17767 - Unveiling TDE Accretion Disks at Late Times with UV Spectroscopy and XMM-Newton

Cycle: 32, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

Name	*Institution*
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Dr. Erica Hammerstein (CoI)	University of California - Berkeley

VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(4) AT2024TVD (5) AT2024TVD-OFFSET-STAR	STIS/CCD STIS/FUV-MAMA	3	24-Jun-2025 10:00:15.0	yes
02	(4) AT2024TVD (5) AT2024TVD-OFFSET-STAR	STIS/CCD STIS/NUV-MAMA	3	24-Jun-2025 10:00:16.0	yes
03	(4) AT2024TVD (5) AT2024TVD-OFFSET-STAR	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	24-Jun-2025 10:00:17.0	yes
04	(6) AT2024LHC	STIS/CCD STIS/FUV-MAMA	3	24-Jun-2025 10:00:18.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
05	(6) AT2024LHC	STIS/CCD STIS/NUV-MAMA	3	24-Jun-2025 10:00:19.0	yes
06	(6) AT2024LHC	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	24-Jun-2025 10:00:19.0	yes
07	(7) AT2024AEPD	STIS/CCD STIS/FUV-MAMA	3	24-Jun-2025 10:00:20.0	yes
08	(7) AT2024AEPD	STIS/CCD STIS/NUV-MAMA	3	24-Jun-2025 10:00:21.0	yes
09	(7) AT2024AEPD	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	24-Jun-2025 10:00:22.0	yes
10	(6) AT2024LHC	STIS/CCD STIS/NUV-MAMA	2	24-Jun-2025 10:00:22.0	yes
11	(6) AT2024LHC	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	24-Jun-2025 10:00:23.0	yes

28 Total Orbits Used

ABSTRACT

The tidal disruption of a star by a supermassive black hole produces broadband emission as the debris forms a disk and accretes. Most previous work has focused on observations near maximum light when the accretion disk may be obscured by a reprocessing layer. However, recent observations have shown that long-lived UV plateaus may be common in these events at late times as the unobscured accretion disk becomes visible. We propose the first STIS UV spectroscopic observations on these timescales combined with XMM-Newton observations to diagnose the properties of the accretion disk, the spectral shape of the ionizing continuum, and how these are reflected in the broad emission lines. These observations will open a new window of investigation into late-time multiwavelength properties of TDEs and will strengthen connections between previous work on AGN accretion and newly formed TDE accretion disks.

OBSERVING DESCRIPTION

This proposal consists of non-disruptive ToO observations (up to 30 days response time) of 3 tidal disruption events (TDEs) for 8 orbits with HST + 15ks with XMM-Newton.

Each TDE trigger will be for an old object, more than 200 days after optical discovery. We anticipate that our targets will be faint and in the range of 18th-21st AB magnitude on top of a host galaxy nucleus of similar optical brightness (but much fainter in the UV).

For each TDE target, we need 8 orbits of observation: 4 with STIS/FUV-MAMA and 4 with STIS/NUV-MAMA. Due to the scheduling restriction that visits should be no longer than 3 orbits, we have broken up each TDE trigger into 3 visits:

Visit 1: 3 orbits with STIS/FUV-MAMA using G140L and the 52x0.2D1 aperture (following advice in STIS handbook section 4.2.3 to place point sources near the D1 position for FUV)

Visit 2: 3 orbits with STIS/NUV-MAMA using G230L with the 52x0.2 aperture

Visit 3: 1 orbit with STIS/FUV-MAMA and 1 orbit with STIS/FUV-MAMA to complete the observation

Each visit requires an ACQ in the first orbit. As these are triggered observations, we do not yet know the exact brightness of the TDE or the host. We expect that the TDE will be a UV-bright point source on top of a (much redder) galaxy nucleus. The ACQ process uses the STIS/CCD with the F28X50LP filter, but the host galaxy may dominate in the optical. I have entered placeholder parameters for a diffuse acquisition. The exposure times and checkbox size may be adjusted depending on the actual properties of the target, so we have not provided ETC output until the actual fluxes are known.

A ToO Activation on TDE1 should activate Visits 01, 02, and 03.
A ToO Activation on TDE2 should activate Visits 04, 05, and 06.
A ToO Activation on TDE3 should activate Visits 07, 08, and 09.

Visit

Proposal 17767, Visit 01, completed Tue Jun 24 14:00:24 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: TOO RESPONSE TIME 30.0D

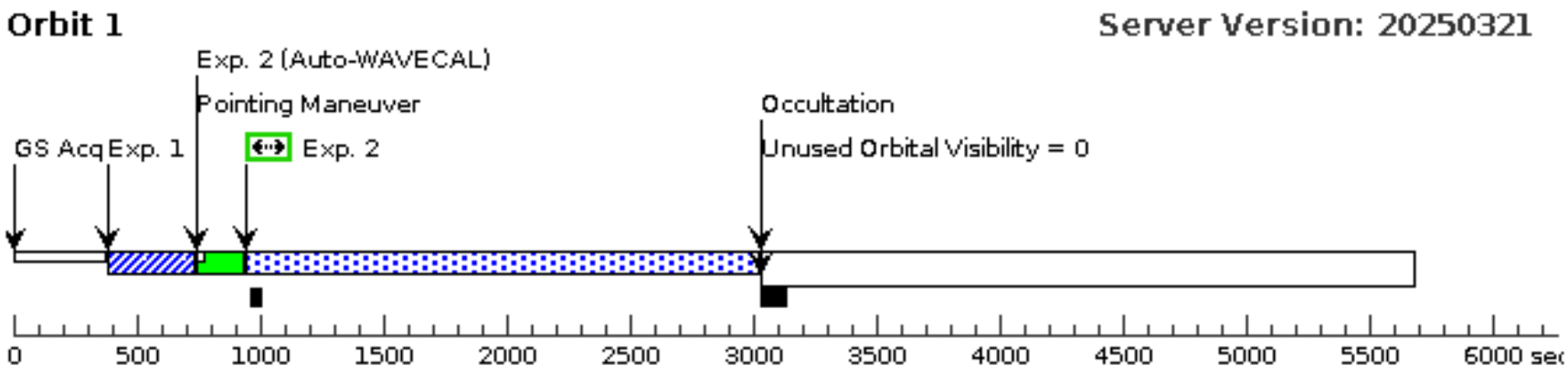
Fixed Targets

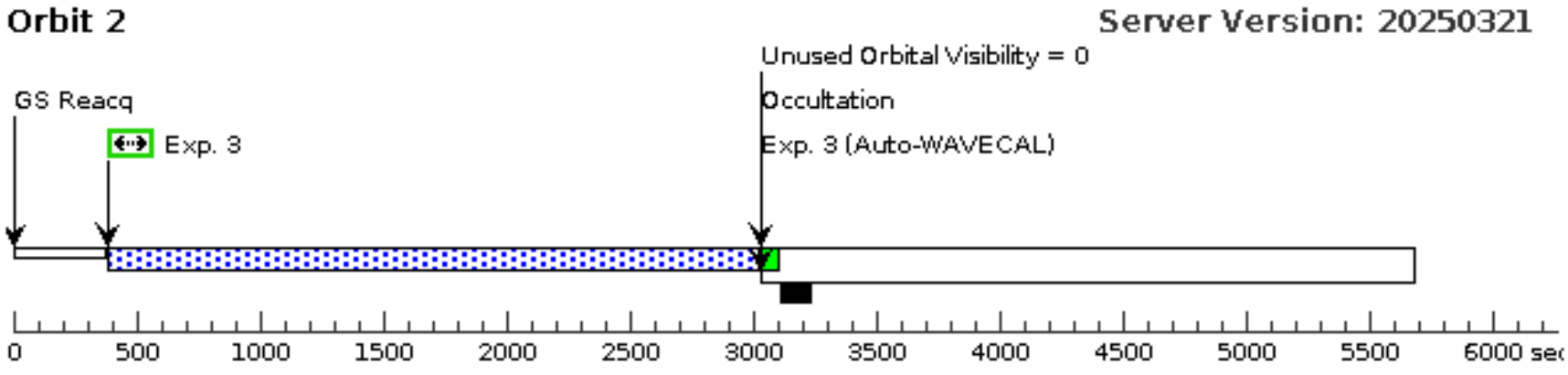
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	AT2024TVD	RA: 17 10 42.5722 (257.6773842d) Dec: +28 50 15.06 (28.83752d) Equinox: J2000	Epoch of Position: 2000	V=20	Reference Frame: ICRS
Comments: *Category=GALAXY* *Description=[NUCLEUS, QUASAR]*					
(5)	AT2024TVD-OFFSET-STAR	RA: 17 10 42.9677 (257.6790321d) Dec: +28 49 40.93 (28.82804d) Equinox: J2000	Epoch of Position: 2000	V=17.1+/-0.3	Reference Frame: ICRS
Comments: *Category=STAR* *Description=[UNDESIGNATED]*					

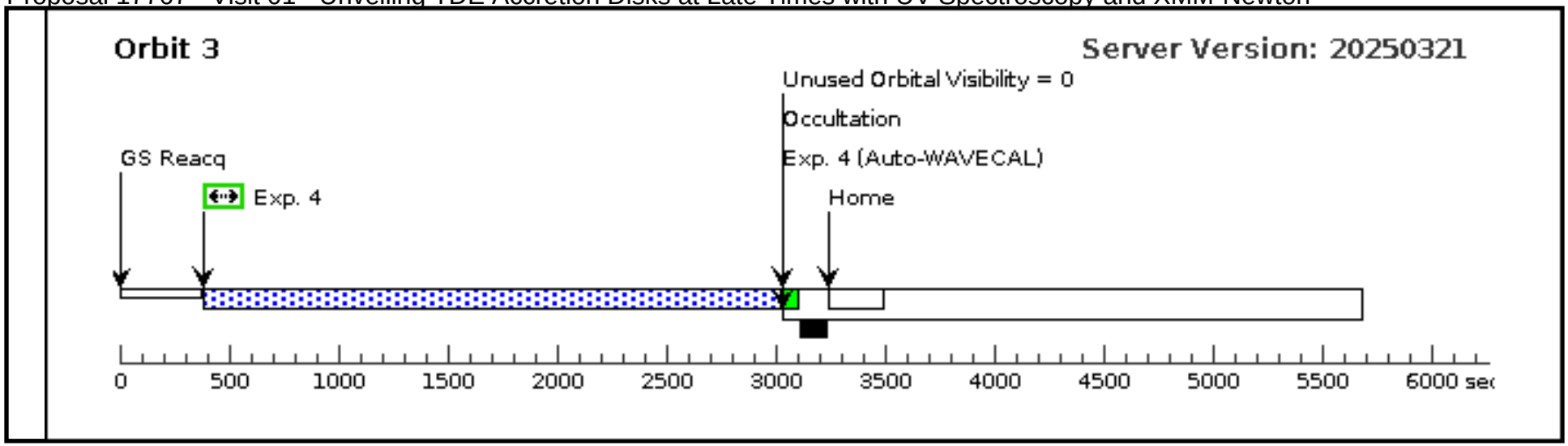
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(5) AT2024TVD-OFFSET-STAR	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			30 Secs (30 Secs)	
								[==>]	***[1]***
Comments: This is an offset star.									
2	(STIS.sp.1981522)	(4) AT2024TVD	STIS/FUV-MAMA, ACCUM, 52X0.2D1	G140L 1425 A				1500 Secs (2063 Secs)	
								[==>2063.0 Secs]	***[1]***
3	(STIS.sp.1981522)	(4) AT2024TVD	STIS/FUV-MAMA, ACCUM, 52X0.2D1	G140L 1425 A				2000 Secs (2624 Secs)	
								[==>2624.0 Secs]	***[2]***
4	(STIS.sp.1981522)	(4) AT2024TVD	STIS/FUV-MAMA, ACCUM, 52X0.2D1	G140L 1425 A				2000 Secs (2624 Secs)	
								[==>2624.0 Secs]	***[3]***

Orbit Structure



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Occultation
Exp. 4 (Auto-WAVECAL)
GS Reacq
Exp. 4
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Visit

Proposal 17767, Visit 02, completed

Tue Jun 24 14:00:24 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/NUV-MAMA, STIS/CCD

Special Requirements: TOO RESPONSE TIME 30.0D

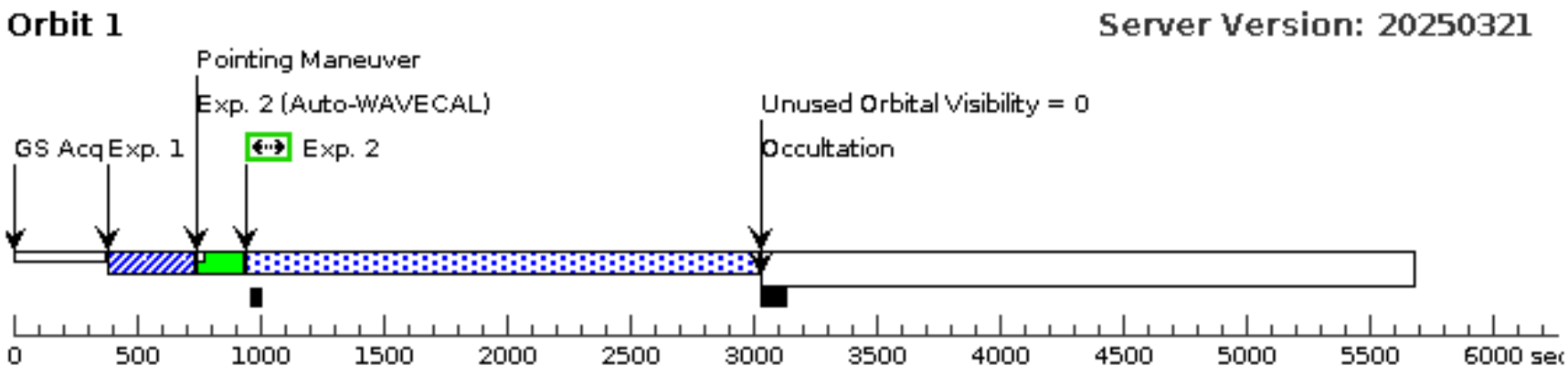
Fixed Targets

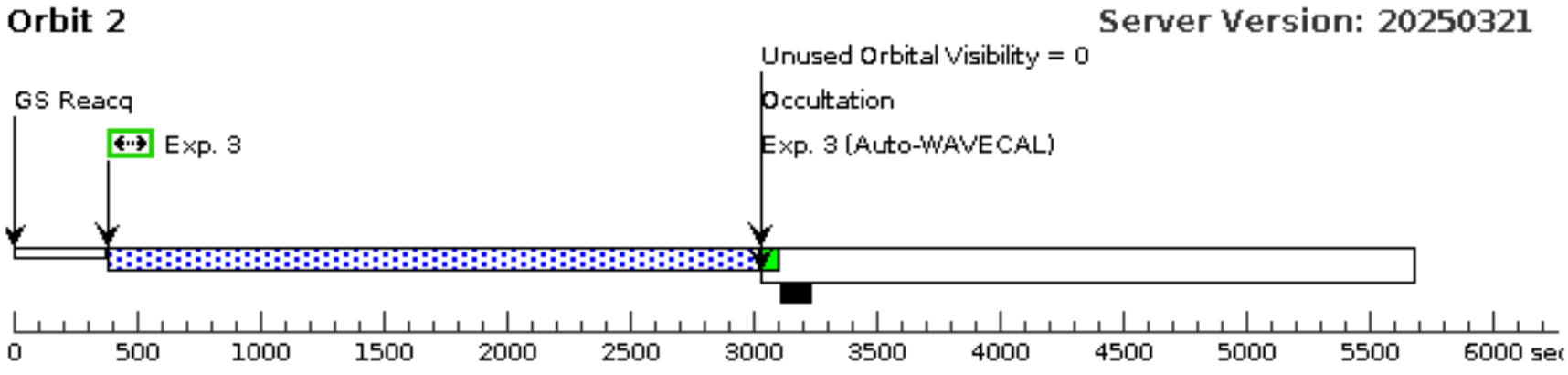
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	AT2024TVD	RA: 17 10 42.5722 (257.6773842d) Dec: +28 50 15.06 (28.83752d) Equinox: J2000	Epoch of Position: 2000	V=20	Reference Frame: ICRS
Comments: *Category=GALAXY* *Description=[NUCLEUS, QUASAR]*					
(5)	AT2024TVD-OFFSET-STAR	RA: 17 10 42.9677 (257.6790321d) Dec: +28 49 40.93 (28.82804d) Equinox: J2000	Epoch of Position: 2000	V=17.1+/-0.3	Reference Frame: ICRS
Comments: *Category=STAR* *Description=[UNDESIGNATED]*					

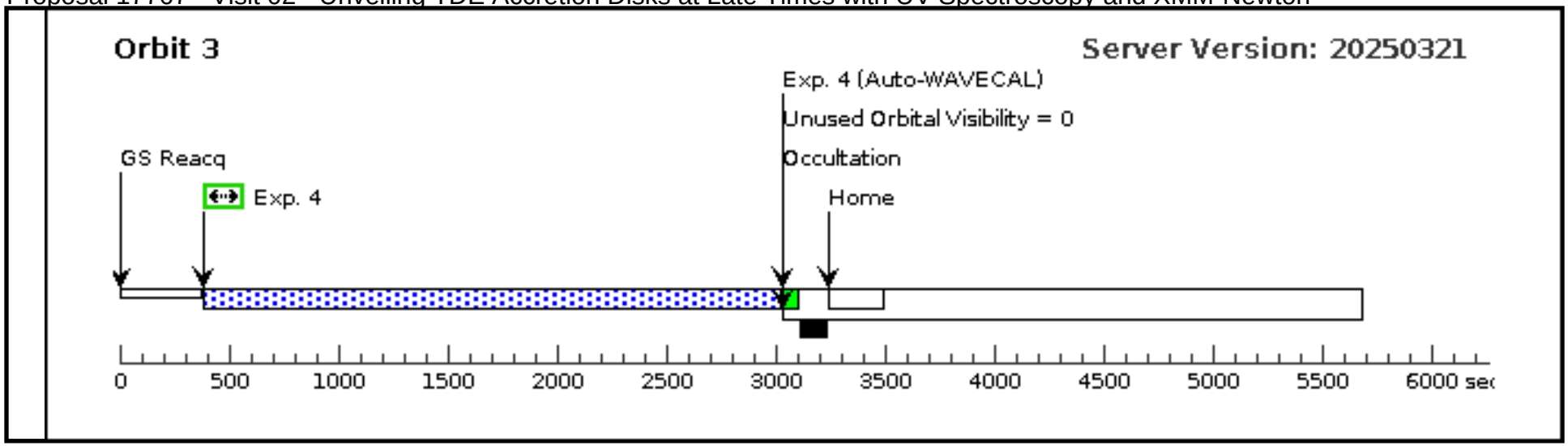
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(5) AT2024TVD-OFFSET-STAR	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			30 Secs (30 Secs)	
								[==>]	***[1]***
Comments: This is an offset star.									
2	(STIS.sp.1981523)	(4) AT2024TVD	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				1500 Secs (2063 Secs)	
								[==>2063.0 Secs]	***[1]***
3	(STIS.sp.1981523)	(4) AT2024TVD	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2000 Secs (2624 Secs)	
								[==>2624.0 Secs]	***[2]***
4	(STIS.sp.1981523)	(4) AT2024TVD	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2000 Secs (2624 Secs)	
								[==>2624.0 Secs]	***[3]***

Orbit Structure



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GS Reacq
Exp. 4
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Visit

Proposal 17767, Visit 03, completed Tue Jun 24 14:00:24 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA

Special Requirements: TOO RESPONSE TIME 30.0D

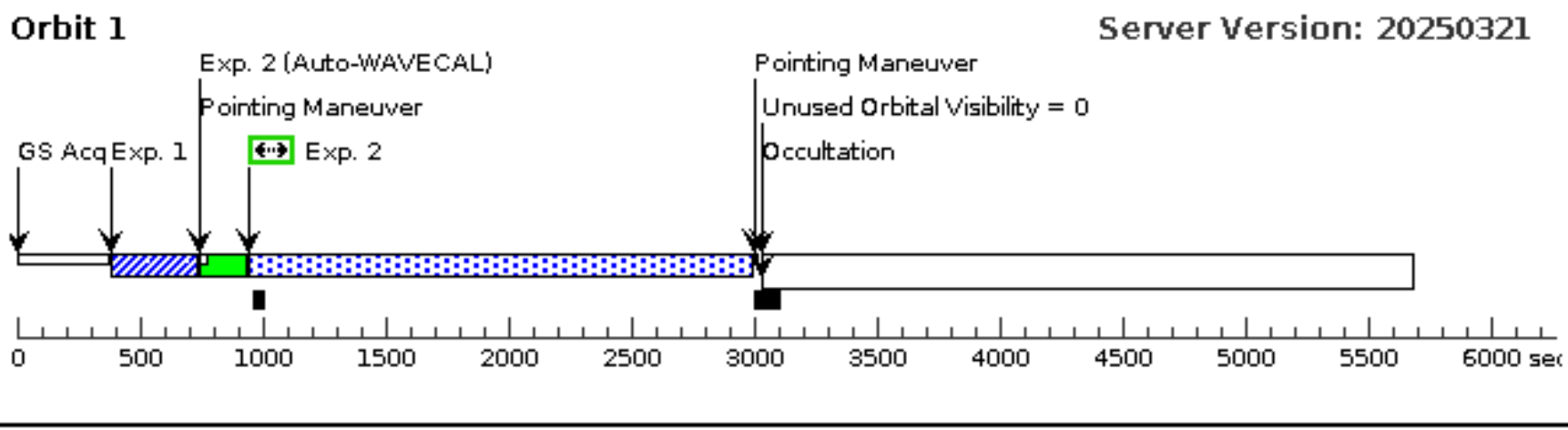
Fixed Targets

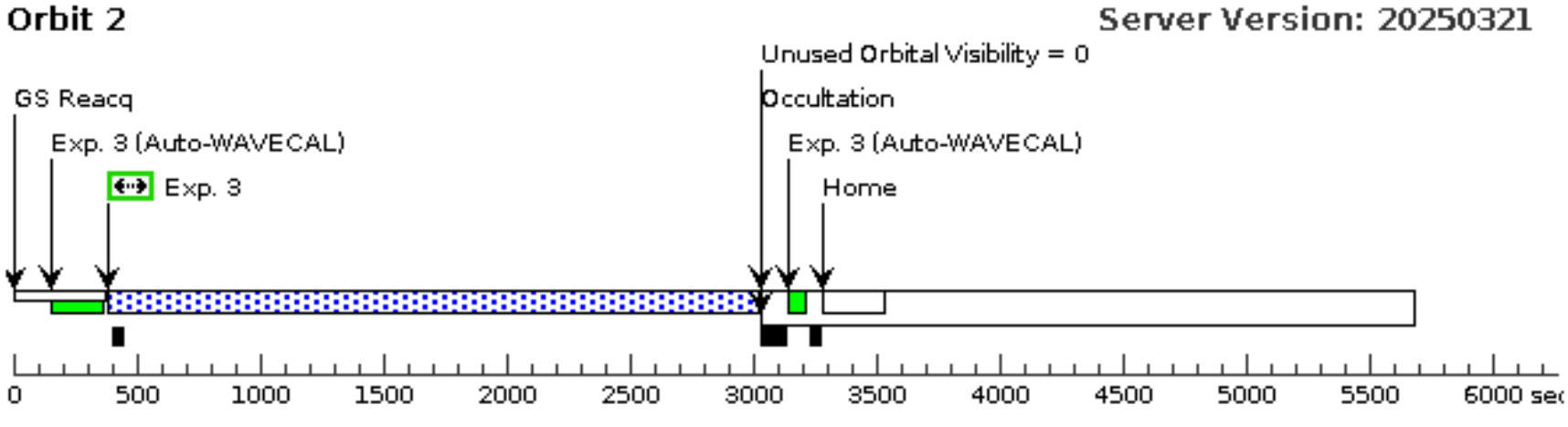
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	AT2024TVD	RA: 17 10 42.5722 (257.6773842d) Dec: +28 50 15.06 (28.83752d) Equinox: J2000	Epoch of Position: 2000	V=20	Reference Frame: ICRS
Comments: *Category=GALAXY* *Description=[NUCLEUS, QUASAR]*					
(5)	AT2024TVD-OFFSET-STAR	RA: 17 10 42.9677 (257.6790321d) Dec: +28 49 40.93 (28.82804d) Equinox: J2000	Epoch of Position: 2000	V=17.1+/-0.3	Reference Frame: ICRS
Comments: *Category=STAR* *Description=[UNDESIGNATED]*					

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(5) AT2024TVD-OFFSET-STAR	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			30 Secs (30 Secs) *[==>]*	 ***[1]***
Comments: This is an offset star.									
2	(STIS.sp.1981523)	(4) AT2024TVD	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				1500 Secs (2035 Secs) *[==>2035.0 Secs]*	 ***[1]***
3	(STIS.sp.1981522)	(4) AT2024TVD	STIS/FUV-MAMA, ACCUM, 52X0.2D1	G140L 1425 A				2000 Secs (2624 Secs) *[==>2624.0 Secs]*	 ***[2]***

Orbit Structure





Visit

Proposal 17767, Visit 04, completed Tue Jun 24 14:00:24 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: TOO RESPONSE TIME 30.0D

Fixed Targets

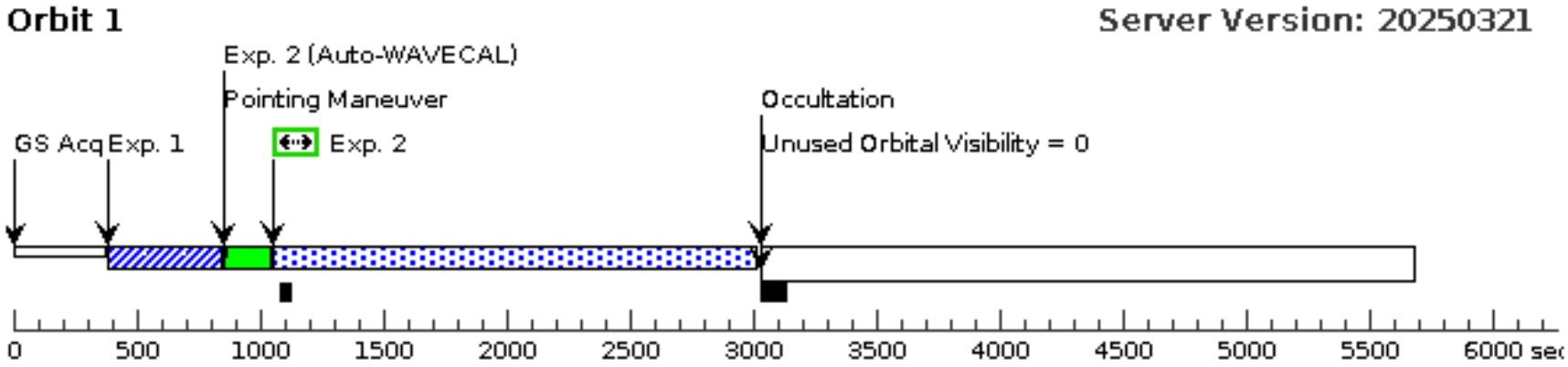
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	AT2024LHC	RA: 16 50 54.1500 (252.7256250d) Dec: +32 52 36.20 (32.87672d) Equinox: J2000		V=20	Reference Frame: ICRS

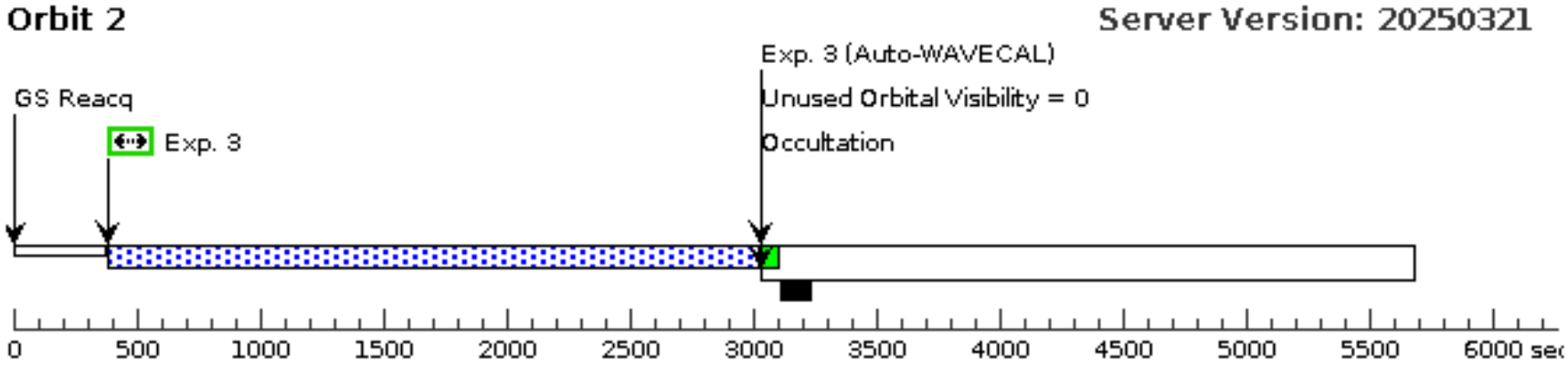
Comments: Point source transient on top of r~18th mag host
Category=GALAXY
Description=[NUCLEUS]

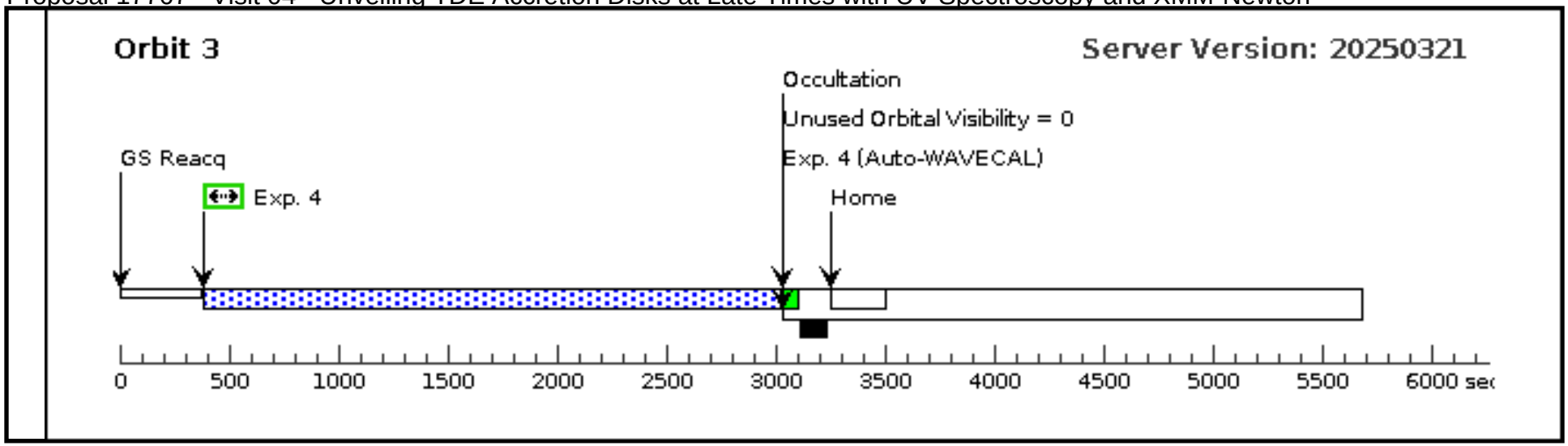
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(6) AT2024LHC	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=13; DIFFUSE-CENTER=FLUX-CENTROID			50 Secs (50 Secs) *[==>]*	 ***[1]***
2	(STIS.sp.1981522)	(6) AT2024LHC	STIS/FUV-MAMA, ACCUM, 52X0.2D1	G140L 1425 A				1500 Secs (1947 Secs) *[==>1947.0 Secs]*	 ***[1]***
3	(STIS.sp.1981522)	(6) AT2024LHC	STIS/FUV-MAMA, ACCUM, 52X0.2D1	G140L 1425 A				2000 Secs (2626 Secs) *[==>2626.0 Secs]*	 ***[2]***
4	(STIS.sp.1981522)	(6) AT2024LHC	STIS/FUV-MAMA, ACCUM, 52X0.2D1	G140L 1425 A				2000 Secs (2626 Secs) *[==>2626.0 Secs]*	 ***[3]***

Orbit Structure



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Visit

Proposal 17767, Visit 05, failed

Tue Jun 24 14:00:24 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/NUV-MAMA, STIS/CCD

Special Requirements: TOO RESPONSE TIME 30.0D

Fixed Targets

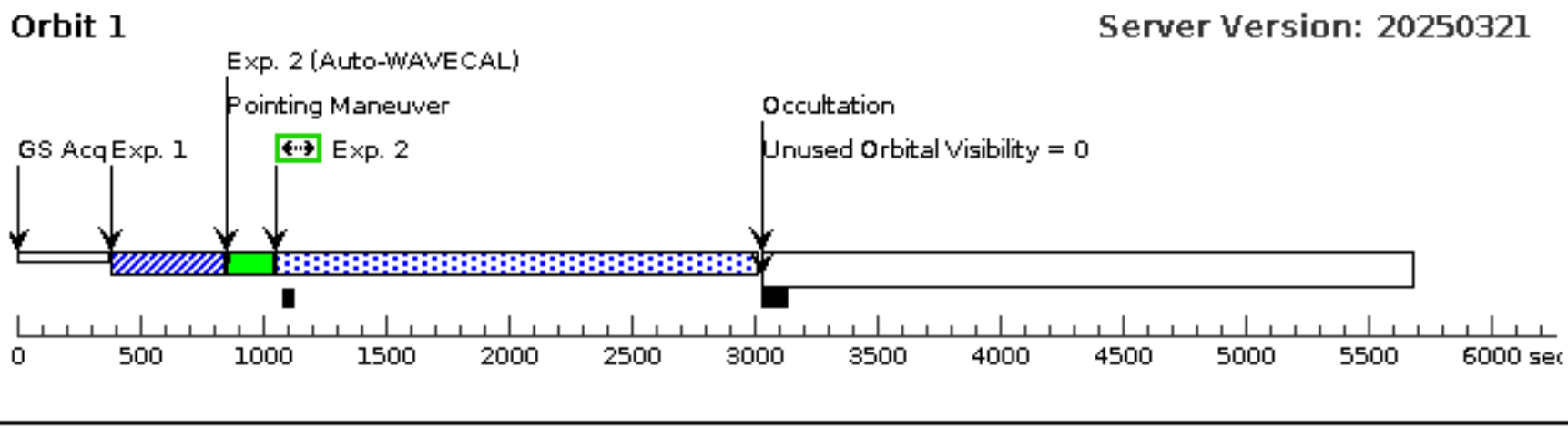
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	AT2024LHC	RA: 16 50 54.1500 (252.7256250d) Dec: +32 52 36.20 (32.87672d) Equinox: J2000		V=20	Reference Frame: ICRS

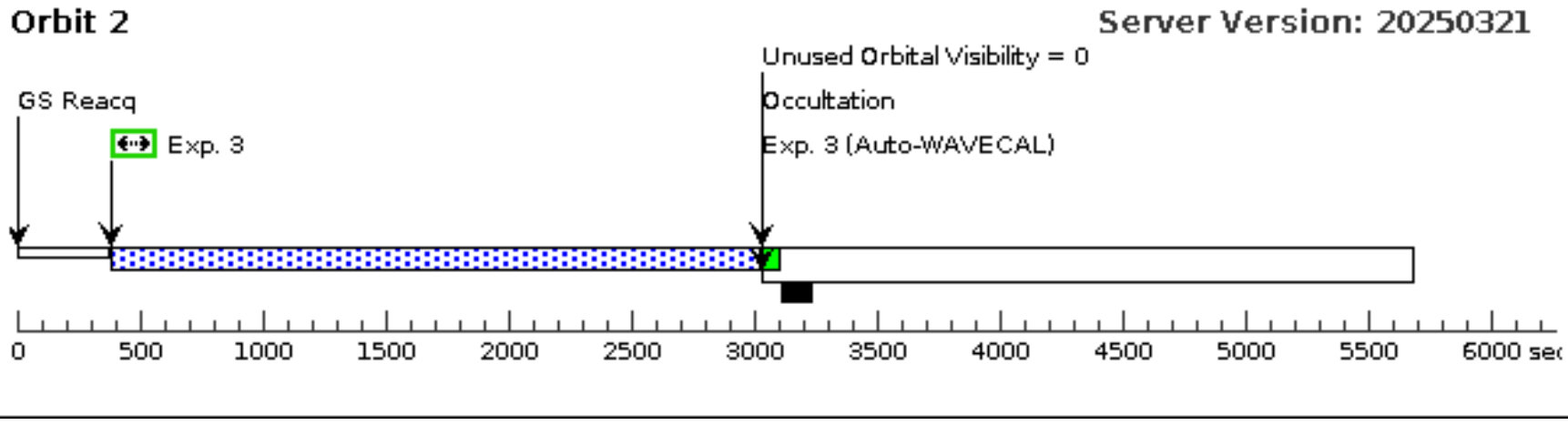
Comments: Point source transient on top of r~18th mag host
Category=GALAXY
Description=[NUCLEUS]

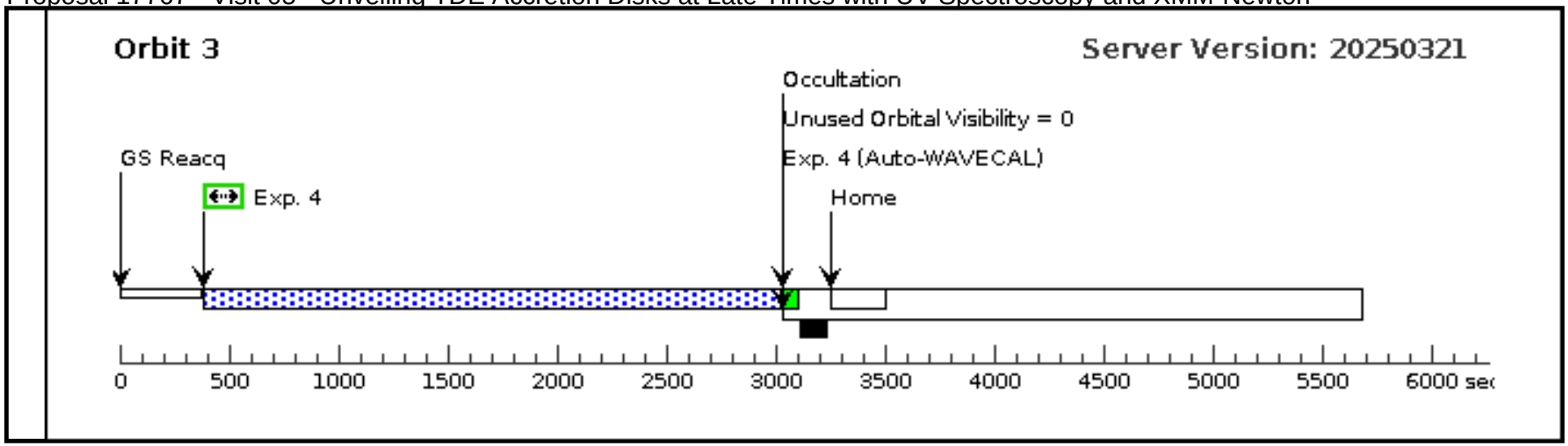
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(6) AT2024LHC	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=13; DIFFUSE-CENTER=FLUX-CENTROID			50 Secs (50 Secs) *[==>]*	***[1]***
2	(STIS.sp.1981523)	(6) AT2024LHC	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				1500 Secs (1947 Secs) *[==>1947.0 Secs]*	***[1]***
3	(STIS.sp.1981523)	(6) AT2024LHC	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2000 Secs (2626 Secs) *[==>2626.0 Secs]*	***[2]***
4	(STIS.sp.1981523)	(6) AT2024LHC	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2000 Secs (2626 Secs) *[==>2626.0 Secs]*	***[3]***

Orbit Structure



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Proposal 17767 - Visit 06 - Unveiling TDE Accretion Disks at Late Times with UV Spectroscopy and XMM-Newton

Visit

Proposal 17767, Visit 06, failed Tue Jun 24 14:00:24 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA

Special Requirements: TOO RESPONSE TIME 30.0D

Fixed Targets

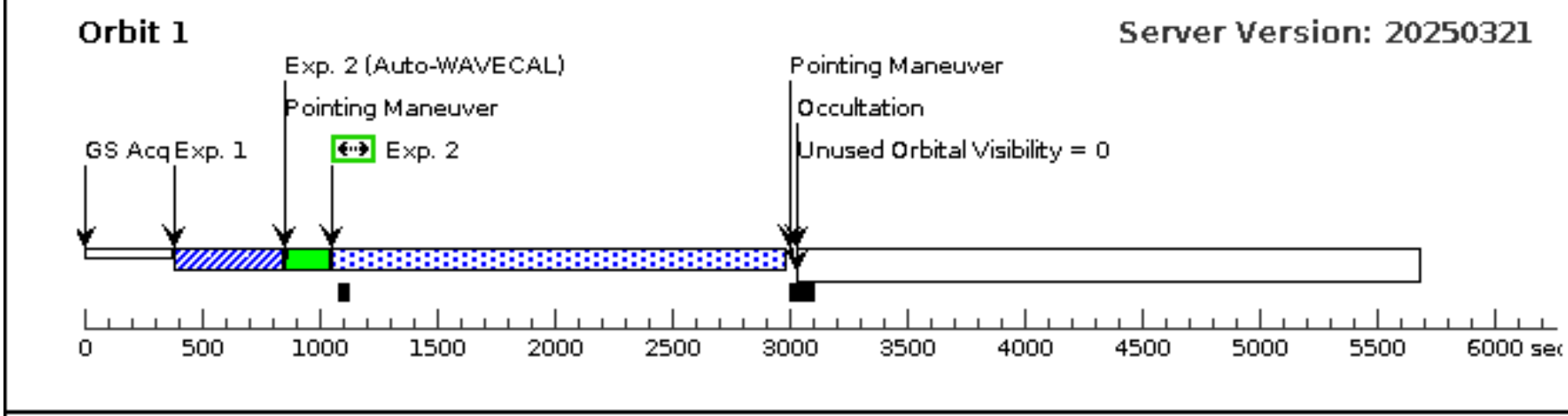
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	AT2024LHC	RA: 16 50 54.1500 (252.7256250d) Dec: +32 52 36.20 (32.87672d) Equinox: J2000		V=20	Reference Frame: ICRS

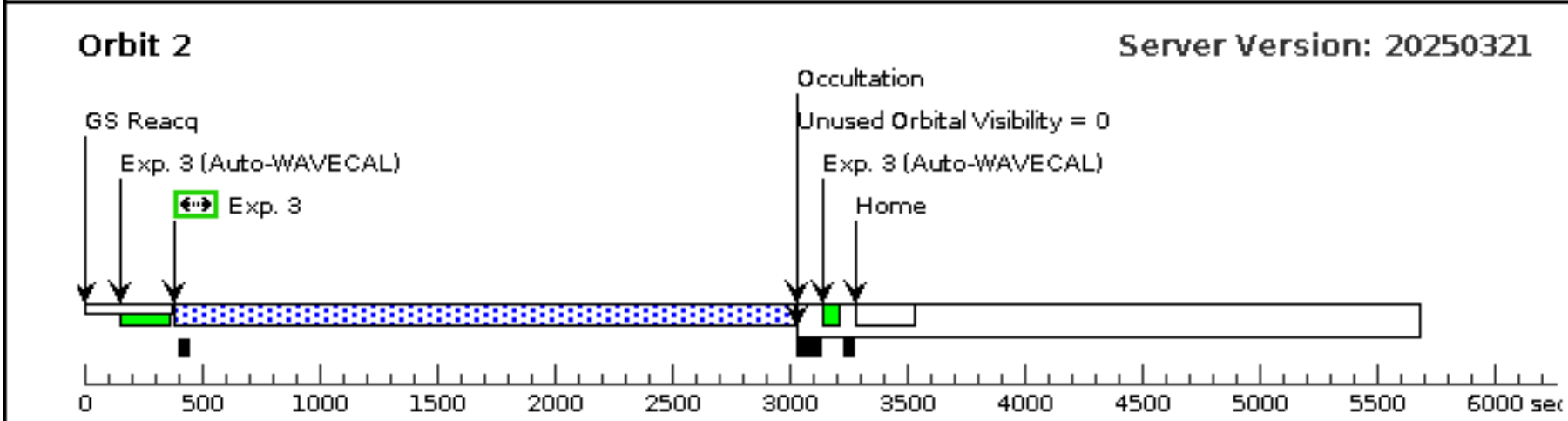
Comments: Point source transient on top of r~18th mag host
Category=GALAXY
Description=[NUCLEUS]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(6) AT2024LHC	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=13; DIFFUSE-CENTER=FLUX-CENTROID			50 Secs (50 Secs) *[==>]*	***[1]***
2	(STIS.sp.1981523)	(6) AT2024LHC	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				1500 Secs (1919 Secs) *[==>1919.0 Secs]*	***[1]***
3	(STIS.sp.1981522)	(6) AT2024LHC	STIS/FUV-MAMA, ACCUM, 52X0.2D1	G140L 1425 A				2000 Secs (2626 Secs) *[==>2626.0 Secs]*	***[2]***

Orbit Structure





Visit

Proposal 17767, Visit 07, implementation Tue Jun 24 14:00:24 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: TOO RESPONSE TIME 30.0D

Fixed Targets

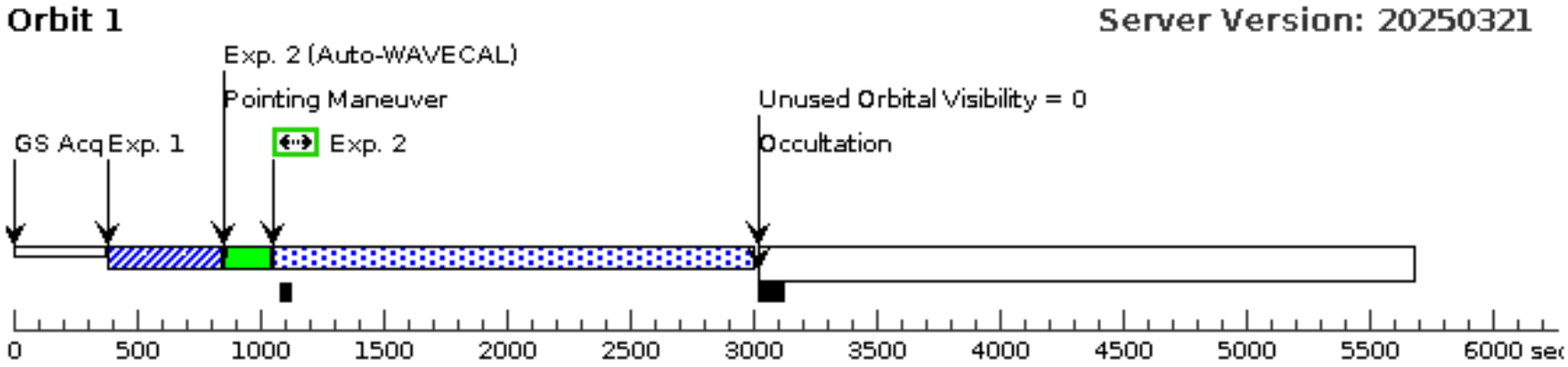
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	AT2024AEPD	RA: 15 25 39.3000 (231.4137500d) Dec: +17 40 50.38 (17.68066d) Equinox: J2000		V=20	Reference Frame: ICRS

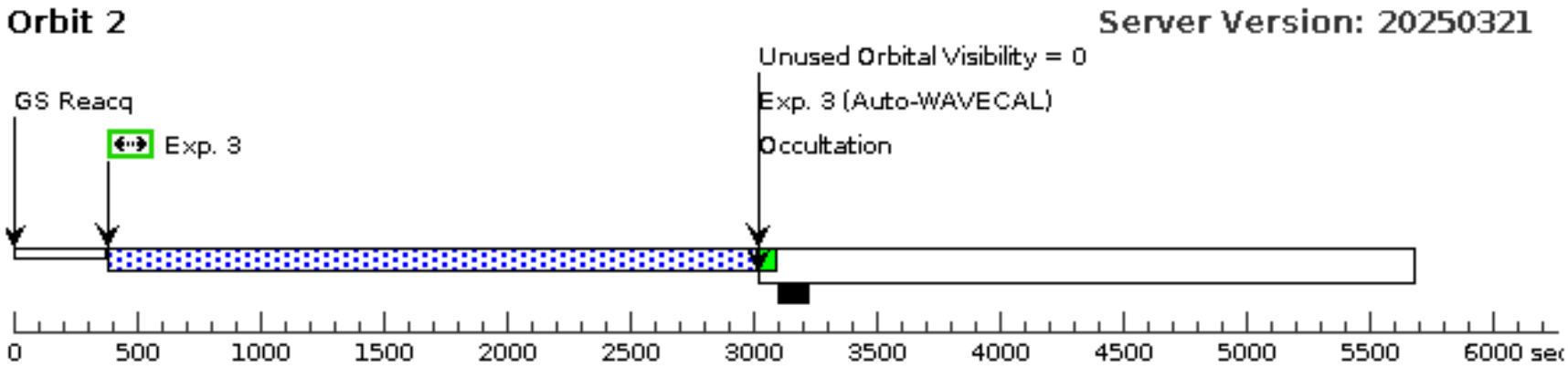
Comments:
Category=GALAXY
Description=[NUCLEUS]

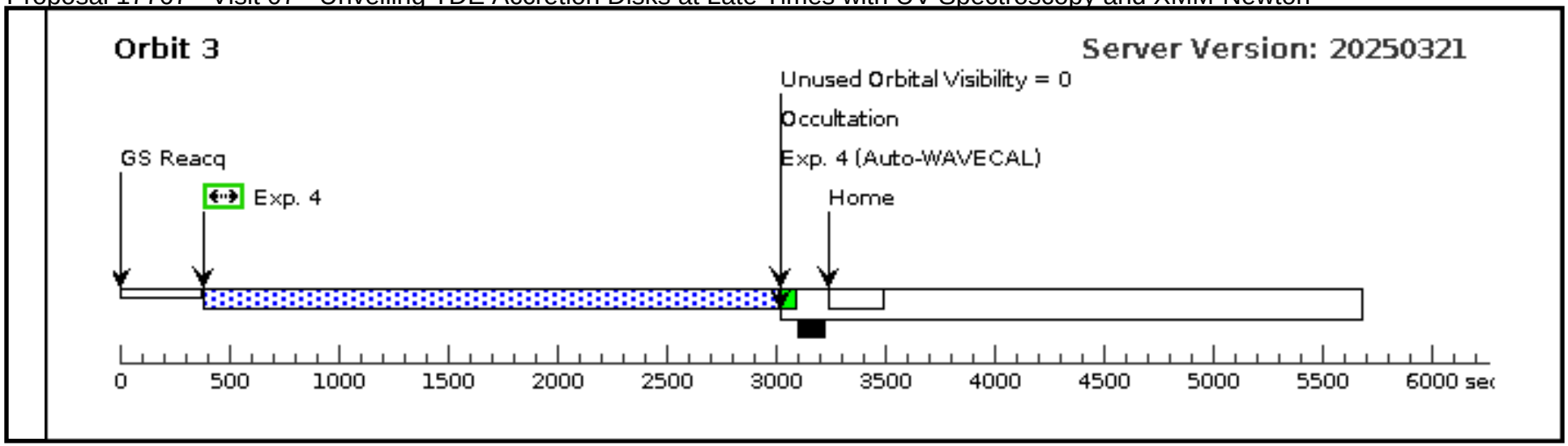
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(STIS.ta.2020106)	(7) AT2024AEPD	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=13; DIFFUSE-CENTER=FLUX-CENTROID			50 Secs (50 Secs) *[==>]*	***[1]***
2	(STIS.sp.2020107)	(7) AT2024AEPD	STIS/FUV-MAMA, ACCUM, 52X0.2D1	G140L 1425 A				1500 Secs (1936 Secs) *[==>1936.0 Secs]*	***[1]***
3	(STIS.sp.2020107)	(7) AT2024AEPD	STIS/FUV-MAMA, ACCUM, 52X0.2D1	G140L 1425 A				2000 Secs (2615 Secs) *[==>2615.0 Secs]*	***[2]***
4	(STIS.sp.2020107)	(7) AT2024AEPD	STIS/FUV-MAMA, ACCUM, 52X0.2D1	G140L 1425 A				2000 Secs (2615 Secs) *[==>2615.0 Secs]*	***[3]***

Orbit Structure






Orbit 3
Server Version: 20250321
Unused Orbital Visibility = 0
Occultation
Exp. 4 (Auto-WAVECAL)
GS Reacq
Exp. 4
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17767, Visit 08, implementation Tue Jun 24 14:00:24 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/NUV-MAMA, STIS/CCD

Special Requirements: TOO RESPONSE TIME 30.0D

Fixed Targets

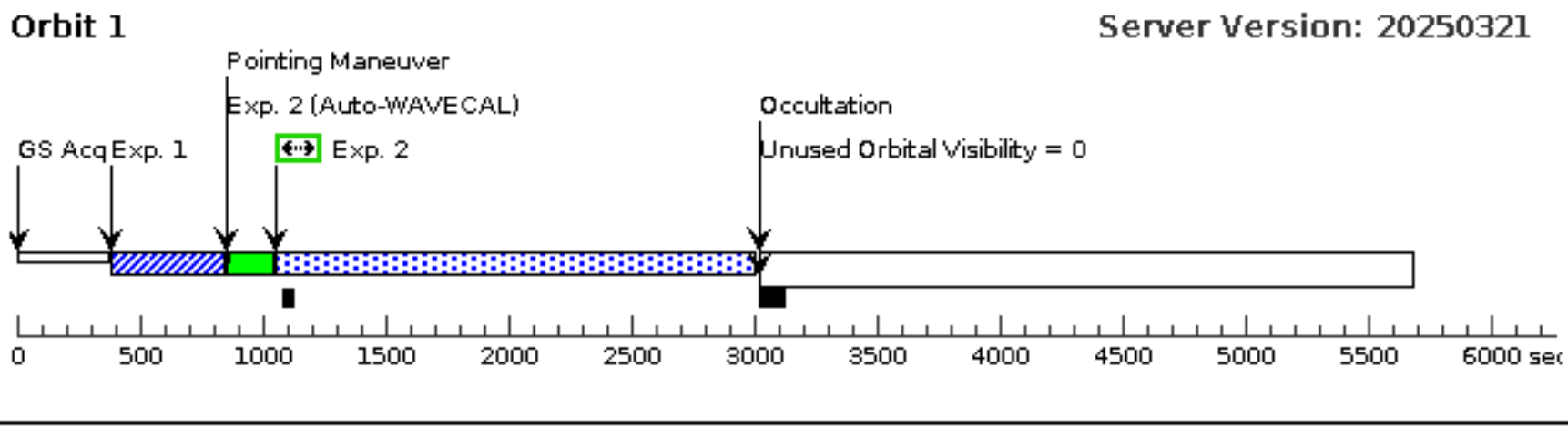
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	AT2024AEPD	RA: 15 25 39.3000 (231.4137500d) Dec: +17 40 50.38 (17.68066d) Equinox: J2000		V=20	Reference Frame: ICRS

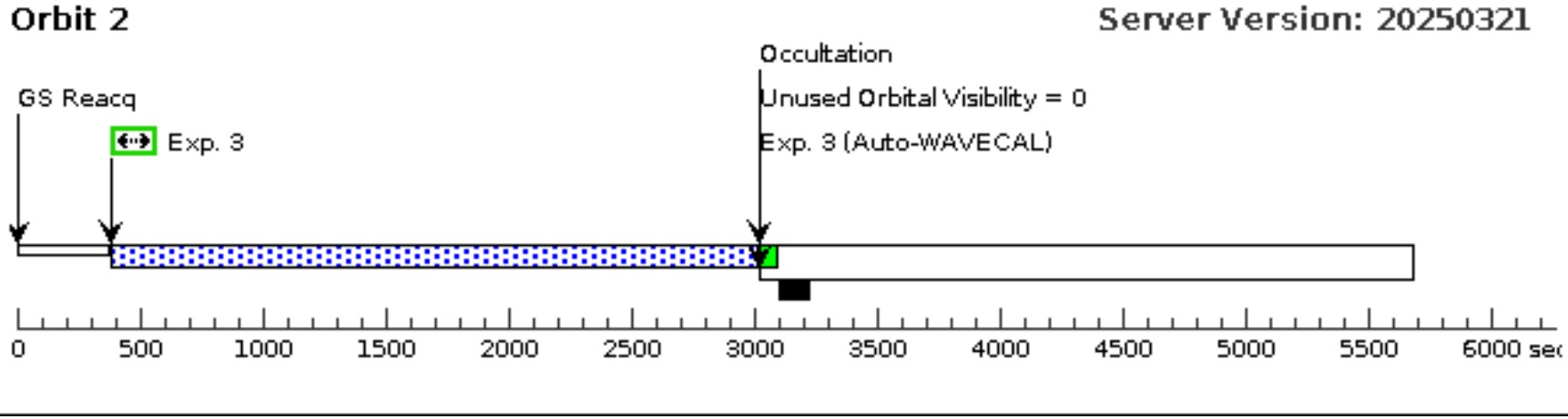
Comments:
Category=GALAXY
Description=[NUCLEUS]

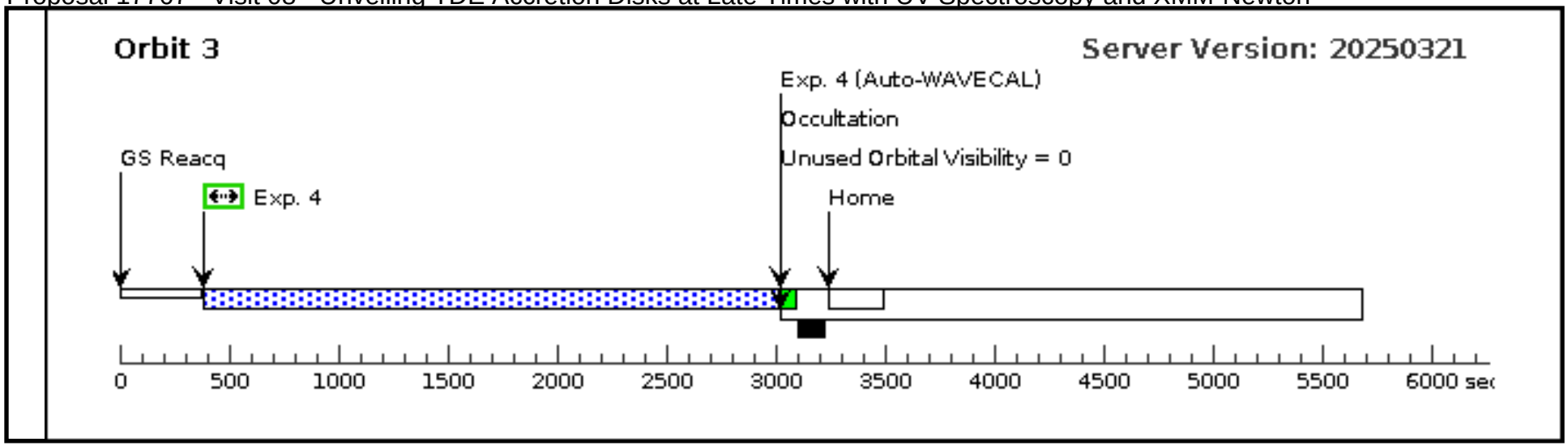
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(STIS.ta.2020106)	(7) AT2024AEPD	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=13; DIFFUSE-CENTER=FLUX-CENTROID			50 Secs (50 Secs) *[==>]*	***[1]***
2	(STIS.sp.2020108)	(7) AT2024AEPD	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				1500 Secs (1936 Secs) *[==>1936.0 Secs]*	***[1]***
3	(STIS.sp.2020108)	(7) AT2024AEPD	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2000 Secs (2615 Secs) *[==>2615.0 Secs]*	***[2]***
4	(STIS.sp.2020108)	(7) AT2024AEPD	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2000 Secs (2615 Secs) *[==>2615.0 Secs]*	***[3]***

Orbit Structure






Orbit 3
Server Version: 20250321
Exp. 4 (Auto-WAVECAL)
Occultation
Unused Orbital Visibility = 0
GS Reacq
Exp. 4
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17767, Visit 09, implementation Tue Jun 24 14:00:24 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA

Special Requirements: TOO RESPONSE TIME 30.0D

Fixed Targets

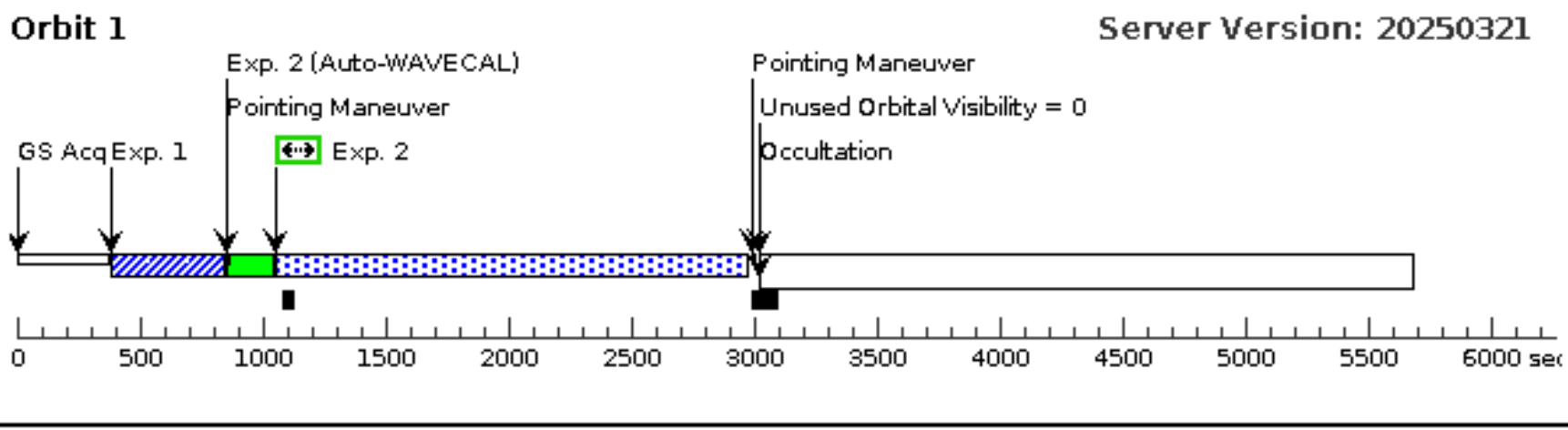
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	AT2024AEPD	RA: 15 25 39.3000 (231.4137500d) Dec: +17 40 50.38 (17.68066d) Equinox: J2000		V=20	Reference Frame: ICRS

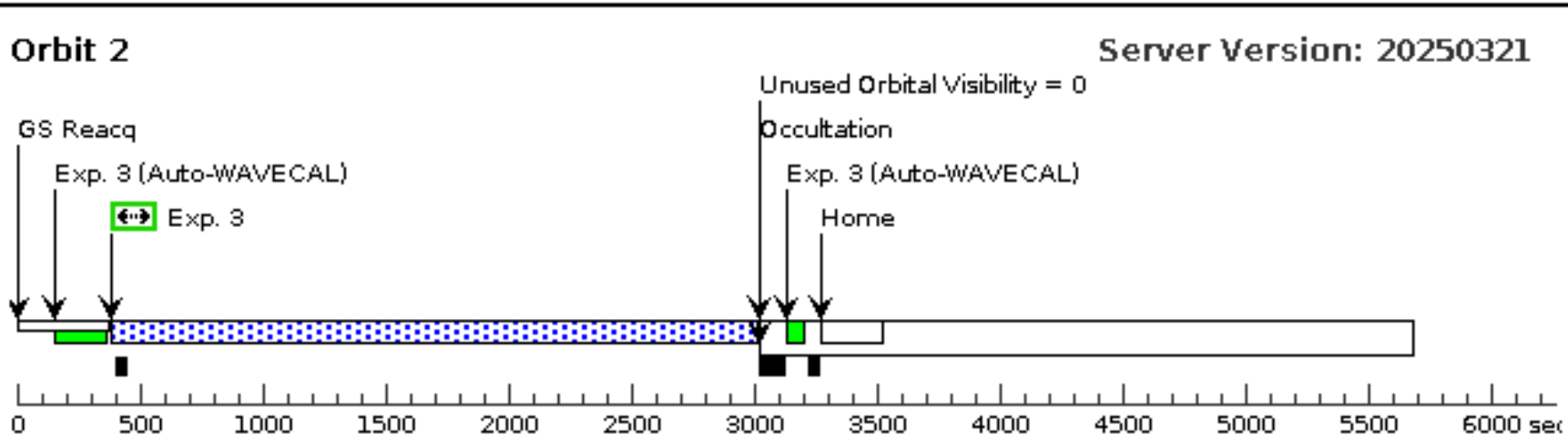
Comments:
Category=GALAXY
Description=[NUCLEUS]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(STIS.ta.2020106)	(7) AT2024AEPD	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=13; DIFFUSE-CENTER=FLUX-CENTROID			50 Secs (50 Secs) *[==>]*	***[1]***
2	(STIS.sp.2020108)	(7) AT2024AEPD	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				1500 Secs (1908 Secs) *[==>1908.0 Secs]*	***[1]***
3	(STIS.sp.2020107)	(7) AT2024AEPD	STIS/FUV-MAMA, ACCUM, 52X0.2D1	G140L 1425 A				2000 Secs (2615 Secs) *[==>2615.0 Secs]*	***[2]***

Orbit Structure





Visit

Proposal 17767, Visit 10

Tue Jun 24 14:00:24 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/NUV-MAMA, STIS/CCD

Special Requirements: (none)

Fixed Targets

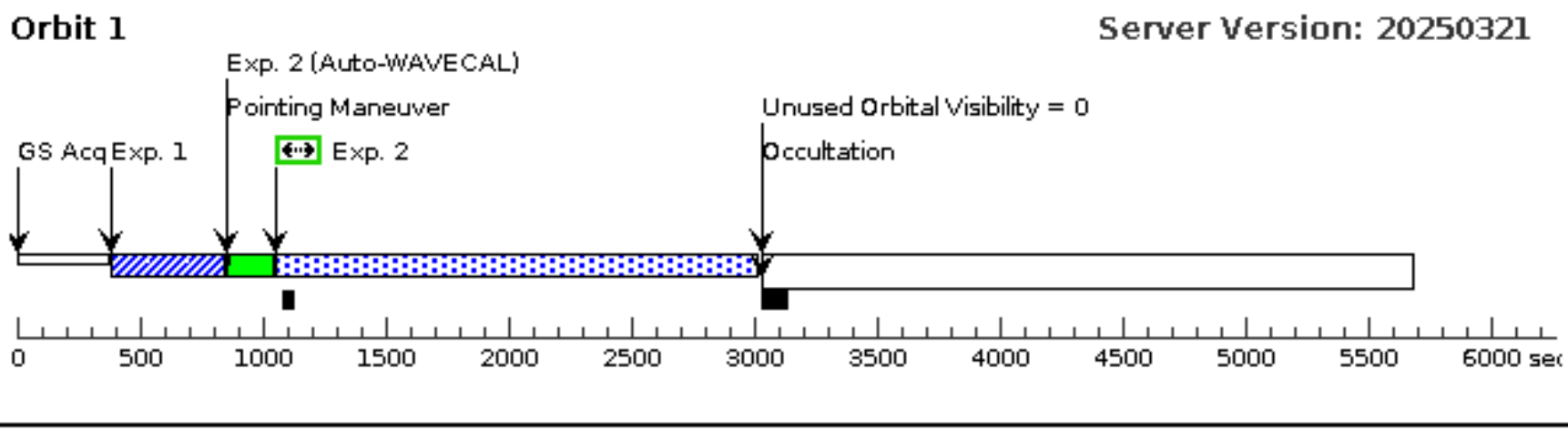
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	AT2024LHC	RA: 16 50 54.1500 (252.7256250d) Dec: +32 52 36.20 (32.87672d) Equinox: J2000		V=20	Reference Frame: ICRS

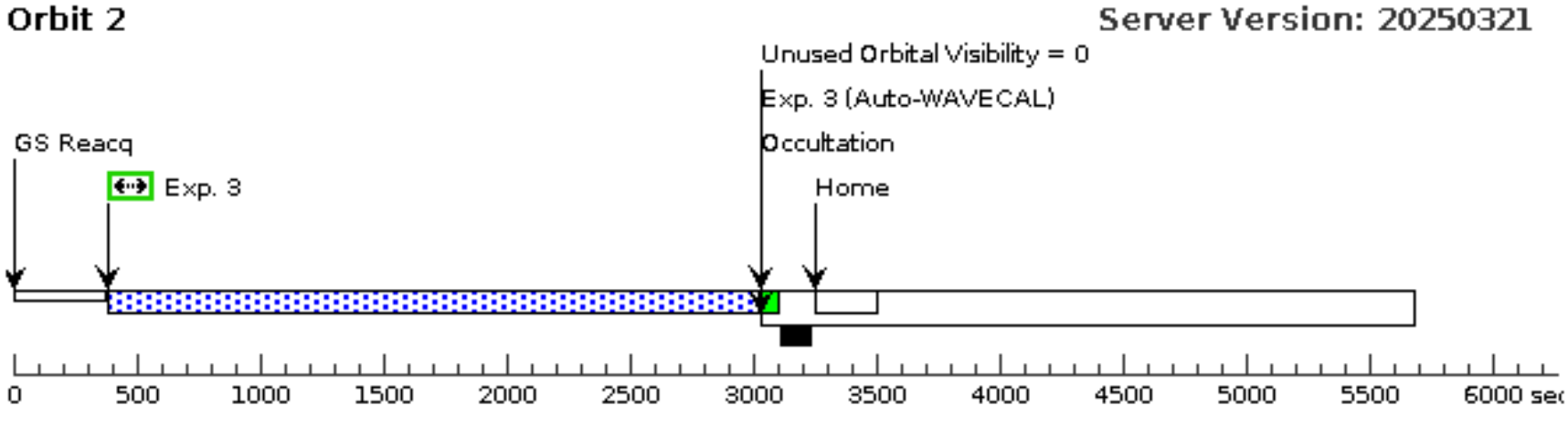
Comments: Point source transient on top of r~18th mag host
Category=GALAXY
Description=[NUCLEUS]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(STIS.ta.2020671)	(6) AT2024LHC	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=13; DIFFUSE-CENTER=FLUX-CENTROID			50 Secs (50 Secs) *[==>]*	 ***[1]***
2	(STIS.sp.2020673)	(6) AT2024LHC	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				1500 Secs (1947 Secs) *[==>1947.0 Secs]*	 ***[1]***
3	(STIS.sp.2020673)	(6) AT2024LHC	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2000 Secs (2626 Secs) *[==>2626.0 Secs]*	 ***[2]***

Orbit Structure





Visit

Proposal 17767, Visit 11 Tue Jun 24 14:00:24 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	AT2024LHC	RA: 16 50 54.1500 (252.7256250d) Dec: +32 52 36.20 (32.87672d) Equinox: J2000		V=20	Reference Frame: ICRS

Comments: Point source transient on top of r~18th mag host
Category=GALAXY
Description=[NUCLEUS]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(STIS.ta.2020671)	(6) AT2024LHC	STIS/CCD, ACQ, F28X50LP	MIRROR				50 Secs (50 Secs) *[==>]*	 ***[1]***
2	(STIS.sp.2020673)	(6) AT2024LHC	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				1500 Secs (1957 Secs) *[==>1957.0 Secs]*	 ***[1]***
3	(STIS.sp.2020672)	(6) AT2024LHC	STIS/FUV-MAMA, ACCUM, 52X0.2D1	G140L 1425 A				2000 Secs (2626 Secs) *[==>2626.0 Secs]*	 ***[2]***

Orbit Structure