18086 - The impact of stellar feedback as revealed by thousands of resolved HII regions in NGC 253

Cycle: 33, Proposal Category: GO

(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	(13) NGC-253-END1	WFC3/UVIS	1	27-Aug-2026 16:00:33.0	yes
02	(14) NGC-253-END12	WFC3/UVIS	1	27-Aug-2026 16:00:33.0	yes
03	(15) NGC-253-END2	WFC3/UVIS	1	27-Aug-2026 16:00:33.0	yes
53	(15) NGC-253-END2	WFC3/UVIS	1	27-Aug-2026 16:00:34.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
04	(16) NGC-253-END22	WFC3/UVIS	1	27-Aug-2026 16:00:34.0	yes
05	(5) NGC-253-V13	WFC3/UVIS	1	27-Aug-2026 16:00:34.0	yes
06	(6) NGC-253-V14	WFC3/UVIS	1	27-Aug-2026 16:00:35.0	yes
07	(7) NGC-253-V15	WFC3/UVIS	1	27-Aug-2026 16:00:35.0	yes
08	(8) NGC-253-V16	WFC3/UVIS	1	27-Aug-2026 16:00:35.0	yes
09	(9) NGC-253-V17	WFC3/UVIS	1	27-Aug-2026 16:00:36.0	yes
10	(10) NGC-253-V18	WFC3/UVIS	1	27-Aug-2026 16:00:36.0	yes
11	(11) NGC-253-V19	WFC3/UVIS	1	27-Aug-2026 16:00:36.0	yes
61	(11) NGC-253-V19	WFC3/UVIS	1	27-Aug-2026 16:00:37.0	yes
12	(12) NGC-253-V20	WFC3/UVIS	1	27-Aug-2026 16:00:37.0	yes
62	(12) NGC-253-V20	WFC3/UVIS	1	27-Aug-2026 16:00:37.0	yes

15 Total Orbits Used

ABSTRACT

We propose for full-disk narrowband H-alpha imaging of NGC253, the nearest southern massive, star-forming spiral galaxy. This imaging is critical to resolve the inner structure of 2,500 HII regions known from full-disk VLT/MUSE spectral mapping and JWST/MIRI imaging. The proposed mapping would also complement awarded HST broadband imaging that captures the stellar populations powering these regions. HII regions are the critical locations of pre-supernova stellar feedback. However, even at the 3.5 Mpc distance to NGC253, ground-based observations cannot resolve the size or morphology of the inner cores where this feedback plays out. Only HST can reach the required ~1 pc resolution. Combining these new HST data with the VLT/MUSE, JWST, and broadband HST mapping, we will (1) measure the size and morphology of each region, (2) relate these to the mass, location, and age of the powering stellar population, and (3) compare the distribution of ionized gas to the observed PAH and dust emission from JWST, linking the feedback to the surrounding ISM and testing models of PAH destruction in ionized gas. This proposal will be the first-ever data set that combines full optical spectral mapping, JWST IR imaging, pc-resolution ionized gas mapping, and resolved UV-optical mapping of the stellar population. This unprecedented data set is crucial for expanding our understanding of HII region physics and stellar feedback, along with the countless possible applications to resolved sources, ISM, stellar, and galactic wind studies.

OBSERVING DESCRIPTION

We have designed a full-disk survey of NGC 253 to observe the F657N band of WFC3/UVIS. This wavelength probes the H-alpha emission across the galaxy, tracing areas of active star formation on the smallest scales of individual HII regions. In combination with the full-galaxy MUSE and JWST imaging, HST H-alpha imaging will reveal the inner structure and chemical composition of HII regions, providing crucial information on the impacts of stellar feedback.

This program has been designed to match the orientation and coverage of the previously awarded observations of NUV-visbile filters (GO 17809).

The mosaic is organized in a 2x8 tile layout with 10% overlap. We require the orientation angle to be 272.0-272.4 deg in order to match the in progress HST observations and existing JWST/MIRI imaging. The matching mosaic layout is crucial for continuum subtraction in the proposed bands. Each exposure will be 430 seconds, allowing us to detect HII regions powered by single massive stars within the disk. We will reach S/N of 10 for luminosities 10^35 erg/s.

Visit

Proposal 18086, Visit 01, completed Thu Aug 27 20:00:38 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ORIENT 272D TO 272.4 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1), (2)

Fixed Targets

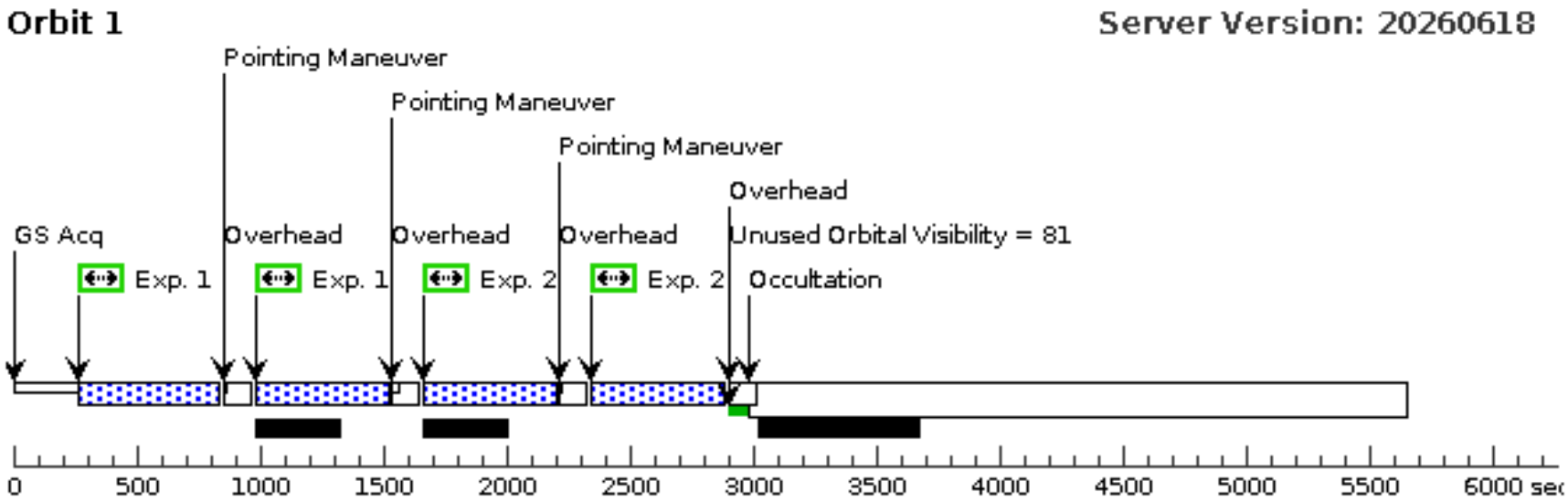
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(13)	NGC-253-END1	RA: 00 47 3.0626 (11.7627608d) Dec: -25 23 4.81 (-25.38467d) Equinox: J2000	Epoch of Position: 2000	V=7	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[SPIRAL ARM]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(13) NGC-253-END 1	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=20	POS TARG null,-19.81	Pattern 2, Exps 1-1 in Visit 01 (2)	544 Secs (1088 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	*[1]*
2		(13) NGC-253-END 1	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=20	POS TARG null,19.81	Pattern 2, Exps 2-2 in Visit 01 (2)	544 Secs (1088 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	*[1]*

Orbit Structure



Visit

Proposal 18086, Visit 02, completed Thu Aug 27 20:00:38 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ORIENT 272D TO 272.4 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1), (2)

Fixed Targets

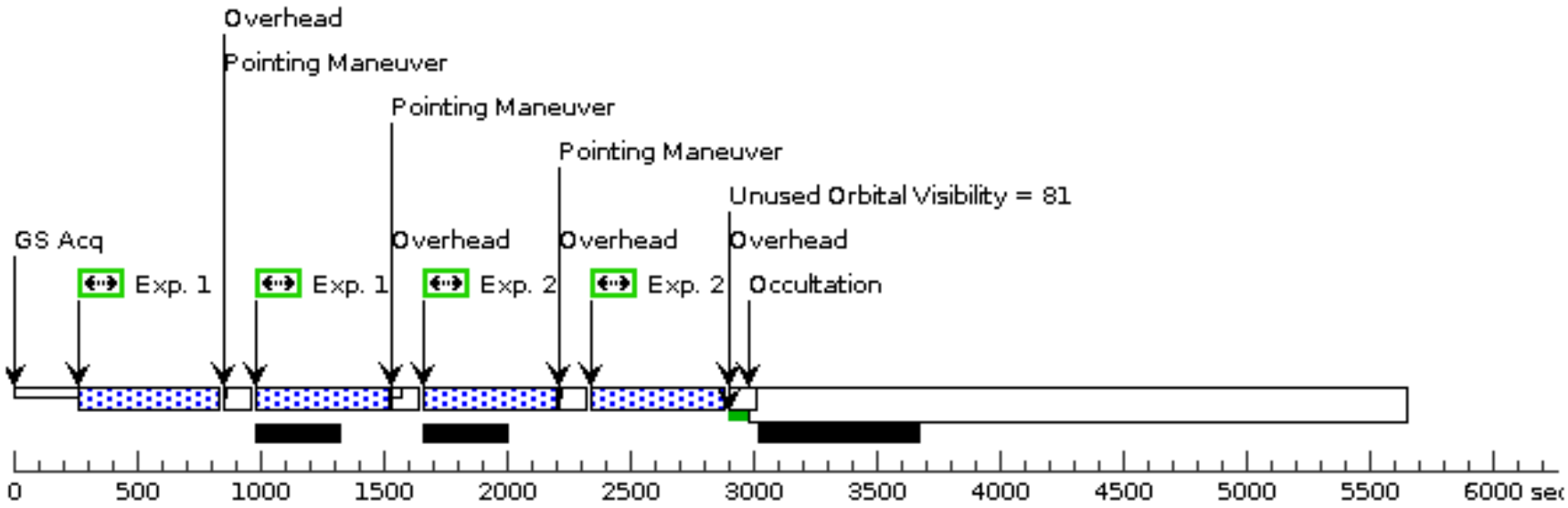
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(14)	NGC-253-END12	RA: 00 47 11.5868 (11.7982783d) Dec: -25 21 30.47 (-25.35846d) Equinox: J2000	Epoch of Position: 2000	V=7	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[SPIRAL ARM]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(14) NGC-253-END 12	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=20	POS TARG null,-29	Pattern 2, Exps 1-1 in Visit 02 (2)	544 Secs (1088 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
2		(14) NGC-253-END 12	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=20	POS TARG null,29	Pattern 2, Exps 2-2 in Visit 02 (2)	544 Secs (1088 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***

Orbit Structure



Visit

Proposal 18086, Visit 03, failed Thu Aug 27 20:00:38 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ORIENT 272D TO 272.4 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1), (2)

Fixed Targets

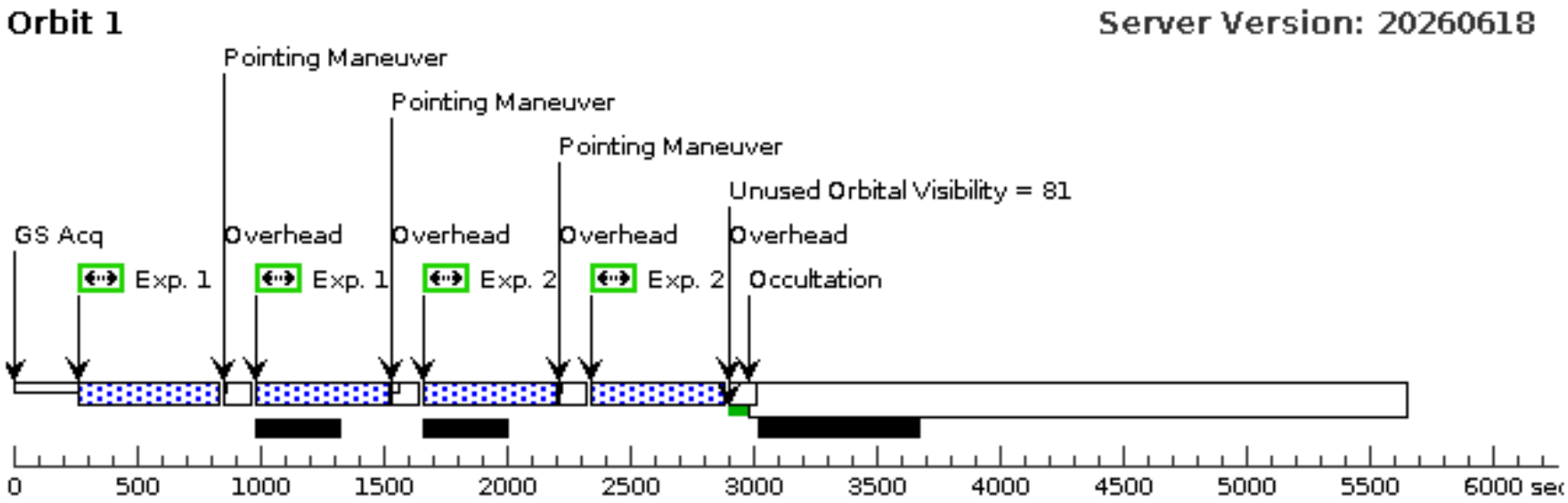
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(15)	NGC-253-END2	RA: 00 48 5.0016 (12.0208400d) Dec: -25 11 49.82 (-25.19717d) Equinox: J2000	Epoch of Position: 2000	V=7	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[SPIRAL ARM]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(15) NGC-253-END 2	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=20	POS TARG null,-19.81	Pattern 2, Exps 1-1 in Visit 03 (2)	544 Secs (1088 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	*[1]*
2		(15) NGC-253-END 2	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=20	POS TARG null,19.81	Pattern 2, Exps 2-2 in Visit 03 (2)	544 Secs (1088 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	*[1]*

Orbit Structure



Visit

Proposal 18086, Visit 53 Thu Aug 27 20:00:38 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ORIENT 272D TO 272.4 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1), (2)

Fixed Targets

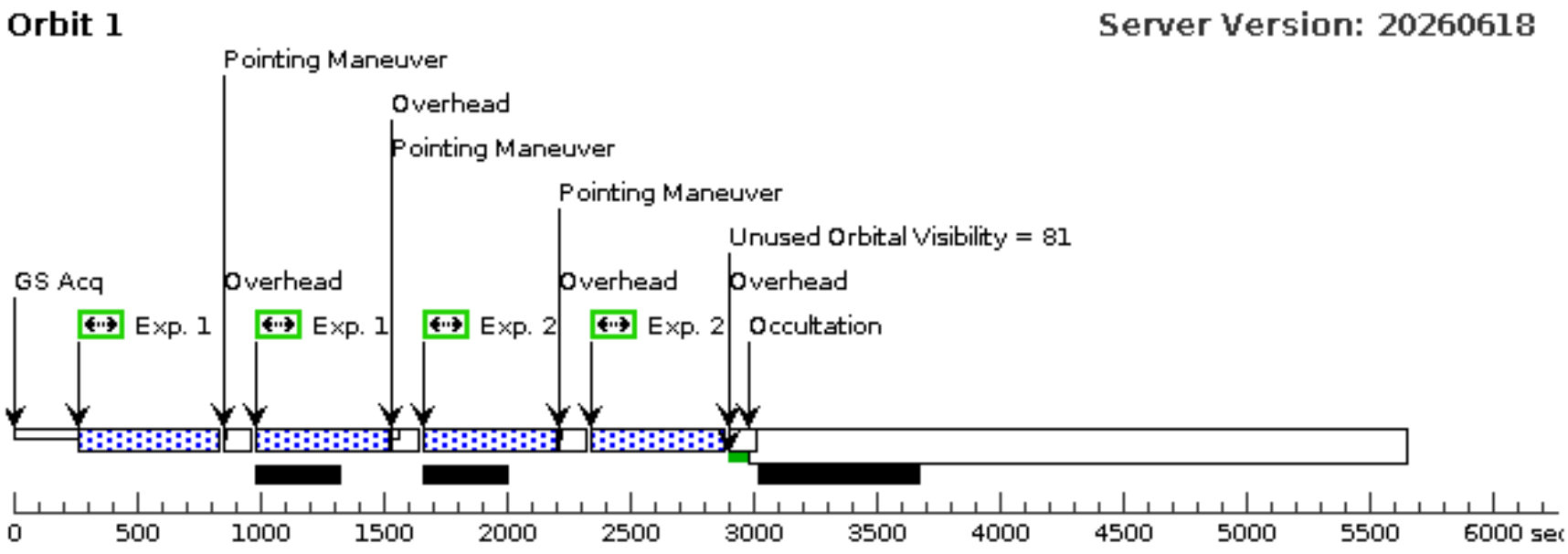
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(15)	NGC-253-END2	RA: 00 48 5.0016 (12.0208400d) Dec: -25 11 49.82 (-25.19717d) Equinox: J2000	Epoch of Position: 2000	V=7	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[SPIRAL ARM]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(15) NGC-253-END2	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=20	POS TARG null,-19.81	Pattern 2, Exps 1-1 in Visit 53 (2)	544 Secs (1088 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
2		(15) NGC-253-END2	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=20	POS TARG null,19.81	Pattern 2, Exps 2-2 in Visit 53 (2)	544 Secs (1088 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***

Orbit Structure



Visit

Proposal 18086, Visit 04, completed Thu Aug 27 20:00:38 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ORIENT 272D TO 272.4 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1), (2)

Fixed Targets

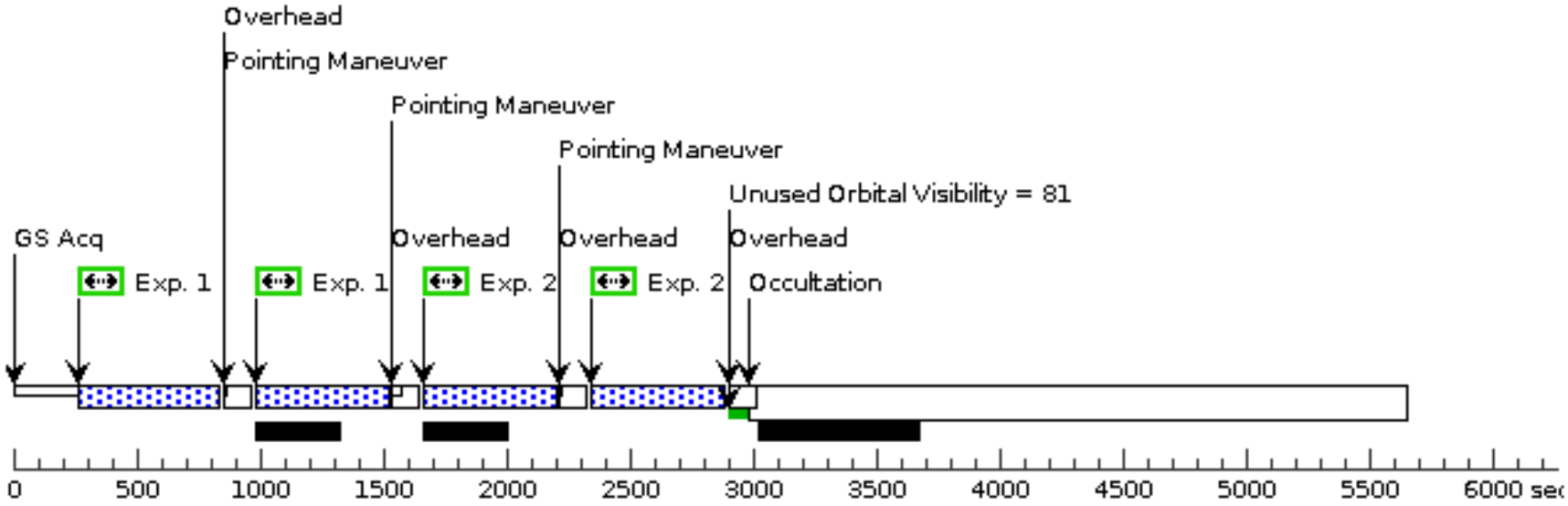
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(16)	NGC-253-END22	RA: 00 47 56.2515 (11.9843812d) Dec: -25 13 25.43 (-25.22373d) Equinox: J2000	Epoch of Position: 2000	V=7	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[SPIRAL ARM]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(16) NGC-253-END22	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=20	POS TARG null,-29	Pattern 2, Exps 1-1 in Visit 04 (2)	544 Secs (1088 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
2		(16) NGC-253-END22	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=20	POS TARG null,29	Pattern 2, Exps 2-2 in Visit 04 (2)	544 Secs (1088 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***

Orbit Structure



Visit

Proposal 18086, Visit 05, completed Thu Aug 27 20:00:38 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ORIENT 272D TO 272.4 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=4 Point Spacing=0.135 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1)

Fixed Targets

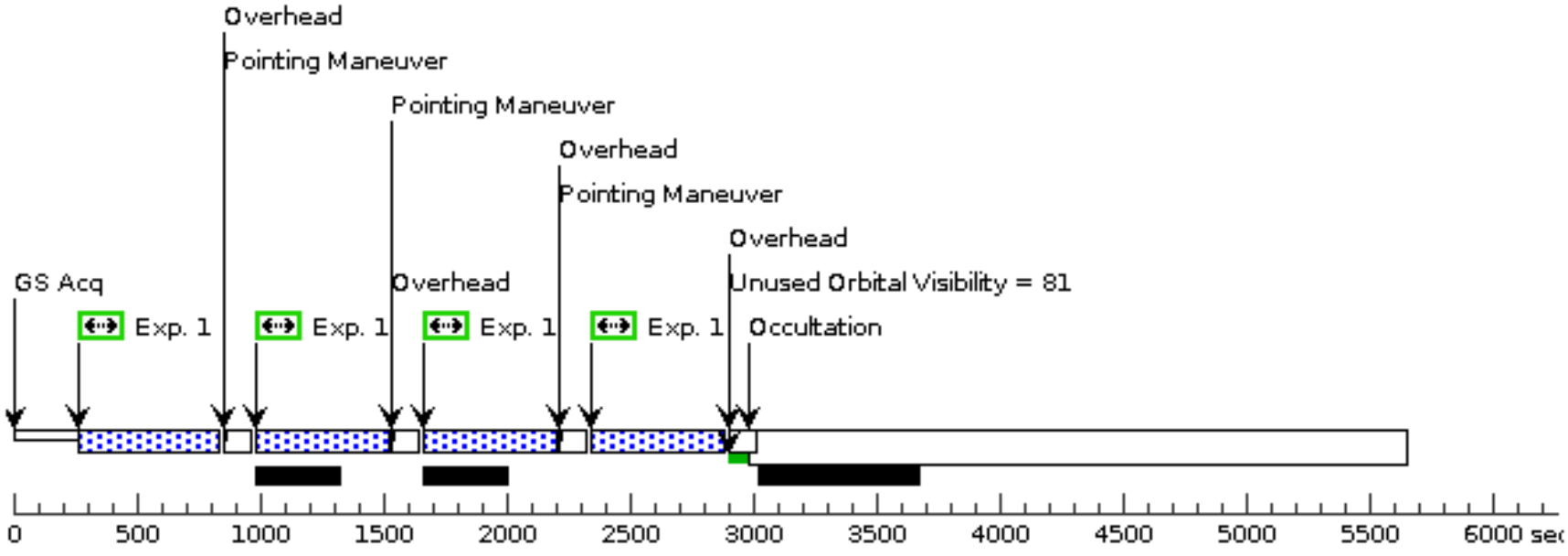
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	NGC-253-V13	RA: 00 47 50.9061 (11.9621088d) Dec: -25 15 56.09 (-25.26558d) Equinox: J2000	Epoch of Position: 2000	V=7	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[SPIRAL ARM]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(5) NGC-253-V13	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=20		Pattern 1, Exps 1-1 in Visit 05 (1)	544 Secs (2176 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 18086, Visit 06, completed Thu Aug 27 20:00:38 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ORIENT 272D TO 272.4 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=4 Point Spacing=0.135 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1)

Fixed Targets

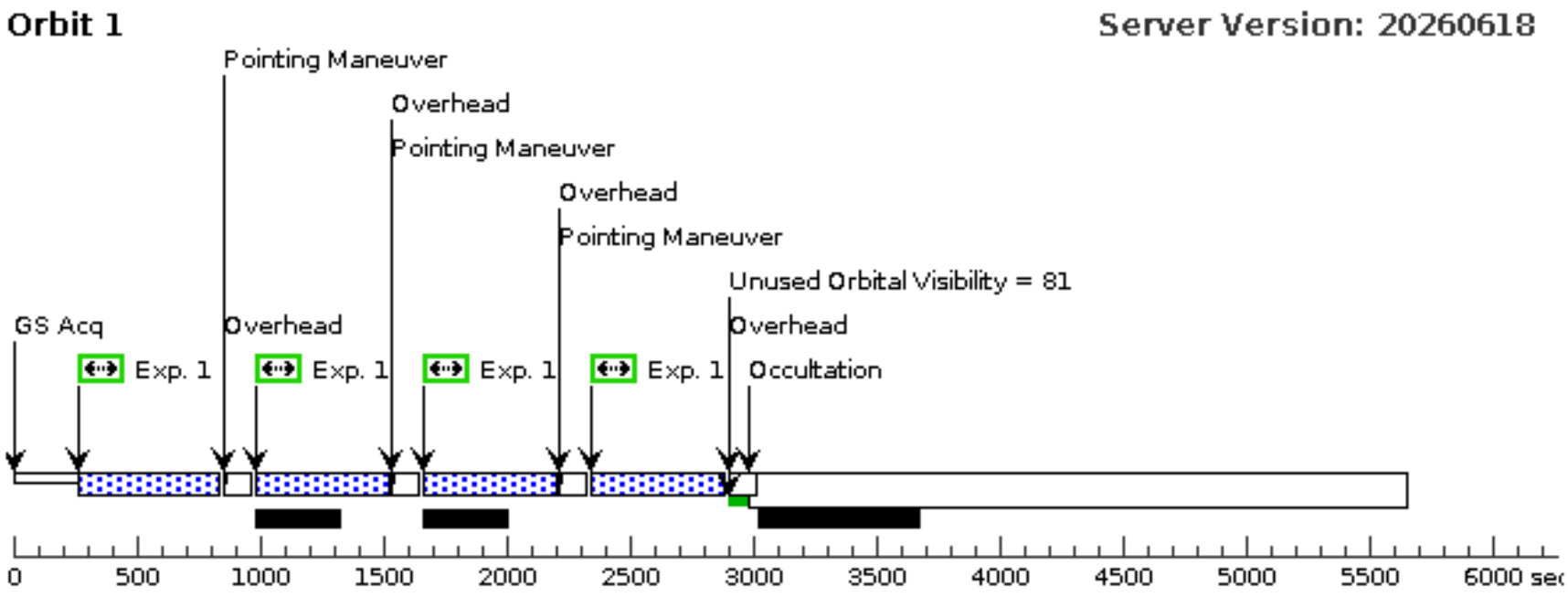
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	NGC-253-V14	RA: 00 47 41.9790 (11.9249125d) Dec: -25 17 34.07 (-25.29280d) Equinox: J2000	Epoch of Position: 2000	V=7	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[SPIRAL ARM]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(6) NGC-253-V14	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=20		Pattern 1, Exps 1-1 in Visit 06 (1)	544 Secs (2176 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 18086, Visit 07, completed Thu Aug 27 20:00:38 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ORIENT 272D TO 272.4 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=4 Point Spacing=0.135 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1)

Fixed Targets

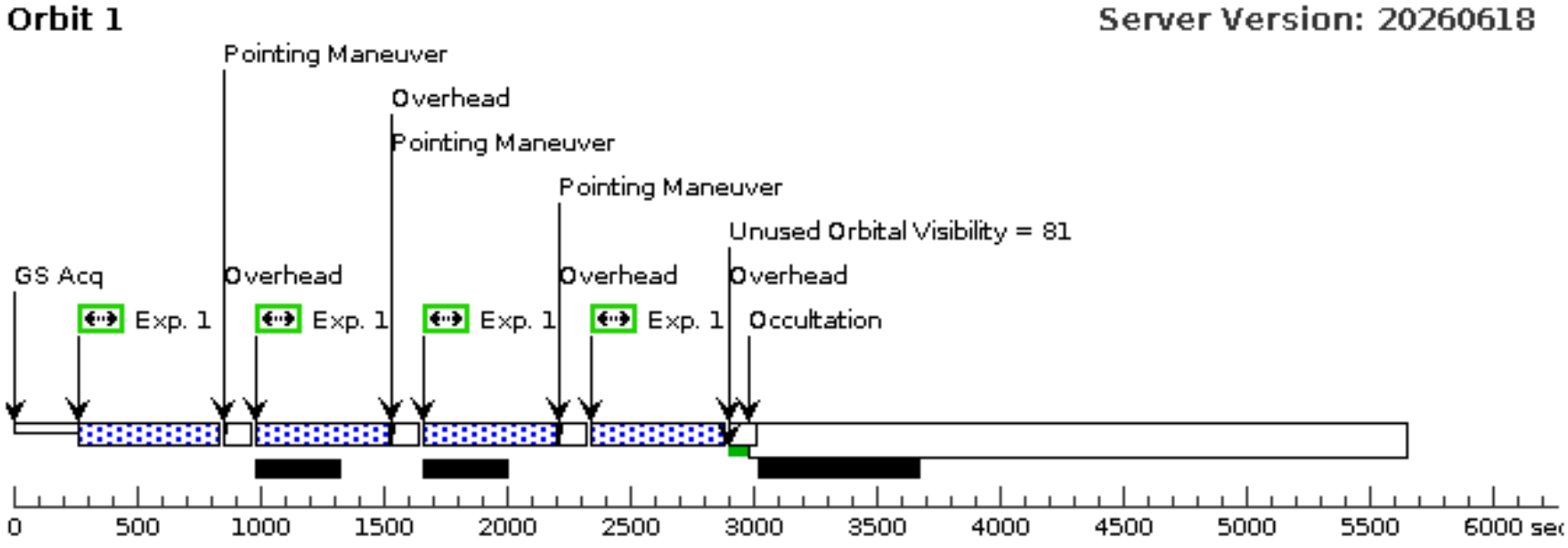
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	NGC-253-V15	RA: 00 47 33.0520 (11.8877167d) Dec: -25 19 12.01 (-25.32000d) Equinox: J2000	Epoch of Position: 2000	V=7	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[SPIRAL ARM]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(7) NGC-253-V15	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=20		Pattern 1, Exps 1-1 in Visit 07 (1)	544 Secs (2176 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	*[1]*

Orbit Structure



Visit

Proposal 18086, Visit 08, completed Thu Aug 27 20:00:38 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ORIENT 272D TO 272.4 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=4 Point Spacing=0.135 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1)

Fixed Targets

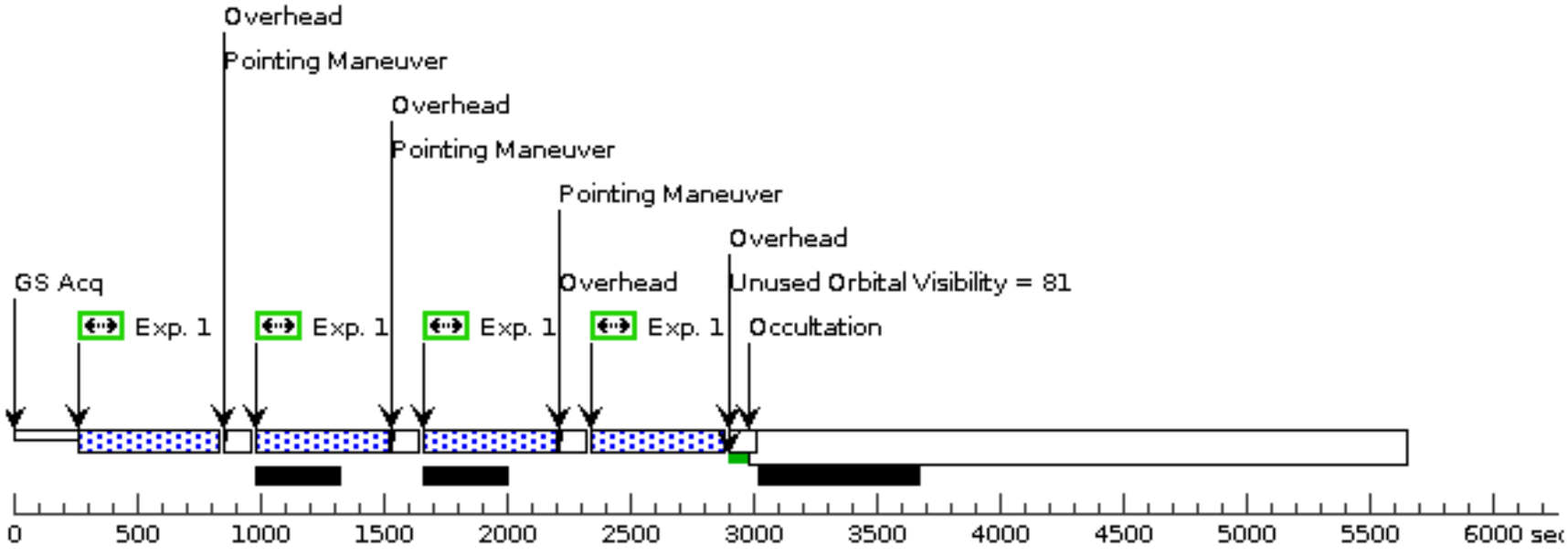
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	NGC-253-V16	RA: 00 47 24.1249 (11.8505204d) Dec: -25 20 49.93 (-25.34720d) Equinox: J2000	Epoch of Position: 2000	V=7	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[SPIRAL ARM]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(8) NGC-253-V16	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=20		Pattern 1, Exps 1-1 in Visit 08 (1)	544 Secs (2176 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 18086, Visit 09, scheduling Thu Aug 27 20:00:38 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ORIENT 341D TO 349 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=4 Point Spacing=0.135 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1)

Fixed Targets

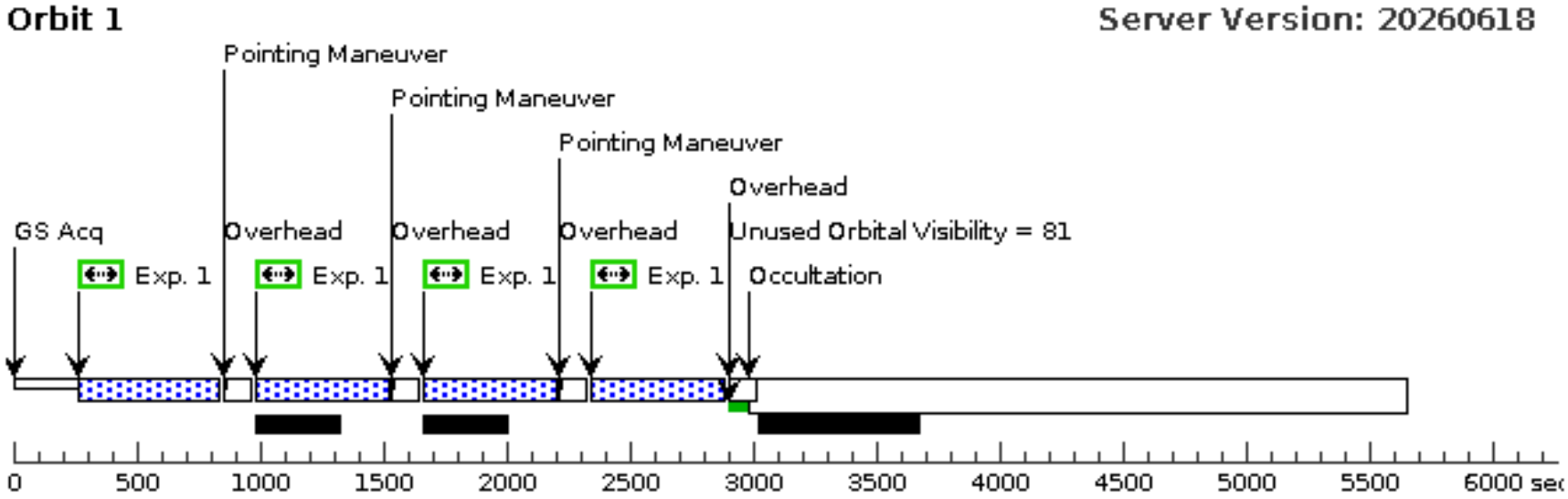
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	NGC-253-V17	RA: 00 47 43.0018 (11.9291742d) Dec: -25 14 22.11 (-25.23948d) Equinox: J2000	Epoch of Position: 2000	V=7	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[SPIRAL ARM]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(9) NGC-253-V17	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=20		Pattern 1, Exps 1-1 in Visit 09 (1)	544 Secs (2176 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 18086, Visit 10, completed Thu Aug 27 20:00:38 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ORIENT 272D TO 272.4 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=4 Point Spacing=0.135 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1)

Fixed Targets

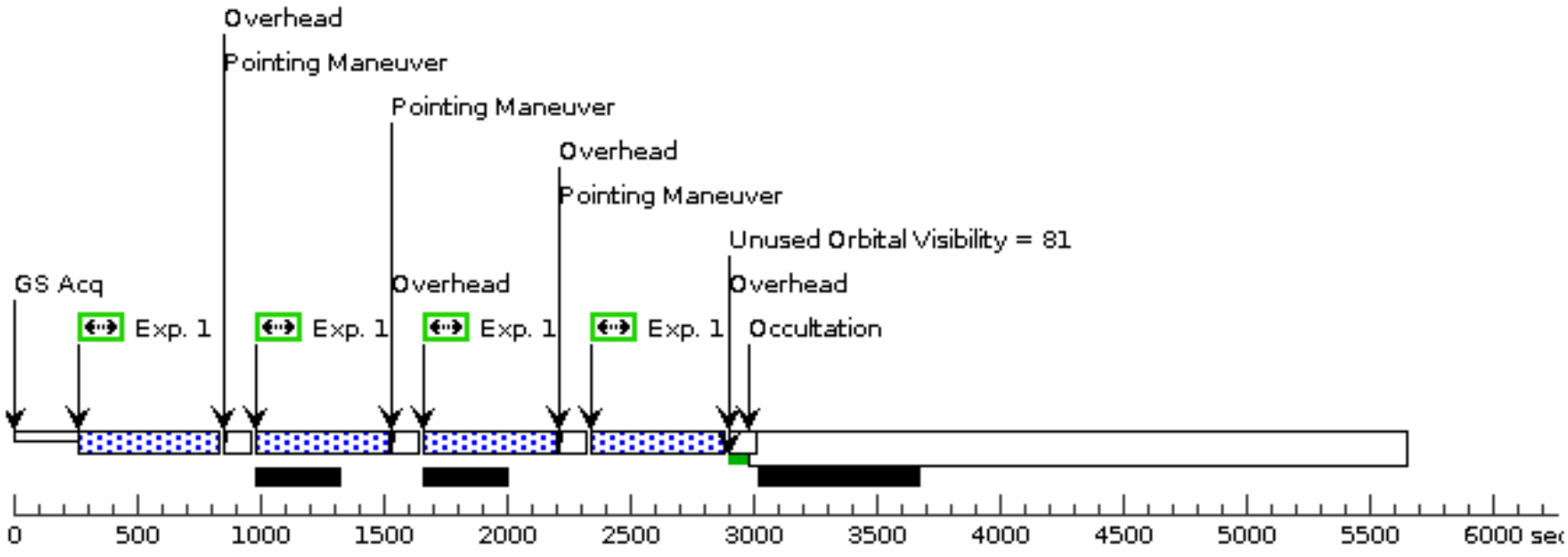
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(10)	NGC-253-V18	RA: 00 47 34.0747 (11.8919779d) Dec: -25 15 39.00 (-25.26083d) Equinox: J2000	Epoch of Position: 2000	V=7	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[SPIRAL ARM]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(10) NGC-253-V18	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=20		Pattern 1, Exps 1-1 in Visit 10 (1)	544 Secs (2176 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 18086, Visit 11, failed

Thu Aug 27 20:00:38 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ORIENT 272D TO 272.4 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=4 Point Spacing=0.135 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1)

Fixed Targets

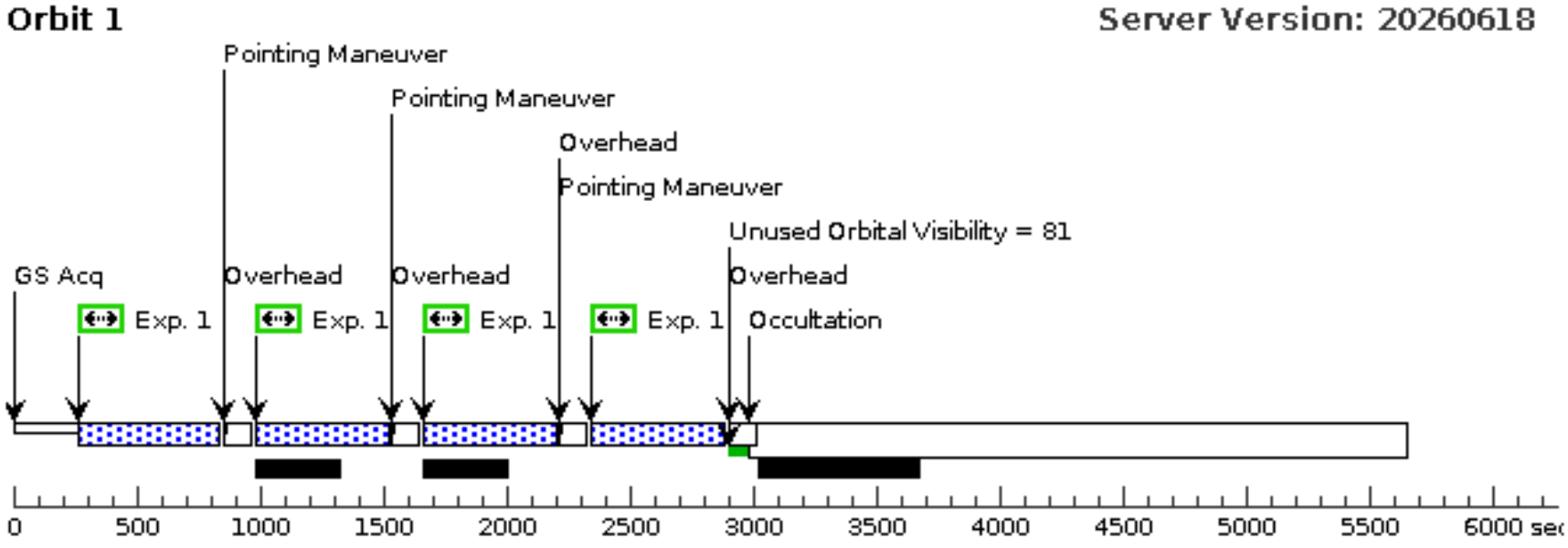
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(11)	NGC-253-V19	RA: 00 47 25.1476 (11.8547817d) Dec: -25 17 16.91 (-25.28803d) Equinox: J2000	Epoch of Position: 2000	V=7	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[SPIRAL ARM]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(11) NGC-253-V19	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=20		Pattern 1, Exps 1-1 in Visit 11 (1)	544 Secs (2176 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	*[1]*

Orbit Structure



Visit

Proposal 18086, Visit 61 Thu Aug 27 20:00:38 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ORIENT 272D TO 272.4 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=4 Point Spacing=0.135 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1)

Fixed Targets

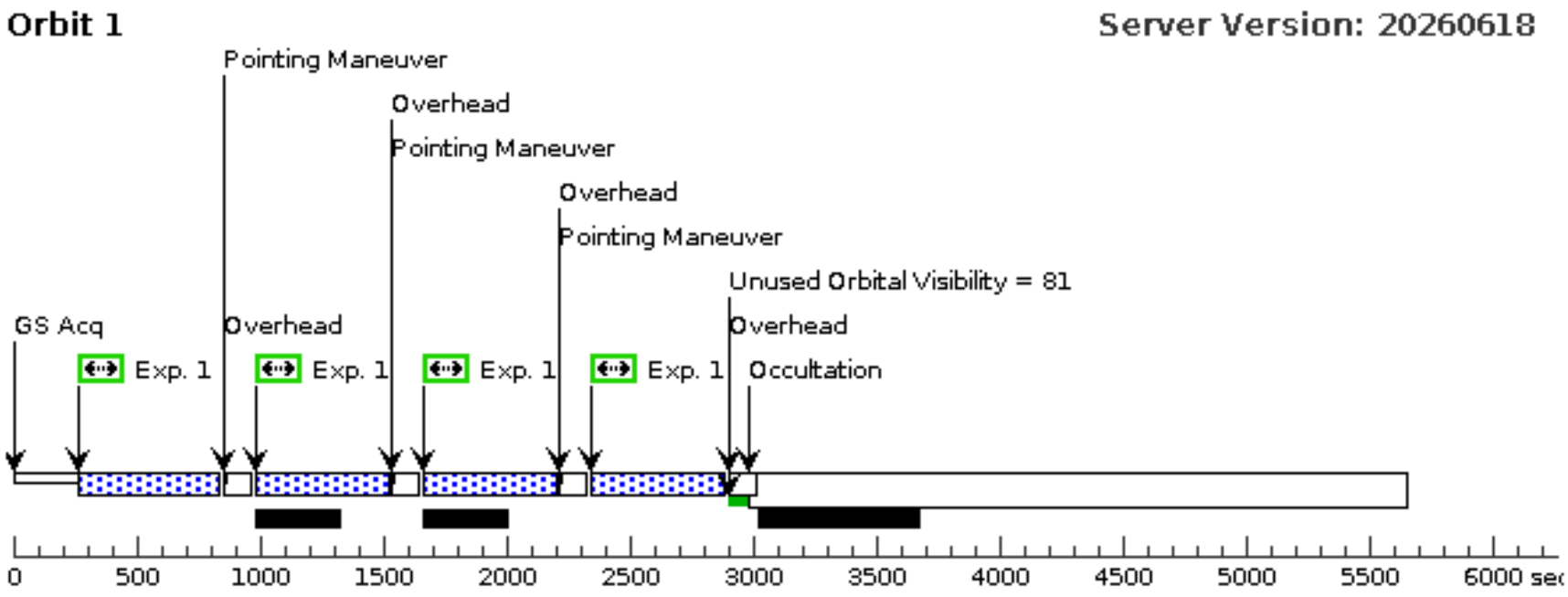
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(11)	NGC-253-V19	RA: 00 47 25.1476 (11.8547817d) Dec: -25 17 16.91 (-25.28803d) Equinox: J2000	Epoch of Position: 2000	V=7	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[SPIRAL ARM]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(11) NGC-253-V19	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=20		Pattern 1, Exps 1-1 in Visit 61 (1)	544 Secs (2176 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 18086, Visit 12, failed Thu Aug 27 20:00:38 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ORIENT 272D TO 272.4 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=4 Point Spacing=0.135 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1)

Fixed Targets

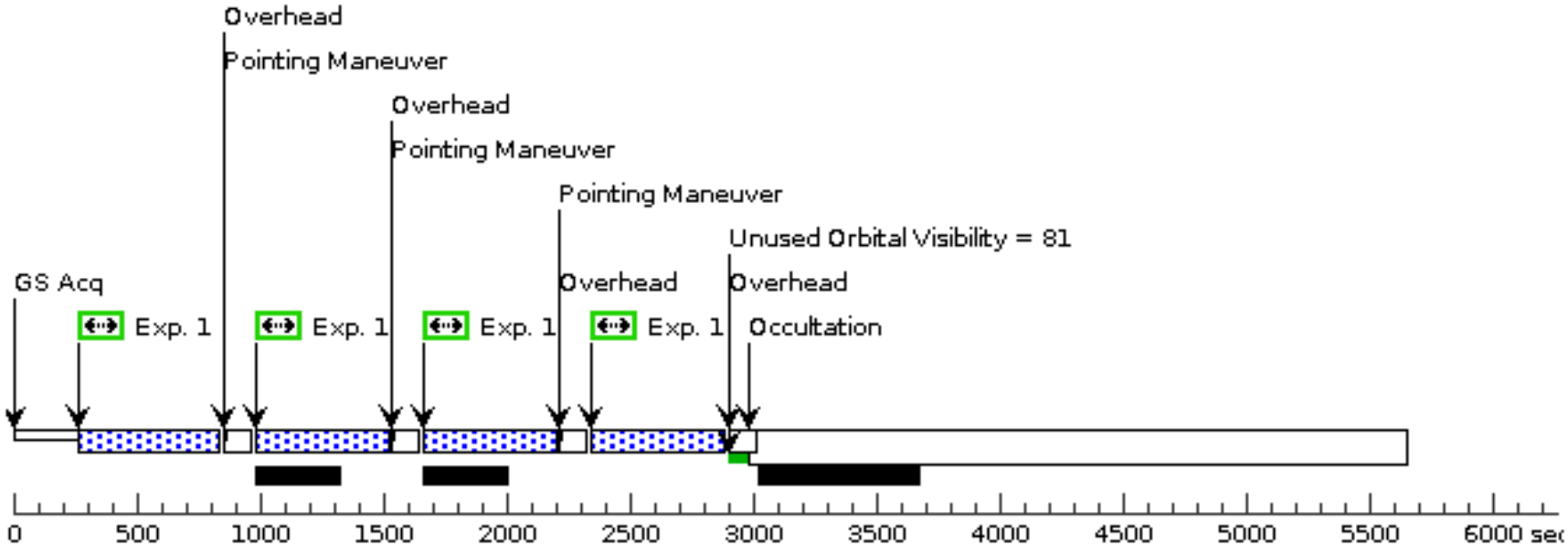
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(12)	NGC-253-V20	RA: 00 47 16.2205 (11.8175854d) Dec: -25 18 54.80 (-25.31522d) Equinox: J2000	Epoch of Position: 2000	V=7	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[SPIRAL ARM]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(12) NGC-253-V20	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=20		Pattern 1, Exps 1-1 in Visit 12 (1)	544 Secs (2176 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 18086, Visit 62 Thu Aug 27 20:00:38 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ORIENT 272D TO 272.4 D

Patterns

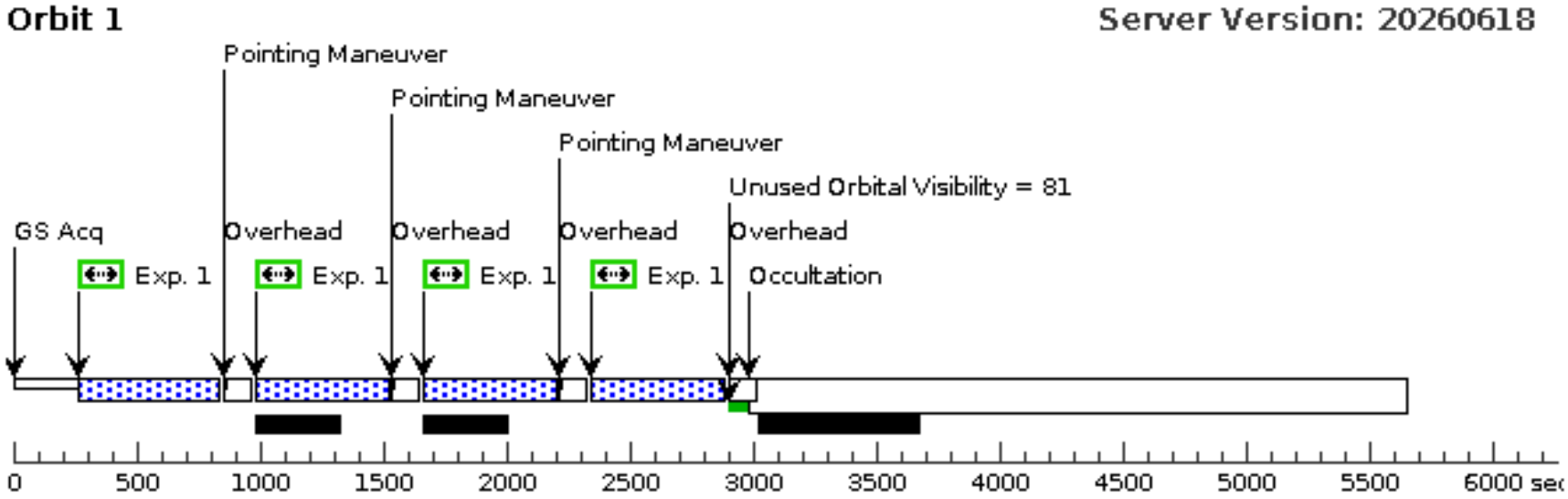
#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=4 Point Spacing=0.135 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(12)	NGC-253-V20	RA: 00 47 16.2205 (11.8175854d) Dec: -25 18 54.80 (-25.31522d) Equinox: J2000	Epoch of Position: 2000	V=7	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[SPIRAL ARM]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(12) NGC-253-V20	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=20		Pattern 1, Exps 1-1 in Visit 62 (1)	544 Secs (2176 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure