



18135 - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (Wierzos)

Cycle: 33, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Dennis Bodewits (PI) (Contact)	Auburn University
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Dr. Kacper Wierzos (CoI)	University of Arizona
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Dr. Michael R. Combi (CoI)	University of Michigan
Yinsi Shou (CoI)	University of Michigan

VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(2) C2025K1	COS/FUV COS/NUV	1	23-Feb-2026 11:00:59.0	yes
21	(3) C2025K1V2	COS/FUV COS/NUV	1	23-Feb-2026 11:01:00.0	yes
02	(2) C2025K1	COS/FUV COS/NUV	1	23-Feb-2026 11:01:00.0	yes
22	(3) C2025K1V2	COS/FUV COS/NUV	1	23-Feb-2026 11:01:01.0	yes

Proposal 18135 (STScI Edit Number: 17, Created: Monday, February 23, 2026, 11:01:09AM Eastern Standard Time) - Overview

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
03	(2) C2025K1	STIS/CCD STIS/NUV-MAMA	1	23-Feb-2026 11:01:01.0	yes
23	(3) C2025K1V2	STIS/CCD STIS/NUV-MAMA	1	23-Feb-2026 11:01:02.0	yes
04	(2) C2025K1	COS/FUV COS/NUV	1	23-Feb-2026 11:01:02.0	yes
24	(3) C2025K1V2	COS/FUV COS/NUV	1	23-Feb-2026 11:01:02.0	yes
05	(2) C2025K1	COS/FUV COS/NUV	1	23-Feb-2026 11:01:03.0	yes
25	(3) C2025K1V2	COS/FUV COS/NUV	1	23-Feb-2026 11:01:03.0	yes
06	(2) C2025K1	STIS/CCD STIS/NUV-MAMA	1	23-Feb-2026 11:01:03.0	yes
26	(3) C2025K1V2	STIS/CCD STIS/NUV-MAMA	1	23-Feb-2026 11:01:04.0	yes
07	(2) C2025K1	COS/FUV COS/NUV	1	23-Feb-2026 11:01:04.0	yes
27	(3) C2025K1V2	COS/FUV COS/NUV	1	23-Feb-2026 11:01:05.0	yes
08	(2) C2025K1	COS/FUV COS/NUV	1	23-Feb-2026 11:01:05.0	yes
28	(3) C2025K1V2	COS/FUV COS/NUV	1	23-Feb-2026 11:01:05.0	yes
09	(2) C2025K1	STIS/CCD STIS/NUV-MAMA	1	23-Feb-2026 11:01:06.0	yes
29	(3) C2025K1V2	STIS/CCD STIS/NUV-MAMA	1	23-Feb-2026 11:01:07.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
10	(2) C2025K1	COS/FUV COS/NUV	1	23-Feb-2026 11:01:07.0	yes
30	(3) C2025K1V2	COS/FUV COS/NUV	1	23-Feb-2026 11:01:07.0	yes
11	(2) C2025K1	COS/FUV COS/NUV	1	23-Feb-2026 11:01:08.0	yes
31	(3) C2025K1V2	COS/FUV COS/NUV	1	23-Feb-2026 11:01:08.0	yes
12	(2) C2025K1	STIS/CCD STIS/NUV-MAMA	1	23-Feb-2026 11:01:08.0	yes
32	(3) C2025K1V2	STIS/CCD STIS/NUV-MAMA	1	23-Feb-2026 11:01:09.0	yes

24 Total Orbits Used

ABSTRACT

Sulfur is a critical yet poorly understood component of protoplanetary disk chemistry, with less than 0.1% of its cosmic abundance observed in the gas phase. Comets, as chemically primitive bodies formed in the solar nebula midplane, are key tracers of early disk composition. This proposal targets Comet C/2024 E1 (Wierzchos), a dynamically new Oort Cloud Comet with a close perihelion (0.57 au). As near-surface layers are thermally processed and stripped during solar passage, post-perihelion observations provide a unique opportunity to probe deeper, less-altered material when the coma most closely reflects the nucleus. Using HST's ultraviolet capabilities, we will measure production rates of H₂O, CO, atomic carbon, and sulfur-bearing species (S, CS, S₂) to derive the comet's C/O and S/O ratios, key tracers of formation conditions and chemical inheritance. These observations will test predictions of volatile depletion, sulfur sequestration, and thermal evolution in the early solar system, and provide essential constraints on the sulfur depletion problem in disk chemistry.

OBSERVING DESCRIPTION

We will observe comet C/2024 E1 with STIS and COS for a total of 12 orbits once it emerges from the solar keep-out zone post-perihelion, between March 7-21, 2026, when it's V-mag predicted to be 9-10. To maximize scientific return, our strategy includes 8 orbits of COSG160M to measure the SI multiplet at 1479 Angstroms and 4 orbits of STIS

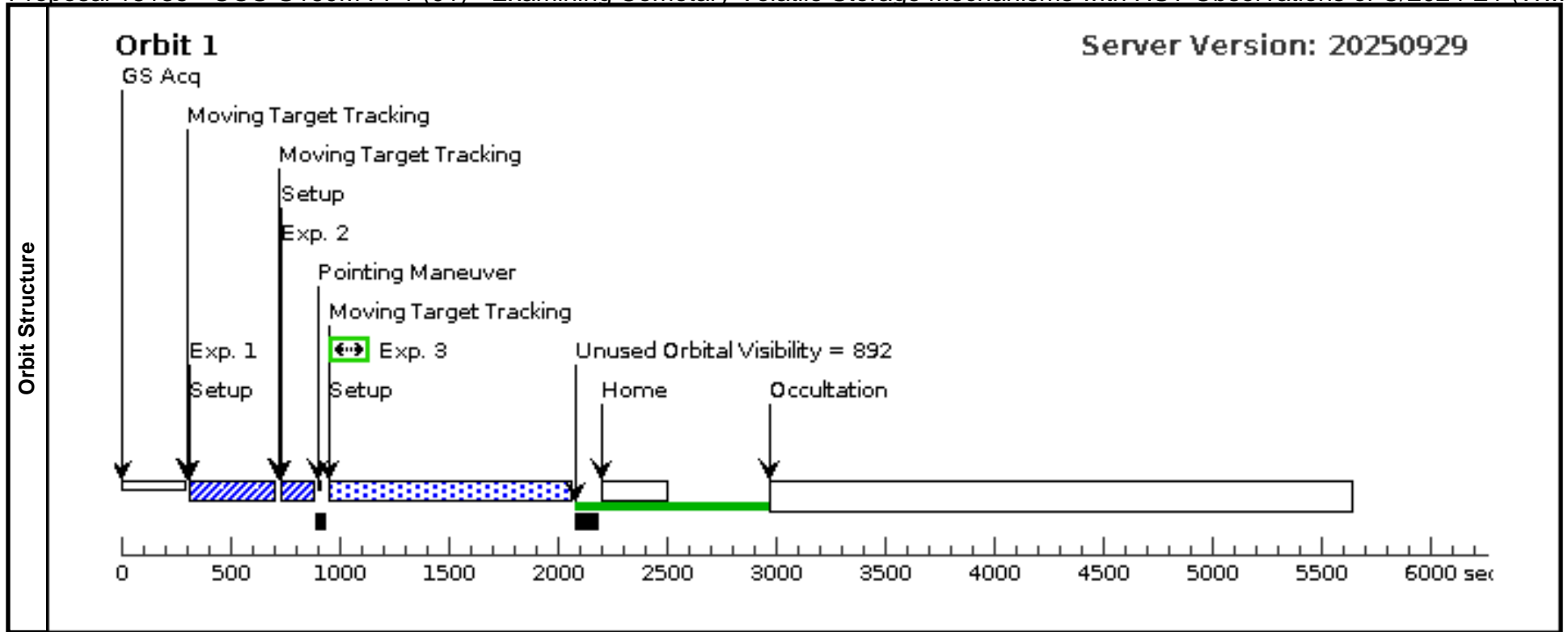
Proposal 18135 (STScI Edit Number: 17, Created: Monday, February 23, 2026, 11:01:09AM Eastern Standard Time) - Overview

G230L to detect CS and OH, with simultaneous sensitivity to S₂. COS will cover SI multiplets at 1479 and 1667 Angstroms, CI features at 1561 Angstroms and 1657 Angstroms, and CO Fourth Positive Group emission features (1400-1670 Angstroms). STIS, with a 52x0.5" aperture (1570-3180 Angstroms), will capture the CO Cameron bands between 1900 Angstroms and 2300 Angstroms, C₂ at 2313 Angstroms CS (A-X) at 2576 Angstroms, S₂ via vibrational bands between 2828-3055 Angstroms, and OH (A-X) at 2835 and 3085 Angstroms. Only HST has the UV sensitivity and spectral coverage (1600-3000 Angstroms) required for this full suite of species.

Proposal 18135 - COS G160M FP1 (01) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (W...

Mon Feb 23 16:01:09 GMT 2026

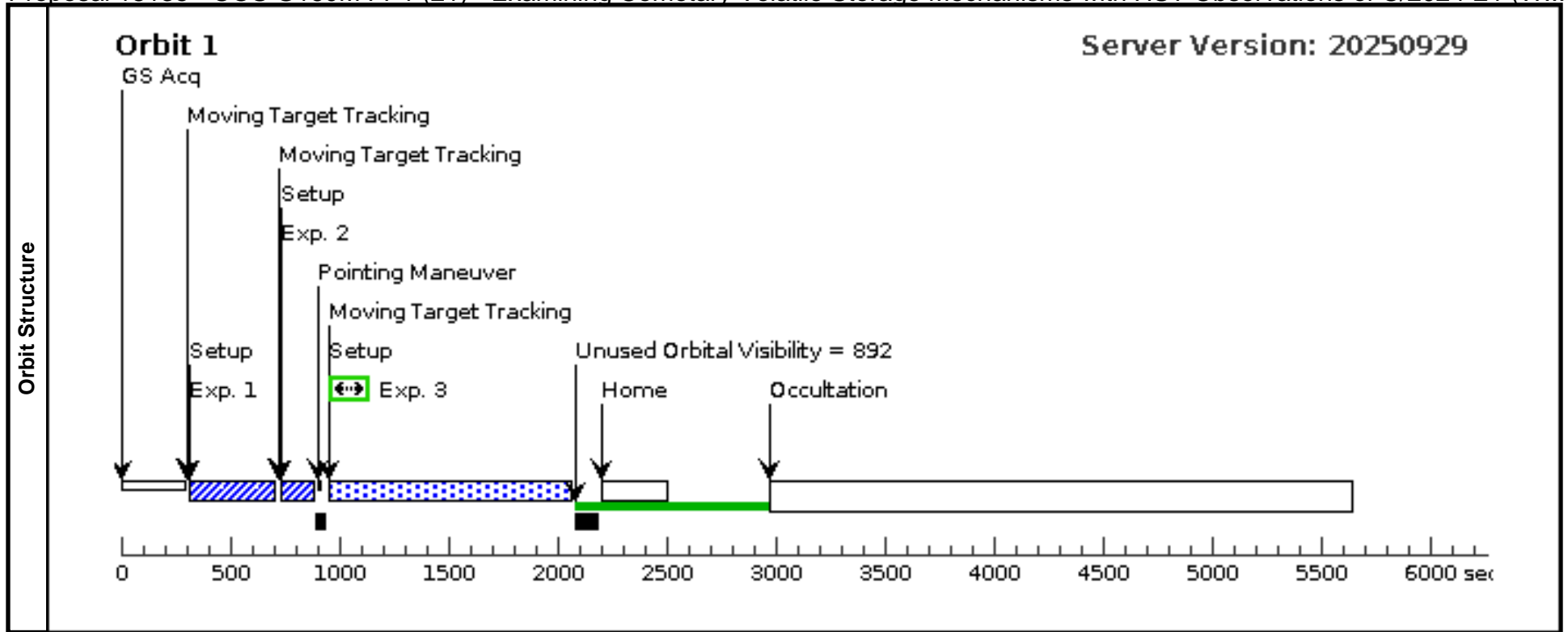
Visit	<p>Proposal 18135, COS G160M FP1 (01), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00</p>									
	<p>(COS G160M FP1 (01)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.</p> <p>(G160M (01.003)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(COS G160M FP1 (01)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(2)	C2025K1	TYPE=COMET,Q=0.3341775465431033,E=1.000258561145607,I=147.8642063372146,O=97.55768581282922,W=271.0280864615683,T=08-OCT-2025:10:32:26,TTimeScale=TDB,EQUINOX=J2000,EPOCH=23-JUL-2025:00:00:00,EpochTimeScale=TDB					EARTH		
<p><i>Comments: Description=C/2025 K1</i></p> <p><i>Extended=YES</i></p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.20 24840)	(2) C2025K1	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2	GS ACQ SCENARI O ONEB1OR		30 Secs (30 Secs) [==>]	[1]
	2	IMAGE (COS.im.20 24840)	(2) C2025K1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs) [==>]	[1]
	3	G160M (COS.sp.202 4812)	(2) C2025K1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=1; BUFFER-TIME=90 0			670 Secs (900 Secs) [==>900.0 Secs]	[1]



Proposal 18135 - COS G160M FP1 (21) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (W...

Mon Feb 23 16:01:09 GMT 2026

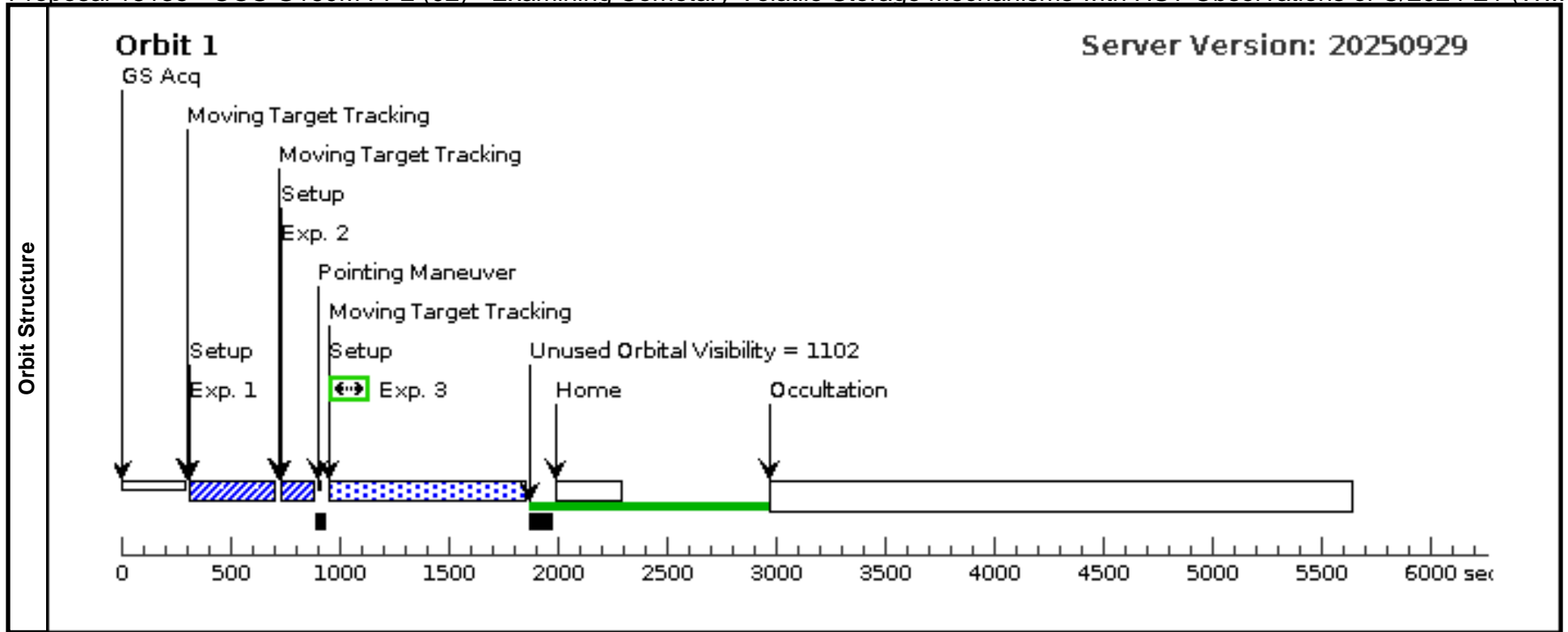
Visit	Proposal 18135, COS G160M FP1 (21), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00									
	(COS G160M FP1 (21)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser. (G160M (21.003)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details. (COS G160M FP1 (21)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(3)	C2025K1V2	TYPE=COMET,Q=0.3342083770239 909,E=1.000280680346033,I=147.865 1441817135 ,O=97.55608189140362,W=271.02291 27199095,T=08-OCT- 2025:10:32:46,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=24-JUL- 2025:00:00:00,EpochTimeScale=TDB					EARTH		
<i>Comments: Using JPL Horizons version #13 for orbital ephemeris</i> Description=C2025K1v2 Extended=YES										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.20 24840)	(3) C2025K1V2	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2	GS ACQ SCENARI O ONEB1OR		30 Secs (30 Secs) [==>]	[1]
	2	IMAGE (COS.im.20 24840)	(3) C2025K1V2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs) [==>]	[1]
	3	G160M (COS.sp.202 4812)	(3) C2025K1V2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=1; BUFFER-TIME=90 0			670 Secs (900 Secs) [==>900.0 Secs]	[1]



Proposal 18135 - COS G160M FP2 (02) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (W...

Mon Feb 23 16:01:09 GMT 2026

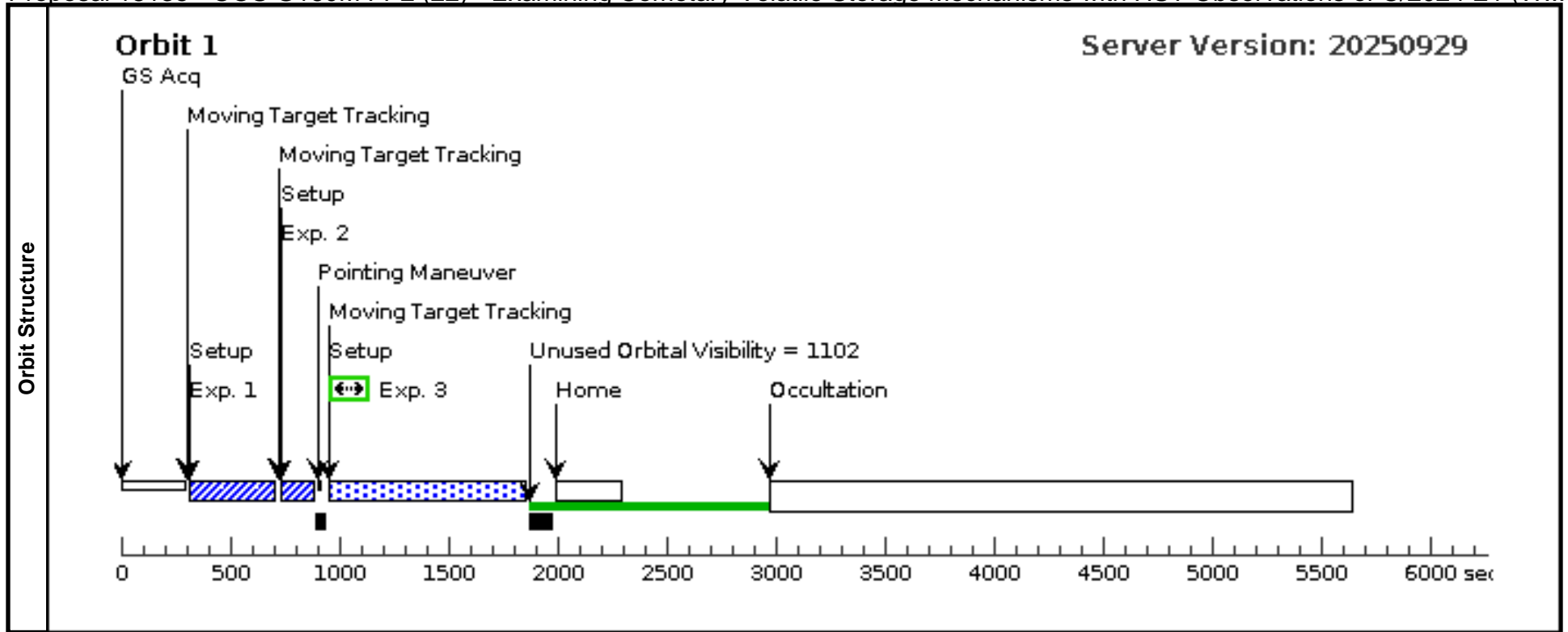
Visit	<p>Proposal 18135, COS G160M FP2 (02), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00</p>									
	<p>(COS G160M FP2 (02)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.</p> <p>(G160M (02.003)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(COS G160M FP2 (02)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(2)	C2025K1	TYPE=COMET,Q=0.3341775465431033,E=1.000258561145607,I=147.8642063372146,O=97.55768581282922,W=271.0280864615683,T=08-OCT-2025:10:32:26,TTimeScale=TDB,EQUINOX=J2000,EPOCH=23-JUL-2025:00:00:00,EpochTimeScale=TDB					EARTH		
<p><i>Comments: Description=C/2025 K1</i></p> <p><i>Extended=YES</i></p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.20 24840)	(2) C2025K1	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2	GS ACQ SCENARI O ONEB1OR		30 Secs (30 Secs)	
									[==>]	[1]
	2	IMAGE (COS.im.20 24840)	(2) C2025K1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs)	
								[==>]	[1]	
3	G160M (COS.sp.202 4812)	(2) C2025K1	COS/FUV, TIME-TAG, PSA	G160M 1589 A		BUFFER-TIME=690;			690 Secs (690 Secs)	
						FP-POS=2			[==>]	[1]



Proposal 18135 - COS G160M FP2 (22) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (W...

Mon Feb 23 16:01:09 GMT 2026

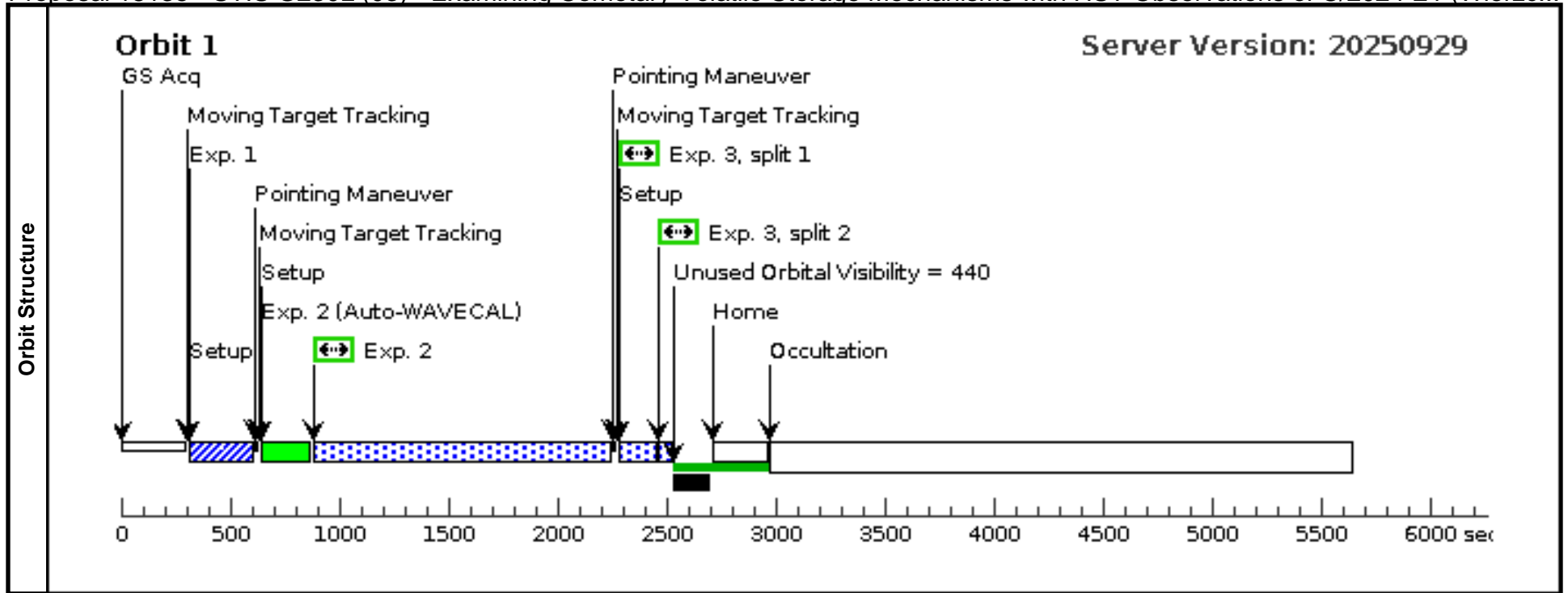
Visit	<p>Proposal 18135, COS G160M FP2 (22), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00</p>									
	<p>(COS G160M FP2 (22)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.</p> <p>(G160M (22.003)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(COS G160M FP2 (22)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(3)	C2025K1V2	TYPE=COMET,Q=0.3342083770239 909,E=1.000280680346033,I=147.865 1441817135 ,O=97.55608189140362,W=271.02291 27199095,T=08-OCT- 2025:10:32:46,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=24-JUL- 2025:00:00:00,EpochTimeScale=TDB					EARTH		
<p><i>Comments: Using JPL Horizons version #13 for orbital ephemeris</i></p> <p><i>Description=C2025K1v2</i></p> <p><i>Extended=YES</i></p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.20 24840)	(3) C2025K1V2	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2	GS ACQ SCENARI O ONEB1OR		30 Secs (30 Secs) [==>]	[1]
	2	IMAGE (COS.im.20 24840)	(3) C2025K1V2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs) [==>]	[1]
	3	G160M (COS.sp.202 4812)	(3) C2025K1V2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=69 0; FP-POS=2			690 Secs (690 Secs) [==>]	[1]



Proposal 18135 - STIS G230L (03) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (Wierzc...

Mon Feb 23 16:01:09 GMT 2026

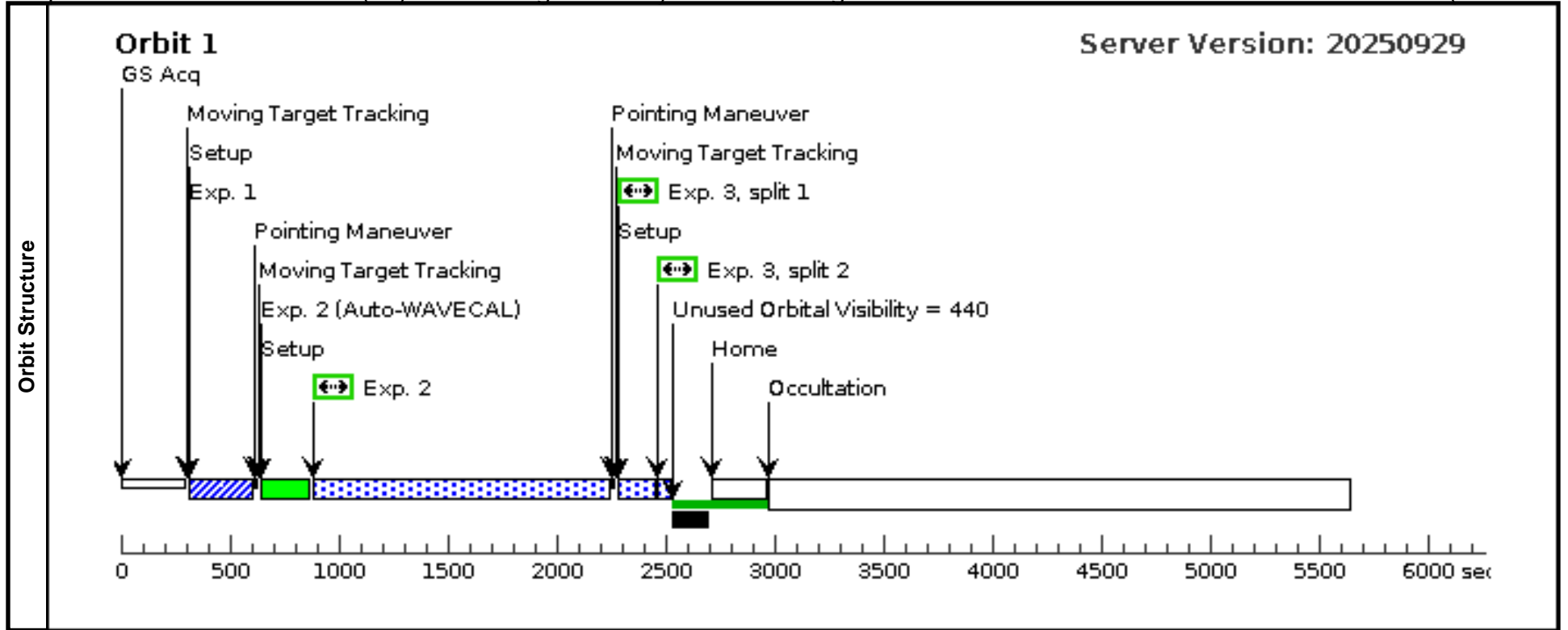
Visit	Proposal 18135, STIS G230L (03), withdrawn Diagnostic Status: Informational Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00									
	(STIS G230L (03)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(2)	C2025K1	TYPE=COMET,Q=0.3341775465431 033,E=1.000258561145607,I=147.864 2063372146 ,O=97.55768581282922,W=271.02808 64615683,T=08-OCT- 2025:10:32:26,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=23-JUL- 2025:00:00:00,EpochTimeScale=TDB					EARTH		
Comments: Description=C/2025 K1 Extended=YES										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(2) C2025K1	STIS/CCD, ACQ, F28X50LP	MIRROR		GS ACQ SCENARI O ONEB1OR		5 Secs (5 Secs) [==>]	[1]
	2	G230L (STIS.sp.20 24825)	(2) C2025K1	STIS/NUV-MAMA, ACCUM, 52X0.5	G230L 2376 A				1300 Secs (1319 Secs) [==>1319.0 Secs]	[1]
	3		(2) C2025K1	STIS/CCD, ACCUM, F28X50LP	MIRROR				5 Secs (43 Secs) [==>21.5 Secs (Split 1)] [==>21.5 Secs (Split 2)]	[1]



Proposal 18135 - STIS G230L (23) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (Wierzc...

Mon Feb 23 16:01:09 GMT 2026

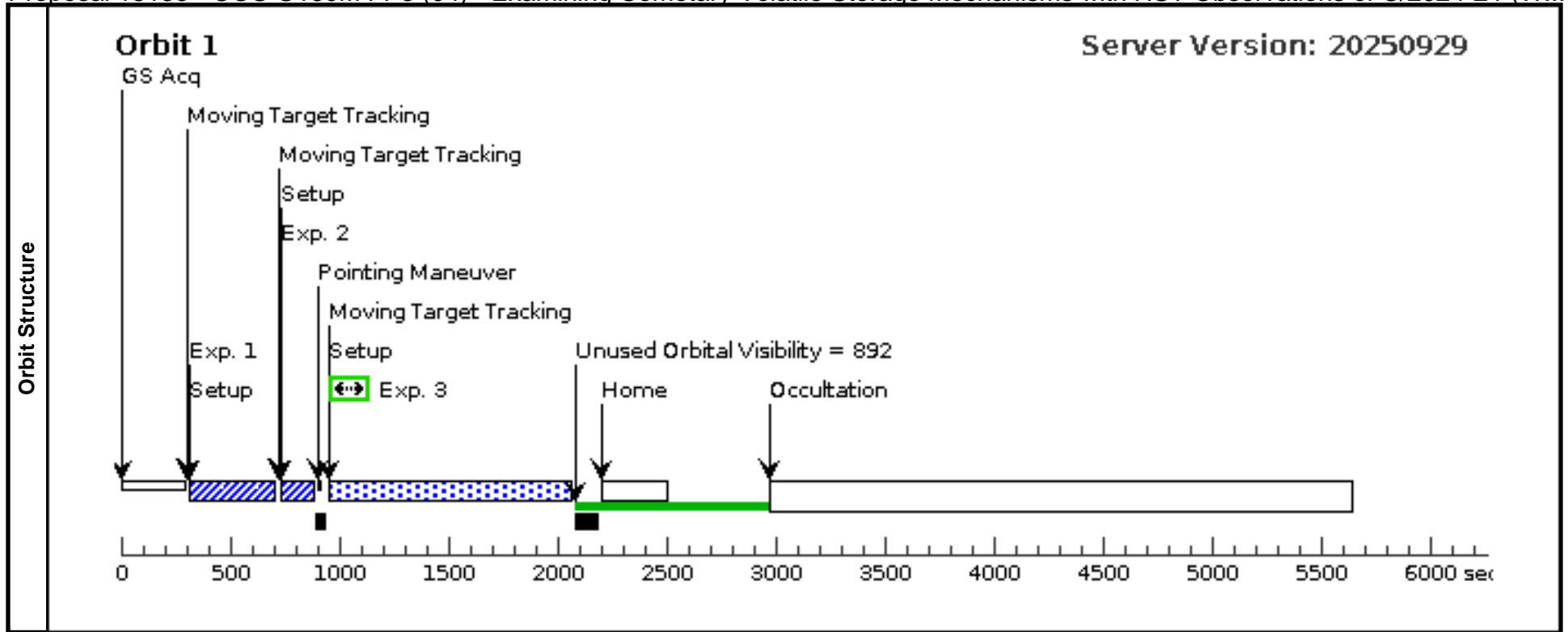
Visit	Proposal 18135, STIS G230L (23), completed Diagnostic Status: Informational Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00										
	(STIS G230L (23)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center				
	(3)	C2025K1V2	TYPE=COMET,Q=0.3342083770239 909,E=1.000280680346033,I=147.865 1441817135 ,O=97.55608189140362,W=271.02291 27199095,T=08-OCT- 2025:10:32:46,TimeScale=TDB,EQ UINOX=J2000,EPOCH=24-JUL- 2025:00:00:00,EpochTimeScale=TDB					EARTH			
Comments: Using JPL Horizons version #13 for orbital ephemeris Description=C2025K1v2 Extended=YES											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	ACQ	(3) C2025K1V2	STIS/CCD, ACQ, F28X50LP	MIRROR		GS ACQ SCENARI O ONEB1OR		5 Secs (5 Secs)		
									[==>]		[1]
	2	G230L (STIS.sp.20 24825)	(3) C2025K1V2	STIS/NUV-MAMA, ACCUM, 52X0.5	G230L 2376 A				1300 Secs (1319 Secs)		
								[==>1319.0 Secs]		[1]	
3		(3) C2025K1V2	STIS/CCD, ACCUM, F28X50LP	MIRROR				5 Secs (43 Secs)			
								[==>21.5 Secs (Split 1)]			
								[==>21.5 Secs (Split 2)]		[1]	



Proposal 18135 - COS G160M FP3 (04) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (W...

Mon Feb 23 16:01:09 GMT 2026

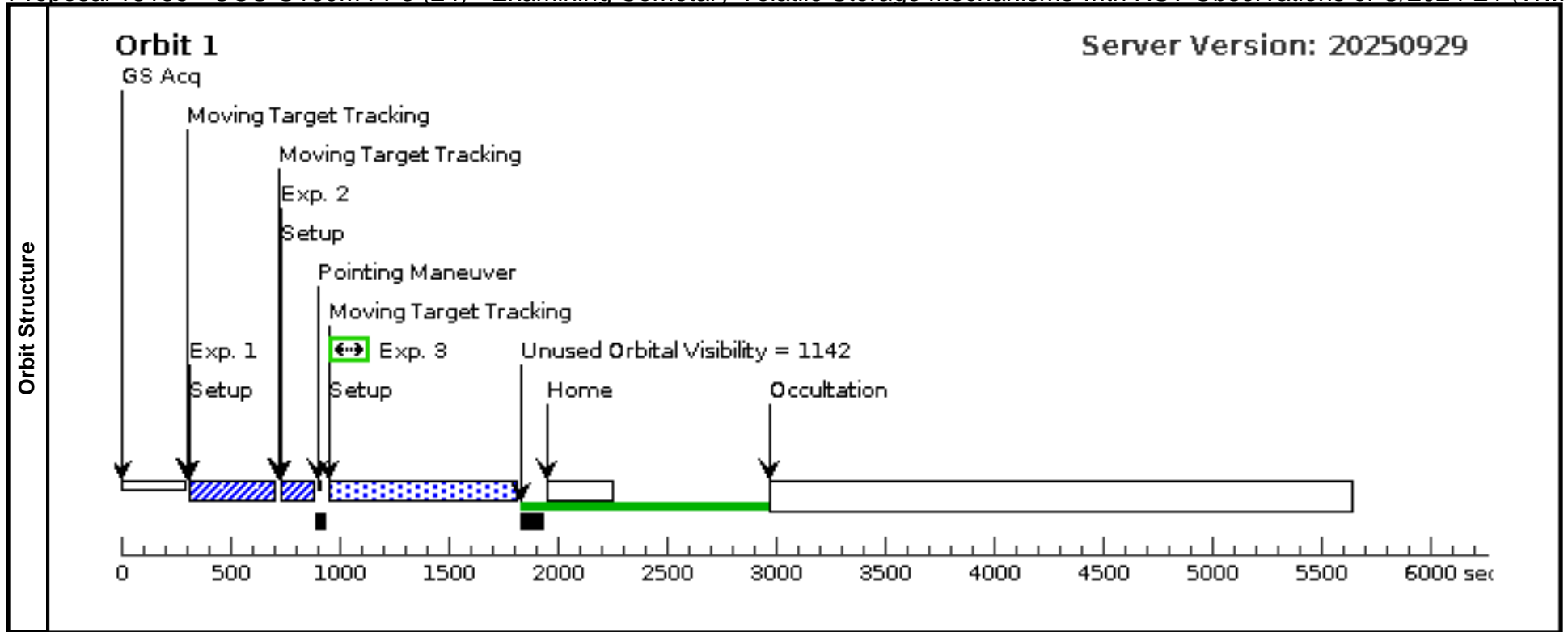
Visit	Proposal 18135, COS G160M FP3 (04), withdrawn Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00									
	(COS G160M FP3 (04)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser. (G160M (04.003)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details. (COS G160M FP3 (04)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(2)	C2025K1	TYPE=COMET,Q=0.3341775465431033,E=1.000258561145607,I=147.8642063372146,O=97.55768581282922,W=271.0280864615683,T=08-OCT-2025:10:32:26,TTimeScale=TDB,EQUINOX=J2000,EPOCH=23-JUL-2025:00:00:00,EpochTimeScale=TDB					EARTH		
Comments: Description=C/2025 K1 Extended=YES										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.20 24840)	(2) C2025K1	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2	GS ACQ SCENARI O ONEB1OR		30 Secs (30 Secs) [==>]	[1]
	2	IMAGE (COS.im.20 24840)	(2) C2025K1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs) [==>]	[1]
	3	G160M (COS.sp.202 4812)	(2) C2025K1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=90 0			670 Secs (900 Secs) [==>900.0 Secs]	[1]



Proposal 18135 - COS G160M FP3 (24) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (W...

Mon Feb 23 16:01:09 GMT 2026

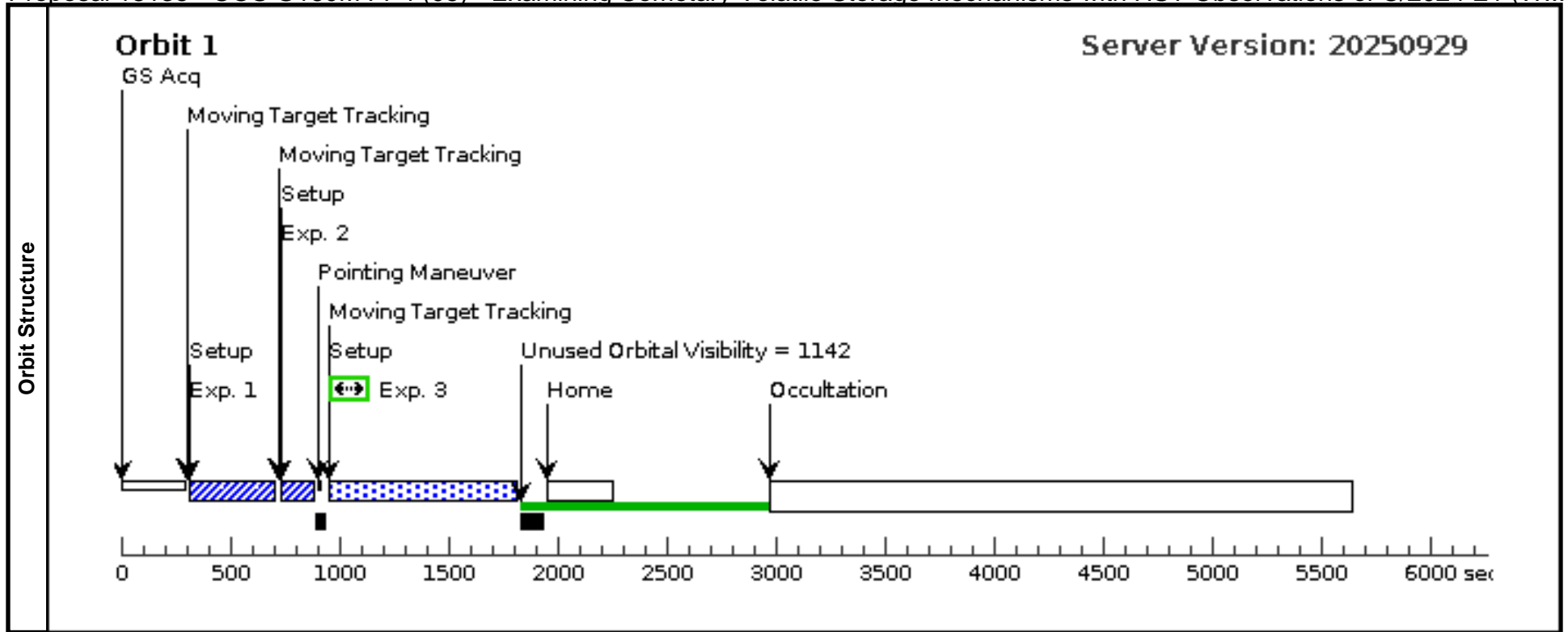
Visit	Proposal 18135, COS G160M FP3 (24), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00									
	Diagnosics (COS G160M FP3 (24)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser. (G160M (24.003)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details. (COS G160M FP3 (24)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(3)	C2025K1V2	TYPE=COMET,Q=0.3342083770239 909,E=1.000280680346033,I=147.865 1441817135 ,O=97.55608189140362,W=271.02291 27199095,T=08-OCT- 2025:10:32:46,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=24-JUL- 2025:00:00:00,EpochTimeScale=TDB					EARTH		
<i>Comments: Using JPL Horizons version #13 for orbital ephemeris</i> Description=C2025K1v2 Extended=YES										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.20 24840)	(3) C2025K1V2	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2	GS ACQ SCENARI O ONEB1OR		30 Secs (30 Secs) [==>]	[1]
	2	IMAGE (COS.im.20 24840)	(3) C2025K1V2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs) [==>]	[1]
	3	G160M (COS.sp.202 4812)	(3) C2025K1V2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=65 0			650 Secs (650 Secs) [==>]	[1]



Proposal 18135 - COS G160M FP4 (05) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (W...

Mon Feb 23 16:01:09 GMT 2026

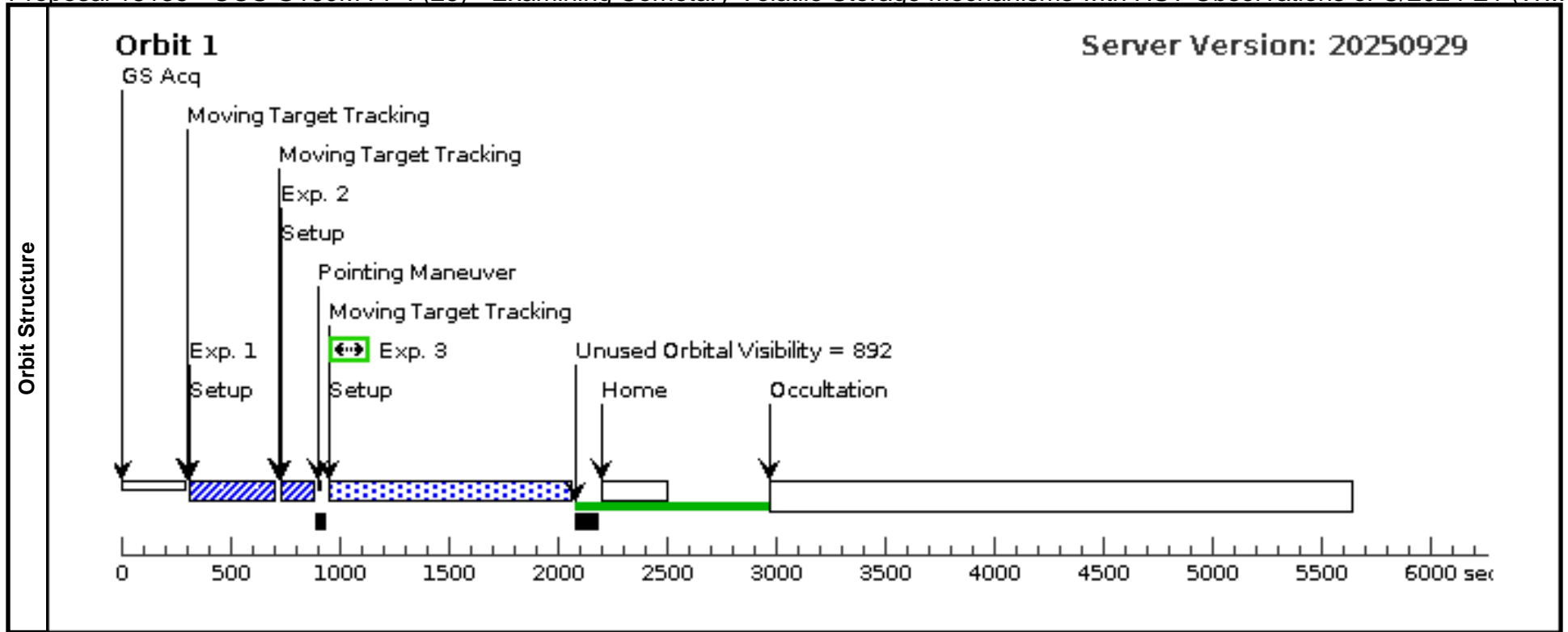
Visit	<p>Proposal 18135, COS G160M FP4 (05), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00</p>									
	<p>(COS G160M FP4 (05)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.</p> <p>(G160M (05.003)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(COS G160M FP4 (05)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(2)	C2025K1	TYPE=COMET,Q=0.3341775465431033,E=1.000258561145607,I=147.8642063372146,O=97.55768581282922,W=271.0280864615683,T=08-OCT-2025:10:32:26,TTimeScale=TDB,EQUINOX=J2000,EPOCH=23-JUL-2025:00:00:00,EpochTimeScale=TDB					EARTH		
<p><i>Comments: Description=C/2025 K1</i></p> <p><i>Extended=YES</i></p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.20 24840)	(2) C2025K1	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2	GS ACQ SCENARI O ONEB1OR		30 Secs (30 Secs)	
									[==>]	[1]
	2	IMAGE (COS.im.20 24840)	(2) C2025K1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs)	
								[==>]	[1]	
3	G160M (COS.sp.202 4812)	(2) C2025K1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=65 0			650 Secs (650 Secs)		
								[==>]	[1]	



Proposal 18135 - COS G160M FP4 (25) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (W...

Mon Feb 23 16:01:09 GMT 2026

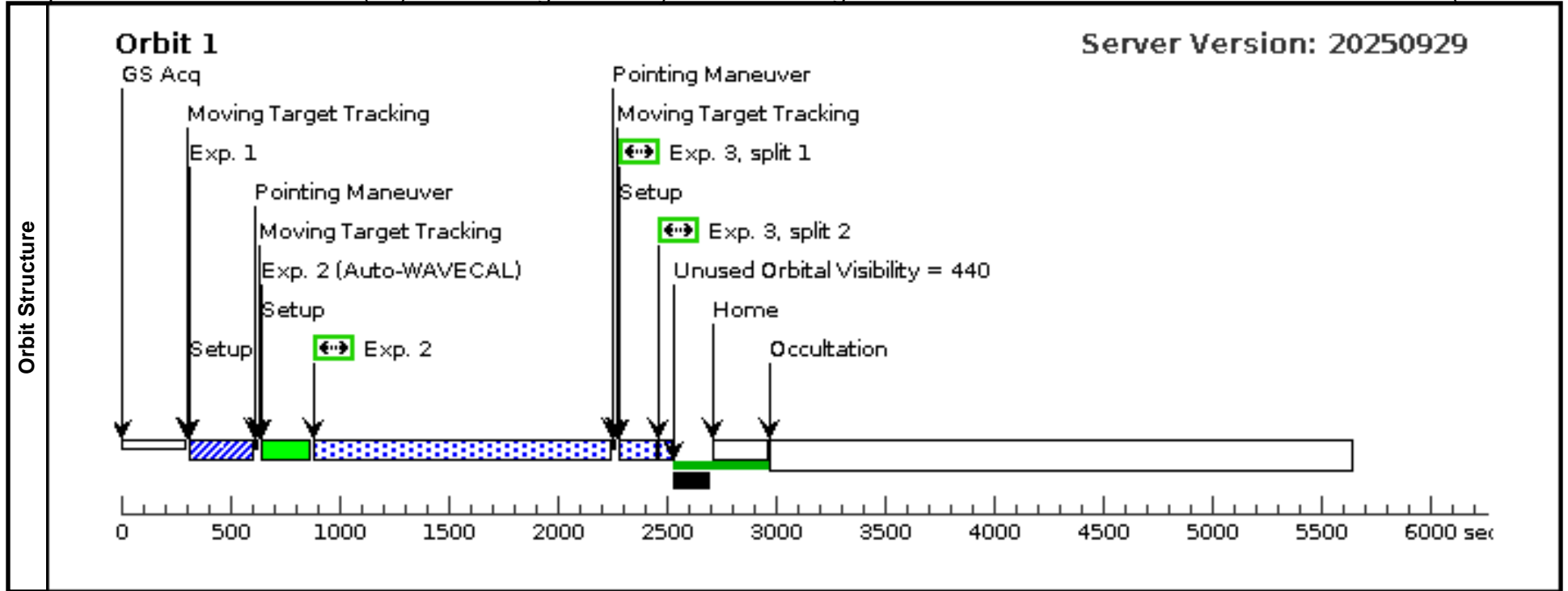
Visit	Proposal 18135, COS G160M FP4 (25), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00									
	(COS G160M FP4 (25)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser. (G160M (25.003)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details. (COS G160M FP4 (25)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(3)	C2025K1V2	TYPE=COMET,Q=0.3342083770239 909,E=1.000280680346033,I=147.865 1441817135 ,O=97.55608189140362,W=271.02291 27199095,T=08-OCT- 2025:10:32:46,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=24-JUL- 2025:00:00:00,EpochTimeScale=TDB					EARTH		
Comments: Using JPL Horizons version #13 for orbital ephemeris Description=C2025K1v2 Extended=YES										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.20 24840)	(3) C2025K1V2	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2	GS ACQ SCENARI O ONEB1OR		30 Secs (30 Secs) [==>]	[1]
	2	IMAGE (COS.im.20 24840)	(3) C2025K1V2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs) [==>]	[1]
	3	G160M (COS.sp.202 4812)	(3) C2025K1V2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=90 0			900 Secs (900 Secs) [==>]	[1]



Proposal 18135 - STIS G230L (06) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (Wierzc...

Mon Feb 23 16:01:09 GMT 2026

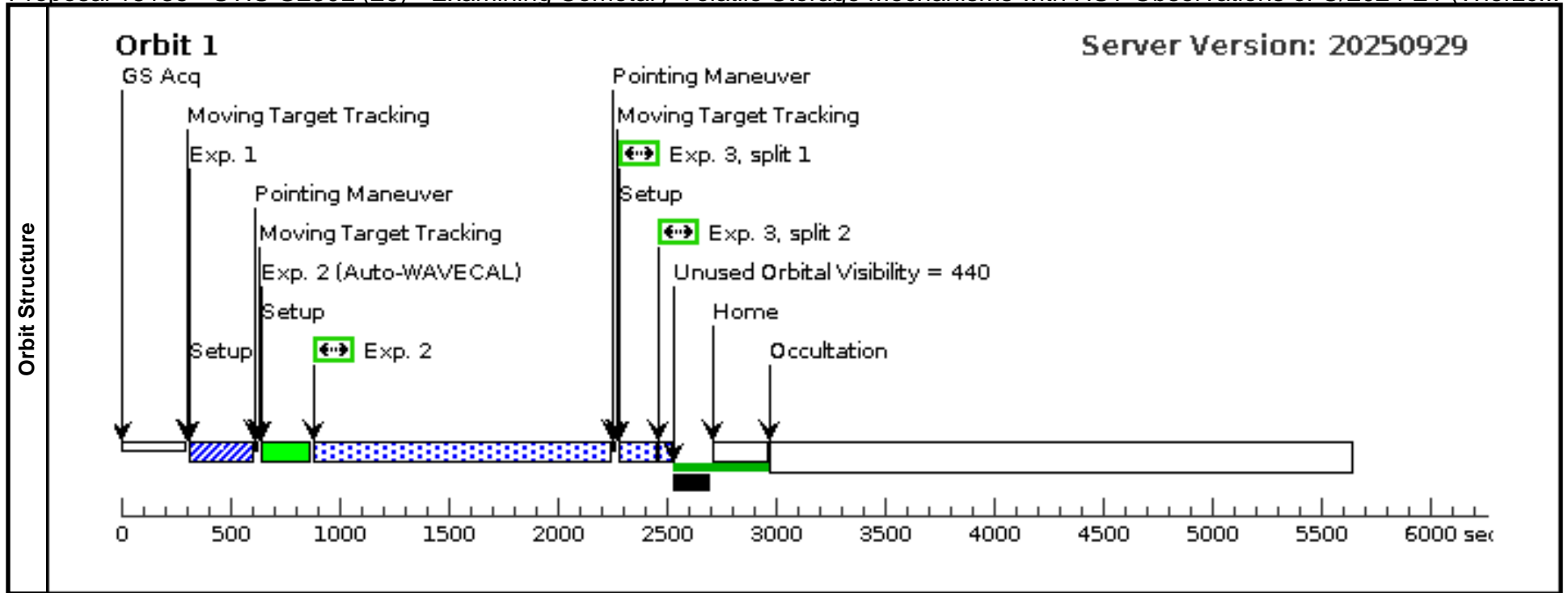
Visit	Proposal 18135, STIS G230L (06), withdrawn Diagnostic Status: Informational Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00									
	(STIS G230L (06)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(2)	C2025K1	TYPE=COMET,Q=0.3341775465431 033,E=1.000258561145607,I=147.864 2063372146 .O=97.55768581282922,W=271.02808 64615683,T=08-OCT- 2025:10:32:26,TimeScale=TDB,EQ UINOX=J2000,EPOCH=23-JUL- 2025:00:00:00,EpochTimeScale=TDB					EARTH		
Comments: Description=C/2025 K1 Extended=YES										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(2) C2025K1	STIS/CCD, ACQ, F28X50LP	MIRROR		GS ACQ SCENARI O ONEB1OR		5 Secs (5 Secs) [==>]	[1]
	2	G230L (STIS.sp.20 24825)	(2) C2025K1	STIS/NUV-MAMA, ACCUM, 52X0.5	G230L 2376 A				1300 Secs (1319 Secs) [==>1319.0 Secs]	[1]
	3		(2) C2025K1	STIS/CCD, ACCUM, F28X50LP	MIRROR				5 Secs (43 Secs) [==>21.5 Secs (Split 1)] [==>21.5 Secs (Split 2)]	[1]



Proposal 18135 - STIS G230L (26) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (Wierzc...

Mon Feb 23 16:01:09 GMT 2026

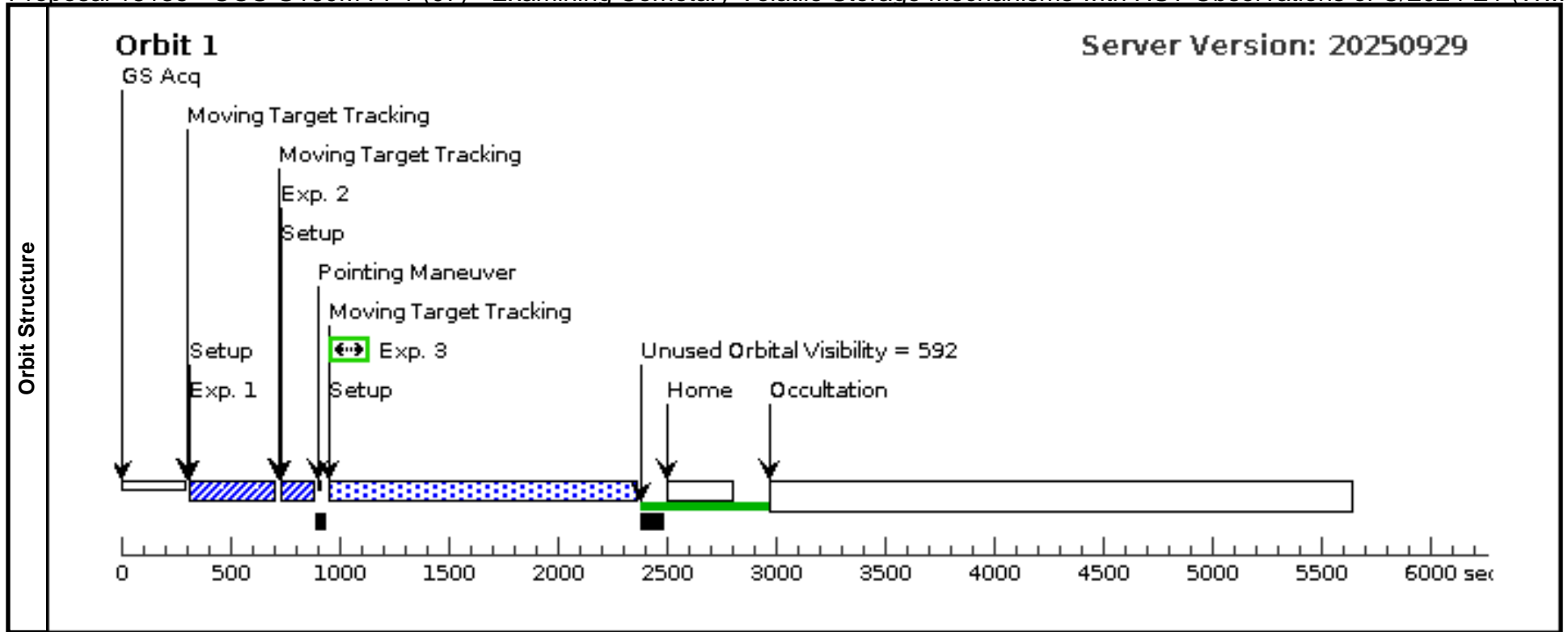
Visit	Proposal 18135, STIS G230L (26), completed Diagnostic Status: Informational Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00									
	(STIS G230L (26)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(3)	C2025K1V2	TYPE=COMET,Q=0.3342083770239 909,E=1.000280680346033,I=147.865 1441817135 ,O=97.55608189140362,W=271.02291 27199095,T=08-OCT- 2025:10:32:46,TimeScale=TDB,EQ UINOX=J2000,EPOCH=24-JUL- 2025:00:00:00,EpochTimeScale=TDB					EARTH		
Comments: Using JPL Horizons version #13 for orbital ephemeris Description=C2025K1v2 Extended=YES										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(3) C2025K1V2	STIS/CCD, ACQ, F28X50LP	MIRROR		GS ACQ SCENARI O ONEB1OR		5 Secs (5 Secs) [==>]	[1]
	2	G230L (STIS.sp.20 24825)	(3) C2025K1V2	STIS/NUV-MAMA, ACCUM, 52X0.5	G230L 2376 A				1300 Secs (1319 Secs) [==>1319.0 Secs]	[1]
	3		(3) C2025K1V2	STIS/CCD, ACCUM, F28X50LP	MIRROR				5 Secs (43 Secs) [==>21.5 Secs (Split 1)] [==>21.5 Secs (Split 2)]	[1]



Proposal 18135 - COS G160M FP1 (07) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (W...

Mon Feb 23 16:01:09 GMT 2026

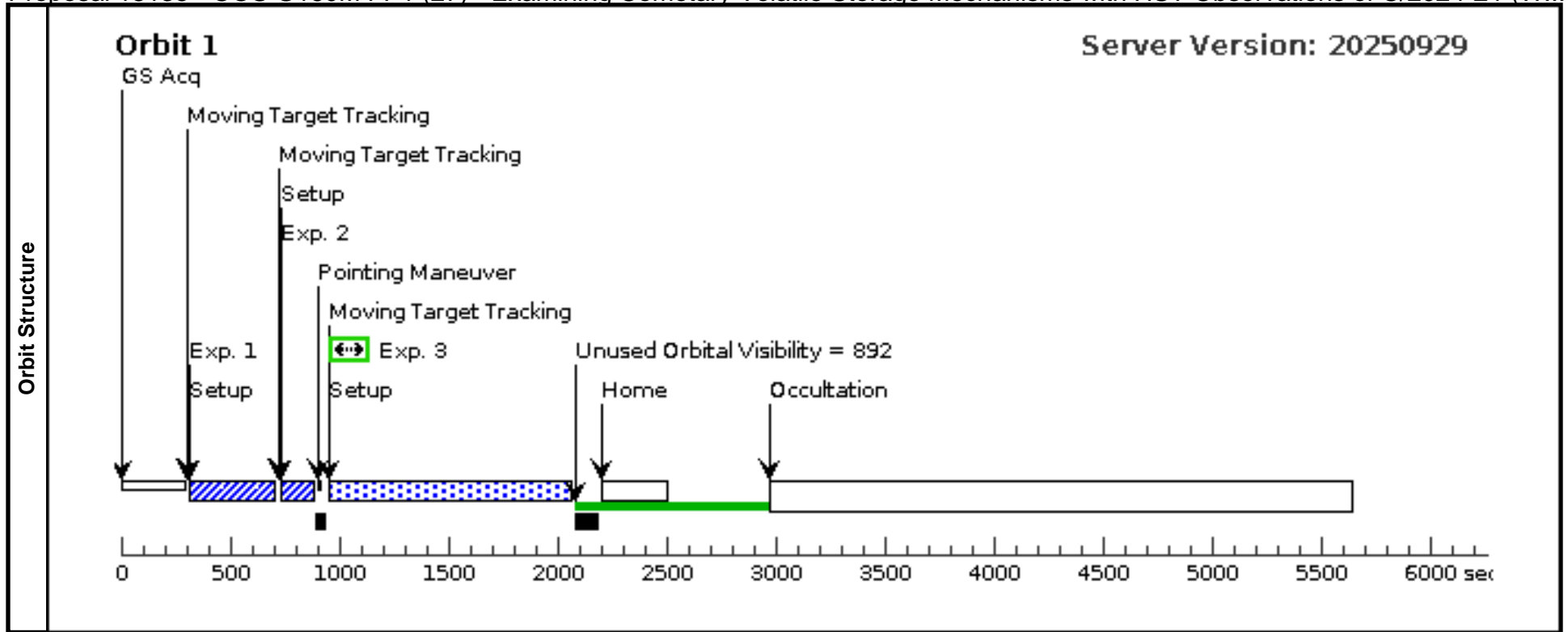
Visit	Proposal 18135, COS G160M FP1 (07), withdrawn Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00									
	(COS G160M FP1 (07)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser. (G160M (07.003)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details. (COS G160M FP1 (07)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(2)	C2025K1	TYPE=COMET,Q=0.3341775465431033,E=1.000258561145607,I=147.8642063372146,O=97.55768581282922,W=271.0280864615683,T=08-OCT-2025:10:32:26,TTimeScale=TDB,EQUINOX=J2000,EPOCH=23-JUL-2025:00:00:00,EpochTimeScale=TDB					EARTH		
<i>Comments: Description=C/2025 K1 Extended=YES</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.20 24840)	(2) C2025K1	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2	GS ACQ SCENARI O ONEB1OR		30 Secs (30 Secs) [==>]	[1]
	2	IMAGE (COS.im.20 24840)	(2) C2025K1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs) [==>]	[1]
	3	G160M (COS.sp.202 4812)	(2) C2025K1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=1; BUFFER-TIME=1200			1200 Secs (1200 Secs) [==>]	[1]



Proposal 18135 - COS G160M FP1 (27) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (W...

Mon Feb 23 16:01:09 GMT 2026

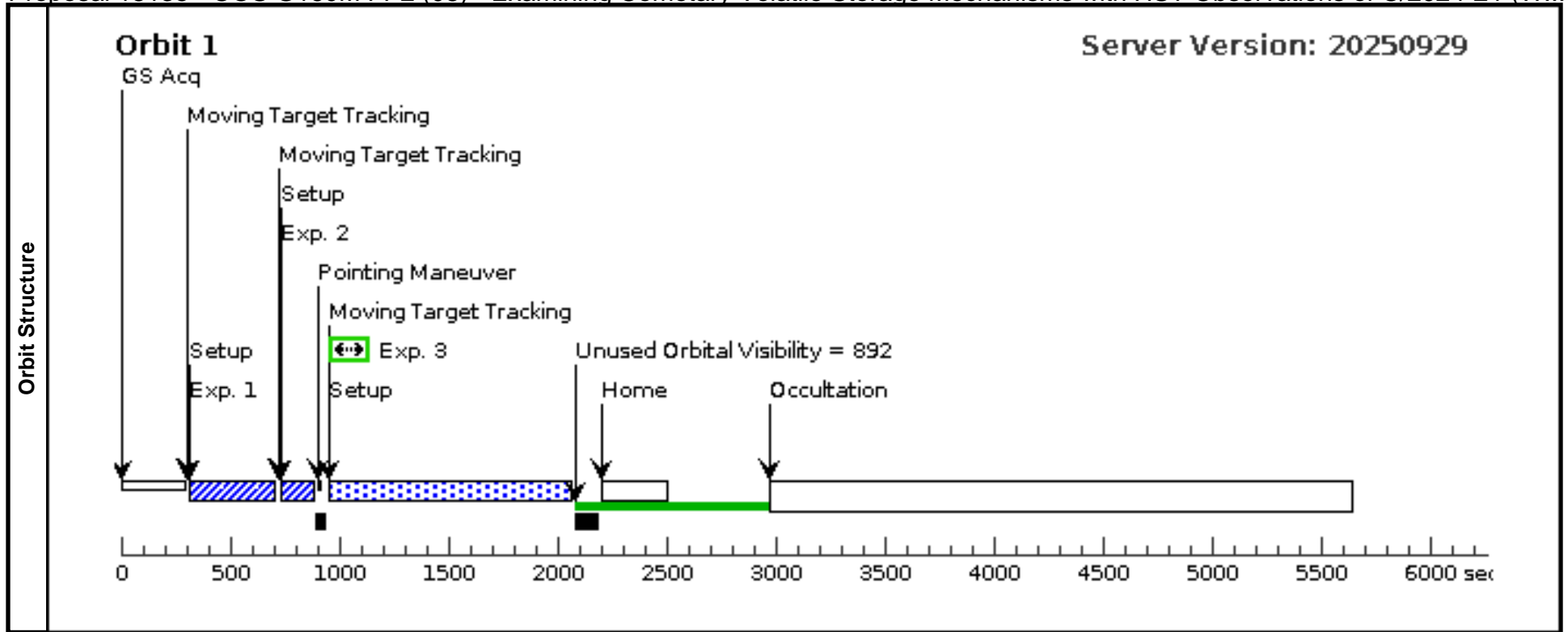
Visit	Proposal 18135, COS G160M FP1 (27), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00									
	(COS G160M FP1 (27)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser. (G160M (27.003)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details. (COS G160M FP1 (27)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(3)	C2025K1V2	TYPE=COMET,Q=0.3342083770239 909,E=1.000280680346033,I=147.865 1441817135 ,O=97.55608189140362,W=271.02291 27199095,T=08-OCT- 2025:10:32:46,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=24-JUL- 2025:00:00:00,EpochTimeScale=TDB					EARTH		
Comments: Using JPL Horizons version #13 for orbital ephemeris Description=C2025K1v2 Extended=YES										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.20 24840)	(3) C2025K1V2	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2	GS ACQ SCENARI O ONEB1OR		30 Secs (30 Secs) [==>]	[1]
	2	IMAGE (COS.im.20 24840)	(3) C2025K1V2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs) [==>]	[1]
	3	G160M (COS.sp.202 4812)	(3) C2025K1V2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=1; BUFFER-TIME=90 0			900 Secs (900 Secs) [==>]	[1]



Proposal 18135 - COS G160M FP2 (08) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (W...

Mon Feb 23 16:01:10 GMT 2026

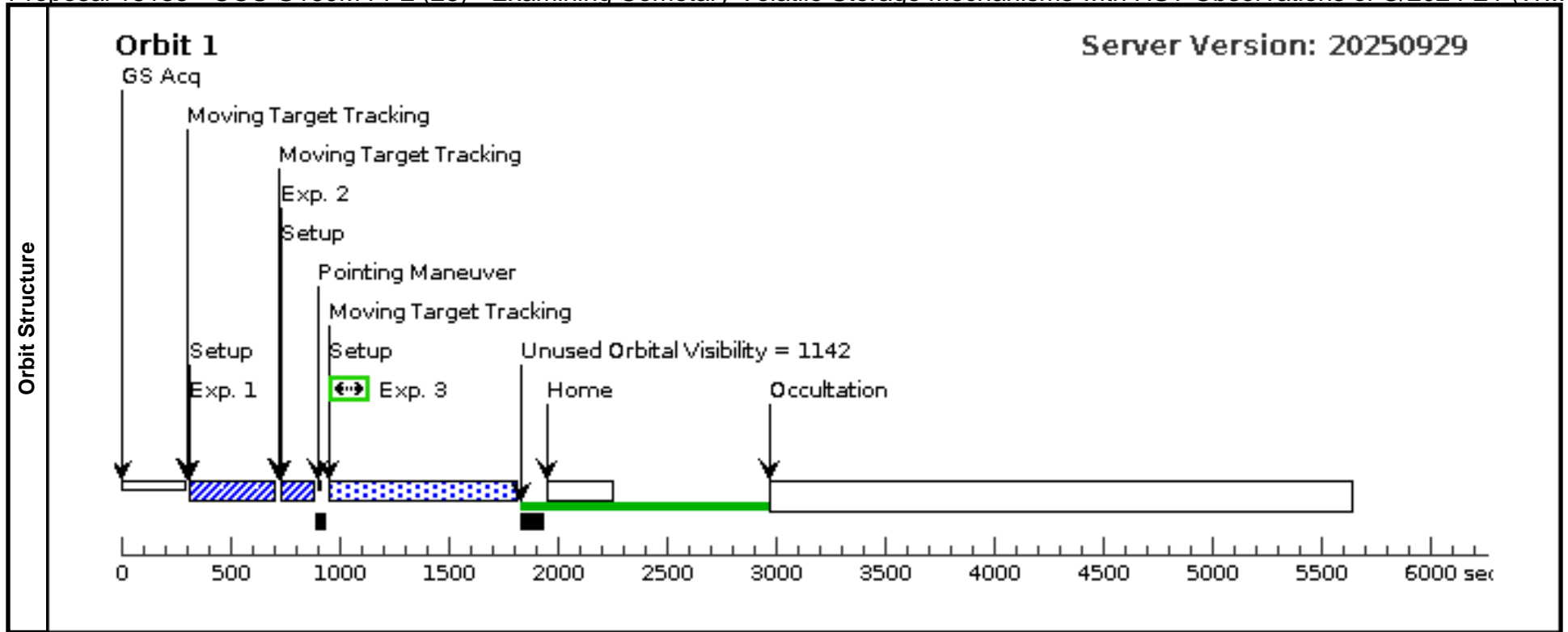
Visit	<p>Proposal 18135, COS G160M FP2 (08), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00</p>									
	<p>(COS G160M FP2 (08)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.</p> <p>(G160M (08.003)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(COS G160M FP2 (08)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(2)	C2025K1	TYPE=COMET,Q=0.3341775465431033,E=1.000258561145607,I=147.8642063372146,O=97.55768581282922,W=271.0280864615683,T=08-OCT-2025:10:32:26,TTimeScale=TDB,EQUINOX=J2000,EPOCH=23-JUL-2025:00:00:00,EpochTimeScale=TDB					EARTH		
<p><i>Comments: Description=C/2025 K1</i></p> <p><i>Extended=YES</i></p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.20 24840)	(2) C2025K1	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2	GS ACQ SCENARI O ONEB1OR		30 Secs (30 Secs)	
									[==>]	[1]
	2	IMAGE (COS.im.20 24840)	(2) C2025K1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs)	
								[==>]	[1]	
3	G160M (COS.sp.202 4812)	(2) C2025K1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=2; BUFFER-TIME=900			670 Secs (900 Secs)		
								[==>900.0 Secs]	[1]	



Proposal 18135 - COS G160M FP2 (28) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (W...

Mon Feb 23 16:01:10 GMT 2026

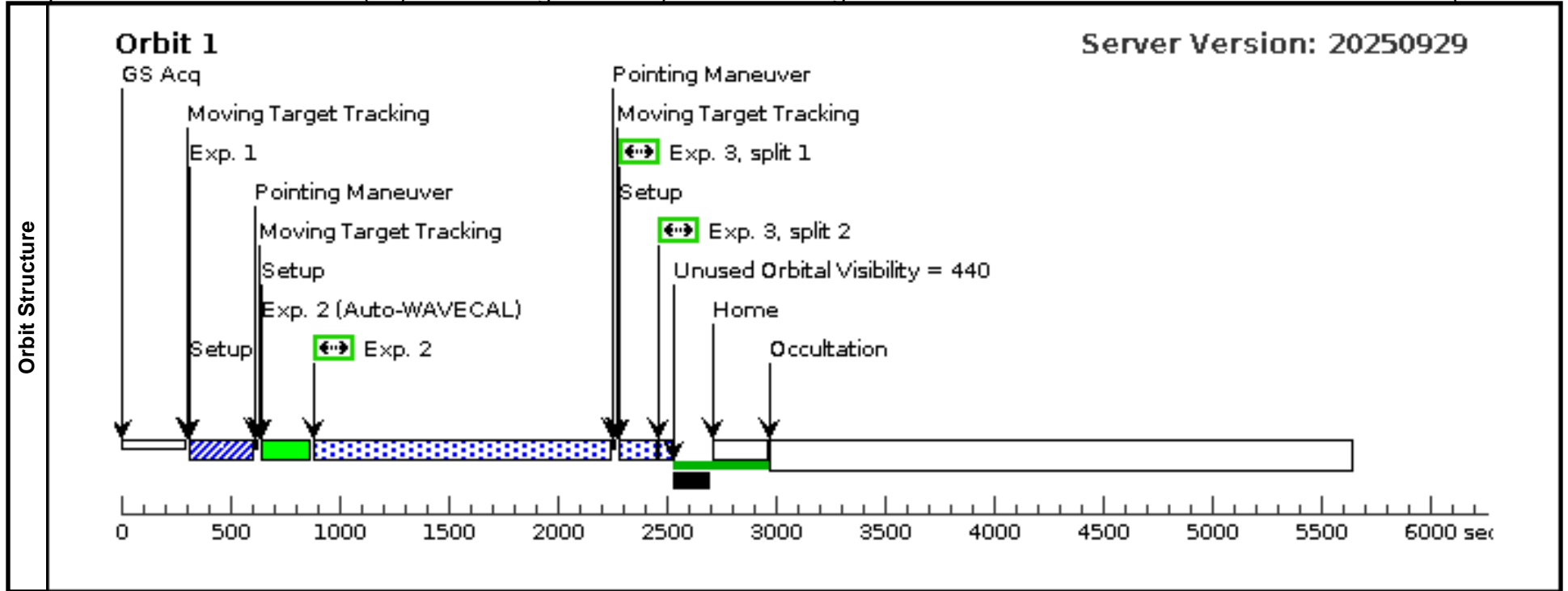
Visit	Proposal 18135, COS G160M FP2 (28), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00									
	(COS G160M FP2 (28)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser. (G160M (28.003)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details. (COS G160M FP2 (28)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(3)	C2025K1V2	TYPE=COMET,Q=0.3342083770239 909,E=1.000280680346033,I=147.865 1441817135 ,O=97.55608189140362,W=271.02291 27199095,T=08-OCT- 2025:10:32:46,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=24-JUL- 2025:00:00:00,EpochTimeScale=TDB					EARTH		
Comments: Using JPL Horizons version #13 for orbital ephemeris Description=C2025K1v2 Extended=YES										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.20 24840)	(3) C2025K1V2	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2	GS ACQ SCENARI O ONEB1OR		30 Secs (30 Secs) [==>]	[1]
	2	IMAGE (COS.im.20 24840)	(3) C2025K1V2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs) [==>]	[1]
	3	G160M (COS.sp.202 4812)	(3) C2025K1V2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=2; BUFFER-TIME=65 0			650 Secs (650 Secs) [==>]	[1]



Proposal 18135 - STIS G230L (09) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (Wierzc...

Mon Feb 23 16:01:10 GMT 2026

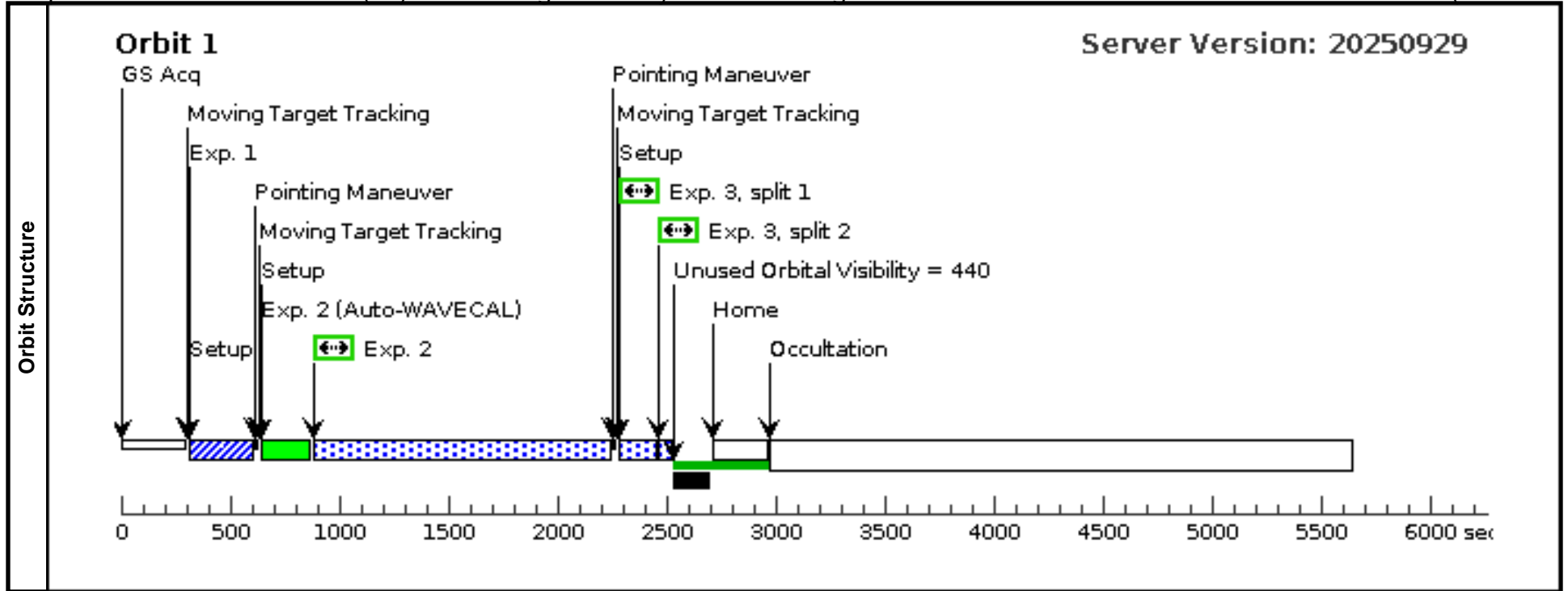
Visit	Proposal 18135, STIS G230L (09), withdrawn Diagnostic Status: Informational Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00									
	(STIS G230L (09)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(2)	C2025K1	TYPE=COMET,Q=0.3341775465431 033,E=1.000258561145607,I=147.864 2063372146 ,O=97.55768581282922,W=271.02808 64615683,T=08-OCT- 2025:10:32:26,TimeScale=TDB,EQ UINOX=J2000,EPOCH=23-JUL- 2025:00:00:00,EpochTimeScale=TDB					EARTH		
Comments: Description=C/2025 K1 Extended=YES										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(2) C2025K1	STIS/CCD, ACQ, F28X50LP	MIRROR		GS ACQ SCENARI O ONEB1OR		5 Secs (5 Secs) [==>]	[1]
	2	G230L (STIS.sp.20 24825)	(2) C2025K1	STIS/NUV-MAMA, ACCUM, 52X0.5	G230L 2376 A				1300 Secs (1319 Secs) [==>1319.0 Secs]	[1]
	3		(2) C2025K1	STIS/CCD, ACCUM, F28X50LP	MIRROR				5 Secs (43 Secs) [==>21.5 Secs (Split 1)] [==>21.5 Secs (Split 2)]	[1]



Proposal 18135 - STIS G230L (29) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (Wierzc...

Mon Feb 23 16:01:10 GMT 2026

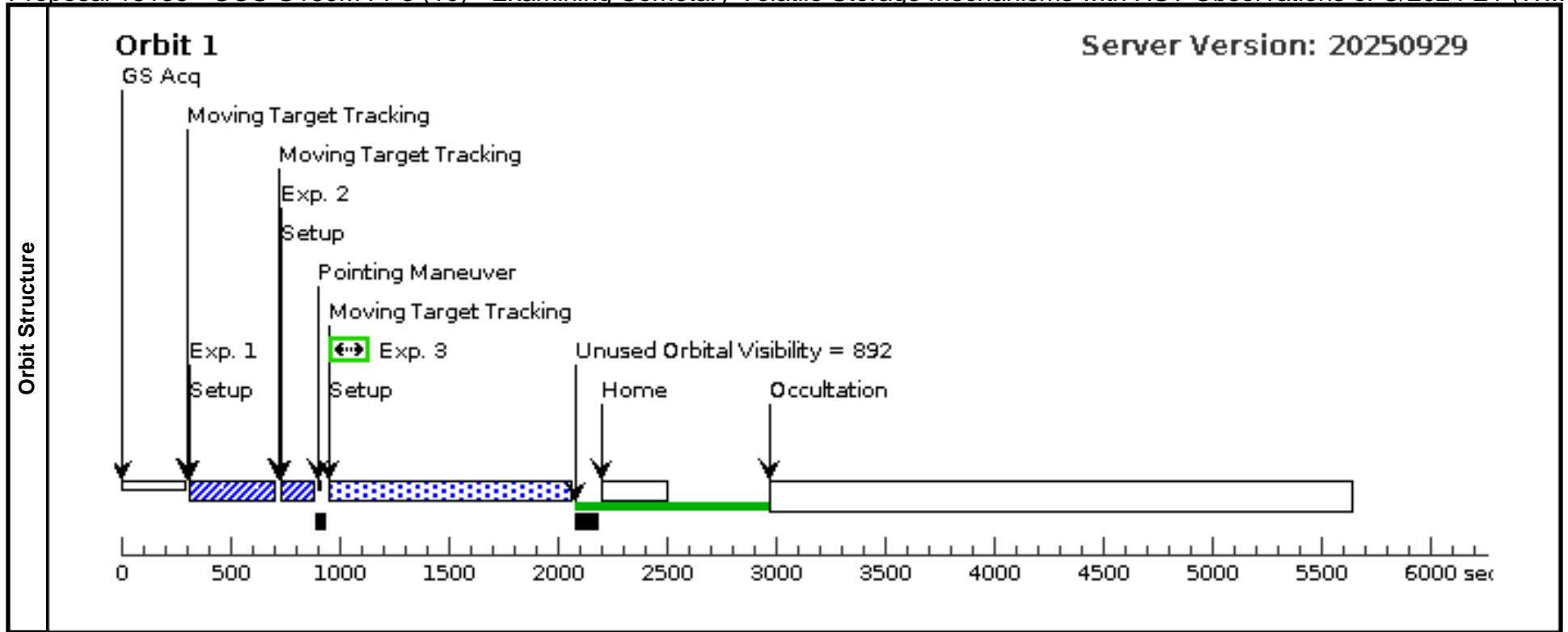
Visit	Proposal 18135, STIS G230L (29), completed Diagnostic Status: Informational Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00									
	(STIS G230L (29)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(3)	C2025K1V2	TYPE=COMET,Q=0.3342083770239 909,E=1.000280680346033,I=147.865 1441817135 ,O=97.55608189140362,W=271.02291 27199095,T=08-OCT- 2025:10:32:46,TimeScale=TDB,EQ UINOX=J2000,EPOCH=24-JUL- 2025:00:00:00,EpochTimeScale=TDB					EARTH		
Comments: Using JPL Horizons version #13 for orbital ephemeris Description=C2025K1v2 Extended=YES										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(3) C2025K1V2	STIS/CCD, ACQ, F28X50LP	MIRROR		GS ACQ SCENARI O ONEB1OR		5 Secs (5 Secs) [==>]	[1]
	2	G230L (STIS.sp.20 24825)	(3) C2025K1V2	STIS/NUV-MAMA, ACCUM, 52X0.5	G230L 2376 A				1300 Secs (1319 Secs) [==>1319.0 Secs]	[1]
	3		(3) C2025K1V2	STIS/CCD, ACCUM, F28X50LP	MIRROR				5 Secs (43 Secs) [==>21.5 Secs (Split 1)] [==>21.5 Secs (Split 2)]	[1]



Proposal 18135 - COS G160M FP3 (10) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (W...

Mon Feb 23 16:01:10 GMT 2026

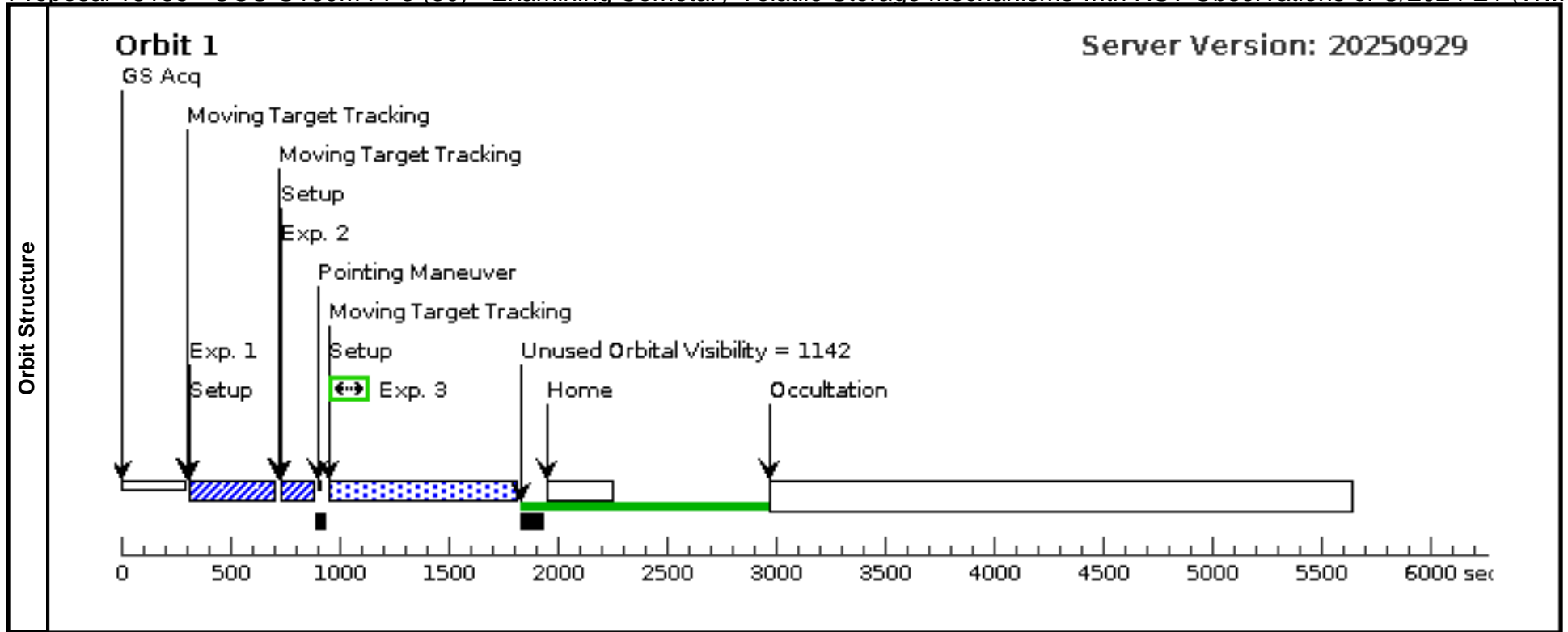
Visit	Proposal 18135, COS G160M FP3 (10), withdrawn Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00									
	(COS G160M FP3 (10)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser. (G160M (10.003)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details. (COS G160M FP3 (10)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(2)	C2025K1	TYPE=COMET,Q=0.3341775465431033,E=1.000258561145607,I=147.8642063372146,O=97.55768581282922,W=271.0280864615683,T=08-OCT-2025:10:32:26,TTimeScale=TDB,EQUINOX=J2000,EPOCH=23-JUL-2025:00:00:00,EpochTimeScale=TDB					EARTH		
<i>Comments: Description=C/2025 K1 Extended=YES</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.20 24840)	(2) C2025K1	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2	GS ACQ SCENARI O ONEB1OR		30 Secs (30 Secs) [==>]	[1]
	2	IMAGE (COS.im.20 24840)	(2) C2025K1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs) [==>]	[1]
	3	G160M (COS.sp.202 4812)	(2) C2025K1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=90 0			670 Secs (900 Secs) [==>900.0 Secs]	[1]



Proposal 18135 - COS G160M FP3 (30) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (W...

Mon Feb 23 16:01:10 GMT 2026

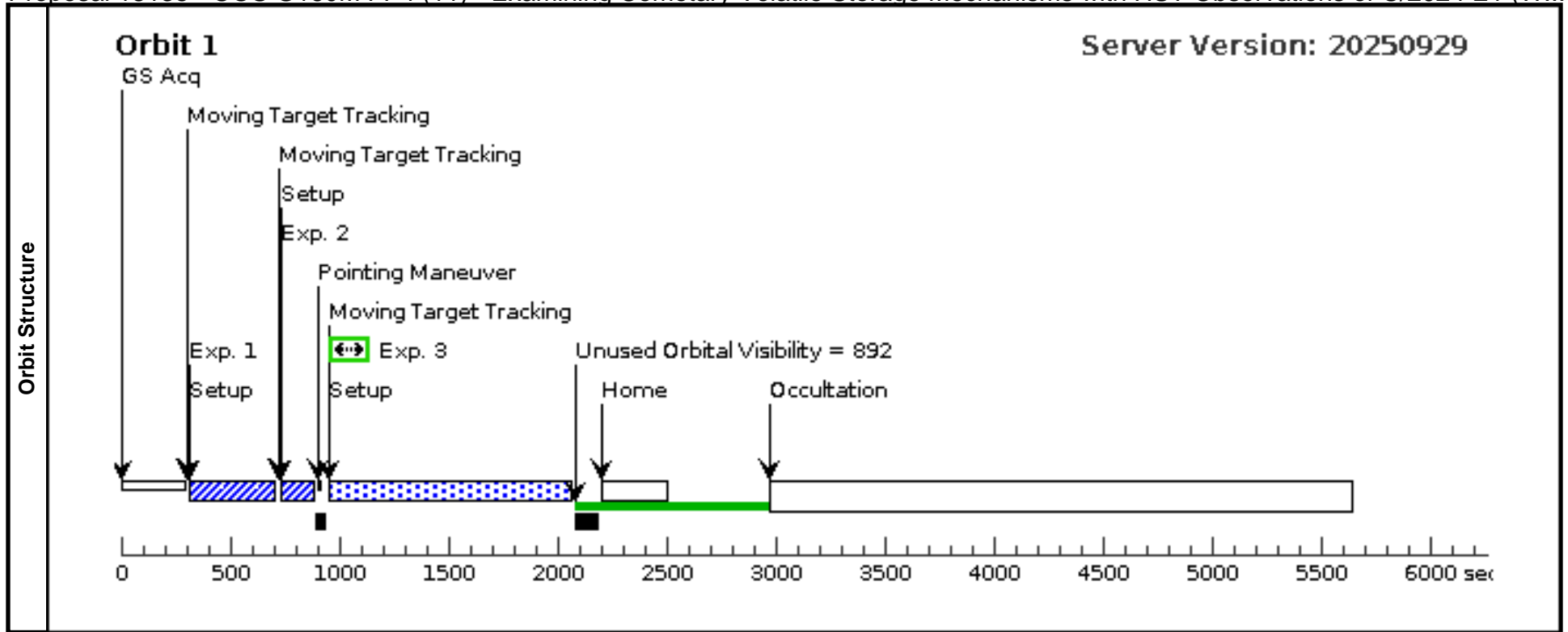
Visit	Proposal 18135, COS G160M FP3 (30), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00									
	Diagnosics (COS G160M FP3 (30)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser. (G160M (30.003)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details. (COS G160M FP3 (30)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(3)	C2025K1V2	TYPE=COMET,Q=0.3342083770239 909,E=1.000280680346033,I=147.865 1441817135 ,O=97.55608189140362,W=271.02291 27199095,T=08-OCT- 2025:10:32:46,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=24-JUL- 2025:00:00:00,EpochTimeScale=TDB					EARTH		
<i>Comments: Using JPL Horizons version #13 for orbital ephemeris</i> Description=C2025K1v2 Extended=YES										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.20 24840)	(3) C2025K1V2	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2	GS ACQ SCENARI O ONEB1OR		30 Secs (30 Secs) [==>]	[1]
	2	IMAGE (COS.im.20 24840)	(3) C2025K1V2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs) [==>]	[1]
	3	G160M (COS.sp.202 4812)	(3) C2025K1V2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=65 0			650 Secs (650 Secs) [==>]	[1]



Proposal 18135 - COS G160M FP4 (11) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (W...

Mon Feb 23 16:01:10 GMT 2026

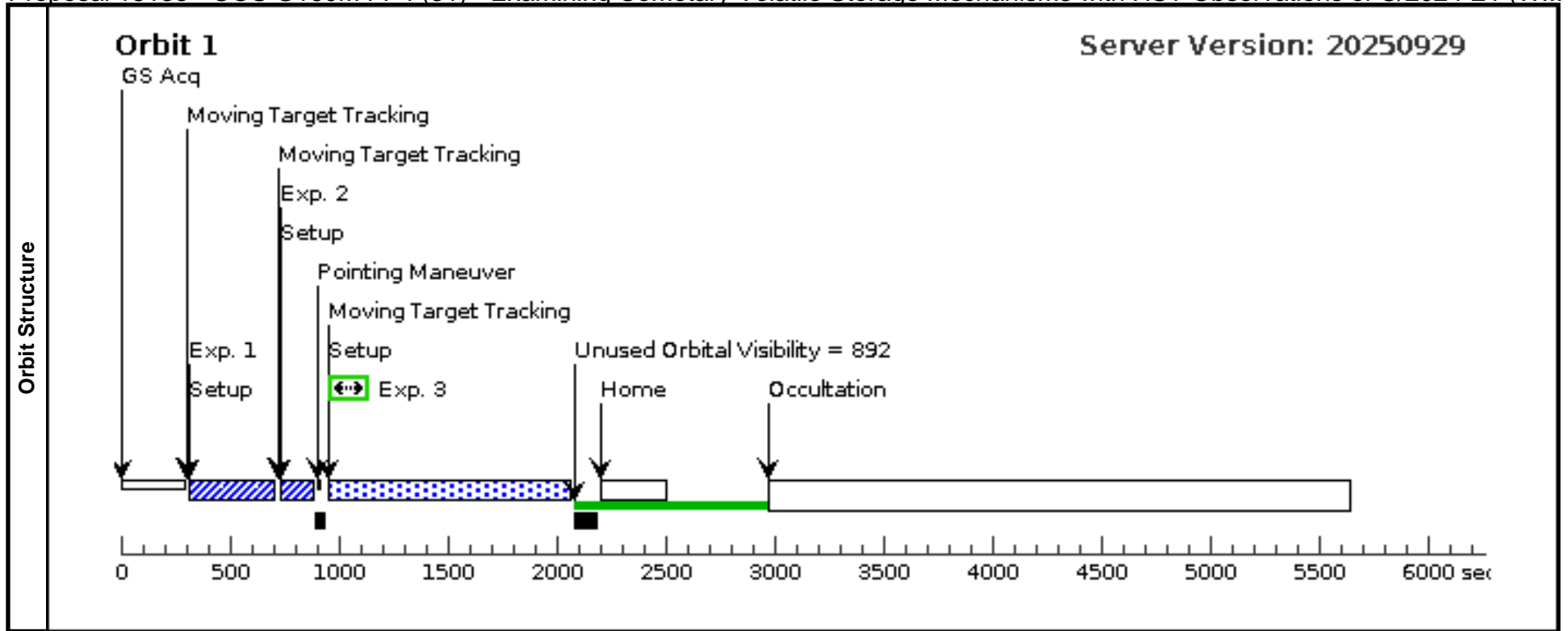
Visit	Proposal 18135, COS G160M FP4 (11), withdrawn Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00									
	(COS G160M FP4 (11)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser. (G160M (11.003)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details. (COS G160M FP4 (11)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(2)	C2025K1	TYPE=COMET,Q=0.3341775465431033,E=1.000258561145607,I=147.8642063372146,O=97.55768581282922,W=271.0280864615683,T=08-OCT-2025:10:32:26,TTimeScale=TDB,EQUINOX=J2000,EPOCH=23-JUL-2025:00:00:00,EpochTimeScale=TDB					EARTH		
<i>Comments: Description=C/2025 K1 Extended=YES</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.20 24840)	(2) C2025K1	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2	GS ACQ SCENARI O ONEB1OR		30 Secs (30 Secs) [==>]	[1]
	2	IMAGE (COS.im.20 24840)	(2) C2025K1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs) [==>]	[1]
	3	G160M (COS.sp.202 4812)	(2) C2025K1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=90 0			670 Secs (900 Secs) [==>900.0 Secs]	[1]



Proposal 18135 - COS G160M FP4 (31) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (W...

Mon Feb 23 16:01:10 GMT 2026

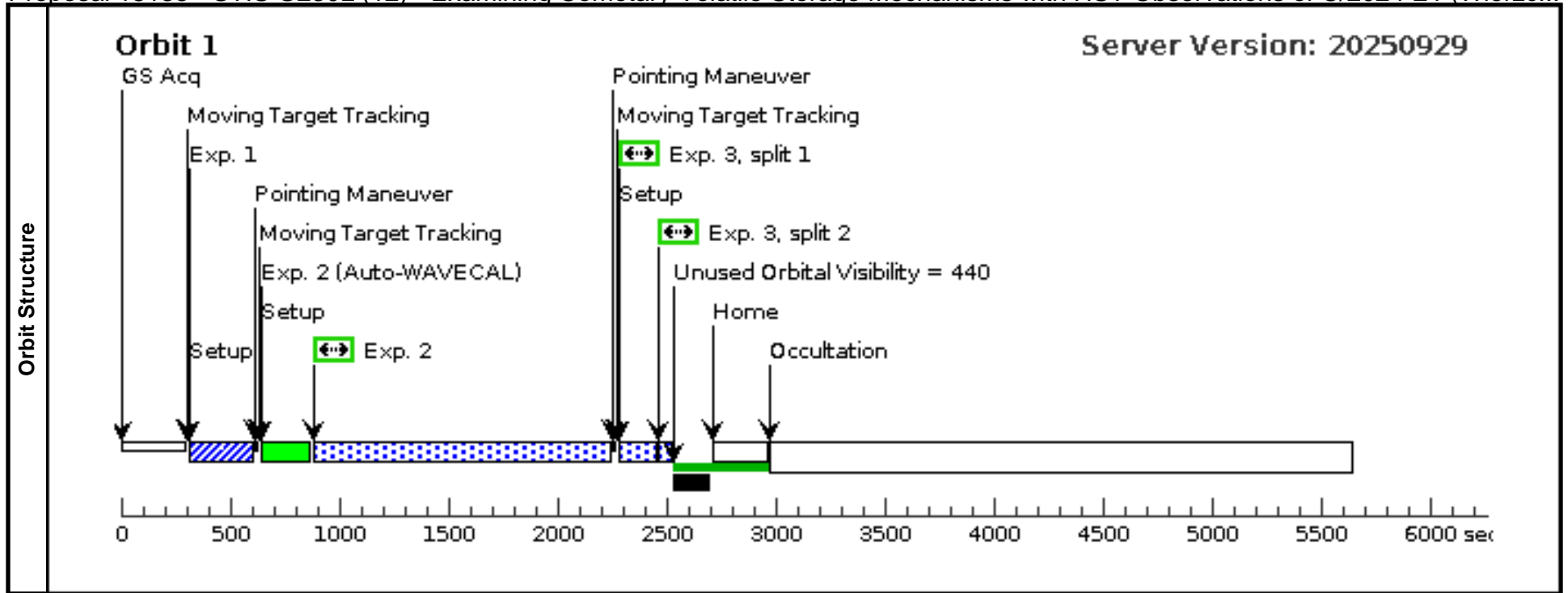
Visit	Proposal 18135, COS G160M FP4 (31), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00									
	(COS G160M FP4 (31)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser. (G160M (31.003)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details. (COS G160M FP4 (31)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(3)	C2025K1V2	TYPE=COMET,Q=0.3342083770239 909,E=1.000280680346033,I=147.865 1441817135 ,O=97.55608189140362,W=271.02291 27199095,T=08-OCT- 2025:10:32:46,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=24-JUL- 2025:00:00:00,EpochTimeScale=TDB					EARTH		
Comments: Using JPL Horizons version #13 for orbital ephemeris Description=C2025K1v2 Extended=YES										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.20 24840)	(3) C2025K1V2	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	SCAN-SIZE=2	GS ACQ SCENARI O ONEB1OR		30 Secs (30 Secs) [==>]	[1]
	2	IMAGE (COS.im.20 24840)	(3) C2025K1V2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs) [==>]	[1]
	3	G160M (COS.sp.202 4812)	(3) C2025K1V2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=90 0			670 Secs (900 Secs) [==>900.0 Secs]	[1]



Proposal 18135 - STIS G230L (12) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (Wierzc...

Mon Feb 23 16:01:10 GMT 2026

Visit	Proposal 18135, STIS G230L (12), withdrawn Diagnostic Status: Informational Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00									
	(STIS G230L (12)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(2)	C2025K1	TYPE=COMET,Q=0.3341775465431 033,E=1.000258561145607,I=147.864 2063372146 ,O=97.55768581282922,W=271.02808 64615683,T=08-OCT- 2025:10:32:26,TimeScale=TDB,EQ UINOX=J2000,EPOCH=23-JUL- 2025:00:00:00,EpochTimeScale=TDB					EARTH		
Comments: Description=C/2025 K1 Extended=YES										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(2) C2025K1	STIS/CCD, ACQ, F28X50LP	MIRROR		GS ACQ SCENARI O ONEB1OR		5 Secs (5 Secs) [==>]	[1]
	2	G230L (STIS.sp.20 24825)	(2) C2025K1	STIS/NUV-MAMA, ACCUM, 52X0.5	G230L 2376 A				1300 Secs (1319 Secs) [==>1319.0 Secs]	[1]
	3		(2) C2025K1	STIS/CCD, ACCUM, F28X50LP	MIRROR				5 Secs (43 Secs) [==>21.5 Secs (Split 1)] [==>21.5 Secs (Split 2)]	[1]



Proposal 18135 - STIS G230L (32) - Examining Cometary Volatile Storage Mechanisms with HST Observations of C/2024 E1 (Wierzc...

Mon Feb 23 16:01:10 GMT 2026

Visit	Proposal 18135, STIS G230L (32), completed Diagnostic Status: Informational Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: BETWEEN 01-NOV-2025:00:00:00 AND 30-NOV-2025:00:00:00									
	(STIS G230L (32)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(3)	C2025K1V2	TYPE=COMET,Q=0.3342083770239 909,E=1.000280680346033,I=147.865 1441817135 ,O=97.55608189140362,W=271.02291 27199095,T=08-OCT- 2025:10:32:46,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=24-JUL- 2025:00:00:00,EpochTimeScale=TDB					EARTH		
Comments: Using JPL Horizons version #13 for orbital ephemeris Description=C2025K1v2 Extended=YES										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(3) C2025K1V2	STIS/CCD, ACQ, F28X50LP	MIRROR		GS ACQ SCENARI O ONEB1OR		5 Secs (5 Secs) [==>]	[1]
	2	G230L (STIS.sp.20 24825)	(3) C2025K1V2	STIS/NUV-MAMA, ACCUM, 52X0.5	G230L 2376 A				1300 Secs (1319 Secs) [==>1319.0 Secs]	[1]
	3		(3) C2025K1V2	STIS/CCD, ACCUM, F28X50LP	MIRROR				5 Secs (43 Secs) [==>21.5 Secs (Split 1)] [==>21.5 Secs (Split 2)]	[1]

