



# 17807 - Flash Thursday: Early-time UV Spectroscopy of Type II Supernovae with HST

Cycle: 32, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

## INVESTIGATORS

<i>Name</i>	<i>Institution</i>
<b>Dr. Wynn Vicente Jacobson-Galan (PI) (Contact)</b>	<b>California Institute of Technology</b>
Mr. Kaustav Kashyap Das (CoI) (CoPI) (Contact)	California Institute of Technology
Dr. Mansi Kasliwal (CoI)	California Institute of Technology
Dr. Luc Dessart (CoI) (ESA Member)	CNRS, Institut d'Astrophysique de Paris
Dr. Raffaella Margutti (CoI)	University of California - Berkeley
Prof. Ryan Chornock (CoI)	University of California - Berkeley
Prof. Ryan Foley (CoI)	University of California - Santa Cruz
Dr. Ori Dosovitz Fox (CoI)	Space Telescope Science Institute
Dr. Armin Rest (CoI)	Space Telescope Science Institute
Dr. Charles Kilpatrick (CoI)	Northwestern University
Dr. Matthew Ryan Siebert (CoI)	Space Telescope Science Institute
Kyle Davis (CoI)	University of California - Santa Cruz
Dr. Qinan Wang (CoI)	Massachusetts Institute of Technology
Dr. Adam Miller (CoI)	Northwestern University
Dr. Jesper Sollerman (CoI) (ESA Member)	Stockholm University
Mr. Erez Arie Zimmerman (CoI)	Weizmann Institute of Science
Prof. Avishay Gal-Yam (CoI)	Weizmann Institute of Science
Dr. Andrew S. Fruchter (CoI)	Space Telescope Science Institute
Dr. Christoffer Fremling (CoI)	California Institute of Technology

**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	(9) ZTF24ABYMEET CCDFLAT	STIS/CCD	3	06-Oct-2025 16:00:36.0	yes
02	(10) 2025NGI CCDFLAT	STIS/CCD	3	06-Oct-2025 16:00:37.0	yes
03	(11) 2025RYZ CCDFLAT	STIS/CCD	3	06-Oct-2025 16:00:38.0	yes
04	(12) 2025WHV CCDFLAT	STIS/CCD	3	06-Oct-2025 16:00:39.0	yes
05	(13) ZTF25ABVBCZT CCDFLAT	STIS/CCD	5	06-Oct-2025 16:00:41.0	yes
06	(1) SUPERNOVA1 CCDFLAT	STIS/CCD	3	06-Oct-2025 16:00:42.0	yes
07	(1) SUPERNOVA1 CCDFLAT	STIS/CCD	3	06-Oct-2025 16:00:43.0	yes

23 Total Orbits Used

**ABSTRACT**

Ultraviolet (UV) spectroscopy of type II supernovae (SNe II) in the first week post-explosion remains a largely uncharted observational phase space. Following red supergiant shock breakout, early-time UV emission harbors unique information on the structure and composition of the most local progenitor environment; this being detectable through narrow emission lines (aka. IIn-like or "flash features") that arise from shock ionization of local circumstellar material (CSM). Furthermore, UV spectroscopy of young core-collapse SNe encapsulates the interplay of density, ionization, and temperature within the outermost layers of SN ejecta. Here we propose UV/optical spectral observations with the HST STIS CCD through the Flex Thursday ToO program to obtain up to 7 spectra of SNe II in the first week after explosion. This program will increase the number of SNe II with early UV spectroscopy by more than a factor of 2, enabling precise constraints to be placed on the diversity of red supergiant atmospheres and SN II ejecta structure through the use of radiation hydrodynamics and nLTE radiative transfer codes (e.g., HERACLES, CMFGEN). Furthermore, this program will be essential preparation for the planned launch of the Ultraviolet Explorer (UVEX) telescope and its study of SNe II through UV spectroscopy.

**OBSERVING DESCRIPTION**

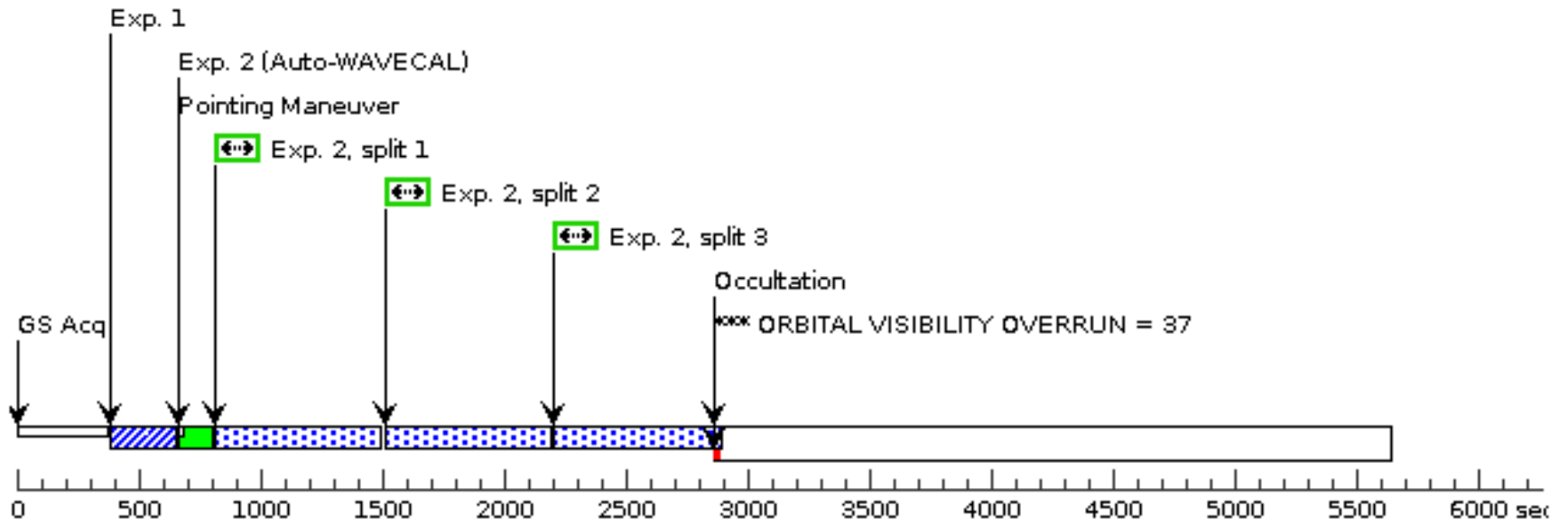
ToO program through flex thursday

Proposal 17807 - ToO-1 (01) - Flash Thursday: Early-time UV Spectroscopy of Type II Supernovae with HST

Mon Oct 06 20:00:44 GMT 2025

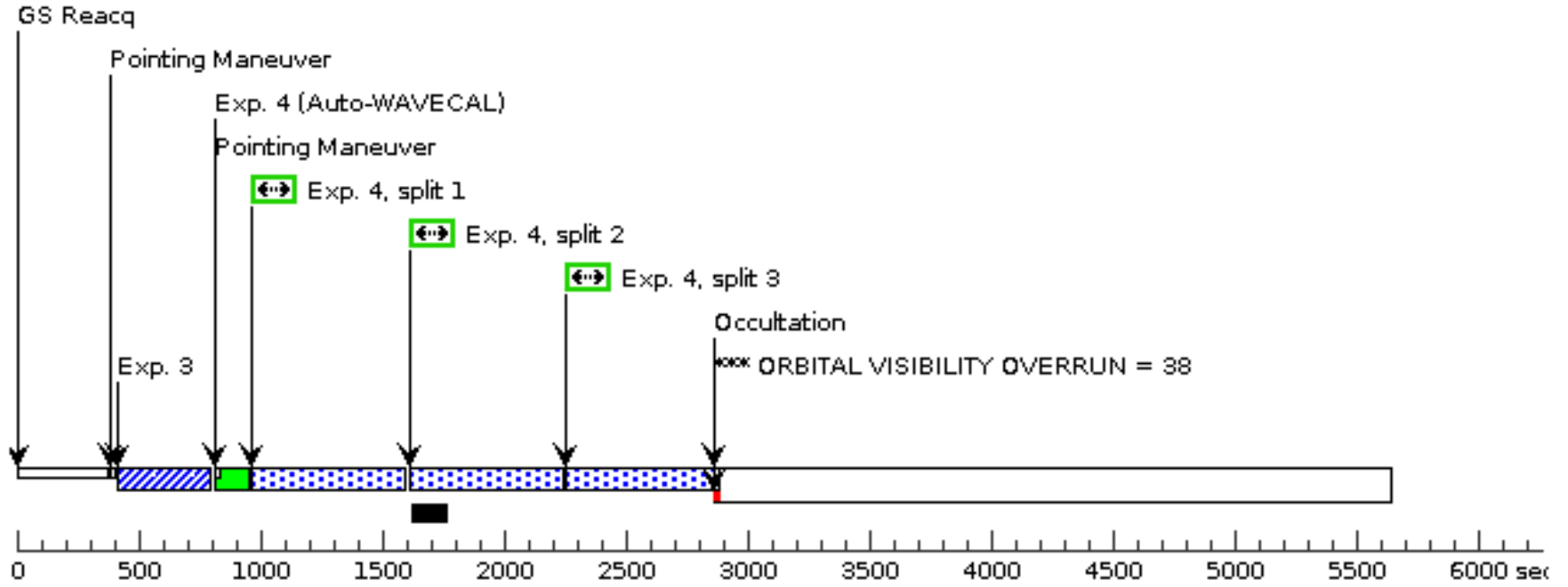
<b>Visit</b>	<b>Proposal 17807, ToO-1 (01), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ON HOLD ; TOO FLEX DAY <i>On Hold Comments: Activate upon discovery of first viable target</i>									
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<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(9)	ZTF24ABYMEET	RA: 22 26 1.5800 (336.5065833d) Dec: +37 36 7.45 (37.60207d) Equinox: J2000		V=18	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[SUPERNOVA TYPE II]										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1		(9) ZTF24ABYMEE T	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs) [==>]	[1]
	2		(9) ZTF24ABYMEE T	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3			1950 Secs (1950 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]
	3		(9) ZTF24ABYMEE T	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs) [==>]	[2]
	4		(9) ZTF24ABYMEE T	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3			1795 Secs (1795 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[2]
	5		(9) ZTF24ABYMEE T	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=2			1069 Secs (1069 Secs) [==>(Split 1)] [==>(Split 2)]	[3]
	6		(9) ZTF24ABYMEE T	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=2			1068 Secs (1068 Secs) [==>(Split 1)] [==>(Split 2)]	[3]
	7		CCDFLAT	STIS/CCD, ACCUM, 52X0.1	G750L 7751 A				[==>(Copy 1)] [==>(Copy 2)]	[3]

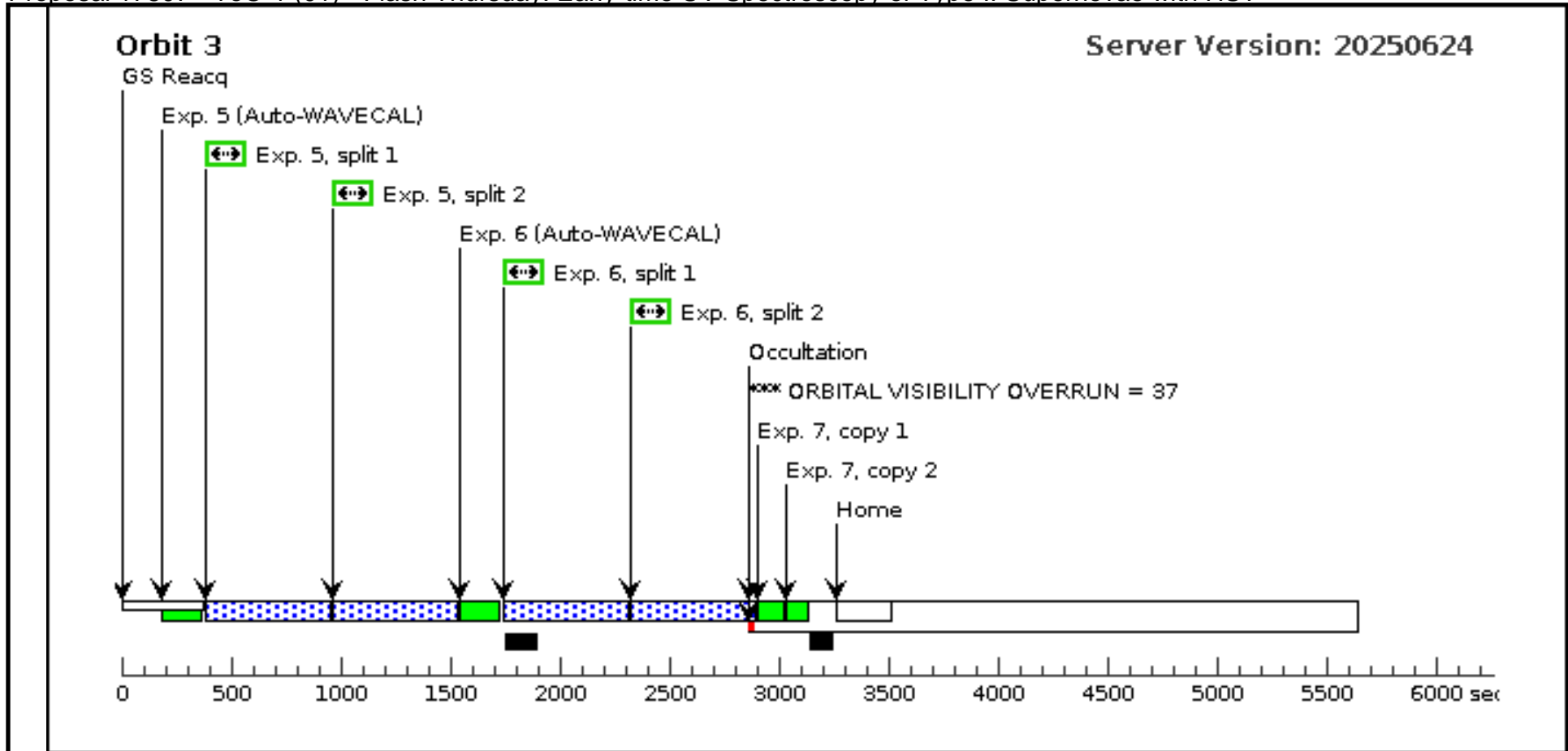
Orbit 1



Orbit Structure

**Orbit 2**



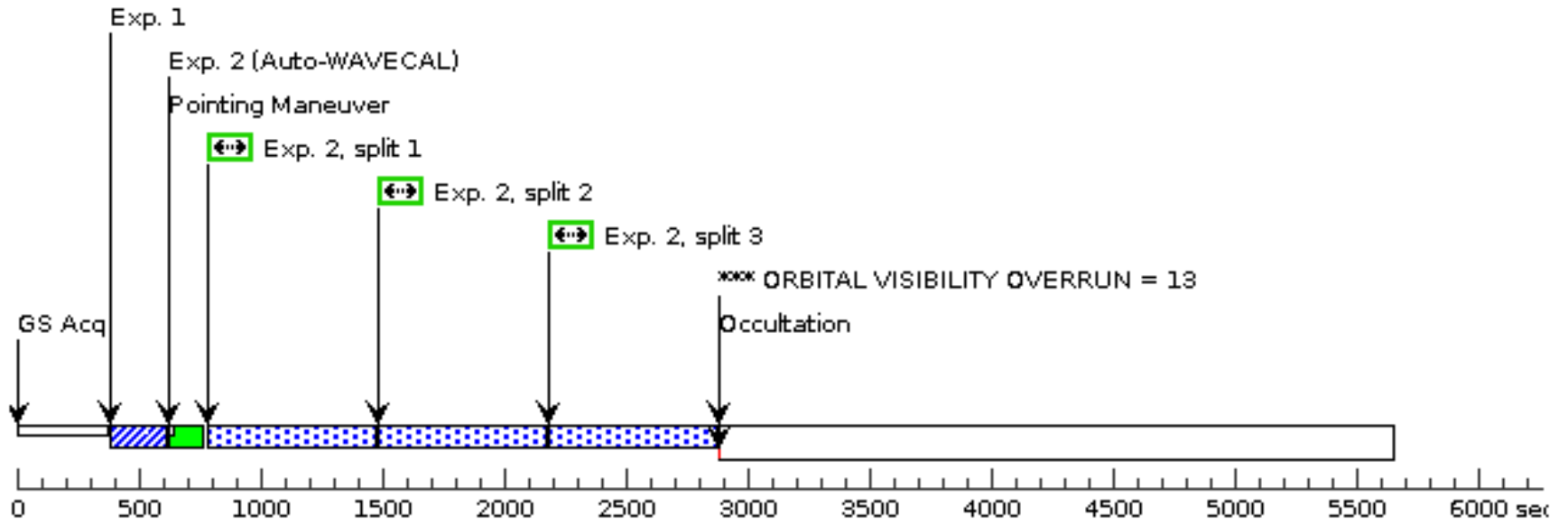


Proposal 17807 - ToO-2 (02) - Flash Thursday: Early-time UV Spectroscopy of Type II Supernovae with HST

Mon Oct 06 20:00:44 GMT 2025

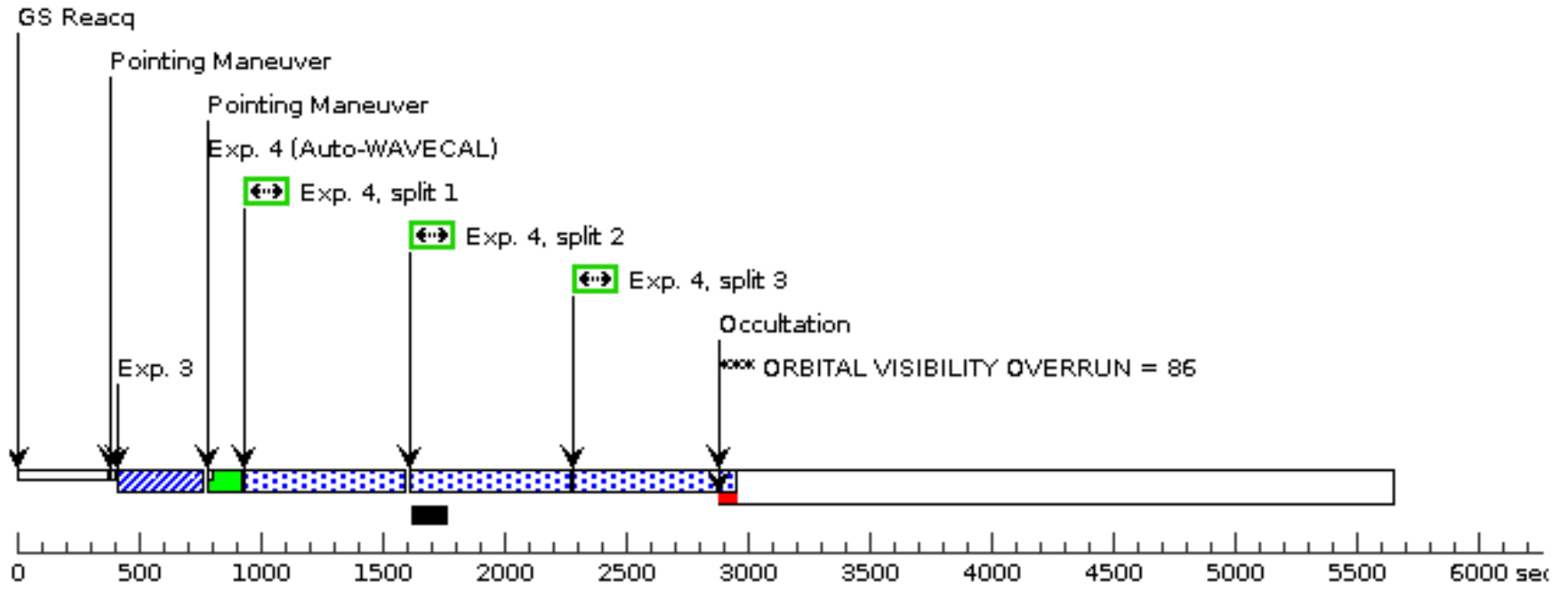
<b>Visit</b>	<b>Proposal 17807, ToO-2 (02), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ON HOLD ; TOO FLEX DAY <i>On Hold Comments: Activate upon discovery of first viable target</i>									
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<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(10)	2025NGI	RA: 21 12 11.0000 (318.0458333d) Dec: -57 16 17.67 (-57.27157d) Equinox: J2000		V=18	Reference Frame: ICRS				
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA]									
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(10) 2025NGI		STIS/CCD, ACQ, F28X50LP	MIRROR				2 Secs (2 Secs)	
									[==>]	[1]
	2	(10) 2025NGI		STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3			1970 Secs (1970 Secs)	
									[==>(Split 1)]	
									[==>(Split 2)]	[1]
									[==>(Split 3)]	
	3	(10) 2025NGI		STIS/CCD, ACQ, F28X50LP	MIRROR				2 Secs (2 Secs)	
								[==>]	[2]	
4	(10) 2025NGI		STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3			1890 Secs (1890 Secs)		
								[==>(Split 1)]		
								[==>(Split 2)]	[2]	
								[==>(Split 3)]		
5	(10) 2025NGI		STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=2			1080 Secs (1080 Secs)		
								[==>(Split 1)]		
								[==>(Split 2)]	[3]	
6	(10) 2025NGI		STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=2			1080 Secs (1080 Secs)		
								[==>(Split 1)]		
								[==>(Split 2)]	[3]	
7	CCDFLAT		STIS/CCD, ACCUM, 52X0.1	G750L 7751 A				[==>(Copy 1)]		
								[==>(Copy 2)]	[3]	

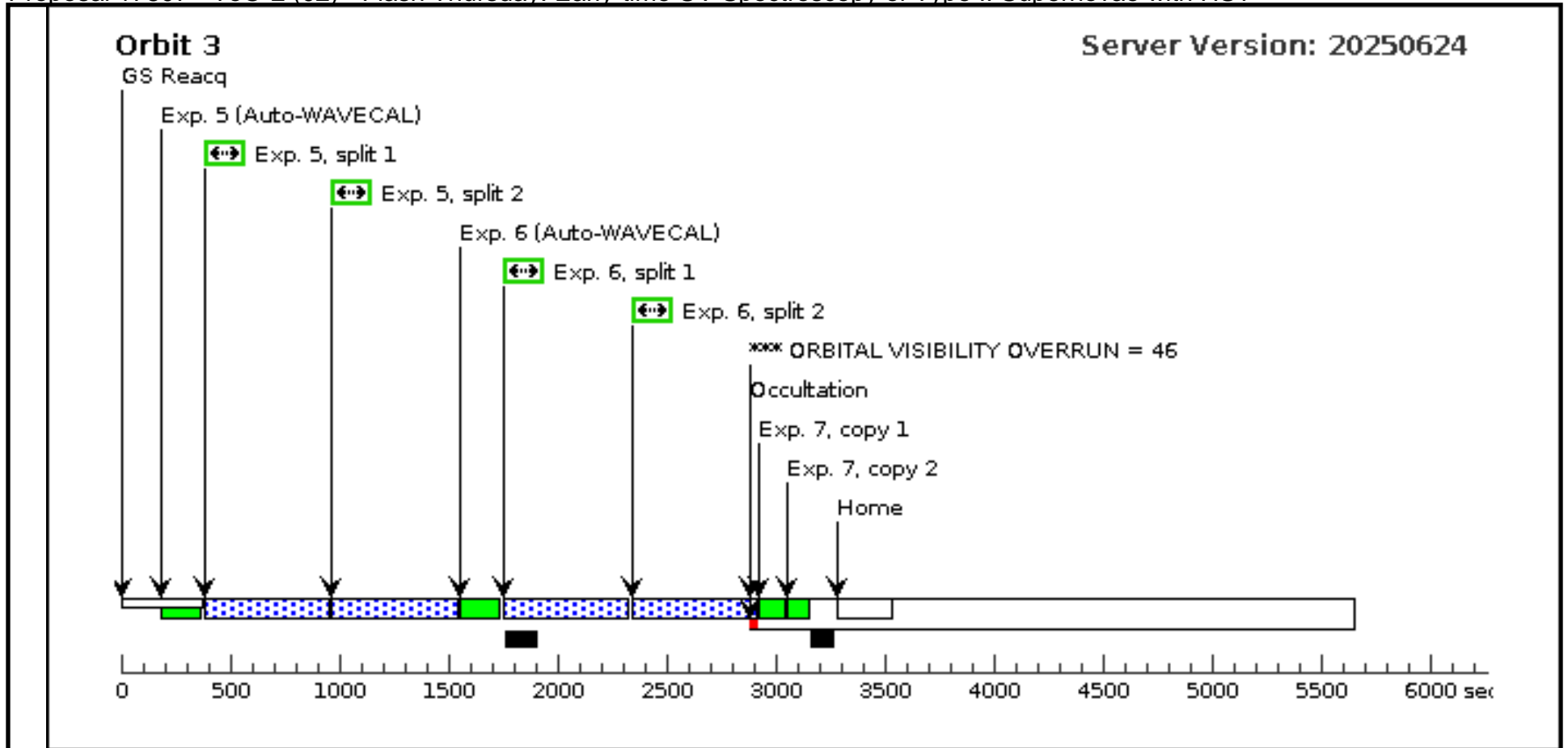
Orbit 1



Orbit Structure

**Orbit 2**



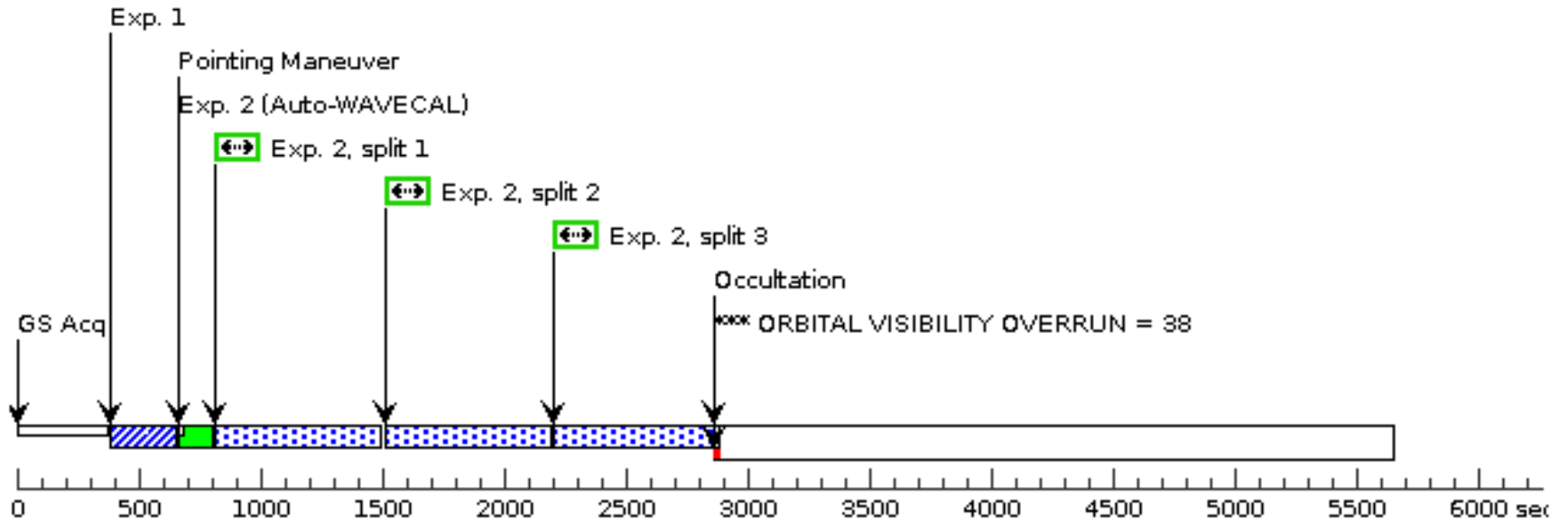


Proposal 17807 - ToO-3 (03) - Flash Thursday: Early-time UV Spectroscopy of Type II Supernovae with HST

Mon Oct 06 20:00:44 GMT 2025

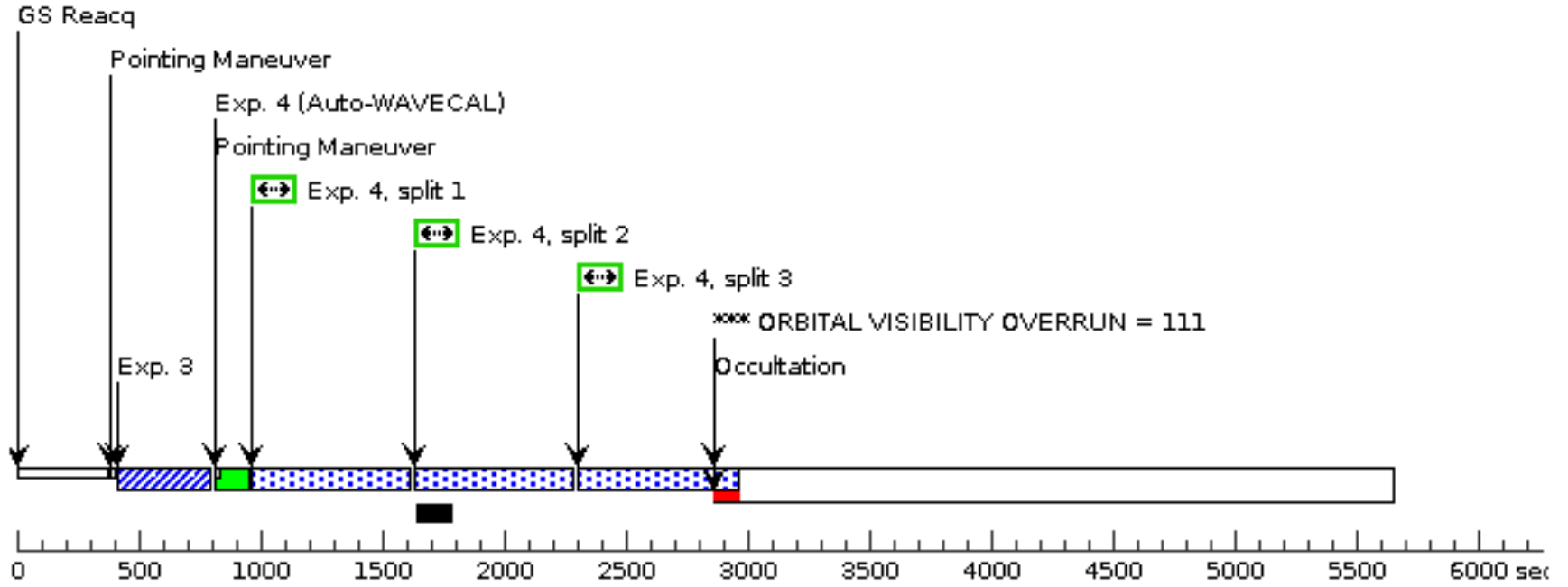
<b>Visit</b>	<b>Proposal 17807, ToO-3 (03), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ON HOLD ; TOO FLEX DAY <i>On Hold Comments: Activate upon discovery of first viable target</i>									
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<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(11)	2025RYZ	RA: 22 08 44.8700 (332.1869583d) Dec: -27 51 12.97 (-27.85360d) Equinox: J2000		V=18	Reference Frame: ICRS				
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA]										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(11) 2025RYZ		STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs)	
									[==>]	[1]
	2	(11) 2025RYZ		STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3			1945 Secs (1945 Secs)	
									[==>(Split 1)]	
									[==>(Split 2)]	[1]
									[==>(Split 3)]	
	3	(11) 2025RYZ		STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs)	
								[==>]	[2]	
4	(11) 2025RYZ		STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3			1865 Secs (1865 Secs)		
								[==>(Split 1)]		
								[==>(Split 2)]	[2]	
								[==>(Split 3)]		
5	(11) 2025RYZ		STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=2			1080 Secs (1080 Secs)		
								[==>(Split 1)]		
								[==>(Split 2)]	[3]	
6	(11) 2025RYZ		STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=2			1060 Secs (1060 Secs)		
								[==>(Split 1)]		
								[==>(Split 2)]	[3]	
7	CCDFLAT		STIS/CCD, ACCUM, 52X0.1	G750L 7751 A				25 Secs X 2 (50 Secs)		
								[==>(Copy 1)]		
								[==>(Copy 2)]	[3]	

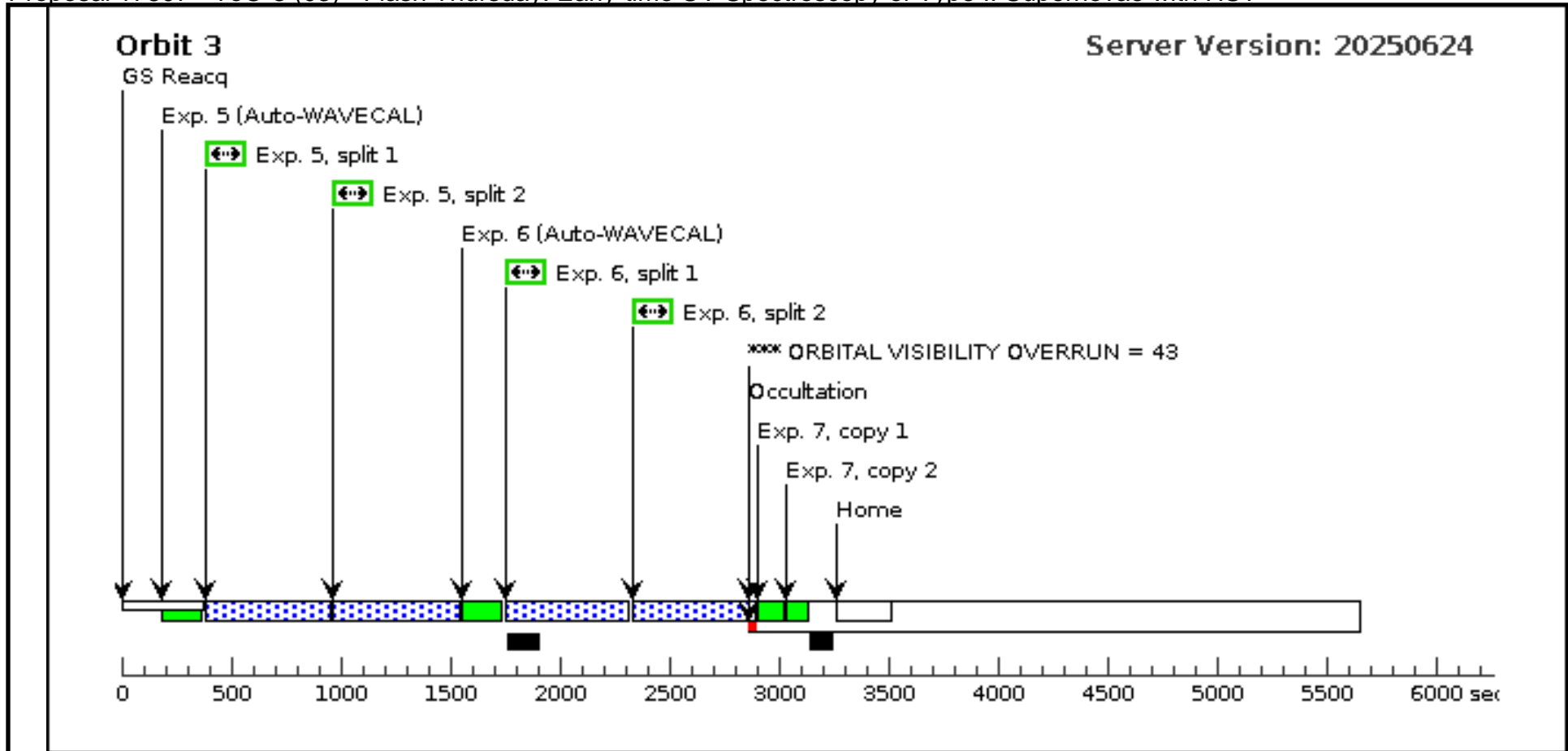
Orbit 1



Orbit Structure

### Orbit 2



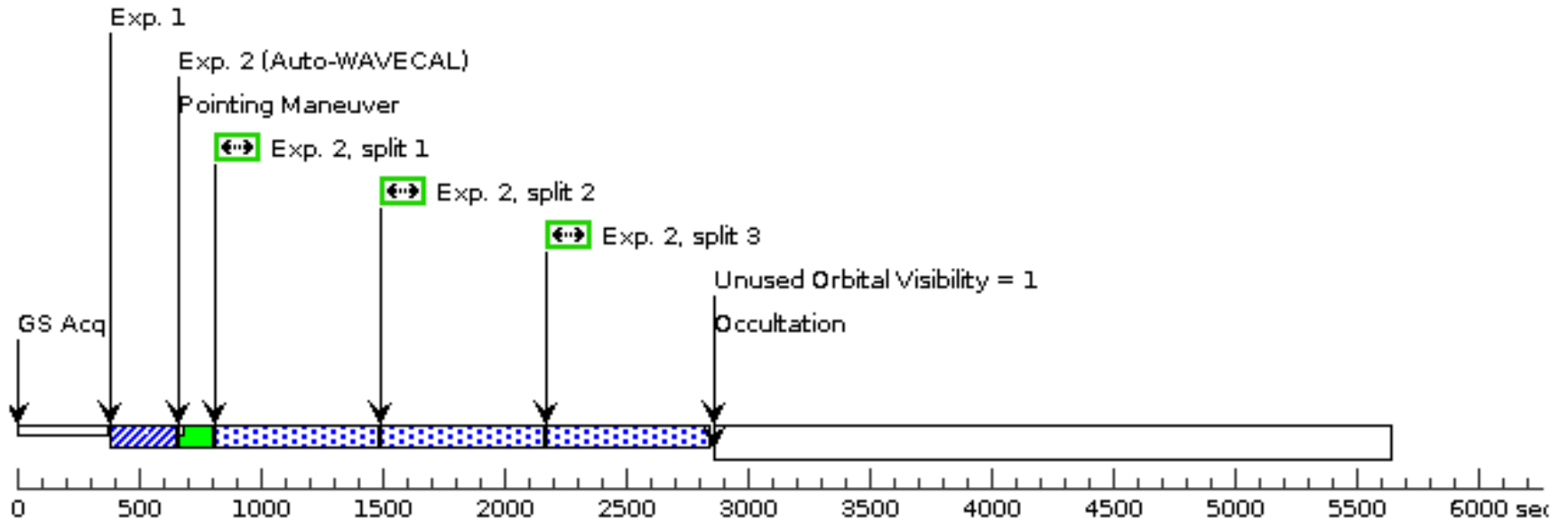


Proposal 17807 - ToO-4 (04) - Flash Thursday: Early-time UV Spectroscopy of Type II Supernovae with HST

Mon Oct 06 20:00:44 GMT 2025

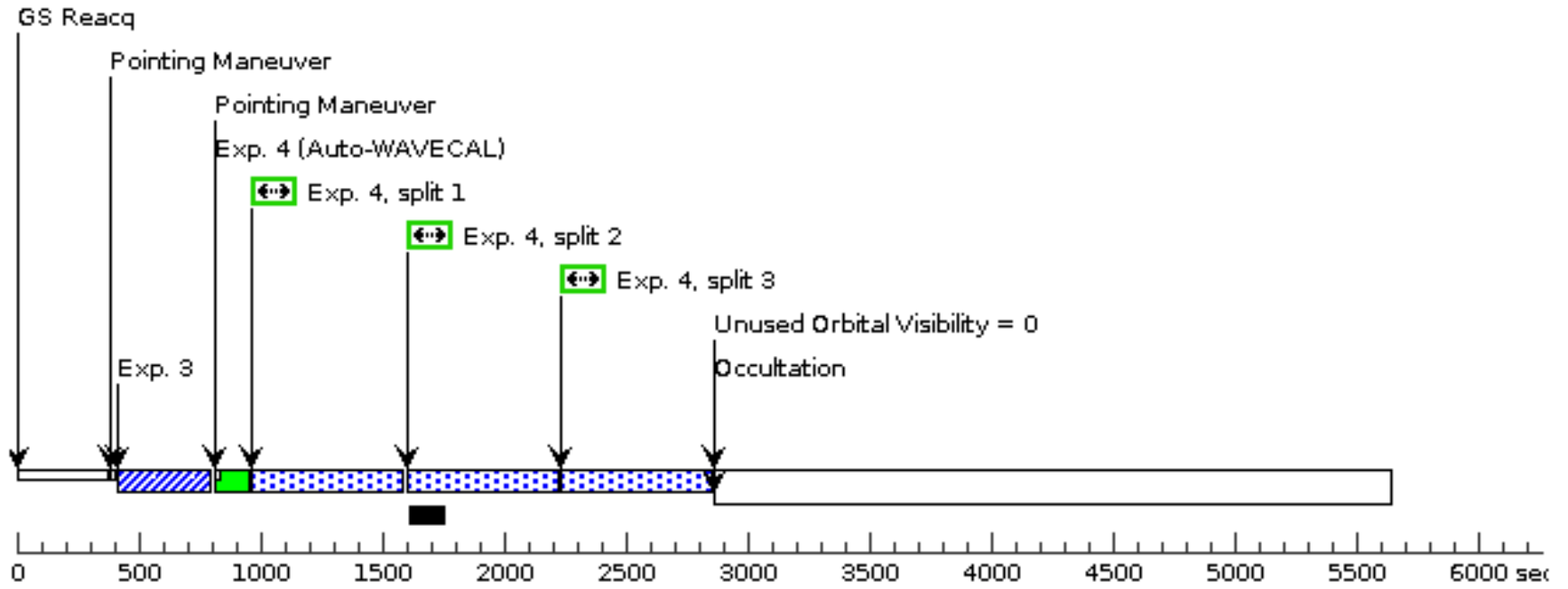
<b>Visit</b>	<b>Proposal 17807, ToO-4 (04), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ON HOLD ; TOO FLEX DAY <i>On Hold Comments: Activate upon discovery of first viable target</i>									
	(ToO-4 (04)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS (ToO-4 (04)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS (ToO-4 (04)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(12)	2025WHV	RA: 23 20 30.5300 (350.1272083d) Dec: +12 14 30.23 (12.24173d) Equinox: J2000		V=18	Reference Frame: ICRS				
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA]										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1		(12) 2025WHV	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs)	
									[==>]	[1]
	2		(12) 2025WHV	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3			1910 Secs (1910 Secs)	
									[==>(Split 1)]	
									[==>(Split 2)]	[1]
									[==>(Split 3)]	
	3		(12) 2025WHV	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs)	
								[==>]	[2]	
4		(12) 2025WHV	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3			1758 Secs (1758 Secs)		
								[==>(Split 1)]		
								[==>(Split 2)]	[2]	
								[==>(Split 3)]		
5		(12) 2025WHV	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=2			1050 Secs (1050 Secs)		
								[==>(Split 1)]		
								[==>(Split 2)]	[3]	
6		(12) 2025WHV	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=2			1049 Secs (1049 Secs)		
								[==>(Split 1)]		
								[==>(Split 2)]	[3]	
7		CCDFLAT	STIS/CCD, ACCUM, 52X0.1	G750L 7751 A				25 Secs X 2 (50 Secs)		
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								[==>(Copy 2)]	[3]	

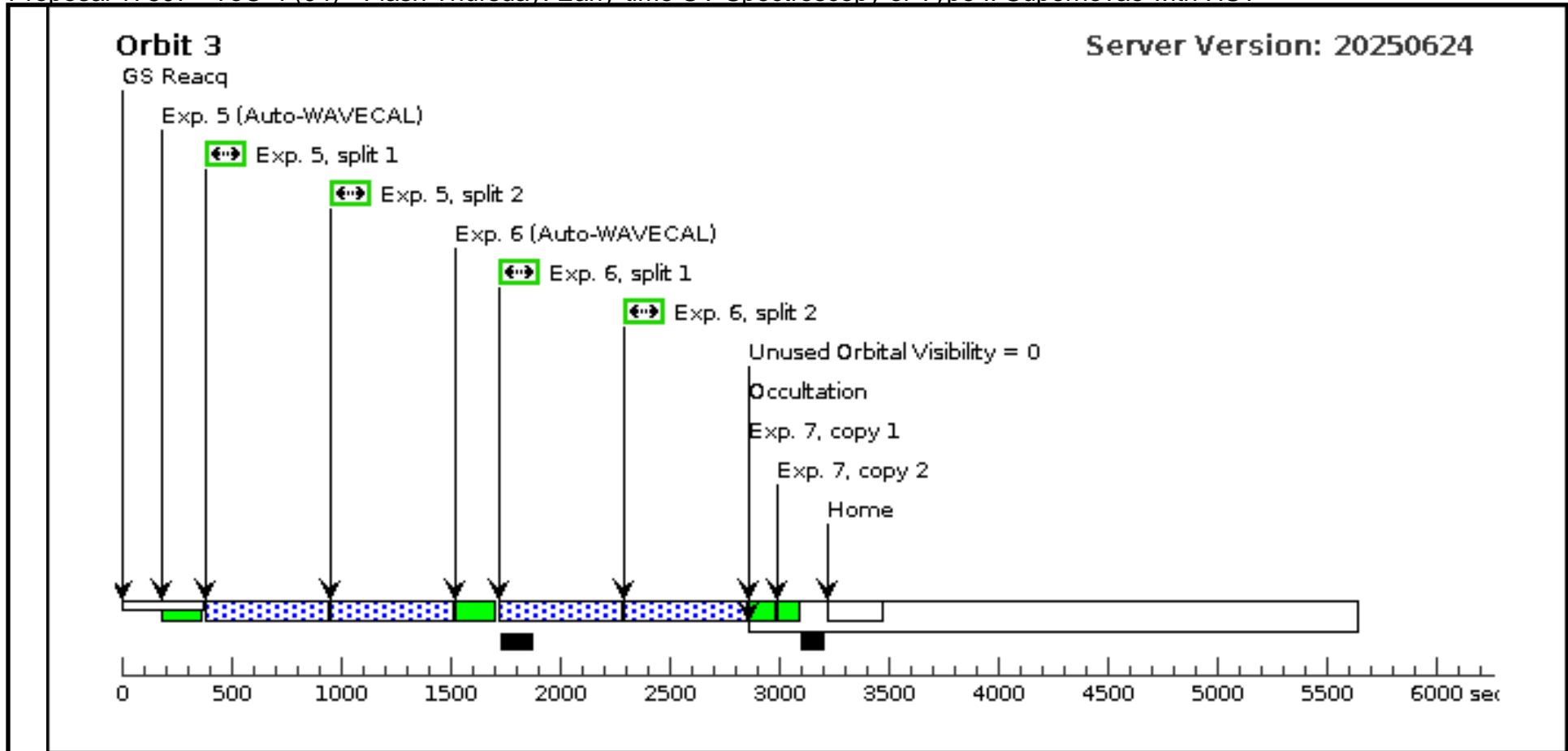
Orbit 1



Orbit Structure

**Orbit 2**





Proposal 17807 - ToO-5 (05) - Flash Thursday: Early-time UV Spectroscopy of Type II Supernovae with HST

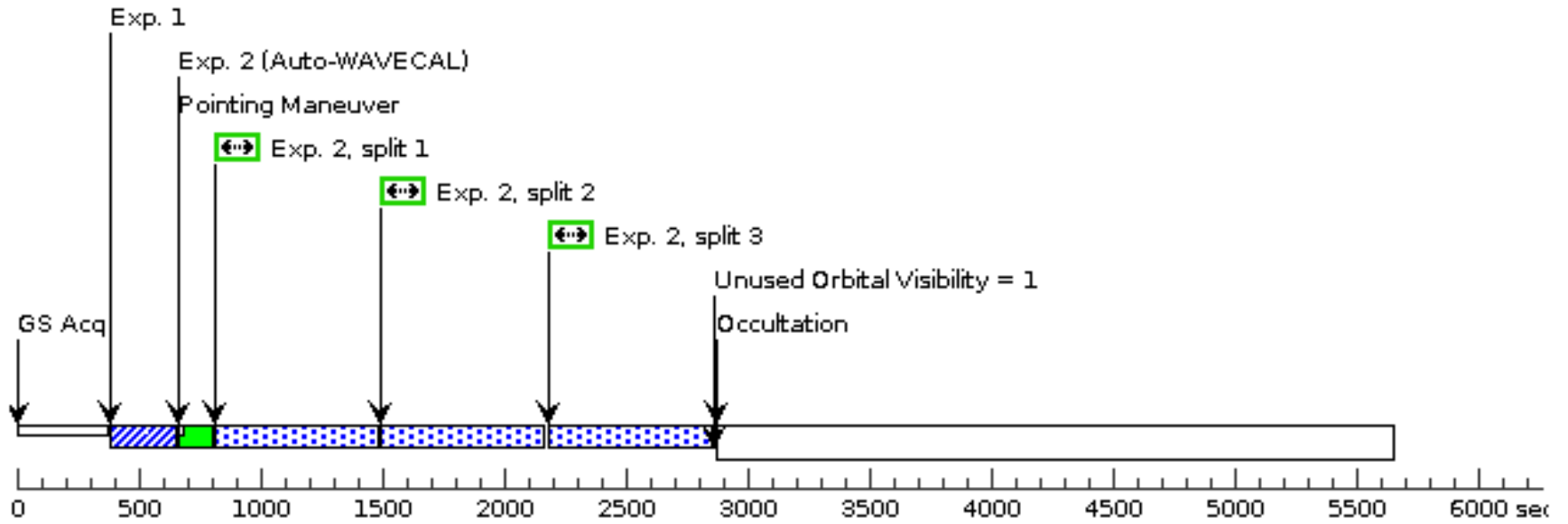
Mon Oct 06 20:00:44 GMT 2025

<b>Visit</b>	<b>Proposal 17807, ToO-5 (05), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ON HOLD ; TOO FLEX DAY <i>On Hold Comments: Activate upon discovery of first viable target</i>																
	<b>Diagnosics</b> (ToO-5 (05)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS (ToO-5 (05)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS (ToO-5 (05)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS (ToO-5 (05)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS (ToO-5 (05)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS (ToO-5 (05)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS (ToO-5 (05)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS (ToO-5 (05)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS (ToO-5 (05)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS																
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(13)</td> <td>ZTF25ABVBCZT</td> <td>RA: 03 32 7.9800 (53.0332500d) Dec: +41 35 45.57 (41.59599d) Equinox: J2000</td> <td></td> <td>V=18</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(13)	ZTF25ABVBCZT	RA: 03 32 7.9800 (53.0332500d) Dec: +41 35 45.57 (41.59599d) Equinox: J2000		V=18	Reference Frame: ICRS				
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(13)	ZTF25ABVBCZT	RA: 03 32 7.9800 (53.0332500d) Dec: +41 35 45.57 (41.59599d) Equinox: J2000		V=18	Reference Frame: ICRS												
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA]																	

Proposal 17807 - ToO-5 (05) - Flash Thursday: Early-time UV Spectroscopy of Type II Supernovae with HST

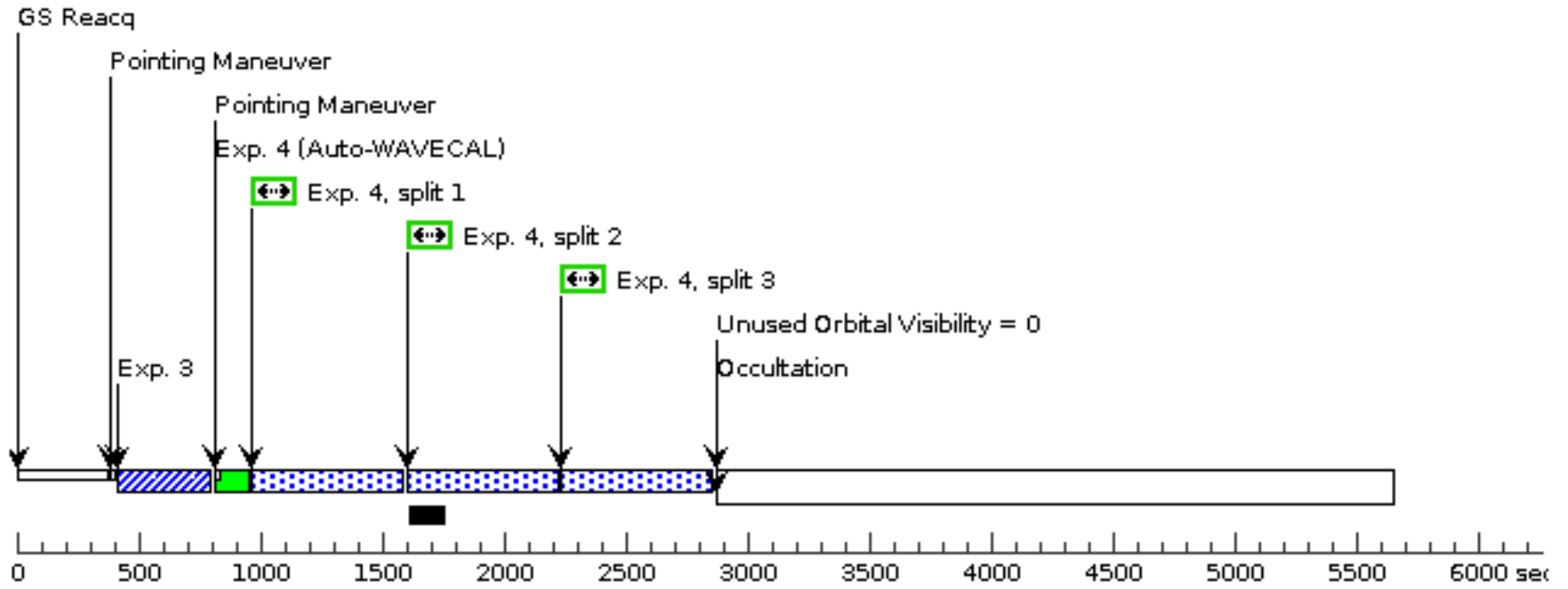
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(13) ZTF25ABVBC ZT	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs) [==>]	[1]
	2		(13) ZTF25ABVBC ZT	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3			1914 Secs (1914 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]
	3		(13) ZTF25ABVBC ZT	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs) [==>]	[2]
	4		(13) ZTF25ABVBC ZT	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3			1760 Secs (1760 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[2]
	5		(13) ZTF25ABVBC ZT	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs) [==>]	[3]
	6		(13) ZTF25ABVBC ZT	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3			1760 Secs (1760 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[3]
	7		(13) ZTF25ABVBC ZT	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs) [==>]	[4]
	8		(13) ZTF25ABVBC ZT	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3			1760 Secs (1760 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[4]
	9		(13) ZTF25ABVBC ZT	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=2			1062 Secs (1062 Secs) [==>(Split 1)] [==>(Split 2)]	[5]
	10		(13) ZTF25ABVBC ZT	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=2			1040 Secs (1040 Secs) [==>(Split 1)] [==>(Split 2)]	[5]
11		CCDFLAT	STIS/CCD, ACCUM, 52X0.1	G750L 7751 A				25 Secs X 2 (50 Secs) [==>(Copy 1)] [==>(Copy 2)]	[5]	

Orbit 1

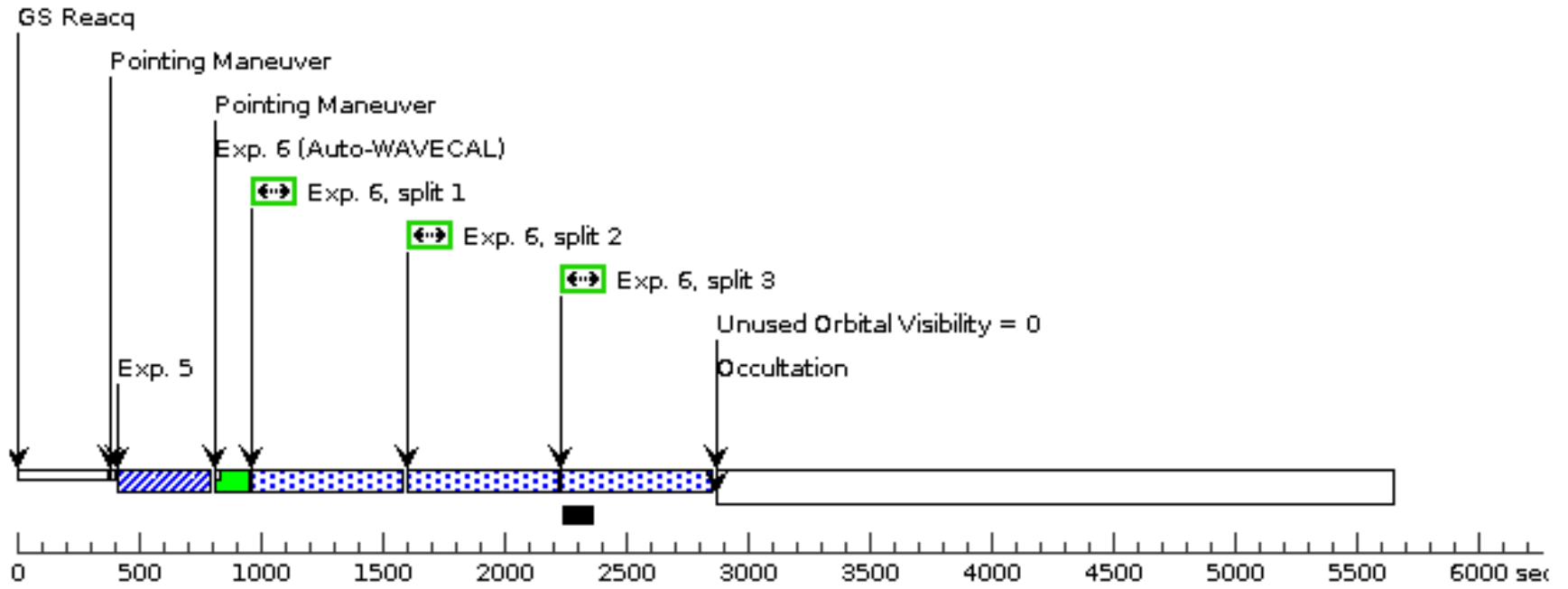


Orbit Structure

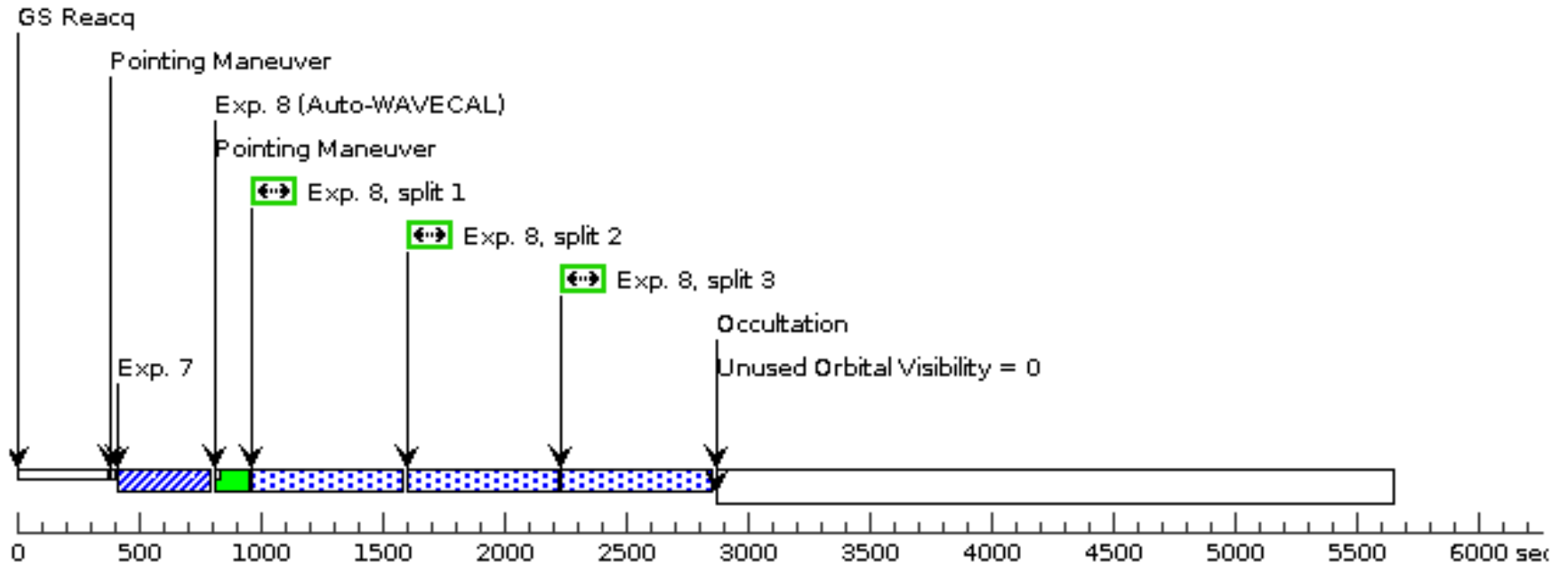
### Orbit 2

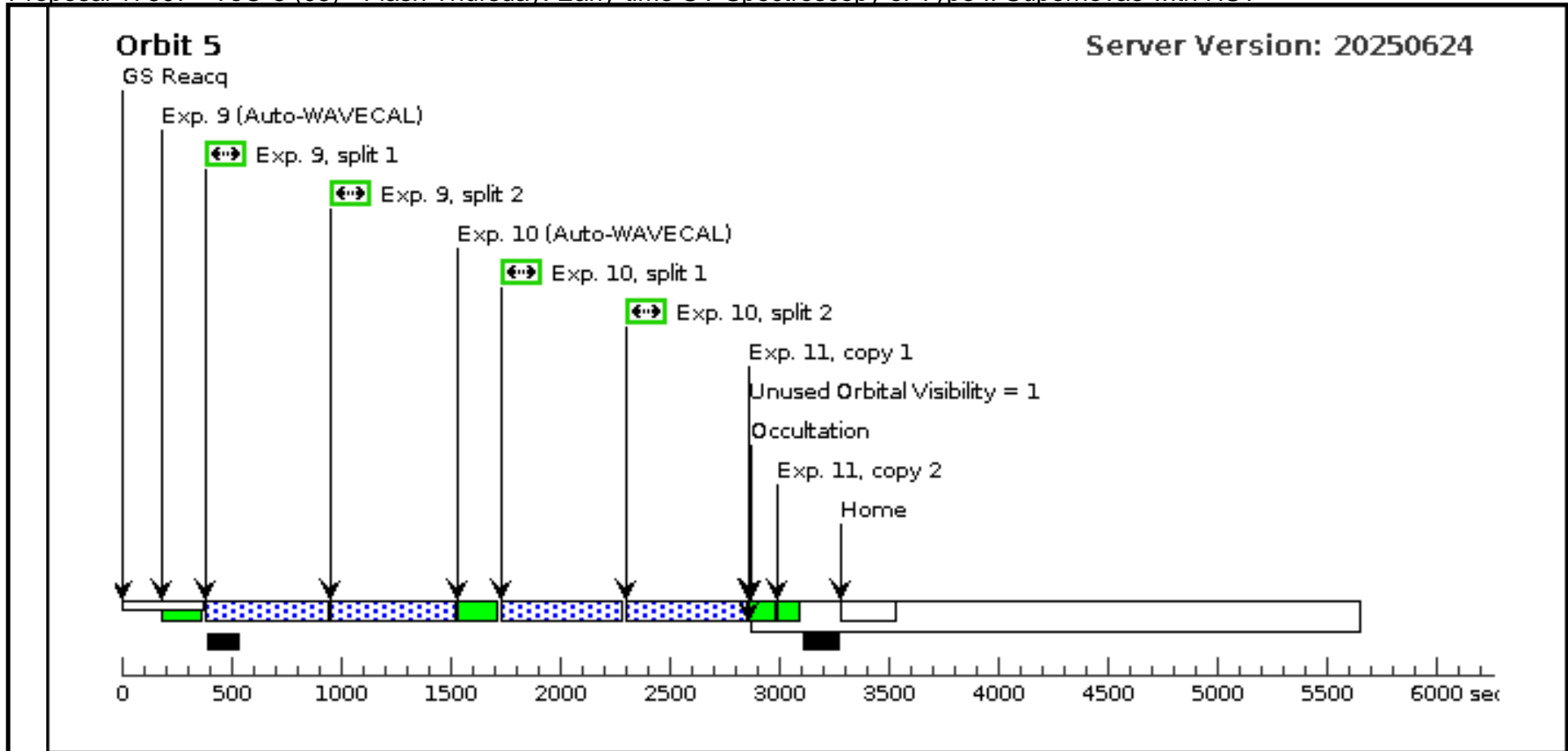


### Orbit 3



### Orbit 4



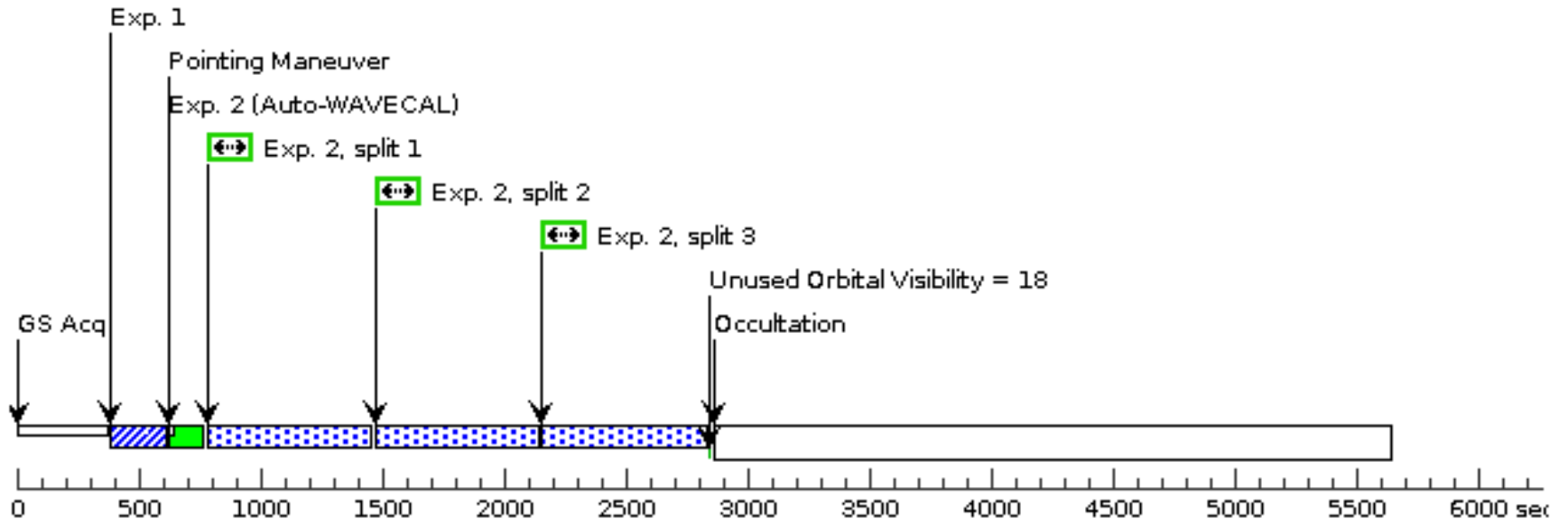


Proposal 17807 - ToO-6 (06) - Flash Thursday: Early-time UV Spectroscopy of Type II Supernovae with HST

Mon Oct 06 20:00:44 GMT 2025

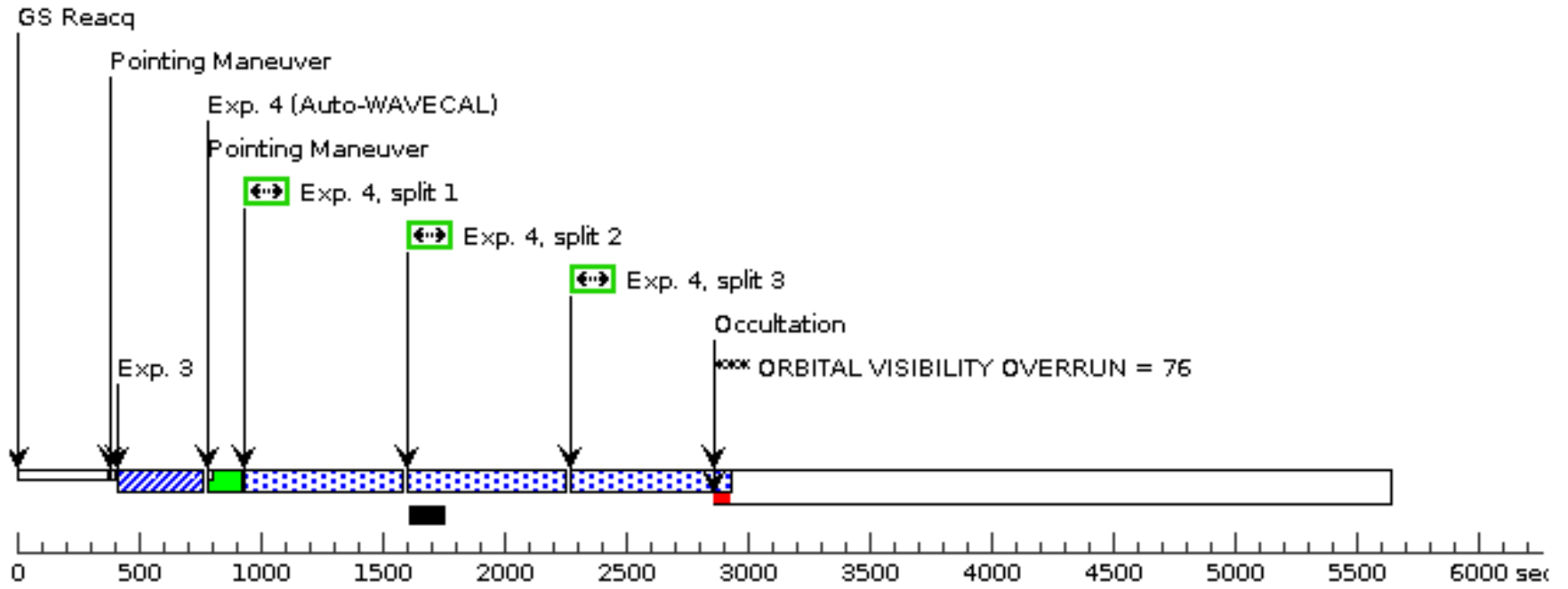
<b>Visit</b>	<b>Proposal 17807, ToO-6 (06), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ON HOLD ; TOO FLEX DAY <i>On Hold Comments: Activate upon discovery of first viable target</i>									
	<b>Diagnostics</b>	(ToO-6 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN								
(ToO-6 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
(ToO-6 (06)) Warning (Orbit Planner): STIS CCDFLAT EXPOSURE EXCEEDS MAXIMUM EXPOSURE TIME										
(ToO-6 (06)) Warning (Orbit Planner): STIS CCDFLAT EXPOSURE EXCEEDS MAXIMUM EXPOSURE TIME										
(ToO-6 (06)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS										
(ToO-6 (06)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS										
(ToO-6 (06)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS										
(ToO-6 (06)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS										
(ToO-6 (06)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS										
<b>Generic Targets</b>	<b>#</b>	<b>Name</b>	<b>Criteria</b>	<b>Description</b>						
	(1)	SUPERNOVA1	ToO	SUPERNOVA						
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1		(1) SUPERNOVA1	STIS/CCD, ACQ, F28X50LP	MIRROR				2 Secs (2 Secs)	
									[==>]	[1]
	2		(1) SUPERNOVA1	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3			1925 Secs (1925 Secs)	
									[==>(Split 1)]	
									[==>(Split 2)]	[1]
									[==>(Split 3)]	
	3		(1) SUPERNOVA1	STIS/CCD, ACQ, F28X50LP	MIRROR				2 Secs (2 Secs)	
								[==>]	[2]	
4		(1) SUPERNOVA1	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3			1865 Secs (1865 Secs)		
								[==>(Split 1)]		
								[==>(Split 2)]	[2]	
								[==>(Split 3)]		
5		(1) SUPERNOVA1	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=2			1065 Secs (1065 Secs)		
								[==>(Split 1)]		
								[==>(Split 2)]	[3]	
6		(1) SUPERNOVA1	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=2			1060 Secs (1060 Secs)		
								[==>(Split 1)]		
								[==>(Split 2)]	[3]	
7		CCDFLAT	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A				25 Secs X 2 (50 Secs)		
								[==>(Copy 1)]		
								[==>(Copy 2)]	[3]	

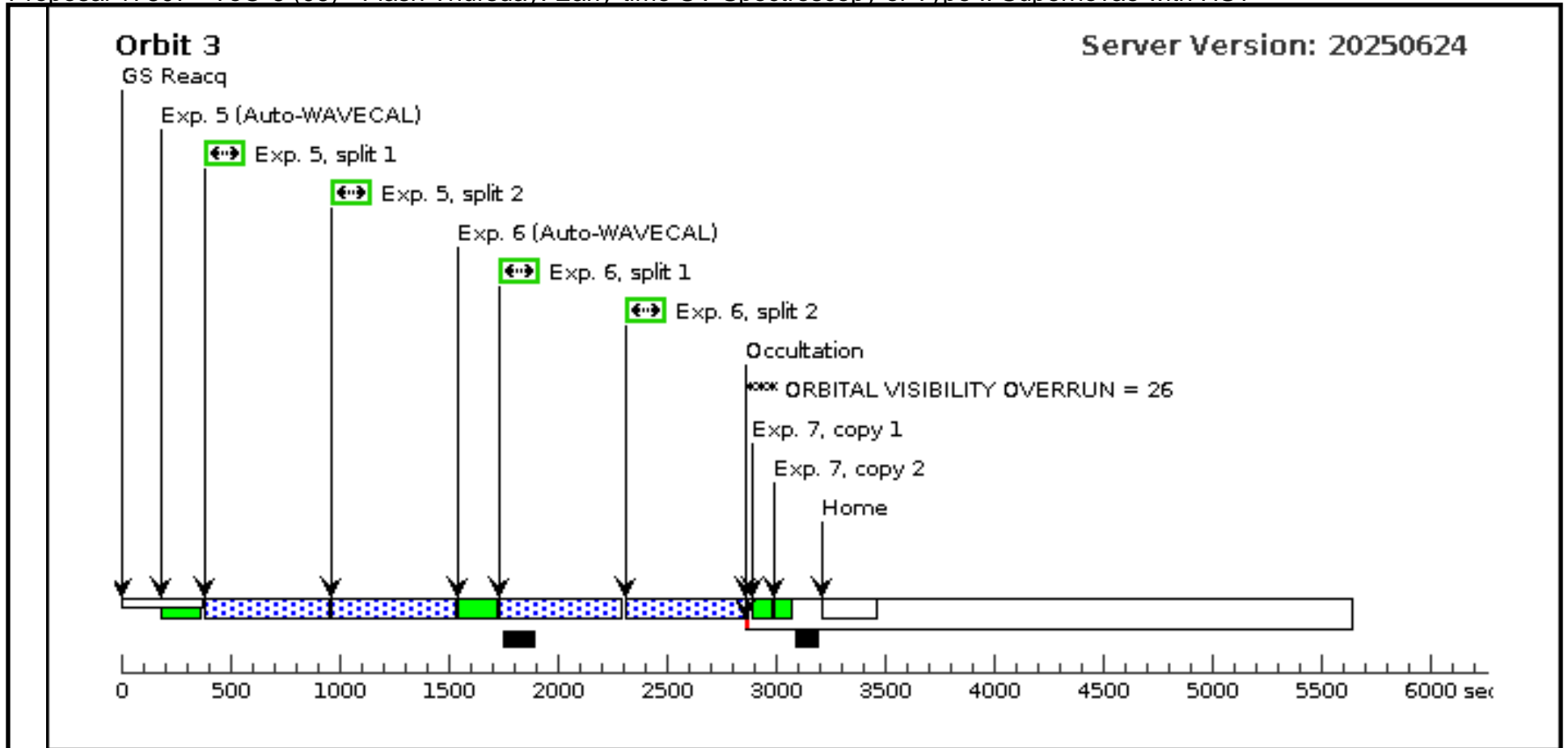
Orbit 1



Orbit Structure

### Orbit 2



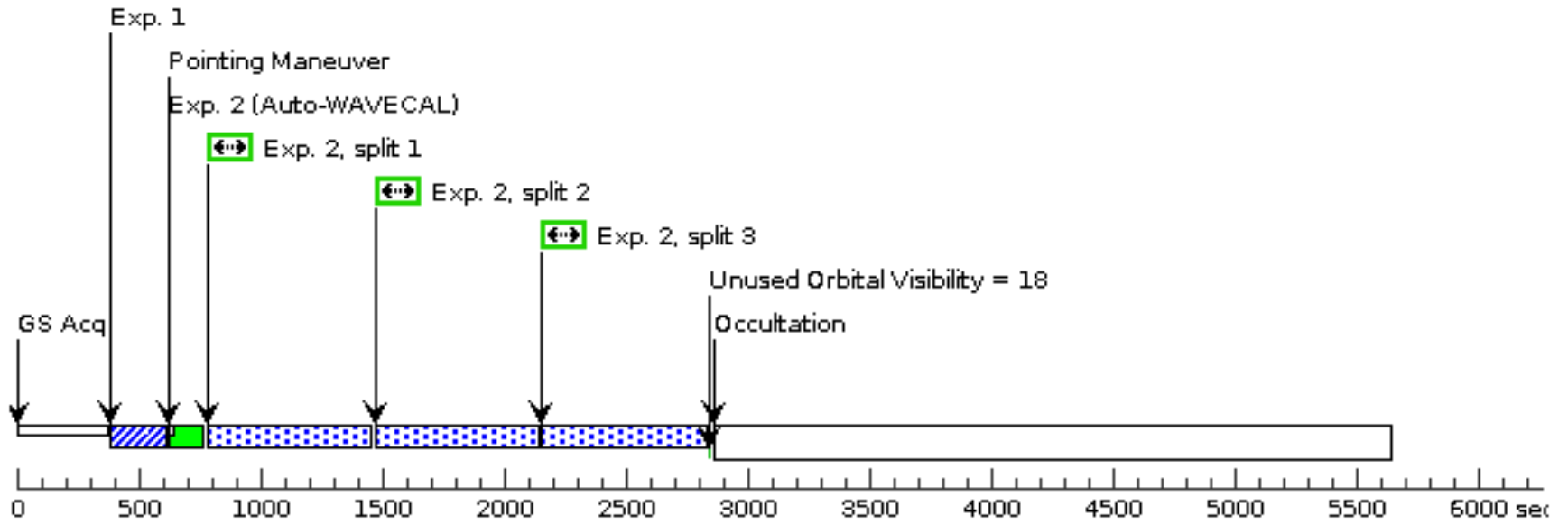


Proposal 17807 - ToO-7 (07) - Flash Thursday: Early-time UV Spectroscopy of Type II Supernovae with HST

Mon Oct 06 20:00:44 GMT 2025

<b>Visit</b>	<b>Proposal 17807, ToO-7 (07), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ON HOLD ; TOO FLEX DAY <i>On Hold Comments: Activate upon discovery of first viable target</i>									
	<b>Diagnostics</b>	(ToO-7 (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN								
(ToO-7 (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
(ToO-7 (07)) Warning (Orbit Planner): STIS CCDFLAT EXPOSURE EXCEEDS MAXIMUM EXPOSURE TIME										
(ToO-7 (07)) Warning (Orbit Planner): STIS CCDFLAT EXPOSURE EXCEEDS MAXIMUM EXPOSURE TIME										
(ToO-7 (07)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS										
(ToO-7 (07)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS										
(ToO-7 (07)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS										
(ToO-7 (07)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS										
(ToO-7 (07)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS										
<b>Generic Targets</b>	<b>#</b>	<b>Name</b>	<b>Criteria</b>	<b>Description</b>						
	(1)	SUPERNOVA1	ToO	SUPERNOVA						
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1		(1) SUPERNOVA1	STIS/CCD, ACQ, F28X50LP	MIRROR				2 Secs (2 Secs) [==>]	[1]
	2		(1) SUPERNOVA1	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3			1925 Secs (1925 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]
	3		(1) SUPERNOVA1	STIS/CCD, ACQ, F28X50LP	MIRROR				2 Secs (2 Secs) [==>]	[2]
	4		(1) SUPERNOVA1	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3			1865 Secs (1865 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[2]
	5		(1) SUPERNOVA1	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=2			1065 Secs (1065 Secs) [==>(Split 1)] [==>(Split 2)]	[3]
	6		(1) SUPERNOVA1	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=2			1060 Secs (1060 Secs) [==>(Split 1)] [==>(Split 2)]	[3]
	7		CCDFLAT	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A				25 Secs X 2 (50 Secs) [==>(Copy 1)] [==>(Copy 2)]	[3]

Orbit 1



Orbit Structure

### Orbit 2

