18046 - Testing the Mass Threshold of Reionization-Quenching with Isolated Dwarf Galaxy Hedgehog

Cycle: 33, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

Name	*Institution*
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Prof. Jenny Emma Greene (CoI) (AdminUSPI)	Princeton University
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Ms. Xiaojing Lin (CoI)	Tsinghua University

VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) HEDGEHOG	WFC3/UVIS	2	08-Sep-2025 12:00:14.0	yes
02	(1) HEDGEHOG	WFC3/UVIS	2	08-Sep-2025 12:00:14.0	yes
03	(1) HEDGEHOG	WFC3/UVIS	2	08-Sep-2025 12:00:15.0	yes
04	(1) HEDGEHOG	WFC3/UVIS	2	08-Sep-2025 12:00:15.0	yes
05	(1) HEDGEHOG	WFC3/UVIS	2	08-Sep-2025 12:00:16.0	yes
06	(1) HEDGEHOG	WFC3/UVIS	2	08-Sep-2025 12:00:16.0	yes
07	(1) HEDGEHOG	WFC3/UVIS	2	08-Sep-2025 12:00:16.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
08	(1) HEDGEHOG	WFC3/UVIS	2	08-Sep-2025 12:00:17.0	yes
09	(1) HEDGEHOG	WFC3/UVIS	2	08-Sep-2025 12:00:17.0	yes
10	(1) HEDGEHOG	WFC3/UVIS	2	08-Sep-2025 12:00:18.0	yes
11	(1) HEDGEHOG	WFC3/UVIS	2	08-Sep-2025 12:00:18.0	yes
12	(1) HEDGEHOG	WFC3/UVIS	2	08-Sep-2025 12:00:18.0	yes
13	(1) HEDGEHOG	WFC3/UVIS	2	08-Sep-2025 12:00:19.0	yes
14	(1) HEDGEHOG	WFC3/UVIS	2	08-Sep-2025 12:00:19.0	yes
15	(1) HEDGEHOG	WFC3/UVIS	2	08-Sep-2025 12:00:20.0	yes

30 Total Orbits Used

ABSTRACT

Cosmic reionization has long been thought to quench star formation in low-mass dwarf galaxies. However, no direct observational evidence exists beyond satellites of the Local Group. The mass range where reionization quenching is dominant remains elusive. We request HST WFC3/UVIS imaging in F606W+F814W for Hedgehog, a newly discovered isolated quiescent dwarf galaxy at 2.4 Mpc. Having no neighbors within 1 Mpc, Hedgehog's evolution was very likely unaffected by environmental effects, making it preserve the cleanest possible signature of reionization quenching. Compared with other ultra-faint dwarfs, Hedgehog's relatively high stellar mass (6x10^5 Msun) makes it particularly valuable for understanding the mass threshold of reionization quenching. A deep color-magnitude diagram analysis will reveal its ancient star formation history by resolving the horizontal branch, a key feature of the oldest, most metal-poor stellar populations.

Our observations will provide a decisive test of reionization's impact on galaxy evolution at the critical mass threshold (M* ~ 10^5-10^6 Msun). Alternatively, if Hedgehog is a backsplash satellite from the Centaurus~A group, it would be the most distant backsplash galaxy ever confirmed, revealing the dynamical history of the nearby Centaurus A group and offering tests for backsplash models.

OBSERVING DESCRIPTION

The goal of this proposal is to measure the star formation history (SFH) of a newly discovered dwarf galaxy named "Hedgehog" from a deep color-magnitude diagram (CMD) of stars within it. With the total allocated 30 orbits, we will definitively distinguish the two quenching mechanisms -- reionization quenching and backsplash quenching -- for this isolated quiescent dwarf galaxy.

We request HST WFC3/UVIS imaging in F606W and F814W using the UVIS2 aperture. Each visit has two orbits, and each orbit is split between F606W and F814W exposures (with no CR-splits). Small dithers are performed between orbits using POS-TARG following a 4-point DITHER-BOX pattern.

We do not add any constraints on the orientation. The bright star near the target will be saturated, but the diffraction spikes will have a length of ~10 arcsec, shorter than the angular size of the target galaxy (30 arcsec) and thus would not significantly affect the analysis.

Visit

Proposal 18046, Visit 01, implementation

Mon Sep 08 16:00:20 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: (none)

Fixed Targets

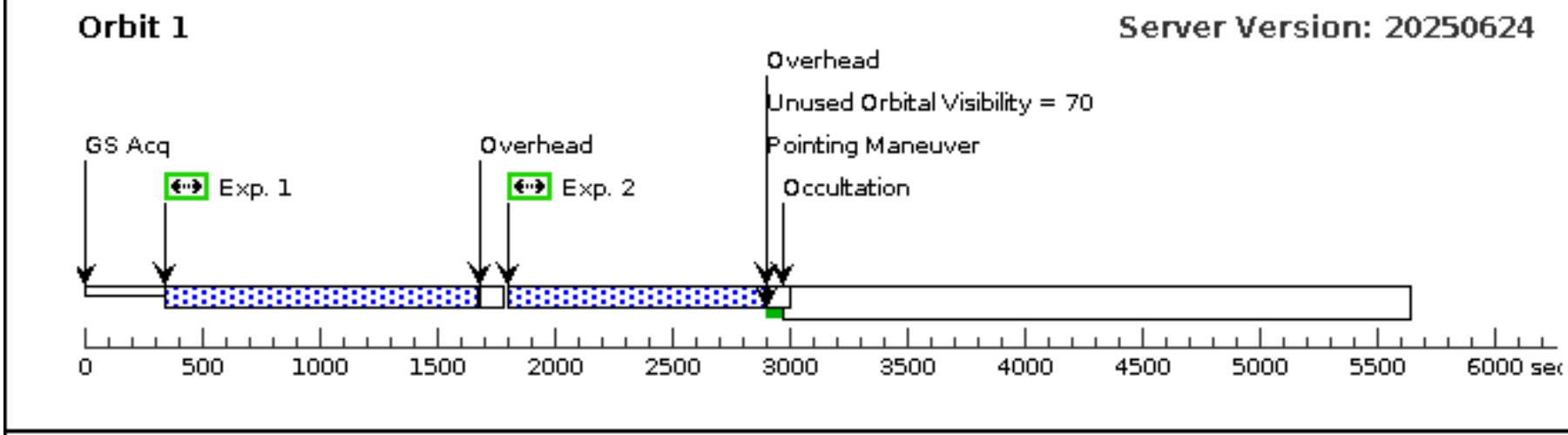
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HEDGEHOG	RA: 13 22 47.0857 (200.6961904d) Dec: -20 53 53.72 (-20.89826d) Equinox: J2000	Radial Velocity: 280 km/sec	V=17.06+/-0.06	Reference Frame: ICRS

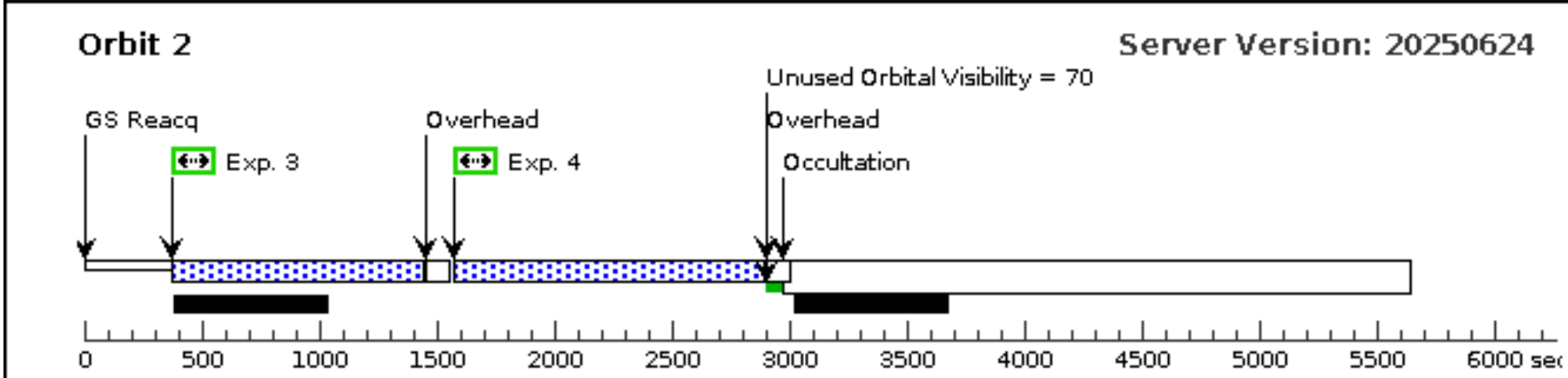
Comments:
Category=GALAXY
Description=[DWARF ELLIPTICAL, LSB]
Extended=YES

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	POS TARG 0,0		1300 Secs (1300 Secs)	
								[==>]	***[1]***
2	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	SAME POS AS 1		1070 Secs (1070 Secs)	
								[==>]	***[1]***
3	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG 0.158,0.070		1070 Secs (1070 Secs)	
								[==>]	***[2]***
4	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	SAME POS AS 3		1300 Secs (1300 Secs)	
								[==>]	***[2]***

Orbit Structure





Visit

Proposal 18046, Visit 02, implementation Mon Sep 08 16:00:20 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HEDGEHOG	RA: 13 22 47.0857 (200.6961904d) Dec: -20 53 53.72 (-20.89826d) Equinox: J2000	Radial Velocity: 280 km/sec	V=17.06+/-0.06	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[DWARF ELLIPTICAL, LSB]
Extended=YES

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	POS TARG 0.099,0.165		1300 Secs (1300 Secs)	
								[==>]	***[1]***
2	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	SAME POS AS 1		1070 Secs (1070 Secs)	
								[==>]	***[1]***
3	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -0.060,0.095		1070 Secs (1070 Secs)	
								[==>]	***[2]***
4	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	SAME POS AS 3		1300 Secs (1300 Secs)	
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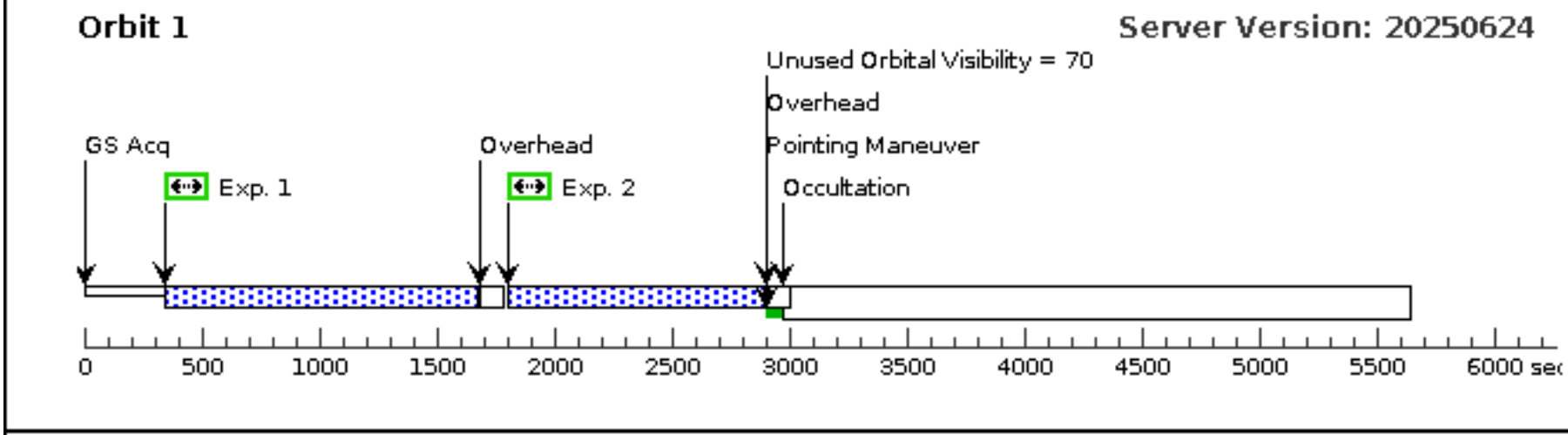
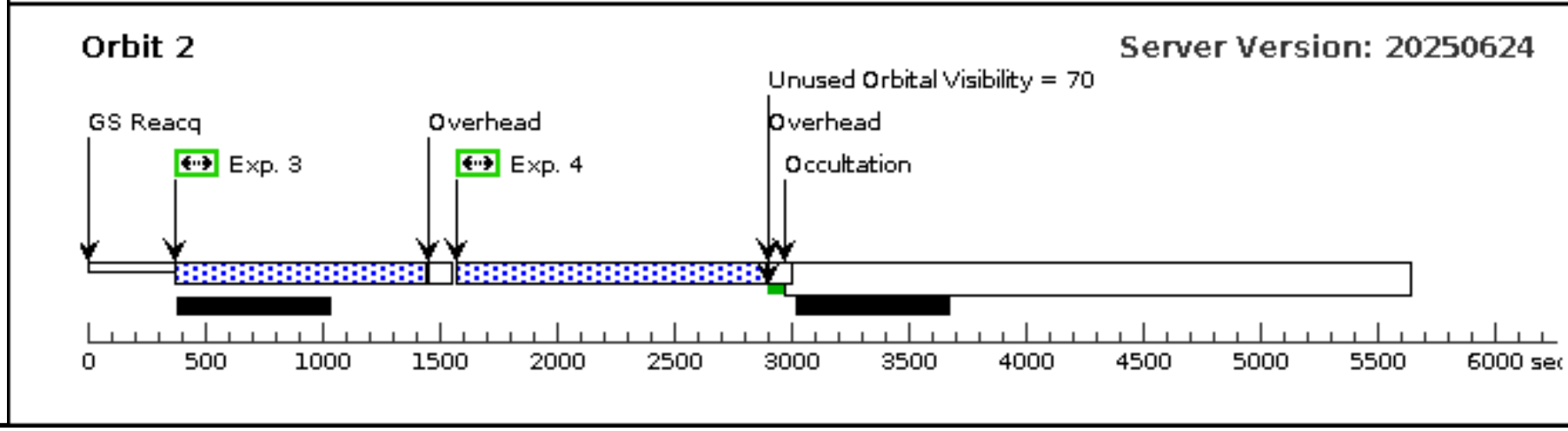
Orbit Structure





Visit

Proposal 18046, Visit 03, implementation

Mon Sep 08 16:00:20 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HEDGEHOG	RA: 13 22 47.0857 (200.6961904d) Dec: -20 53 53.72 (-20.89826d) Equinox: J2000	Radial Velocity: 280 km/sec	V=17.06+/-0.06	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[DWARF ELLIPTICAL, LSB]
Extended=YES

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	POS TARG 0,0		1300 Secs (1300 Secs)	
								[==>]	***[1]***
2	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	SAME POS AS 1		1070 Secs (1070 Secs)	
								[==>]	***[1]***
3	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG 0.158,0.070		1070 Secs (1070 Secs)	
								[==>]	***[2]***
4	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	SAME POS AS 3		1300 Secs (1300 Secs)	
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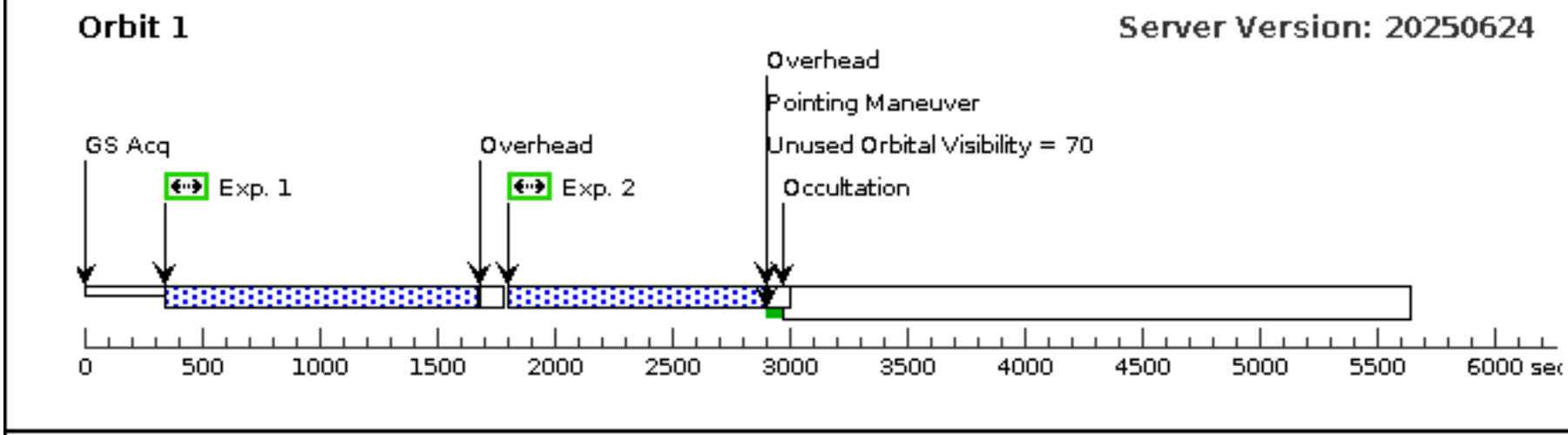
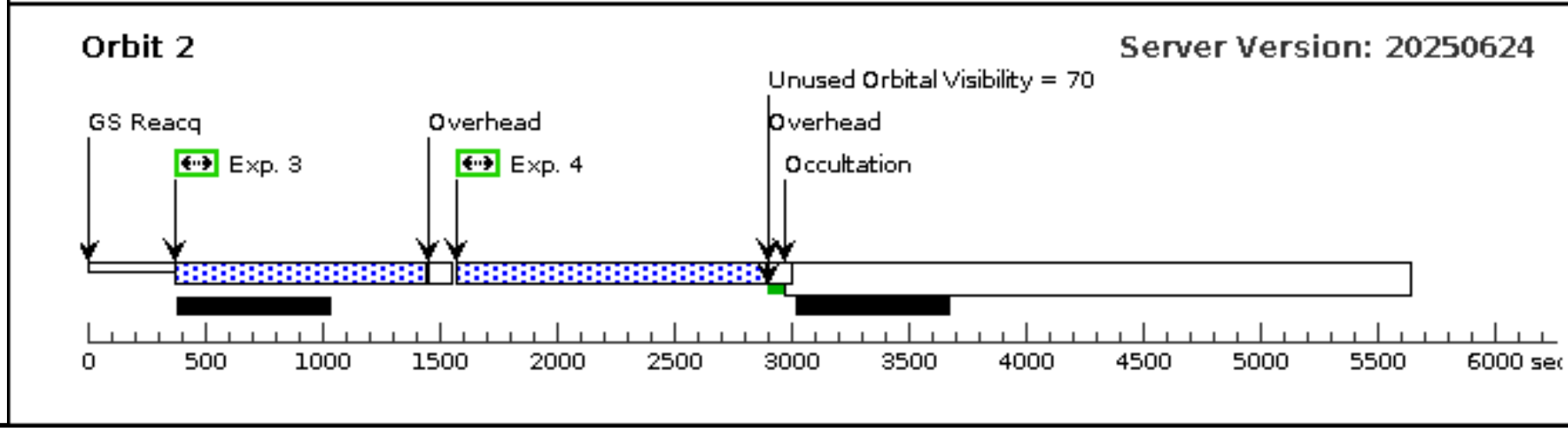
Orbit Structure





Visit

Proposal 18046, Visit 04, implementation Mon Sep 08 16:00:20 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: (none)

Fixed Targets

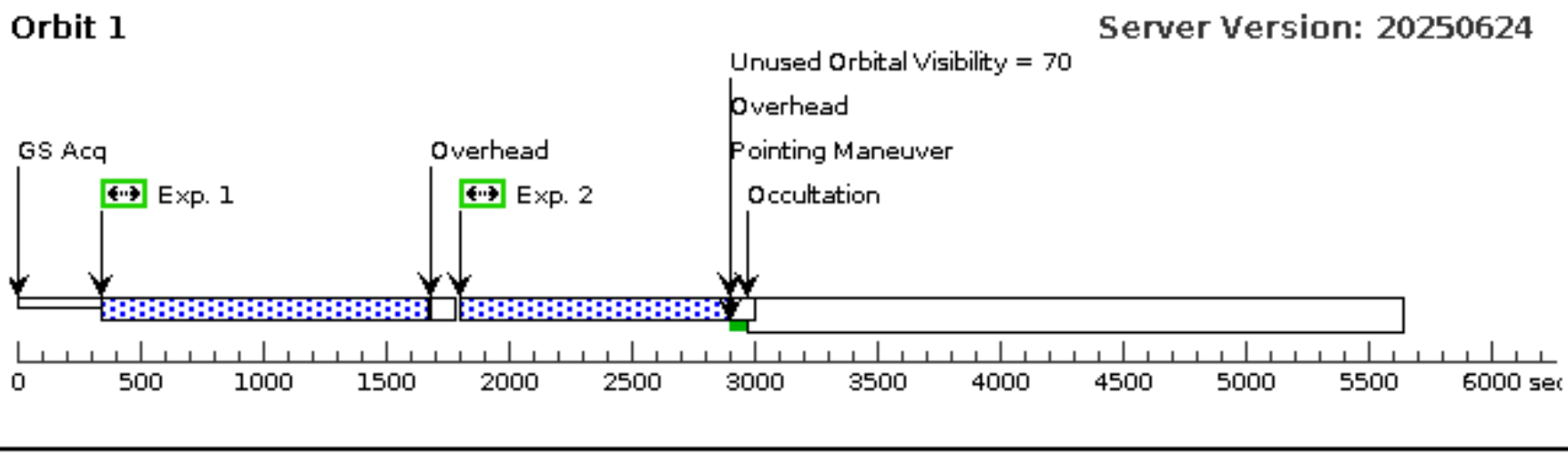
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HEDGEHOG	RA: 13 22 47.0857 (200.6961904d) Dec: -20 53 53.72 (-20.89826d) Equinox: J2000	Radial Velocity: 280 km/sec	V=17.06+/-0.06	Reference Frame: ICRS

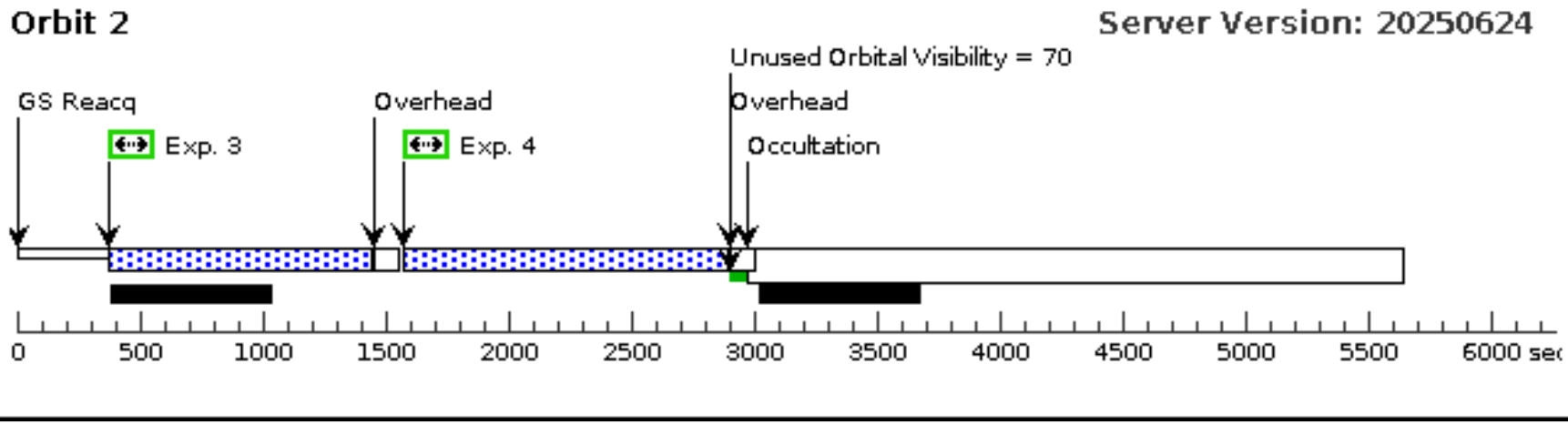
Comments:
Category=GALAXY
Description=[DWARF ELLIPTICAL, LSB]
Extended=YES

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	POS TARG 0.099,0.165		1300 Secs (1300 Secs) *[==>]*	 ***[1]***
2	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	SAME POS AS 1		1070 Secs (1070 Secs) *[==>]*	 ***[1]***
3	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -0.060,0.095		1070 Secs (1070 Secs) *[==>]*	 ***[2]***
4	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	SAME POS AS 3		1300 Secs (1300 Secs) *[==>]*	 ***[2]***

Orbit Structure





Visit

Proposal 18046, Visit 05, implementation Mon Sep 08 16:00:20 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: (none)

Fixed Targets

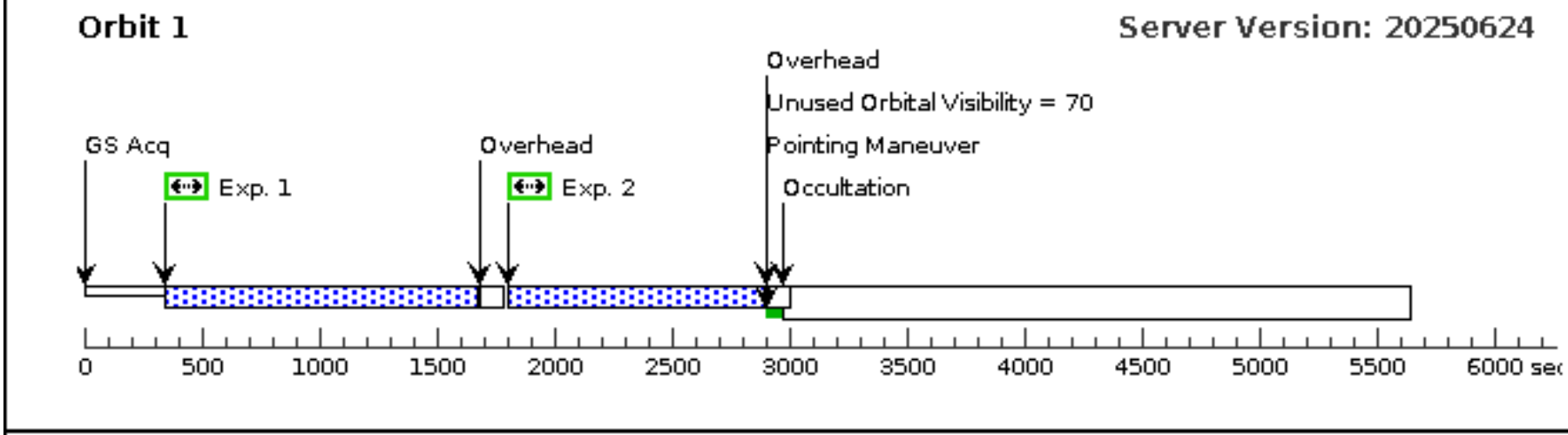
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HEDGEHOG	RA: 13 22 47.0857 (200.6961904d) Dec: -20 53 53.72 (-20.89826d) Equinox: J2000	Radial Velocity: 280 km/sec	V=17.06+/-0.06	Reference Frame: ICRS

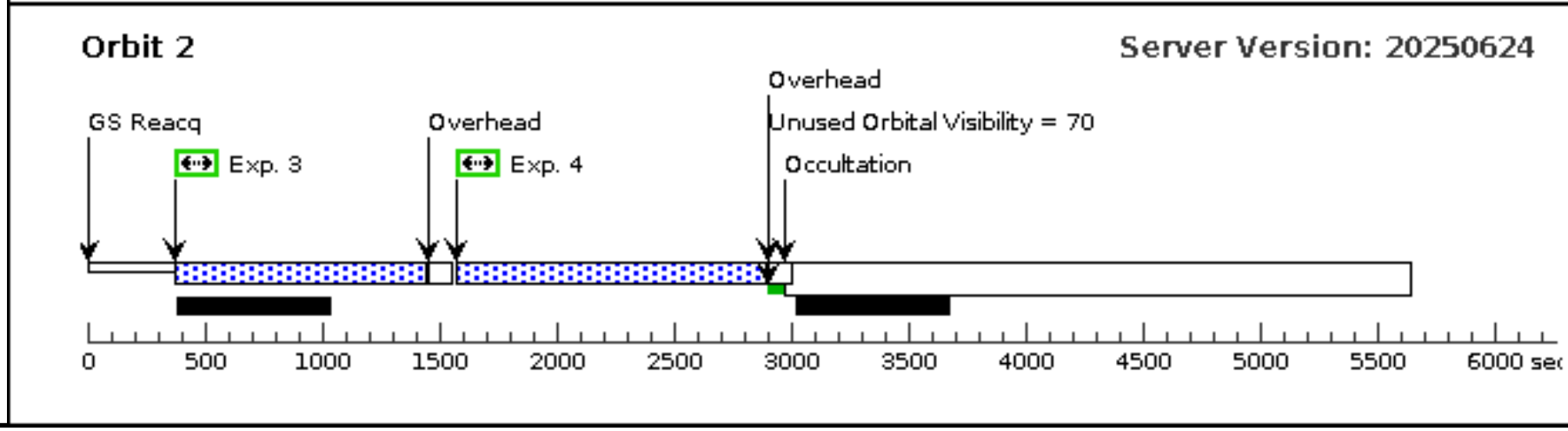
Comments:
Category=GALAXY
Description=[DWARF ELLIPTICAL, LSB]
Extended=YES

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	POS TARG 0,0		1300 Secs (1300 Secs)	
								[==>]	***[1]***
2	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	SAME POS AS 1		1070 Secs (1070 Secs)	
								[==>]	***[1]***
3	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG 0.158,0.070		1070 Secs (1070 Secs)	
								[==>]	***[2]***
4	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	SAME POS AS 3		1300 Secs (1300 Secs)	
								[==>]	***[2]***

Orbit Structure





Visit

Proposal 18046, Visit 06, implementation Mon Sep 08 16:00:20 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: (none)

Fixed Targets

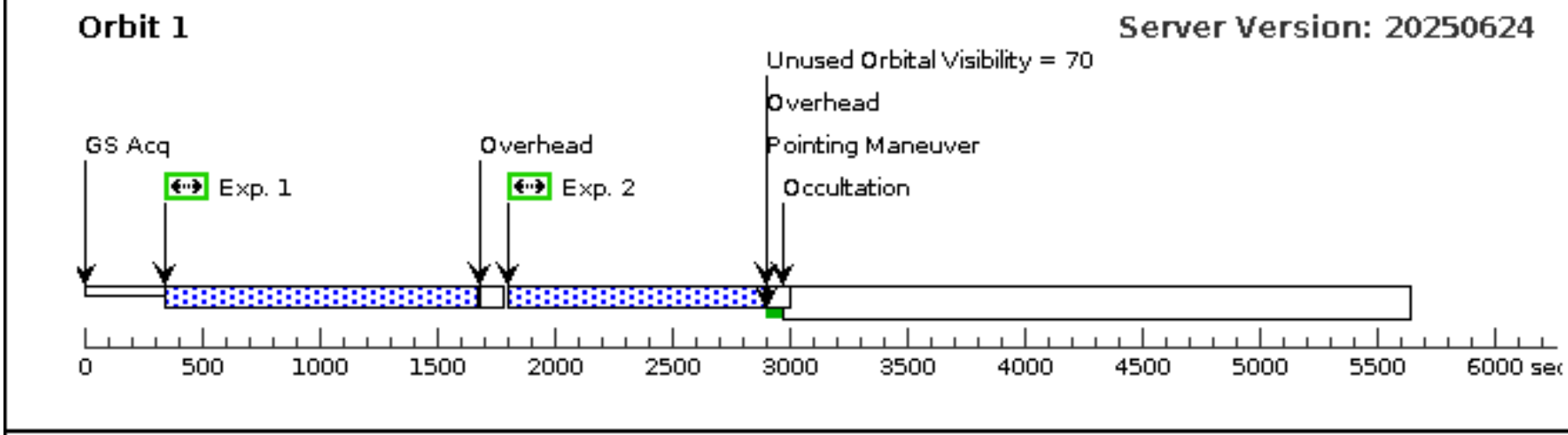
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HEDGEHOG	RA: 13 22 47.0857 (200.6961904d) Dec: -20 53 53.72 (-20.89826d) Equinox: J2000	Radial Velocity: 280 km/sec	V=17.06+/-0.06	Reference Frame: ICRS

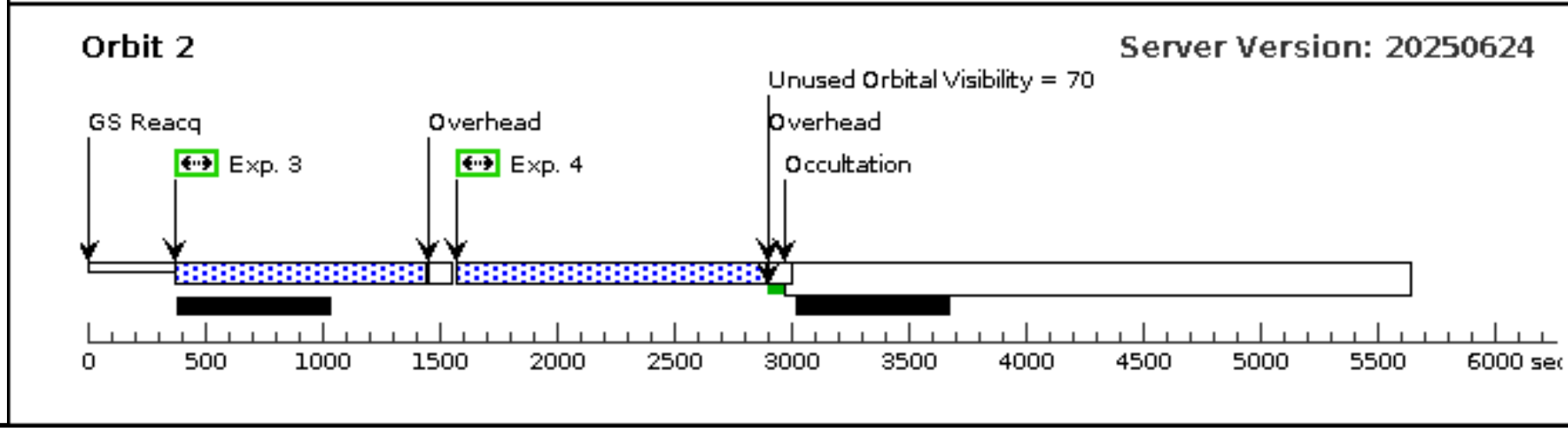
Comments:
Category=GALAXY
Description=[DWARF ELLIPTICAL, LSB]
Extended=YES

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	POS TARG 0.099,0.165		1300 Secs (1300 Secs) *[==>]*	 ***[1]***
2	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	SAME POS AS 1		1070 Secs (1070 Secs) *[==>]*	 ***[1]***
3	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -0.060,0.095		1070 Secs (1070 Secs) *[==>]*	 ***[2]***
4	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	SAME POS AS 3		1300 Secs (1300 Secs) *[==>]*	 ***[2]***

Orbit Structure





Visit

Proposal 18046, Visit 07, implementation Mon Sep 08 16:00:20 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: (none)

Fixed Targets

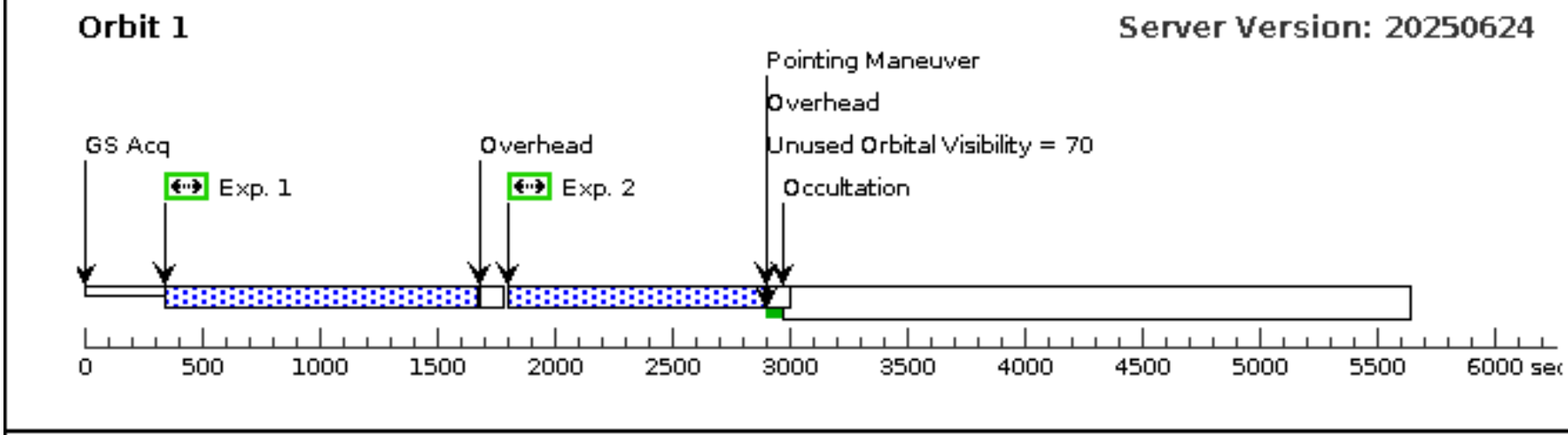
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HEDGEHOG	RA: 13 22 47.0857 (200.6961904d) Dec: -20 53 53.72 (-20.89826d) Equinox: J2000	Radial Velocity: 280 km/sec	V=17.06+/-0.06	Reference Frame: ICRS

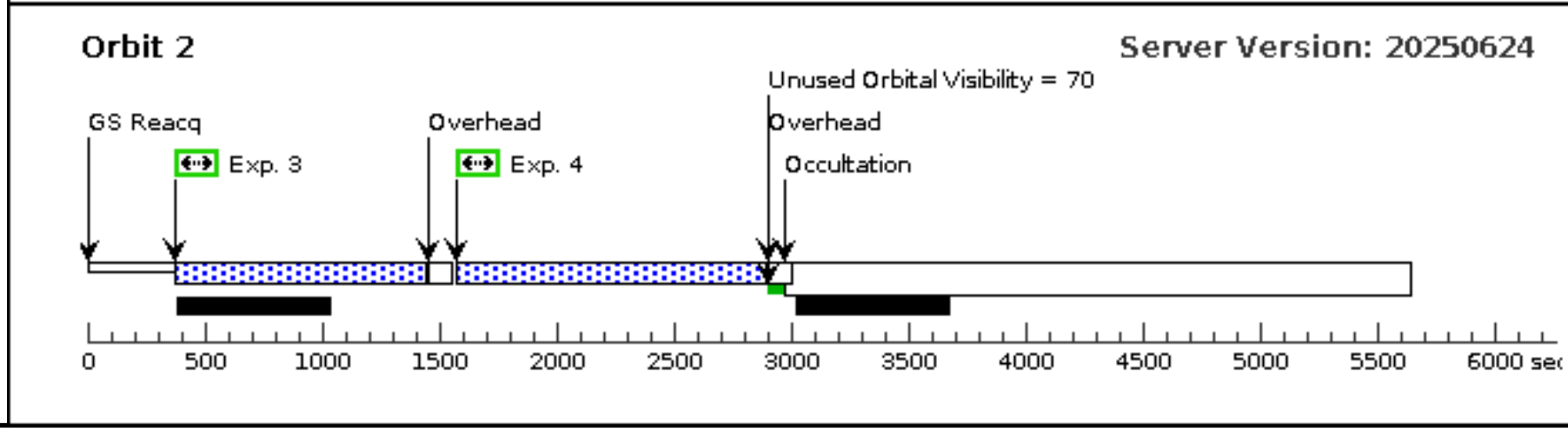
Comments:
Category=GALAXY
Description=[DWARF ELLIPTICAL, LSB]
Extended=YES

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	POS TARG 0,0		1300 Secs (1300 Secs)	
								[==>]	***[1]***
2	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	SAME POS AS 1		1070 Secs (1070 Secs)	
								[==>]	***[1]***
3	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG 0.158,0.070		1070 Secs (1070 Secs)	
								[==>]	***[2]***
4	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	SAME POS AS 3		1300 Secs (1300 Secs)	
								[==>]	***[2]***

Orbit Structure





Visit

Proposal 18046, Visit 08, implementation Mon Sep 08 16:00:20 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HEDGEHOG	RA: 13 22 47.0857 (200.6961904d) Dec: -20 53 53.72 (-20.89826d) Equinox: J2000	Radial Velocity: 280 km/sec	V=17.06+/-0.06	Reference Frame: ICRS

Comments:
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Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	POS TARG 0.099,0.165		1300 Secs (1300 Secs)	
								[==>]	***[1]***
2	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	SAME POS AS 1		1070 Secs (1070 Secs)	
								[==>]	***[1]***
3	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -0.060,0.095		1070 Secs (1070 Secs)	
								[==>]	***[2]***
4	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	SAME POS AS 3		1300 Secs (1300 Secs)	
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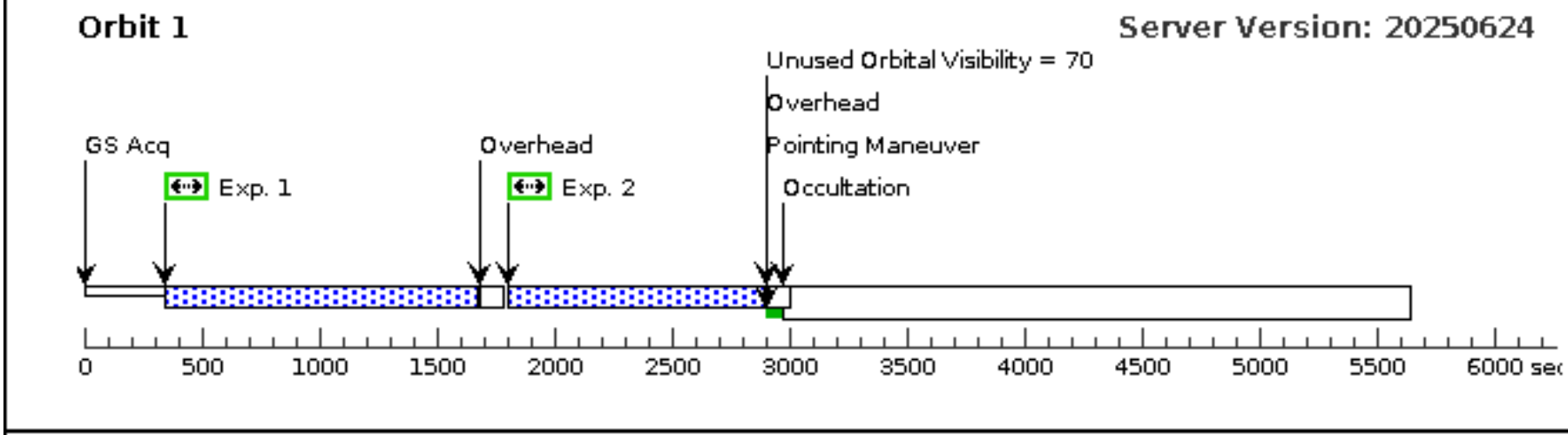
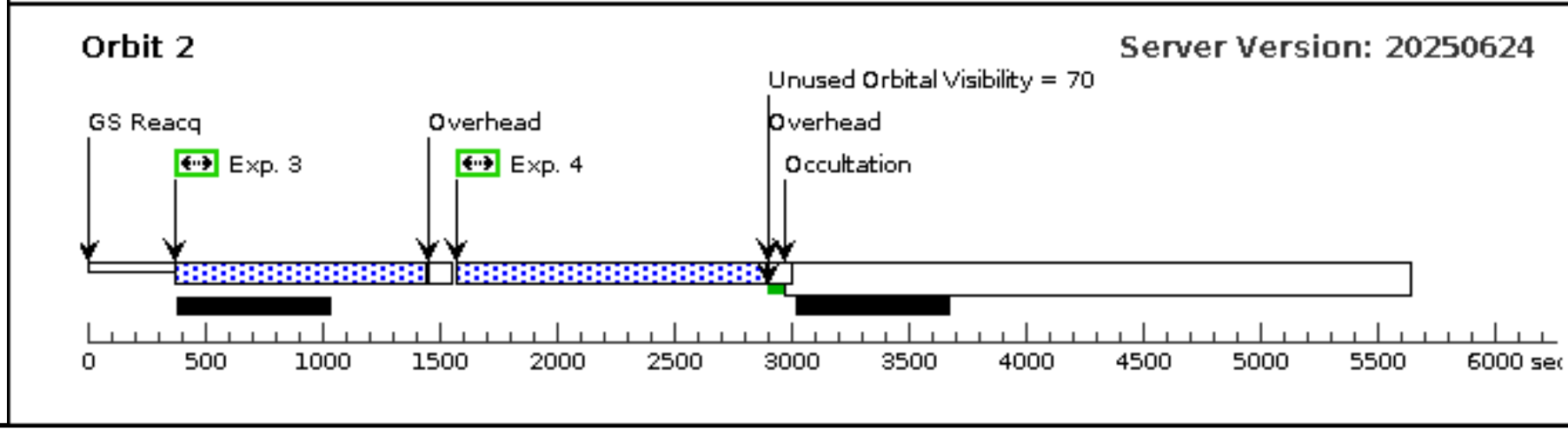
Orbit Structure





Visit

Proposal 18046, Visit 09, implementation Mon Sep 08 16:00:20 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HEDGEHOG	RA: 13 22 47.0857 (200.6961904d) Dec: -20 53 53.72 (-20.89826d) Equinox: J2000	Radial Velocity: 280 km/sec	V=17.06+/-0.06	Reference Frame: ICRS

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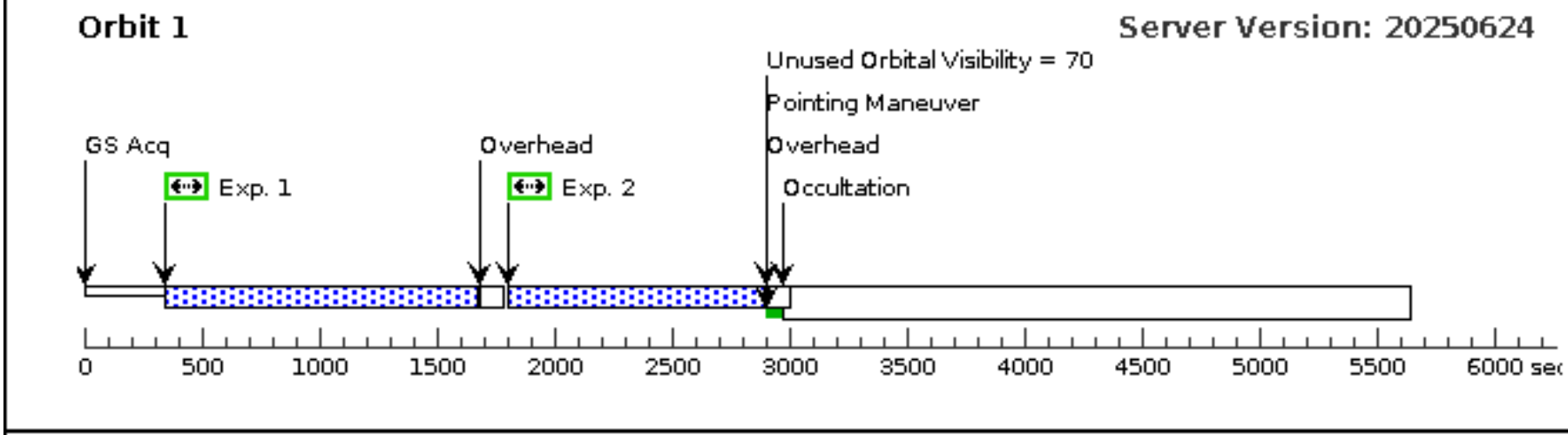
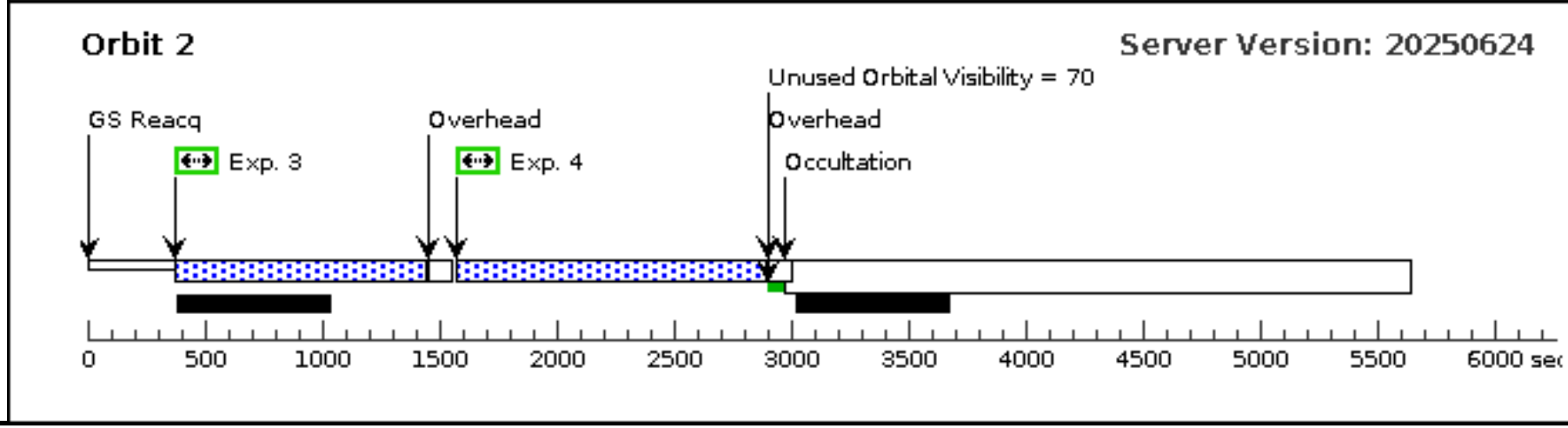
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	POS TARG 0,0		1300 Secs (1300 Secs)	
								[==>]	***[1]***
2	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	SAME POS AS 1		1070 Secs (1070 Secs)	
								[==>]	***[1]***
3	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG 0.158,0.070		1070 Secs (1070 Secs)	
								[==>]	***[2]***
4	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	SAME POS AS 3		1300 Secs (1300 Secs)	
								[==>]	***[2]***

Orbit Structure





Visit

Proposal 18046, Visit 10, implementation Mon Sep 08 16:00:20 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: (none)

Fixed Targets

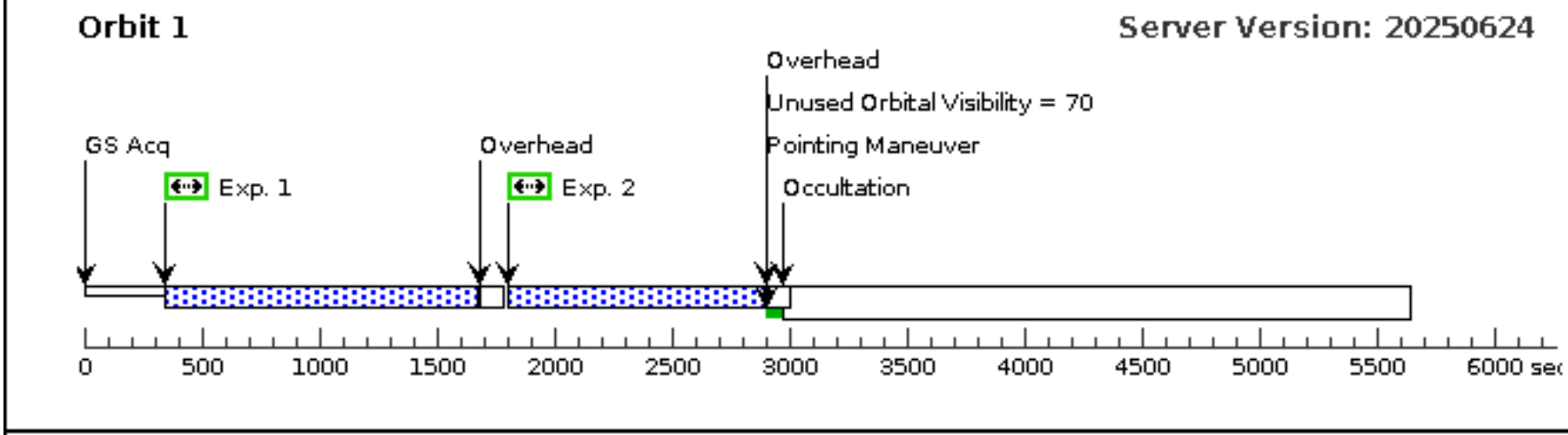
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HEDGEHOG	RA: 13 22 47.0857 (200.6961904d) Dec: -20 53 53.72 (-20.89826d) Equinox: J2000	Radial Velocity: 280 km/sec	V=17.06+/-0.06	Reference Frame: ICRS

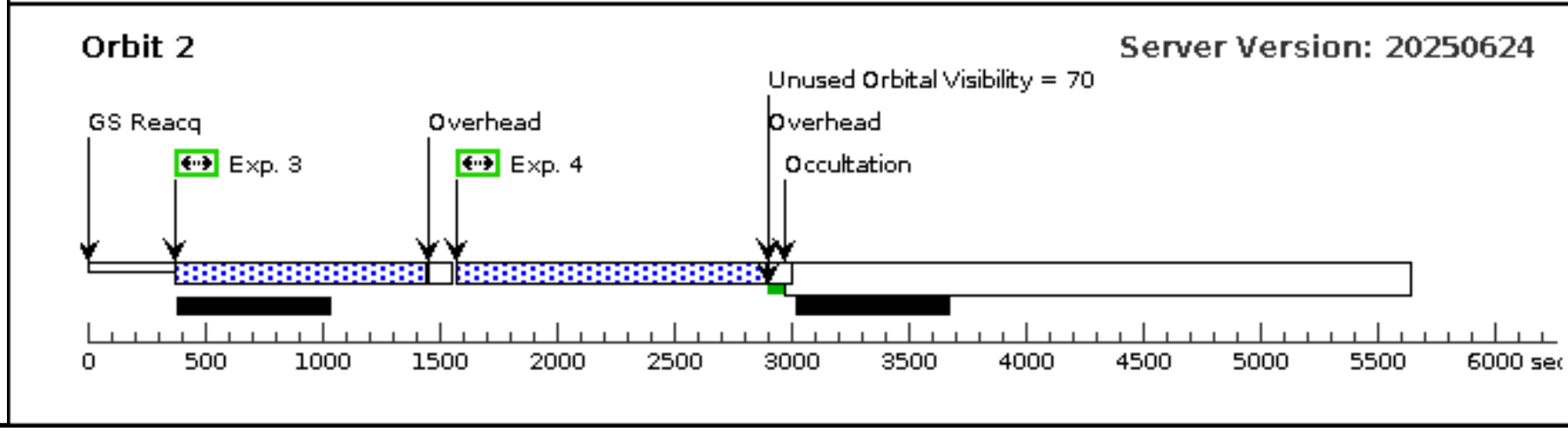
Comments:
Category=GALAXY
Description=[DWARF ELLIPTICAL, LSB]
Extended=YES

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	POS TARG 0.099,0.165		1300 Secs (1300 Secs) *[==>]*	 ***[1]***
2	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	SAME POS AS 1		1070 Secs (1070 Secs) *[==>]*	 ***[1]***
3	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -0.060,0.095		1070 Secs (1070 Secs) *[==>]*	 ***[2]***
4	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	SAME POS AS 3		1300 Secs (1300 Secs) *[==>]*	 ***[2]***

Orbit Structure





Visit

Proposal 18046, Visit 11, implementation Mon Sep 08 16:00:21 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: (none)

Fixed Targets

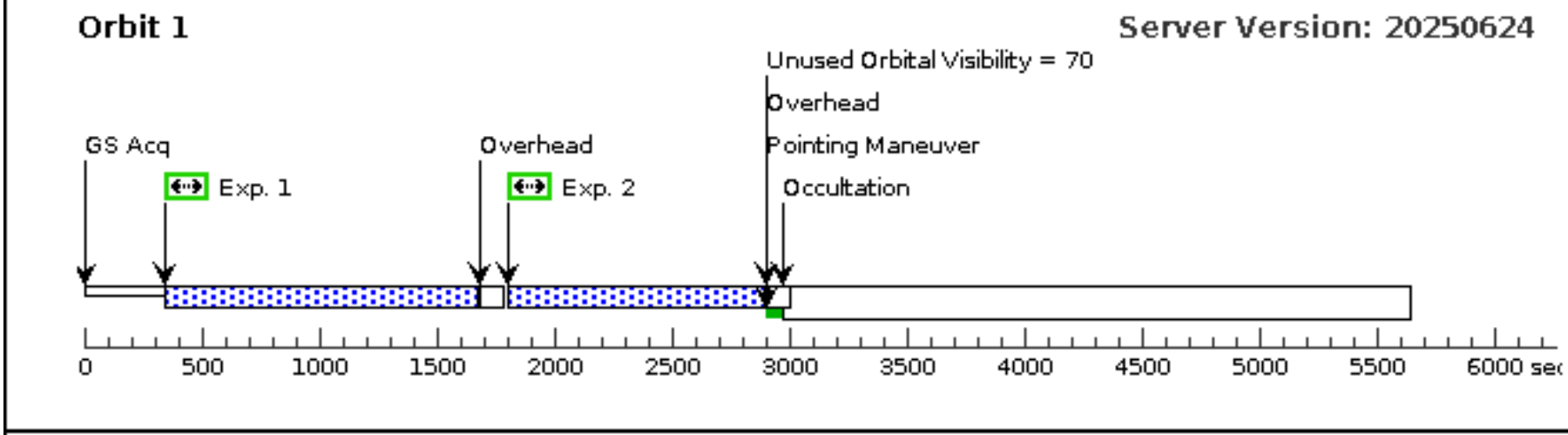
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HEDGEHOG	RA: 13 22 47.0857 (200.6961904d) Dec: -20 53 53.72 (-20.89826d) Equinox: J2000	Radial Velocity: 280 km/sec	V=17.06+/-0.06	Reference Frame: ICRS

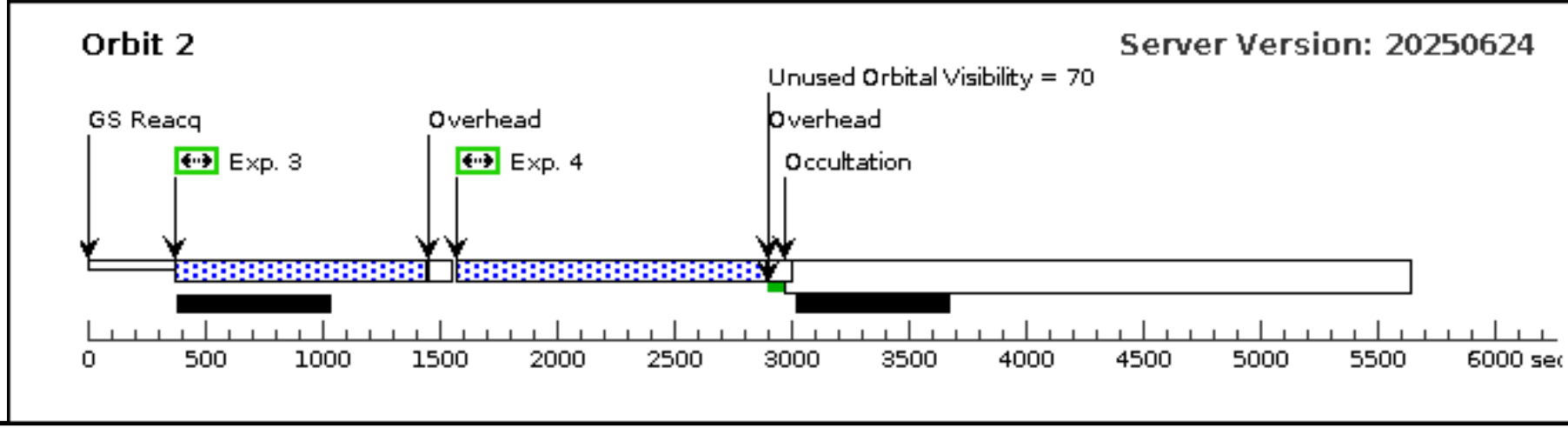
Comments:
Category=GALAXY
Description=[DWARF ELLIPTICAL, LSB]
Extended=YES

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	POS TARG 0,0		1300 Secs (1300 Secs)	
								[==>]	***[1]***
2	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	SAME POS AS 1		1070 Secs (1070 Secs)	
								[==>]	***[1]***
3	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG 0.158,0.070		1070 Secs (1070 Secs)	
								[==>]	***[2]***
4	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	SAME POS AS 3		1300 Secs (1300 Secs)	
								[==>]	***[2]***

Orbit Structure





Visit

Proposal 18046, Visit 12, implementation Mon Sep 08 16:00:21 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: (none)

Fixed Targets

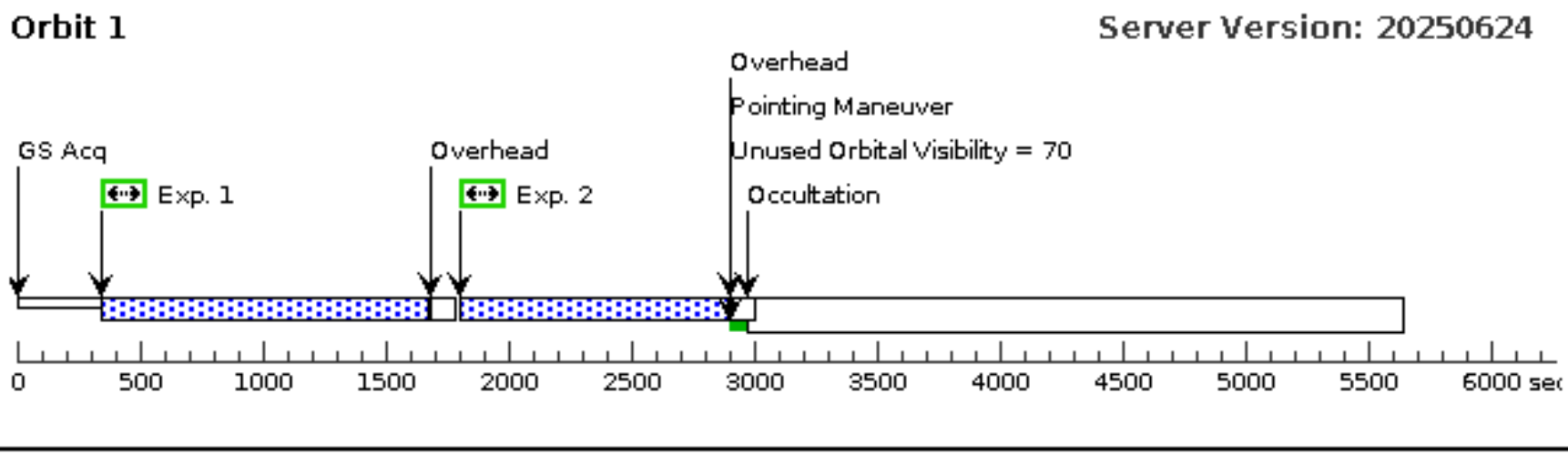
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HEDGEHOG	RA: 13 22 47.0857 (200.6961904d) Dec: -20 53 53.72 (-20.89826d) Equinox: J2000	Radial Velocity: 280 km/sec	V=17.06+/-0.06	Reference Frame: ICRS

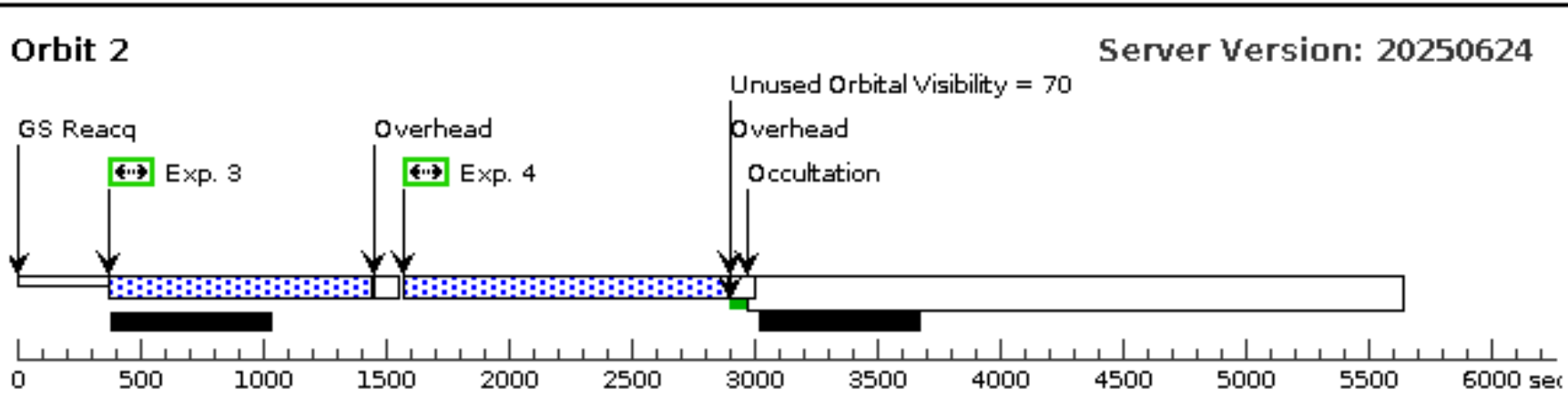
Comments:
Category=GALAXY
Description=[DWARF ELLIPTICAL, LSB]
Extended=YES

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	POS TARG 0.099,0.165		1300 Secs (1300 Secs) *[==>]*	 ***[1]***
2	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	SAME POS AS 1		1070 Secs (1070 Secs) *[==>]*	 ***[1]***
3	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -0.060,0.095		1070 Secs (1070 Secs) *[==>]*	 ***[2]***
4	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	SAME POS AS 3		1300 Secs (1300 Secs) *[==>]*	 ***[2]***

Orbit Structure





Visit

Proposal 18046, Visit 13, implementation Mon Sep 08 16:00:21 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: (none)

Fixed Targets

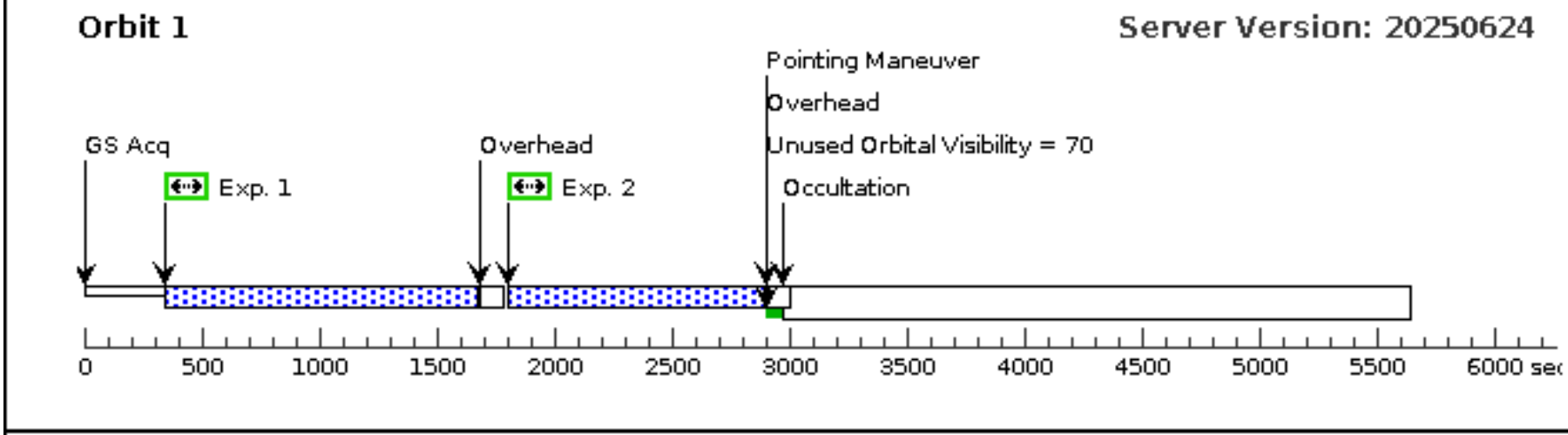
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HEDGEHOG	RA: 13 22 47.0857 (200.6961904d) Dec: -20 53 53.72 (-20.89826d) Equinox: J2000	Radial Velocity: 280 km/sec	V=17.06+/-0.06	Reference Frame: ICRS

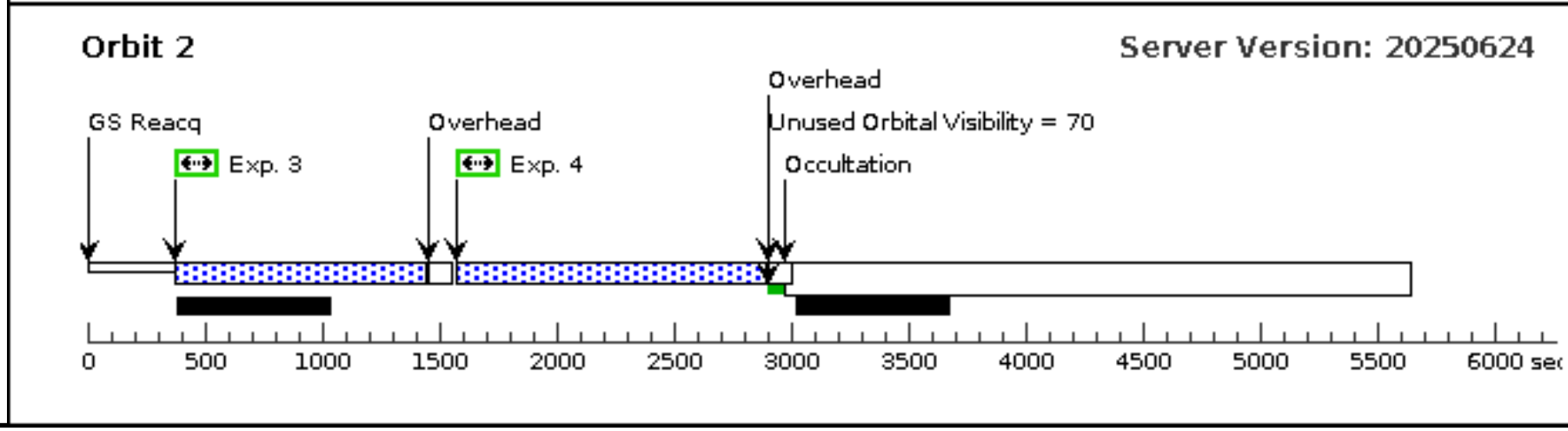
Comments:
Category=GALAXY
Description=[DWARF ELLIPTICAL, LSB]
Extended=YES

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	POS TARG 0,0		1300 Secs (1300 Secs)	
								[==>]	***[1]***
2	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	SAME POS AS 1		1070 Secs (1070 Secs)	
								[==>]	***[1]***
3	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG 0.158,0.070		1070 Secs (1070 Secs)	
								[==>]	***[2]***
4	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	SAME POS AS 3		1300 Secs (1300 Secs)	
								[==>]	***[2]***

Orbit Structure





Visit

Proposal 18046, Visit 14, implementation Mon Sep 08 16:00:21 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: (none)

Fixed Targets

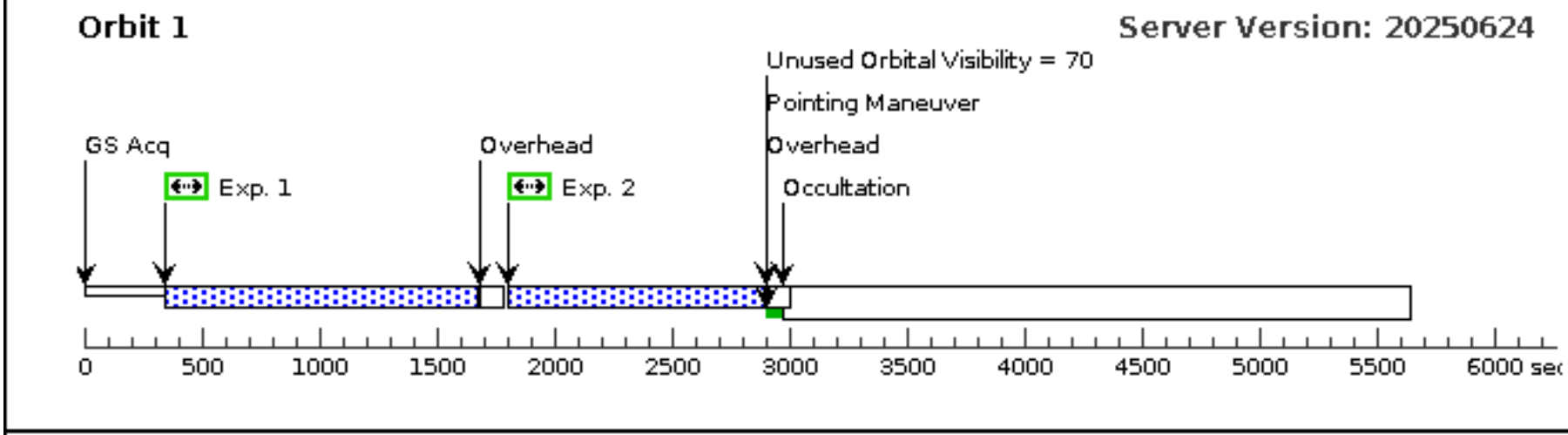
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HEDGEHOG	RA: 13 22 47.0857 (200.6961904d) Dec: -20 53 53.72 (-20.89826d) Equinox: J2000	Radial Velocity: 280 km/sec	V=17.06+/-0.06	Reference Frame: ICRS

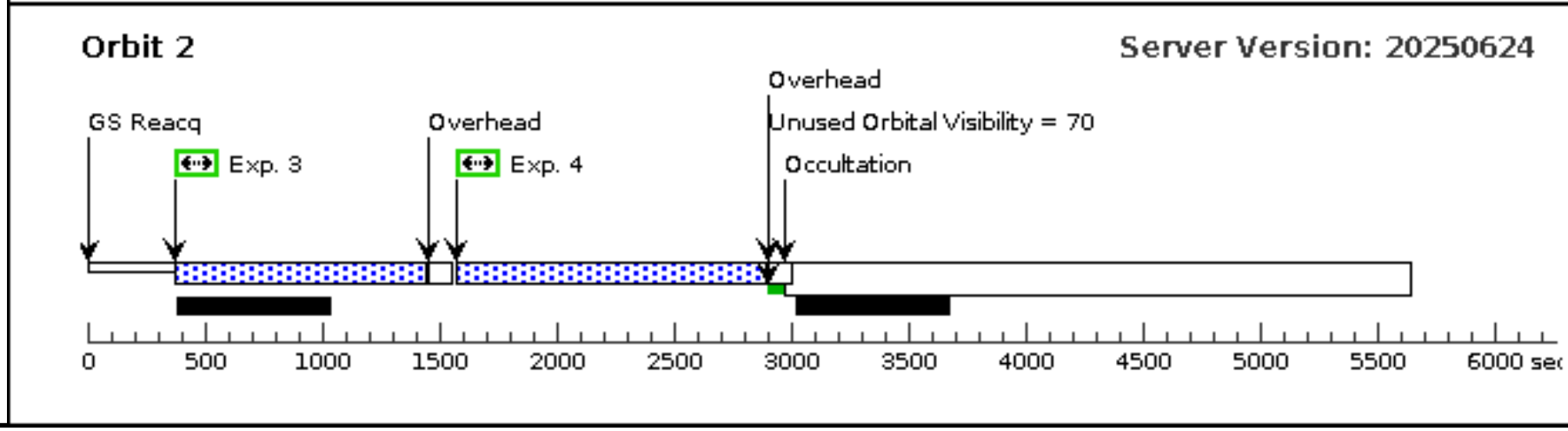
Comments:
Category=GALAXY
Description=[DWARF ELLIPTICAL, LSB]
Extended=YES

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	POS TARG 0.099,0.165		1300 Secs (1300 Secs) *[==>]*	 ***[1]***
2	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	SAME POS AS 1		1070 Secs (1070 Secs) *[==>]*	 ***[1]***
3	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG -0.060,0.095		1070 Secs (1070 Secs) *[==>]*	 ***[2]***
4	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	SAME POS AS 3		1300 Secs (1300 Secs) *[==>]*	 ***[2]***

Orbit Structure





Visit

Proposal 18046, Visit 15, implementation Mon Sep 08 16:00:21 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HEDGEHOG	RA: 13 22 47.0857 (200.6961904d) Dec: -20 53 53.72 (-20.89826d) Equinox: J2000	Radial Velocity: 280 km/sec	V=17.06+/-0.06	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[DWARF ELLIPTICAL, LSB]
Extended=YES

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	POS TARG 0,0		1300 Secs (1300 Secs)	
								[==>]	***[1]***
2	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	SAME POS AS 1		1070 Secs (1070 Secs)	
								[==>]	***[1]***
3	F606W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F606W	CR-SPLIT=NO	POS TARG 0.158,0.070		1070 Secs (1070 Secs)	
								[==>]	***[2]***
4	F814W	(1) HEDGEHOG	WFC3/UVIS, ACCUM, UVIS2	F814W	CR-SPLIT=NO	SAME POS AS 3		1300 Secs (1300 Secs)	
								[==>]	***[2]***

Orbit Structure