17761 - Mg II maps to reveal how ionizing photons escape local LyC emitting galaxies

Cycle: 32, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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Dr. Brian Fleming (CoI)	University of Colorado at Boulder

VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) J1256	ACS/WFC	3	11-Feb-2026 12:00:49.0	yes
02	(1) J1256	ACS/WFC	3	11-Feb-2026 12:00:49.0	yes
03	(1) J1256	ACS/WFC	1	11-Feb-2026 12:00:50.0	yes
04	(2) J1243	ACS/WFC	2	11-Feb-2026 12:00:50.0	yes
05	(3) J1154	ACS/WFC	3	11-Feb-2026 12:00:51.0	yes
06	(3) J1154	ACS/WFC	3	11-Feb-2026 12:00:51.0	yes
07	(3) J1154	ACS/WFC	2	11-Feb-2026 12:00:52.0	yes
08	(4) J1137	ACS/WFC	3	11-Feb-2026 12:00:52.0	yes
09	(4) J1137	ACS/WFC	3	11-Feb-2026 12:00:53.0	yes
10	(4) J1137	ACS/WFC	2	11-Feb-2026 12:00:53.0	yes
11	(4) J1137	ACS/WFC	3	11-Feb-2026 12:00:54.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
12	(5) J0141	ACS/WFC	3	11-Feb-2026 12:00:55.0	yes
13	(5) J0141	ACS/WFC	1	11-Feb-2026 12:00:56.0	yes

32 Total Orbits Used

ABSTRACT

Upcoming observations aim to constrain the soures of cosmic reionization, but the high-redshift intergalactic medium precludes direct observations of ionizing photons (or LyC photons). Alternative methods must indirectly estimate the escape of ionizing photons from high redshift galaxies. The extragalactic community has invested vast resources to amass a collective sample of 90 nearby galaxies with ionizing continuum observations. However, these reveal an unsettling fact: while the observed LyC escape fraction correlates with indirect indicators, there is substantial scatter. Indicators cannot infer the escape fraction of individual galaxies. Here, we propose 31 orbits of HST/ACS ramp-filter imaging to determine if geometry drives this scatter. We will map the Mg II, [O II], and [O III] at <250 pc resolution in 5 galaxies with LyC observations and pre-existing seeing-limited ground based IFU. Our targets show compact/unresolved configurations of both neutral and ionized gas, span similar ranges in [OIII]/[OII] line flux ratio and Lyman alpha peak separation, but have a factor of 30 difference in the observed LyC escape fractions (fesc(LyC)~3-90%). The spatial resolution of the IFU data does not probe the location where the LyC is detected and therefore cannot explain such a high factor difference. Higher resolution HST observations must reveal the impact of the HI geometry on LyC leakage. These maps will (1) stringently explore the role of geometry in the escape of LyC, (2) uncover the origin of the scatter in indirect LyC indicators, and (3) guide how JWST can use indirect tracers to infer the LyC escape fraction at high redshift.

OBSERVING DESCRIPTION

We propose 31 orbits of HST ACS/WFC imaging with the ramp filters. Our science goals are to spatially map the highly ionized gas (using the [O III] 5007 A emission line), the ionized gas (using the [O II] 3727 A emission line), and the low column density neutral gas (using the Mg II 2800 A resonant emission line) on the r<1" spatial scales. While ground-based observations have provided clues to the geometry of LyC escape, they also demonstrate that much of the important astrophysics happens on spatial scales that are not resolvable from the ground. The exquisite 0.05" (250 pc at the redshift of our sources) resolution of the HST/ACS imaging are crucial to resolving the geometry of LyC escape.

To isolate emission and continuum regions, we will use the tunable narrow and medium ACS ramp filters. These filters are ideal for this science because they isolate narrow wavelength bands (between 70-100 A for the narrow-band filters) with only the desired emission lines. We aim to observe Mg II, [O III] 5007 A, and [O II] 3727 A plus a continuum filter for each line. We will tune the filter to the emission line wavelength and

tune the continuum filters to more than 150 A (twice the filter width) from the nebular emission lines and ensure that there are no other strong nebular emission lines within the bandpass. Our three strong leakers already have observations of [O III] 5007, and [O II] 3727 A plus their continuum from the PID 16245 HST program, so only Mg II observations are requested from these sources to probe their small-scales H I neutral gas distributions.

We wish to compare the small-scale gaseous geometry of compact galaxies with different fesc . We selected confirmed LyC leakers from the LzLCS (Flury et al. 2022) and Izotov et al. (2022) observed with the ground-based IFU Keck/KCWI instrument, whose spatial analysis is presented in Leclercq et al. (2024). Our targets are chosen to be compact in Mg II and [O II] (i.e., unresolved, or close to be unresolved in KCWI data), and to have a 30 factor difference in fesc(LyC). We aim at understanding if and how unresolved differences can explain such different escape fractions. Our 5 selected targets are at z > 0.34 and therefore their Mg II is observable with the bluest ACS ramp filter (FR388N). Note that we excluded one target with compact Mg II (r < 1 kpc) because the exposure time requested to map Mg II was too high (>20 orbits).

Our ground-based IFU observations of Mg II and [O II] have seeing of ~1" and cannot inform on the spatial distribution of the gas that allows ionizing photons to escape the galaxy, but they can inform on the estimated flux levels of the two emission lines. We used the available SDSS spectra to determine the [O III] flux levels. Our targets are pure Mg II emitters with total Mg II fluxes ranging from 1.1 to 3.5x10^{-16} erg/s/cm^2. Using the ACS ramp filter ETC, the FR388N filter tuned to a center wavelength of the Mg II line center, and assuming that the total Mg II emission is uniformly distributed over the NUV size, it takes between 2,121 and 20,159 s to reach a signal-to-noise of 10 in the default extraction region of a 5x5 box. We will use Voronoi tessellation to reach lower surface brightnesses. This setup will test the gaseous geometry on sizes relevant to impact the observed LyC escape fractions.
We take a similar procedure to determine the [O III] and [O II] emission. Our three strong leakers already have [O III] and [O II] and their continuum observations from the program PID 16245. We find that the required total exposure times for the two weaker leakers are less than 100 s for the incredibly bright [O III] emission using the FR656N filter for J1137 and the FR716N filter for J0141. The exposures for the [O II] emission line using the FR505N filter are between 200-300 s. We estimate continuum fluxes using the SDSS magnitudes in the g-band. To increase the speeds of the continuum detections, we use the medium band tunable filters with bandpasses 9% of the central wavelength. We will use F647M centered at lbda_c=7100 A to obtain [O III] continuum and two different tunings of the F459M filter to obtain Mg II (lbda_c=4200A) and [O II] (lbda_c=4800A) continuum. We aim to detect the continuum at a signal-to-noise ratio of 100 in the continuum to accurately subtract the continuum from the emission lines. These SNR can be obtained in between 800-5000 s, depending on the galaxy and the filters chosen. To properly sample the PSF we will dither between the observations using the line 2-point dither pattern (ACS-WFC-DITHER-LINE with parameters recommended in the section 7.2 of the ACS handbook allowing simultaneous elimination of hot pixels and cosmic ray hits in post-observation processing), breaking the total exposure

times into at least two observations. We assume that each orbit has 2,400 s of usable time. This means that the [O II], [O III], and continuum observations can be obtained in 2 to 3 orbits depending on the objects. Meanwhile, the Mg II observations require between 1-8 orbits per galaxy. In total, we will require 31 orbits to obtain the total integration. We choose to use the WFC1-MRAMP aperture.

We will use the three different stellar continuum observations to model the stellar plus nebular continuum shape to properly account for the underlying continua. We will then study the spatial distribution of the Mg II and compare it to the [O II] and [O III] emission. By testing the physical picture of LyC escape, we will reveal whether the gas morphologies of LyC emitting galaxies are different than non-LyC emitting galaxies and see if geometry contributes to the scatter observed in the indirect indicator plots.

Visit

Proposal 17761, J1256 (01), completed Wed Feb 11 17:00:56 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: ACS/WFC

Special Requirements: (none)

Diagnostics

(J1256 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J1256 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J1256 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Exposure 1 (Pattern 1, Exps 1-1 in J1256 (01))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

(Exposure 2 (Pattern 1, Exps 2-2 in J1256 (01))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

(Exposure 3 (Pattern 1, Exps 3-3 in J1256 (01))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false		(1), (2), (3)

Fixed Targets

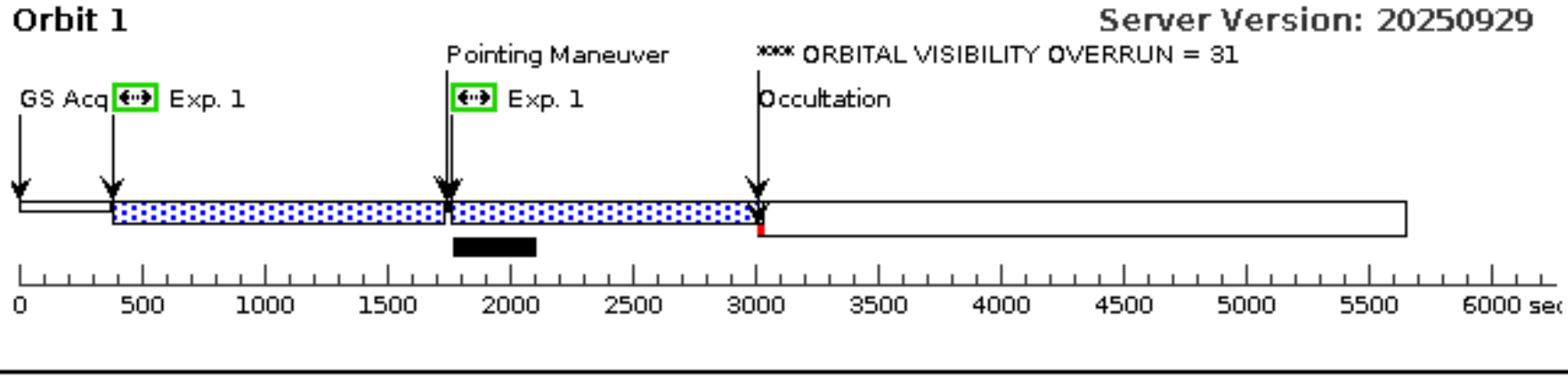
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	J1256	RA: 12 56 44.1500 (194.1839583d) Dec: +45 09 17.01 (45.15472d) Equinox: J2000	Redshift: 0.353	V=22.01+/-0.05 FUV=21.66, NUV=21.85	Reference Frame: ICRS

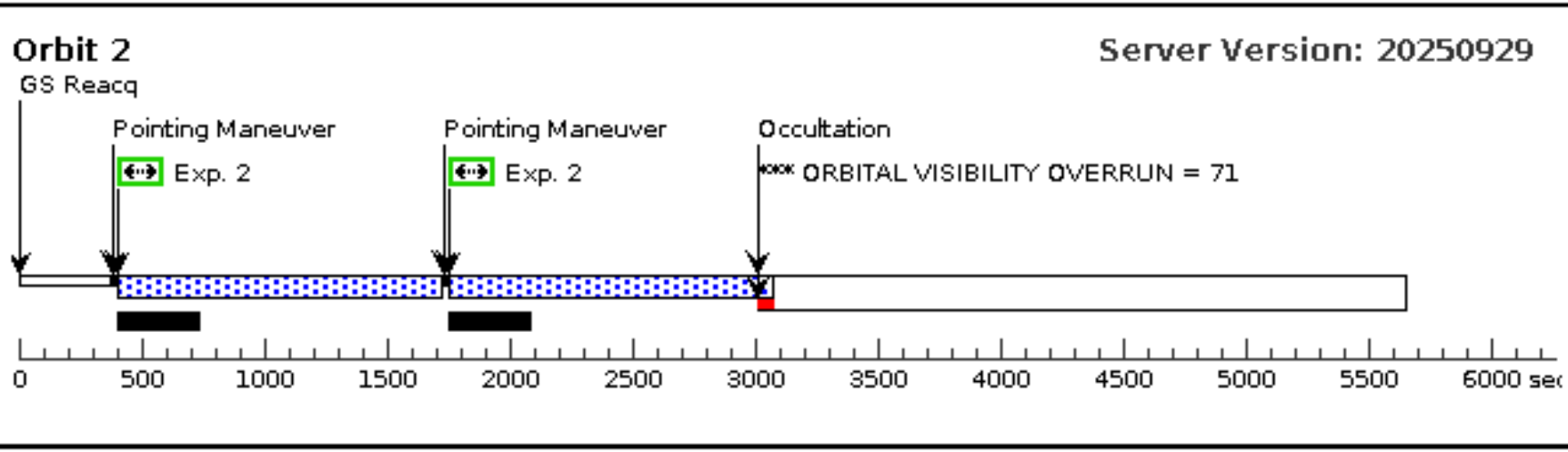
Comments:
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]

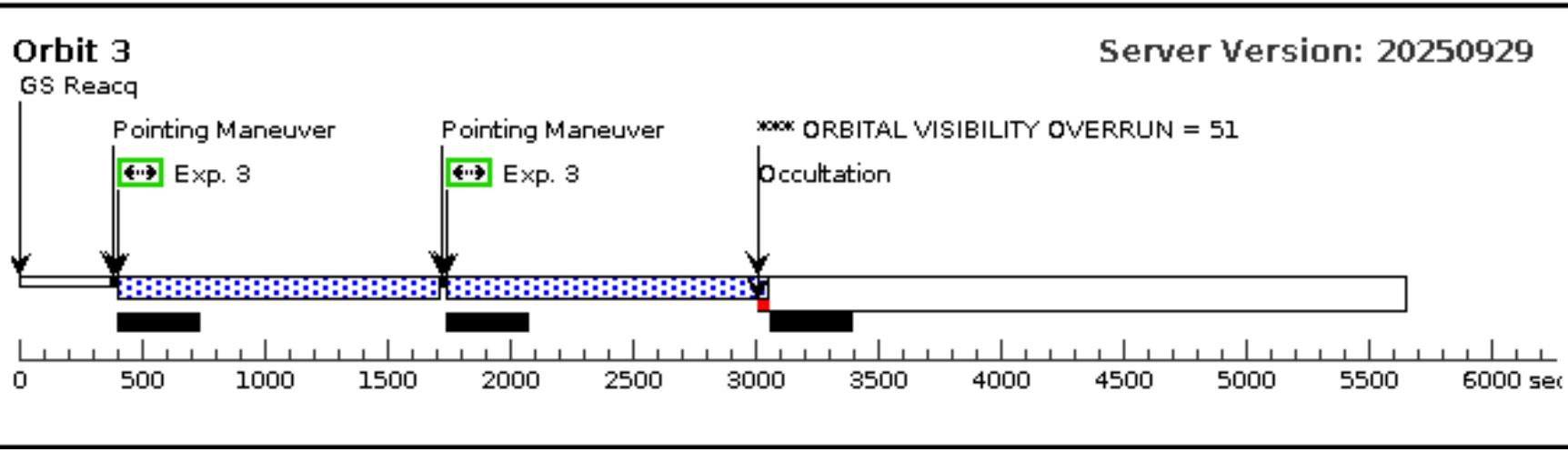
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) J1256	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3788 A			Pattern 1, Exps 1-1 in J1256 (01) (1)	1000 Secs (2284 Secs) *[==>1142.0 Secs (Pattern 1)]* *[==>1142.0 Secs (Pattern 2)]*	***[1]***
2		(1) J1256	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3788 A			Pattern 1, Exps 2-2 in J1256 (01) (1)	1000 Secs (2386 Secs) *[==>1193.0 Secs (Pattern 1)]* *[==>1193.0 Secs (Pattern 2)]*	***[2]***
3		(1) J1256	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3788 A			Pattern 1, Exps 3-3 in J1256 (01) (1)	1000 Secs (2366 Secs) *[==>1183.0 Secs (Pattern 1)]* *[==>1183.0 Secs (Pattern 2)]*	***[3]***

Orbit Structure







Visit

Proposal 17761, J1256 (02), completed Wed Feb 11 17:00:56 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: ACS/WFC

Special Requirements: (none)

Diagnostics

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(J1256 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J1256 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

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(Exposure 2 (Pattern 1, Exps 2-2 in J1256 (02))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

(Exposure 3 (Pattern 1, Exps 3-3 in J1256 (02))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false		(1), (2), (3)

Fixed Targets

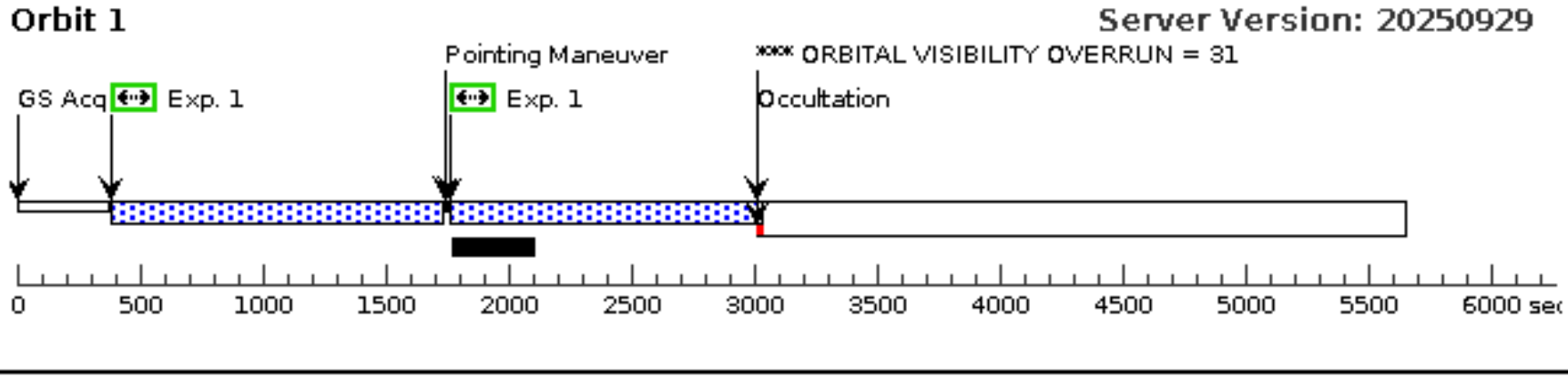
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	J1256	RA: 12 56 44.1500 (194.1839583d) Dec: +45 09 17.01 (45.15472d) Equinox: J2000	Redshift: 0.353	V=22.01+/-0.05 FUV=21.66, NUV=21.85	Reference Frame: ICRS

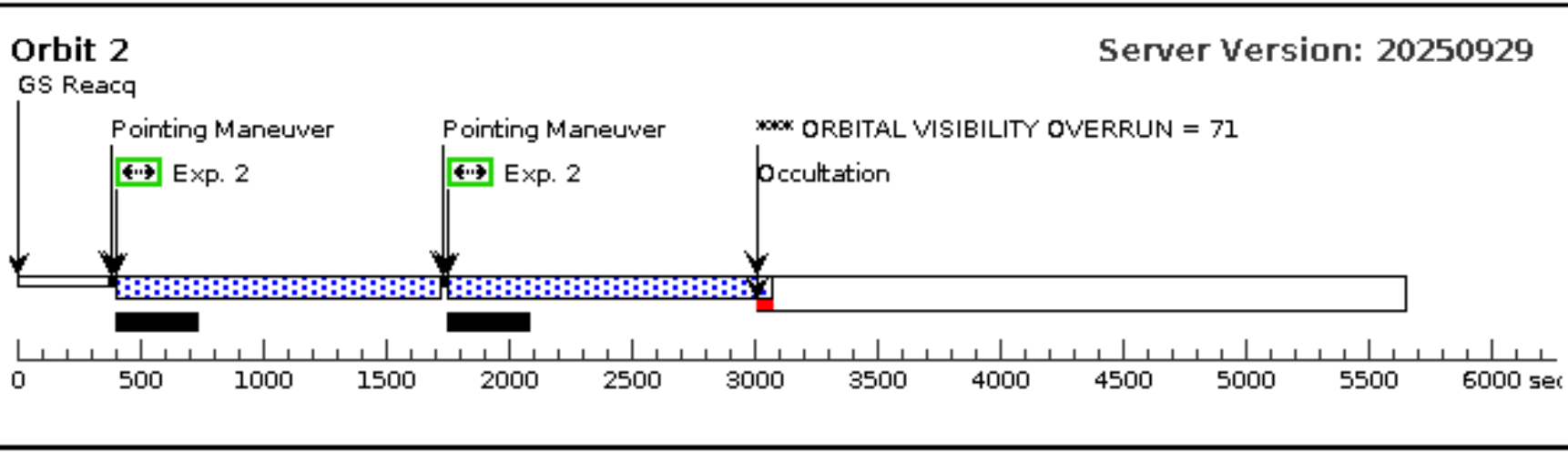
Comments:
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]

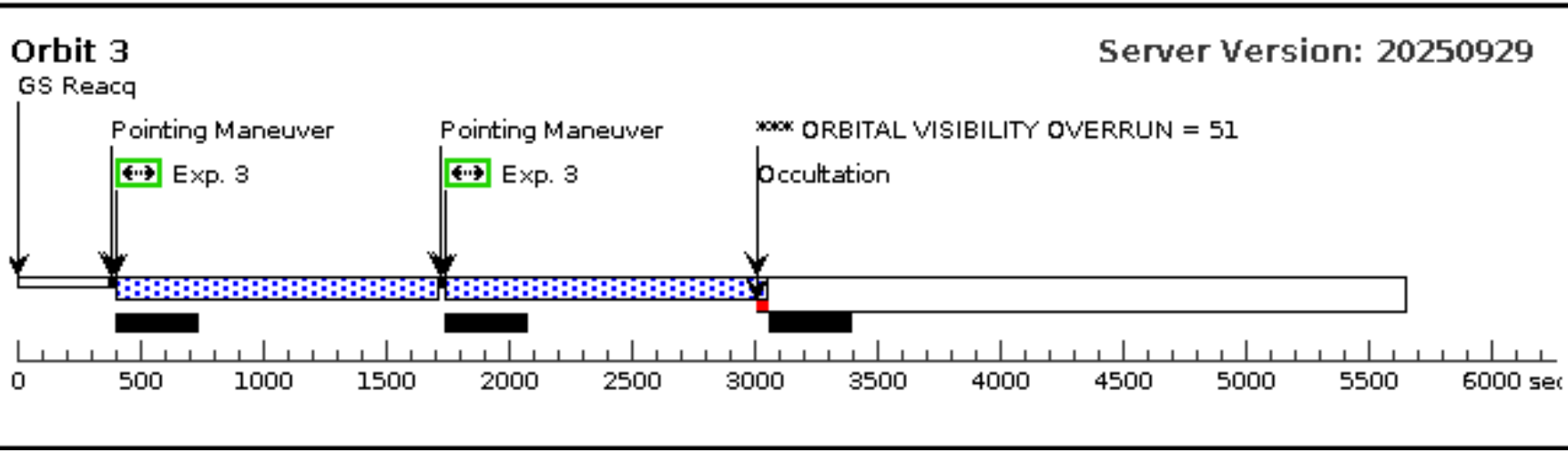
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) J1256	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3788 A			Pattern 1, Exps 1-1 in J1256 (02) (1)	1000 Secs (2284 Secs) *[==>1142.0 Secs (Pattern 1)]* *[==>1142.0 Secs (Pattern 2)]*	***[1]***
2		(1) J1256	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3788 A			Pattern 1, Exps 2-2 in J1256 (02) (1)	1000 Secs (2386 Secs) *[==>1193.0 Secs (Pattern 1)]* *[==>1193.0 Secs (Pattern 2)]*	***[2]***
3		(1) J1256	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3788 A			Pattern 1, Exps 3-3 in J1256 (02) (1)	1000 Secs (2366 Secs) *[==>1183.0 Secs (Pattern 1)]* *[==>1183.0 Secs (Pattern 2)]*	***[3]***

Orbit Structure







Visit

Proposal 17761, J1256 (03), completed Wed Feb 11 17:00:56 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: ACS/WFC

Special Requirements: (none)

Diagnostics

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Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false		(1)

Fixed Targets

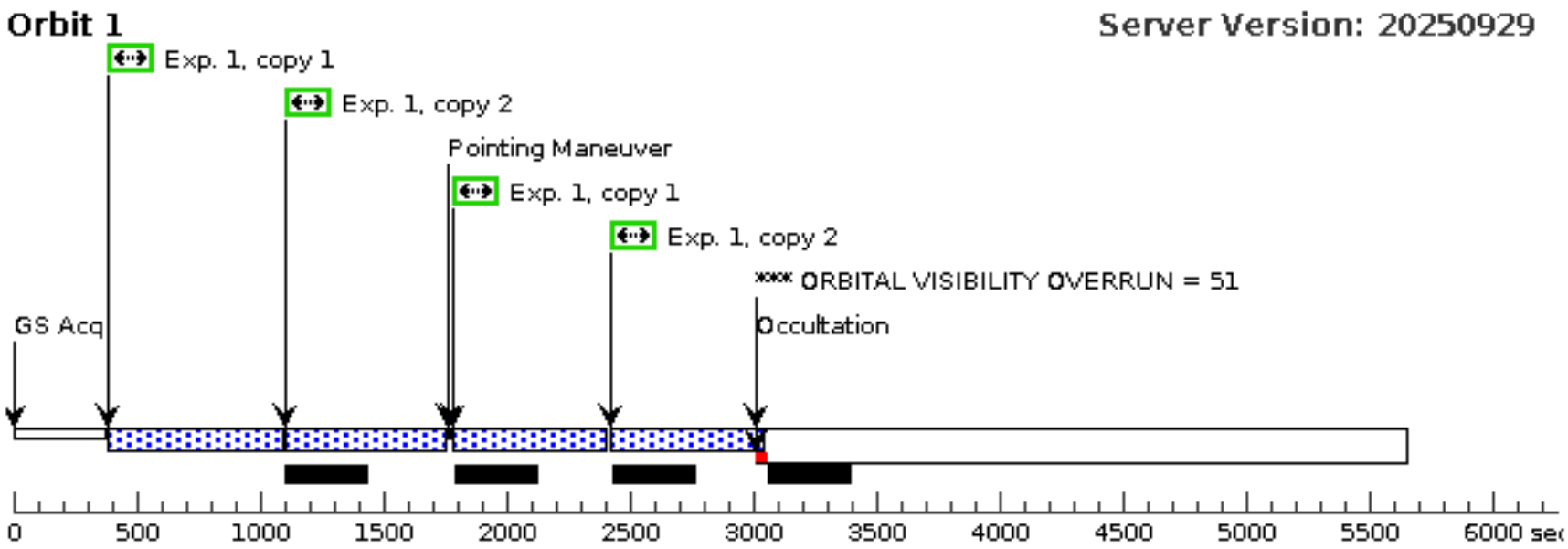
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	J1256	RA: 12 56 44.1500 (194.1839583d) Dec: +45 09 17.01 (45.15472d) Equinox: J2000	Redshift: 0.353	V=22.01+/-0.05 FUV=21.66, NUV=21.85	Reference Frame: ICRS

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

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) J1256	ACS/WFC, ACCUM, WFC1-MRAMP	FR459M 4200 A			Pattern 1, Exps 1-1 in J1256 (03) (1)	1000 Secs X 2 (2028 Secs) *[==>500 Secs (Pattern 1, Copy 1)]* *[==>528.0 Secs (Pattern 1, Copy 2)]* *[==>500 Secs (Pattern 2, Copy 1)]* *[==>500 Secs (Pattern 2, Copy 2)]*	***[1]***

Orbit Structure



Visit

Proposal 17761, J1243 (04), completed Wed Feb 11 17:00:56 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: ACS/WFC

Special Requirements: (none)

Diagnostics

(J1243 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J1243 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

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Patterns

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Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	J1243	RA: 12 43 0.6300 (190.7526250d) Dec: +46 46 50.40 (46.78067d) Equinox: J2000	Redshift: 0.432	V=21.48+/-0.05 FUV=21.31, NUV=21.61	Reference Frame: ICRS

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

Exposures

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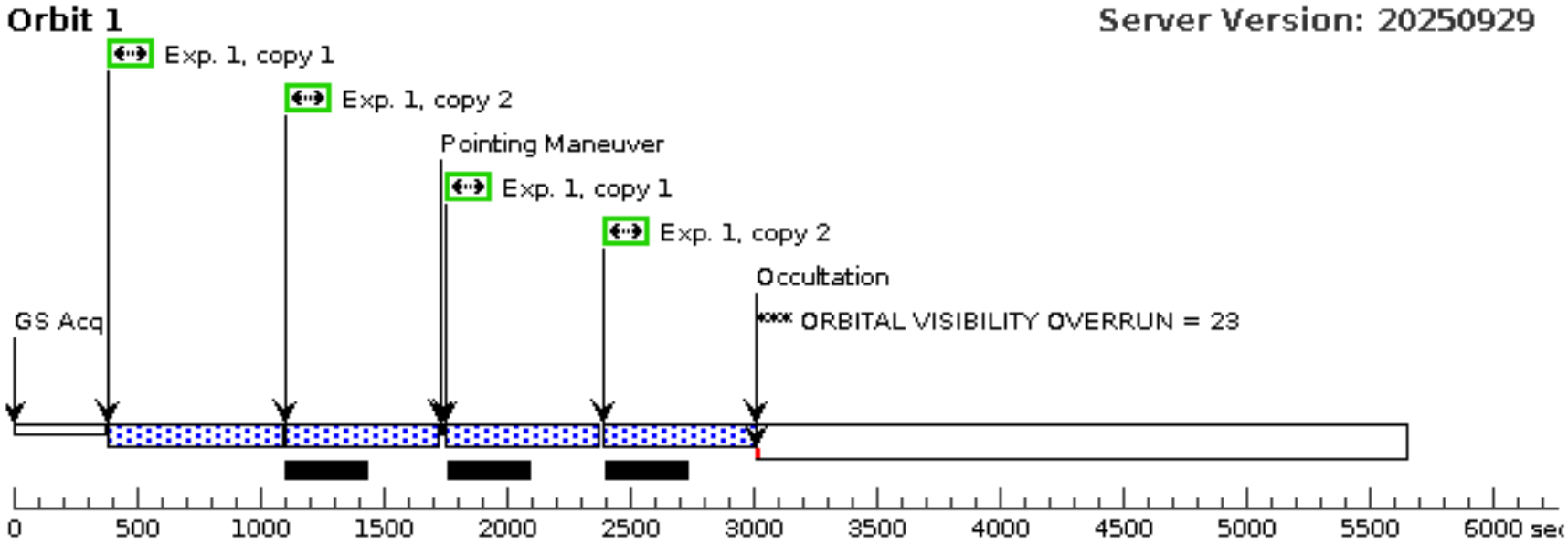
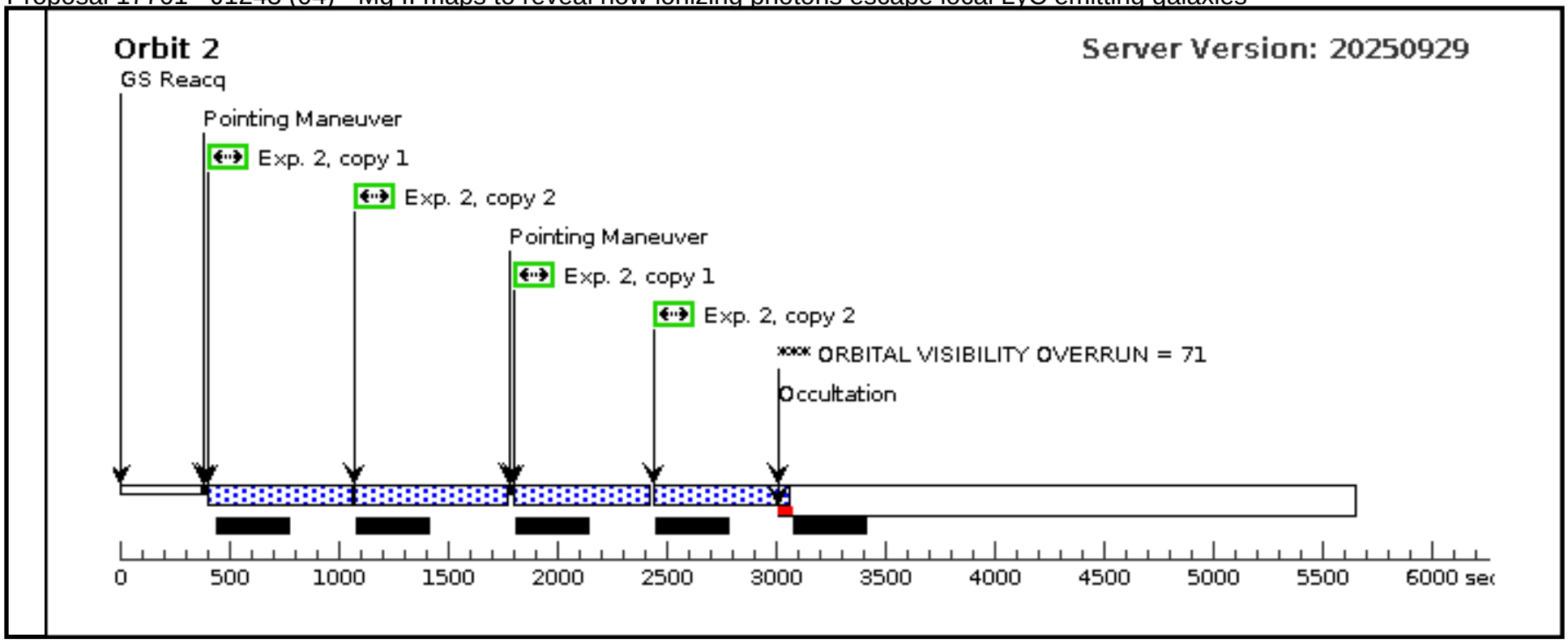
2		(2) J1243	ACS/WFC, ACCUM, WFC1-MRAMP	FR459M 4200 A			Pattern 1, Exps 2-2 in J1243 (04) (1)	1000 Secs X 2 (2076 Secs) *[==>500.0 Secs (Pattern 1, Copy 1)]* *[==>576.0 Secs (Pattern 1, Copy 2)]* *[==>500.0 Secs (Pattern 2, Copy 1)]* *[==>500 Secs (Pattern 2, Copy 2)]*	***[2]***

Orbit Structure

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Visit

Proposal 17761, J1154 (05), scheduling Wed Feb 11 17:00:56 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: ACS/WFC

Special Requirements: (none)

Diagnostics

(J1154 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

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(Exposure 1 (Pattern 1, Exps 1-1 in J1154 (05))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

(Exposure 2 (Pattern 1, Exps 2-2 in J1154 (05))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

(Exposure 3 (Pattern 1, Exps 3-3 in J1154 (05))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false		(1), (2), (3)

Fixed Targets

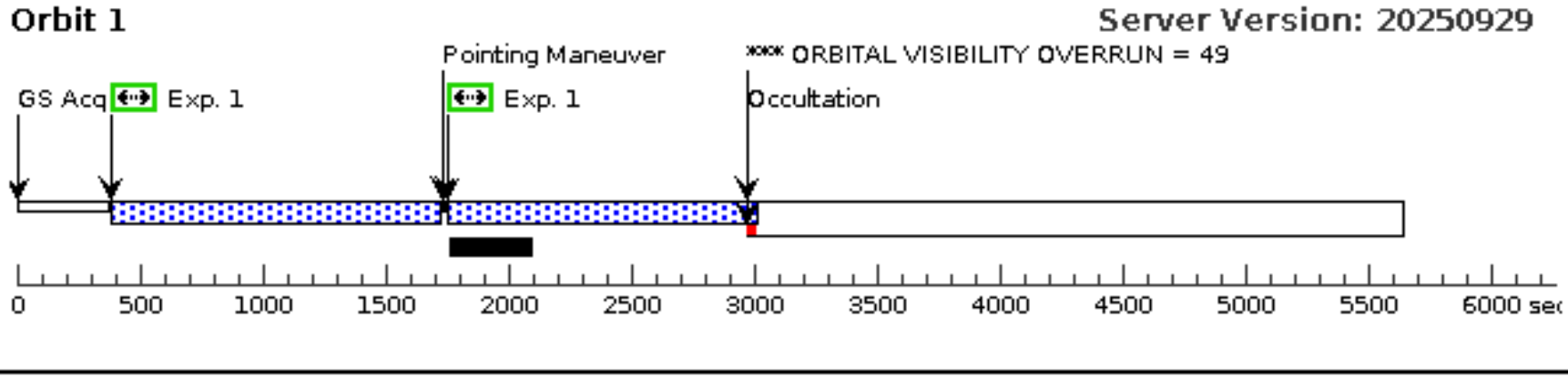
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	J1154	RA: 11 54 48.8500 (178.7035417d) Dec: +24 43 33.03 (24.72584d) Equinox: J2000	Redshift: 0.369	V=21.77+/-0.05 FUV=22.10, NUV=21.57	Reference Frame: ICRS

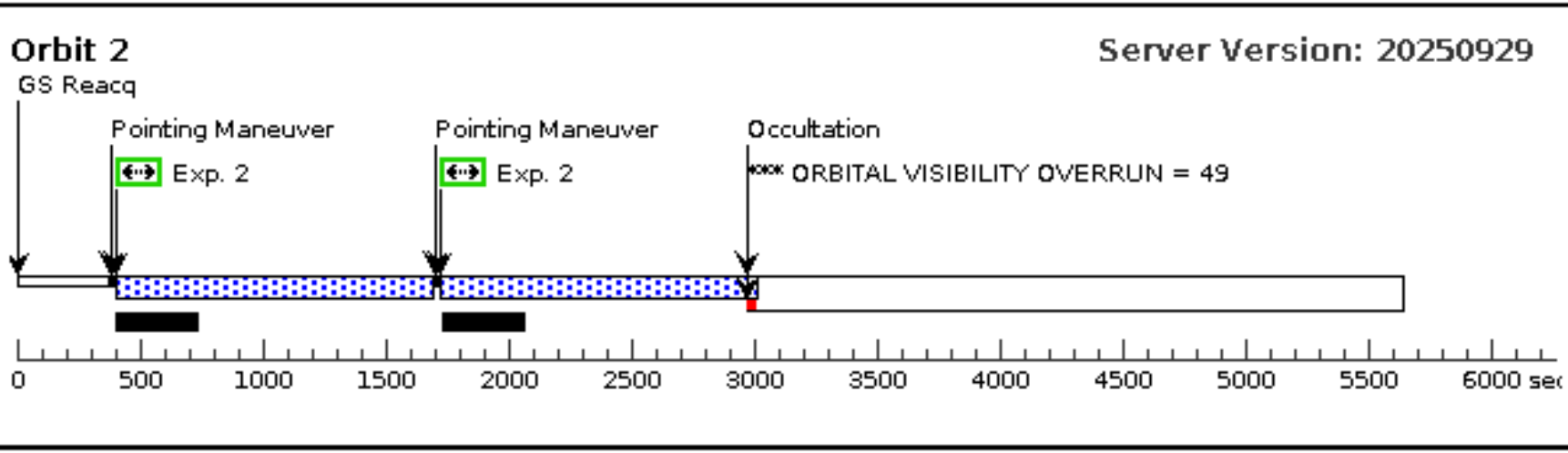
Comments:
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]

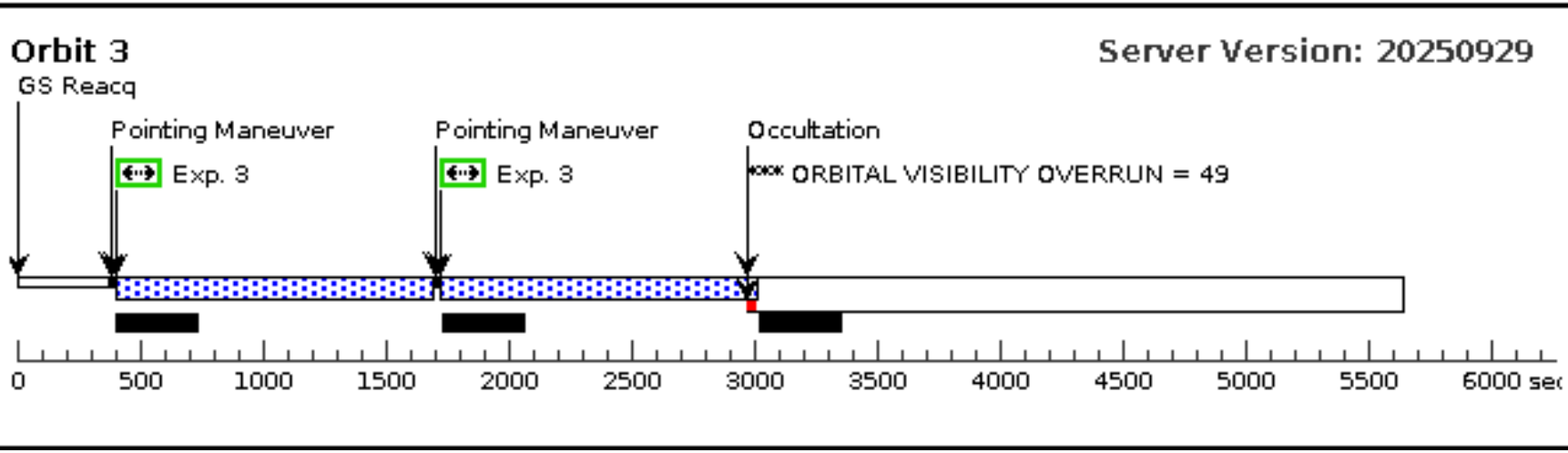
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(3) J1154	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3833 A			Pattern 1, Exps 1-1 in J1154 (05) (1)	1000 Secs (2270 Secs) *[==>1135.0 Secs (Pattern 1)]* *[==>1135.0 Secs (Pattern 2)]*	***[1]***
2		(3) J1154	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3833 A			Pattern 1, Exps 2-2 in J1154 (05) (1)	1000 Secs (2332 Secs) *[==>1166.0 Secs (Pattern 1)]* *[==>1166.0 Secs (Pattern 2)]*	***[2]***
3		(3) J1154	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3833 A			Pattern 1, Exps 3-3 in J1154 (05) (1)	1000 Secs (2332 Secs) *[==>1166.0 Secs (Pattern 1)]* *[==>1166.0 Secs (Pattern 2)]*	***[3]***

Orbit Structure







Visit

Proposal 17761, J1154 (06), scheduled Wed Feb 11 17:00:56 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: ACS/WFC

Special Requirements: (none)

Diagnostics

(J1154 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J1154 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J1154 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Exposure 1 (Pattern 1, Exps 1-1 in J1154 (06))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

(Exposure 2 (Pattern 1, Exps 2-2 in J1154 (06))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

(Exposure 3 (Pattern 1, Exps 3-3 in J1154 (06))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false		(1), (2), (3)

Fixed Targets

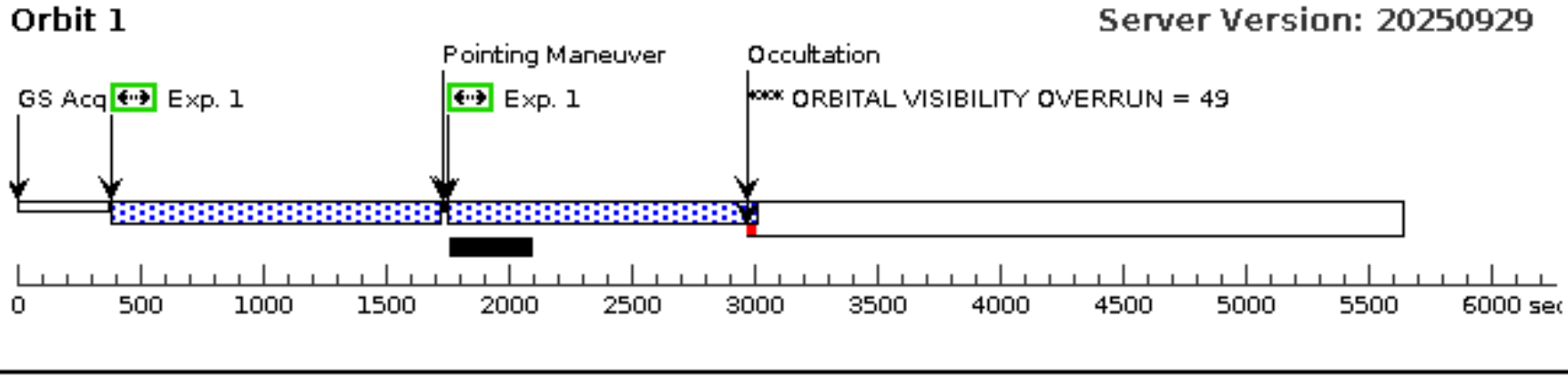
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	J1154	RA: 11 54 48.8500 (178.7035417d) Dec: +24 43 33.03 (24.72584d) Equinox: J2000	Redshift: 0.369	V=21.77+/-0.05 FUV=22.10, NUV=21.57	Reference Frame: ICRS

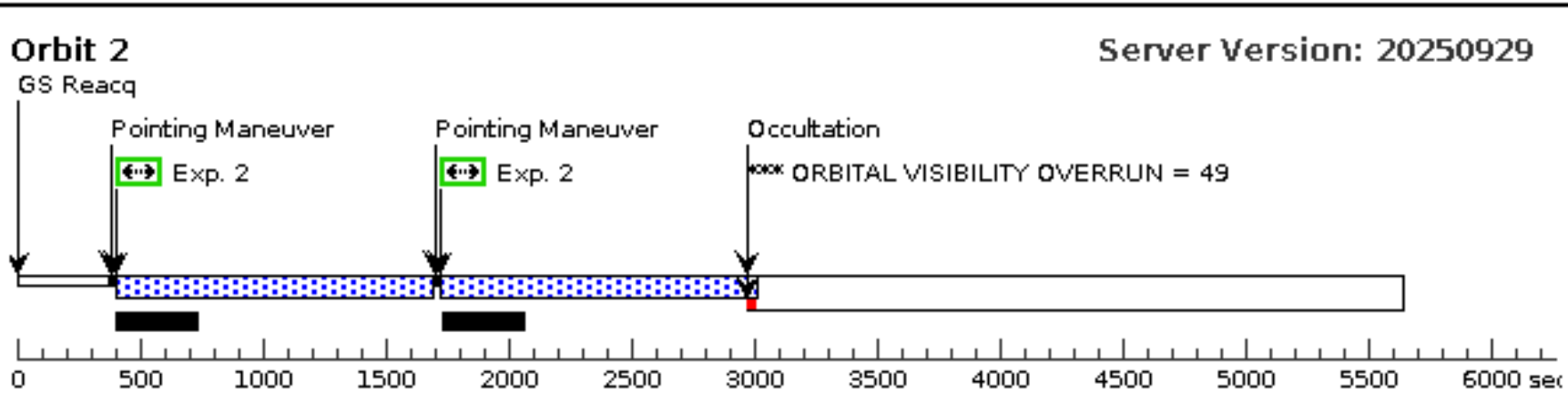
Comments:
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]

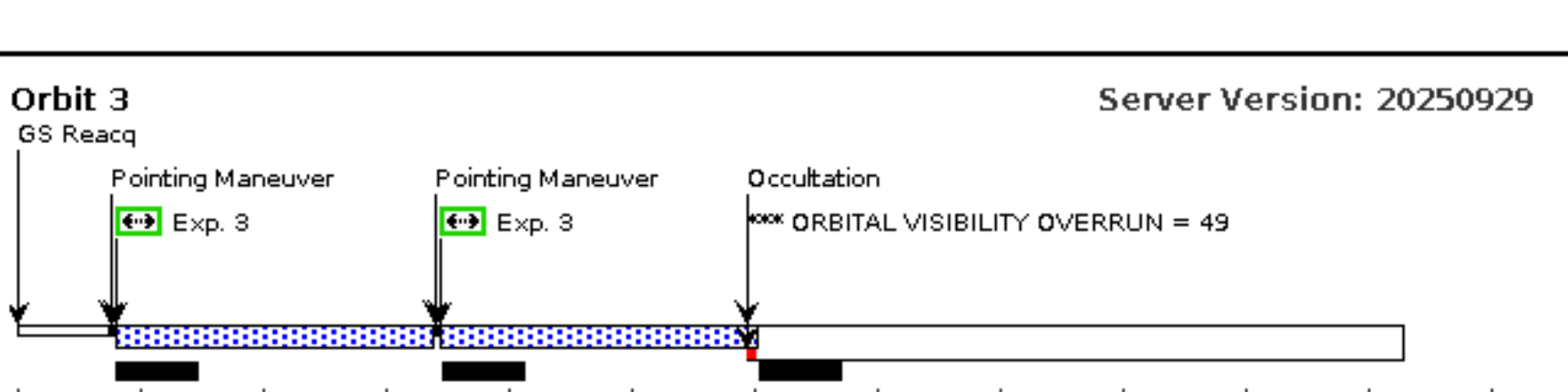
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(3) J1154	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3833 A			Pattern 1, Exps 1-1 in J1154 (06) (1)	1000 Secs (2270 Secs) *[==>1135.0 Secs (Pattern 1)]* *[==>1135.0 Secs (Pattern 2)]*	***[1]***
2		(3) J1154	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3833 A			Pattern 1, Exps 2-2 in J1154 (06) (1)	1000 Secs (2332 Secs) *[==>1166.0 Secs (Pattern 1)]* *[==>1166.0 Secs (Pattern 2)]*	***[2]***
3		(3) J1154	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3833 A			Pattern 1, Exps 3-3 in J1154 (06) (1)	1000 Secs (2332 Secs) *[==>1166.0 Secs (Pattern 1)]* *[==>1166.0 Secs (Pattern 2)]*	***[3]***

Orbit Structure







Visit

Proposal 17761, J1154 (07), scheduling Wed Feb 11 17:00:56 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: ACS/WFC

Special Requirements: (none)

Diagnostics

(J1154 (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J1154 (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Exposure 1 (Pattern 1, Exps 1-1 in J1154 (07))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

(Exposure 2 (Pattern 1, Exps 2-2 in J1154 (07))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false		(1), (2)

Fixed Targets

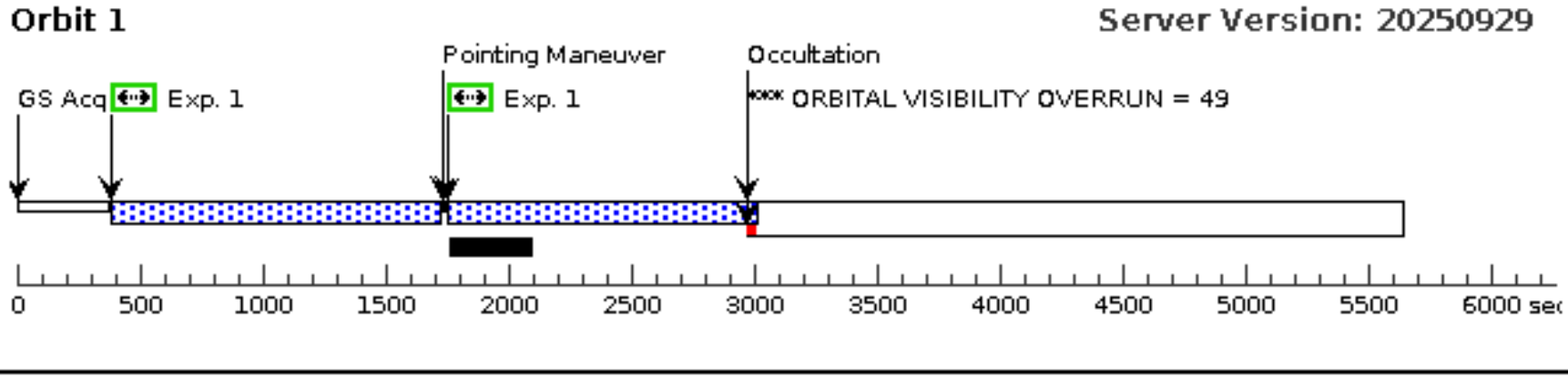
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	J1154	RA: 11 54 48.8500 (178.7035417d) Dec: +24 43 33.03 (24.72584d) Equinox: J2000	Redshift: 0.369	V=21.77+/-0.05 FUV=22.10, NUV=21.57	Reference Frame: ICRS

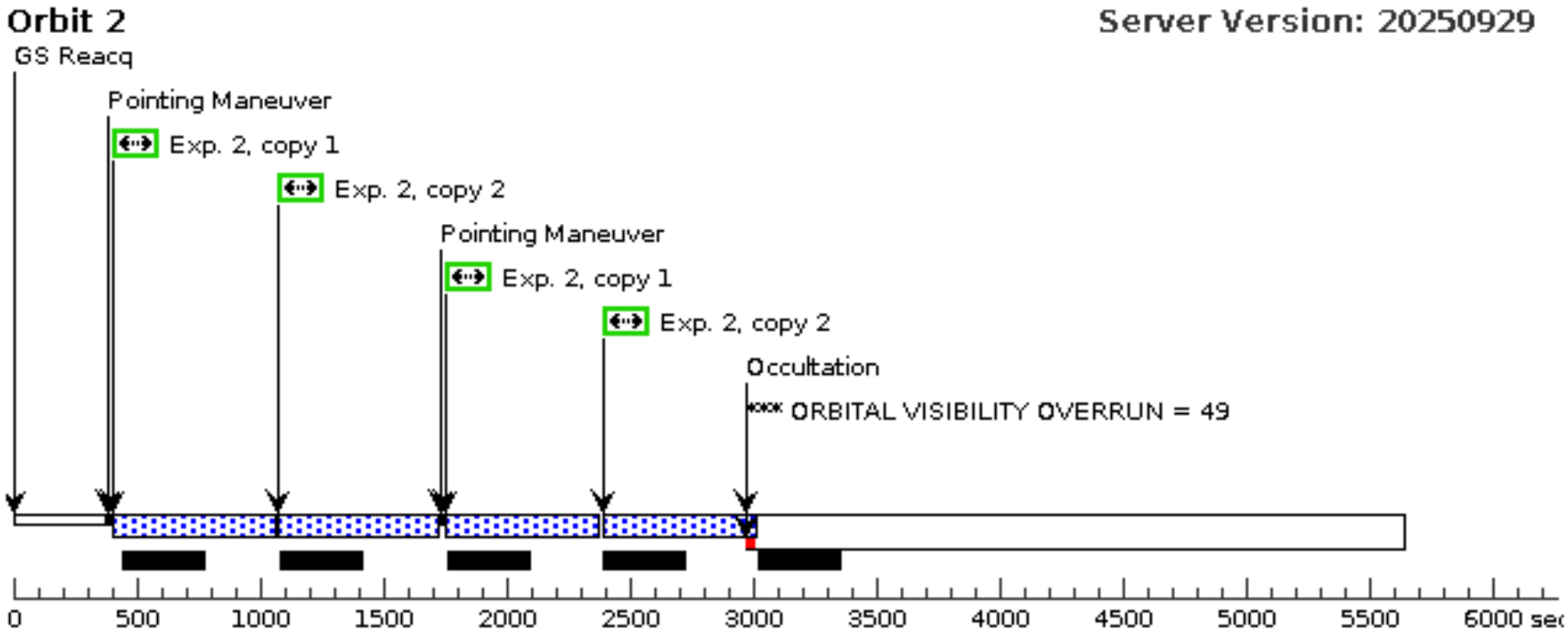
Comments:
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(3) J1154	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3833 A			Pattern 1, Exps 1-1 in J1154 (07) (1)	1000 Secs (2270 Secs) *[==>1135.0 Secs (Pattern 1)]* *[==>1135.0 Secs (Pattern 2)]*	***[1]***
2		(3) J1154	ACS/WFC, ACCUM, WFC1-MRAMP	FR459M 4200 A			Pattern 1, Exps 2-2 in J1154 (07) (1)	1000 Secs X 2 (2022 Secs) *[==>500 Secs (Pattern 1, Copy 1)]* *[==>522.0 Secs (Pattern 1, Copy 2)]* *[==>500 Secs (Pattern 2, Copy 1)]* *[==>500 Secs (Pattern 2, Copy 2)]*	***[2]***

Orbit Structure





Visit

Proposal 17761, J1137 (08), completed Wed Feb 11 17:00:56 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: ACS/WFC

Special Requirements: (none)

Diagnostics

(J1137 (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J1137 (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J1137 (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Exposure 1 (Pattern 1, Exps 1-1 in J1137 (08))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

(Exposure 2 (Pattern 1, Exps 2-2 in J1137 (08))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

(Exposure 3 (Pattern 1, Exps 3-3 in J1137 (08))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false		(1), (2), (3)

Fixed Targets

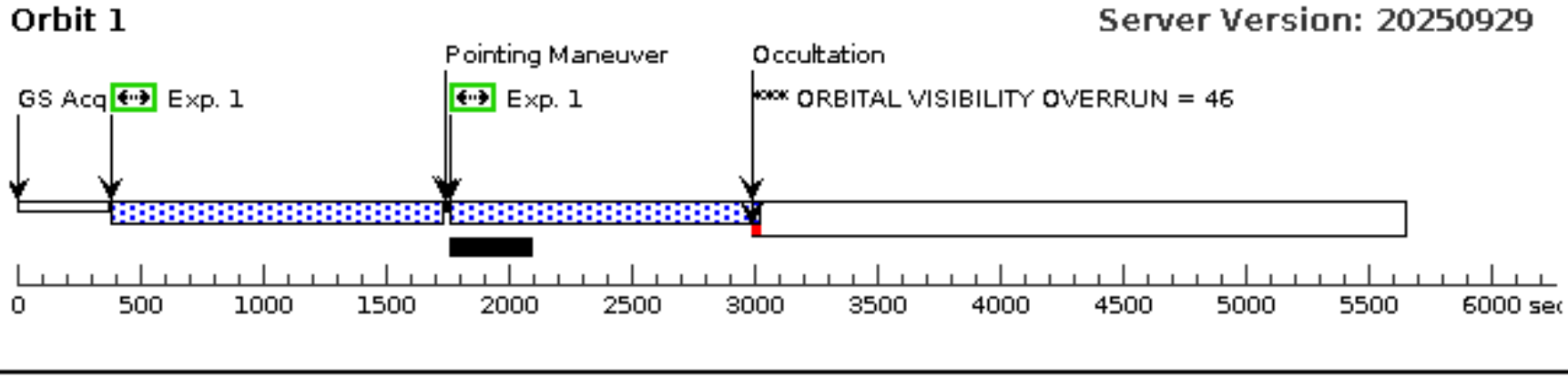
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	J1137	RA: 11 37 47.7700 (174.4490417d) Dec: +36 05 4.62 (36.08462d) Equinox: J2000	Redshift: 0.3439	V= 21.79+/-0.05 NUV=22.46	Reference Frame: ICRS

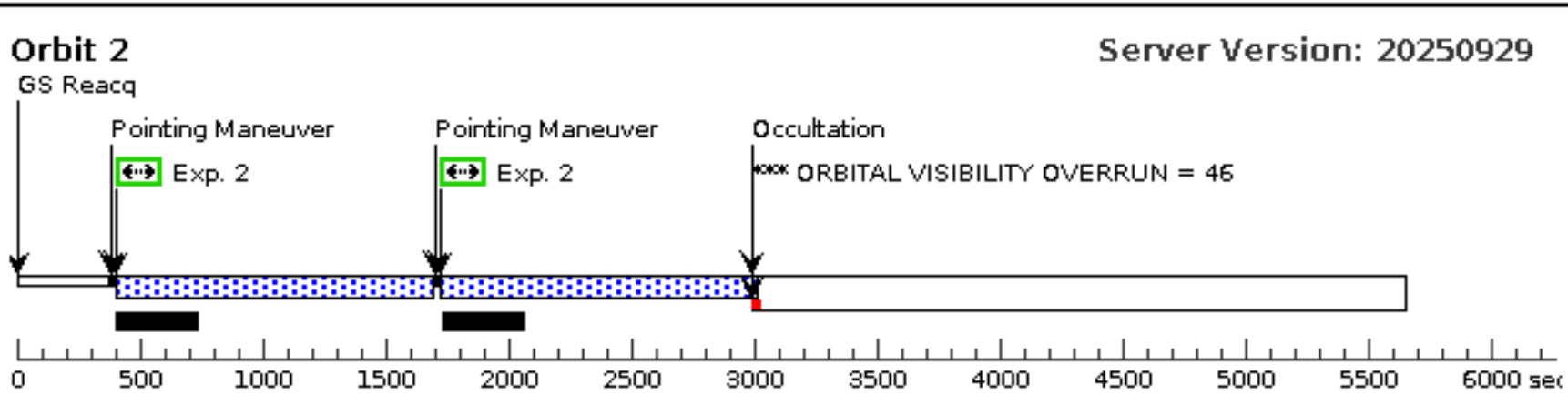
Comments:
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]

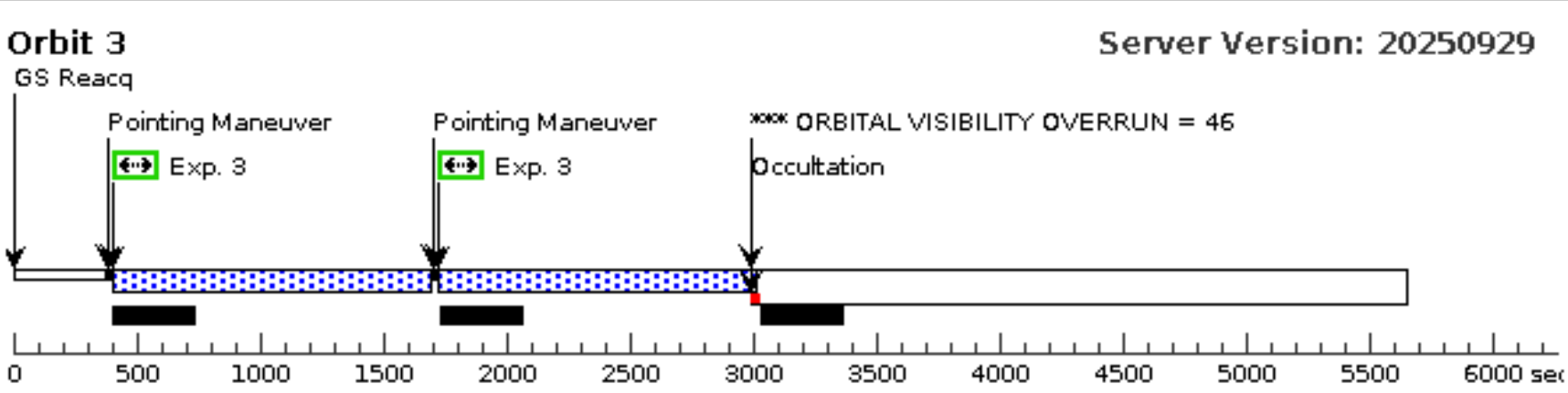
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(4) J1137	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3763 A			Pattern 1, Exps 1-1 in J1137 (08) (1)	1000 Secs (2280 Secs) *[==>1140.0 Secs (Pattern 1)]* *[==>1140.0 Secs (Pattern 2)]*	***[1]***
2		(4) J1137	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3763 A			Pattern 1, Exps 2-2 in J1137 (08) (1)	1000 Secs (2342 Secs) *[==>1171.0 Secs (Pattern 1)]* *[==>1171.0 Secs (Pattern 2)]*	***[2]***
3		(4) J1137	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3763 A			Pattern 1, Exps 3-3 in J1137 (08) (1)	1000 Secs (2342 Secs) *[==>1171.0 Secs (Pattern 1)]* *[==>1171.0 Secs (Pattern 2)]*	***[3]***

Orbit Structure







Visit

Proposal 17761, J1137 (09), completed Wed Feb 11 17:00:56 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: ACS/WFC

Special Requirements: (none)

Diagnostics

(J1137 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J1137 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J1137 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Exposure 1 (Pattern 1, Exps 1-1 in J1137 (09))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

(Exposure 2 (Pattern 1, Exps 2-2 in J1137 (09))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

(Exposure 3 (Pattern 1, Exps 3-3 in J1137 (09))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false		(1), (2), (3)

Fixed Targets

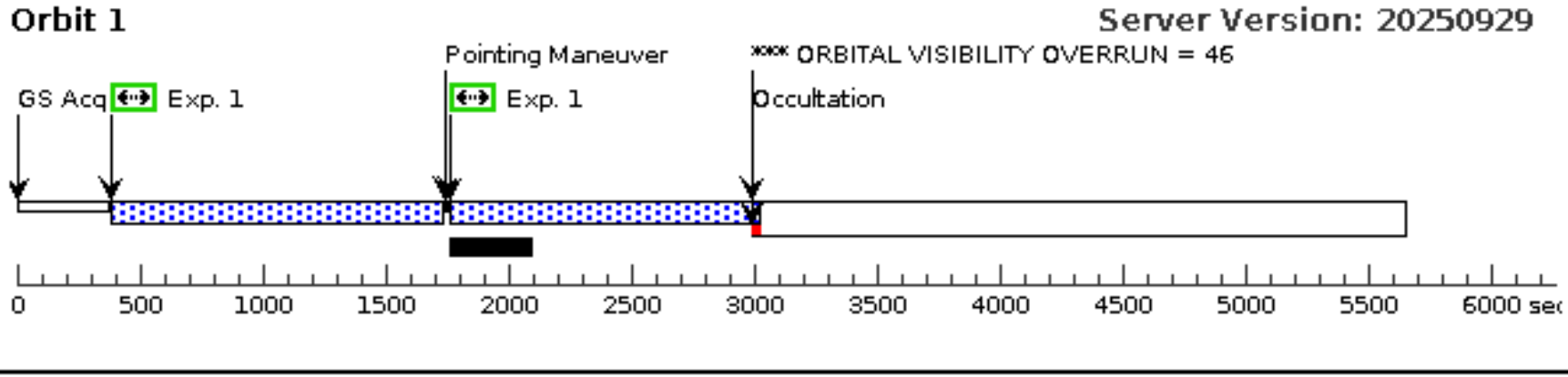
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	J1137	RA: 11 37 47.7700 (174.4490417d) Dec: +36 05 4.62 (36.08462d) Equinox: J2000	Redshift: 0.3439	V= 21.79+/-0.05 NUV=22.46	Reference Frame: ICRS

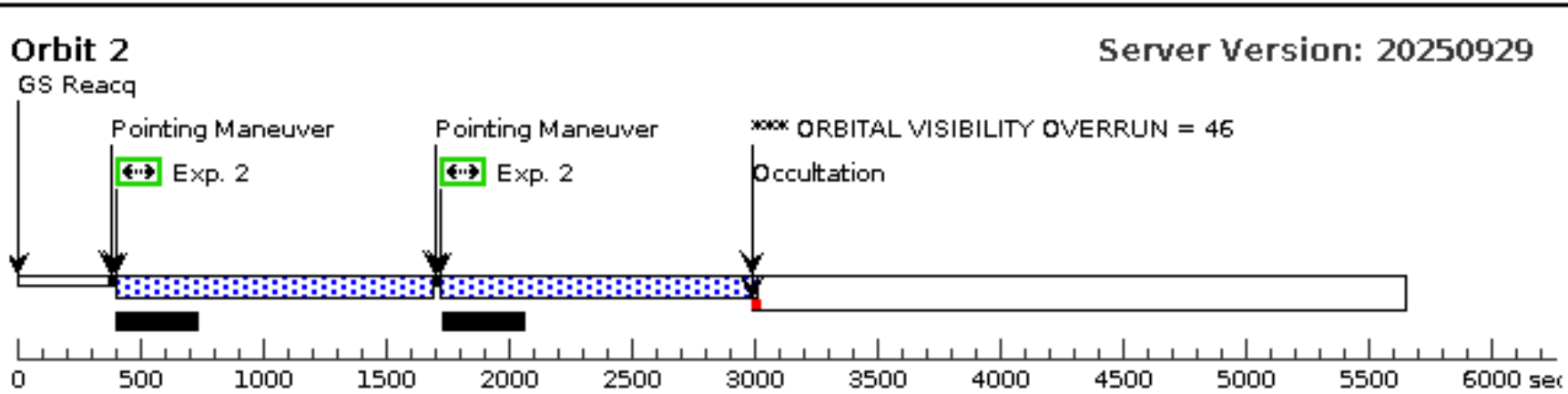
Comments:
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]

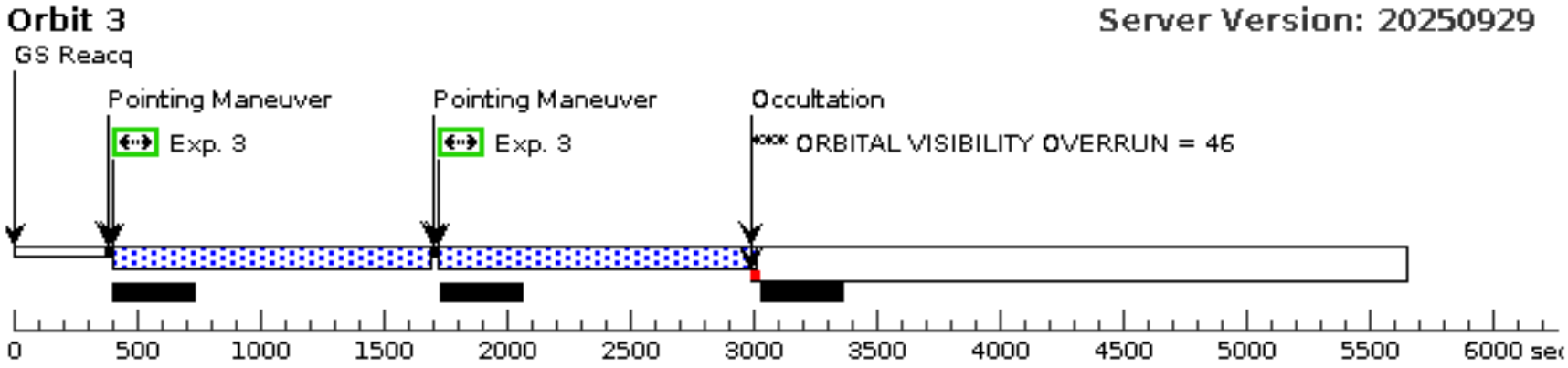
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(4) J1137	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3763 A			Pattern 1, Exps 1-1 in J1137 (09) (1)	1000 Secs (2280 Secs) *[==>1140.0 Secs (Pattern 1)]* *[==>1140.0 Secs (Pattern 2)]*	***[1]***
2		(4) J1137	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3763 A			Pattern 1, Exps 2-2 in J1137 (09) (1)	1000 Secs (2342 Secs) *[==>1171.0 Secs (Pattern 1)]* *[==>1171.0 Secs (Pattern 2)]*	***[2]***
3		(4) J1137	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3763 A			Pattern 1, Exps 3-3 in J1137 (09) (1)	1000 Secs (2342 Secs) *[==>1171.0 Secs (Pattern 1)]* *[==>1171.0 Secs (Pattern 2)]*	***[3]***

Orbit Structure







Visit

Proposal 17761, J1137 (10), completed Wed Feb 11 17:00:56 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: ACS/WFC

Special Requirements: (none)

Diagnostics

(J1137 (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J1137 (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Exposure 1 (Pattern 1, Exps 1-1 in J1137 (10))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

(Exposure 2 (Pattern 1, Exps 2-2 in J1137 (10))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false		(1), (2)

Fixed Targets

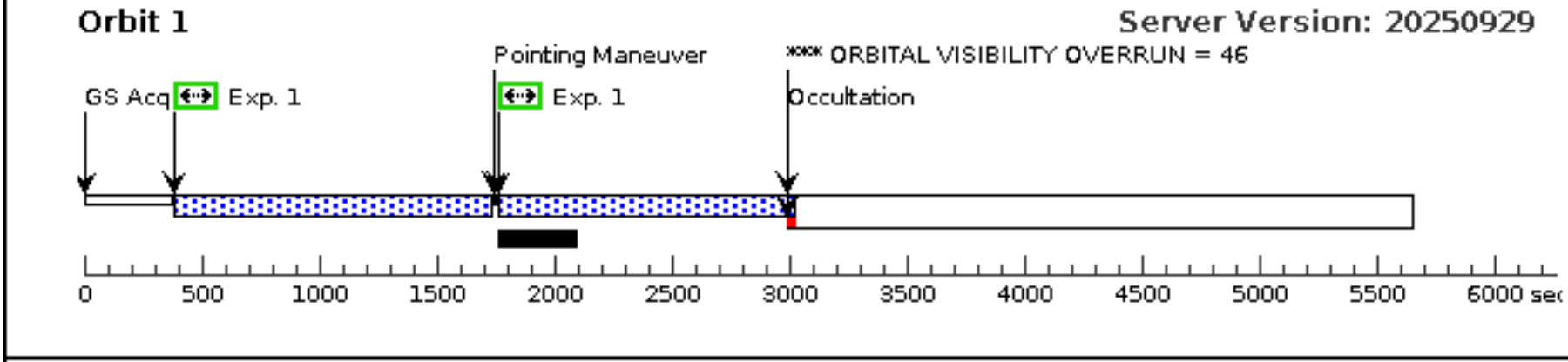
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	J1137	RA: 11 37 47.7700 (174.4490417d) Dec: +36 05 4.62 (36.08462d) Equinox: J2000	Redshift: 0.3439	V= 21.79+/-0.05 NUV=22.46	Reference Frame: ICRS

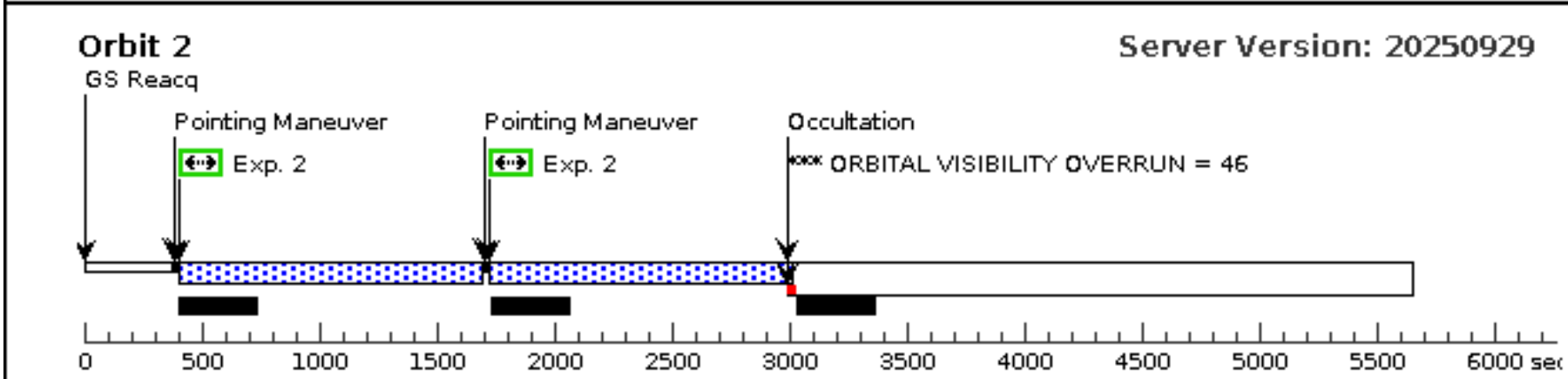
Comments:
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(4) J1137	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3763 A			Pattern 1, Exps 1-1 in J1137 (10) (1)	1000 Secs (2280 Secs) *[==>1140.0 Secs (Pattern 1)]* *[==>1140.0 Secs (Pattern 2)]*	***[1]***
2		(4) J1137	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3763 A			Pattern 1, Exps 2-2 in J1137 (10) (1)	1000 Secs (2342 Secs) *[==>1171.0 Secs (Pattern 1)]* *[==>1171.0 Secs (Pattern 2)]*	***[2]***

Orbit Structure





Proposal 17761 - J1137 (11) - Mg II maps to reveal how ionizing photons escape local LyC emitting galaxies

Visit

Proposal 17761, J1137 (11), completed Wed Feb 11 17:00:56 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: ACS/WFC

Special Requirements: (none)

Diagnostics

(J1137 (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J1137 (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Exposure 1 (Pattern 1, Exps 1-1 in J1137 (11))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

(Exposure 2 (Pattern 1, Exps 2-2 in J1137 (11))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

(Exposure 3 (Pattern 1, Exps 3-3 in J1137 (11))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

(Exposure 4 (Pattern 1, Exps 4-4 in J1137 (11))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

(Exposure 5 (Pattern 1, Exps 5-5 in J1137 (11))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false		(1), (2), (3), (4), (5)

Fixed Targets

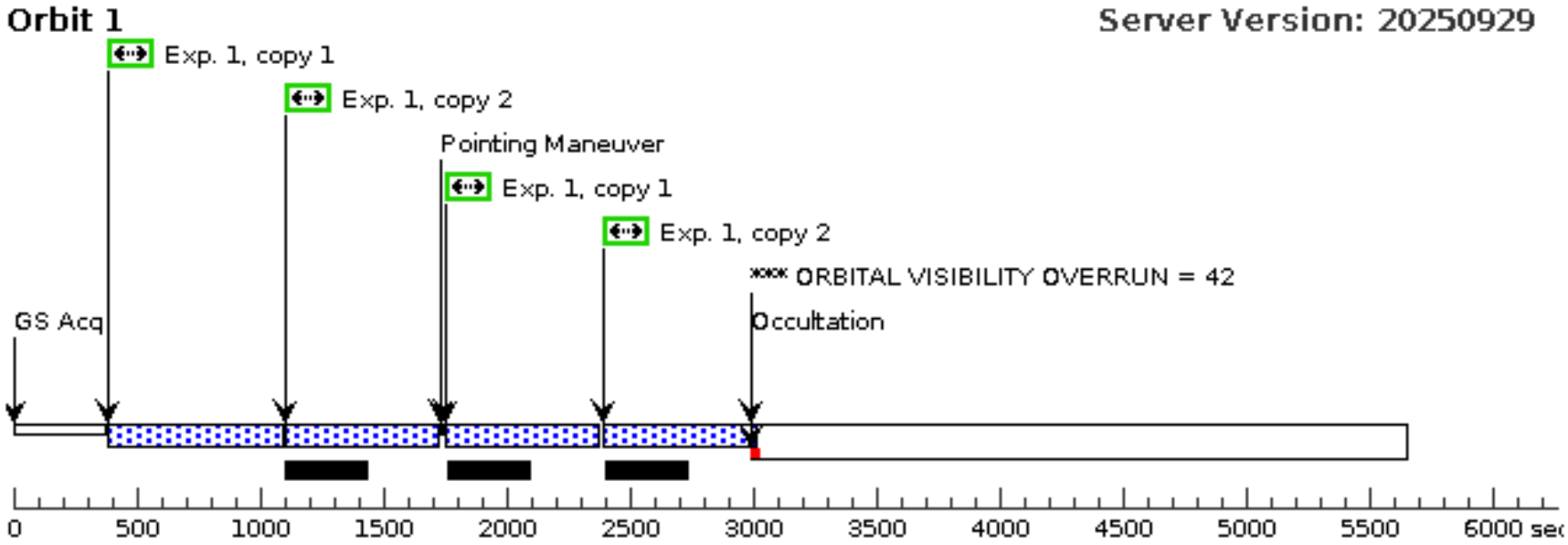
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	J1137	RA: 11 37 47.7700 (174.4490417d) Dec: +36 05 4.62 (36.08462d) Equinox: J2000	Redshift: 0.3439	V= 21.79+/-0.05 NUV=22.46	Reference Frame: ICRS

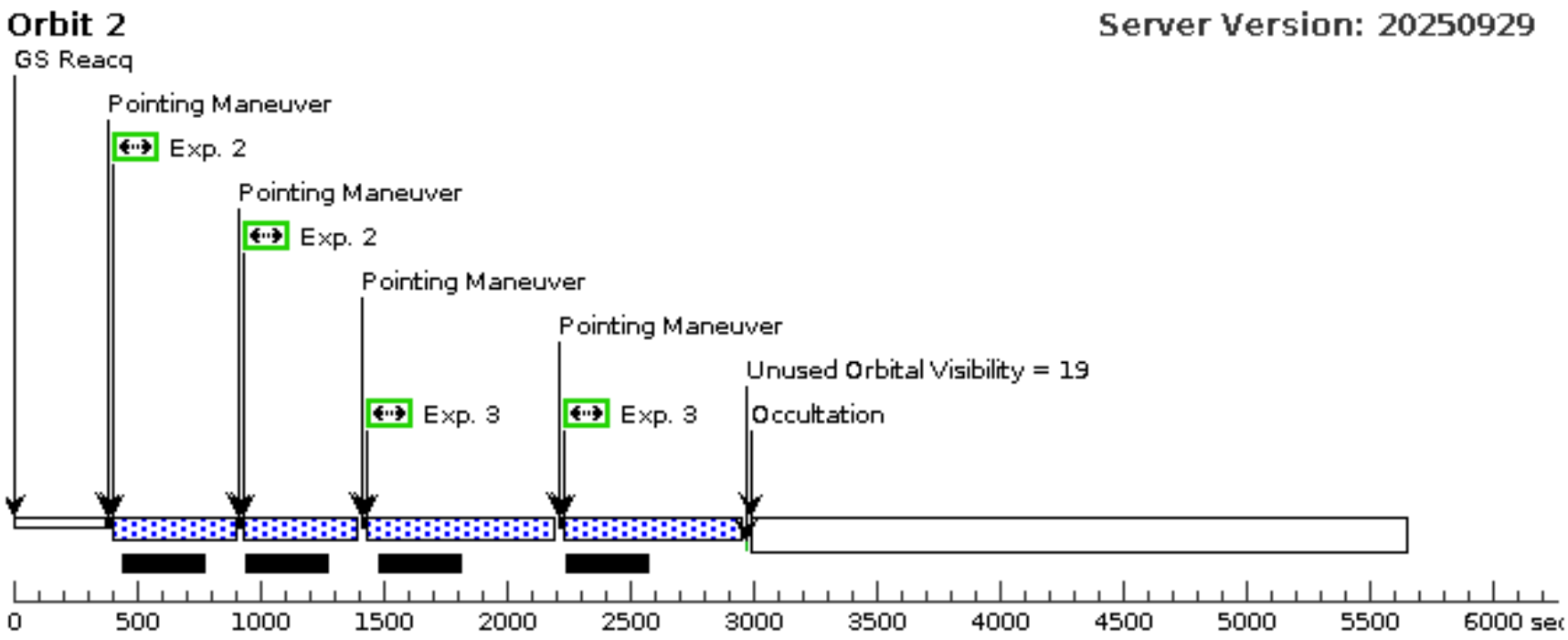
Comments:
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(4) J1137	ACS/WFC, ACCUM, WFC1-MRAMP	FR459M 4200 A			Pattern 1, Exps 1-1 in J1137 (11) (1)	1000 Secs X 2 (2000 Secs)	
								[==>500.0 Secs (Pattern 1, Copy 1)] *[==>500.0 Secs (Pattern 1, Copy 2)]* *[==>500.0 Secs (Pattern 2, Copy 1)]* *[==>500.0 Secs (Pattern 2, Copy 2)]*	***[1]***
2		(4) J1137	ACS/WFC, ACCUM, WFC1-MRAMP	FR656N 6731 A			Pattern 1, Exps 2-2 in J1137 (11) (1)	340 Secs (680 Secs)	
								[==>(Pattern 1)] *[==>(Pattern 2)]*	***[2]***
3		(4) J1137	ACS/WFC, ACCUM, WFC1-MRAMP	FR459M 4850 A			Pattern 1, Exps 3-3 in J1137 (11) (1)	600 Secs (1200 Secs)	
								[==>(Pattern 1)] *[==>(Pattern 2)]*	***[2]***
4		(4) J1137	ACS/WFC, ACCUM, WFC1-IRAMP	FR647M 7130 A			Pattern 1, Exps 4-4 in J1137 (11) (1)	600 Secs (1246 Secs)	
								[==>623.0 Secs (Pattern 1)] *[==>623.0 Secs (Pattern 2)]*	***[3]***
5		(4) J1137	ACS/WFC, ACCUM, WFC1-MRAMP	FR505N 5009 A			Pattern 1, Exps 5-5 in J1137 (11) (1)	340 Secs (726 Secs)	
								[==>363.0 Secs (Pattern 1)] *[==>363.0 Secs (Pattern 2)]*	***[3]***

Orbit Structure

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Pointing Maneuver
Exp. 2
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Exp. 2
Pointing Maneuver
Exp. 3
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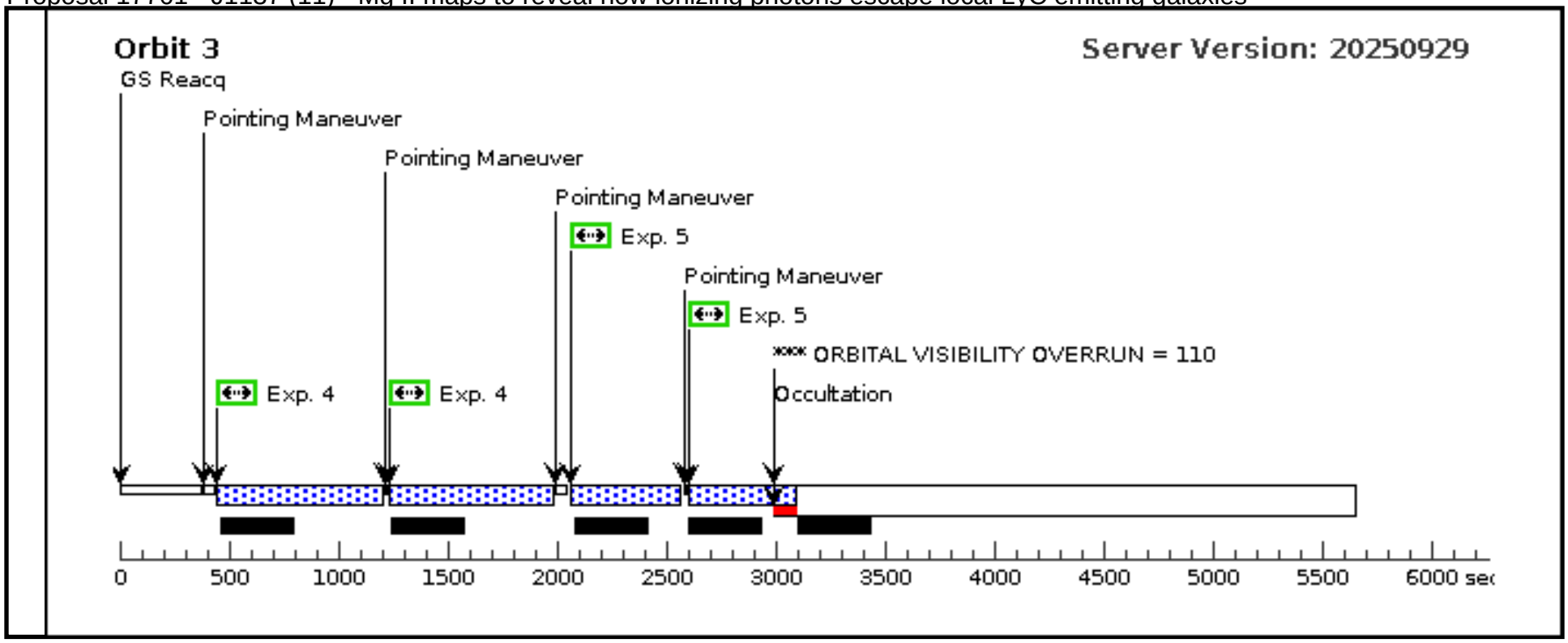
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GS Reacq
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Exp. 5
Pointing Maneuver
Exp. 5
**** ORBITAL VISIBILITY OVERRUN = 110
Occultation
Exp. 4
Exp. 4
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1500
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2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17761, J0141 (12), failed Wed Feb 11 17:00:56 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: ACS/WFC

Special Requirements: (none)

Diagnostics

(J0141 (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

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(Exposure 1 (Pattern 1, Exps 1-1 in J0141 (12))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

(Exposure 2 (Pattern 1, Exps 2-2 in J0141 (12))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

(Exposure 3 (Pattern 1, Exps 3-3 in J0141 (12))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

(Exposure 4 (Pattern 1, Exps 4-4 in J0141 (12))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

(Exposure 5 (Pattern 1, Exps 5-5 in J0141 (12))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false		(1), (2), (3), (4), (5)

Fixed Targets

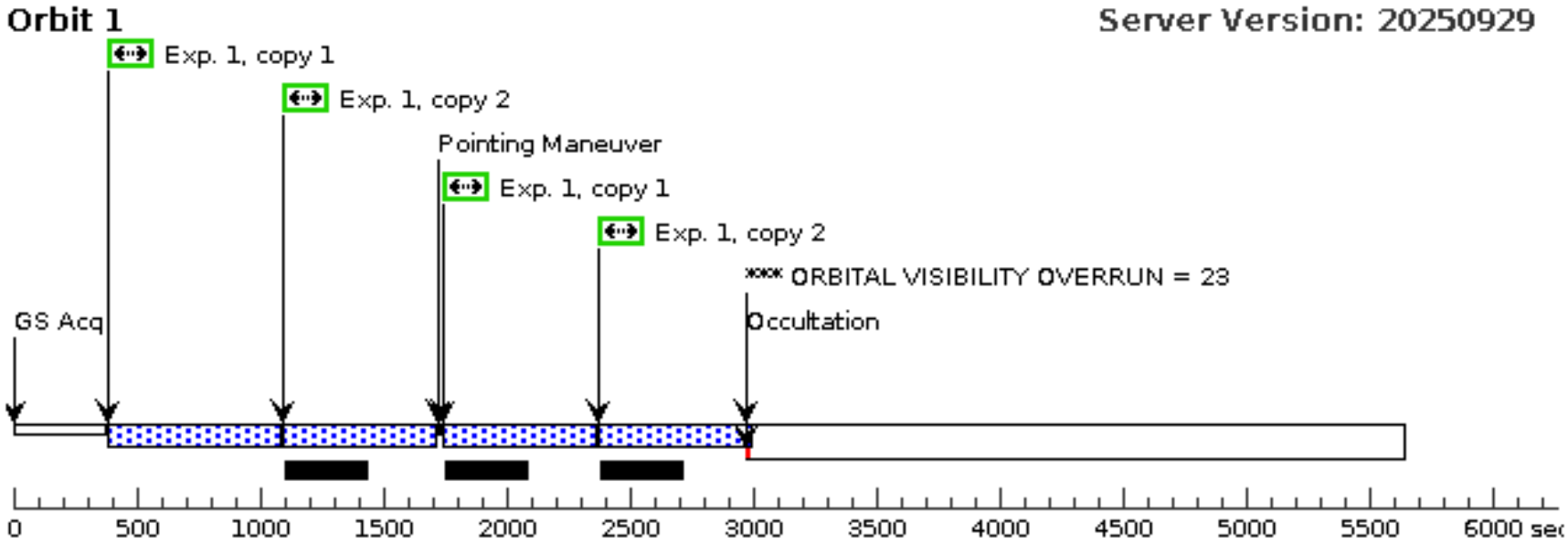
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	J0141	RA: 01 41 42.8500 (25.4285417d) Dec: -03 04 51.12 (-3.08087d) Equinox: J2000	Redshift: 0.3816	V=21.25+/-0.05 FUV=21.35, NUV=22.04	Reference Frame: ICRS

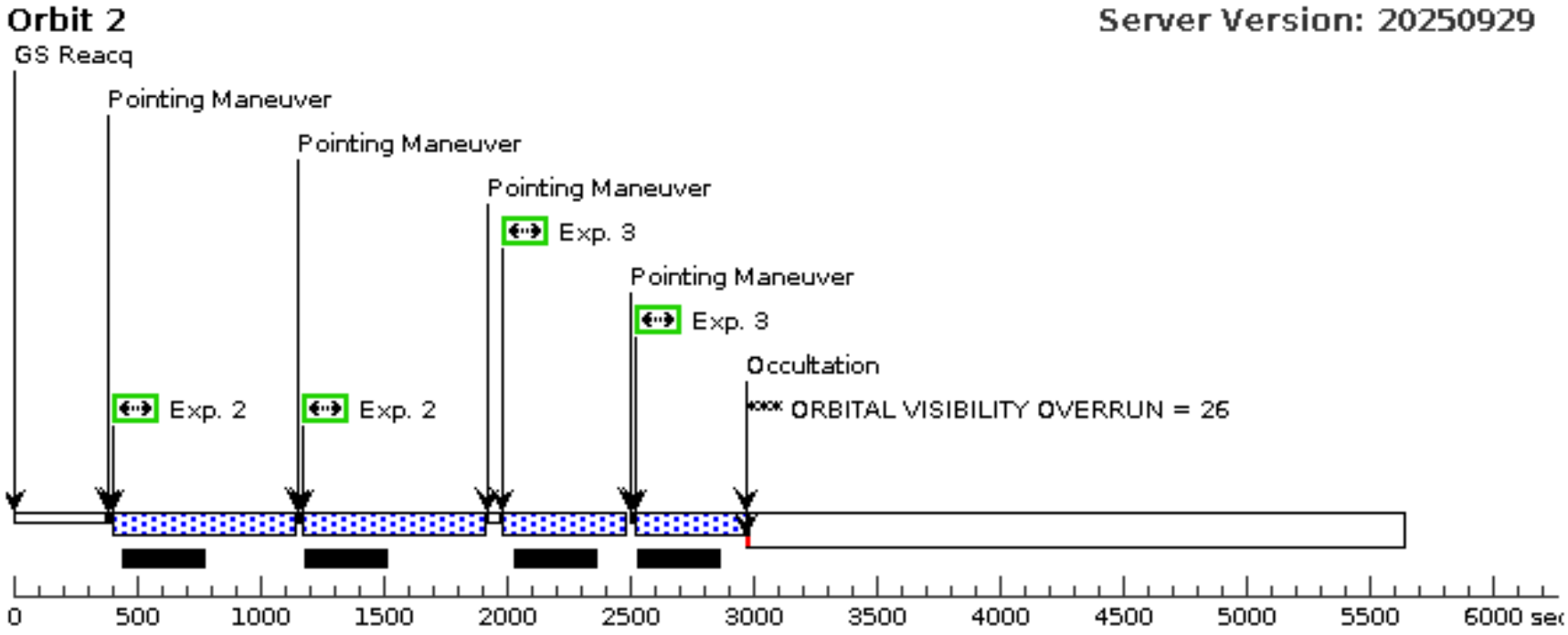
Comments:
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]

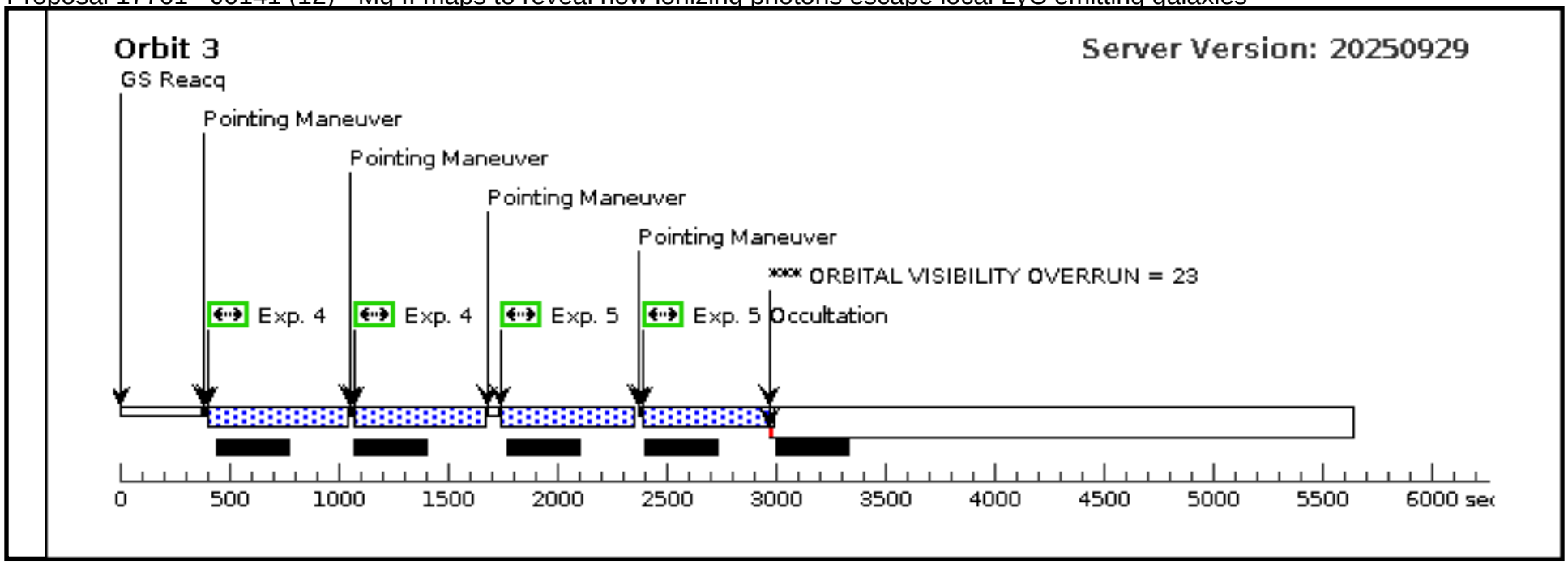
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(5) J0141	ACS/WFC, ACCUM, WFC1-MRAMP	FR388N 3870 A			Pattern 1, Exps 1-1 in J0141 (12) (1)	1000 Secs X 2 (1968 Secs)	
								[==>492.0 Secs (Pattern 1, Copy 1)] *[==>492.0 Secs (Pattern 1, Copy 2)]* *[==>492.0 Secs (Pattern 2, Copy 1)]* *[==>492.0 Secs (Pattern 2, Copy 2)]*	***[1]***
2		(5) J0141	ACS/WFC, ACCUM, WFC1-MRAMP	FR459M 4200 A			Pattern 1, Exps 2-2 in J0141 (12) (1)	1000 Secs (1194 Secs)	
								[==>580.0 Secs (Pattern 1)] *[==>614.0 Secs (Pattern 2)]*	***[2]***
3		(5) J0141	ACS/WFC, ACCUM, WFC1-IRAMP	FR716N 6921 A			Pattern 1, Exps 3-3 in J0141 (12) (1)	340 Secs (680 Secs)	
								[==>(Pattern 1)] *[==>(Pattern 2)]*	***[2]***
4		(5) J0141	ACS/WFC, ACCUM, WFC1-IRAMP	FR647M 7330 A			Pattern 1, Exps 4-4 in J0141 (12) (1)	500 Secs (944 Secs)	
								[==>472.0 Secs (Pattern 1)] *[==>472.0 Secs (Pattern 2)]*	***[3]***
5		(5) J0141	ACS/WFC, ACCUM, WFC1-MRAMP	FR505N 5150 A			Pattern 1, Exps 5-5 in J0141 (12) (1)	500 Secs (944 Secs)	
								[==>472.0 Secs (Pattern 1)] *[==>472.0 Secs (Pattern 2)]*	***[3]***

Orbit Structure




Orbit 2
Server Version: 20250929
GS Reacq
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Exp. 3
Pointing Maneuver
Exp. 3
Occultation
Exp. 2
Exp. 2
**** ORBITAL VISIBILITY OVERRUN = 26
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 3
Server Version: 20250929
GS Reacq
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
*** ORBITAL VISIBILITY OVERRUN = 23
Exp. 4
Exp. 4
Exp. 5
Exp. 5
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

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Orbit Structure