



17490 - A Local Lyman Continuum Leaker: Direct and Indirect Detections with KISSB 85

Cycle: 31, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Alec S. Hirschauer (PI) (Contact)	Morgan State University
Samantha Wallis Brunker (CoI)	Indiana University System
Prof. John J. Salzer (CoI)	Indiana University System
Dr. Svea S Hernandez (CoI) (ESA Member)	Space Telescope Science Institute - ESA - JWST
Dr. Bethan Lesley James (CoI) (ESA Member)	Space Telescope Science Institute - ESA - JWST
Dr. Alessandra Aloisi (CoI)	Space Telescope Science Institute
Dr. Matilde Mingozi (CoI) (ESA Member)	Space Telescope Science Institute - ESA - JWST
Dr. Logan H Jones (CoI)	Space Telescope Science Institute
Dr. Claus Leitherer (CoI)	Space Telescope Science Institute
Dr. Swara Ravindranath (CoI)	Catholic University of America

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) KISS-F1205-5985	COS/FUV COS/NUV	5	08-Jan-2026 14:00:39.0	yes
02	(1) KISS-F1205-5985	COS/FUV COS/NUV	3	08-Jan-2026 14:00:40.0	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>
03	(1) KISS-F1205-5985	COS/FUV COS/NUV	2	08-Jan-2026 14:00:41.0	yes
04	(1) KISS-F1205-5985	COS/FUV COS/NUV	3	08-Jan-2026 14:00:41.0	yes
05	(1) KISS-F1205-5985	COS/FUV COS/NUV	1	08-Jan-2026 14:00:42.0	yes
06	(1) KISS-F1205-5985	COS/FUV COS/NUV	1	08-Jan-2026 14:00:42.0	yes

15 Total Orbits Used

ABSTRACT

The specific mechanisms responsible for the reionization of the Universe remain poorly understood. While it is generally accepted that this period of transformation was primarily a consequence of highly-ionizing Lyman continuum (LyC) radiation leaking from high-redshift star-forming galaxies (SFGs), their direct detection is observationally precluded due to the high opacities of the ubiquitous intergalactic medium. Local analogs to these systems, with attributes which mirror the environments of the early Universe such as high ionization and low metal abundances, represent our best accessible means to obtain detailed measurements of LyC photons. We propose for COS far-ultraviolet (FUV) observations of the candidate LyC leaker KISSB 85, a nearby ($z = 0.046$; $D = 206$ Mpc), metal-poor ($12+\log(\text{O}/\text{H}) = 7.42$; $\sim 5\% Z_{\text{solar}}$), high-ionization ($\text{O}32 = 17.3$) SFG. This dwarf system possesses similar characteristics to early-Universe LyC leakers, but is nearby enough to allow for meticulous examination of its radiation profile. In addition, we will utilize these direct detections to examine an indirect means for estimating LyC with the saturated C II 1334.5 Å absorption feature, which will allow for a broader understanding of the mechanisms which enable LyC leakage. With measurement of the Lyman-alpha line profile, we will study the neutral gas properties of this high- z analog system, and through efforts fitting the spectral profile with two different theoretical models, we will characterize the metallicity, age, and dust attenuation of the observed young, massive stellar population which produces the ionizing radiation, supporting current efforts being undertaken with JWST.

OBSERVING DESCRIPTION

We are observing the Lyman continuum (LyC) leaker candidate KISSB 85. This is a nearby ($z = 0.046$; $D = 206$ Mpc), metal-poor ($12+\log(\text{O}/\text{H}) = 7.42$; $\sim 5\% Z_{\text{solar}}$), high-ionization ($\text{O}32 = 17.3$) star-forming galaxy. Observations will be undertaken utilizing HST/COS far-ultraviolet (far-UV) spectroscopy with the G140L grating and cenwave 800, which will recover LyC photons ($\lambda_{\text{observed}} < 954.3$ Å) directly. Additionally, we

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will observe with HST/COS grating G130M and cenwave 1291, which will detect Lyman-alpha (Lya) photons ($\lambda_{\text{observed}} = 1272.0 \text{ \AA}$), as well as the C II 1334.5 \AA spectral feature ($\lambda_{\text{observed}} = 1396.4 \text{ \AA}$), which has proven a reliable proxy for measuring the LyC escape fraction when direct observations are precluded. This will enable us to better understand the mechanism(s) facilitating the escape of ionizing photons which are capable of ionizing the early Universe in the nearby, high-redshift star-forming galaxy analog KISSB 85. In addition, we will characterize Lya itself and, employing the near-UV target acquisition images, we will study the morphology of this compact system as well.

The exposure time necessary to acquire an ACQ/IMAGE with $S/N = 20$ was preliminarily calculated by the exposure time calculator (ETC) to be 219.25 seconds, which is much less than one orbit. G140L/800 spectroscopy of LyC photons with $S/N = 2-3$ was computed with the ETC to take 21,353.86 seconds, or approximately 6.7 orbits. G130M/1291 spectroscopy of Lya emission ($S/N = 20$) and the indirect C II feature ($S/N > 5$) was computed with the ETC to take 3,429.93 seconds, or approximately 1.0 orbits. The total exposure time is estimated to require eight orbits.

Our observing strategy will be to split our eight orbits into two separate visits, as scheduling is limited to five orbits at a time, avoiding visits of four orbits, whenever possible. We therefore will conduct a first visit of five orbits, which will begin with an imaging acquisition. The remainder of this first orbit will then be taken up entirely with an exposure of G140L/800 at FP-POS = 1. The subsequent three orbits (orbits 2, 3, and 4 of visit 1) will each be entirely comprised of G140L/800 exposures, at FP-POS = 2, 3, and 4, respectively. Finally, the last orbit of this visit (orbit 5) will be split between the two allowed G130M/1291 FP-POS settings (3 and 4).

The second visit will then be three orbits, which will again begin with an imaging acquisition. Once again, the remainder of this first orbit will be entirely taken up with an exposure of G140L/800 at FP-POS = 1. Orbit 2 will be split evenly between G140L/800 FP-POS = 2 and 3. Finally, the last orbit of the visit (orbit 3) will be entirely dedicated to G140L/800 FP-POS = 4.

This strategy results in uneven exposure times for the four FP-POS settings of G140L/800, with emphasis on FP-POS = 4. This is because, of the four FP-POS possible, FP-POS = 4 goes to the shortest wavelength, which will give us the best possible chance at recovering LyC photons. The total exposure time for each of the four G140L/800 FP-POS settings are as follows:

FP-POS	First Integration	Second Integration	Total Exposure Time
1	1909 seconds	1909 seconds	3818 seconds
2	2688 seconds	1286 seconds	3974 seconds

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3	2688 seconds	1286 seconds	3974 seconds
4	2688 seconds	2688 seconds	5376 seconds

We note that, comparing the ETC computations made for this APT Phase II file with those made for the initial Phase I submission in May 2023, there had been a version update of pyETC (v31.1 to v31.2) within which the dark rates (as reported via monitoring by the HST/COS Instrument Team) were elevated significantly. This has the effect of requiring a longer science integration time to achieve the same S/N. Due to the necessities of the strategy outlined here, including time lost to overheads, the number of orbits which will be dedicated to G140L/800 (~6.5) is a bit less than proposed for (~6.7). This has the consequence of potentially lowering the S/N expected for LyC photons, however as we expect to bin heavily below the Lyman Break in effort to recover said photons, this should not be a problem.

Here now is a summary of the observing program strategy:

Visit	Orbit	Mode	FP-POS	Exp. Time	ETC#
1	1	IMAGE/ACQ	N/A	221 sec	COS.ta.1888782
1	1	G140L/800	1	1909 sec	COS.sp.1888785
1	2	G140L/800	2	2686 sec	COS.sp.1888786
1	3	G140L/800	3	2686 sec	COS.sp.1888786
1	4	G140L/800	4	2686 sec	COS.sp.1888786
1	5	G130M/1291	3	1285 sec	COS.sp.1888783
1	5	G130M/1291	4	1285 sec	COS.sp.1888783
2	1	IMAGE/ACQ	N/A	221 sec	COS.ta.1888782
2	1	G140L/800	1	1909 sec	COS.sp.1888785
2	2	G140L/800	2	1286 sec	COS.sp.1888784
2	2	G140L/800	3	1286 sec	COS.sp.1888784
2	3	G140L/800	4	2686 sec	COS.sp.1888786

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BUFFER-TIME values for science exposures were set to be $2/3 * \text{Buffer Fill Time}$ reported in the ETC calculations. For the G140L/800 observations, $10,101 \text{ sec} * 2/3 = 6,734 \text{ sec}$. For the G130M/1291 observations, $5,883 \text{ sec} * 2/3 = 3,922 \text{ sec}$.

UPDATE (1 July 2024): Due to HST now operating under reduced gyro mode (RGM), the usable exposure duration per orbit has been reduced further. In addition, at this point in time the ETC version has been updated to 32.2. Here are updated records for the ETC runs, where the BUFFER-TIME has been revised to reflect the constraints of the exposure times.

(G140L/800)

FP-POS	First Integration	Second Integration	Total Exposure Time
1	1860 seconds	1860 seconds	3720 seconds
2	2588 seconds	1236 seconds	3824 seconds
3	2588 seconds	1237 seconds	3825 seconds
4	2588 seconds	2588 seconds	5176 seconds

(observing program summary)

Visit	Orbit	Mode	FP-POS	Exp. Time	ETC#
1	1	IMAGE/ACQ	N/A	221 sec	COS.ta.1888782
1	1	G140L/800	1	1860 sec	COS.sp.1926681
1	2	G140L/800	2	2588 sec	COS.sp.1926380
1	3	G140L/800	3	2588 sec	COS.sp.1926380
1	4	G140L/800	4	2588 sec	COS.sp.1926380
1	5	G130M/1291	3	1216 sec	COS.sp.1926381
1	5	G130M/1291	4	1217 sec	COS.sp.1926381
2	1	IMAGE/ACQ	N/A	221 sec	COS.ta.1888782
2	1	G140L/800	1	1860 sec	COS.sp.1926681
2	2	G140L/800	2	1236 sec	COS.sp.1926678

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2	2	G140L/800	3	1237 sec	COS.sp.1926678
2	3	G140L/800	4	2588 sec	COS.sp.1926380

UPDATE (21 January 2025): Due to failed observations for both Visit 01 (partial) and 02 (complete), I have had to revise the APT file. In short, the first three Orbits for Visit 01 executed successfully, but the final two Orbits failed. My repeat for Visit 01 (which will be Visit 03) will therefore consist of one Orbit consisting of an imaging target acquisition, then FP-POS = 3 and 4 of G130M/1291, followed by a second Orbit consisting entirely of G140L/800 FP-POS = 4. The repeat for Visit 02 (which will be Visit 04) is simply a like for like repeat.

By squeezing the IMAGE/ACQ with the two G130M/1291 FP-POS settings into one orbit, I've had to reduce the observing time for the science exposures, in effort to keep the G140L/800 observation integrating as long as possible.

(observing program summary)

Visit	Orbit	Mode	FP-POS	Exp. Time	ETC#
3	1	IMAGE/ACQ	N/A	221 sec	COS.ta.1888782
3	1	G130M/1291	3	876 sec	COS.sp.1947976
3	1	G130M/1291	4	876 sec	COS.sp.1947976
3	2	G140L/800	4	2588 sec	COS.sp.1926380
4	1	IMAGE/ACQ	N/A	221 sec	COS.ta.1888782
4	1	G140L/800	1	1860 sec	COS.sp.1926681
4	2	G140L/800	2	1236 sec	COS.sp.1926678
4	2	G140L/800	3	1237 sec	COS.sp.1926678
4	3	G140L/800	4	2588 sec	COS.sp.1926380

UPDATE (8 December 2025): Due to a failed observation for Visit 03, I am revising the APT file. In short, it appears that, of the two Orbits for Visit 03, Orbit one (IMAGE/ACQ, then G130M/1291 FP-POS = 3 and 4) failed, but Orbit two (G140L/800) succeeded. Svea submitted a HOPR request to re-do the failed Orbit, which was approved, so I am going to have a new Visit 05 that consists only of the IMAGE/ACQ and G130M/1291

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FP-POS = 3 and 4 exposures. This will simply be a like for like repeat of Visit 03 Orbit one, since G140L/800 (Orbit two) was unaffected. The Visit 04 has yet to happen, so I will leave that as is.

Because the length of orbital visibility has apparently decreased slightly since the last time I re-submitted this program, a small amount of time had to be shaved off from each of the G130M/1291 exposures in order for the proposed observations to fit within a single orbit, and maintaining the IMAGE/ACQ exposure duration. As a consequence, the G130M/1291 FP-POS = 3 and 4 exposure times have been reduced from 876 to 867 seconds each. These changes have been documented with a new ETC simulation in the Table below. There is consequently a slightly reduced expected S/N for these exposures.

(observing program summary)

Visit	Orbit	Mode	FP-POS	Exp. Time	ETC#
4	1	IMAGE/ACQ	N/A	221 sec	COS.ta.1888782
4	1	G140L/800	1	1860 sec	COS.sp.1926681
4	2	G140L/800	2	1236 sec	COS.sp.1926678
4	2	G140L/800	3	1237 sec	COS.sp.1926678
4	3	G140L/800	4	2588 sec	COS.sp.1926380
5	1	IMAGE/ACQ	N/A	221 sec	COS.ta.1888782
5	1	G130M/1291	3	867 sec	COS.sp.2260162
5	1	G130M/1291	4	867 sec	COS.sp.2260162

UPDATE (8 January 2026): Due to a failed observation for Visit 05, I am revising the APT file. In short, it appears that, for the single Orbit for Visit 05, the G130M/1291 FP-POS = 3 and 4 observations failed. I submitted a HOPR request which was approved, so I am going to have a new Visit 06 that consists only of the IMAGE/ACQ and G130/1291 FP-POS = 3 and 4 exposures. This will simply be a like for like repeat of Visit 05. Since the last time I had to revise the APT file was very recently, none of the observing parameters have changed, and so the program summary is in the Table below.

(observing program summary)

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Visit	Orbit	Mode	FP-POS	Exp. Time	ETC#
6	1	IMAGE/ACQ	N/A	221 sec	COS.ta.1888782
6	1	G130M/1291	3	867 sec	COS.sp.2260162
6	1	G130M/1291	4	867 sec	COS.sp.2260162

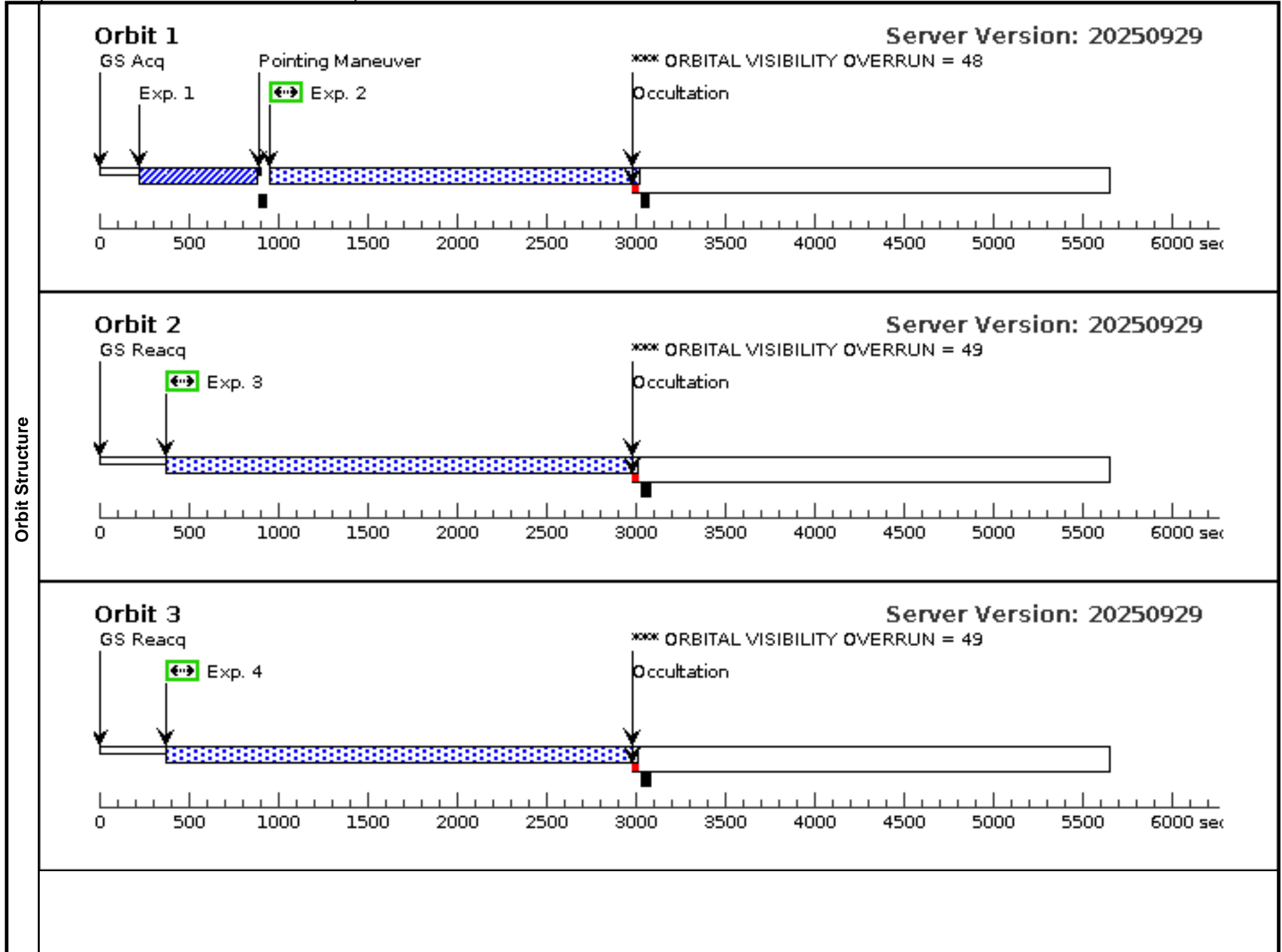
Proposal 17490 - Visit 01 - A Local Lyman Continuum Leaker: Direct and Indirect Detections with KISSB 85

Thu Jan 08 19:00:43 GMT 2026

Visit	<p>Proposal 17490, Visit 01, failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p>					
Diagnostics	<p>(Visit 01) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 01) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 01) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 01) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 01) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 2 (Visit 01)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 3 (Visit 01)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 4 (Visit 01)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 5 (Visit 01)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 6 (Visit 01)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 7 (Visit 01)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p>					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	KISS-F1205-5985	RA: 12 06 47.5459 (181.6981079d) Dec: +29 20 33.26 (29.34257d) Equinox: J2000	Epoch of Position: 2000 Redshift: 0.046	V=19.27 m_B = 19.85, FUV (GALEX) AB = 20.1377 + /- 0.1793, g (SDSS model) AB = 19.016 +/ - 0.013	Reference Frame: ICRS
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>See http://ned.ipac.caltech.edu/byname?objname=KISSB+85&hconst=67.8&omegam=0.308&omegav=0.692&wmap=4&corr_z=1 for more "Other Fluxes".</i></p> <p><i>Category=GALAXY</i></p> <p><i>Description=[DWARF COMPACT, EMISSION LINE NEBULA, STARBURST]</i></p> <p><i>Extended=YES</i></p>					

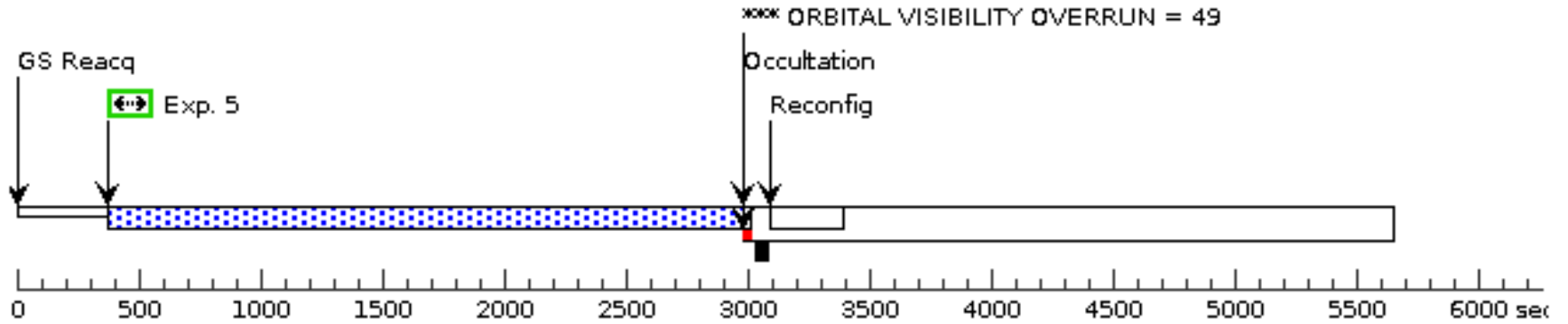
Proposal 17490 - Visit 01 - A Local Lyman Continuum Leaker: Direct and Indirect Detections with KISSB 85

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	(COS.ta.188 8782)	(1) KISS-F1205-598 5	COS/NUV, ACQ/IMAGE, PSA	MIRRORA					221 Secs (221 Secs)	
									[==>]	[1]	
	2	(COS.sp.192 6681)	(1) KISS-F1205-598 5	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=78 06				1860 Secs (1860 Secs)	
									[==>]	[1]	
		<i>Comments: Original BUFFER-TIME = 10101 seconds (from ETC's Buffer Fill Time) * 2/3 = 6734 seconds</i>									
		<i>New BUFFER-TIME = 11709 seconds (from ETC's Buffer Fill Time) * 2/3 = 7806 seconds</i>									
3	(COS.sp.192 6380)	(1) KISS-F1205-598 5	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=72 93				2588 Secs (2588 Secs)		
									[==>]	[2]	
	<i>Comments: Original BUFFER-TIME = 10101 seconds (from ETC's Buffer Fill Time) * 2/3 = 6734 seconds</i>										
	<i>New BUFFER-TIME = 10939 seconds (from ETC's Buffer Fill Time) * 2/3 = 7293 seconds</i>										
4	(COS.sp.192 6380)	(1) KISS-F1205-598 5	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=72 93				2588 Secs (2588 Secs)		
									[==>]	[3]	
	<i>Comments: Original BUFFER-TIME = 10101 seconds (from ETC's Buffer Fill Time) * 2/3 = 6734 seconds</i>										
	<i>New BUFFER-TIME = 10939 seconds (from ETC's Buffer Fill Time) * 2/3 = 7293 seconds</i>										
5	(COS.sp.192 6380)	(1) KISS-F1205-598 5	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=72 93				2588 Secs (2588 Secs)		
									[==>]	[4]	
	<i>Comments: Original BUFFER-TIME = 10101 seconds (from ETC's Buffer Fill Time) * 2/3 = 6734 seconds</i>										
	<i>New BUFFER-TIME = 10939 seconds (from ETC's Buffer Fill Time) * 2/3 = 7293 seconds</i>										
6	(COS.sp.192 6381)	(1) KISS-F1205-598 5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=42 79				1216 Secs (1216 Secs)		
									[==>]	[5]	
	<i>Comments: Original BUFFER-TIME = 5883 seconds (from ETC's Buffer Fill Time) * 2/3 = 3922 seconds</i>										
	<i>New BUFFER-TIME = 6418 seconds (from ETC's Buffer Fill Time) * 2/3 = 4279 seconds</i>										
7	(COS.sp.192 6381)	(1) KISS-F1205-598 5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=42 79				1217 Secs (1217 Secs)		
									[==>]	[5]	
	<i>Comments: Original BUFFER-TIME = 5883 seconds (from ETC's Buffer Fill Time) * 2/3 = 3922 seconds</i>										
	<i>New BUFFER-TIME = 6418 seconds (from ETC's Buffer Fill Time) * 2/3 = 4279 seconds</i>										



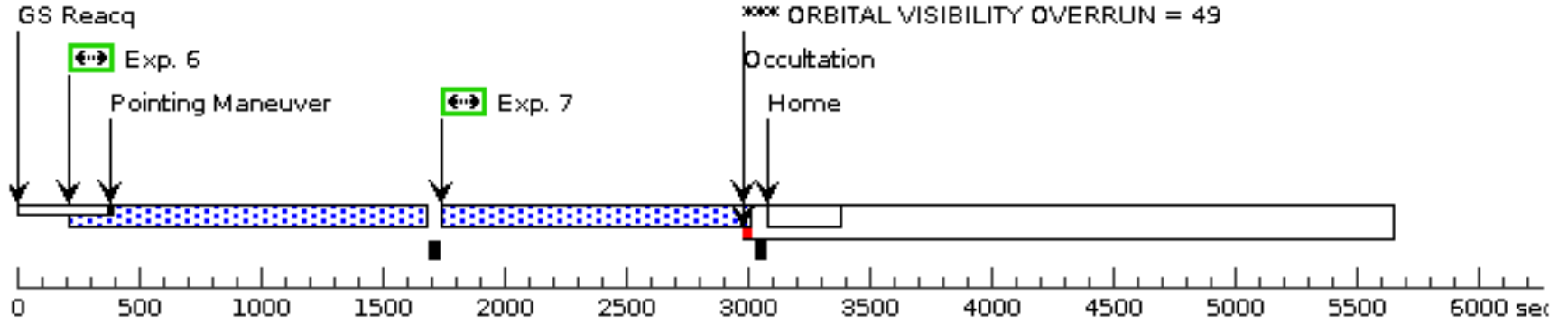
Orbit 4

Server Version: 20250929



Orbit 5

Server Version: 20250929



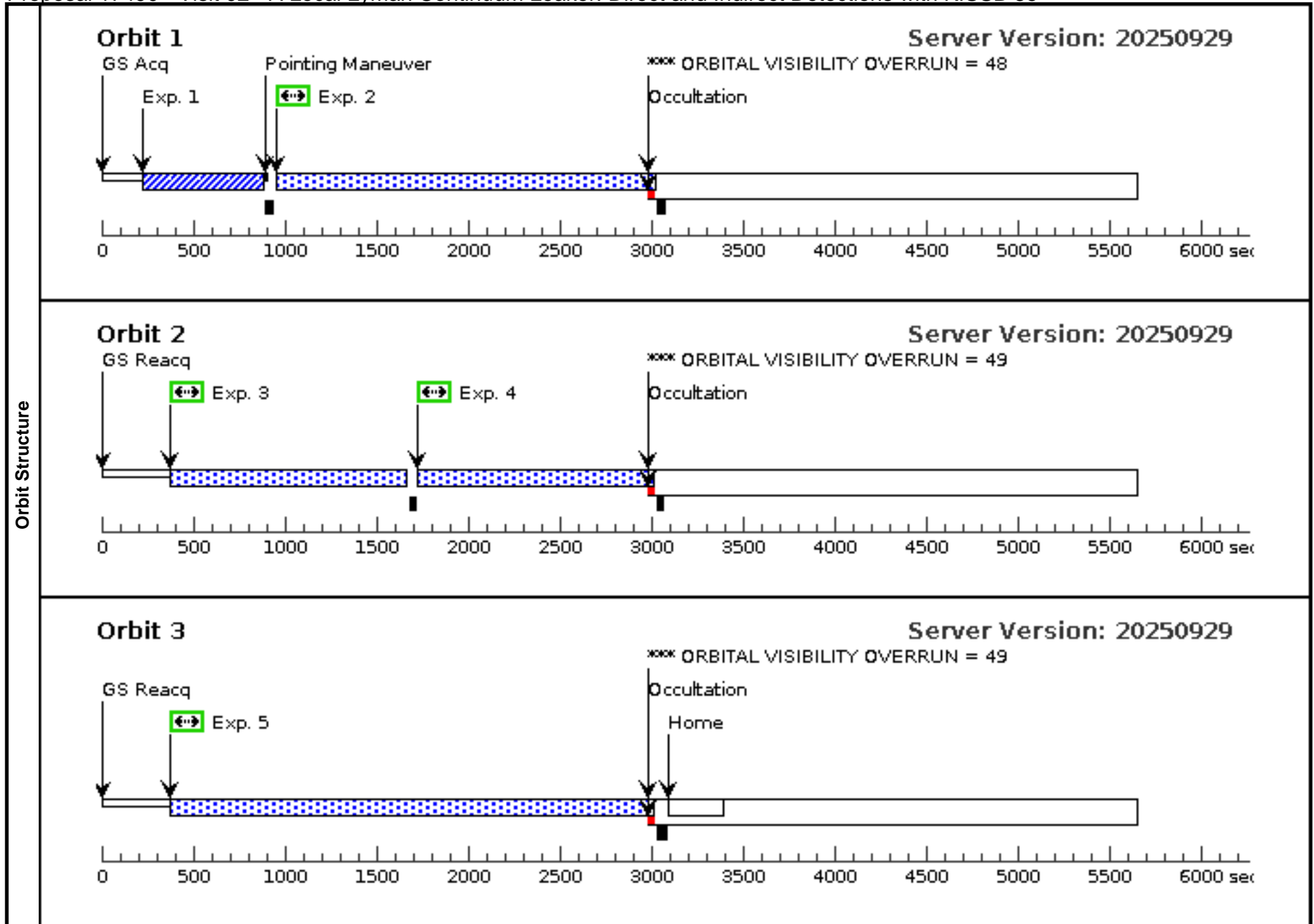
Proposal 17490 - Visit 02 - A Local Lyman Continuum Leaker: Direct and Indirect Detections with KISSB 85

Thu Jan 08 19:00:43 GMT 2026

Visit	<p>Proposal 17490, Visit 02, failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p>					
Diagnostics	<p>(Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 2 (Visit 02)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 3 (Visit 02)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 4 (Visit 02)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 5 (Visit 02)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p>					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	KISS-F1205-5985	RA: 12 06 47.5459 (181.6981079d) Dec: +29 20 33.26 (29.34257d) Equinox: J2000	Epoch of Position: 2000 Redshift: 0.046	V=19.27 m_B = 19.85, FUV (GALEX) AB = 20.1377 + /- 0.1793, g (SDSS model) AB = 19.016 +/ - 0.013	Reference Frame: ICRS
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>See http://ned.ipac.caltech.edu/byname?objname=KISSB+85&hconst=67.8&omegam=0.308&omegav=0.692&wmap=4&corr_z=1 for more "Other Fluxes".</i></p> <p><i>Category=GALAXY</i></p> <p><i>Description=[DWARF COMPACT, EMISSION LINE NEBULA, STARBURST]</i></p> <p><i>Extended=YES</i></p>					

Proposal 17490 - Visit 02 - A Local Lyman Continuum Leaker: Direct and Indirect Detections with KISSB 85

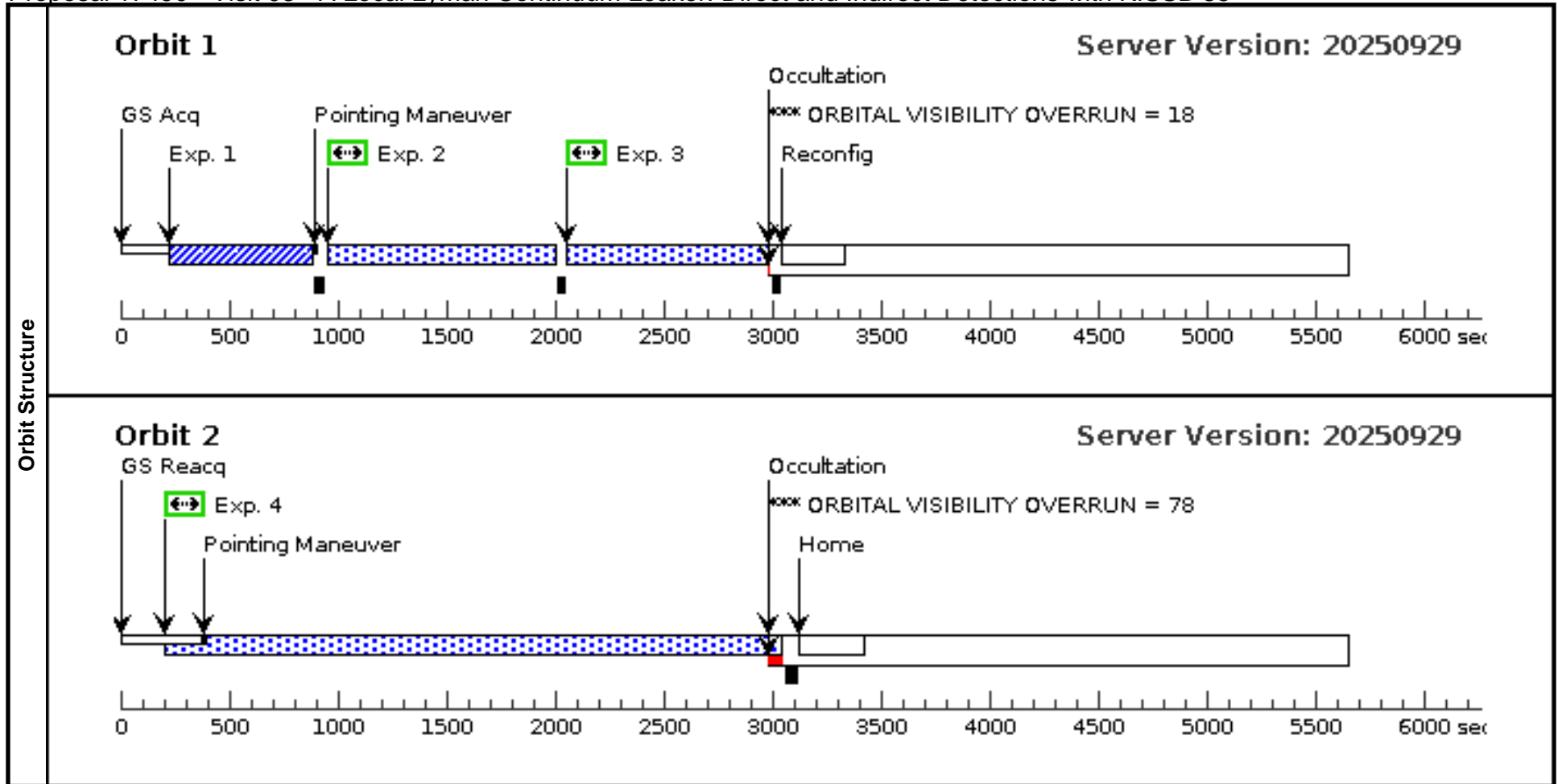
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	(COS.ta.188 8782)	(1) KISS-F1205-598 5	COS/NUV, ACQ/IMAGE, PSA	MIRRORA					221 Secs (221 Secs)	
										[==>]	[1]
	2	(COS.sp.192 6681)	(1) KISS-F1205-598 5	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=78 06				1860 Secs (1860 Secs)	
										[==>]	[1]
	<p><i>Comments: Original BUFFER-TIME = 10101 seconds (from ETC's Buffer Fill Time) * 2/3 = 6734 seconds</i></p> <p><i>New BUFFER-TIME = 11709 seconds (from ETC's Buffer Fill Time) * 2/3 = 7806 seconds</i></p>										
3	(COS.sp.192 6678)	(1) KISS-F1205-598 5	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=78 06				1236 Secs (1236 Secs)		
									[==>]	[2]	
	<p><i>Comments: Original BUFFER-TIME = 10101 seconds (from ETC's Buffer Fill Time) * 2/3 = 6734 seconds</i></p> <p><i>New BUFFER-TIME = 11709 seconds (from ETC's Buffer Fill Time) * 2/3 = 7806 seconds</i></p>										
4	(COS.sp.192 6678)	(1) KISS-F1205-598 5	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=78 06				1237 Secs (1237 Secs)		
									[==>]	[2]	
	<p><i>Comments: Original BUFFER-TIME = 10101 seconds (from ETC's Buffer Fill Time) * 2/3 = 6734 seconds</i></p> <p><i>New BUFFER-TIME = 11709 seconds (from ETC's Buffer Fill Time) * 2/3 = 7806 seconds</i></p>										
5	(COS.sp.192 6380)	(1) KISS-F1205-598 5	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=72 93				2588 Secs (2588 Secs)		
									[==>]	[3]	
	<p><i>Comments: Original BUFFER-TIME = 10101 seconds (from ETC's Buffer Fill Time) * 2/3 = 6734 seconds</i></p> <p><i>New BUFFER-TIME = 10939 seconds (from ETC's Buffer Fill Time) * 2/3 = 7293 seconds</i></p>										



Proposal 17490 - Visit 03 - A Local Lyman Continuum Leaker: Direct and Indirect Detections with KISSB 85

Thu Jan 08 19:00:43 GMT 2026

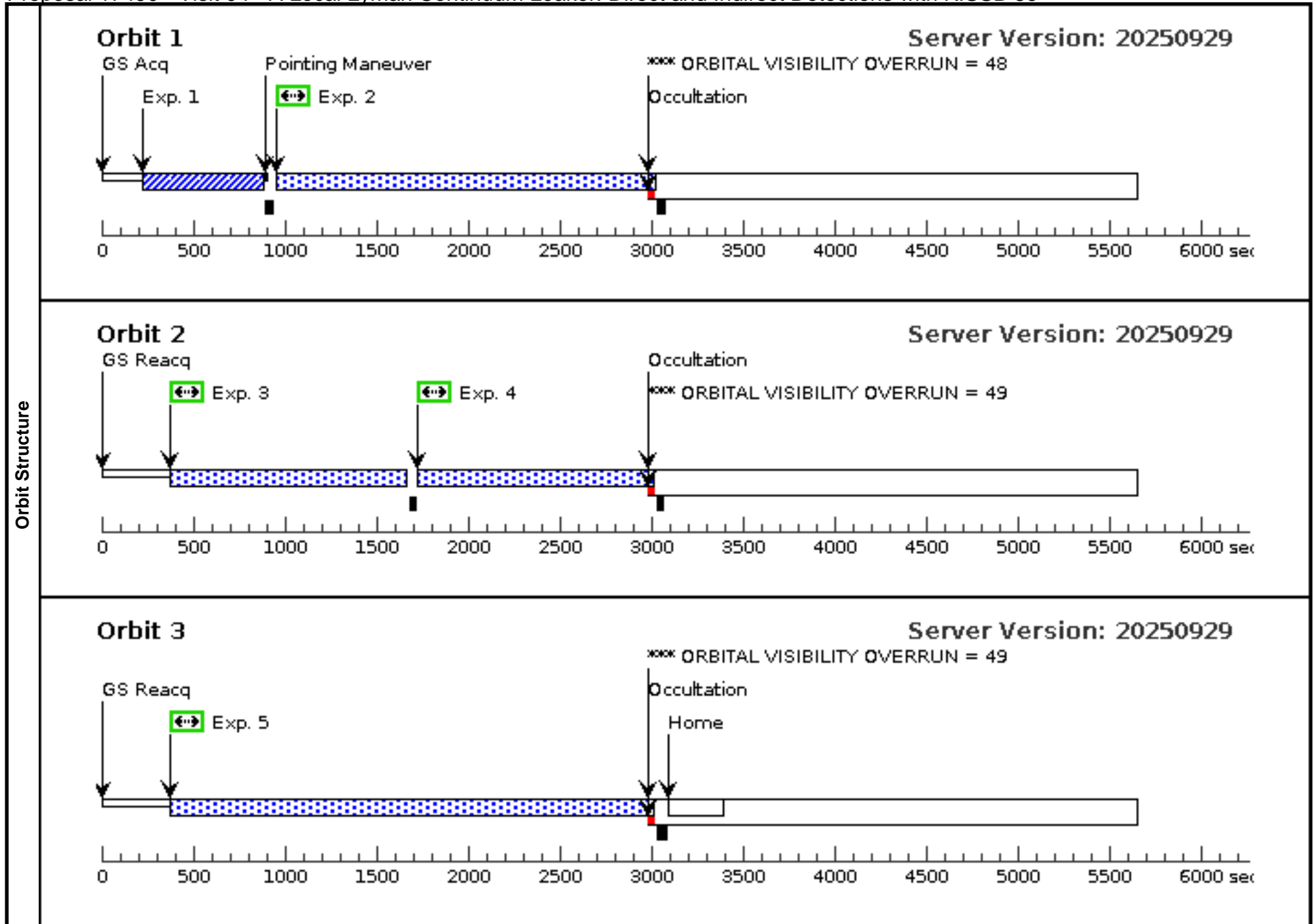
Visit	Proposal 17490, Visit 03, failed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																																																																																	
	Diagnostics	(Visit 03) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser. (Visit 03) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 03) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 2 (Visit 03)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details. (Exposure 3 (Visit 03)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details. (Exposure 4 (Visit 03)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.																																																																																																																																
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Proposal 17490 - Visit 04 - A Local Lyman Continuum Leaker: Direct and Indirect Detections with KISSB 85

Thu Jan 08 19:00:43 GMT 2026

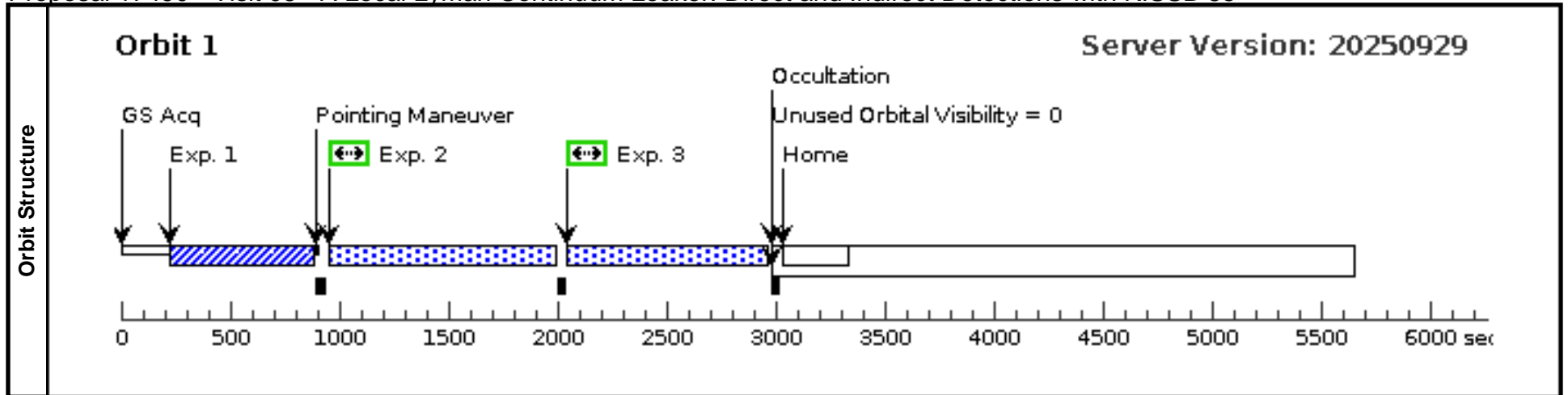
Visit	Proposal 17490, Visit 04, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																					
	Diagnostics	(Visit 04) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 04) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 04) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 2 (Visit 04)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details. (Exposure 3 (Visit 04)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details. (Exposure 4 (Visit 04)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details. (Exposure 5 (Visit 04)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.																																																																				
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	2	(COS.sp.192 6681)	(1) KISS-F1205-598 5	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=78 06			1860 Secs (1860 Secs) [==>]	[1]																																																												
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5	(COS.sp.192 6380)	(1) KISS-F1205-598 5	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=72 93			2588 Secs (2588 Secs) [==>]	[3]																																																													



Proposal 17490 - Visit 05 - A Local Lyman Continuum Leaker: Direct and Indirect Detections with KISSB 85

Thu Jan 08 19:00:44 GMT 2026

Visit	Proposal 17490, Visit 05, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Exposure 2 (Visit 05)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details. (Exposure 3 (Visit 05)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.									
Diagnostics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	KISS-F1205-5985	RA: 12 06 47.5459 (181.6981079d) Dec: +29 20 33.26 (29.34257d) Equinox: J2000	Epoch of Position: 2000 Redshift: 0.046	V=19.27 m_B = 19.85, FUV (GALEX) AB = 20.1377 + /- 0.1793, g (SDSS model) AB = 19.016 +/ - 0.013	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. See http://ned.ipac.caltech.edu/byname?objname=KISSB+85&hconst=67.8&omegam=0.308&omegav=0.692&wmap=4&corr_z=1 for more "Other Fluxes". Category=GALAXY Description=[DWARF COMPACT, EMISSION LINE NEBULA, STARBURST] Extended=YES										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.188 8782)	(1) KISS-F1205-598 5	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				221 Secs (221 Secs) [==>]	[1]
2	(COS.sp.194 7976)	(1) KISS-F1205-598 5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=48 71			876 Secs (867 Secs) [==>867.0 Secs]	[1]	
Comments: BUFFER-TIME = 7307 seconds (from ETC's Buffer Fill Time) * 2/3 = 4871 seconds										
3	(COS.sp.194 7976)	(1) KISS-F1205-598 5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=48 71			876 Secs (867 Secs) [==>867.0 Secs]	[1]	
Comments: BUFFER-TIME = 7307 seconds (from ETC's Buffer Fill Time) * 2/3 = 4871 seconds										



Proposal 17490 - Visit 06 - A Local Lyman Continuum Leaker: Direct and Indirect Detections with KISSB 85

Thu Jan 08 19:00:44 GMT 2026

Visit	Proposal 17490, Visit 06 Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																				
	(Exposure 2 (Visit 06)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details. (Exposure 3 (Visit 06)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.																																																																				
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