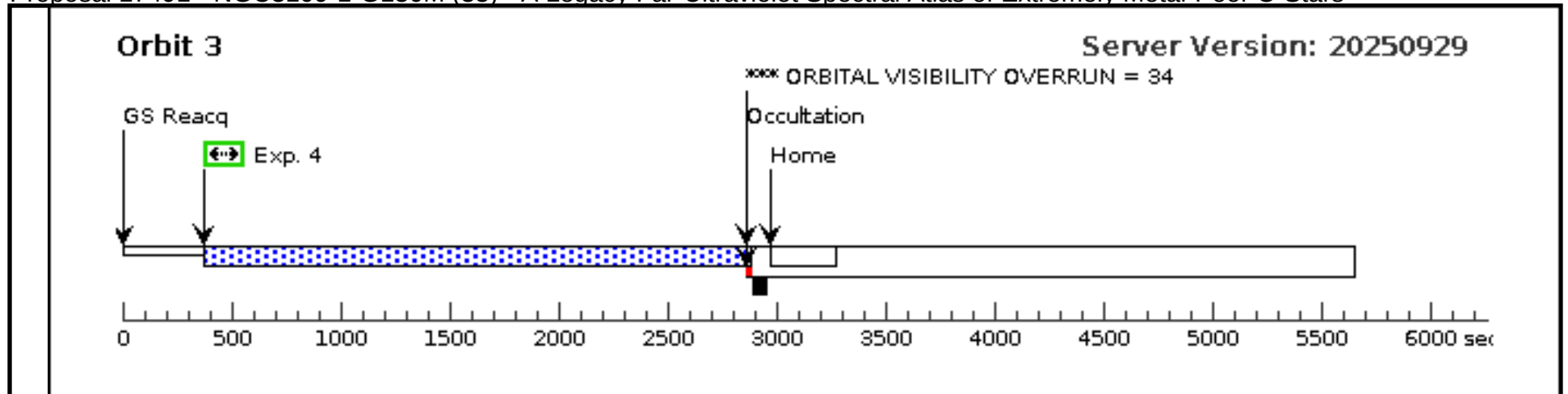
Server Version: 20250929



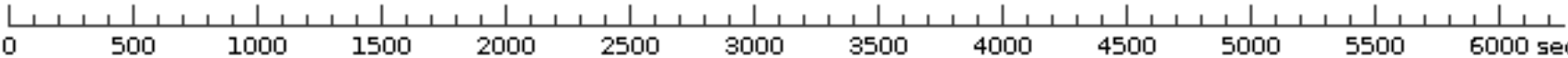
Orbit 2

Server Version: 20250929





Proposal 17491 - NGC3109-1-G130M (83) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

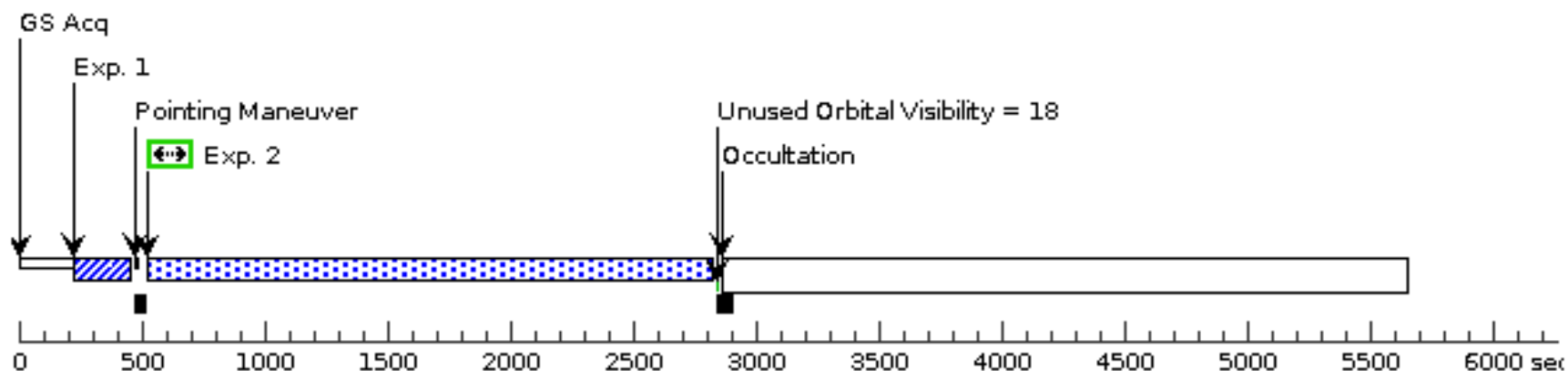
Visit	Proposal 17491, NGC3109-1-G130M (83), implementation										Mon Dec 08 18:00:47 GMT 2025
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: SCHED 100%										
Diagnostics	(NGC3109-1-G130M (83)) Warning (Form): For the best data quality, 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.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(11)	NGC3109-1 Alt Name1: GAIA-DR3-5467163484255694336	RA: 10 03 1.3400 (150.7555833d) Dec: -26 08 38.06 (-26.14391d) Equinox: J2000				V=20.0 F275W=17.73		Reference Frame: ICRS		
Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	NGC3109-1 -ACQ (COS.ta.189 0000)	(11) NGC3109-1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				10 Secs (10 Secs) [==>]		[1]
	2	NGC3109-1 -G130M-FP 3 (COS.sp.185 5183)	(11) NGC3109-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=47 41; FLASH=YES; SEGMENT=BOTH			2100 Secs (2152 Secs) [==>2152.0 Secs]		[1]
Orbit Structure	Orbit 1 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Occultation Unused Orbital Visibility = 0 Home										
	Server Version: 20250929 										

Proposal 17491 - NGC3109-1-G130M (34) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, NGC3109-1-G130M (34), completed								Mon Dec 08 18:00:47 GMT 2025	
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: SCHED 100%									
Diagnostics	(NGC3109-1-G130M (34)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(NGC3109-1-G130M (34)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	NGC3109-1	RA: 10 03 1.3400 (150.7555833d)		V=20.0	Reference Frame: ICRS				
		Alt Name1: GAIA-DR3-5467163484255694336	Dec: -26 08 38.06 (-26.14391d)		F275W=17.73					
			Equinox: J2000							
	Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	NGC3109-1-ACQ (COS.ta.189 0000)	(11) NGC3109-1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				10 Secs (10 Secs)	
									[==>]	[1]
	2	NGC3109-1-G130M-FP 3 (COS.sp.185 5183)	(11) NGC3109-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=47 41; FLASH=YES; SEGMENT=BOTH			2100 Secs (2134 Secs)	
									[==>2134.0 Secs]	[1]
	3	NGC3109-1-G130M-FP 4 (COS.sp.185 5183)	(11) NGC3109-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=47 41; FLASH=YES; SEGMENT=BOTH			2100 Secs (2454 Secs)	
									[==>2454.0 Secs]	[2]
	4	NGC3109-1-G130M-FP 4 (COS.sp.185 5183)	(11) NGC3109-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=47 41; FLASH=YES; SEGMENT=BOTH			2100 Secs (2454 Secs)	
								[==>2454.0 Secs]	[3]	

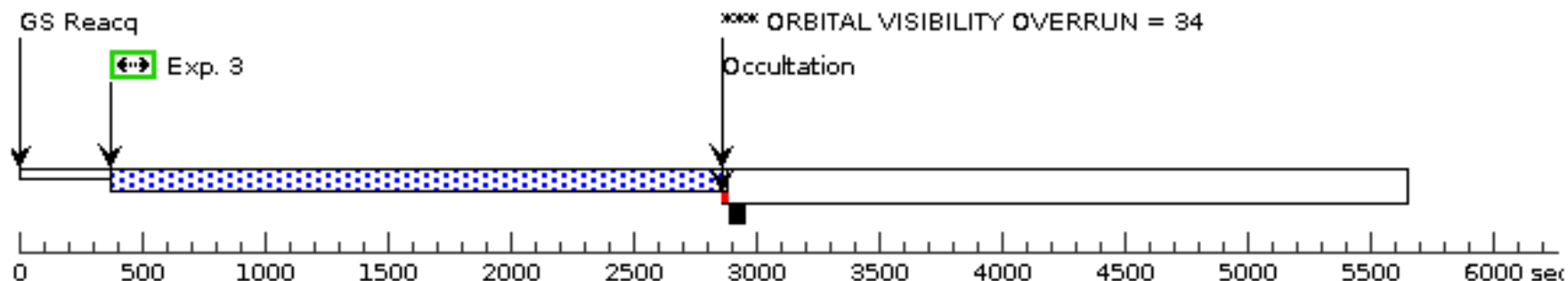
Orbit 1

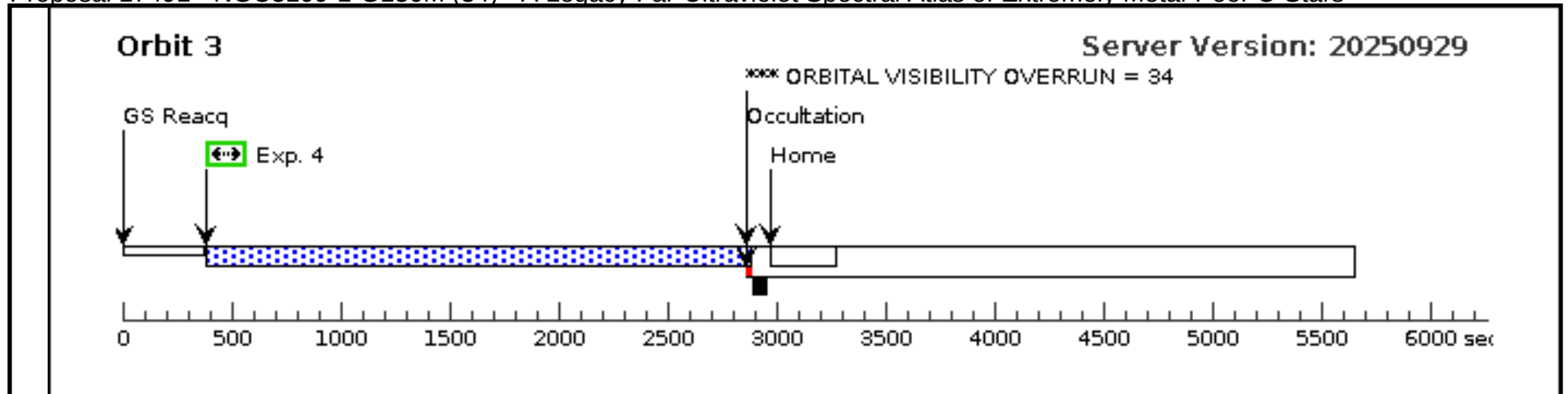
Server Version: 20250929



Orbit 2

Server Version: 20250929



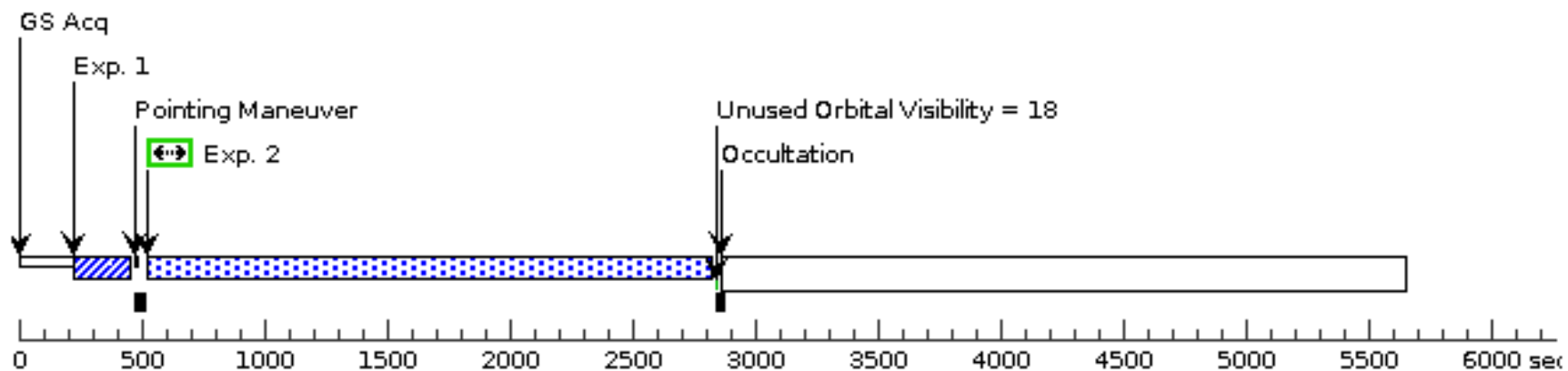


Proposal 17491 - NGC3109-1-G140L (35) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, NGC3109-1-G140L (35), completed										Mon Dec 08 18:00:47 GMT 2025
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: SCHED 100%										
Comments: All four FP-POS positions are used to observe this target, split across two visits (35 and 36).											
Diagnostics	(NGC3109-1-G140L (35)) 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.										
	(NGC3109-1-G140L (35)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(11)	NGC3109-1 Alt Name1: GAIA-DR3-5467163484255694336	RA: 10 03 1.3400 (150.7555833d) Dec: -26 08 38.06 (-26.14391d) Equinox: J2000		V=20.0 F275W=17.73	Reference Frame: ICRS					
Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	NGC3109-1-ACQ (COS.ta.189 0000)	(11) NGC3109-1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				10 Secs (10 Secs)		
									[==>]		[1]
	2	NGC3109-1-G140L-FP1 (COS.sp.185 0733)	(11) NGC3109-1	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=94 61; FLASH=YES; SEGMENT=A			2100 Secs (2097 Secs)		
									[==>2097.0 Secs]		[1]
	Comments: The BUFFER-TIME computed as 2/3 times the buffer fill time from the ETC is 12615s, but this is a much higher value than the BUFFER-TIMES used in this proposal for targets of similar (or fainter) brightness and spectral type. Thus, we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 9461s to ensure that data loss does not occur.										
3	NGC3109-1-G140L-FP2 (COS.sp.185 0733)	(11) NGC3109-1	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=94 61; FLASH=YES; SEGMENT=A			2100 Secs (2454 Secs)			
								[==>2454.0 Secs]		[2]	
Comments: The BUFFER-TIME computed as 2/3 times the buffer fill time from the ETC is 12615s, but this is a much higher value than the BUFFER-TIMES used in this proposal for targets of similar (or fainter) brightness and spectral type. Thus, we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 9461s to ensure that data loss does not occur.											

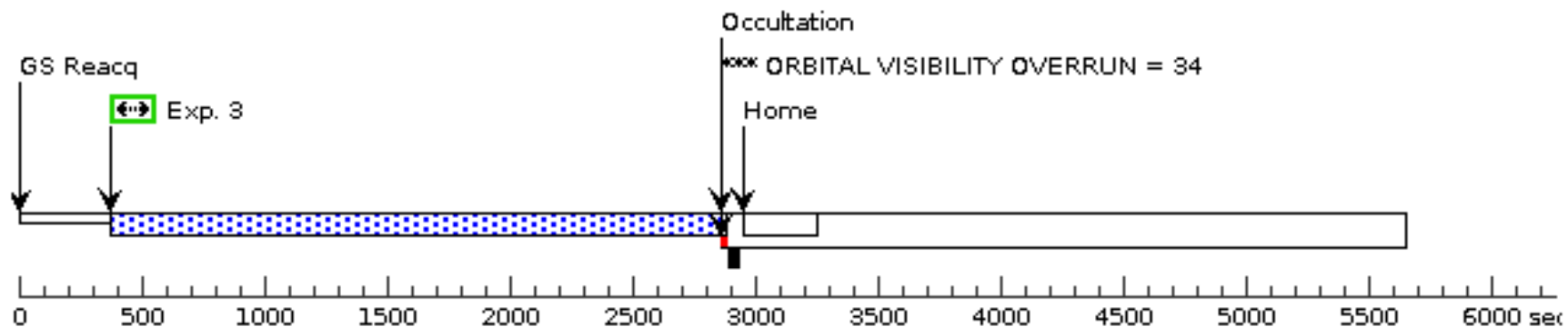
Orbit 1

Server Version: 20250929



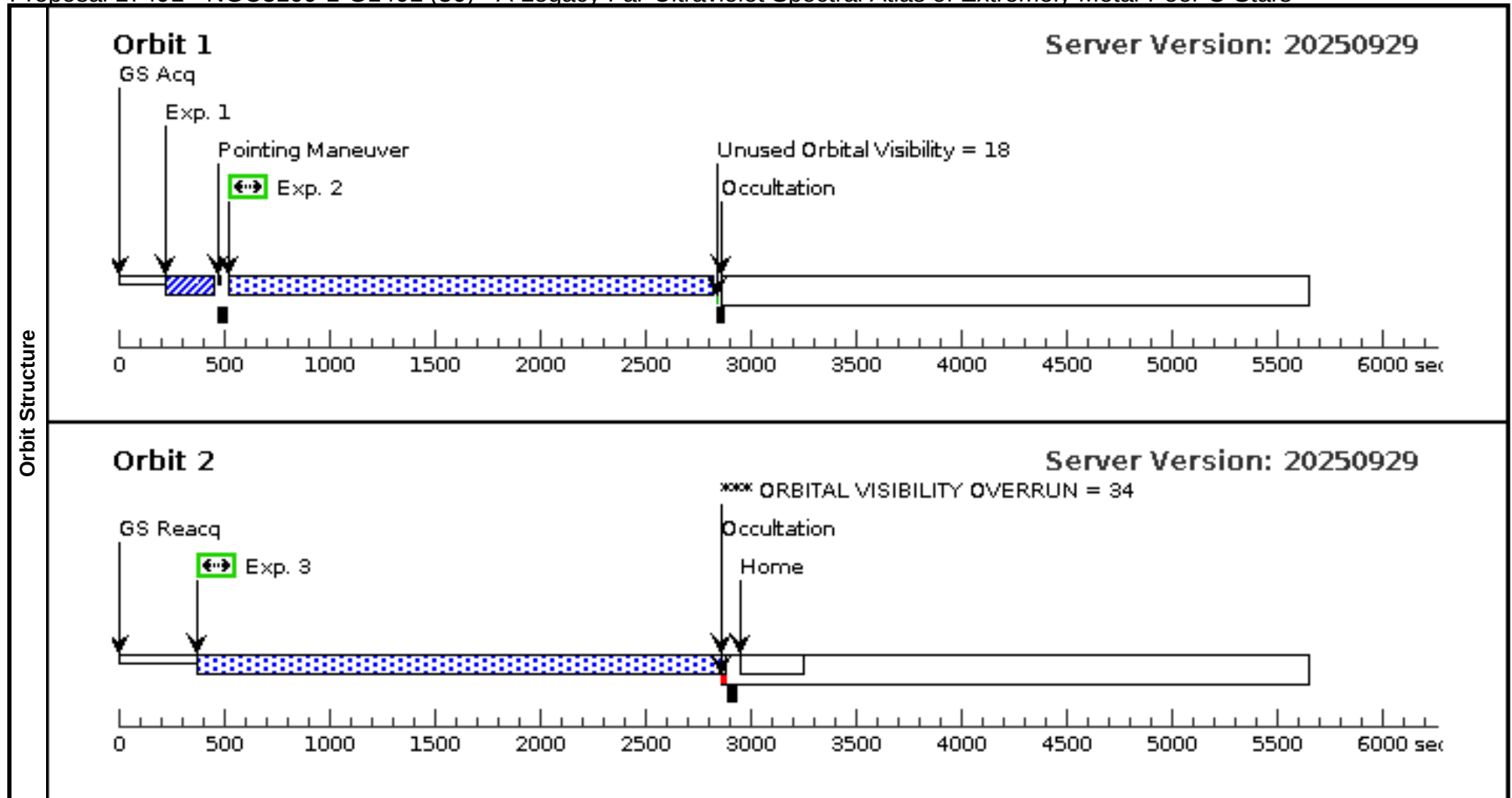
Orbit 2

Server Version: 20250929



Proposal 17491 - NGC3109-1-G140L (36) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, NGC3109-1-G140L (36), completed										Mon Dec 08 18:00:47 GMT 2025
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: SCHED 100%										
Comments: All four FP-POS positions are used to observe this target, split across two visits (35 and 36).											
Diagnostics	(NGC3109-1-G140L (36)) 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.										
	(NGC3109-1-G140L (36)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(11)	NGC3109-1	RA: 10 03 1.3400 (150.7555833d)		V=20.0	Reference Frame: ICRS					
		Alt Name1: GAIA-DR3-5467163484255694336	Dec: -26 08 38.06 (-26.14391d)		F275W=17.73						
			Equinox: J2000								
Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	NGC3109-1-ACQ (COS.ta.189 0000)	(11) NGC3109-1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				10 Secs (10 Secs)		
									[==>]		[1]
	2	NGC3109-1-G140L-FP3 (COS.sp.185 0733)	(11) NGC3109-1	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=94 61; FLASH=YES; SEGMENT=A			2100 Secs (2097 Secs)		
									[==>2097.0 Secs]		[1]
	Comments: The BUFFER-TIME computed as 2/3 times the buffer fill time from the ETC is 12615s, but this is a much higher value than the BUFFER-TIMES used in this proposal for targets of similar (or fainter) brightness and spectral type. Thus, we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 9461s to ensure that data loss does not occur.										
	3	NGC3109-1-G140L-FP4 (COS.sp.185 0733)	(11) NGC3109-1	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=94 61; FLASH=YES; SEGMENT=A			2100 Secs (2454 Secs)		
									[==>2454.0 Secs]		[2]
	Comments: The BUFFER-TIME computed as 2/3 times the buffer fill time from the ETC is 12615s, but this is a much higher value than the BUFFER-TIMES used in this proposal for targets of similar (or fainter) brightness and spectral type. Thus, we elect to scale the ETC value by 1/2 to obtain a more conservative BUFFER-TIME of 9461s to ensure that data loss does not occur.										

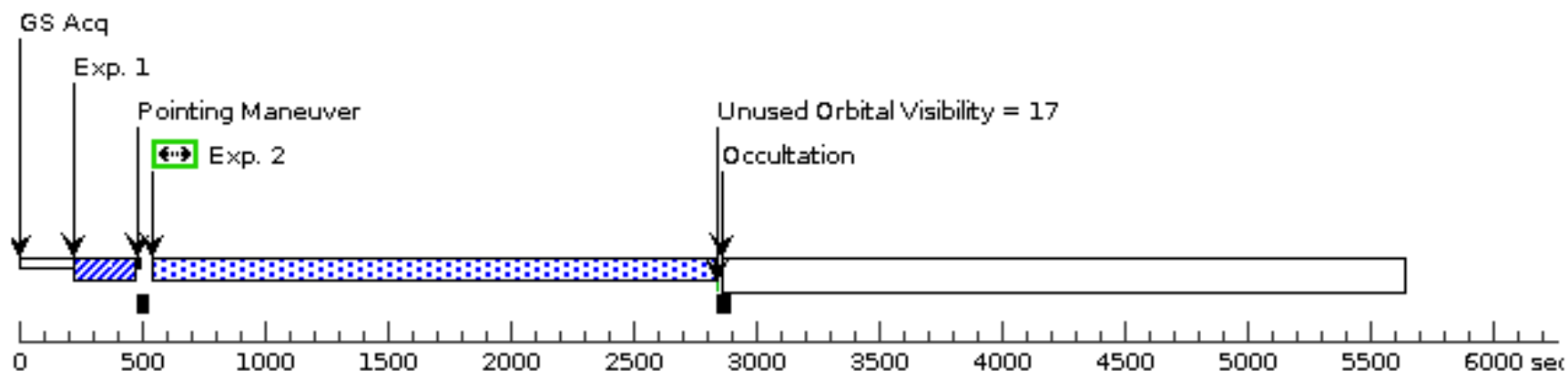


Proposal 17491 - WLM-1-G130M (37) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, WLM-1-G130M (37), completed Mon Dec 08 18:00:47 GMT 2025									
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%									
Diagnostics	(WLM-1-G130M (37)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(WLM-1-G130M (37)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(12)	WLM-1 Alt Name1: J000200.05-152954.1 Alt Name2: GAIA-DR3-2415883271088197760 Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO	RA: 00 02 0.0625 (-5002604d) Dec: -15 29 54.64 (-15.49851d) Equinox: J2000			V=20.6 F275W=18.23		Reference Frame: ICRS		
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WLM-1-AC Q (COS.ta.189 0001)	(12) WLM-1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				15.3 Secs (15.3 Secs) [==>]	[1]
	2	WLM-1-G1 30M-FP3 (COS.sp.185 5189)	(12) WLM-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=50 03; FLASH=YES; SEGMENT=BOTH			2100 Secs (2125 Secs) [==>2125.0 Secs]	[1]
	3	WLM-1-G1 30M-FP3 (COS.sp.185 5189)	(12) WLM-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=50 03; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs) [==>2457.0 Secs]	[2]
	4	WLM-1-G1 30M-FP4 (COS.sp.185 5189)	(12) WLM-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=50 03; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs) [==>2457.0 Secs]	[3]

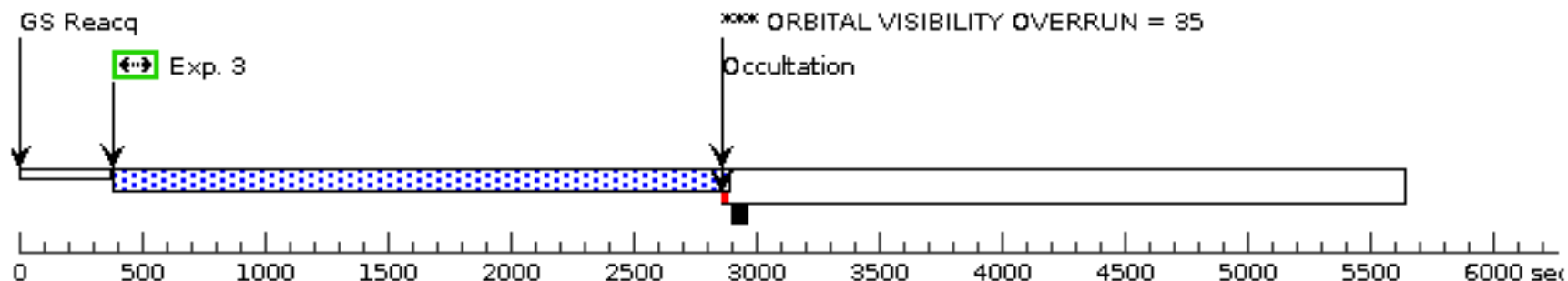
Orbit 1

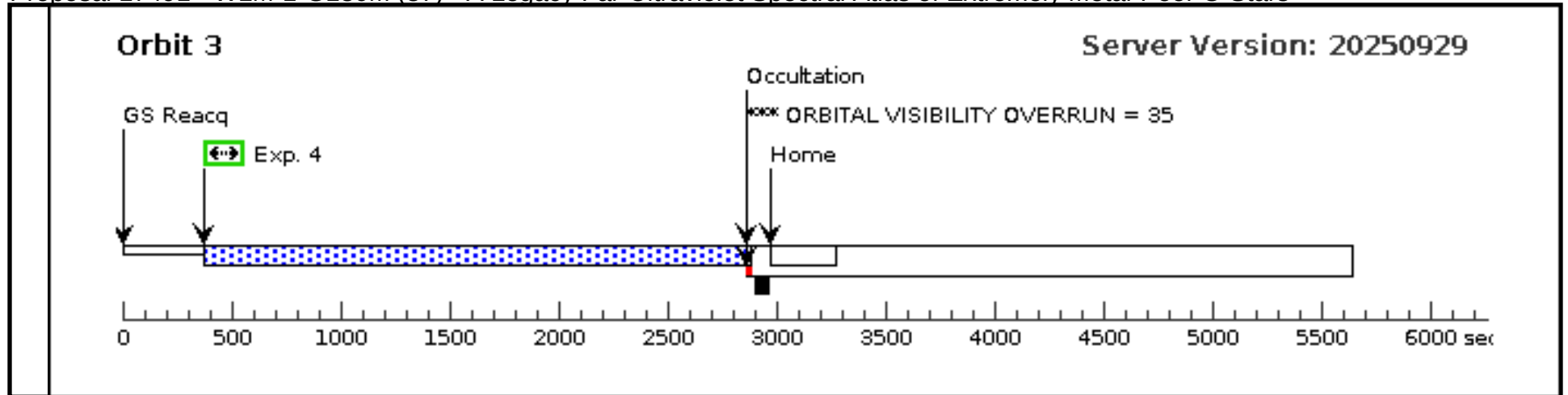
Server Version: 20250929



Orbit 2

Server Version: 20250929



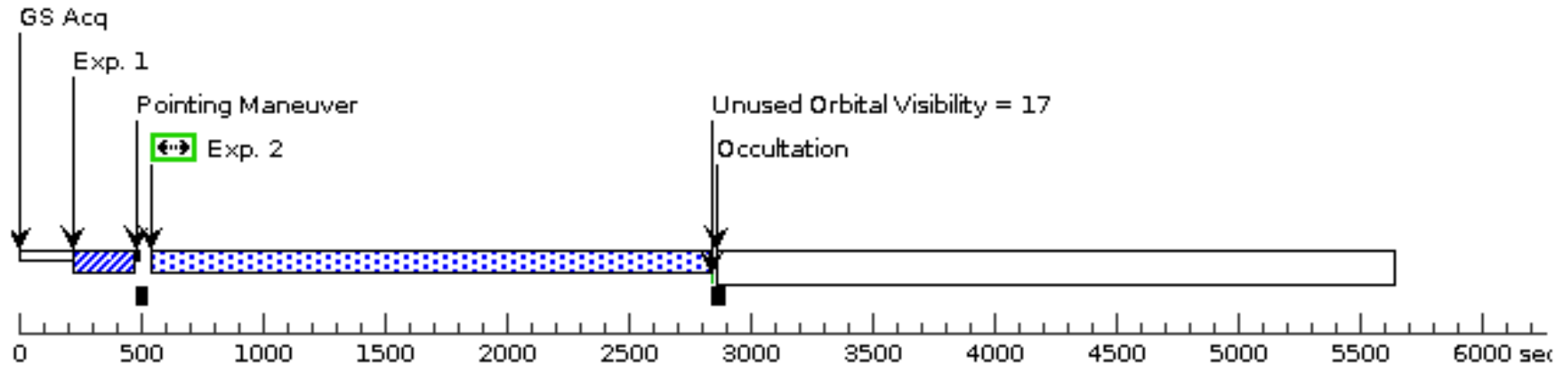


Proposal 17491 - WLM-1-G130M (38) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, WLM-1-G130M (38), completed Mon Dec 08 18:00:47 GMT 2025									
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%									
Diagnostics	(WLM-1-G130M (38)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(WLM-1-G130M (38)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	WLM-1 Alt Name1: J000200.05-152954.1 Alt Name2: GAIA-DR3-2415883271088197760 Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO	RA: 00 02 0.0625 (-5002604d) Dec: -15 29 54.64 (-15.49851d) Equinox: J2000		V=20.6 F275W=18.23	Reference Frame: ICRS				
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WLM-1-AC Q (COS.ta.189 0001)	(12) WLM-1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				15.3 Secs (15.3 Secs) [==>]	[1]
	2	WLM-1-G1 30M-FP3 (COS.sp.185 5189)	(12) WLM-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=50 03; FLASH=YES; SEGMENT=BOTH			2100 Secs (2125 Secs) [==>2125.0 Secs]	[1]
	3	WLM-1-G1 30M-FP4 (COS.sp.185 5189)	(12) WLM-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=50 03; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs) [==>2457.0 Secs]	[2]
	4	WLM-1-G1 30M-FP4 (COS.sp.185 5189)	(12) WLM-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=50 03; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs) [==>2457.0 Secs]	[3]

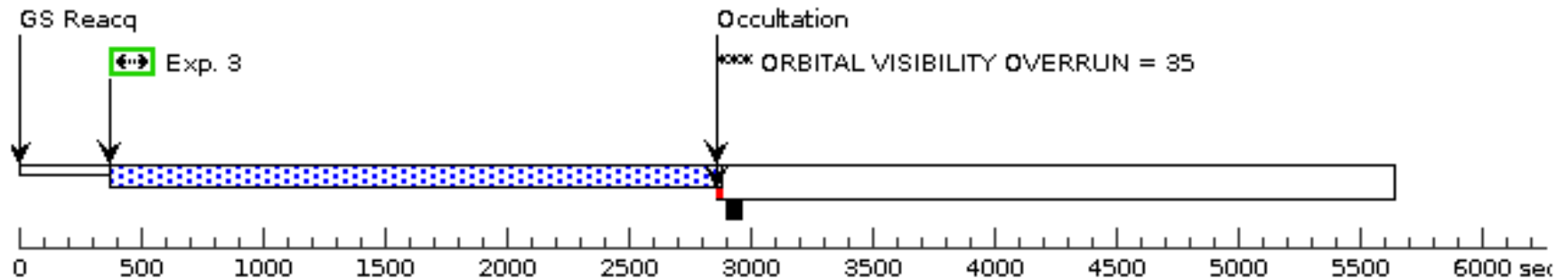
Orbit 1

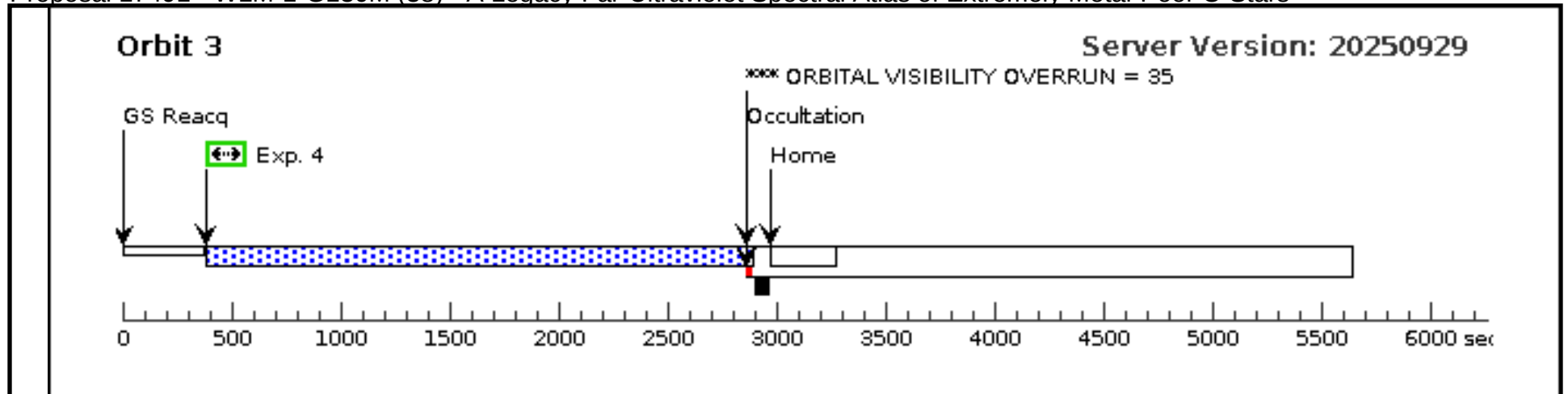
Server Version: 20250929



Orbit 2

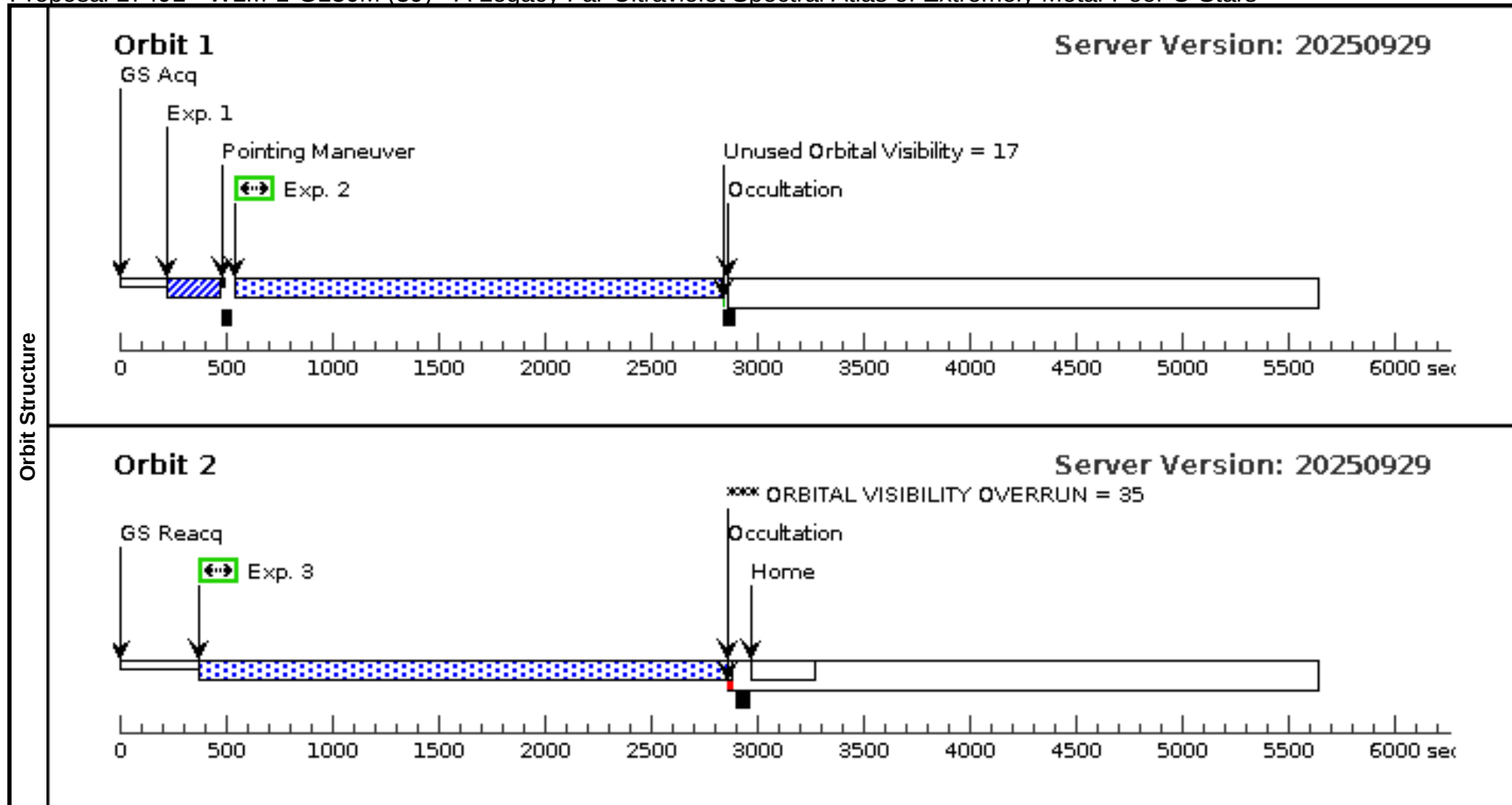
Server Version: 20250929





Proposal 17491 - WLM-1-G130M (39) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, WLM-1-G130M (39), completed Mon Dec 08 18:00:47 GMT 2025									
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%									
Diagnostics	(WLM-1-G130M (39)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(12)	WLM-1 Alt Name1: J000200.05-152954.1 Alt Name2: GAIA-DR3-2415883271088197760 Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO	RA: 00 02 0.0625 (.5002604d) Dec: -15 29 54.64 (-15.49851d) Equinox: J2000			V=20.6 F275W=18.23		Reference Frame: ICRS		
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WLM-1-AC Q (COS.ta.189 0001)	(12) WLM-1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				15.3 Secs (15.3 Secs) [==>]	[1]
	2	WLM-1-G1 30M-FP3 (COS.sp.185 5189)	(12) WLM-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=50 03; FLASH=YES; SEGMENT=BOTH			2100 Secs (2125 Secs) [==>2125.0 Secs]	[1]
	3	WLM-1-G1 30M-FP4 (COS.sp.185 5189)	(12) WLM-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=50 03; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs) [==>2457.0 Secs]	[2]

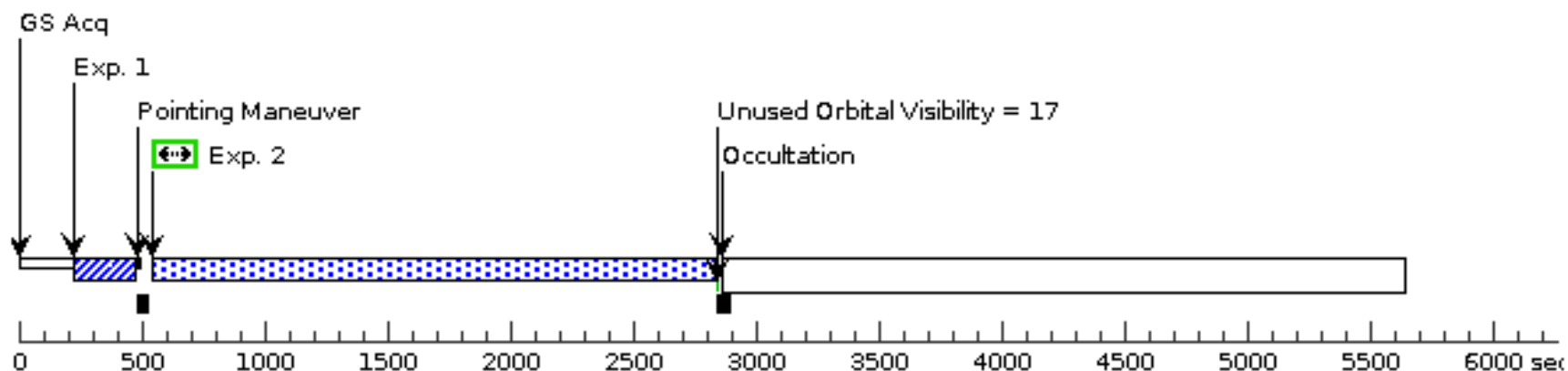


Proposal 17491 - WLM-1-G130M (40) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, WLM-1-G130M (40), completed Mon Dec 08 18:00:47 GMT 2025									
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%									
Diagnos	(WLM-1-G130M (40)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous		
	(12)	WLM-1 Alt Name1: J000200.05-152954.1 Alt Name2: GAIA-DR3-2415883271088197760 Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO	RA: 00 02 0.0625 (.5002604d) Dec: -15 29 54.64 (-15.49851d) Equinox: J2000				V=20.6 F275W=18.23	Reference Frame: ICRS		
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WLM-1-AC Q (COS.ta.189 0001)	(12) WLM-1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				15.3 Secs (15.3 Secs) [==>]	[1]
	2	WLM-1-G1 30M-FP3 (COS.sp.185 5189)	(12) WLM-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=50 03; FLASH=YES; SEGMENT=BOTH			2100 Secs (2125 Secs) [==>2125.0 Secs]	[1]
	3	WLM-1-G1 30M-FP4 (COS.sp.185 5189)	(12) WLM-1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=50 03; FLASH=YES; SEGMENT=BOTH			2100 Secs (2457 Secs) [==>2457.0 Secs]	[2]

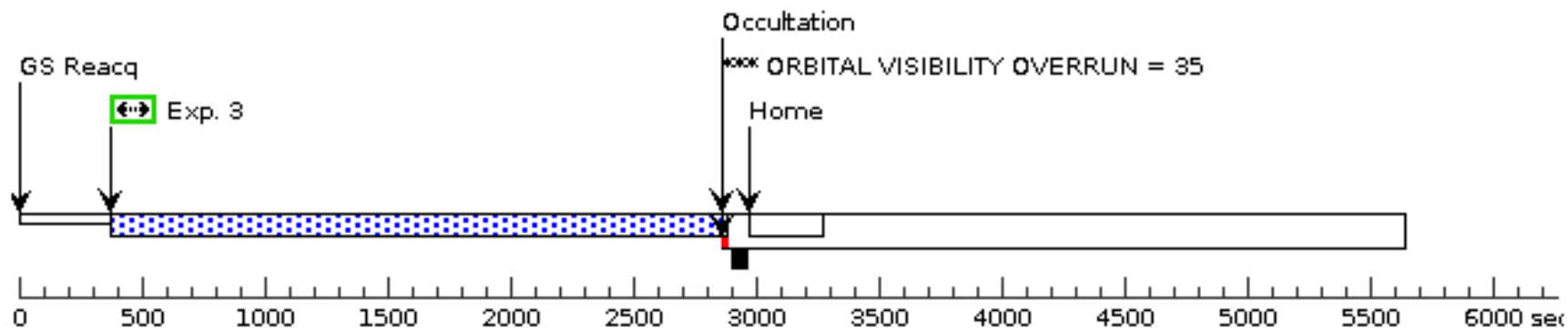
Orbit 1

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Orbit 2

Server Version: 20250929

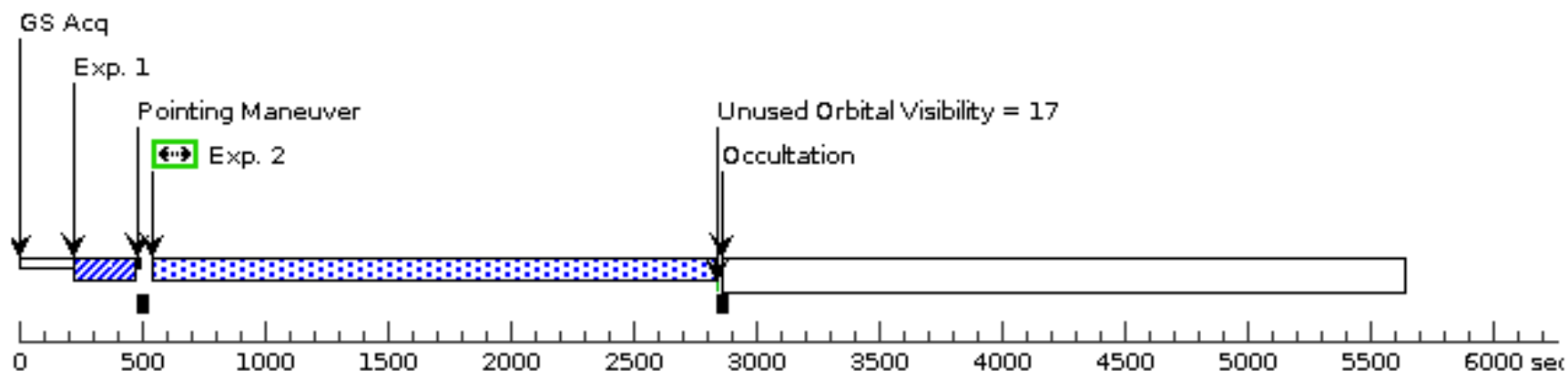


Proposal 17491 - WLM-1-G140L (41) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, WLM-1-G140L (41), completed Mon Dec 08 18:00:48 GMT 2025									
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100% <i>Comments: All four FP-POS positions are used to observe this target, split across two visits (41 and 42).</i>									
Diagnostics	(WLM-1-G140L (41)) 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. (WLM-1-G140L (41)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WLM-1-G140L (41)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	WLM-1 Alt Name1: J000200.05-152954.1 Alt Name2: GAIA-DR3-2415883271088197760 <i>Comments:</i> <i>Category=EXT-STAR</i> <i>Description=[MAIN SEQUENCE O]</i> <i>Extended=NO</i>	RA: 00 02 0.0625 (.5002604d) Dec: -15 29 54.64 (-15.49851d) Equinox: J2000		V=20.6 F275W=18.23	Reference Frame: ICRS				
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WLM-1-AC Q (COS.ta.189 0001)	(12) WLM-1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				15.3 Secs (15.3 Secs) [==>]	[1]
	2	WLM-1-G1 40L-FP1 (COS.sp.185 0753)	(12) WLM-1	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=84 63; FLASH=YES; SEGMENT=A			2100 Secs (2088 Secs) [==>2088.0 Secs]	[1]
	3	WLM-1-G1 40L-FP2 (COS.sp.185 0753)	(12) WLM-1	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=84 63; FLASH=YES; SEGMENT=A			2100 Secs (2457 Secs) [==>2457.0 Secs]	[2]
	4	WLM-1-G1 40L-FP3 (COS.sp.185 0753)	(12) WLM-1	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=84 63; FLASH=YES; SEGMENT=A			2100 Secs (2457 Secs) [==>2457.0 Secs]	[3]

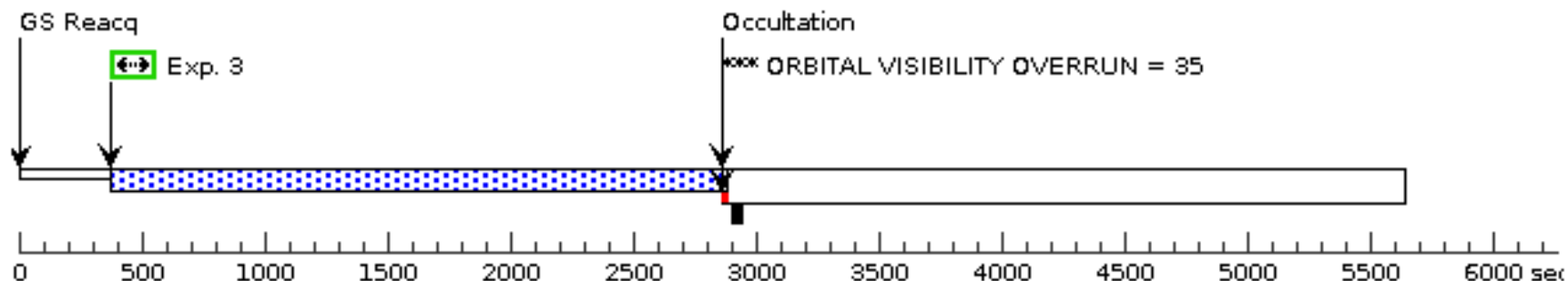
Orbit 1

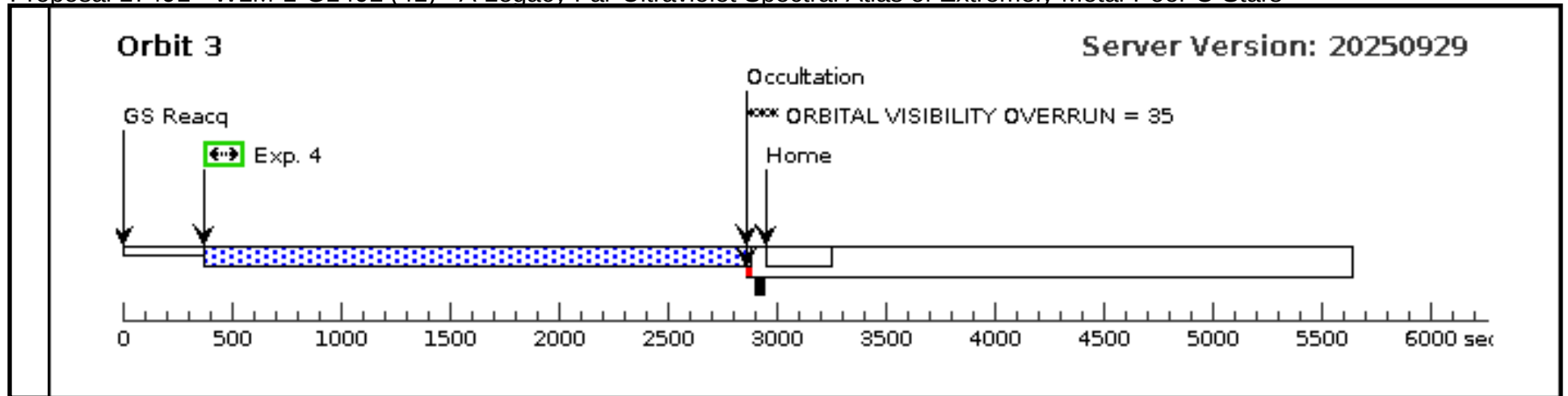
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Orbit 2

Server Version: 20250929



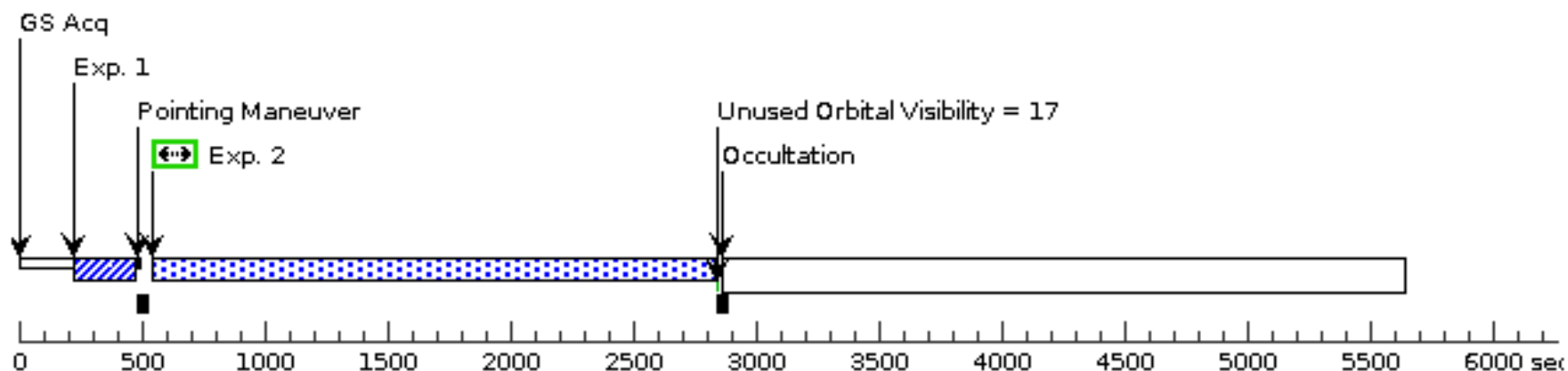


Proposal 17491 - WLM-1-G140L (42) - A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars

Visit	Proposal 17491, WLM-1-G140L (42), completed Mon Dec 08 18:00:48 GMT 2025									
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100% <i>Comments: All four FP-POS positions are used to observe this target, split across two visits (41 and 42).</i>									
Diagnostics	(WLM-1-G140L (42)) 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. (WLM-1-G140L (42)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WLM-1-G140L (42)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	WLM-1 Alt Name1: J000200.05-152954.1 Alt Name2: GAIA-DR3-2415883271088197760 <i>Comments:</i> <i>Category=EXT-STAR</i> <i>Description=[MAIN SEQUENCE O]</i> <i>Extended=NO</i>	RA: 00 02 0.0625 (.5002604d) Dec: -15 29 54.64 (-15.49851d) Equinox: J2000		V=20.6 F275W=18.23	Reference Frame: ICRS				
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WLM-1-AC Q (COS.ta.189 0001)	(12) WLM-1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				15.3 Secs (15.3 Secs) [==>]	[1]
	2	WLM-1-G1 40L-FP1 (COS.sp.185 0753)	(12) WLM-1	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=84 63; FLASH=YES; SEGMENT=A			2100 Secs (2088 Secs) [==>2088.0 Secs]	[1]
	3	WLM-1-G1 40L-FP3 (COS.sp.185 0753)	(12) WLM-1	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=84 63; FLASH=YES; SEGMENT=A			2100 Secs (2457 Secs) [==>2457.0 Secs]	[2]
	4	WLM-1-G1 40L-FP4 (COS.sp.185 0753)	(12) WLM-1	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=84 63; FLASH=YES; SEGMENT=A			2100 Secs (2457 Secs) [==>2457.0 Secs]	[3]

Orbit 1

Server Version: 20250929



Orbit 2

Server Version: 20250929

