18099 - Uncovering the Ionizing Sources in Metal Poor Galaxies: UV Spectroscopy of an X-ray Observed Sample

Cycle: 33, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) J003710.56-092725.3	COS/FUV COS/NUV	1	26-Aug-2026 11:00:33.0	yes
02	(2) J143345.14+264915.2	COS/FUV COS/NUV	1	26-Aug-2026 11:00:33.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
03	(3) J023749.51-092556.1	COS/FUV COS/NUV	1	26-Aug-2026 11:00:34.0	yes
17	(3) J023749.51-092556.1	COS/FUV COS/NUV	1	26-Aug-2026 11:00:34.0	yes
04	(4) J131603.92+292254.1	COS/FUV COS/NUV	1	26-Aug-2026 11:00:34.0	yes
05	(5) J082730.65+192160.0	COS/FUV COS/NUV	1	26-Aug-2026 11:00:35.0	yes
06	(6) J131436.60+544753.7	COS/FUV COS/NUV	1	26-Aug-2026 11:00:35.0	yes
07	(7) J123733.71+085255.8	COS/FUV COS/NUV	2	26-Aug-2026 11:00:36.0	yes
08	(8) J155636.42+415250.5	COS/FUV COS/NUV	1	26-Aug-2026 11:00:36.0	yes
09	(9) J091934.54+481614.9	COS/FUV COS/NUV	2	26-Aug-2026 11:00:37.0	yes
10	(10) J122558.57+042826.4	COS/FUV COS/NUV	1	26-Aug-2026 11:00:37.0	yes
11	(11) J152322.14+124133.3	COS/FUV COS/NUV	2	26-Aug-2026 11:00:38.0	yes
12	(12) J095322.23+202655.0	COS/FUV COS/NUV	1	26-Aug-2026 11:00:38.0	yes
16	(12) J095322.23+202655.0	COS/FUV COS/NUV	1	26-Aug-2026 11:00:39.0	yes
13	(13) J112728.74+195112.3	COS/FUV COS/NUV	1	26-Aug-2026 11:00:39.0	yes
14	(14) J074231.57+273818.8	COS/FUV COS/NUV	1	26-Aug-2026 11:00:40.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
15	(16) J132549.42+330354.3	COS/FUV COS/NUV	1	26-Aug-2026 11:00:40.0	yes

20 Total Orbits Used

ABSTRACT

Recent investigations have shown that star-forming galaxies (SFGs) show signatures of hard ionizing spectra (based primarily on the presence of nebular He II 4686), with a rising fraction of SFGs showing these signatures with decreasing metallicity. While stellar population models struggle to reproduce these emission lines, emerging binary population synthesis models are showing promise in reproducing these spectral signatures. In this proposal, we aim to obtain critical UV spectroscopy with HST/COS (G140L) for a legacy sample of 15 metal-poor SFGs (MPGs) with Z ~ 0.03-0.2 Zsol that have or will have securely measured X-ray properties and span a range of optical ionization conditions. UV spectroscopy will provide unique emission/absorption-line diagnostics that aid in characterizing the stellar and nebular conditions, including photoionization versus shock signatures, ionizing spectral hardness, and stellar population ages that cannot be obtained from optical spectra. We will simultaneously model the UV spectra along with rich multiwavelength data suites from X-rays, SDSS spectra, and UV-to-IR photometry to obtain complete pictures of the shapes of intrinsic ionizing continuua of these galaxies, their detailed star-formation histories, and the role that binary populations play in powering extreme emission lines.

OBSERVING DESCRIPTION

We will conduct COS observations of an X-ray observed sample of 15 metal-poor star-forming galaxies (MPGs). We will use the COS FUV G140L/1105 Angstrom grating for our observations. This choice allows for the detection of features related to hard ionizing spectra (when present), including C iv 1550, He ii 1640, O iii] 1666, (when strong) C iii] 1908, as well as Lyalpha for our full sample (redshifts z = 0.017-0.045). NUV acquisition images of the targets will be obtained with Mirror B and the ACQ/IMAGE mode to reach a S/N > 15 inside a 9x9 pixel box centered on the brightest part of the galaxy. The MPGs satisfy safety conditions for observing with the COS, including lacking bright sources within a 43 arcsec diameter surrounding the sources. We estimated UV spectra exposures using the ETC, requiring S/N > 5 in the continuum at 1550 Angstrom. While our MPGs are compact in size, <= 40% of their total FUV fluxes will lie outside of the COS aperture. For the ETC we conservatively used 50% of the objects' total FUV fluxes, showing that exposures of ~500-3,000 s (1-2 orbits) are sufficient for our program.

Visit

Proposal 18099, J003710.56-092725.3 (01), completed Wed Aug 26 15:00:40 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(G140L Spec (01.002)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.

Fixed Targets

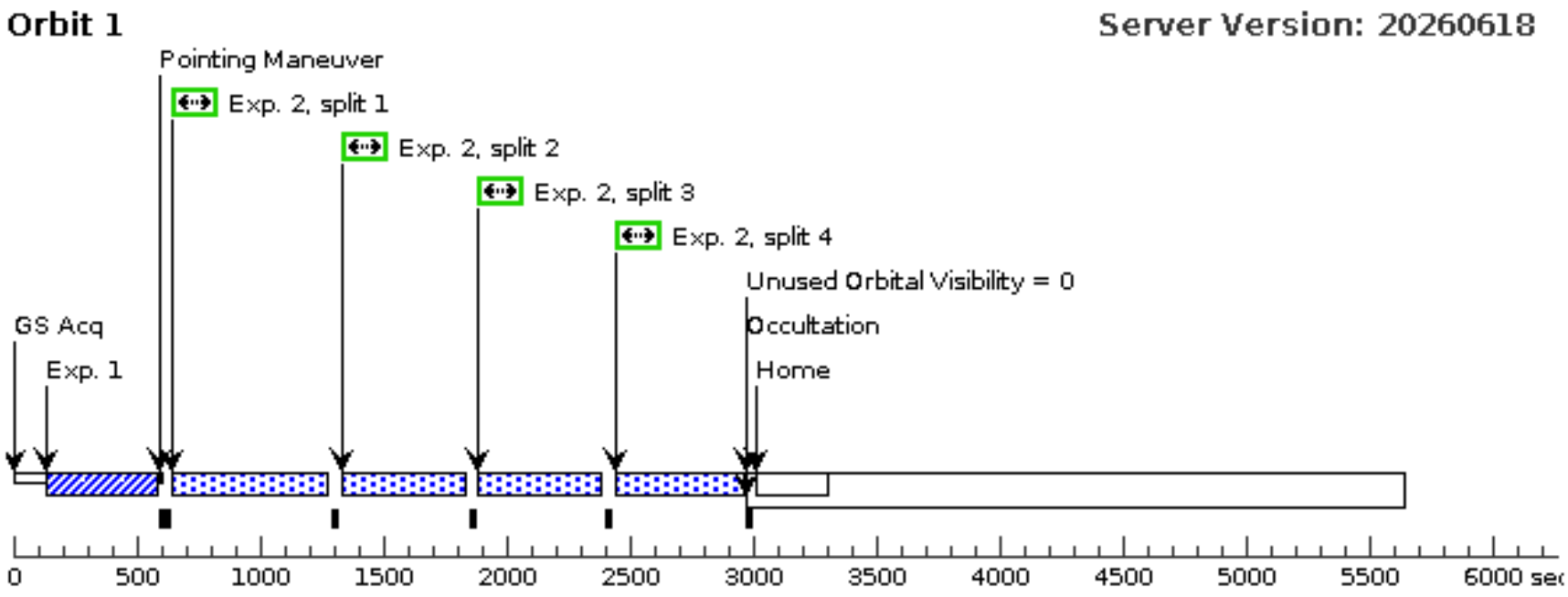
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	J003710.56-092725.3	RA: 00 37 10.5600 (9.2940000d) Dec: -09 27 25.25 (-9.45701d) Equinox: J2000	Redshift: 0.01744	V=14.8+/-0.05 FUV=16.90+/-0.01, NUV=16.56+/-0.01	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[DWARF COMPACT, 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	ACQ (COS.ta.2023401)	(1) J003710.56-092725.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				70 Secs (70 Secs) *[==>]*	***[1]***
2	G140L Spec (COS.sp.2022904)	(1) J003710.56-092725.3	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=7565; FLASH=YES; FP-POS=ALL; SEGMENT=A			450 Secs (1816 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>466.0 Secs (Split 4)]*	***[1]***

Orbit Structure



Visit

Proposal 18099, J143345.14+264915.2 (02), completed Wed Aug 26 15:00:40 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(G140L Spec (02.002)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.

Fixed Targets

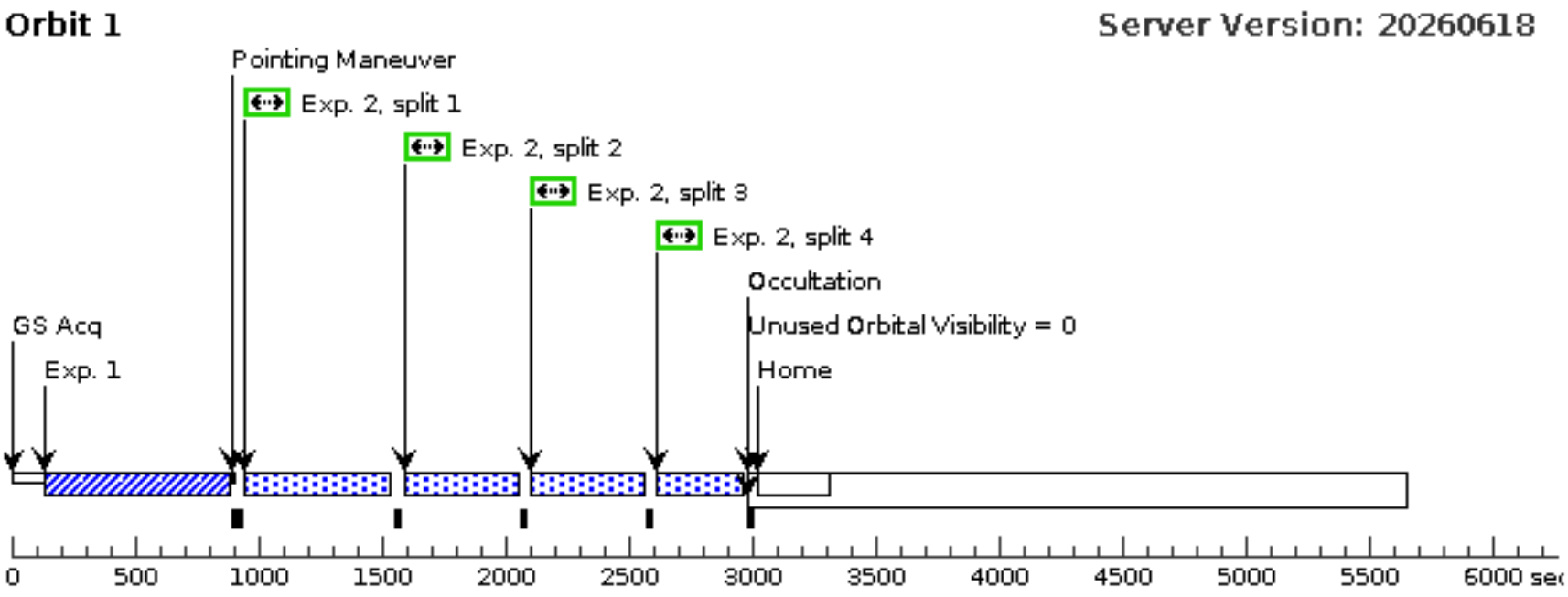
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	J143345.14+264915.2	RA: 14 33 45.1400 (218.4380833d) Dec: +26 49 15.21 (26.82089d) Equinox: J2000	Redshift: 0.03841	V=16.6+/-0.05 FUV=18.13+/-0.10, NUV=17.74+/-0.06	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[DWARF COMPACT, 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	ACQ (COS.ta.2023403)	(2) J143345.14+264915.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				219 Secs (219 Secs) *[==>]*	***[1]***
2	G140L Spec (COS.sp.2023191)	(2) J143345.14+264915.2	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=8200; FLASH=YES; FP-POS=ALL; SEGMENT=A			408 Secs (1524 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>300 Secs (Split 4)]*	***[1]***

Orbit Structure



Visit

Proposal 18099, J023749.51-092556.1 (03), failed Wed Aug 26 15:00:40 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(G140L Spec (03.002)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.

Fixed Targets

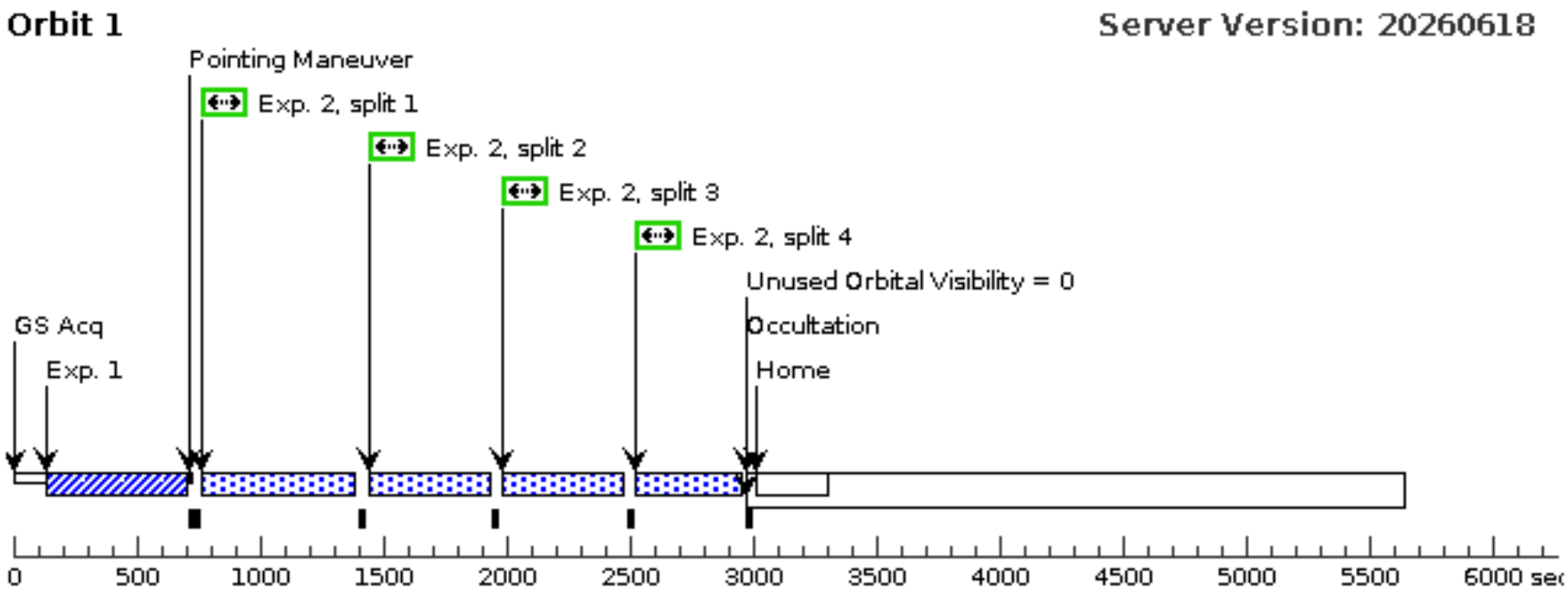
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	J023749.51-092556.1	RA: 02 37 49.5100 (39.4562917d) Dec: -09 25 56.10 (-9.43225d) Equinox: J2000	Redshift: 0.04463	V=15.7+/-0.05 FUV=17.59+/-0.04, NUV=17.20+/-0.02	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[DWARF COMPACT, 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	ACQ (COS.ta.2023404)	(3) J023749.51-092556.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				129 Secs (129 Secs) *[==>]*	***[1]***
2	G140L Spec (COS.sp.2023195)	(3) J023749.51-092556.1	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=7534; FLASH=YES; FP-POS=ALL; SEGMENT=A			439 Secs (1698 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>381 Secs (Split 4)]*	***[1]***

Orbit Structure



Visit

Proposal 18099, J023749.51-092556.1 (17) Wed Aug 26 15:00:41 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(G140L Spec (17.002)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.

Fixed Targets

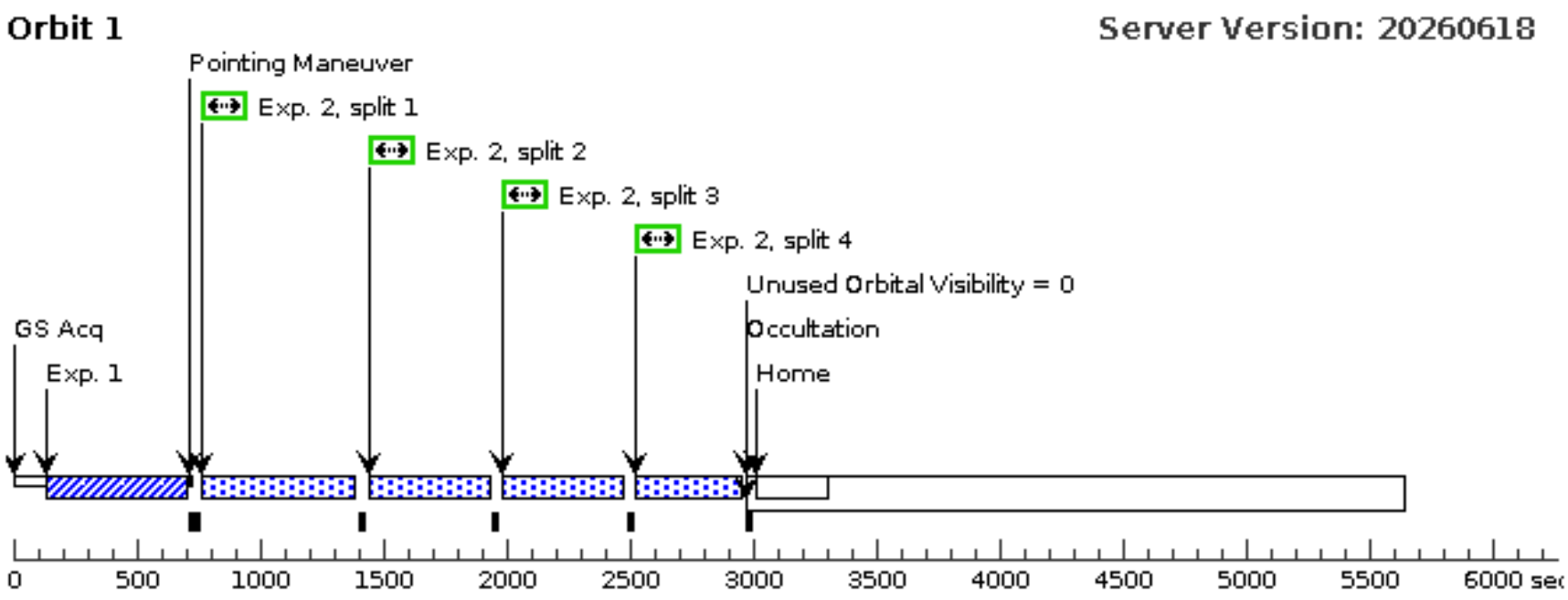
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	J023749.51-092556.1	RA: 02 37 49.5100 (39.4562917d) Dec: -09 25 56.10 (-9.43225d) Equinox: J2000	Redshift: 0.04463	V=15.7+/-0.05 FUV=17.59+/-0.04, NUV=17.20+/-0.02	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[DWARF COMPACT, 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	ACQ (COS.ta.2023404)	(3) J023749.51-092556.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				129 Secs (129 Secs) *[==>]*	***[1]***
2	G140L Spec (COS.sp.2023195)	(3) J023749.51-092556.1	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=7534; FLASH=YES; FP-POS=ALL; SEGMENT=A			439 Secs (1698 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>381 Secs (Split 4)]*	***[1]***

Orbit Structure



Visit

Proposal 18099, J131603.92+292254.1 (04), completed Wed Aug 26 15:00:41 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(G140L Spec (04.002)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.

Fixed Targets

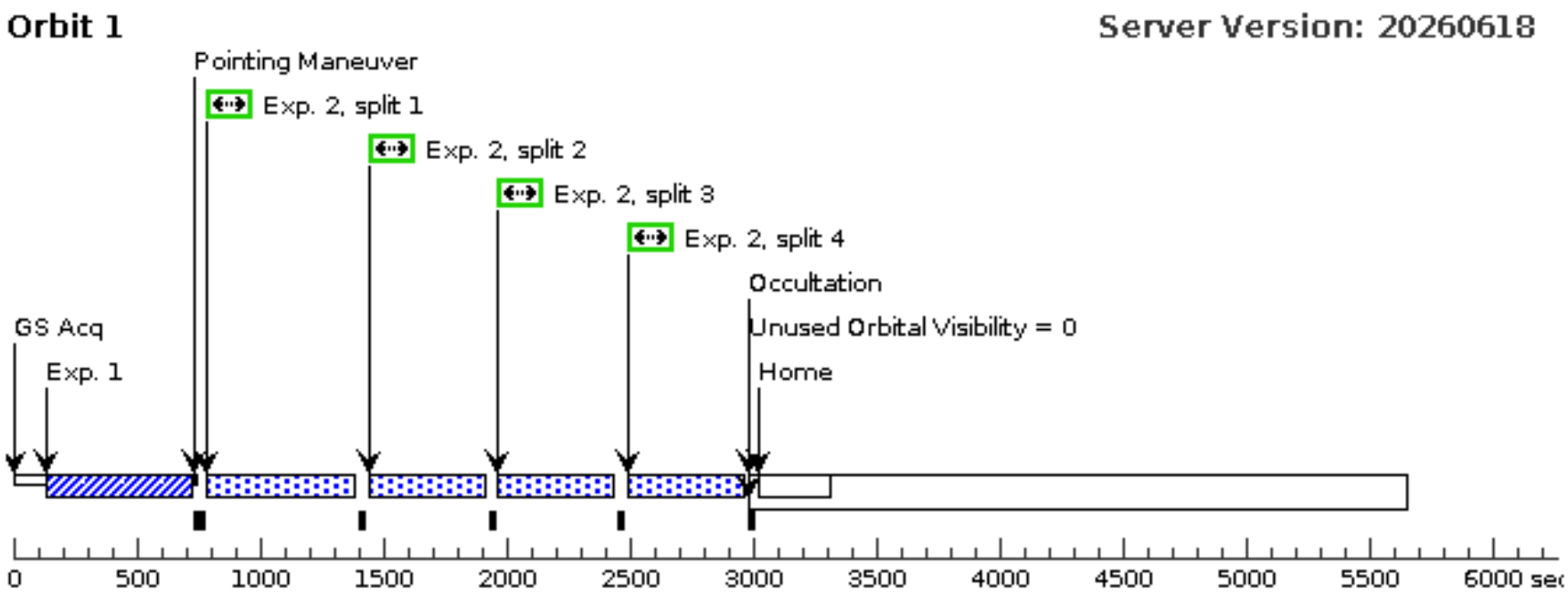
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	J131603.92+292254.1	RA: 13 16 3.9200 (199.0163333d) Dec: +29 22 54.08 (29.38169d) Equinox: J2000	Redshift: 0.03779	V=16.3+/-0.05 FUV=17.49+/-0.06, NUV=17.29+/-0.03	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[DWARF COMPACT, 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	ACQ (COS.ta.2023405)	(4) J131603.92+292254.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				140 Secs (140 Secs) *[==>]*	*[1]*
2	G140L Spec (COS.sp.2023196)	(4) J131603.92+292254.1	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=7250; FLASH=YES; FP-POS=ALL; SEGMENT=A			420 Secs (1682 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>422.0 Secs (Split 4)]*	*[1]*

Orbit Structure



Visit

Proposal 18099, J082730.65+192160.0 (05), scheduling Wed Aug 26 15:00:41 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(G140L Spec (05.002)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.

Fixed Targets

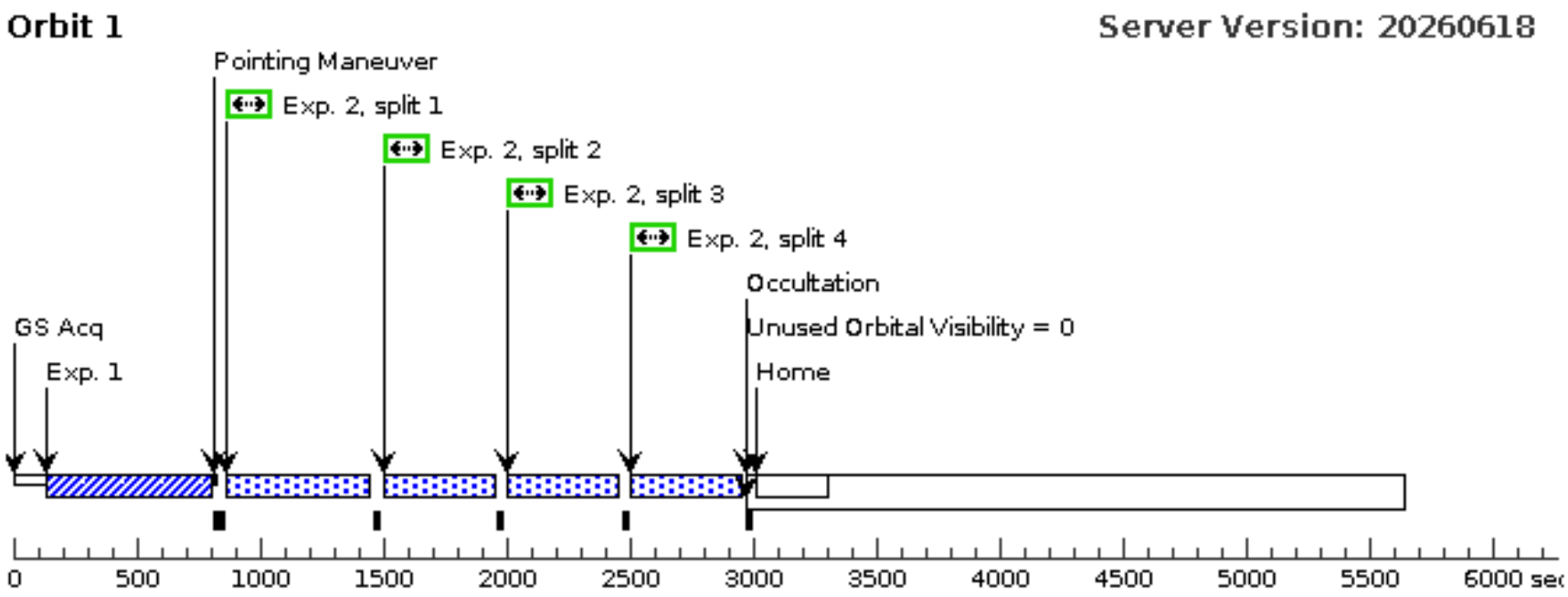
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	J082730.65+192160.0	RA: 08 27 30.6500 (126.8777083d) Dec: +19 21 59.97 (19.36666d) Equinox: J2000	Redshift: 0.03626	V=15.8+/-0.05 FUV=17.91+/-0.07, NUV=17.55+/-0.04	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[DWARF COMPACT, 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	ACQ (COS.ta.2023406)	(5) J082730.65+192160.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				180 Secs (180 Secs) *[==>]*	*[1]*
2	G140L Spec (COS.sp.2023270)	(5) J082730.65+192160.0	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=7960; FLASH=YES; FP-POS=ALL; SEGMENT=A			398 Secs (1595 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>401.0 Secs (Split 4)]*	*[1]*

Orbit Structure



Visit

Proposal 18099, J131436.60+544753.7 (06), completed Wed Aug 26 15:00:41 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(G140L Spec (06.002)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.

Fixed Targets

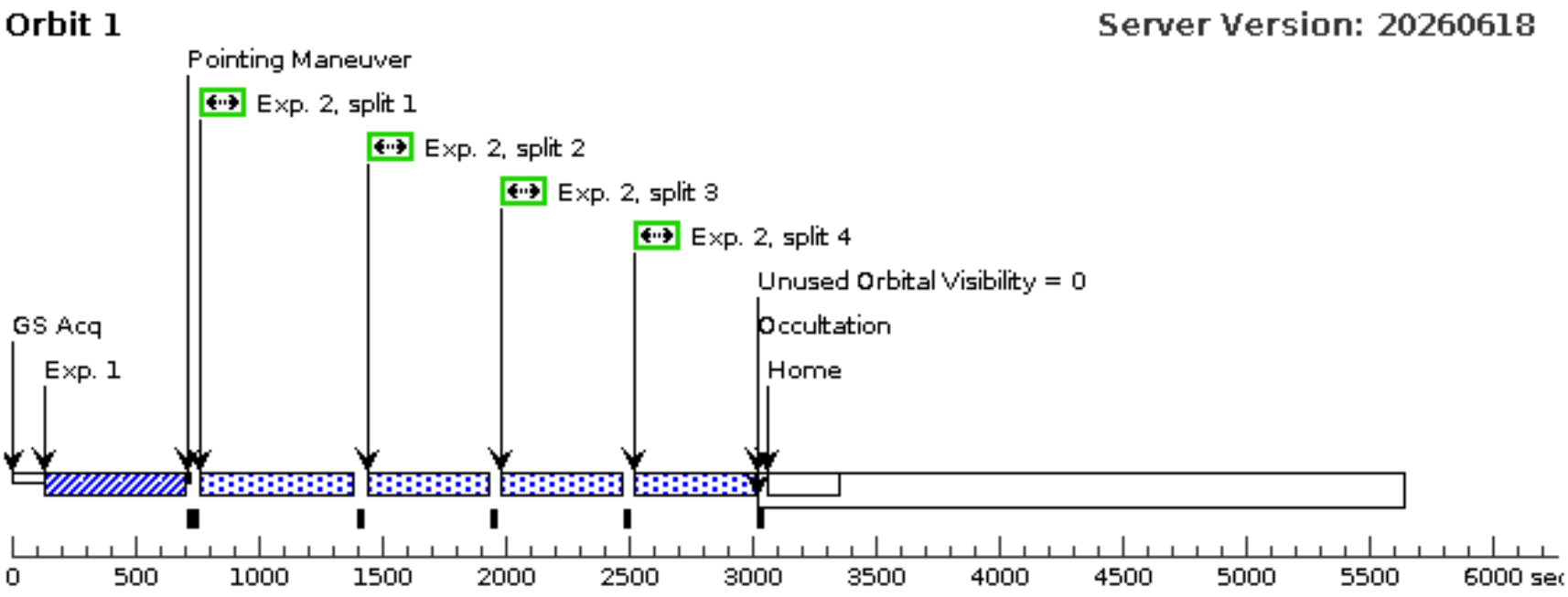
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	J131436.60+544753.7	RA: 13 14 36.6000 (198.6525000d) Dec: +54 47 53.67 (54.79824d) Equinox: J2000	Redshift: 0.03232	V=15.3+/-0.05	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[DWARF COMPACT, 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	ACQ (COS.ta.2024480)	(6) J131436.60+544753.7	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				130 Secs (130 Secs) *[==>]*	***[1]***
2	G140L Spec (COS.sp.2024481)	(6) J131436.60+544753.7	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=7929; FLASH=YES; FP-POS=ALL; SEGMENT=A			436 Secs (1745 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>437.0 Secs (Split 4)]*	***[1]***

Orbit Structure



Visit

Proposal 18099, J123733.71+085255.8 (07), scheduling Wed Aug 26 15:00:41 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(G140L Spec (07.002)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.

Fixed Targets

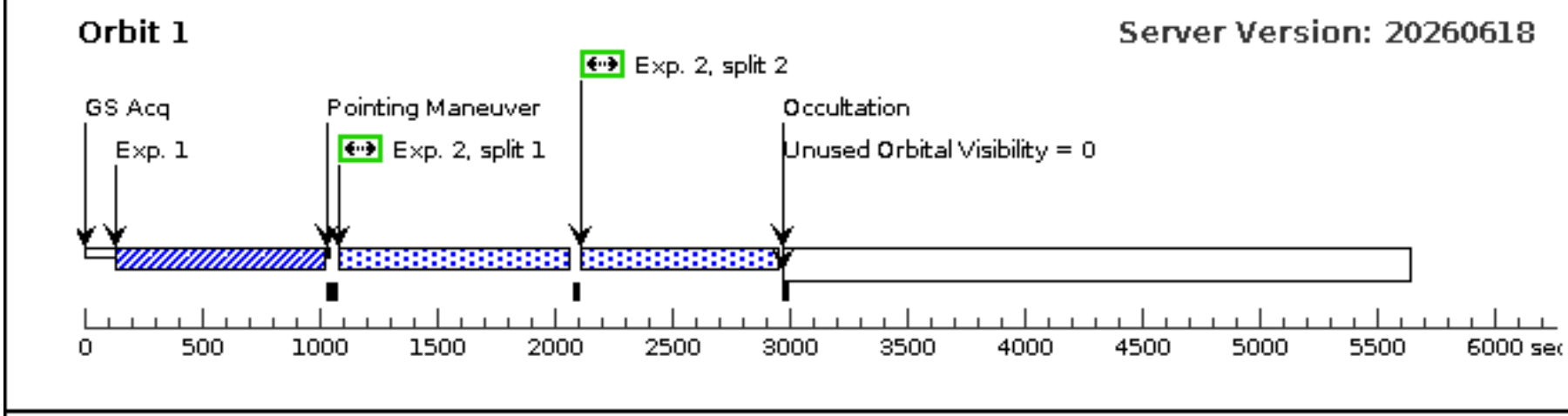
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	J123733.71+085255.8	RA: 12 37 33.7100 (189.3904583d) Dec: +08 52 55.79 (8.88216d) Equinox: J2000	Redshift: 0.04368	V=16.7+/-0.05 FUV=18.34+/-0.09, NUV=18.03+/-0.05	Reference Frame: ICRS

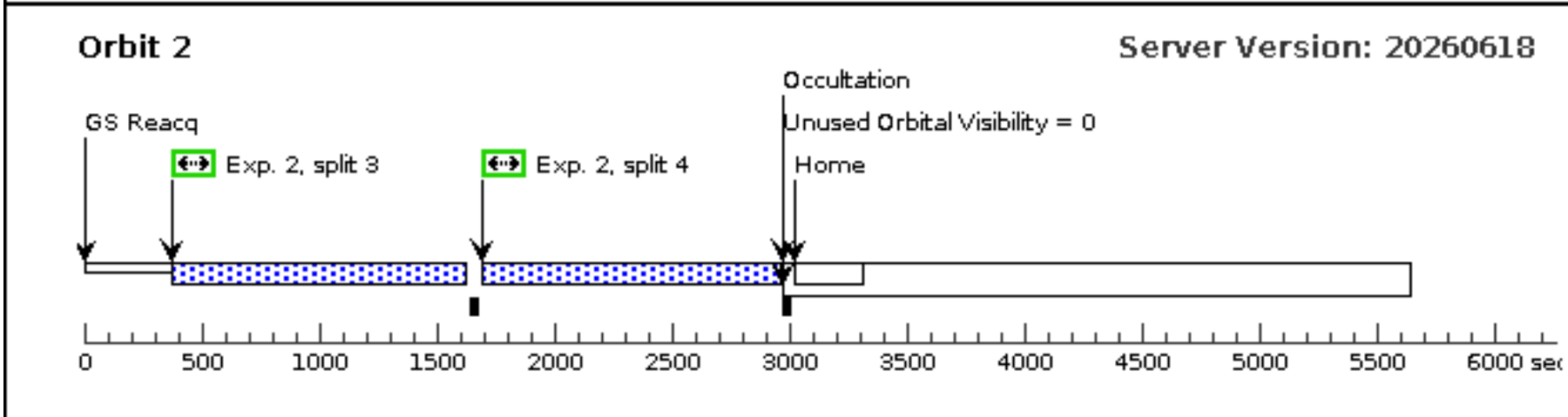
Comments:
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]
Extended=YES

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.2023409)	(7) J123733.71+085255.8	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				290 Secs (290 Secs) *[==>]*	*[1]*
2	G140L Spec (COS.sp.2023275)	(7) J123733.71+085255.8	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=8494; FLASH=YES; FP-POS=ALL; SEGMENT=A			840 Secs (4004 Secs) *[==>795.0 Secs (Split 1)]* *[==>791.0 Secs (Split 2)]* *[==>1200.0 Secs (Split 3)]* *[==>1218.0 Secs (Split 4)]*	*[1]* *[2]*

Orbit Structure





Visit

Proposal 18099, J155636.42+415250.5 (08), completed Wed Aug 26 15:00:41 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(G140L Spec (08.002)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.

Fixed Targets

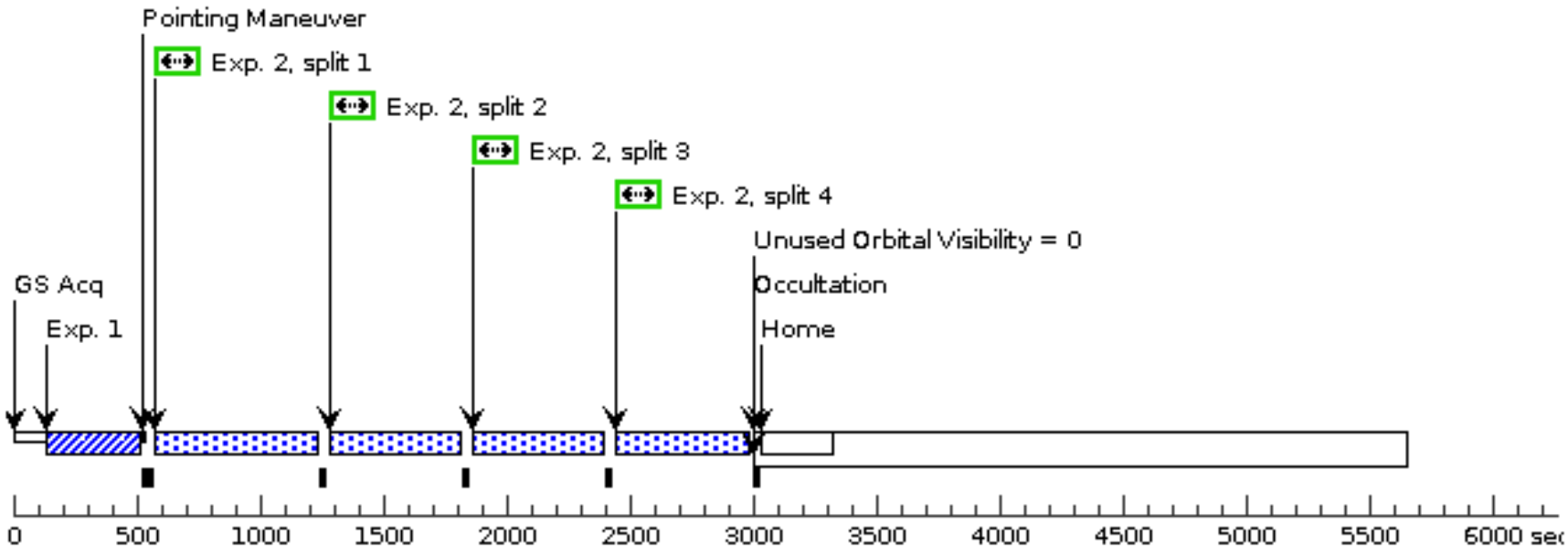
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	J155636.42+415250.5	RA: 15 56 36.4200 (239.1517500d) Dec: +41 52 50.54 (41.88071d) Equinox: J2000	Redshift: 0.03471	V=14.4+/-0.05 NUV=15.81+/-0.00	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[DWARF COMPACT, 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	ACQ (COS.ta.2023410)	(8) J155636.42+415250.5	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				34 Secs (34 Secs) *[==>]*	*[1]*
2	G140L Spec (COS.sp.2023278)	(8) J155636.42+415250.5	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4985; FLASH=YES; FP-POS=ALL; SEGMENT=A			475 Secs (1912 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>487.0 Secs (Split 4)]*	*[1]*

Orbit Structure



Visit

Proposal 18099, J091934.54+481614.9 (09), scheduling Wed Aug 26 15:00:41 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(G140L Spec (09.002)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.

Fixed Targets

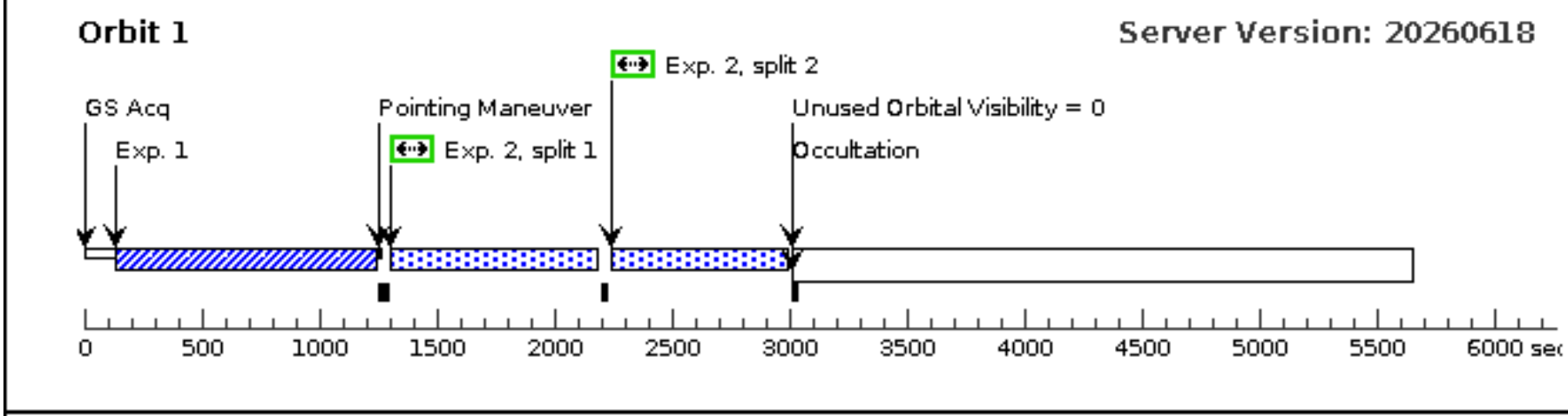
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	J091934.54+481614.9	RA: 09 19 34.5400 (139.8939167d) Dec: +48 16 14.87 (48.27080d) Equinox: J2000	Redshift: 0.03023	V=16.7+/-0.05 FUV=18.85+/-0.08, NUV=18.36+/-0.04	Reference Frame: ICRS

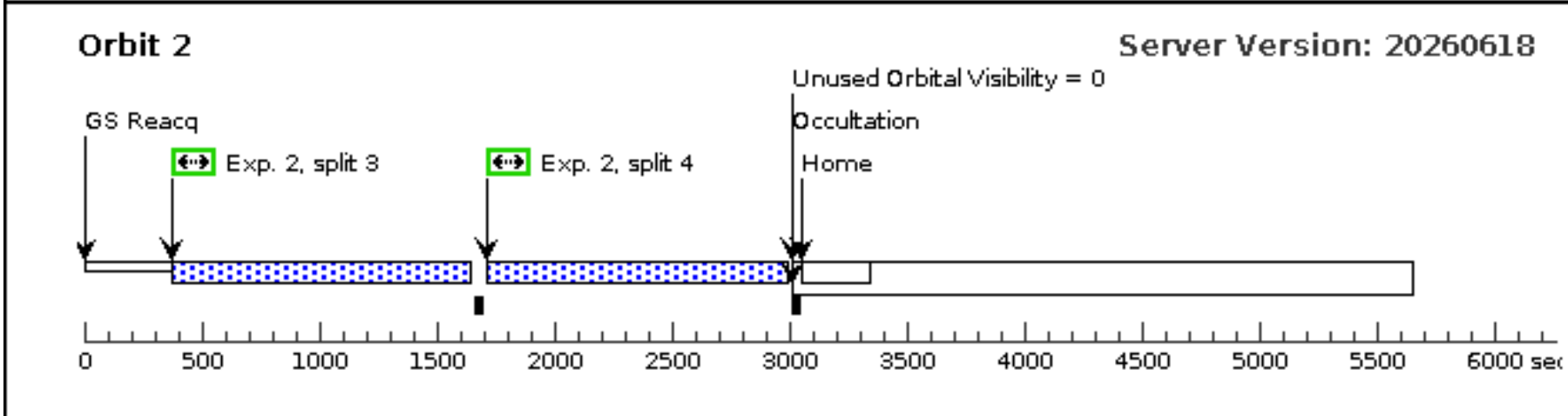
Comments:
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]
Extended=YES

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.2023413)	(9) J091934.54+481614.9	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				400 Secs (400 Secs) *[==>]*	*[1]*
2	G140L Spec (COS.sp.2023273)	(9) J091934.54+481614.9	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=8736; FLASH=YES; FP-POS=ALL; SEGMENT=A			820 Secs (3852 Secs) *[==>700.0 Secs (Split 1)]* *[==>700.0 Secs (Split 2)]* *[==>1220.0 Secs (Split 3)]* *[==>1232.0 Secs (Split 4)]*	*[1]* *[2]*

Orbit Structure





Visit

Proposal 18099, J122558.57+042826.4 (10), scheduling Wed Aug 26 15:00:41 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(G140L Spec (10.002)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.

Fixed Targets

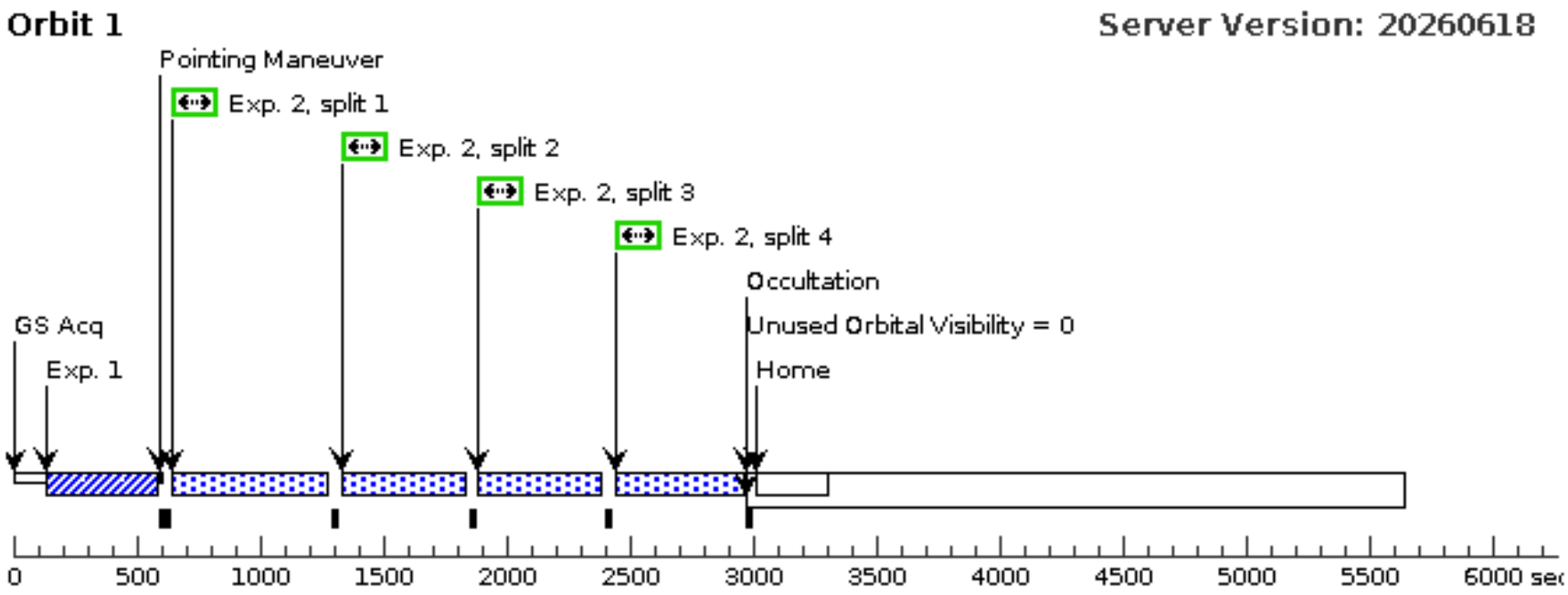
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(10)	J122558.57+042826.4	RA: 12 25 58.5700 (186.4940417d) Dec: +04 28 26.41 (4.47400d) Equinox: J2000	Redshift: 0.01849	V=14.6+/-0.05 FUV=17.07+/-0.04, NUV=16.56+/-0.02	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[DWARF COMPACT, 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	ACQ (COS.ta.2023414)	(10) J122558.57+042826.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				70 Secs (70 Secs) *[==>]*	***[1]***
2	G140L Spec (COS.sp.2023280)	(10) J122558.57+042826.4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=6622; FLASH=YES; FP-POS=ALL; SEGMENT=A			450 Secs (1818 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>468.0 Secs (Split 4)]*	***[1]***

Orbit Structure



Visit

Proposal 18099, J152322.14+124133.3 (11), completed Wed Aug 26 15:00:41 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(G140L Spec (11.002)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.

Fixed Targets

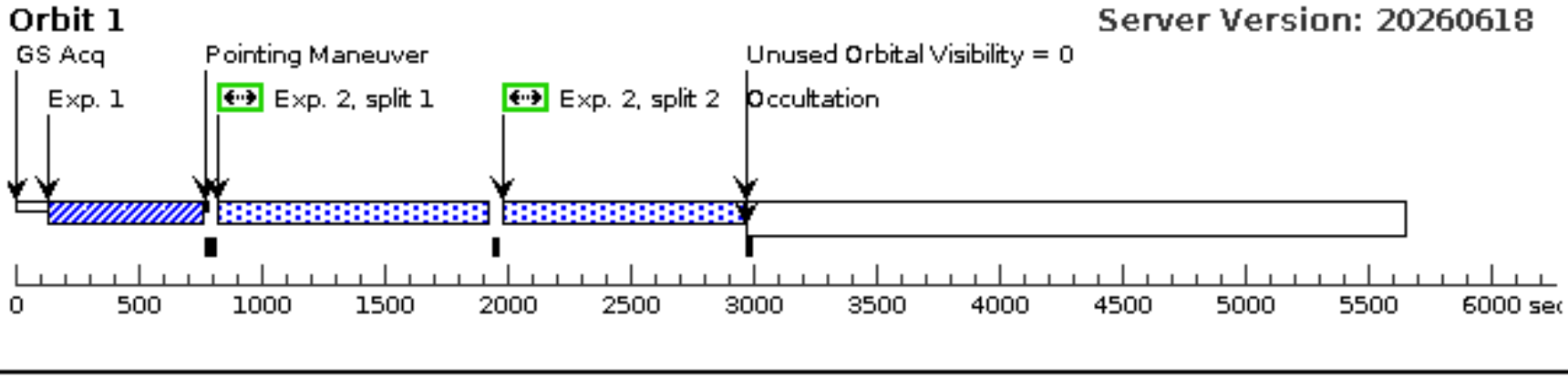
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(11)	J152322.14+124133.3	RA: 15 23 22.1400 (230.8422500d) Dec: +12 41 33.26 (12.69257d) Equinox: J2000	Redshift: 0.02179	V=15.5+/-0.05	Reference Frame: ICRS

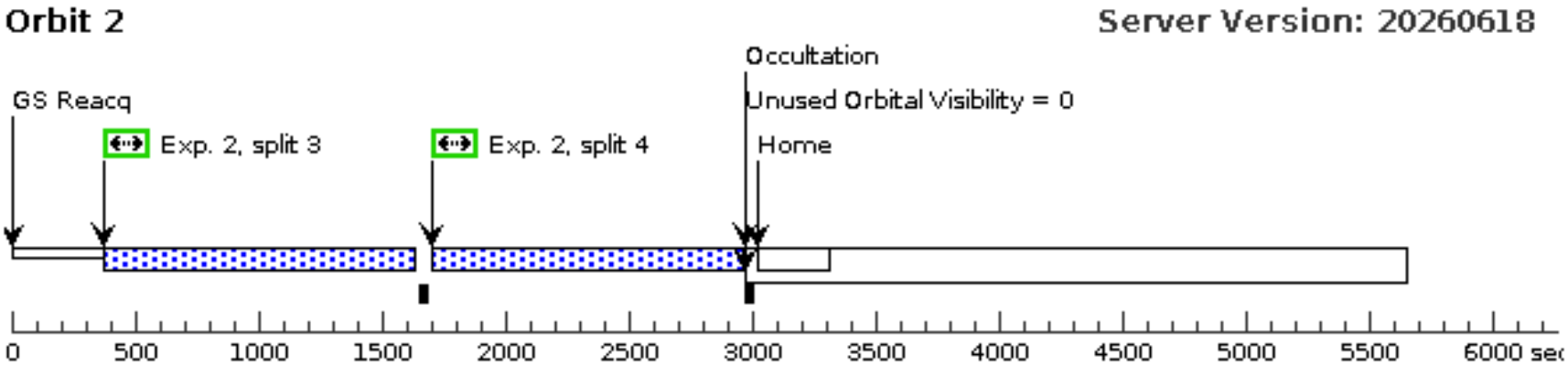
Comments:
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]
Extended=YES

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (COS.ta.2024485)	(11) J152322.14+124133.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				160 Secs (160 Secs) *[==>]*	***[1]***
2	G140L Spec (COS.sp.2024483)	(11) J152322.14+124133.3	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=8978; FLASH=YES; FP-POS=ALL; SEGMENT=A			920 Secs (4258 Secs) *[==>(Split 1)]* *[==>923.0 Secs (Split 2)]* *[==>1210.0 Secs (Split 3)]* *[==>1205.0 Secs (Split 4)]*	***[1]*** ***[2]***

Orbit Structure





Visit

Proposal 18099, J095322.23+202655.0 (12), failed Wed Aug 26 15:00:41 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(G140L Spec (12.002)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.

Fixed Targets

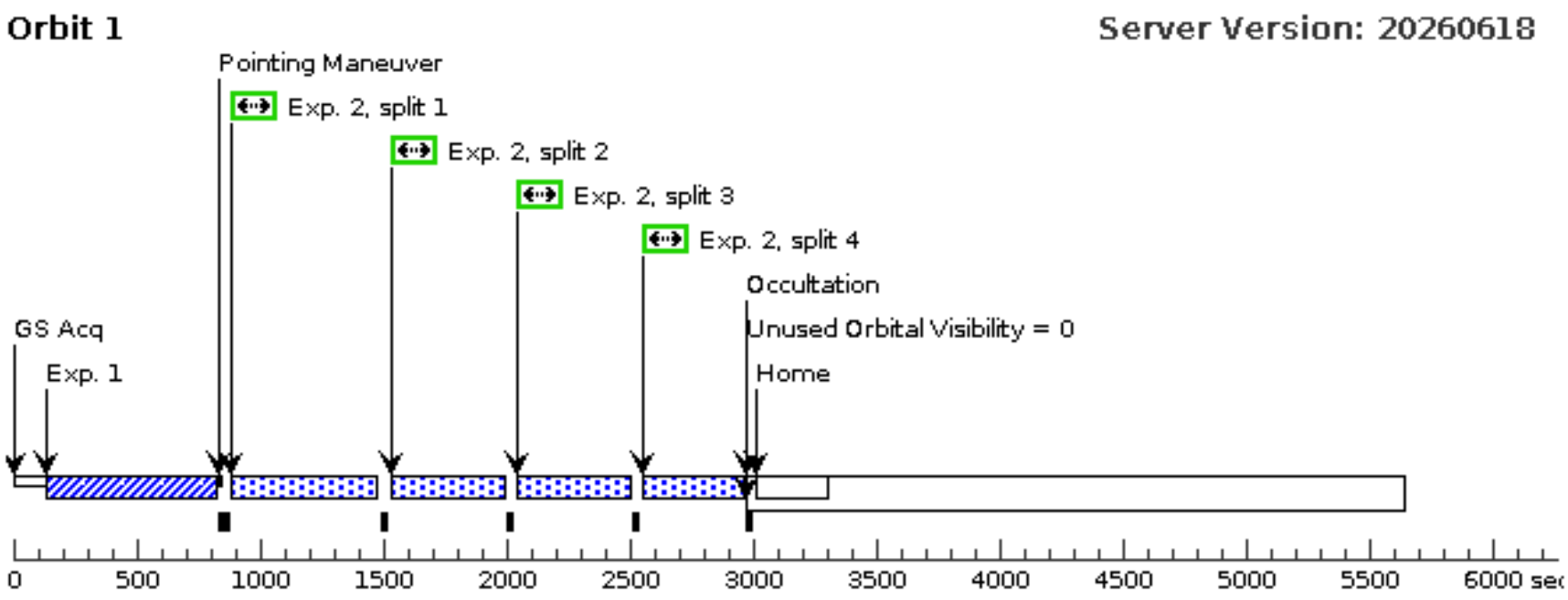
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(12)	J095322.23+202655.0	RA: 09 53 22.2300 (148.3426250d) Dec: +20 26 55.00 (20.44861d) Equinox: J2000	Redshift: 0.01999	V=15.8+/-0.05 FUV=18.02+/-0.05, NUV=17.59+/-0.03	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[DWARF COMPACT, 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	ACQ (COS.ta.2023416)	(12) J095322.23+202655.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				189 Secs (189 Secs) *[==>]*	*[1]*
2	G140L Spec (COS.sp.2023284)	(12) J095322.23+202655.0	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=8177; FLASH=YES; FP-POS=ALL; SEGMENT=A			408 Secs (1580 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>356.0 Secs (Split 4)]*	*[1]*

Orbit Structure



Visit

Proposal 18099, J095322.23+202655.0 (16), implementation Wed Aug 26 15:00:41 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(G140L Spec (16.002)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.

Fixed Targets

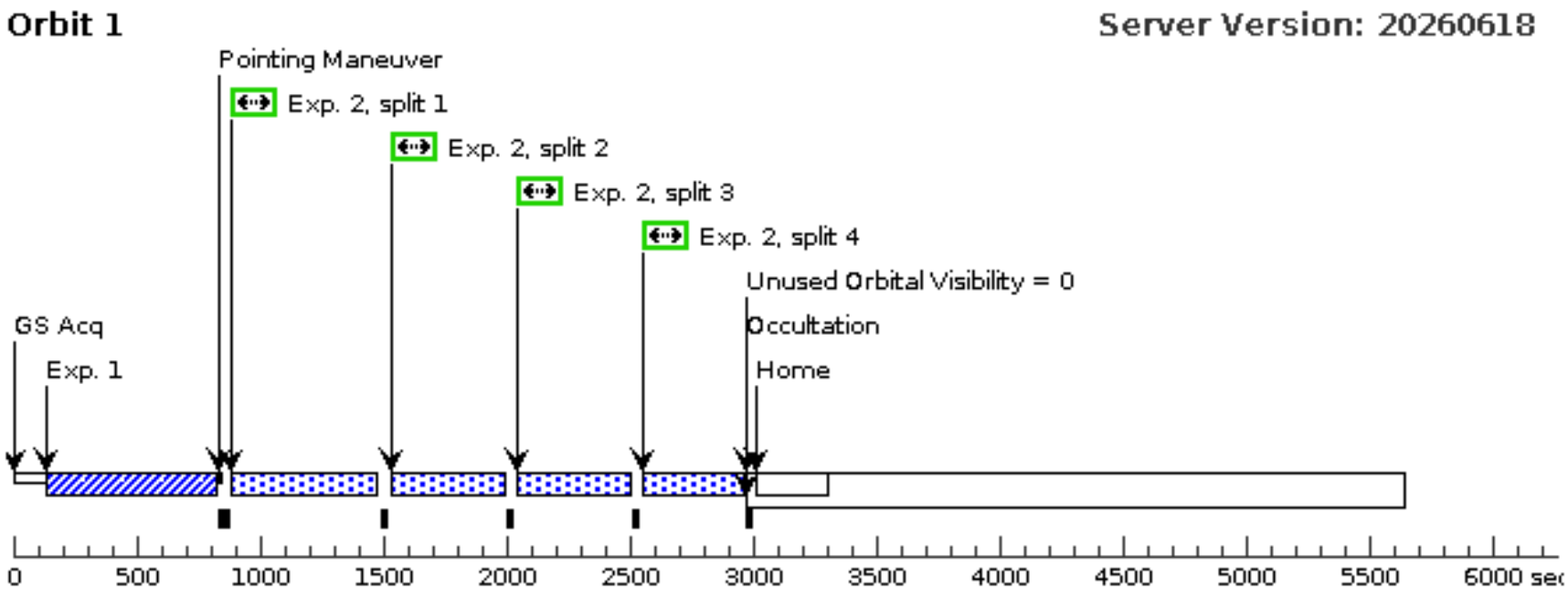
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(12)	J095322.23+202655.0	RA: 09 53 22.2300 (148.3426250d) Dec: +20 26 55.00 (20.44861d) Equinox: J2000	Redshift: 0.01999	V=15.8+/-0.05 FUV=18.02+/-0.05, NUV=17.59+/-0.03	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[DWARF COMPACT, 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	ACQ (COS.ta.2023416)	(12) J095322.23+202655.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				189 Secs (189 Secs) *[==>]*	*[1]*
2	G140L Spec (COS.sp.2023284)	(12) J095322.23+202655.0	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=8177; FLASH=YES; FP-POS=ALL; SEGMENT=A			408 Secs (1580 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>356.0 Secs (Split 4)]*	*[1]*

Orbit Structure



Visit

Proposal 18099, J112728.74+195112.3 (13), scheduling Wed Aug 26 15:00:41 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(G140L Spec (13.002)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.

Fixed Targets

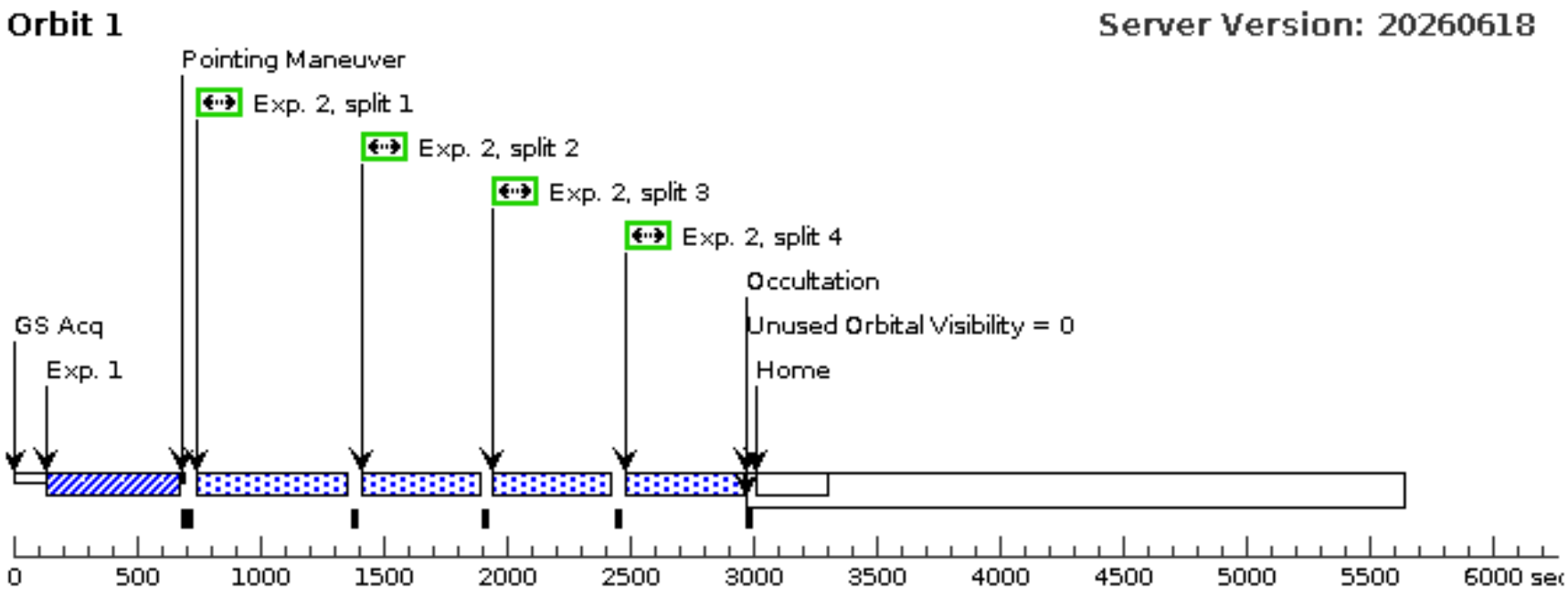
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(13)	J112728.74+195112.3	RA: 11 27 28.7400 (171.8697500d) Dec: +19 51 12.29 (19.85341d) Equinox: J2000	Redshift: 0.02179	V=15.2+/-0.05 FUV=17.60+/-0.04, NUV=17.11+/-0.01	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[DWARF COMPACT, 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	ACQ (COS.ta.2023412)	(13) J112728.74+195112.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				118 Secs (118 Secs) *[==>]*	*[1]*
2	G140L Spec (COS.sp.2023285)	(13) J112728.74+195112.3	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=7497; FLASH=YES; FP-POS=ALL; SEGMENT=A			430 Secs (1719 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>429.0 Secs (Split 4)]*	*[1]*

Orbit Structure



Visit

Proposal 18099, J074231.57+273818.8 (14), scheduling Wed Aug 26 15:00:41 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(G140L Spec (14.002)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.

Fixed Targets

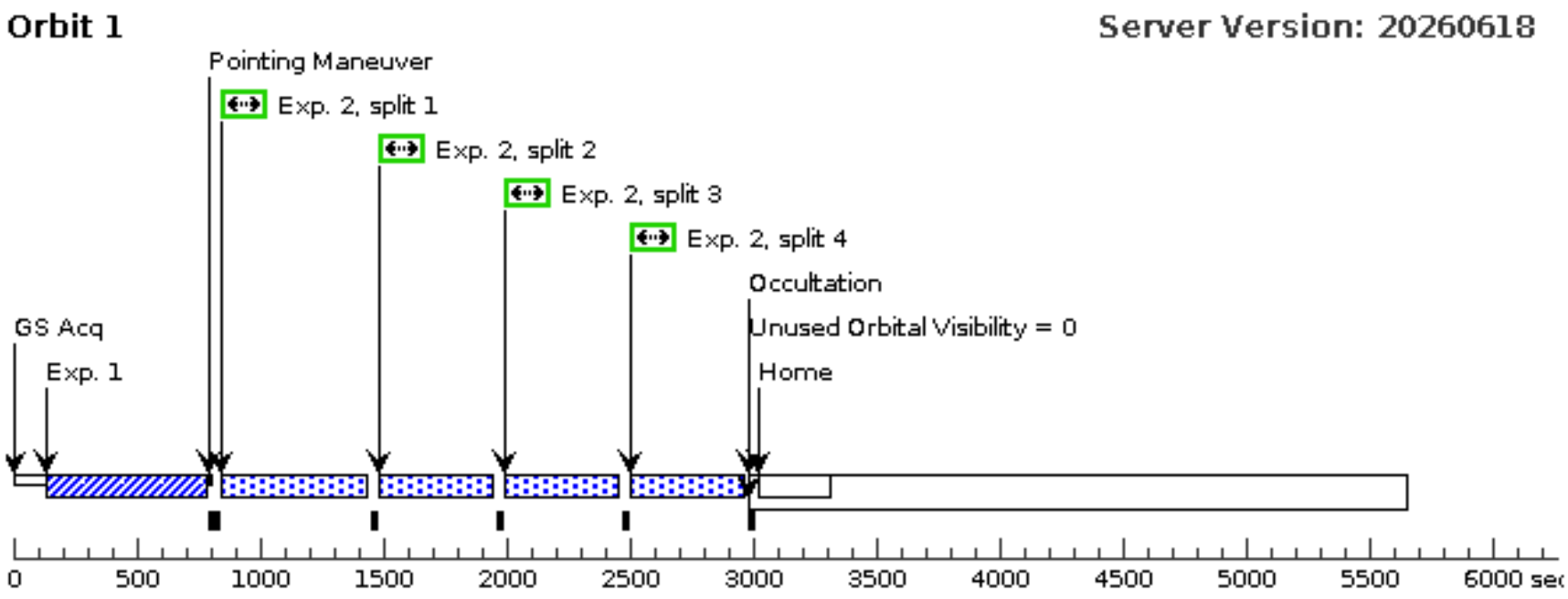
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(14)	J074231.57+273818.8	RA: 07 42 31.5700 (115.6315417d) Dec: +27 38 18.81 (27.63856d) Equinox: J2000	Redshift: 0.02686	V=15.5+/-0.05	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[DWARF COMPACT, 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	ACQ (COS.ta.2024479)	(14) J074231.57+273818.8	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				170 Secs (170 Secs) *[==>]*	***[1]***
2	G140L Spec (COS.sp.2024478)	(14) J074231.57+273818.8	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=8679; FLASH=YES; FP-POS=ALL; SEGMENT=A			405 Secs (1622 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>407.0 Secs (Split 4)]*	***[1]***

Orbit Structure



Visit

Proposal 18099, J132549.42+330354.3 (15), completed Wed Aug 26 15:00:41 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

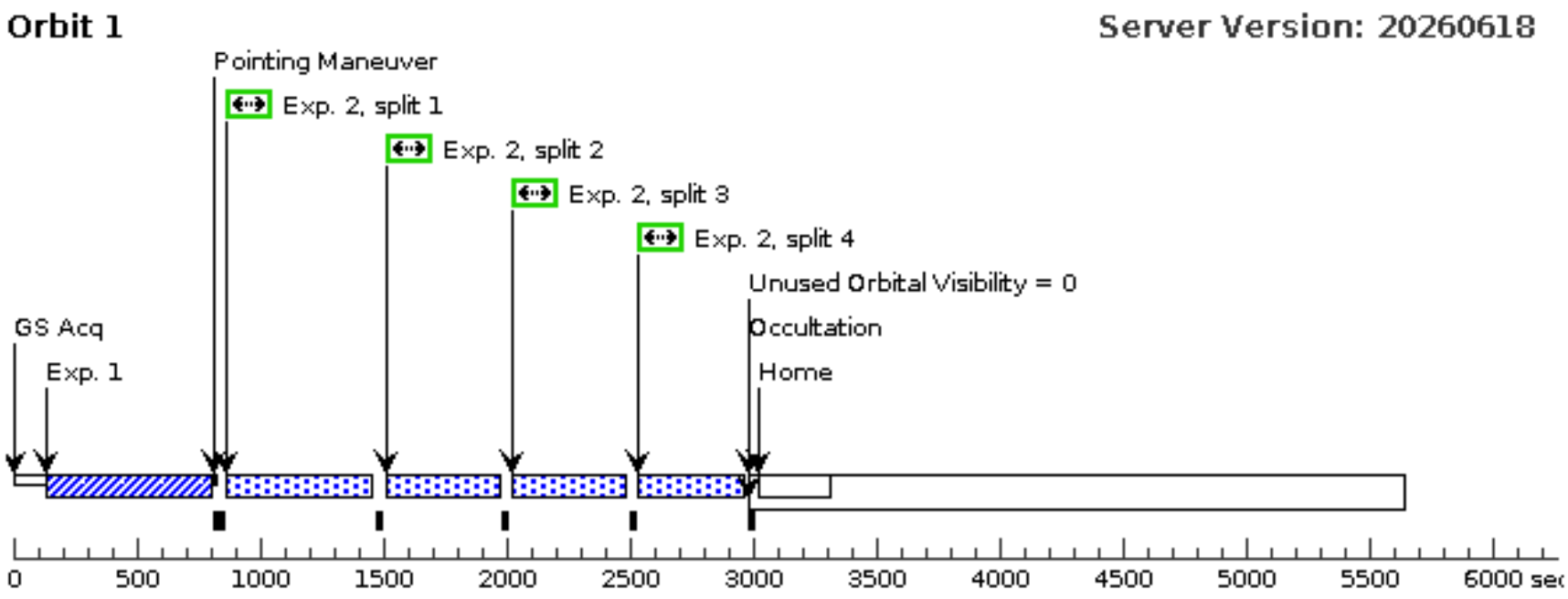
(G140L Spec (15.002)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(16)	J132549.42+330354.3	RA: 13 25 49.4200 (201.4559167d) Dec: +33 03 54.30 (33.06508d) Equinox: J2000	Redshift: 0.0146	V=16.7+/-0.05 FUV=18.2+/-0.1, NUV=17.9+/-0.1	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[DWARF COMPACT, 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	ACQ (COS.ta.2023416)	(16) J132549.42+330354.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				180 Secs (180 Secs) *[==>]*	*[1]*
2	G140L Spec (COS.sp.2023284)	(16) J132549.42+330354.3	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=8177; FLASH=YES; FP-POS=ALL; SEGMENT=A			408 Secs (1606 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>382.0 Secs (Split 4)]*	*[1]*

Orbit Structure