18049 - Multi-Epoch UV Spectroscopy of Young Tidal Disruption Events

Cycle: 33, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(4) TDE2025AARM	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	21-Apr-2026 16:00:14.0	yes
02	(5) TDE2026HDO	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	21-Apr-2026 16:00:15.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
03	(3) INFANT-TDE3	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	21-Apr-2026 16:00:16.0	yes
04	(4) TDE2025AARM	STIS/CCD STIS/NUV-MAMA	2	21-Apr-2026 16:00:16.0	yes
05	(4) TDE2025AARM	STIS/CCD STIS/FUV-MAMA	2	21-Apr-2026 16:00:16.0	yes
06	(5) TDE2026HDO	STIS/CCD STIS/NUV-MAMA	2	21-Apr-2026 16:00:17.0	yes
07	(5) TDE2026HDO	STIS/CCD STIS/FUV-MAMA	2	21-Apr-2026 16:00:17.0	yes
08	(3) INFANT-TDE3	STIS/CCD STIS/NUV-MAMA	2	21-Apr-2026 16:00:18.0	yes
09	(3) INFANT-TDE3	STIS/CCD STIS/FUV-MAMA	2	21-Apr-2026 16:00:18.0	yes
10	(4) TDE2025AARM	STIS/CCD STIS/NUV-MAMA	2	21-Apr-2026 16:00:19.0	yes
11	(4) TDE2025AARM	STIS/CCD STIS/FUV-MAMA	2	21-Apr-2026 16:00:19.0	yes
12	(5) TDE2026HDO	STIS/CCD STIS/NUV-MAMA	2	21-Apr-2026 16:00:19.0	yes
13	(5) TDE2026HDO	STIS/CCD STIS/FUV-MAMA	2	21-Apr-2026 16:00:20.0	yes
14	(3) INFANT-TDE3	STIS/CCD STIS/NUV-MAMA	2	21-Apr-2026 16:00:20.0	yes
15	(3) INFANT-TDE3	STIS/CCD STIS/FUV-MAMA	2	21-Apr-2026 16:00:21.0	yes

30 Total Orbits Used

ABSTRACT

When a star wanders too close to a supermassive black hole (SMBH), it can be torn apart by the tidal forces it experiences. This process can create luminous flares of radiation across the electromagnetic spectrum, and spark a multitude of phenomena such as outflows and jets. Despite predictions that these transients would be primarily X-ray ones, in recent years most tidal disruption events (TDEs) have been discovered in the optical/UV with no consensus on the origin of this emission. These large samples of TDEs can be used to probe the SMBH mass function to great distances and smaller masses, as the timing of the optical/UV light curve can be used to weigh the SMBH and probe its spin. This is only possible if we can understand the origin of the optical/UV emission.

With this Cycle 33 program, we propose to observe a sample of young TDEs discovered before peak using STIS to obtain UV spectra. The UV spectra can probe the existence, evolution, and properties of outflows. By observing the evolution of outflows from pre-to-post-peak in TDEs, we can test the models for the optical/UV emission and thereby making great strides toward the goal of using TDEs as indepedent probes of SMBH properties. This goal is especially pressing in the era of upcoming, wide-field surveys and NASA missions which will discover hundreds to thousands of new TDEs.

OBSERVING DESCRIPTION

This proposal consists of three disruptive STIS ToO observations 3 different infant tidal disruption events (TDEs), each followed by two additional epochs of observations spaced by ~30 days and ~90 days after the first trigger.

Each trigger will be for a TDE that is spectroscopically confirmed and has a rising optical light curve.

Each object will have the following epochs, which amount to a total of 10 orbits for each object:
- first epoch: 2 orbits, the first using the STIS/NUV-MAMA using G230L; the second using the STIS/FUV-MAMA and G140L; both with the 52x0.2 aperture
- second epoch (~30 days after first epoch): one visit with 2 orbits using the STIS/NUV-MAMA using G230L; another visit of 2 orbits executed within a day of the NUV visit using the STIS/FUV-MAMA and G140L; both with the 52x0.2 aperture
- third epoch (~90 days after first epoch): one visit with 2 orbits using the STIS/NUV-MAMA using G230L; another visit of 2 orbits executed within a day of the NUV visit using the STIS/FUV-MAMA and G140L; both with the 52x0.2 aperture

Each visit requires an ACQ in the first orbit. As these are ToO 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 in the nucleus of redder galaxy. 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, but we have provided ETC calculations based off a sample target.

A ToO Activation on INFANT-TDE1 should activate Visit 01, Visits 04 and 05 ~30 days later, and Visits 10 and 11 ~90 days after Visit 01.
A ToO Activation on INFANT-TDE2 should activate Visit 02, Visits 06 and 07 ~30 days later, and Visits 12 and 13 ~90 days after Visit 02.
A ToO Activation on INFANT-TDE3 should activate Visit 03, Visits 08 and 09 ~30 days later, and Visits 14 and 15 ~90 days after Visit 03.

Visit

Proposal 18049, TDE1 Epoch 1 (01), completed Tue Apr 21 20:00:21 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: TOO RESPONSE TIME 7.0D

Fixed Targets

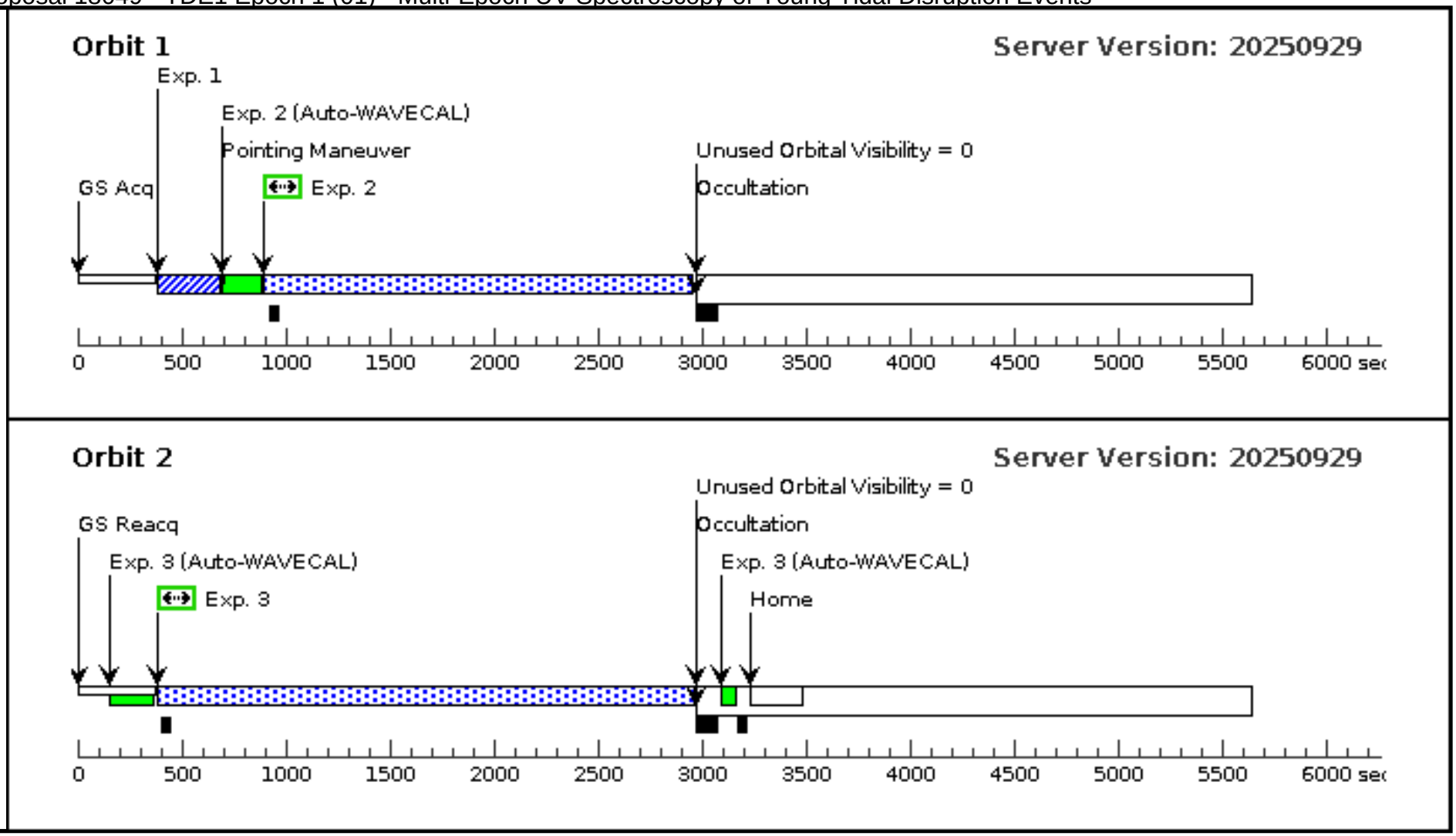
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	TDE2025AARM	RA: 04 32 12.3900 (68.0516250d) Dec: -05 22 39.59 (-5.37766d) Equinox: J2000	Epoch of Position: 2000	V=16+/-1	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[ACCRETION DISK, NUCLEUS]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Target Acquisition (STIS.ta.2224911)	(4) TDE2025AARM	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; DIFFUSE-CENTER=FLUX-CENTROID; CHECKBOX=13			10 Secs (10 Secs) *[==>]*	 ***[1]***
2	NUV (STIS.sp.1426491)	(4) TDE2025AARM	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2160 Secs (2050 Secs) *[==>2050.0 Secs]*	 ***[1]***
3	FUV (STIS.sp.1426499)	(4) TDE2025AARM	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				2640 Secs (2569 Secs) *[==>2569.0 Secs]*	 ***[2]***

Orbit Structure



Visit

Proposal 18049, TDE2 Epoch 1 (02), completed Tue Apr 21 20:00:22 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: TOO RESPONSE TIME 7.0D

Fixed Targets

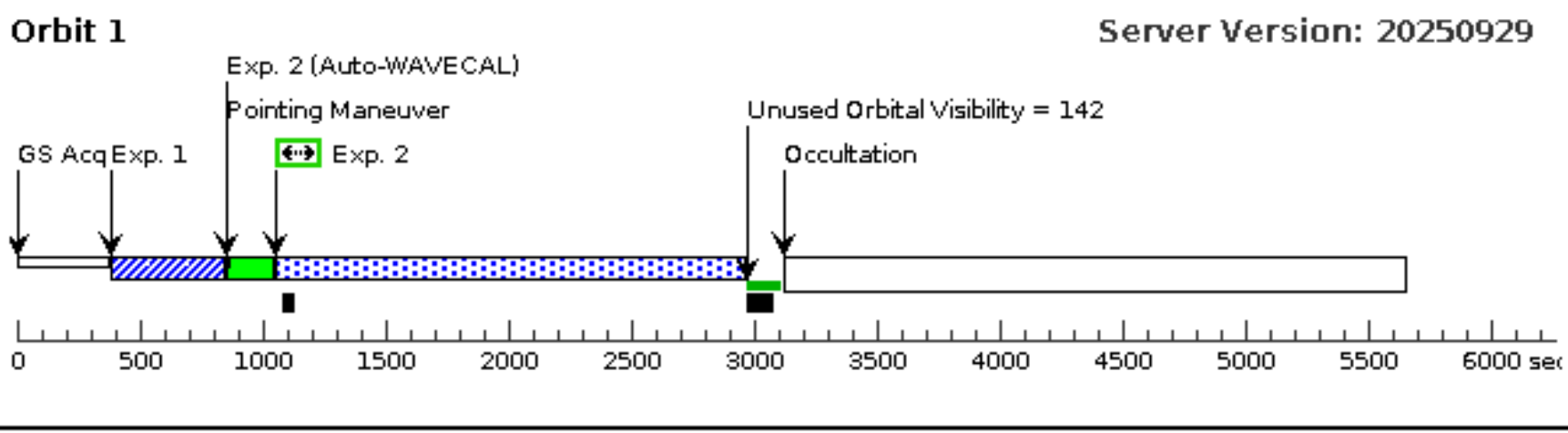
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	TDE2026HDO	RA: 10 31 52.6500 (157.9693750d) Dec: +73 58 5.68 (73.96824d) Equinox: J2000	Epoch of Position: 2000	V=19.5+/-0.5	Reference Frame: ICRS

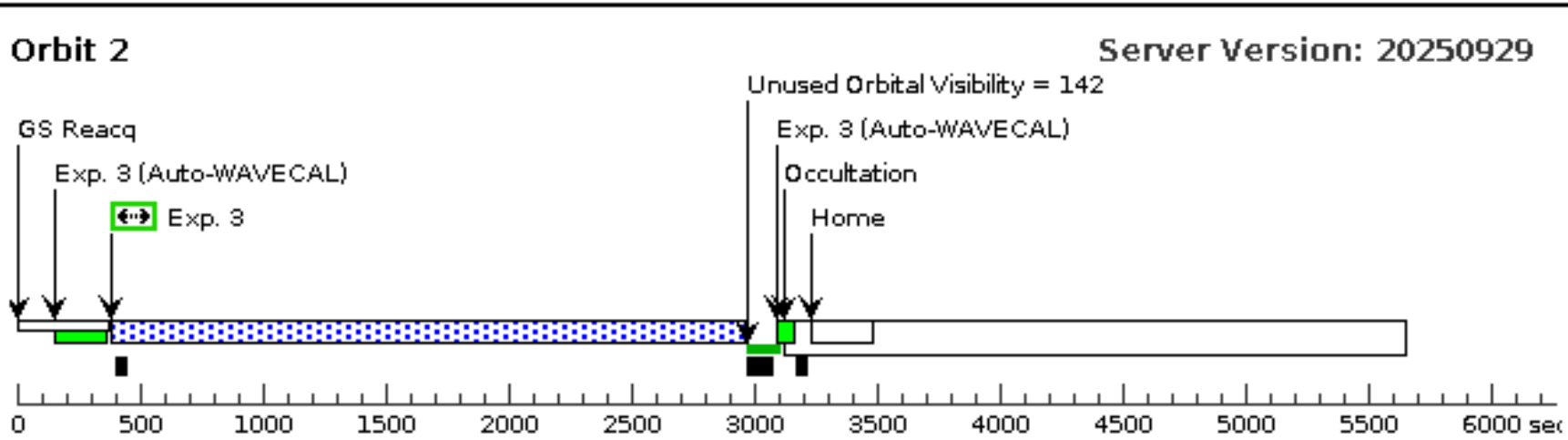
Comments: The source is currently on the rise, so will likely be brighter by the time of observation.
Category=GALAXY
Description=[ACCRETION DISK, NUCLEUS]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Target Acquisition (STIS.ta.2294977)	(5) TDE2026HDO	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; DIFFUSE-CENTER=FLUX-CENTROID; CHECKBOX=13			50 Secs (50 Secs) *[==>]*	***[1]***
2	NUV (STIS.sp.2294979)	(5) TDE2026HDO	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2160 Secs (1892 Secs) *[==>1892.0 Secs]*	***[1]***
3	FUV (STIS.sp.2294981)	(5) TDE2026HDO	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				2640 Secs (2571 Secs) *[==>2571.0 Secs]*	***[2]***

Orbit Structure





Visit

Proposal 18049, TDE3 Epoch 1 (03), implementation Tue Apr 21 20:00:22 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: TOO RESPONSE TIME 7.0D

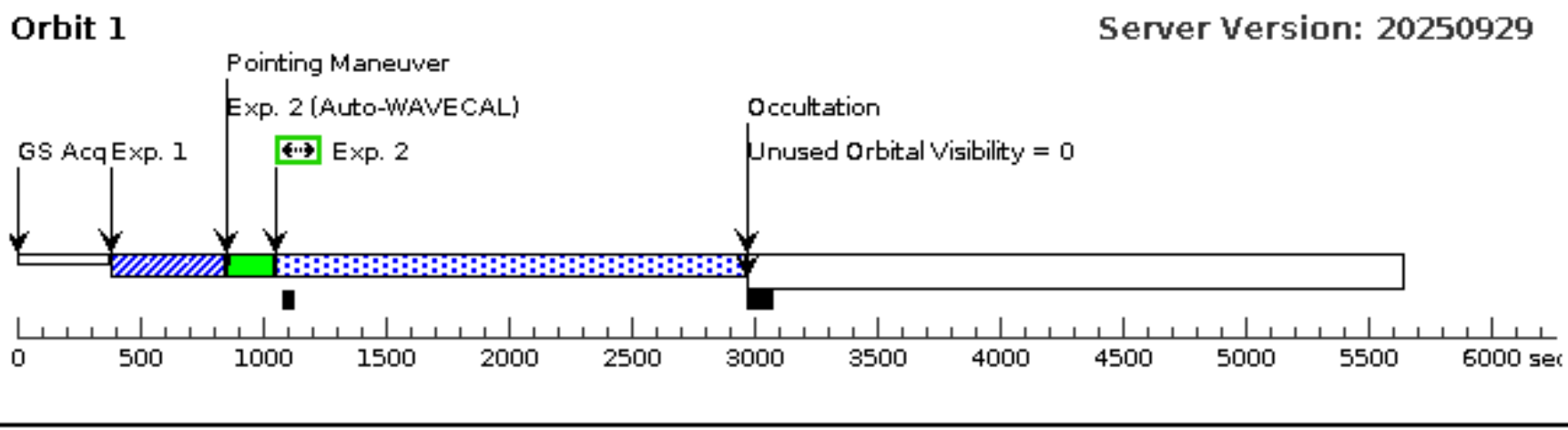
Generic Targets

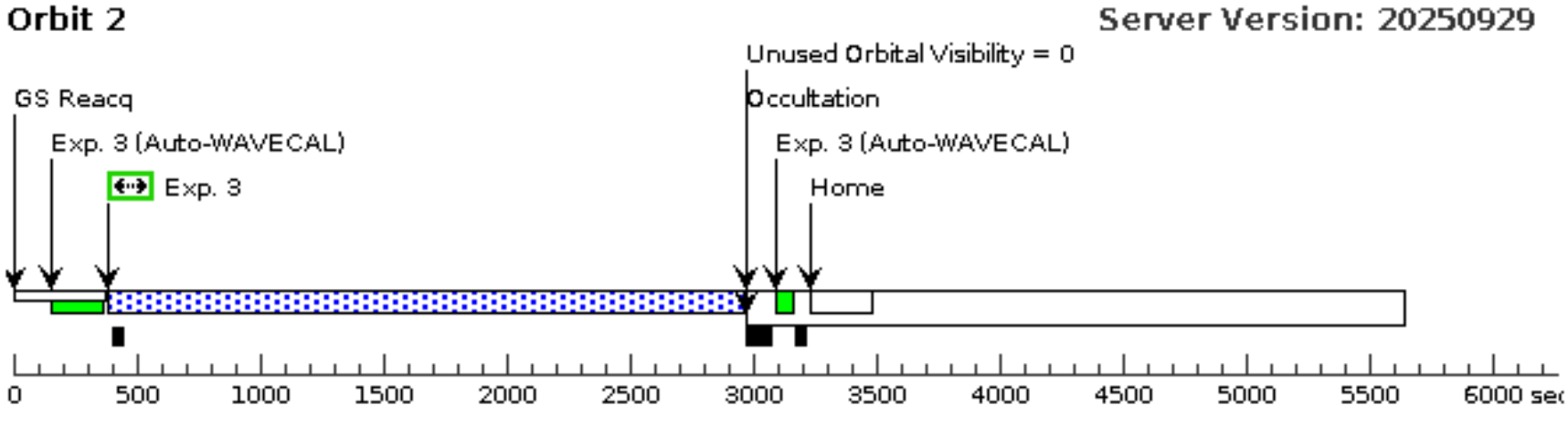
#	Name	Criteria	Description
(3)	INFANT-TDE3	Spectroscopically confirmed TDE with rising optical light curve	ACCRETION DISK NUCLEUS WIND

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Target Acquisition	(3) INFANT-TDE3	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; DIFFUSE-CENTER=FLUX-CENTROID; CHECKBOX=13			50 Secs (50 Secs) *[==>]*	***[1]***
2	NUV (STIS.sp.14 26491)	(3) INFANT-TDE3	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2160 Secs (1892 Secs) *[==>1892.0 Secs]*	***[1]***
3	FUV (STIS.sp.14 26499)	(3) INFANT-TDE3	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				2640 Secs (2571 Secs) *[==>2571.0 Secs]*	***[2]***

Orbit Structure





Visit

Proposal 18049, TDE1 Epoch 2 NUV (04), implementation Tue Apr 21 20:00:22 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: AFTER_01 BY 270 D TO 290 D; SEQ 04,05 WITHIN 1 D; TOO RESPONSE TIME 25.0D

Fixed Targets

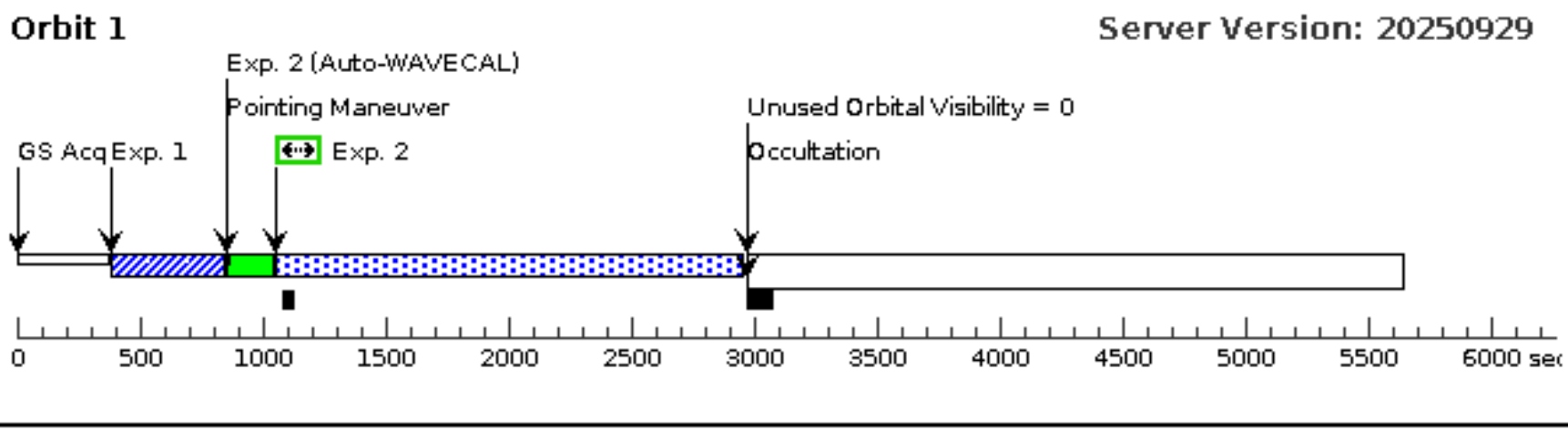
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	TDE2025AARM	RA: 04 32 12.3900 (68.0516250d) Dec: -05 22 39.59 (-5.37766d) Equinox: J2000	Epoch of Position: 2000	V=16+/-1	Reference Frame: ICRS

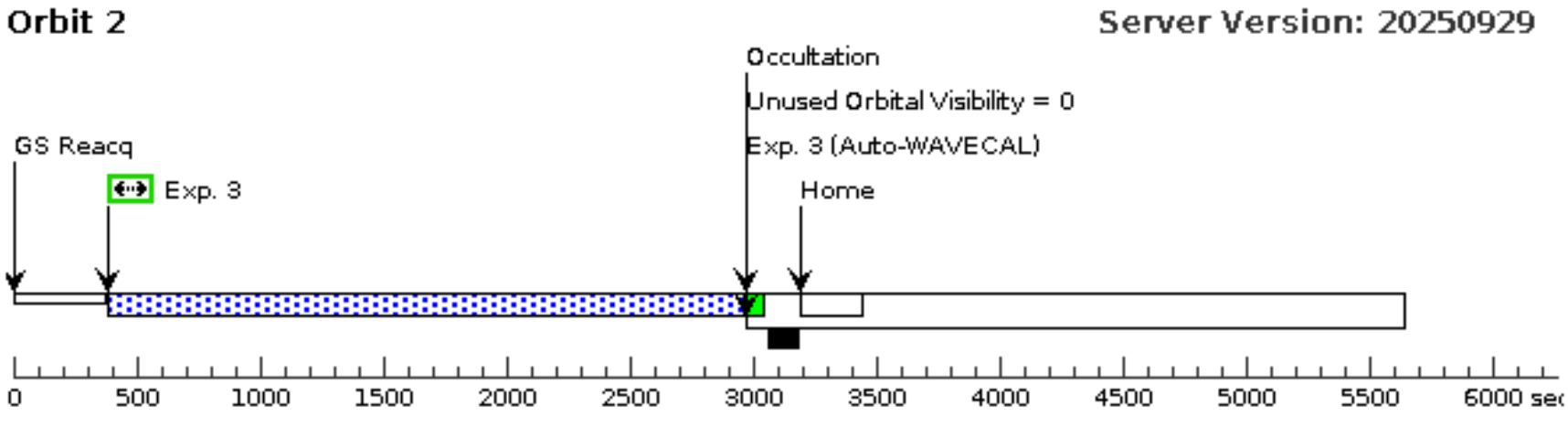
Comments:
Category=GALAXY
Description=[ACCRETION DISK, NUCLEUS]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Target Acquisition	(4) TDE2025AARM	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=13; DIFFUSE-CENTER=FLUX-CENTROID			50 Secs (50 Secs) *[==>]*	 ***[1]***
2	NUV (STIS.sp.1426574)	(4) TDE2025AARM	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2160 Secs (1890 Secs) *[==>1890.0 Secs]*	 ***[1]***
3	NUV (STIS.sp.1426574)	(4) TDE2025AARM	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2640 Secs (2569 Secs) *[==>2569.0 Secs]*	 ***[2]***

Orbit Structure





Visit

Proposal 18049, TDE1 Epoch 2 FUV (05), implementation Tue Apr 21 20:00:22 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: AFTER_01 BY 270 D TO 290 D; SEQ 04,05 WITHIN 7 D; TOO RESPONSE TIME 25.0D

Fixed Targets

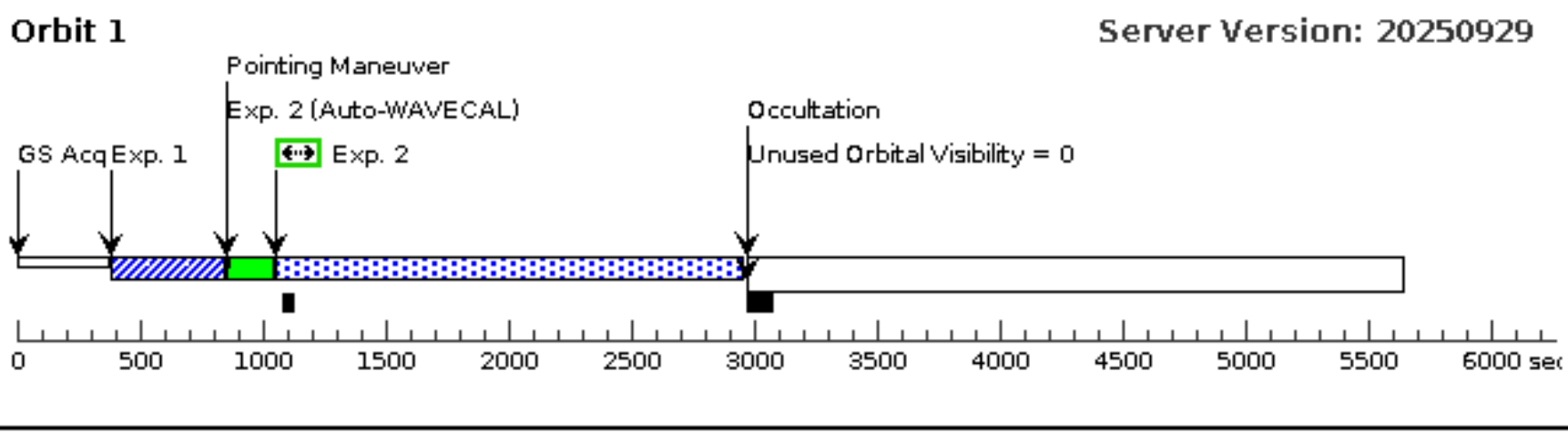
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	TDE2025AARM	RA: 04 32 12.3900 (68.0516250d) Dec: -05 22 39.59 (-5.37766d) Equinox: J2000	Epoch of Position: 2000	V=16+/-1	Reference Frame: ICRS

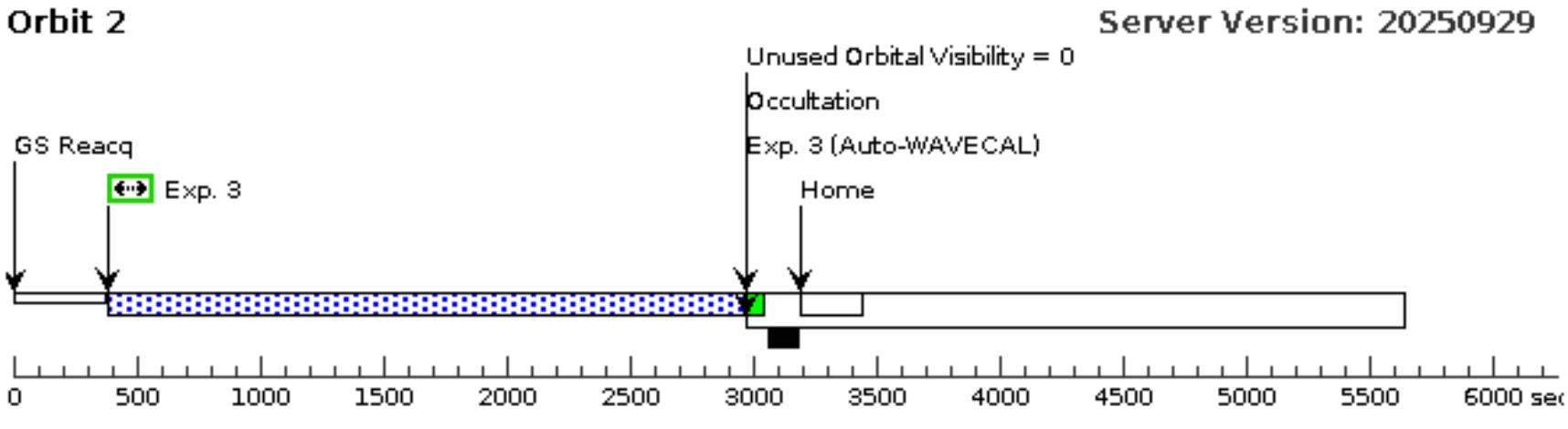
Comments:
Category=GALAXY
Description=[ACCRETION DISK, NUCLEUS]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Target Acquisition	(4) TDE2025AARM	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=13; DIFFUSE-CENTER=FLUX-CENTROID			50 Secs (50 Secs) *[==>]*	 ***[1]***
2	FUV (STIS.sp.14 26581)	(4) TDE2025AARM	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				2160 Secs (1890 Secs) *[==>1890.0 Secs]*	 ***[1]***
3	FUV (STIS.sp.14 26581)	(4) TDE2025AARM	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				2640 Secs (2569 Secs) *[==>2569.0 Secs]*	 ***[2]***

Orbit Structure





Visit

Proposal 18049, TDE2 Epoch 2 NUV (06), implementation Tue Apr 21 20:00:22 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: BETWEEN 15-MAY-2026 AND 25-MAY-2026; SEQ 06,07 WITHIN 7 D; TOO RESPONSE TIME 25.0D

Fixed Targets

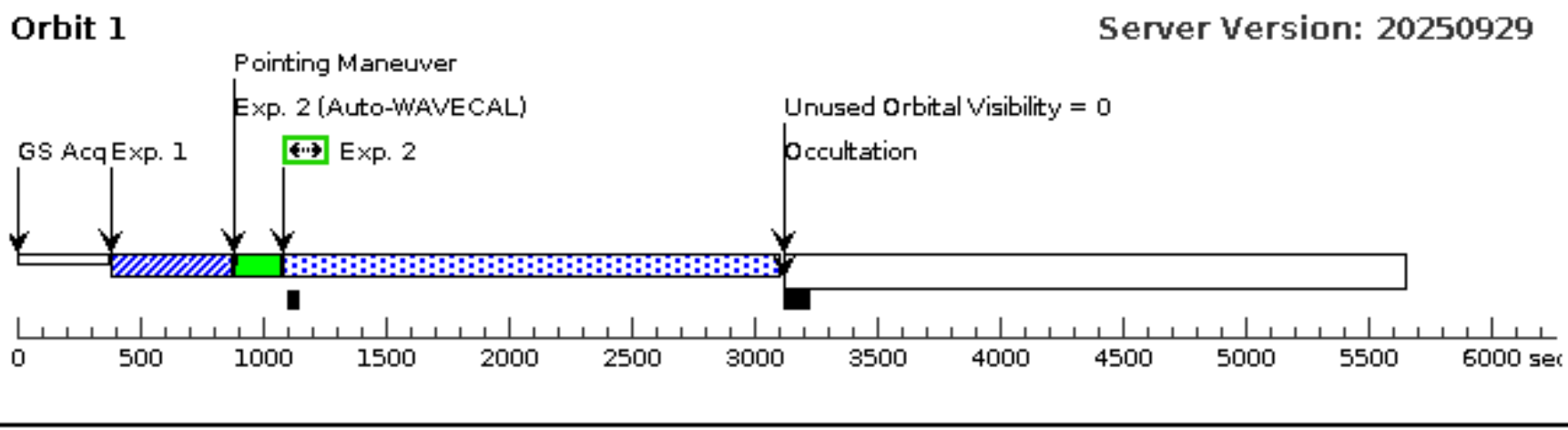
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	TDE2026HDO	RA: 10 31 52.6500 (157.9693750d) Dec: +73 58 5.68 (73.96824d) Equinox: J2000	Epoch of Position: 2000	V=19.5+/-0.5	Reference Frame: ICRS

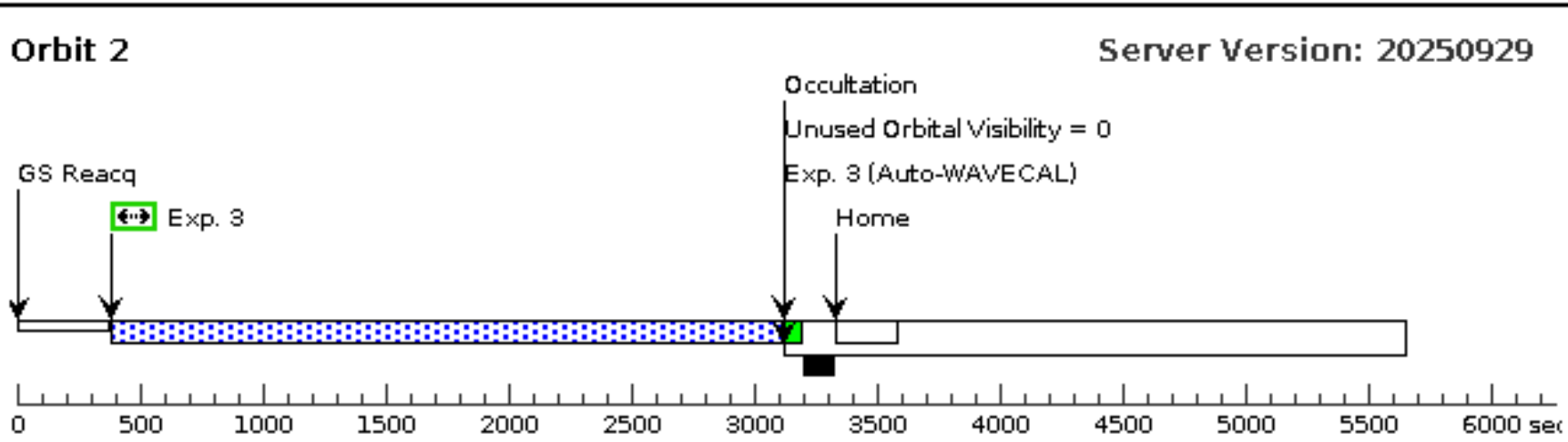
Comments: The source is currently on the rise, so will likely be brighter by the time of observation.
Category=GALAXY
Description=[ACCRETION DISK, NUCLEUS]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Target Acquisition (STIS.ta.2330336)	(5) TDE2026HDO	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=13; DIFFUSE-CENTER=FLUX-CENTROID			57 Secs (57 Secs) *[==>]*	***[1]***
2	NUV (STIS.sp.1426574)	(5) TDE2026HDO	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2160 Secs (2006 Secs) *[==>2006.0 Secs]*	***[1]***
3	NUV (STIS.sp.1426574)	(5) TDE2026HDO	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2640 Secs (2713 Secs) *[==>2713.0 Secs]*	***[2]***

Orbit Structure





Visit

Proposal 18049, TDE2 Epoch 2 FUV (07), implementation Tue Apr 21 20:00:22 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: BETWEEN 15-MAY-2026 AND 25-MAY-2026; SEQ 06,07 WITHIN 7 D; TOO RESPONSE TIME 25.0D

Fixed Targets

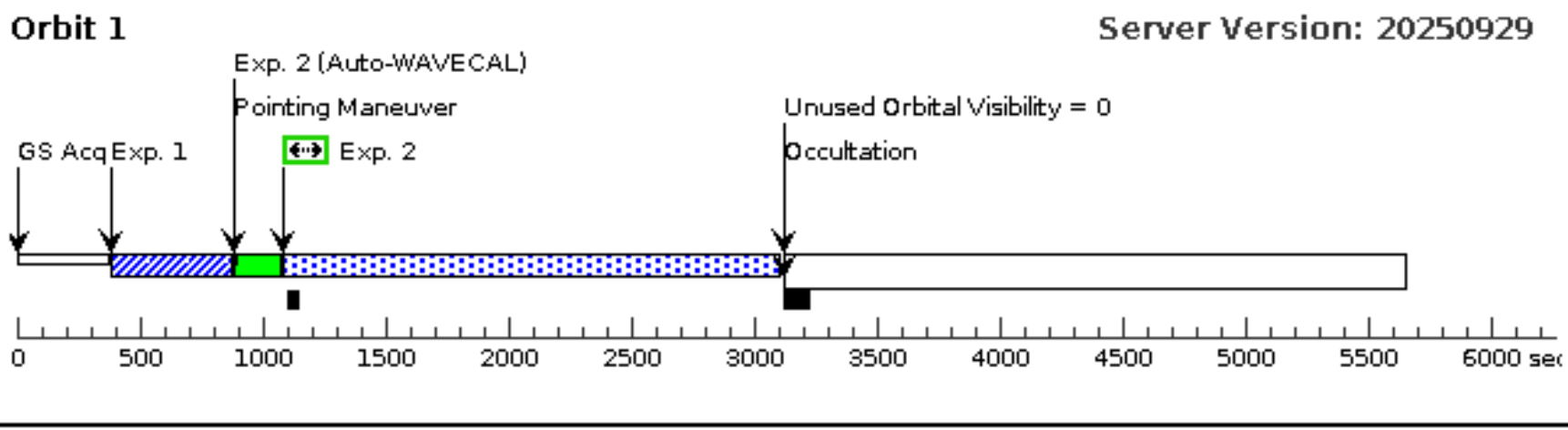
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	TDE2026HDO	RA: 10 31 52.6500 (157.9693750d) Dec: +73 58 5.68 (73.96824d) Equinox: J2000	Epoch of Position: 2000	V=19.5+/-0.5	Reference Frame: ICRS

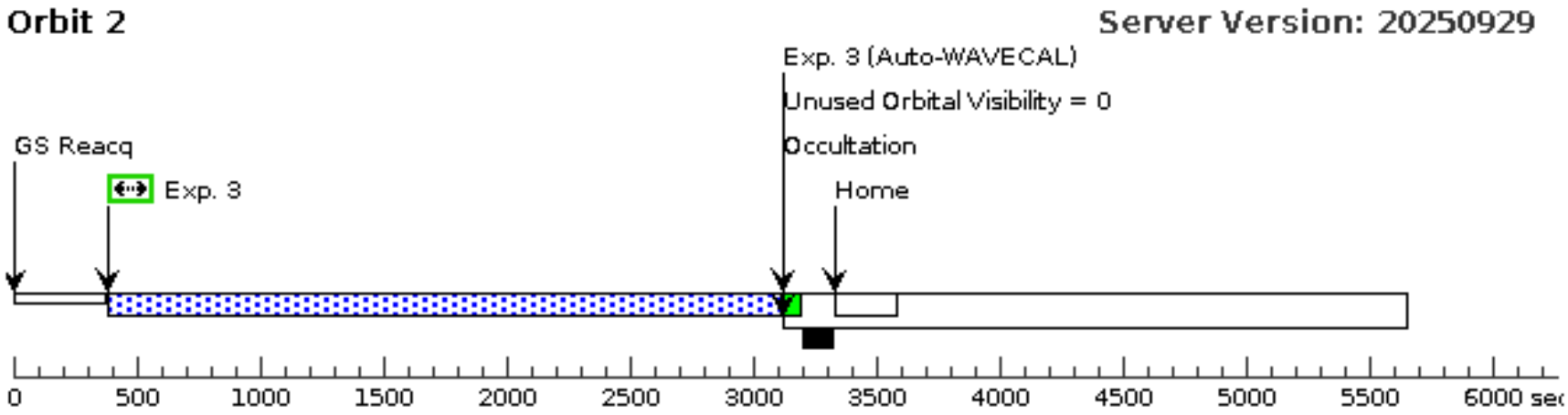
Comments: The source is currently on the rise, so will likely be brighter by the time of observation.
Category=GALAXY
Description=[ACCRETION DISK, NUCLEUS]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Target Acquisition (STIS.ta.2330336)	(5) TDE2026HDO	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=13; DIFFUSE-CENTER=FLUX-CENTROID			57 Secs (57 Secs) *[==>]*	***[1]***
2	FUV (STIS.sp.1426581)	(5) TDE2026HDO	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				2160 Secs (2006 Secs) *[==>2006.0 Secs]*	***[1]***
3	FUV (STIS.sp.1426581)	(5) TDE2026HDO	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				2640 Secs (2713 Secs) *[==>2713.0 Secs]*	***[2]***

Orbit Structure





Visit

Proposal 18049, TDE3 Epoch 2 NUV (08), implementation Tue Apr 21 20:00:22 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: AFTER 03 BY 25 D TO 35 D; SEQ 08,09 WITHIN 1 D; TOO RESPONSE TIME 25.0D

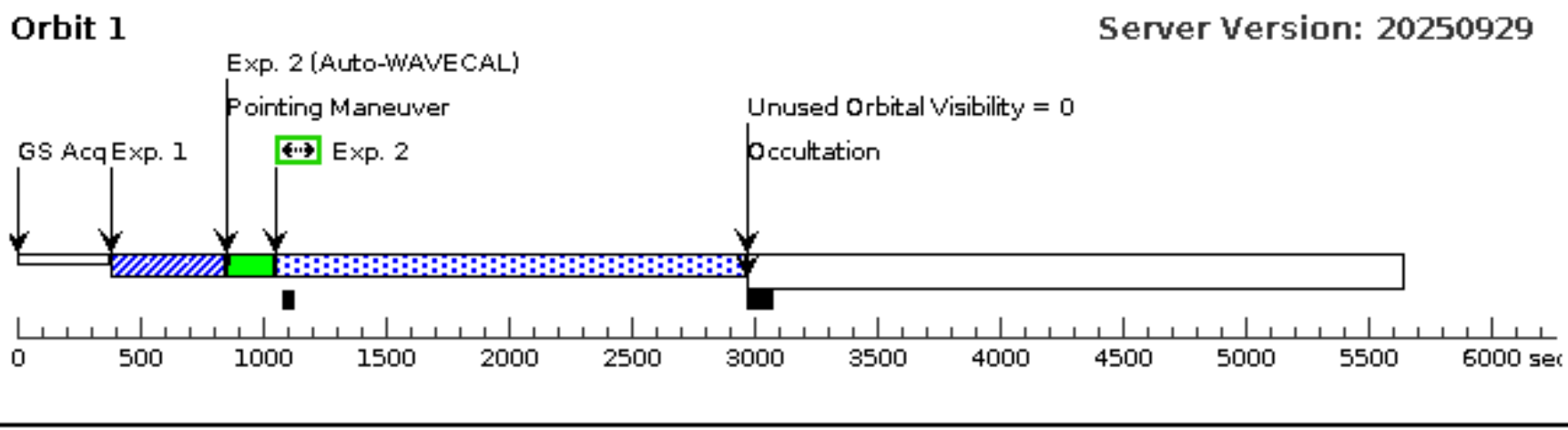
Generic Targets

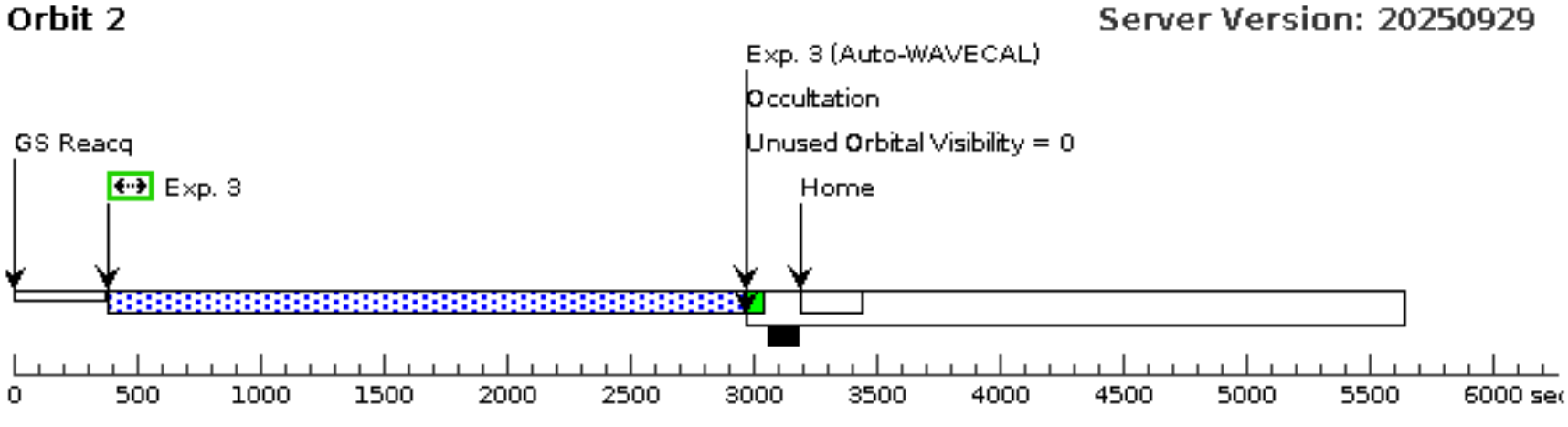
#	Name	Criteria	Description
(3)	INFANT-TDE3	Spectroscopically confirmed TDE with rising optical light curve	ACCRETION DISK NUCLEUS WIND

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Target Acquisition	(3) INFANT-TDE3	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=13; DIFFUSE-CENTER=FLUX-CENTROID			50 Secs (50 Secs) *[==>]*	 ***[1]***
2	NUV (STIS.sp.14 26574)	(3) INFANT-TDE3	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2160 Secs (1892 Secs) *[==>1892.0 Secs]*	 ***[1]***
3	NUV (STIS.sp.14 26574)	(3) INFANT-TDE3	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2640 Secs (2571 Secs) *[==>2571.0 Secs]*	 ***[2]***

Orbit Structure





Visit

Proposal 18049, TDE3 Epoch 2 FUV (09), implementation Tue Apr 21 20:00:22 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: AFTER_03 BY 25 D TO 35 D; SEQ 08,09 WITHIN 1 D; TOO RESPONSE TIME 25.0D

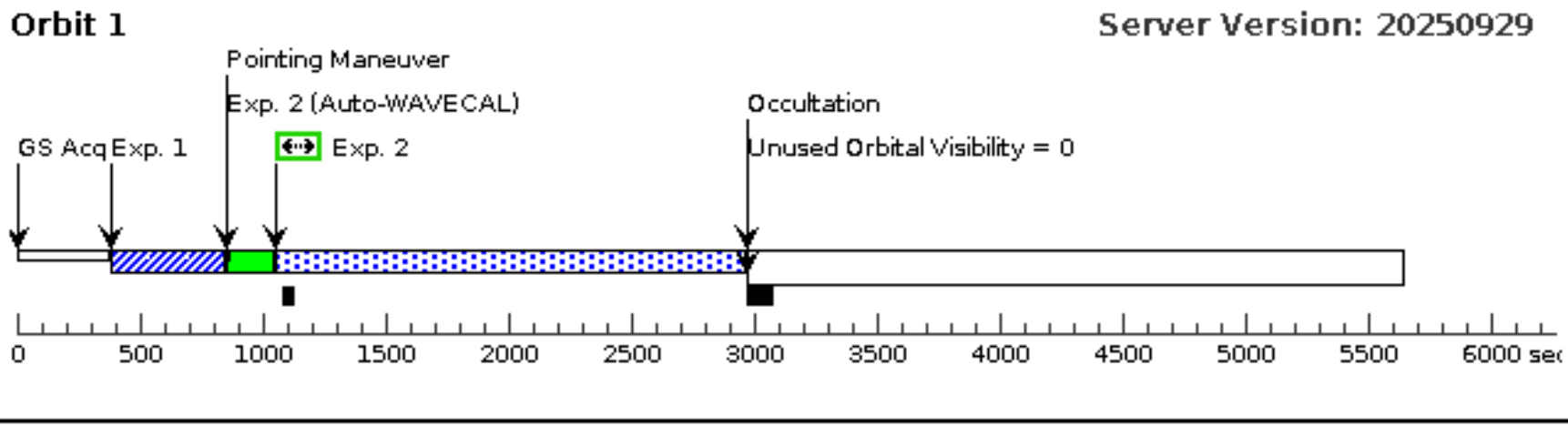
Generic Targets

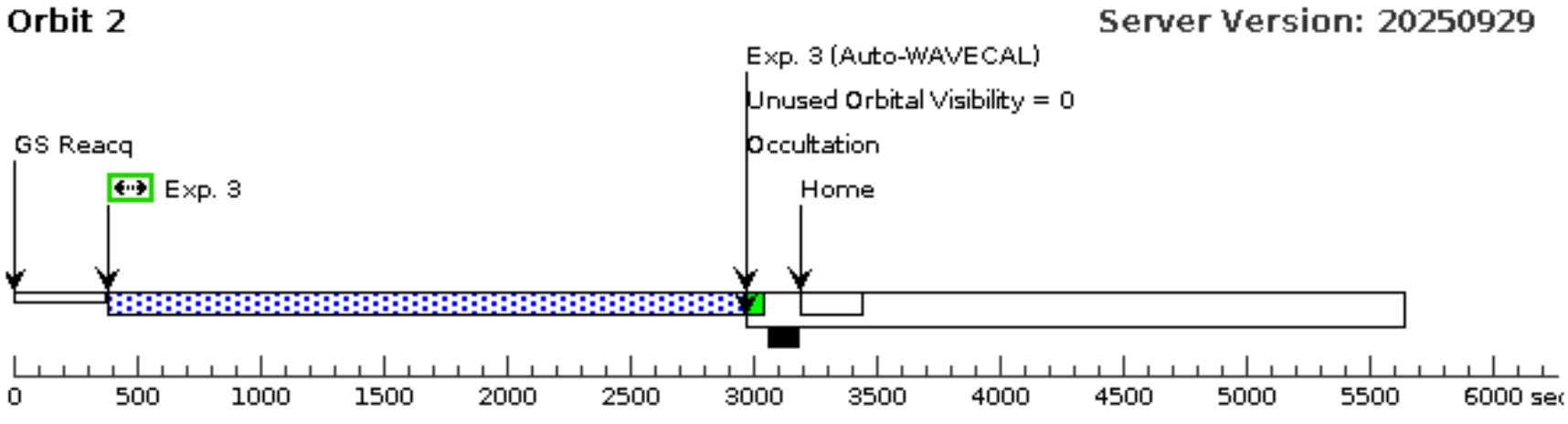
#	Name	Criteria	Description
(3)	INFANT-TDE3	Spectroscopically confirmed TDE with rising optical light curve	ACCRETION DISK NUCLEUS WIND

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Target Acquisition	(3) INFANT-TDE3	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=13; DIFFUSE-CENTER=FLUX-CENTROID			50 Secs (50 Secs) *[==>]*	 ***[1]***
2	FUV (STIS.sp.14 26581)	(3) INFANT-TDE3	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				2160 Secs (1892 Secs) *[==>1892.0 Secs]*	 ***[1]***
3	FUV (STIS.sp.14 26581)	(3) INFANT-TDE3	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				2640 Secs (2571 Secs) *[==>2571.0 Secs]*	 ***[2]***

Orbit Structure





Visit

Proposal 18049, TDE1 Epoch 3 NUV (10), implementation Tue Apr 21 20:00:22 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: AFTER 04 BY 30 D TO 90 D; SEQ 10,11 WITHIN 1 D; TOO RESPONSE TIME 25.0D

Fixed Targets

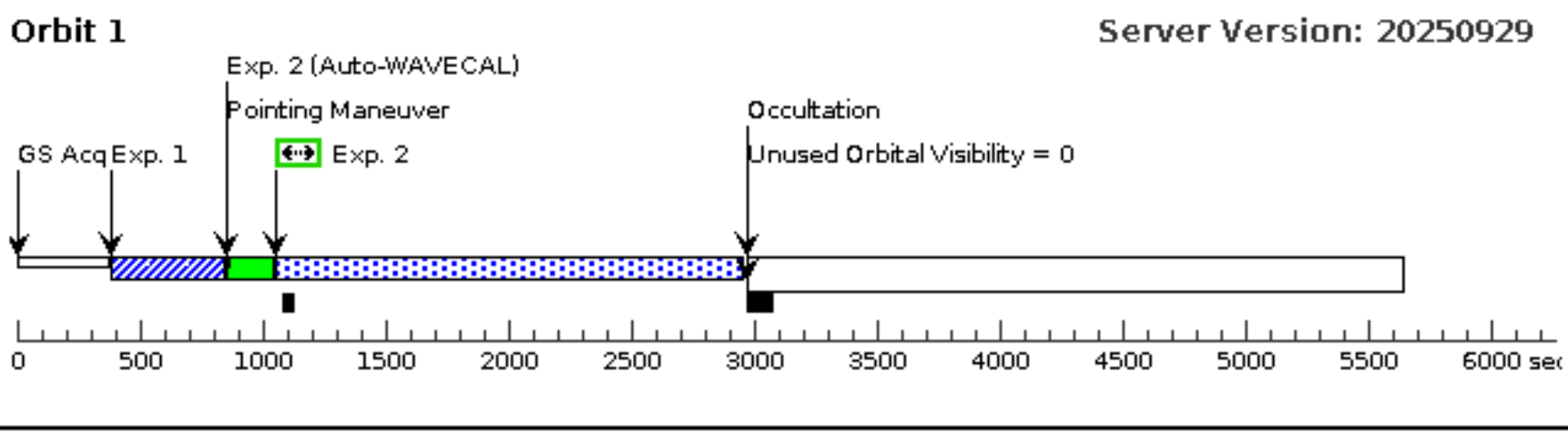
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	TDE2025AARM	RA: 04 32 12.3900 (68.0516250d) Dec: -05 22 39.59 (-5.37766d) Equinox: J2000	Epoch of Position: 2000	V=16+/-1	Reference Frame: ICRS

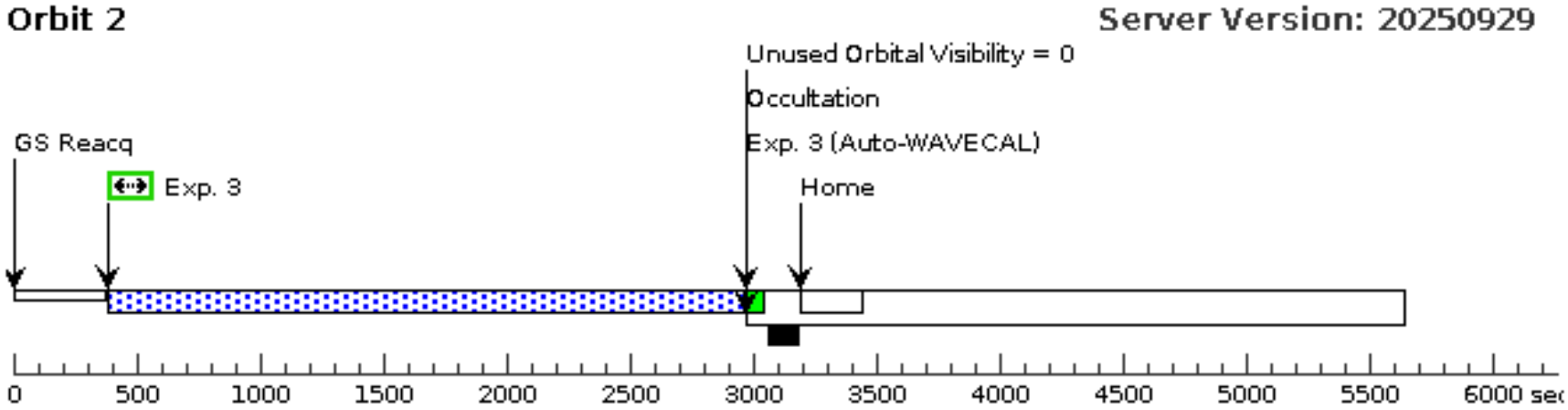
Comments:
Category=GALAXY
Description=[ACCRETION DISK, NUCLEUS]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Target Acquisition	(4) TDE2025AARM	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=13; DIFFUSE-CENTER=FLUX-CENTROID			50 Secs (50 Secs) *[==>]*	*[1]*
2	NUV (STIS.sp.14 26574)	(4) TDE2025AARM	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2160 Secs (1890 Secs) *[==>1890.0 Secs]*	*[1]*
3	NUV (STIS.sp.14 26574)	(4) TDE2025AARM	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2640 Secs (2569 Secs) *[==>2569.0 Secs]*	*[2]*

Orbit Structure





Visit

Proposal 18049, TDE1 Epoch 3 FUV (11), implementation Tue Apr 21 20:00:22 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: AFTER 05 BY 30 D TO 400 D; SEQ 10,11 WITHIN 7 D; TOO RESPONSE TIME 25.0D

Fixed Targets

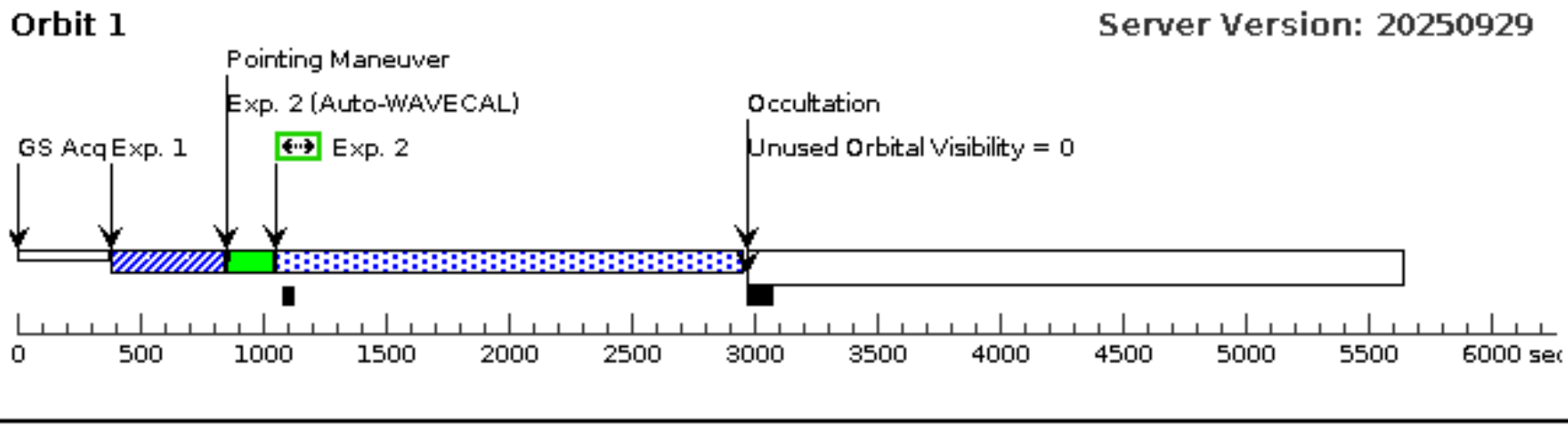
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	TDE2025AARM	RA: 04 32 12.3900 (68.0516250d) Dec: -05 22 39.59 (-5.37766d) Equinox: J2000	Epoch of Position: 2000	V=16+/-1	Reference Frame: ICRS

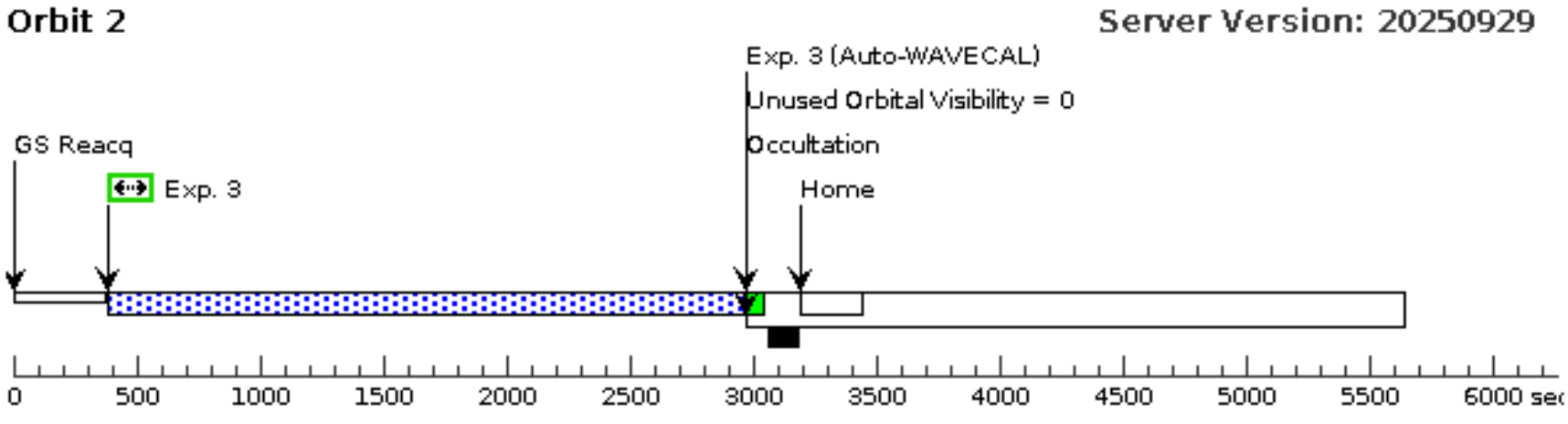
Comments:
Category=GALAXY
Description=[ACCRETION DISK, NUCLEUS]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Target Acquisition	(4) TDE2025AARM	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=13; DIFFUSE-CENTER=FLUX-CENTROID			50 Secs (50 Secs) *[==>]*	 ***[1]***
2	FUV (STIS.sp.14 26581)	(4) TDE2025AARM	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				2160 Secs (1890 Secs) *[==>1890.0 Secs]*	 ***[1]***
3	FUV (STIS.sp.14 26581)	(4) TDE2025AARM	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				2640 Secs (2569 Secs) *[==>2569.0 Secs]*	 ***[2]***

Orbit Structure





Visit

Proposal 18049, TDE2 Epoch 3 NUV (12), implementation Tue Apr 21 20:00:22 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: BETWEEN 15-AUG-2026 AND 29-AUG-2026; SEQ 12,13 WITHIN 7 D; TOO RESPONSE TIME 25.0D

Fixed Targets

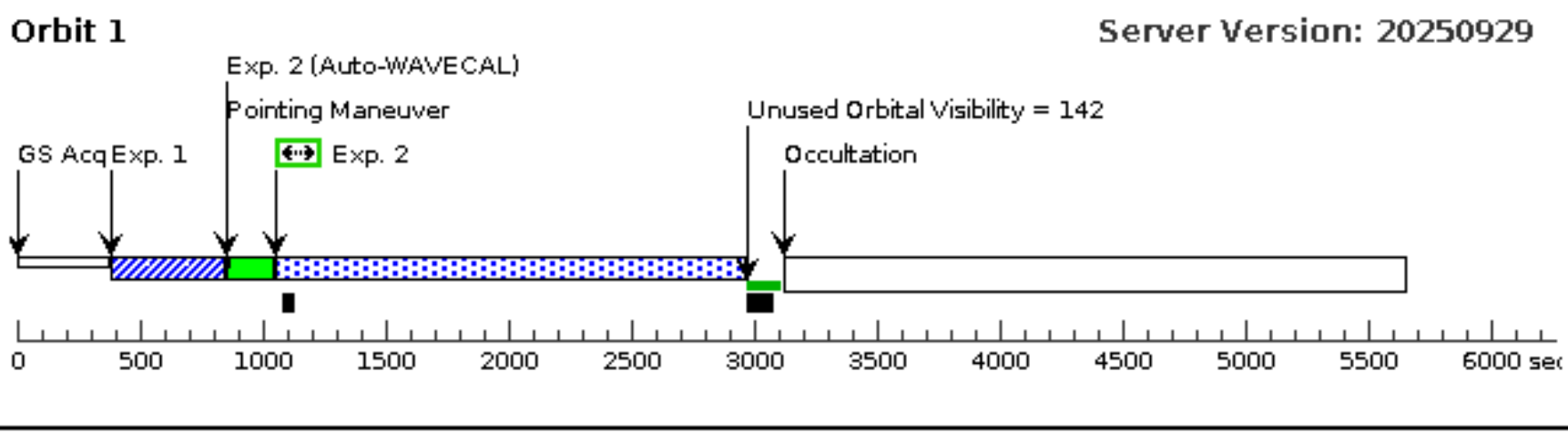
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	TDE2026HDO	RA: 10 31 52.6500 (157.9693750d) Dec: +73 58 5.68 (73.96824d) Equinox: J2000	Epoch of Position: 2000	V=19.5+/-0.5	Reference Frame: ICRS

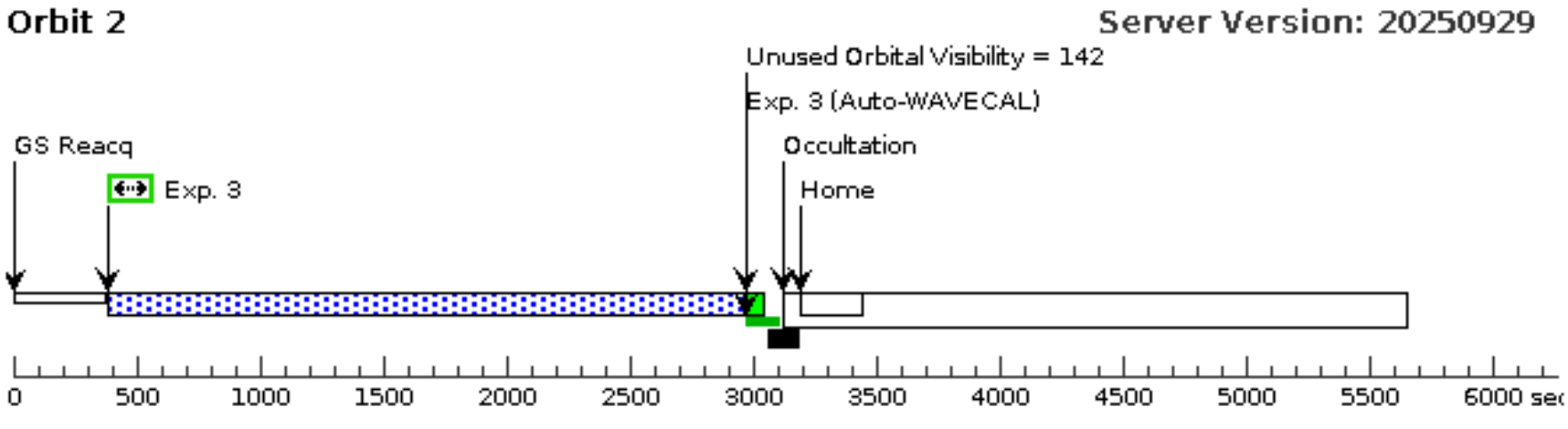
Comments: The source is currently on the rise, so will likely be brighter by the time of observation.
Category=GALAXY
Description=[ACCRETION DISK, NUCLEUS]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Target Acquisition	(5) TDE2026HDO	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=13; DIFFUSE-CENTER=FLUX-CENTROID			50 Secs (50 Secs) *[==>]*	***[1]***
2	NUV (STIS.sp.14 26574)	(5) TDE2026HDO	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2160 Secs (1892 Secs) *[==>1892.0 Secs]*	***[1]***
3	NUV (STIS.sp.14 26574)	(5) TDE2026HDO	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2640 Secs (2571 Secs) *[==>2571.0 Secs]*	***[2]***

Orbit Structure





Visit

Proposal 18049, TDE2 Epoch 3 FUV (13), implementation Tue Apr 21 20:00:22 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: BETWEEN 15-AUG-2026 AND 29-AUG-2026; SEQ 12,13 WITHIN 7 D; TOO RESPONSE TIME 25.0D

Fixed Targets

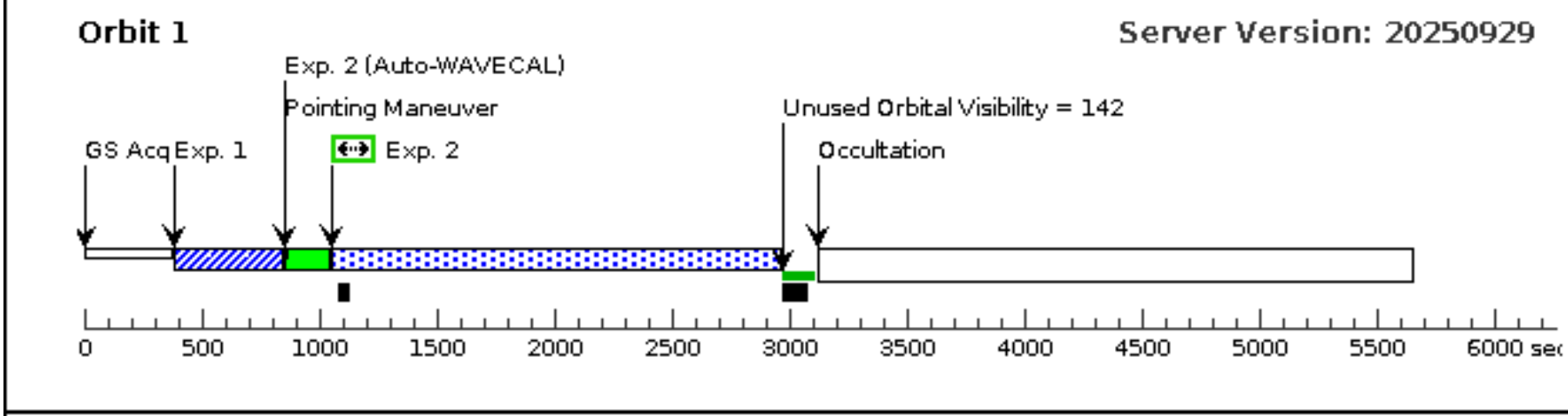
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	TDE2026HDO	RA: 10 31 52.6500 (157.9693750d) Dec: +73 58 5.68 (73.96824d) Equinox: J2000	Epoch of Position: 2000	V=19.5+/-0.5	Reference Frame: ICRS

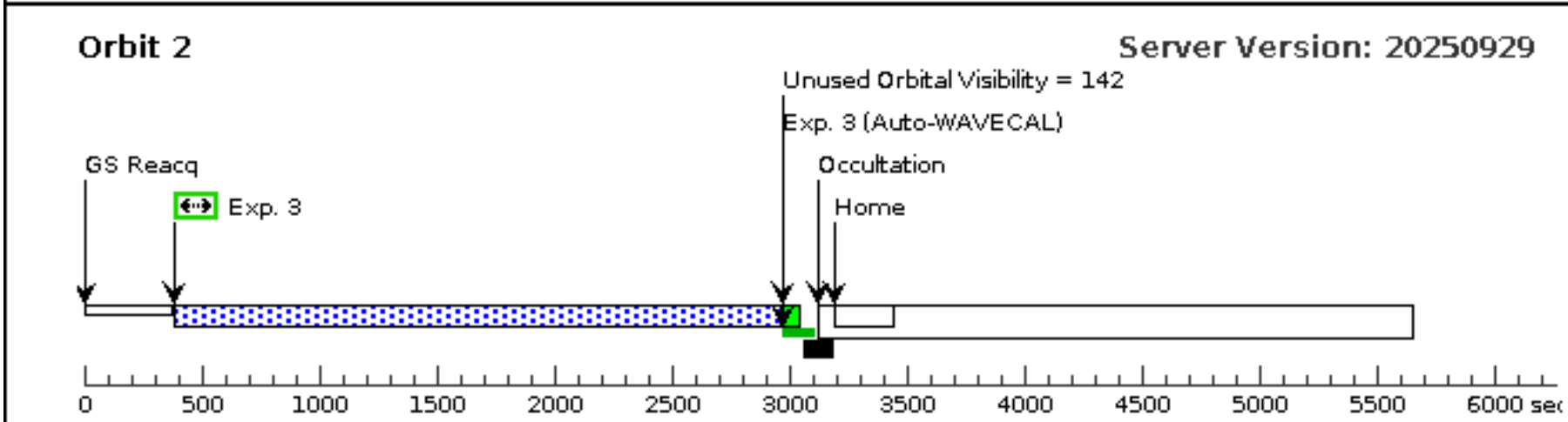
Comments: The source is currently on the rise, so will likely be brighter by the time of observation.
Category=GALAXY
Description=[ACCRETION DISK, NUCLEUS]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Target Acquisition	(5) TDE2026HDO	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=13; DIFFUSE-CENTER=FLUX-CENTROID			50 Secs (50 Secs) *[==>]*	***[1]***
2	FUV (STIS.sp.14 26581)	(5) TDE2026HDO	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				2160 Secs (1892 Secs) *[==>1892.0 Secs]*	***[1]***
3	FUV (STIS.sp.14 26581)	(5) TDE2026HDO	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				2640 Secs (2571 Secs) *[==>2571.0 Secs]*	***[2]***

Orbit Structure





Visit

Proposal 18049, TDE3 Epoch 3 NUV (14), implementation Tue Apr 21 20:00:22 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: AFTER 08 BY 55 D TO 65 D; SEQ 14,15 WITHIN 1 D; TOO RESPONSE TIME 25.0D

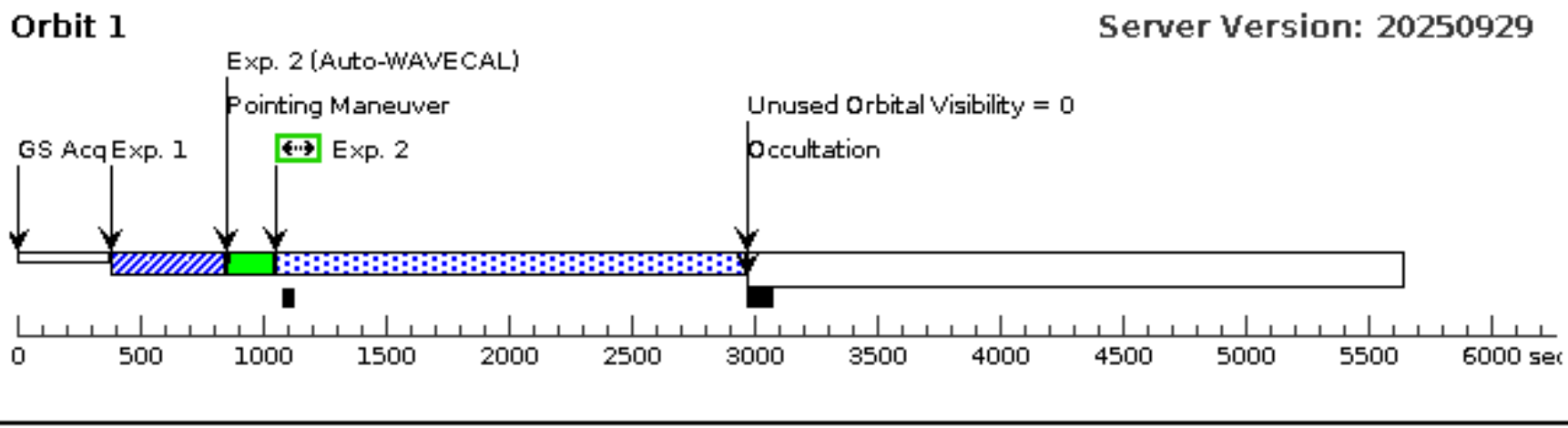
Generic Targets

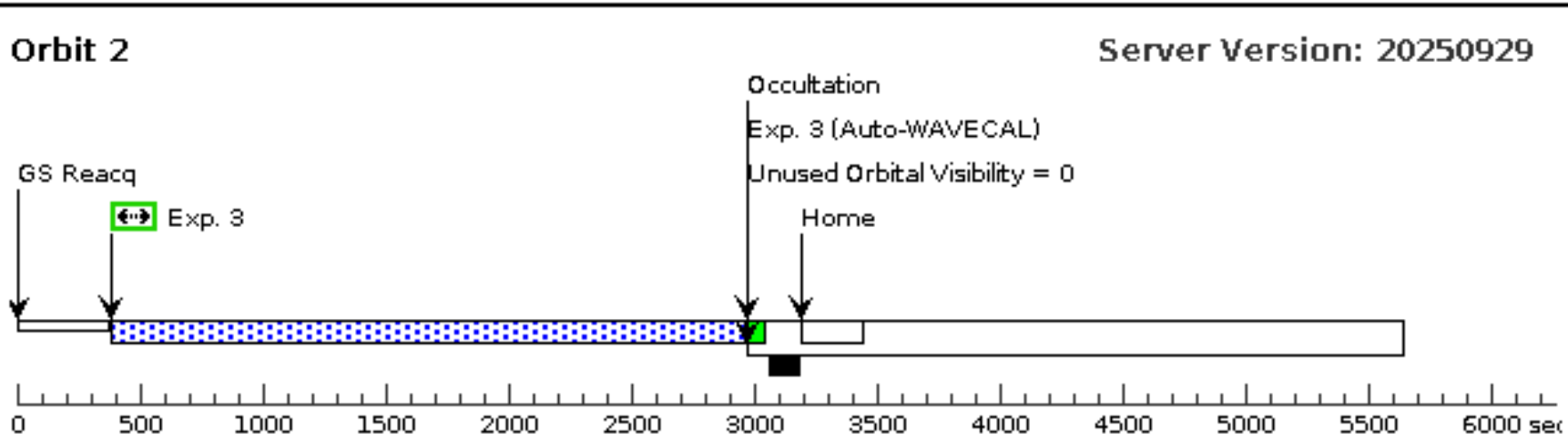
#	Name	Criteria	Description
(3)	INFANT-TDE3	Spectroscopically confirmed TDE with rising optical light curve	ACCRETION DISK NUCLEUS WIND

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Target Acquisition	(3) INFANT-TDE3	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=13; DIFFUSE-CENTER=FLUX-CENTROID			50 Secs (50 Secs) *[==>]*	***[1]***
2	NUV (STIS.sp.14 26574)	(3) INFANT-TDE3	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2160 Secs (1892 Secs) *[==>1892.0 Secs]*	***[1]***
3	NUV (STIS.sp.14 26574)	(3) INFANT-TDE3	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				2640 Secs (2571 Secs) *[==>2571.0 Secs]*	***[2]***

Orbit Structure





Visit

Proposal 18049, TDE3 Epoch 3 FUV (15), implementation Tue Apr 21 20:00:22 GMT 2026

Diagnostic Status: No Diagnostics

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

Special Requirements: AFTER_09 BY 55 D TO 65 D; SEQ 14,15 WITHIN 1 D; TOO RESPONSE TIME 25.0D

Generic Targets

#	Name	Criteria	Description
(3)	INFANT-TDE3	Spectroscopically confirmed TDE with rising optical light curve	ACCRETION DISK NUCLEUS WIND

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Target Acquisition	(3) INFANT-TDE3	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=13; DIFFUSE-CENTER=FLUX-CENTROID			50 Secs (50 Secs) *[==>]*	***[1]***
2	FUV (STIS.sp.14 26581)	(3) INFANT-TDE3	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				2160 Secs (1892 Secs) *[==>1892.0 Secs]*	***[1]***
3	FUV (STIS.sp.14 26581)	(3) INFANT-TDE3	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				2640 Secs (2571 Secs) *[==>2571.0 Secs]*	***[2]***

Orbit Structure