



17106 - A Novel View of Local Star-Forming Galaxies With COS

Cycle: 30, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

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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) NGC-1705	COS/FUV COS/NUV	1	20-Dec-2024 10:00:13.0	yes
02	(2) IRAS-08339+6517	COS/FUV COS/NUV	2	20-Dec-2024 10:00:13.0	yes
56	(2) IRAS-08339+6517	COS/FUV COS/NUV	2	20-Dec-2024 10:00:14.0	yes

Proposal 17106 (STScI Edit Number: 4, Created: Friday, December 20, 2024, 10:00:27AM Eastern Standard Time) - Overview

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
03	(2) IRAS-08339+6517	COS/FUV COS/NUV	4	20-Dec-2024 10:00:15.0	yes
04	(3) UGCA-166	COS/FUV COS/NUV	4	20-Dec-2024 10:00:15.0	yes
05	(3) UGCA-166	COS/FUV COS/NUV	4	20-Dec-2024 10:00:16.0	yes
06	(3) UGCA-166	COS/FUV COS/NUV	2	20-Dec-2024 10:00:17.0	yes
07	(4) NGC-3991	COS/FUV COS/NUV	3	20-Dec-2024 10:00:17.0	yes
08	(4) NGC-3991	COS/FUV COS/NUV	3	20-Dec-2024 10:00:18.0	yes
09	(5) NGC-4214	COS/FUV COS/NUV	2	20-Dec-2024 10:00:19.0	yes
10	(6) NGC-4449	COS/FUV COS/NUV	3	20-Dec-2024 10:00:20.0	yes
11	(6) NGC-4449	COS/FUV COS/NUV	3	20-Dec-2024 10:00:21.0	yes
12	(7) NGC-5236	COS/FUV COS/NUV	2	20-Dec-2024 10:00:22.0	yes
13	(8) NGC-5253	COS/FUV COS/NUV	3	20-Dec-2024 10:00:23.0	yes
14	(8) NGC-5253	COS/FUV COS/NUV	3	20-Dec-2024 10:00:23.0	yes
25	(9) NGC-7714	COS/FUV COS/NUV	4	20-Dec-2024 10:00:24.0	yes
51	(6) NGC-4449	COS/FUV COS/NUV	3	20-Dec-2024 10:00:25.0	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>
52	(4) NGC-3991	COS/FUV COS/NUV	1	20-Dec-2024 10:00:25.0	yes
53	(6) NGC-4449	COS/FUV COS/NUV	1	20-Dec-2024 10:00:26.0	yes
54	(8) NGC-5253	COS/FUV COS/NUV	1	20-Dec-2024 10:00:26.0	yes
55	(8) NGC-5253	COS/FUV COS/NUV	3	20-Dec-2024 10:00:27.0	yes

54 Total Orbits Used

ABSTRACT

We propose COS G130M (1096) observations of nine ultraviolet-bright star-forming galaxies lacking HST spectroscopy in the 950 - 1150 Å wavelength regime. Our strategy is a dual approach to unveil the complex star formation histories of these galaxies which have archival large-aperture FUSE and longer-wavelength COS spectroscopy. Extending the existing COS coverage down to 950 Å yields (i) panchromatic COS spectroscopy with matching apertures, and (ii) same-wavelength spectroscopy with large (FUSE) and small (COS) apertures. The galaxies were selected to cover a representative range of morphology, luminosity, chemical composition and distance. The new data will open a new spectroscopic window that has not been explored in detail with HST. Comparison with FUSE spectra will allow a study of the scales of star formation over areas differing by factors of 150. The 950 - 1150 Å wavelength region contains stellar and interstellar spectral lines complementing and expanding the diagnostics at longer wavelengths. In particular, the strong O VI 1035 doublet with an ionization potential of 114 eV probes the highest energies powered by stellar winds. We will test and calibrate this line as a tracer of massive stars. In combination with available HST and other data we will investigate the star-formation history, the kinematics of the interstellar medium, and the effects of dust attenuation, including the reddening law down to near the Lyman break.

OBSERVING DESCRIPTION

We will use COS with the G130M (1096) grating to collect $R = 10,000$ spectra of the nine target galaxies in the wavelength range $\sim 950 - 1230$ Å. The 17 Å gap at 1090 Å does not affect any of the strategic lines to be observed, in particular the O VI 1035 doublet, which is redshifted by less than 20 Å in all galaxies. The 1096 setting has recently been fully calibrated, and its internal accuracy is comparable to those of other wavelength settings.

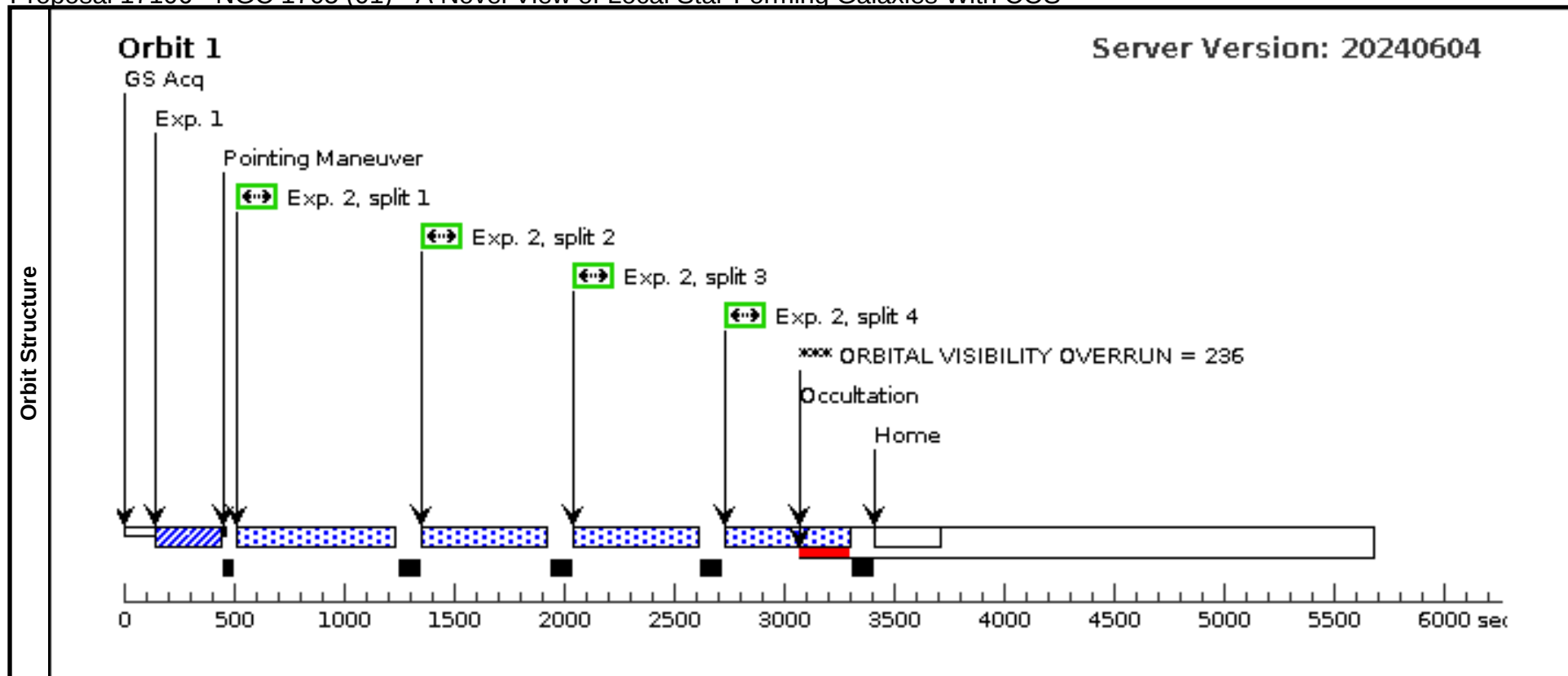
The acquisition images of previous observations of the targets with COS at longer wavelengths give constraints on the expected morphologies inside the PSA. The galaxies are typically characterized by a central cluster and surrounded by several fainter star-formation regions. For the purpose of the target acquisition, they are essentially point sources, and the COS resolution will only mildly be degraded.

We will take advantage of the existing archival COS data and adopt an identical acquisition strategy, including the previously used target coordinates. The targets will be acquired with either MIRROR-A or MIRROR-B, depending on brightness. No target exceeds the brightness limit for MIRROR-B. We will use ACQ/IMAGE in all cases. Prior FUSE and COS fluxes are readily available and permit a risk-free prediction of the orbit requirement. Inspection of the FUSE spectra indicates that Milky Way foreground absorption lines of H₂ will not be an issue. The differences in the FUSE and COS fluxes in columns 2 and 3 are exclusively due to the different aperture sizes. The galaxy spectra are essentially flat between 1050 and 1150 Å. Therefore we adopt the observed COS 1150 Å fluxes as the expected flux in the COS aperture at 1050 Å. NGC 5236 and NGC 5253 have archival COS data for multiple clusters in these galaxies. We will target the brightest cluster in each galaxy, and the fluxes refer to this cluster.

We require a minimum S/N of 5 at ~1040 Å, the wavelength of O VI, which is a strong line. This wavelength is recorded on COS Segment B. The COS sensitivity rises dramatically longward of 1100 Å, where Segment A is used. With Segment A, the expected S/N will be about 40, as required for the much fainter wind and photospheric lines. The S/N on both segments will allow us to analyze the strong stellar-wind profiles as well as the weak photospheric lines and compare them with population synthesis models, measure the outflow properties of the ISM from interstellar absorption lines, and determine the dust properties from the continuum shape. The corresponding exposure times are listed in column 4 of Table 2. They were obtained using the COS ETC with the Identifiers in column 5. In column 6 of this table we list the required orbits. This includes allowance for overheads and assumes the orbit lengths as reported by APT. IRAS 08339+6517 is located in the CVZ. We request CVZ observations for this galaxy, which reduces the non-CVZ request from 8 to 5 orbits. The total request for all nine galaxies is 42 orbits.

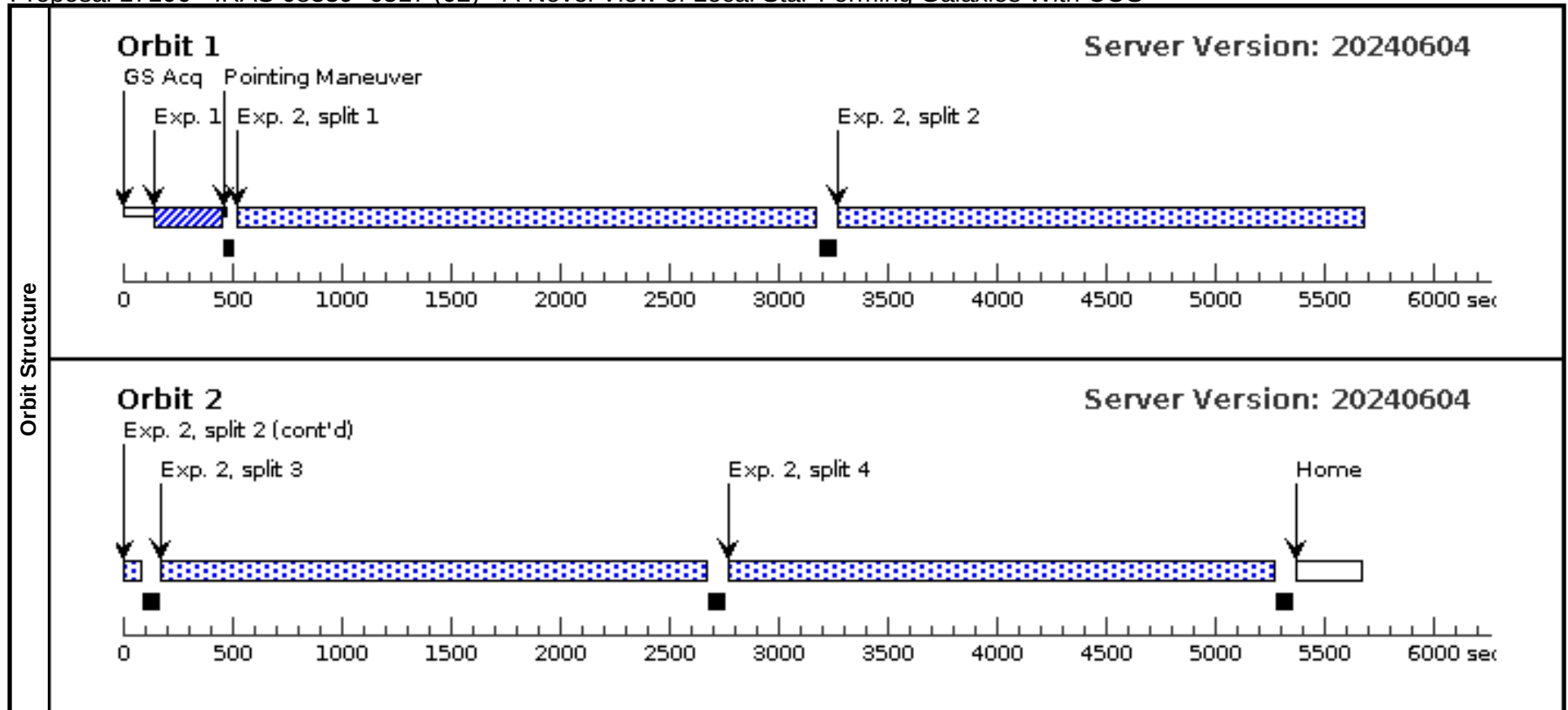
Proposal 17106 - NGC 1705 (01) - A Novel View of Local Star-Forming Galaxies With COS

Visit	Proposal 17106, NGC 1705 (01), completed										Fri Dec 20 15:00:27 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnostics	(NGC 1705 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(1)	NGC-1705	RA: 04 54 13.4100 (73.5558750d)						V=12.56		Reference Frame: ICRS			
			Dec: -53 21 38.87 (-53.36080d)						F(1150)=2e-13					
			Equinox: J2000											
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.													
	Category=GALAXY													
	Description=[STARBURST]													
	Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]			Orbit	
	1	NGC 1705 (1809322)	(1) NGC-1705	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				3 Secs (3 Secs)				
										[==>]			[1]	
	2	NGC 1705 (1732372)	(1) NGC-1705	COS/FUV, TIME-TAG, PSA		G130M	BUFFER-TIME=60			515 Secs (2060 Secs)				
						1096 A	0;	FLASH=YES;			[==>(Split 1)]			[1]
							FP-POS=ALL			[==>(Split 2)]				
										[==>(Split 3)]				
											[==>(Split 4)]			



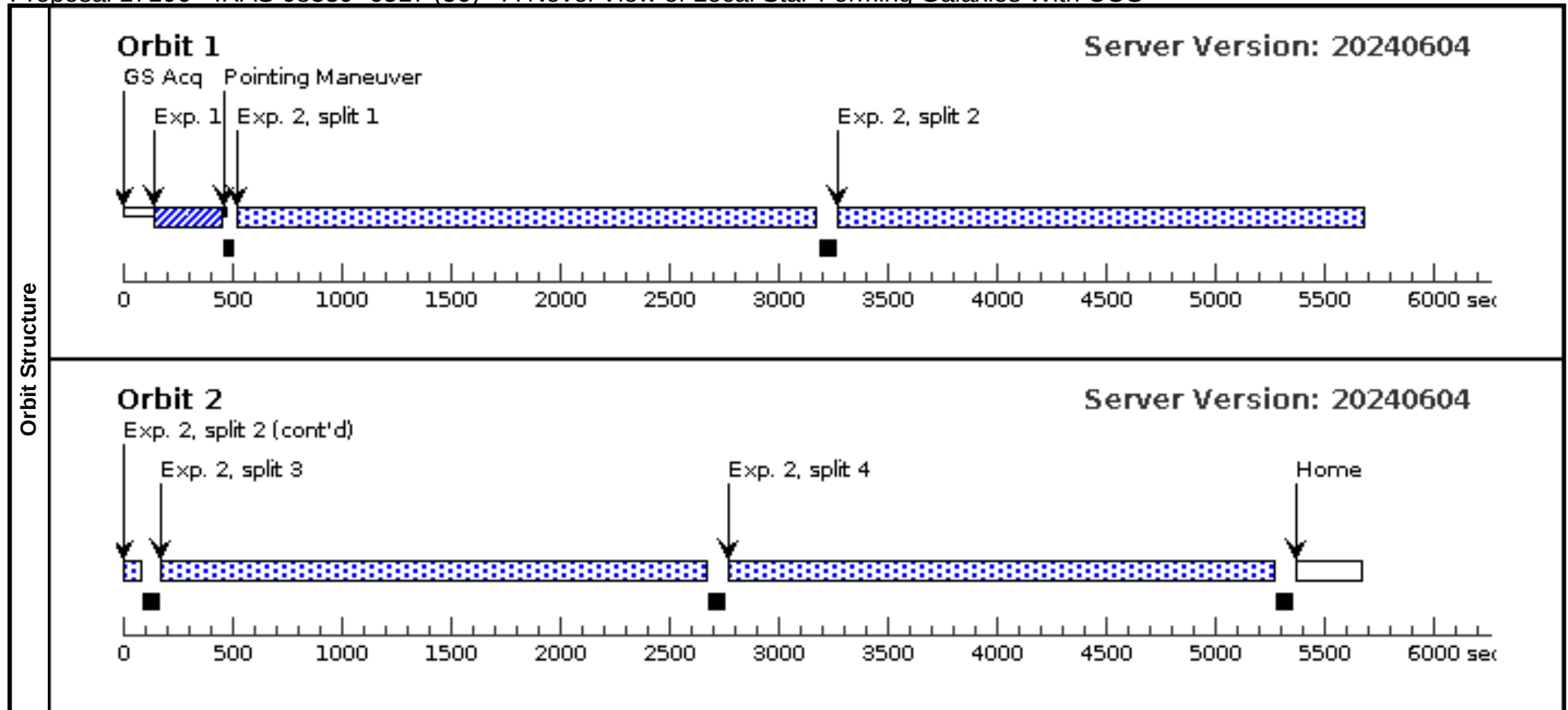
Proposal 17106 - IRAS 08339+6517 (02) - A Novel View of Local Star-Forming Galaxies With COS

Visit	Proposal 17106, IRAS 08339+6517 (02), completed										Fri Dec 20 15:00:27 GMT 2024	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: CVZ											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Fluxes		Miscellaneous	
	(2)	IRAS-08339+6517	RA: 08 38 23.1500 (129.5964583d)						V=14.16		Reference Frame: ICRS	
			Dec: +65 07 15.40 (65.12094d)						F(1150)=1.5e-14			
			Equinox: J2000									
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	Category=GALAXY											
	Description=[STARBURST]											
	Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(1809353)	(2) IRAS-08339+6517	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				8 Secs (8 Secs)		
										[==>]		[1]
	2	(1732384)	(2) IRAS-08339+6517	COS/FUV, TIME-TAG, PSA		G130M	BUFFER-TIME=3700;			2445 Secs (9780 Secs)		
						1096 A	FLASH=YES;			[==>(Split 1)]		[1]
							FP-POS=ALL			[==>(Split 2)]		
									[==>(Split 3)]		[2]	
									[==>(Split 4)]			



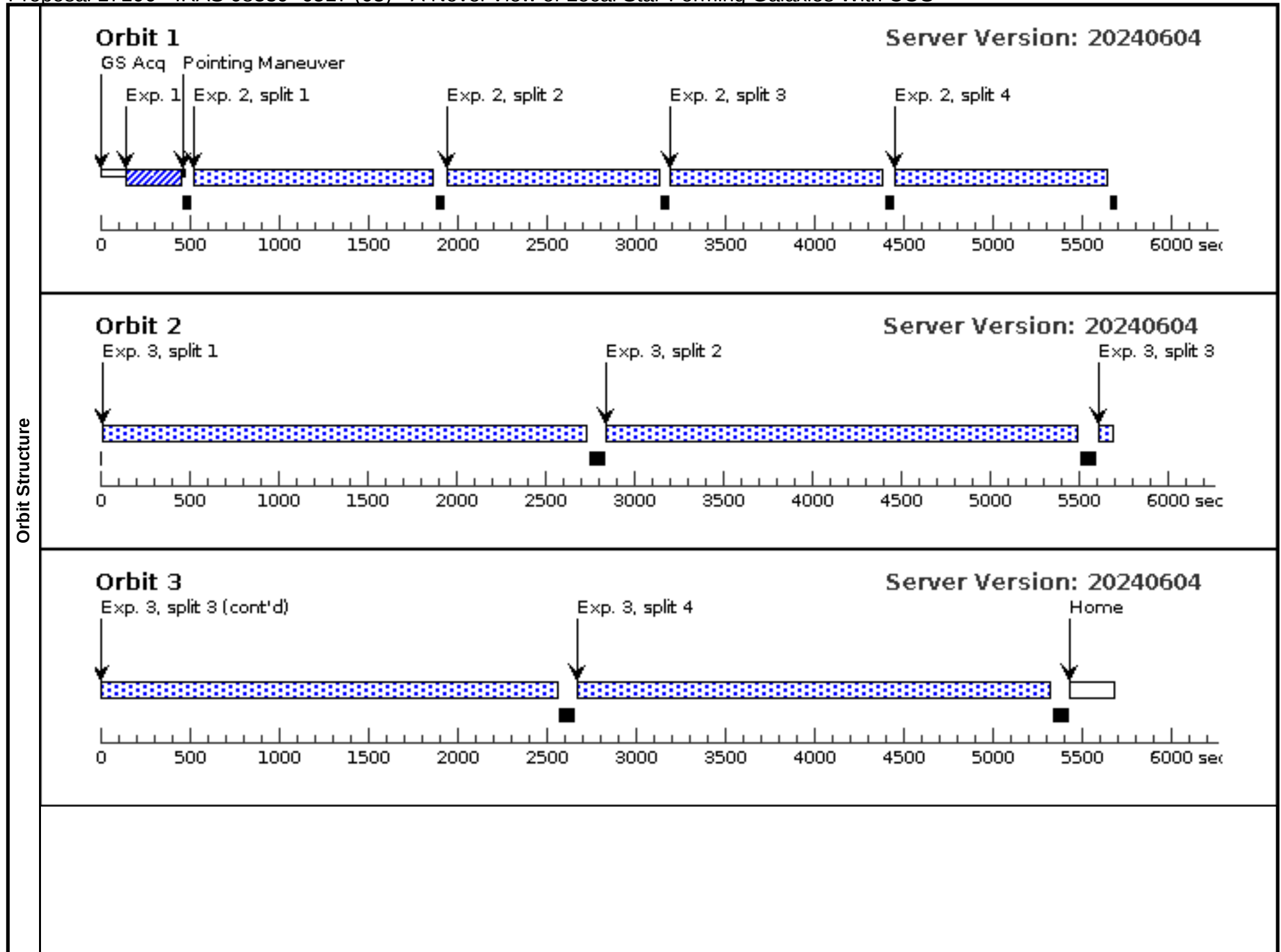
Proposal 17106 - IRAS 08339+6517 (56) - A Novel View of Local Star-Forming Galaxies With COS

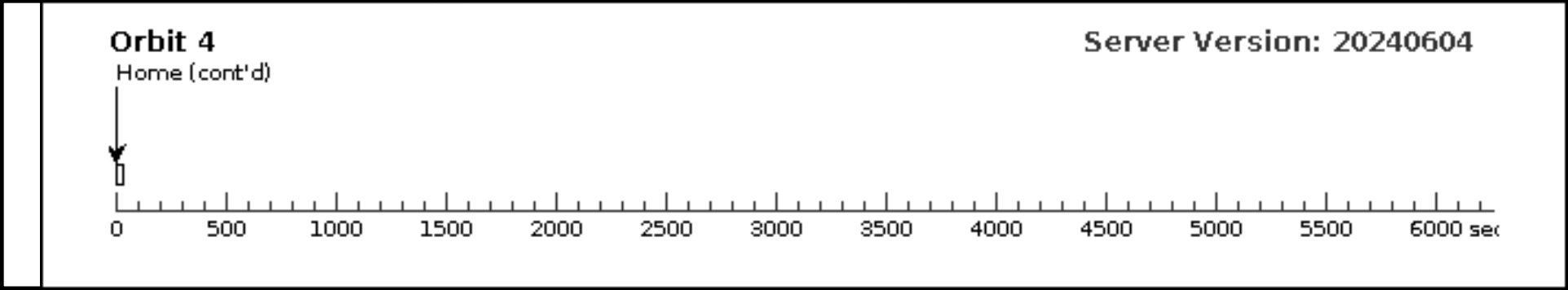
Visit	Proposal 17106, IRAS 08339+6517 (56)										Fri Dec 20 15:00:27 GMT 2024	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: CVZ											
	Comments: HOPR repeat of visit 02.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(2)	IRAS-08339+6517	RA: 08 38 23.1500 (129.5964583d)					V=14.16		Reference Frame: ICRS		
			Dec: +65 07 15.40 (65.12094d)					F(1150)=1.5e-14				
			Equinox: J2000									
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
Category=GALAXY												
Description=[STARBURST]												
Extended=NO												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(1809353)	(2) IRAS-08339+6517 7	COS/NUV, ACQ/IMAGE, PSA		MIRRORB		GS ACQ SCENARI O BASE103		8 Secs (8 Secs)		
										[==>]		[1]
	2	(1732384)	(2) IRAS-08339+6517 7	COS/FUV, TIME-TAG, PSA		G130M 1096 A	BUFFER-TIME=37 00; FLASH=YES; FP-POS=ALL			2445 Secs (9780 Secs)		
										[==>(Split 1)]		
									[==>(Split 2)]		[1]	
									[==>(Split 3)]			
									[==>(Split 4)]		[2]	



Proposal 17106 - IRAS 08339+6517 (03) - A Novel View of Local Star-Forming Galaxies With COS

Visit	Proposal 17106, IRAS 08339+6517 (03), completed										Fri Dec 20 15:00:28 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: CVZ											
Diagnostics	(IRAS 08339+6517 (03)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(2)	IRAS-08339+6517	RA: 08 38 23.1500 (129.5964583d)				V=14.16		Reference Frame: ICRS			
			Dec: +65 07 15.40 (65.12094d)				F(1150)=1.5e-14					
			Equinox: J2000									
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	Category=GALAXY											
	Description=[STARBURST]											
	Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(1809353)	(2) IRAS-08339+6517	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				8 Secs (8 Secs)		
			7							[==>]		[1]
	2	(1732384)	(2) IRAS-08339+6517	COS/FUV, TIME-TAG, PSA		G130M	BUFFER-TIME=37			1135 Secs (4540 Secs)		
			7			1096 A	00;			[==>(Split 1)]		
							FLASH=YES;			[==>(Split 2)]		
							FP-POS=ALL			[==>(Split 3)]		[1]
										[==>(Split 4)]		
	3	(1732384)	(2) IRAS-08339+6517	COS/FUV, TIME-TAG, PSA		G130M	BUFFER-TIME=37			2601 Secs (10404 Secs)		
			7			1096 A	00;			[==>(Split 1)]		
						FLASH=YES;			[==>(Split 2)]			
						FP-POS=ALL			[==>(Split 3)]		[2]	
									[==>(Split 4)]		[3]	



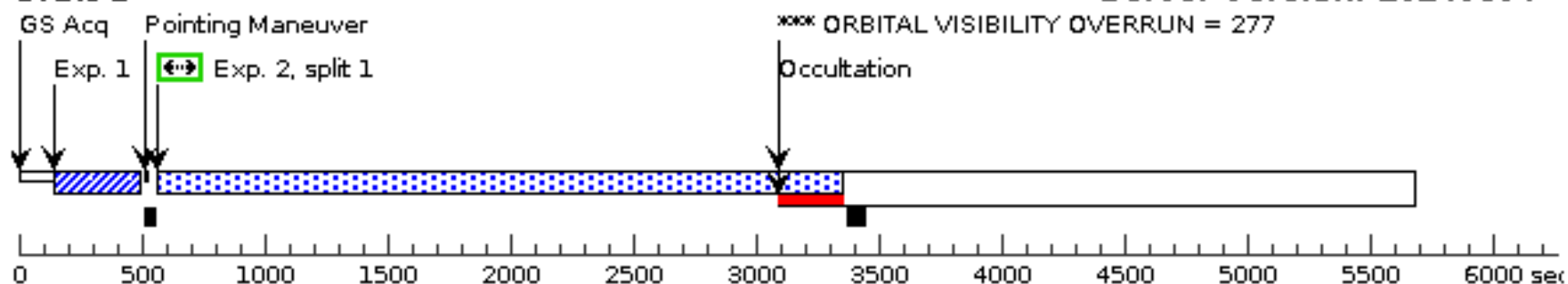


Proposal 17106 - UGCA 166 (04) - A Novel View of Local Star-Forming Galaxies With COS

Visit	Proposal 17106, UGCA 166 (04), completed										Fri Dec 20 15:00:28 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnostics	(UGCA 166 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(UGCA 166 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(UGCA 166 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(UGCA 166 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(3)	UGCA-166	RA: 09 34 2.0256 (143.5084400d) Dec: +55 14 28.07 (55.24113d) Equinox: J2000				V=16.11 F(1150)=1.3e-14		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the NED database.											
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Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(1810008)	(3) UGCA-166	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				30 Secs (30 Secs)			
										[==>]	[1]	
	2	(1732391)	(3) UGCA-166	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=39 00; FLASH=YES; FP-POS=ALL				2500 Secs (11383 Secs)		
										[==>2584.0 Secs (Split 1)]	[1]	
										[==>2933.0 Secs (Split 2)]	[2]	
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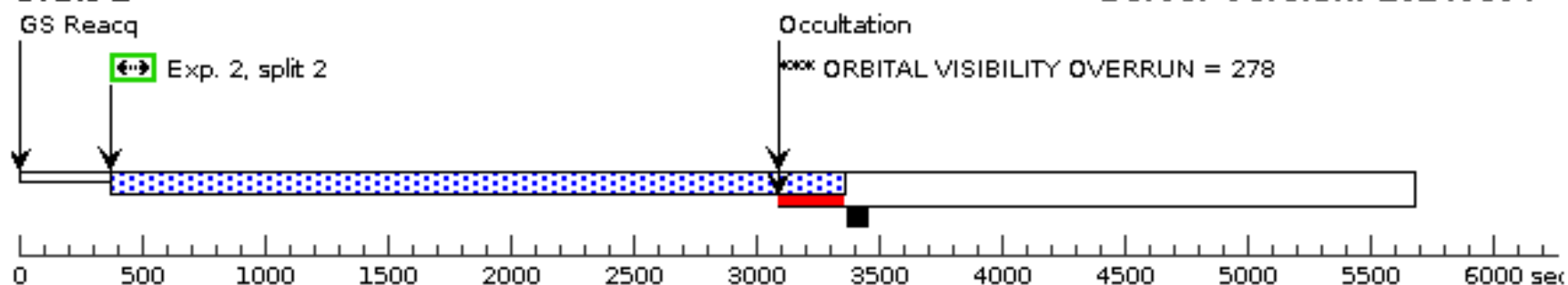
Orbit 1

Server Version: 20240604



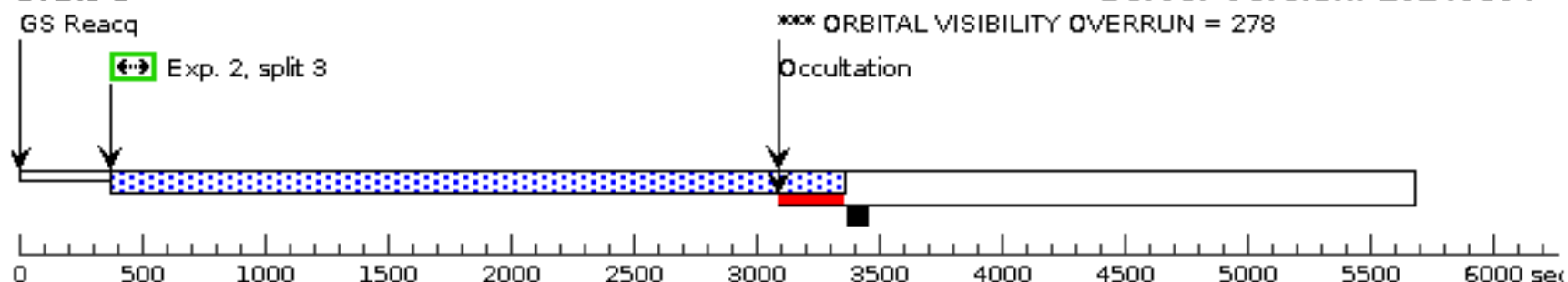
Orbit 2

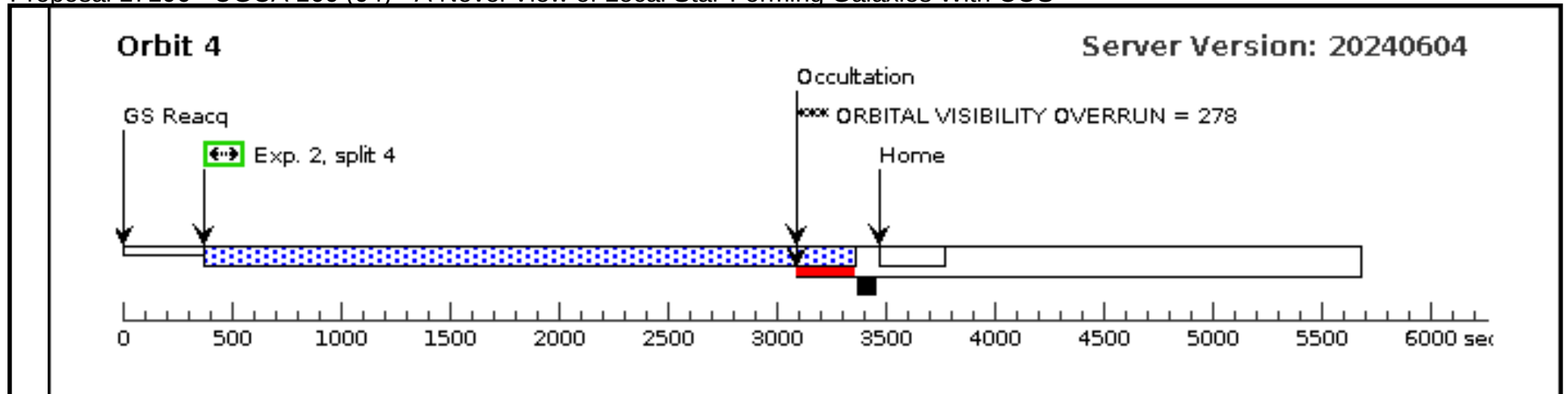
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Orbit 3

Server Version: 20240604



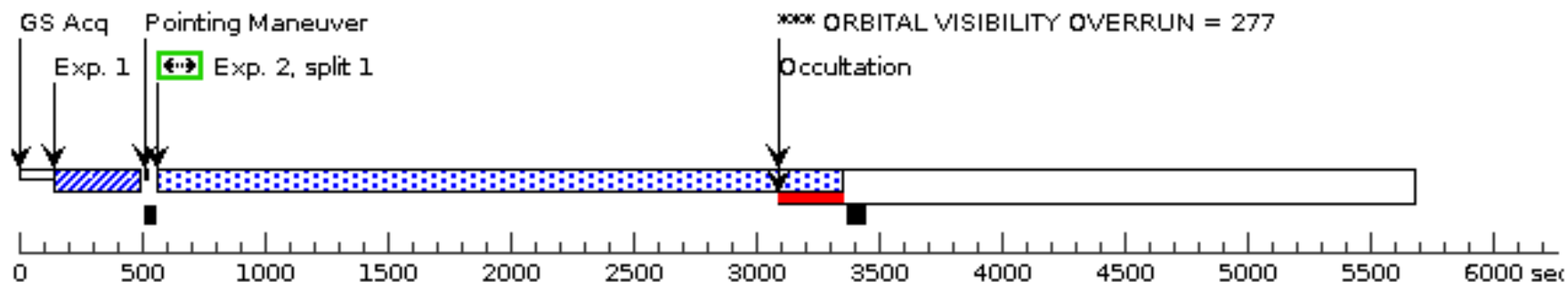


Proposal 17106 - UGCA 166 (05) - A Novel View of Local Star-Forming Galaxies With COS

Visit	Proposal 17106, UGCA 166 (05), completed										Fri Dec 20 15:00:28 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnostics	(UGCA 166 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
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	(UGCA 166 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(3)	UGCA-166	RA: 09 34 2.0256 (143.5084400d) Dec: +55 14 28.07 (55.24113d) Equinox: J2000				V=16.11 F(1150)=1.3e-14		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the NED database.											
	Category=GALAXY											
	Description=[STARBURST]											
Extended=NO												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(1810008)	(3) UGCA-166	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				30 Secs (30 Secs)			
										[==>]	[1]	
	2	(1732391)	(3) UGCA-166	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=39 00; FLASH=YES; FP-POS=ALL				2500 Secs (11383 Secs)		
										[==>2584.0 Secs (Split 1)]	[1]	
										[==>2933.0 Secs (Split 2)]	[2]	
										[==>2933.0 Secs (Split 3)]	[3]	
										[==>2933.0 Secs (Split 4)]	[4]	

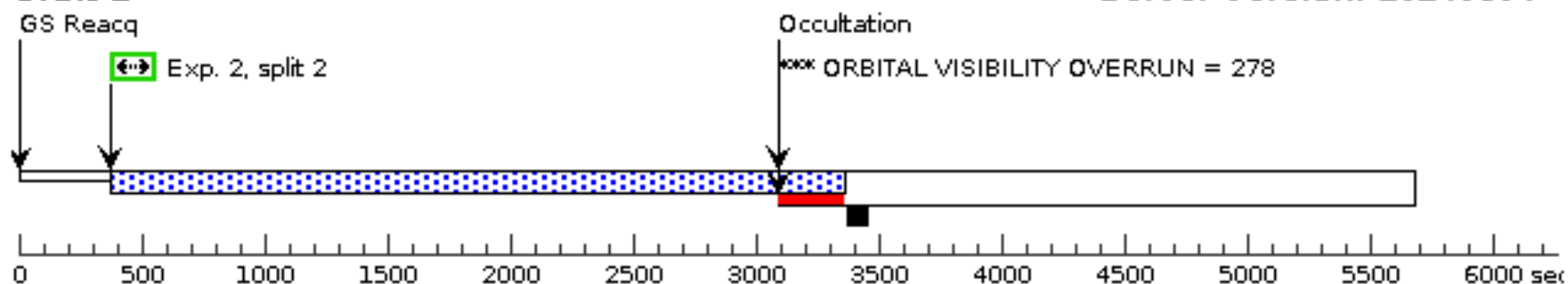
Orbit 1

Server Version: 20240604



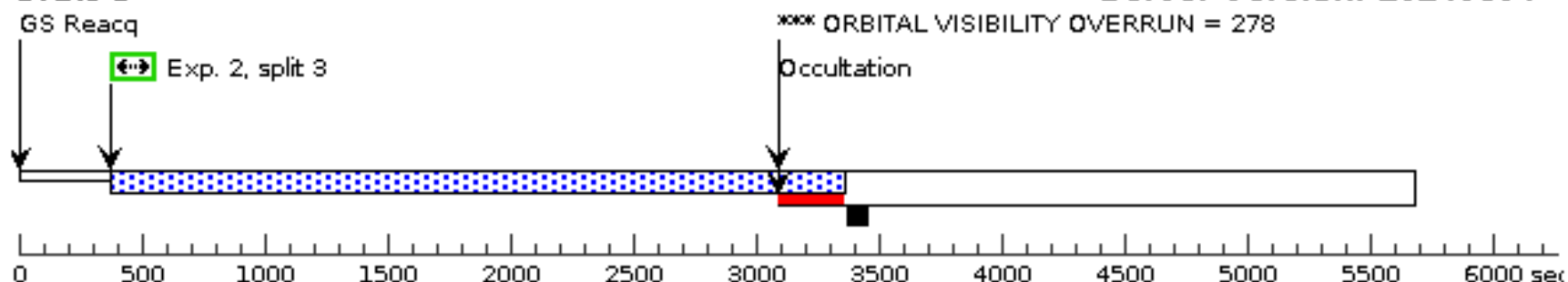
Orbit 2

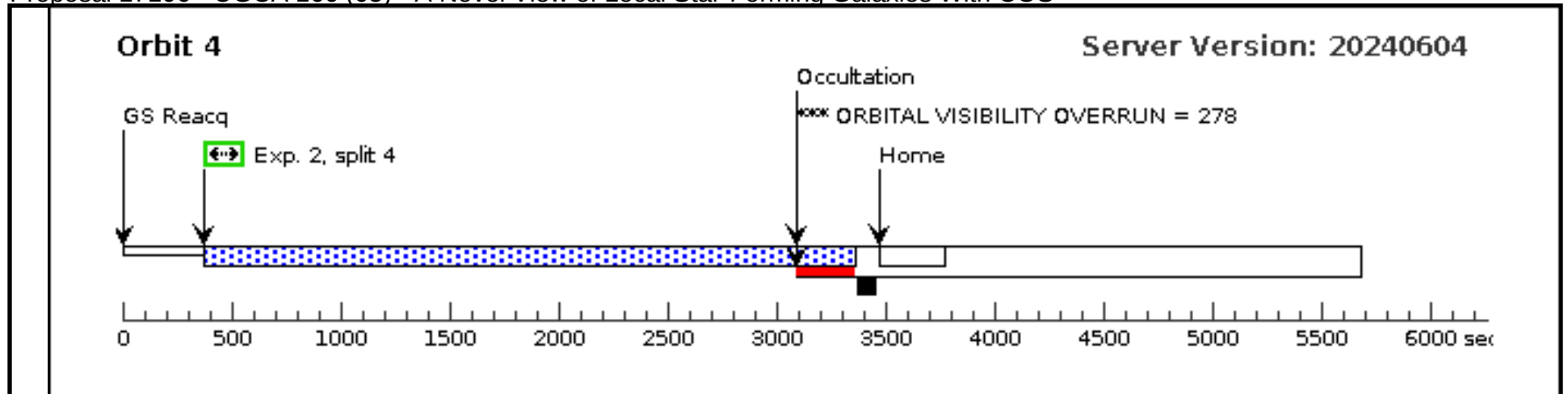
Server Version: 20240604



Orbit 3

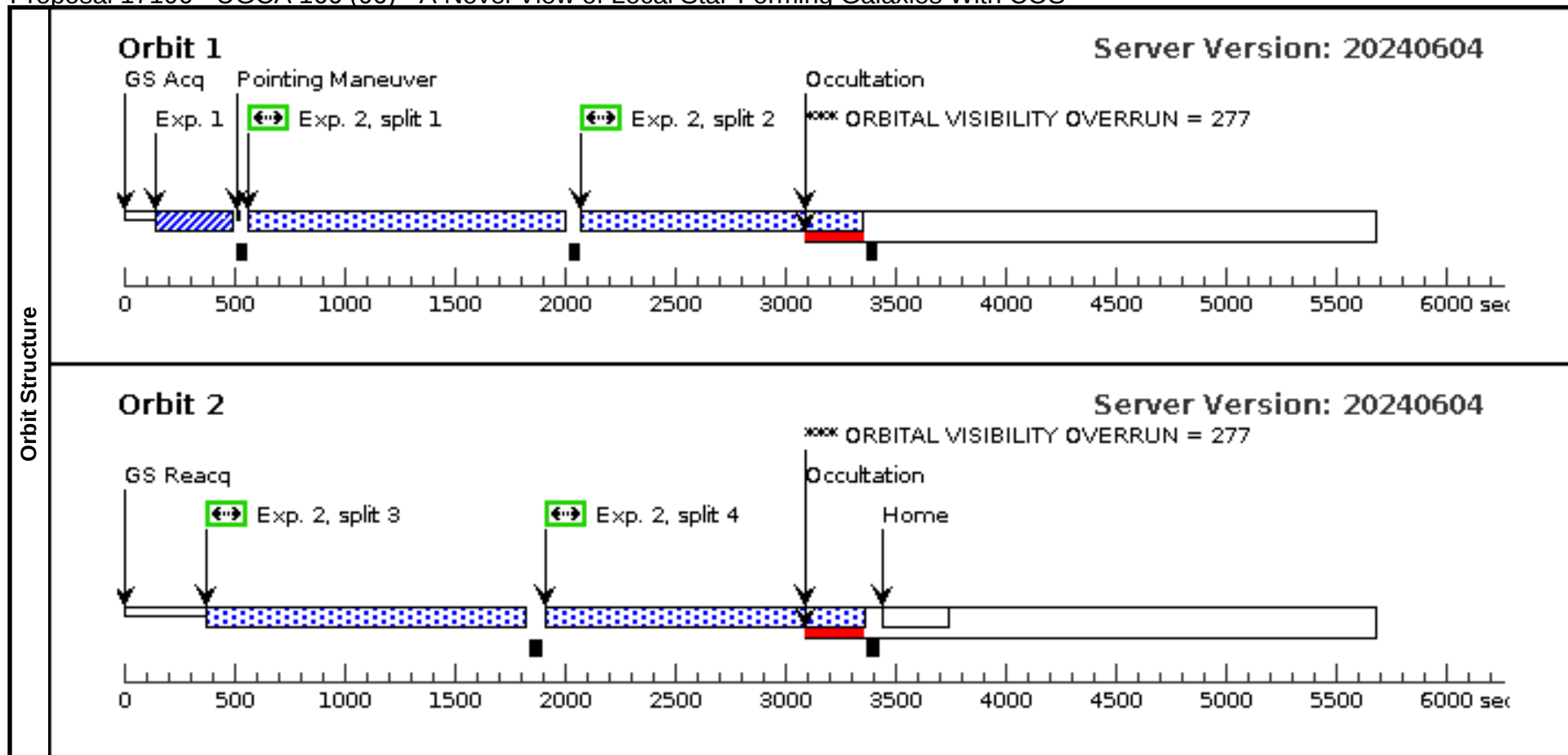
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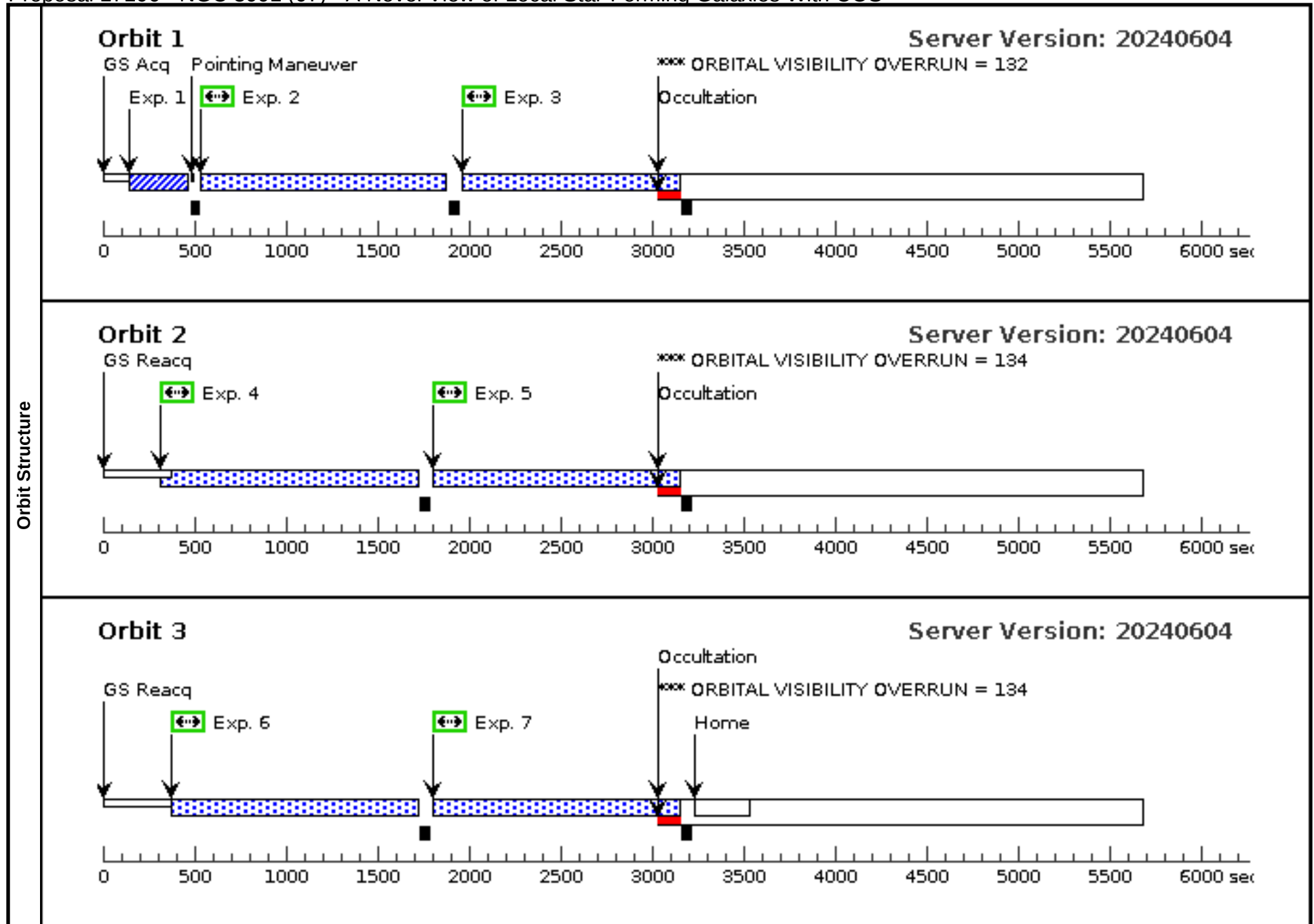
Proposal 17106 - UGCA 166 (06) - A Novel View of Local Star-Forming Galaxies With COS

Visit	Proposal 17106, UGCA 166 (06), completed										Fri Dec 20 15:00:28 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnostics	(UGCA 166 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(UGCA 166 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous				
	(3)	UGCA-166	RA: 09 34 2.0256 (143.5084400d)				V=16.11	Reference Frame: ICRS				
			Dec: +55 14 28.07 (55.24113d)				F(1150)=1.3e-14					
			Equinox: J2000									
		Comments: This object was generated by the targetselector and retrieved from the NED database. Category=GALAXY Description=[STARBURST] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(1810008)	(3) UGCA-166	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				30 Secs (30 Secs)			
									[==>]		[1]	
	2	(1732391)	(3) UGCA-166	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=39			1200 Secs (5258 Secs)			
					1096 A	00;			[==>1230.0 Secs (Split 1)]			
						FLASH=YES;			[==>1230.0 Secs (Split 2)]		[1]	
						FP-POS=ALL			[==>1399.0 Secs (Split 3)]			
								[==>1399.0 Secs (Split 4)]		[2]		



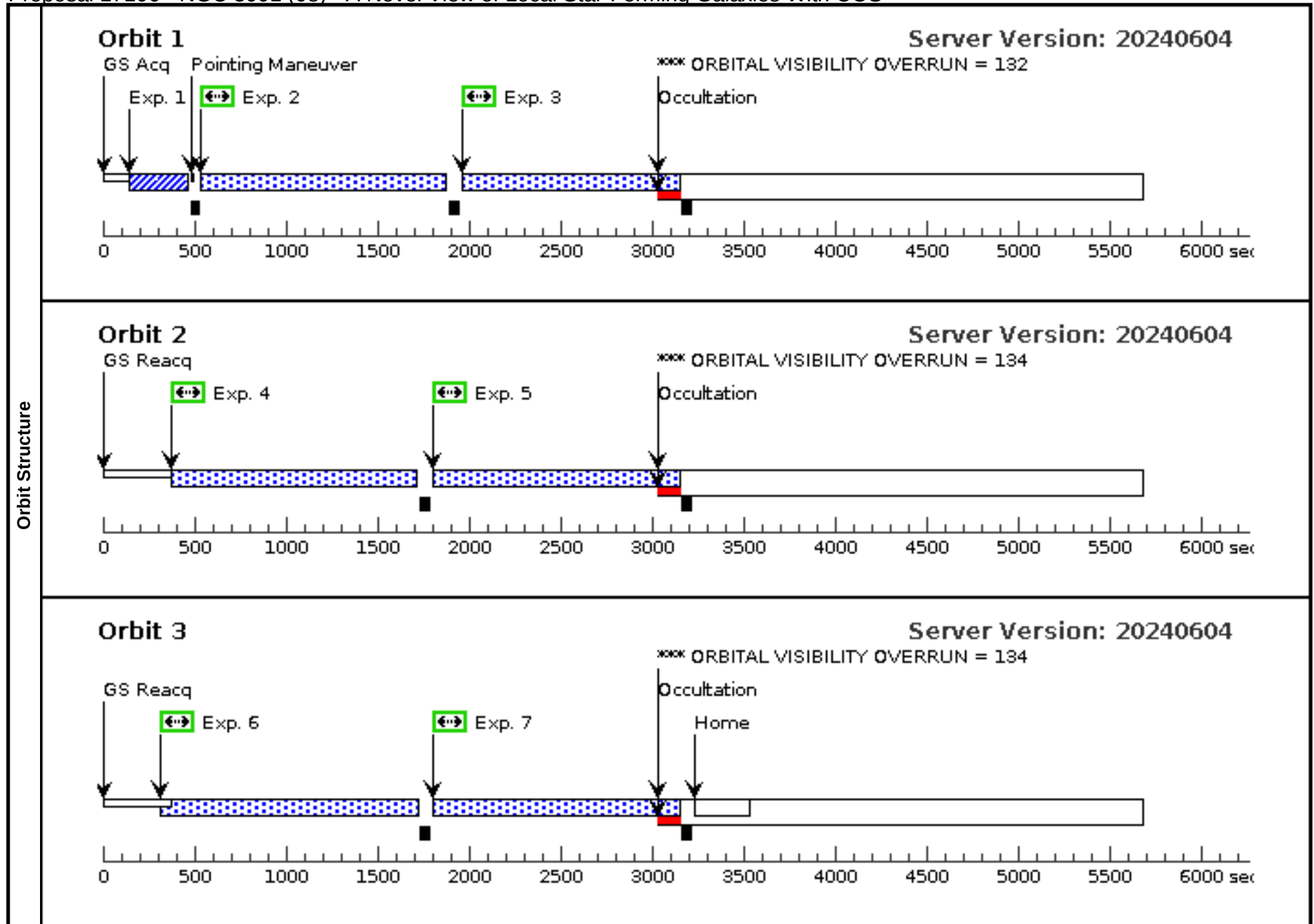
Proposal 17106 - NGC 3991 (07) - A Novel View of Local Star-Forming Galaxies With COS

Visit	Proposal 17106, NGC 3991 (07), failed										Fri Dec 20 15:00:28 GMT 2024
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: (none)										
Diagnostics	(NGC 3991 (07)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS										
	(NGC 3991 (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(NGC 3991 (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(NGC 3991 (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(4)	NGC-3991	RA: 11 57 31.6800 (179.3820000d) Dec: +32 20 30.12 (32.34170d) Equinox: J2000				V=13.11 F(1150)=2e-14		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	Category=GALAXY										
	Description=[STARBURST] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(1809360)	(4) NGC-3991	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				15 Secs (15 Secs)		
									[==>]		[1]
	2	(1732396)	(4) NGC-3991	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=1			1135 Secs (1135 Secs)		
									[==>]		[1]
	3	(1732396)	(4) NGC-3991	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=2			1135 Secs (1135 Secs)		
									[==>]		[1]
	4	(1732396)	(4) NGC-3991	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=1			1290 Secs (1290 Secs)		
									[==>]		[2]
	5	(1732396)	(4) NGC-3991	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=2			1300 Secs (1300 Secs)		
									[==>]		[2]
	6	(1732396)	(4) NGC-3991	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=3			1295 Secs (1295 Secs)		
									[==>]		[3]
	7	(1732396)	(4) NGC-3991	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=4			1295 Secs (1295 Secs)		
									[==>]		[3]



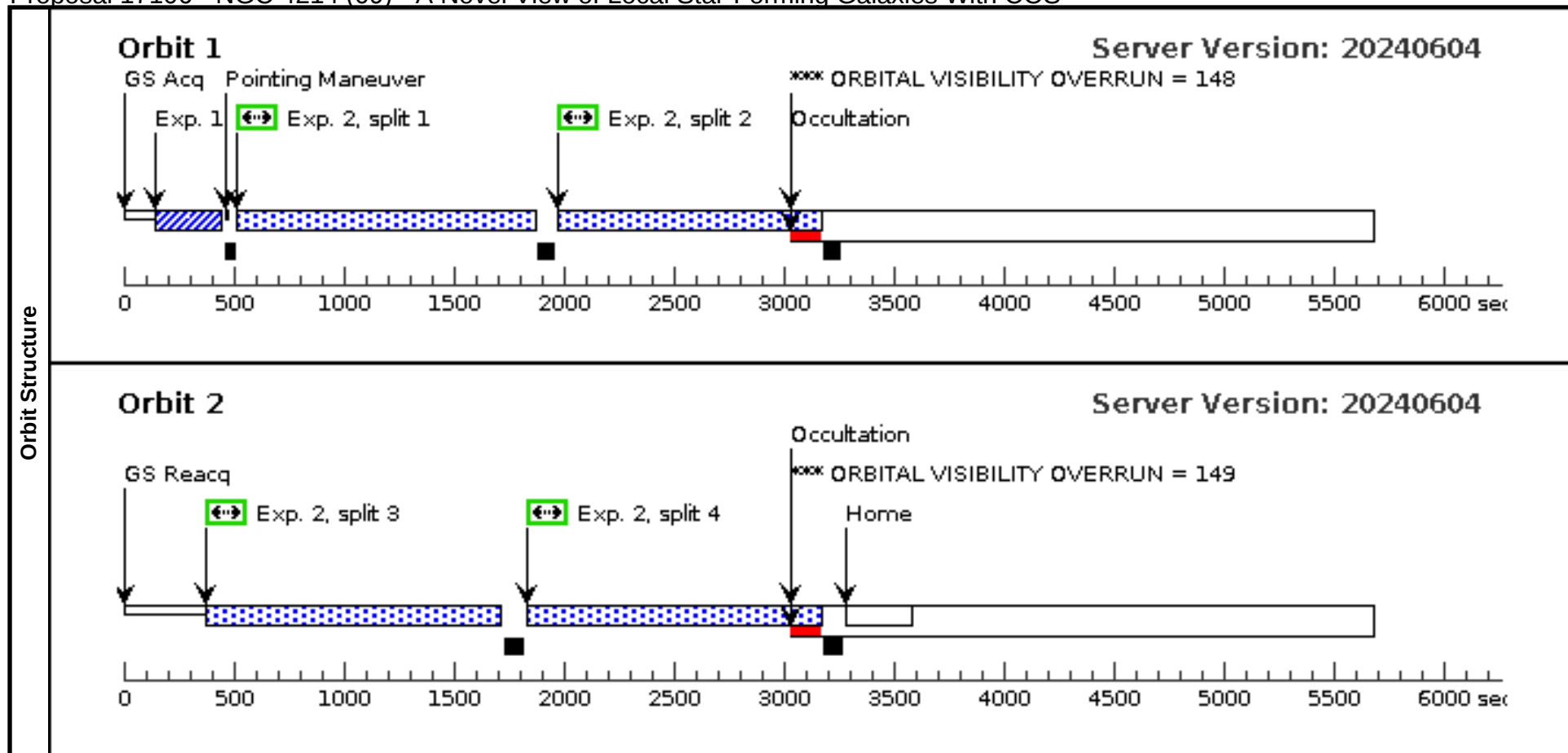
Proposal 17106 - NGC 3991 (08) - A Novel View of Local Star-Forming Galaxies With COS

Visit	Proposal 17106, NGC 3991 (08), completed										Fri Dec 20 15:00:28 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnostics	(NGC 3991 (08)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS													
	(NGC 3991 (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
	(NGC 3991 (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
	(NGC 3991 (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous					
	(4)	NGC-3991	RA: 11 57 31.6800 (179.3820000d) Dec: +32 20 30.12 (32.34170d) Equinox: J2000				V=13.11 F(1150)=2e-14		Reference Frame: ICRS					
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.													
	Category=GALAXY Description=[STARBURST] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit			
	1	(1809360)	(4) NGC-3991	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				15 Secs (15 Secs)					
										[==>]	[1]			
	2	(1732396)	(4) NGC-3991	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=1			1135 Secs (1135 Secs)					
										[==>]	[1]			
	3	(1732396)	(4) NGC-3991	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=2			1135 Secs (1135 Secs)					
										[==>]	[1]			
	4	(1732396)	(4) NGC-3991	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=3			1290 Secs (1290 Secs)					
										[==>]	[2]			
	5	(1732396)	(4) NGC-3991	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=4			1300 Secs (1300 Secs)					
										[==>]	[2]			
	6	(1732396)	(4) NGC-3991	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=3			1295 Secs (1295 Secs)					
										[==>]	[3]			
	7	(1732396)	(4) NGC-3991	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=4			1295 Secs (1295 Secs)					
										[==>]	[3]			



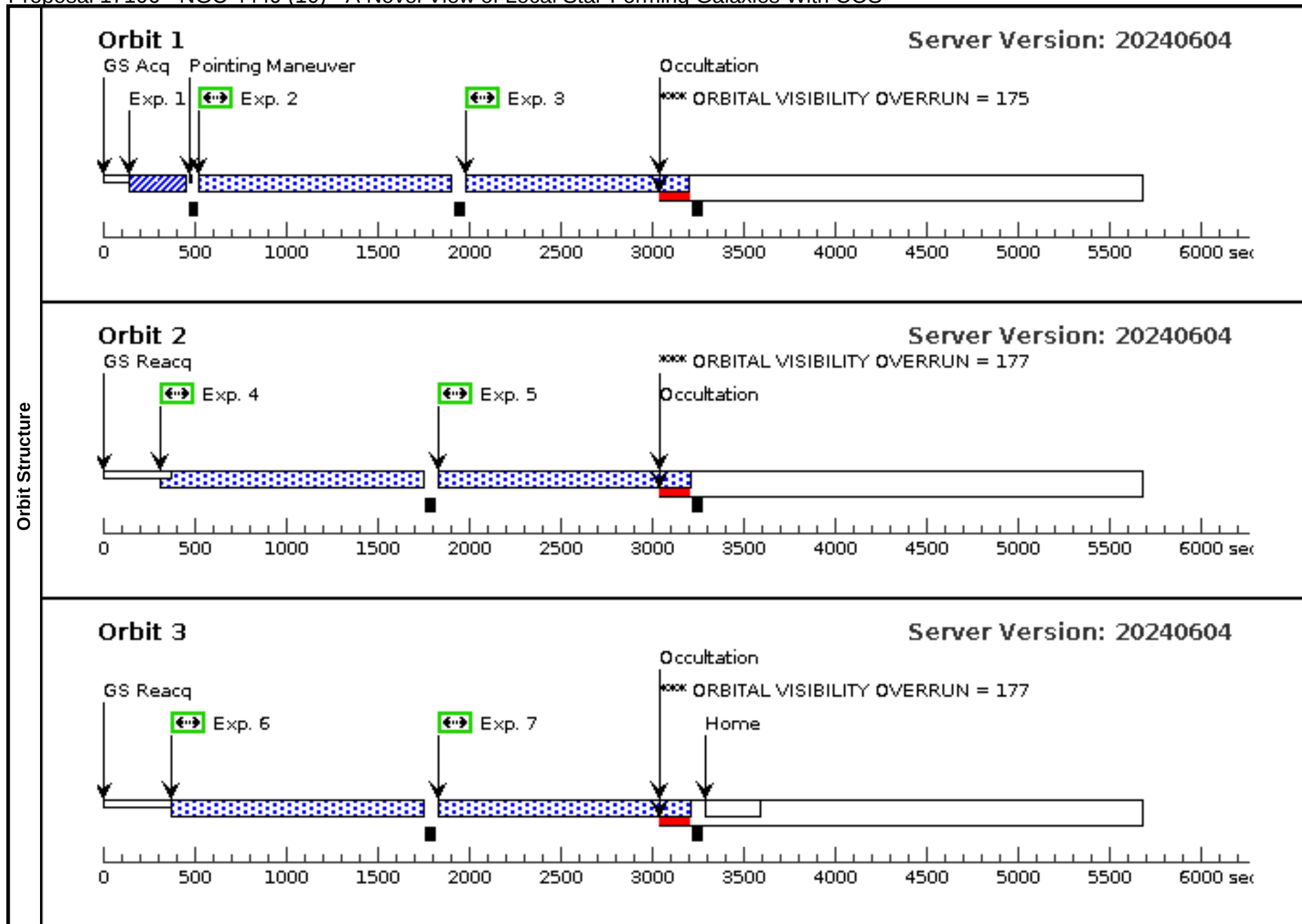
Proposal 17106 - NGC 4214 (09) - A Novel View of Local Star-Forming Galaxies With COS

Visit	Proposal 17106, NGC 4214 (09), completed										Fri Dec 20 15:00:28 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnostics	(NGC 4214 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(NGC 4214 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(5)	NGC-4214	RA: 12 15 39.4800 (183.9145000d)				V=9.93		Reference Frame: ICRS			
			Dec: +36 19 35.36 (36.32649d)				F(1150)=5e-14					
			Equinox: J2000									
			Comments: This object was generated by the targetselector and retrieved from the NED database. Category=GALAXY Description=[STARBURST] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(1809503)	(5) NGC-4214	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				4 Secs (4 Secs)		
										[==>]		[1]
	2	(1732398)	(5) NGC-4214	COS/FUV, TIME-TAG, PSA		G130M	BUFFER-TIME=19			1150 Secs (4876 Secs)		
						1096 A	00;			[==>1147.0 Secs (Split 1)]		
							FLASH=YES;			[==>1147.0 Secs (Split 2)]		[1]
							FP-POS=ALL			[==>1291.0 Secs (Split 3)]		
									[==>1291.0 Secs (Split 4)]		[2]	



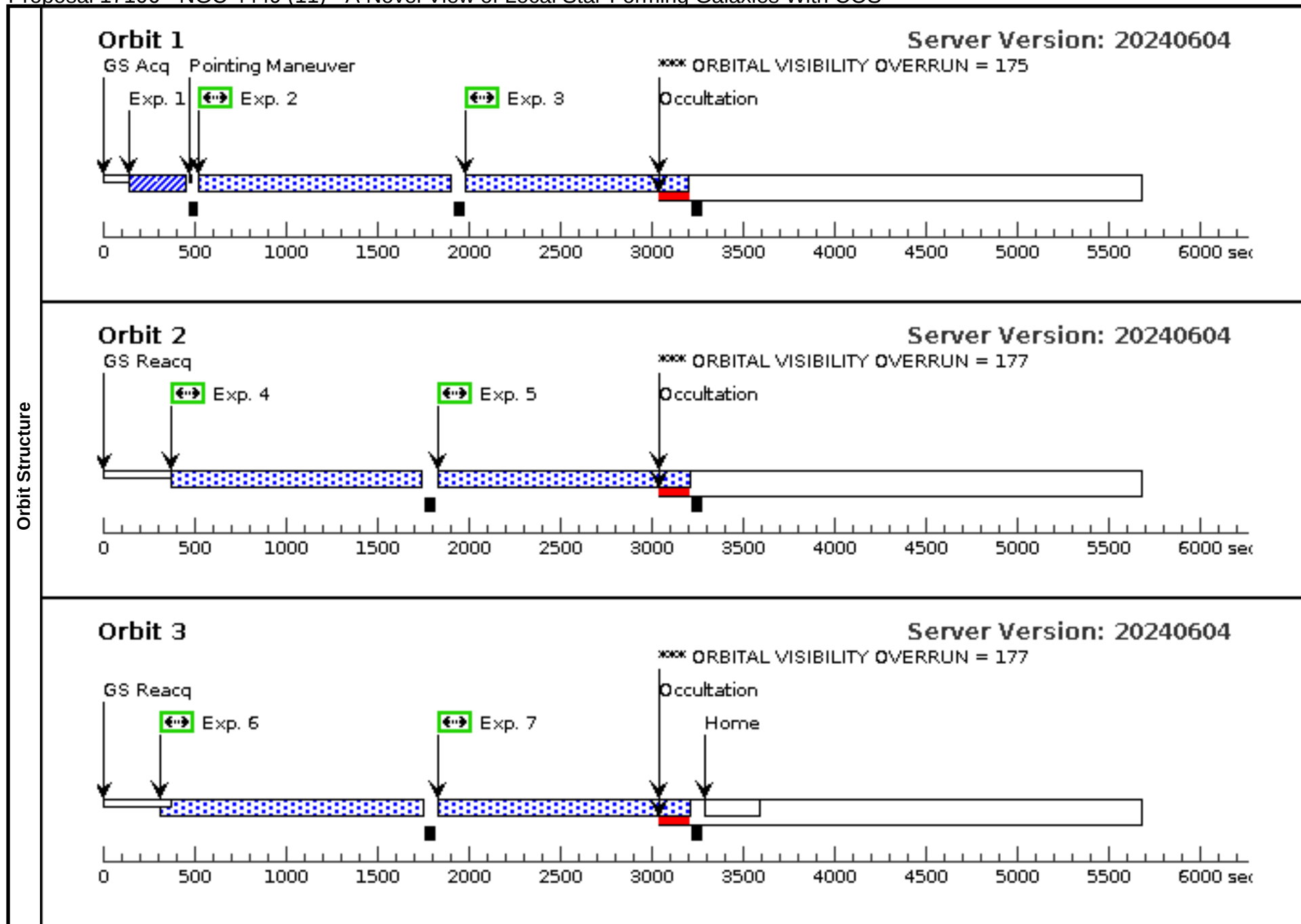
Proposal 17106 - NGC 4449 (10) - A Novel View of Local Star-Forming Galaxies With COS

Visit	Proposal 17106, NGC 4449 (10), completed									Fri Dec 20 15:00:28 GMT 2024
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Diagnostics	(NGC 4449 (10)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS									
	(NGC 4449 (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(NGC 4449 (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(NGC 4449 (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(6)	NGC-4449	RA: 12 28 11.0900 (187.0462083d) Dec: +44 05 37.06 (44.09363d) Equinox: J2000			V=9.64 F(1150)=2e-14		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
	Category=GALAXY Description=[STARBURST] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1809504)	(6) NGC-4449	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				10 Secs (10 Secs)	
									[==>]	[1]
	2	(1732396)	(6) NGC-4449	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=1			1135 Secs (1169 Secs)	
									[==>1169.0 Secs]	[1]
	3	(1732396)	(6) NGC-4449	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=2			1135 Secs (1169 Secs)	
									[==>1169.0 Secs]	[1]
	4	(1732396)	(6) NGC-4449	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=1			1290 Secs (1319 Secs)	
									[==>1319.0 Secs]	[2]
	5	(1732396)	(6) NGC-4449	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=2			1300 Secs (1329 Secs)	
									[==>1329.0 Secs]	[2]
	6	(1732396)	(6) NGC-4449	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=3			1295 Secs (1324 Secs)	
									[==>1324.0 Secs]	[3]
	7	(1732396)	(6) NGC-4449	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=4			1295 Secs (1324 Secs)	
									[==>1324.0 Secs]	[3]



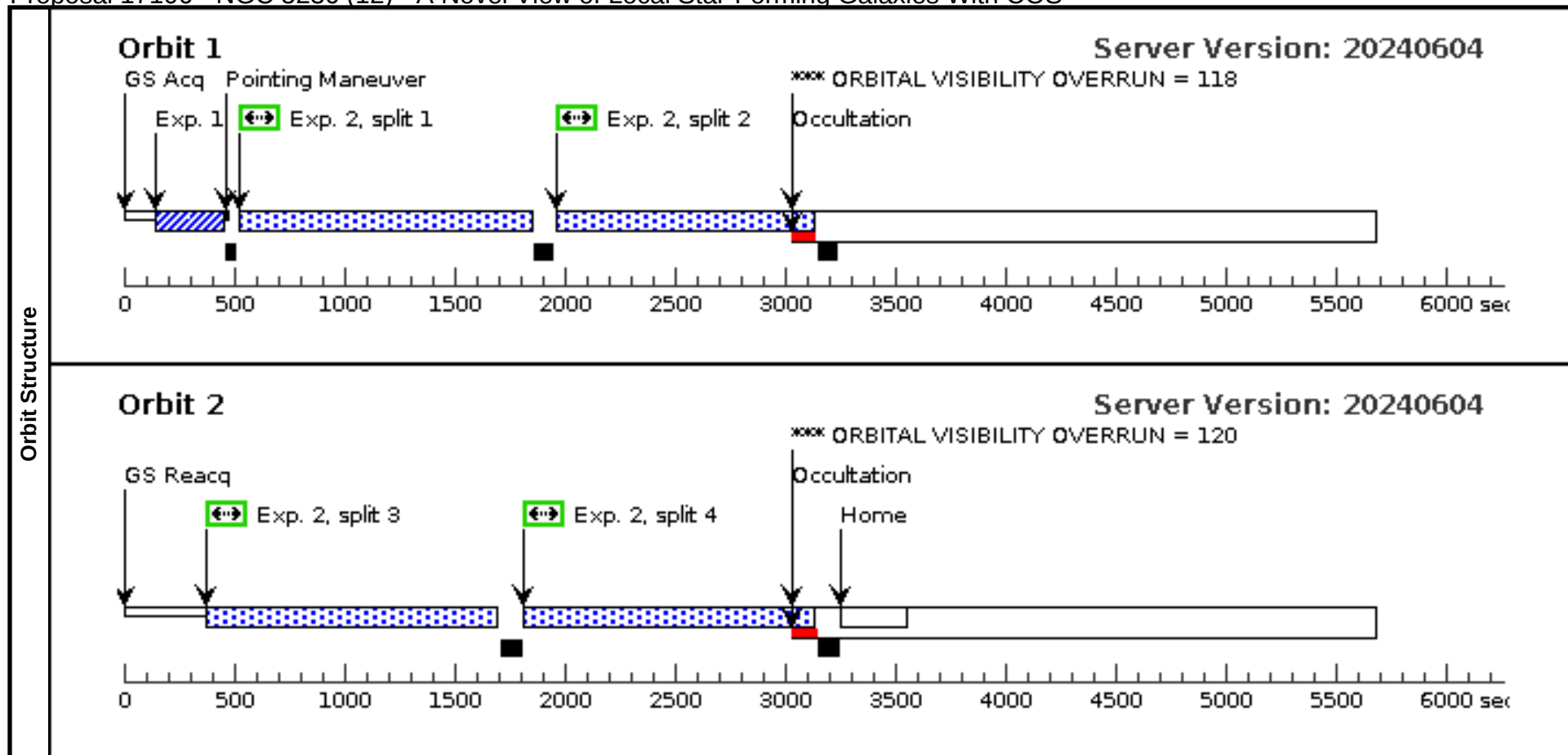
Proposal 17106 - NGC 4449 (11) - A Novel View of Local Star-Forming Galaxies With COS

Visit	Proposal 17106, NGC 4449 (11), failed										Fri Dec 20 15:00:28 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnostics	(NGC 4449 (11)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS													
	(NGC 4449 (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
	(NGC 4449 (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
	(NGC 4449 (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous					
	(6)	NGC-4449	RA: 12 28 11.0900 (187.0462083d) Dec: +44 05 37.06 (44.09363d) Equinox: J2000				V=9.64 F(1150)=2e-14		Reference Frame: ICRS					
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.													
	Category=GALAXY Description=[STARBURST] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit			
	1	(1809504)	(6) NGC-4449	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				10 Secs (10 Secs)					
										[==>]	[1]			
	2	(1732396)	(6) NGC-4449	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=1			1135 Secs (1169 Secs)					
										[==>1169.0 Secs]	[1]			
	3	(1732396)	(6) NGC-4449	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=2			1135 Secs (1169 Secs)					
										[==>1169.0 Secs]	[1]			
	4	(1732396)	(6) NGC-4449	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=3			1290 Secs (1319 Secs)					
										[==>1319.0 Secs]	[2]			
	5	(1732396)	(6) NGC-4449	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=4			1300 Secs (1329 Secs)					
										[==>1329.0 Secs]	[2]			
	6	(1732396)	(6) NGC-4449	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=3			1295 Secs (1324 Secs)					
										[==>1324.0 Secs]	[3]			
	7	(1732396)	(6) NGC-4449	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=4			1295 Secs (1324 Secs)					
									[==>1324.0 Secs]	[3]				



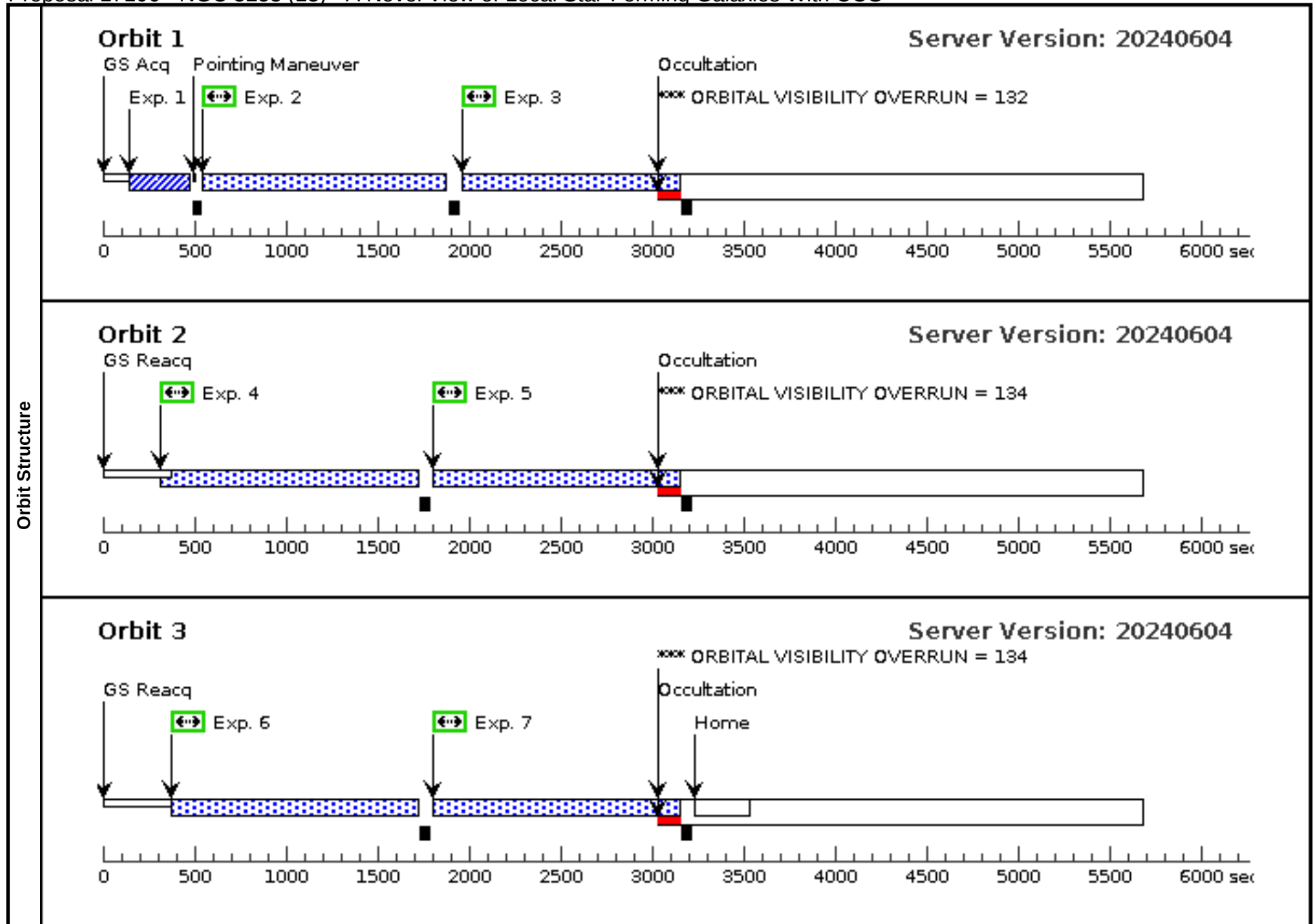
Proposal 17106 - NGC 5236 (12) - A Novel View of Local Star-Forming Galaxies With COS

Visit	Proposal 17106, NGC 5236 (12), completed										Fri Dec 20 15:00:28 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnostics	(NGC 5236 (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(NGC 5236 (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(7)	NGC-5236	RA: 13 37 0.4600 (204.2519167d)				V=7.52		Reference Frame: ICRS			
			Dec: -29 51 54.58 (-29.86516d)				F(1150)=7e-14					
			Equinox: J2000									
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	Category=GALAXY											
	Description=[STARBURST]											
	Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(1809505)	(7) NGC-5236	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				8 Secs (8 Secs)		
										[==>]		[1]
	2	(1732401)	(7) NGC-5236	COS/FUV, TIME-TAG, PSA		G130M	BUFFER-TIME=15			1120 Secs (4776 Secs)		
						1096 A	00;			[==>(Split 1)]		
							FLASH=YES;			[==>(Split 2)]		[1]
						FP-POS=ALL			[==>1268.0 Secs (Split 3)]			
									[==>1268.0 Secs (Split 4)]		[2]	



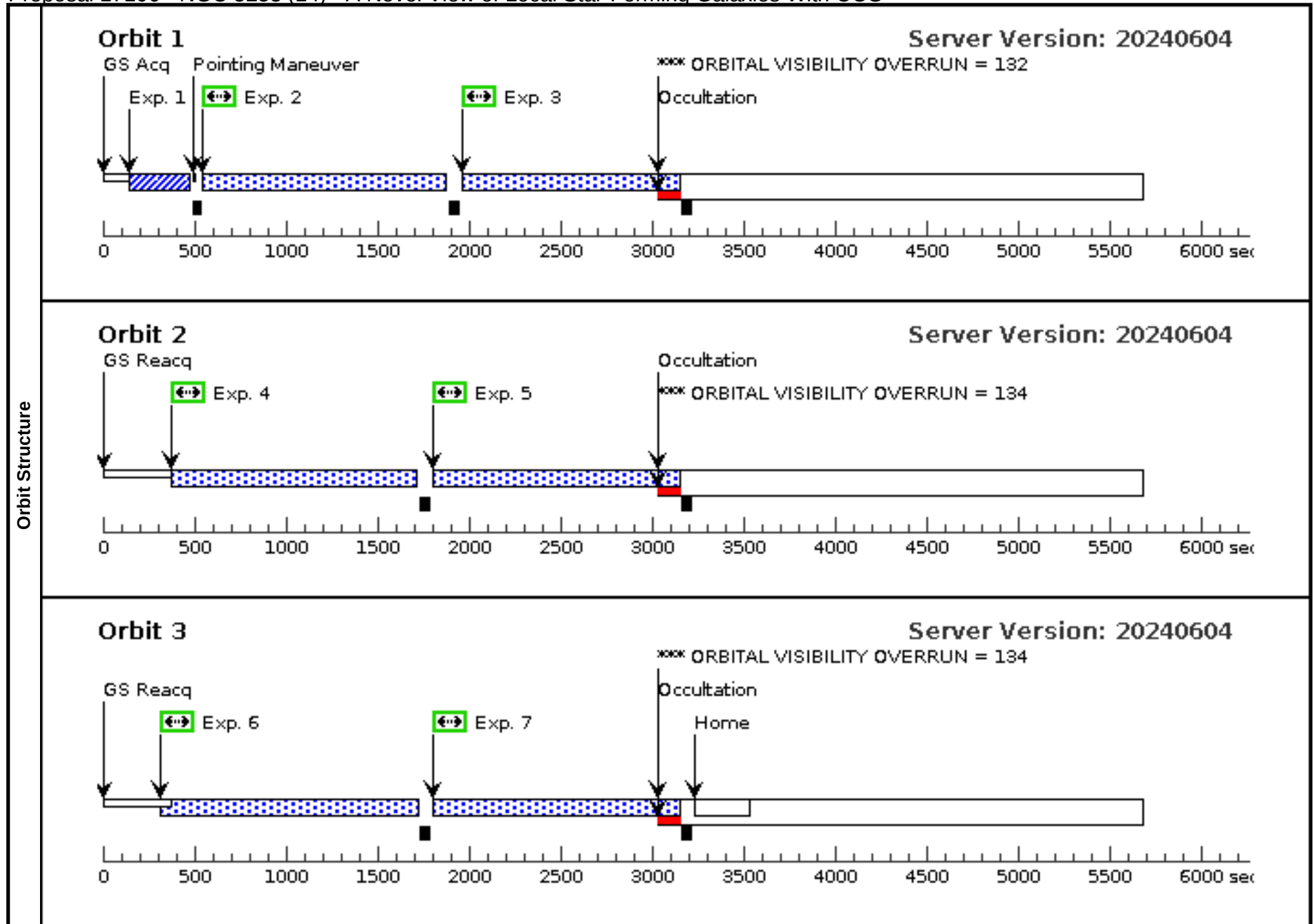
Proposal 17106 - NGC 5253 (13) - A Novel View of Local Star-Forming Galaxies With COS

Visit	Proposal 17106, NGC 5253 (13), failed										Fri Dec 20 15:00:28 GMT 2024
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: (none)										
Diagnostics	(NGC 5253 (13)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS										
	(NGC 5253 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(NGC 5253 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(NGC 5253 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(8)	NGC-5253	RA: 13 39 55.9900 (204.9832917d) Dec: -31 38 24.59 (-31.64016d) Equinox: J2000				V=10.49 F(1150)=2e-14		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	Category=GALAXY										
	Description=[STARBURST] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(1809507)	(8) NGC-5253	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				20 Secs (20 Secs)		
									[==>]		[1]
	2	(1732396)	(8) NGC-5253	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=1			1125 Secs (1125 Secs)		
									[==>]		[1]
	3	(1732396)	(8) NGC-5253	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=2			1135 Secs (1135 Secs)		
									[==>]		[1]
	4	(1732396)	(8) NGC-5253	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=1			1290 Secs (1290 Secs)		
									[==>]		[2]
	5	(1732396)	(8) NGC-5253	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=2			1300 Secs (1300 Secs)		
									[==>]		[2]
	6	(1732396)	(8) NGC-5253	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=3			1295 Secs (1295 Secs)		
									[==>]		[3]
	7	(1732396)	(8) NGC-5253	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=4			1295 Secs (1295 Secs)		
									[==>]		[3]



Proposal 17106 - NGC 5253 (14) - A Novel View of Local Star-Forming Galaxies With COS

Visit	Proposal 17106, NGC 5253 (14), failed										Fri Dec 20 15:00:28 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnostics	(NGC 5253 (14)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS											
	(NGC 5253 (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(NGC 5253 (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(NGC 5253 (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(8)	NGC-5253	RA: 13 39 55.9900 (204.9832917d) Dec: -31 38 24.59 (-31.64016d) Equinox: J2000				V=10.49 F(1150)=2e-14		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	Category=GALAXY Description=[STARBURST] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(1809507)	(8) NGC-5253	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				20 Secs (20 Secs)			
									[==>]		[1]	
	2	(1732396)	(8) NGC-5253	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=1			1125 Secs (1125 Secs)			
									[==>]		[1]	
	3	(1732396)	(8) NGC-5253	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=2			1135 Secs (1135 Secs)			
									[==>]		[1]	
	4	(1732396)	(8) NGC-5253	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=3			1290 Secs (1290 Secs)			
									[==>]		[2]	
	5	(1732396)	(8) NGC-5253	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=4			1300 Secs (1300 Secs)			
									[==>]		[2]	
	6	(1732396)	(8) NGC-5253	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=3			1295 Secs (1295 Secs)			
									[==>]		[3]	
	7	(1732396)	(8) NGC-5253	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=4			1295 Secs (1295 Secs)			
									[==>]		[3]	

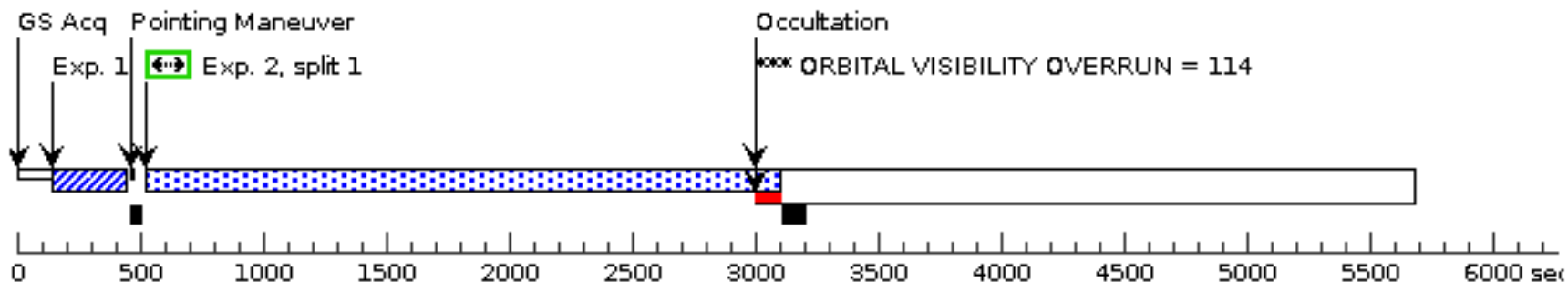


Proposal 17106 - NGC 7714 (25) - A Novel View of Local Star-Forming Galaxies With COS

Visit	Proposal 17106, NGC 7714 (25), completed										Fri Dec 20 15:00:28 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnostics	(NGC 7714 (25)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(NGC 7714 (25)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(NGC 7714 (25)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(NGC 7714 (25)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Fluxes		Miscellaneous	
	(9)	NGC-7714	RA: 23 36 14.1000 (354.0587500d)						V=14.36		Reference Frame: ICRS	
			Dec: +02 09 18.10 (2.15503d)									
			Equinox: J2000									
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	Category=GALAXY											
	Description=[STARBURST]											
	Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(1809328)	(9) NGC-7714	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				6 Secs (6 Secs)		
										[==>]		[1]
	2	(1732403)	(9) NGC-7714	COS/FUV, TIME-TAG, PSA		G130M	BUFFER-TIME=29			2680 Secs (10415 Secs)		
						1096 A	00;			[==>2375.0 Secs (Split 1)]		[1]
							FP-POS=ALL;			[==>(Split 2)]		[2]
							FLASH=YES			[==>(Split 3)]		[3]
										[==>(Split 4)]		[4]

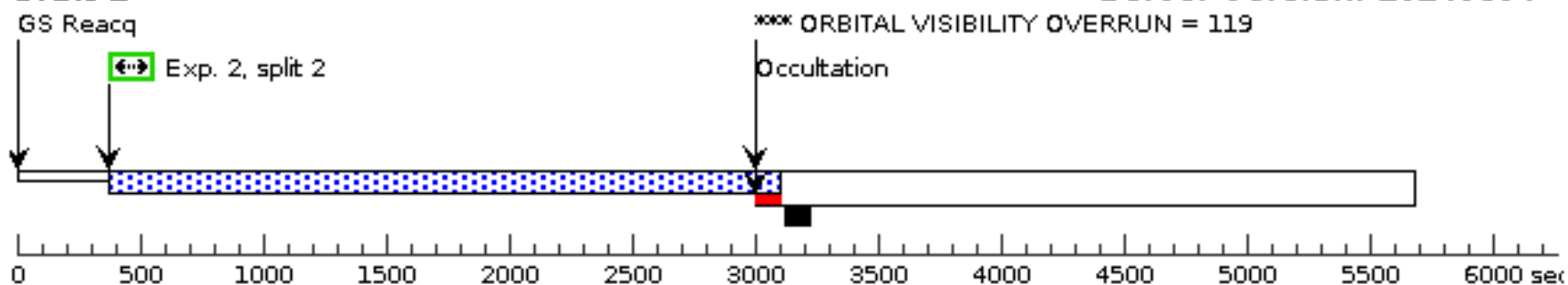
Orbit 1

Server Version: 20240604



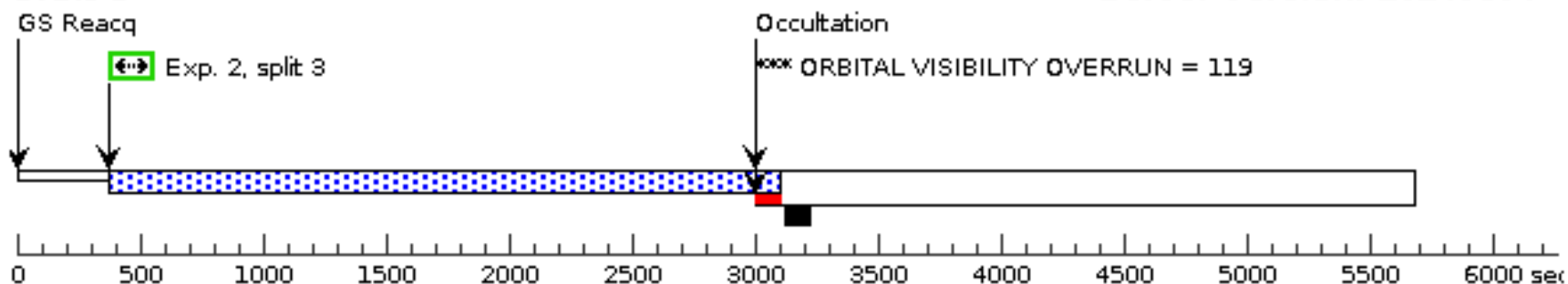
Orbit 2

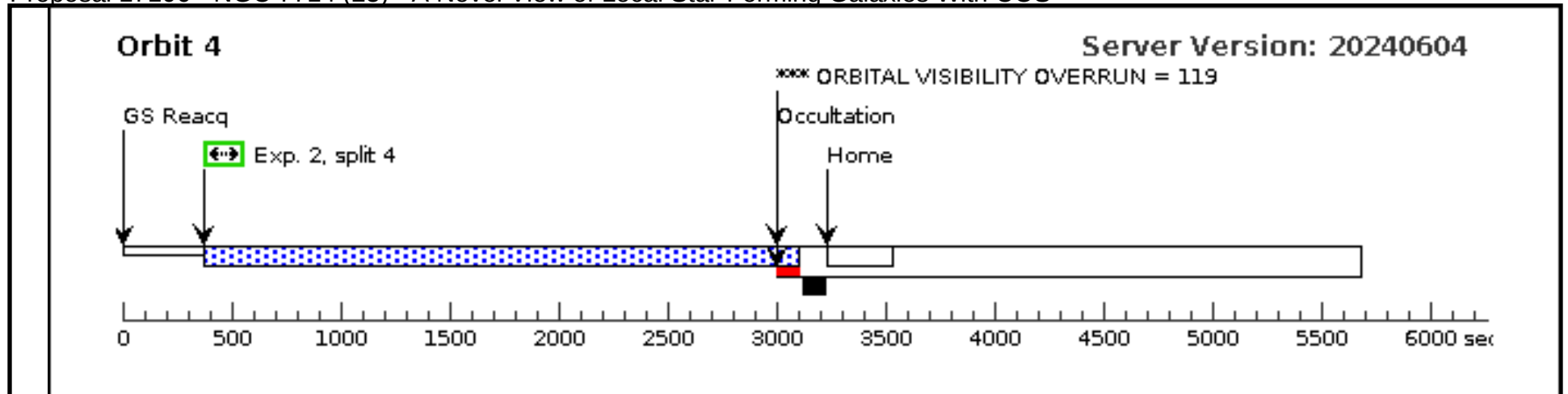
Server Version: 20240604



Orbit 3

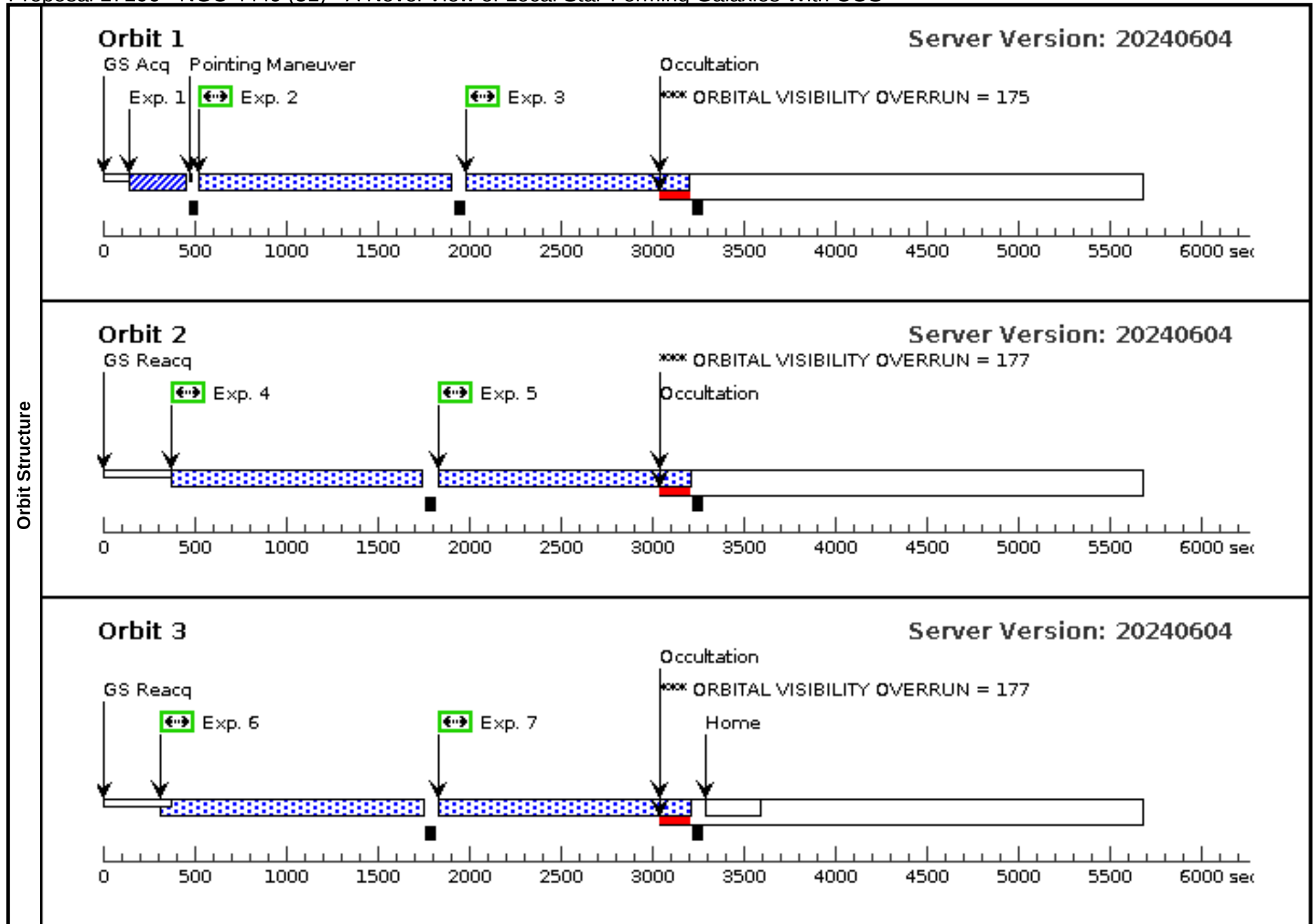
Server Version: 20240604



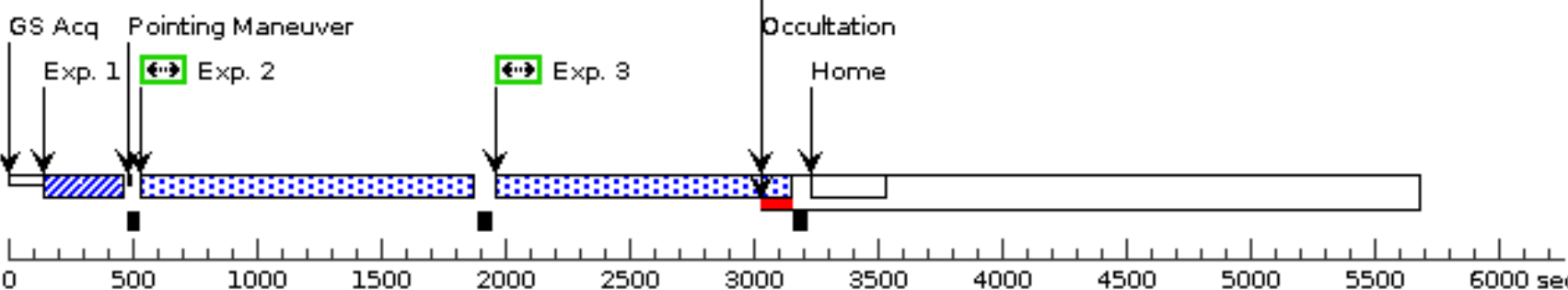


Proposal 17106 - NGC 4449 (51) - A Novel View of Local Star-Forming Galaxies With COS

Visit	Proposal 17106, NGC 4449 (51), failed										Fri Dec 20 15:00:28 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnostics	(NGC 4449 (51)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS											
	(NGC 4449 (51)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(NGC 4449 (51)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(NGC 4449 (51)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(6)	NGC-4449	RA: 12 28 11.0900 (187.0462083d) Dec: +44 05 37.06 (44.09363d) Equinox: J2000				V=9.64 F(1150)=2e-14		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	Category=GALAXY Description=[STARBURST] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(1809504)	(6) NGC-4449	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				10 Secs (10 Secs)			
									[==>]		[1]	
	2	(1732396)	(6) NGC-4449	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=1			1135 Secs (1169 Secs)			
									[==>1169.0 Secs]		[1]	
	3	(1732396)	(6) NGC-4449	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=2			1135 Secs (1169 Secs)			
									[==>1169.0 Secs]		[1]	
	4	(1732396)	(6) NGC-4449	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=3			1290 Secs (1319 Secs)			
									[==>1319.0 Secs]		[2]	
	5	(1732396)	(6) NGC-4449	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=4			1300 Secs (1329 Secs)			
									[==>1329.0 Secs]		[2]	
	6	(1732396)	(6) NGC-4449	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=3			1295 Secs (1324 Secs)			
									[==>1324.0 Secs]		[3]	
	7	(1732396)	(6) NGC-4449	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=4			1295 Secs (1324 Secs)			
									[==>1324.0 Secs]		[3]	



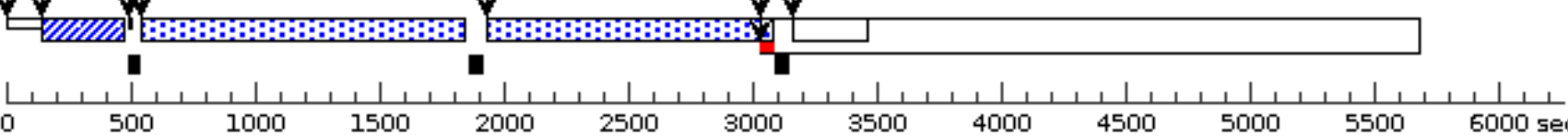
Proposal 17106 - NGC 3991 (52) - A Novel View of Local Star-Forming Galaxies With COS

Visit	Proposal 17106, NGC 3991 (52), completed										Fri Dec 20 15:00:28 GMT 2024									
	Diagnostic Status: Warning																			
	Scientific Instruments: COS/FUV, COS/NUV																			
	Special Requirements: (none)																			
Diagnostics	(NGC 3991 (52)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave.																			
	(NGC 3991 (52)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																			
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous										
	(4)	NGC-3991		RA: 11 57 31.6800 (179.3820000d) Dec: +32 20 30.12 (32.34170d) Equinox: J2000				V=13.11 F(1150)=2e-14		Reference Frame: ICRS										
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.																			
	Category=GALAXY Description=[STARBURST] Extended=NO																			
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.		Opt. Params.		Special Reqs.		Groups		Exp. Time (Total)/[Actual Dur.]		Orbit				
	1	(1809360)	(4) NGC-3991	COS/NUV, ACQ/IMAGE, PSA		MIRRORB								15 Secs (15 Secs)						
														[==>]		[1]				
	2	(1732396)	(4) NGC-3991	COS/FUV, TIME-TAG, PSA		G130M 1096 A		BUFFER-TIME=32 00; FLASH=YES; FP-POS=1						1135 Secs (1135 Secs)						
														[==>]		[1]				
	3	(1732396)	(4) NGC-3991	COS/FUV, TIME-TAG, PSA		G130M 1096 A		BUFFER-TIME=32 00; FLASH=YES; FP-POS=2						1135 Secs (1135 Secs)						
													[==>]		[1]					
Orbit Structure	Orbit 1 Server Version: 20240604 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home ORBITAL VISIBILITY OVERRUN = 132 																			

Proposal 17106 - NGC 4449 (53) - A Novel View of Local Star-Forming Galaxies With COS

Visit	Proposal 17106, NGC 4449 (53), completed										Fri Dec 20 15:00:28 GMT 2024										
	Diagnostic Status: Warning																				
	Scientific Instruments: COS/FUV, COS/NUV																				
	Special Requirements: (none)																				
Diagnostics	(NGC 4449 (53)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave.																				
	(NGC 4449 (53)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																				
Fixed Targets	#	Name		Target Coordinates				Targ. Coord. Corrections				Fluxes				Miscellaneous					
	(6)	NGC-4449		RA: 12 28 11.0900 (187.0462083d)								V=9.64				Reference Frame: ICRS					
				Dec: +44 05 37.06 (44.09363d)								F(1150)=2e-14									
				Equinox: J2000																	
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.																				
	Category=GALAXY																				
	Description=[STARBURST]																				
	Extended=NO																				
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture				Spectral Els.		Opt. Params.		Special Reqs.		Groups		Exp. Time (Total)/[Actual Dur.]				Orbit	
	1	(1809504)	(6) NGC-4449	COS/NUV, ACQ/IMAGE, PSA				MIRRORB								10 Secs (10 Secs)					
																[==>]				[1]	
	2	(1732396)	(6) NGC-4449	COS/FUV, TIME-TAG, PSA				G130M 1096 A		BUFFER-TIME=32 00;						1135 Secs (1169 Secs)					
										FLASH=YES;						[==>1169.0 Secs]				[1]	
										FP-POS=1											
	3	(1732396)	(6) NGC-4449	COS/FUV, TIME-TAG, PSA				G130M 1096 A		BUFFER-TIME=32 00;						1135 Secs (1169 Secs)					
									FLASH=YES;						[==>1169.0 Secs]				[1]		
									FP-POS=2												
Orbit Structure	Orbit 1 Server Version: 20240604 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home ORBITAL VISIBILITY OVERRUN = 175																				

Proposal 17106 - NGC 5253 (54) - A Novel View of Local Star-Forming Galaxies With COS

Visit	Proposal 17106, NGC 5253 (54), completed										Fri Dec 20 15:00:28 GMT 2024										
	Diagnostic Status: Warning																				
	Scientific Instruments: COS/FUV, COS/NUV																				
	Special Requirements: (none)																				
Diagnostics	(NGC 5253 (54)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave.																				
	(NGC 5253 (54)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																				
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections				Fluxes				Miscellaneous						
	(8)	NGC-5253	RA: 13 39 55.9900 (204.9832917d) Dec: -31 38 24.59 (-31.64016d) Equinox: J2000								V=10.49 F(1150)=2e-14				Reference Frame: ICRS						
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.																				
	Category=GALAXY Description=[STARBURST] Extended=NO																				
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture				Spectral Els.		Opt. Params.		Special Reqs.		Groups		Exp. Time (Total)/[Actual Dur.]				Orbit	
	1	(1809507)	(8) NGC-5253	COS/NUV, ACQ/IMAGE, PSA				MIRRORB								20 Secs (20 Secs)					
															[==>]				[1]		
	2	(1732396)	(8) NGC-5253	COS/FUV, TIME-TAG, PSA				G130M 1096 A		BUFFER-TIME=32 00; FLASH=YES; FP-POS=1						1095 Secs (1095 Secs)					
															[==>]				[1]		
3	(1732396)	(8) NGC-5253	COS/FUV, TIME-TAG, PSA				G130M 1096 A		BUFFER-TIME=32 00; FLASH=YES; FP-POS=2						1095 Secs (1095 Secs)						
														[==>]				[1]			
Orbit Structure	Orbit 1 Server Version: 20240604																				
	GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home ORBITAL VISIBILITY OVERRUN = 62 																				

Proposal 17106 - NGC 5253 (55) - A Novel View of Local Star-Forming Galaxies With COS

Visit	Proposal 17106, NGC 5253 (55), completed										Fri Dec 20 15:00:28 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnostics	(NGC 5253 (55)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS											
	(NGC 5253 (55)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(NGC 5253 (55)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(NGC 5253 (55)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(8)	NGC-5253	RA: 13 39 55.9900 (204.9832917d) Dec: -31 38 24.59 (-31.64016d) Equinox: J2000				V=10.49 F(1150)=2e-14		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	Category=GALAXY Description=[STARBURST] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(1809507)	(8) NGC-5253	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				20 Secs (20 Secs)			
									[==>]		[1]	
	2	(1732396)	(8) NGC-5253	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=1			1095 Secs (1095 Secs)			
									[==>]		[1]	
	3	(1732396)	(8) NGC-5253	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=2			1095 Secs (1095 Secs)			
									[==>]		[1]	
	4	(1732396)	(8) NGC-5253	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=3			1280 Secs (1280 Secs)			
									[==>]		[2]	
	5	(1732396)	(8) NGC-5253	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=4			1289 Secs (1289 Secs)			
									[==>]		[2]	
	6	(1732396)	(8) NGC-5253	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=3			1285 Secs (1285 Secs)			
									[==>]		[3]	
	7	(1732396)	(8) NGC-5253	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=32 00; FLASH=YES; FP-POS=4			1284 Secs (1284 Secs)			
									[==>]		[3]	

