



18440 - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Cycle: 34, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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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	(1) NGC0247	WFC3/UVIS	1	19-Aug-2026 11:05:47.0	yes
02	(2) NGC1291-1	WFC3/UVIS	1	19-Aug-2026 11:05:47.0	yes
03	(3) NGC1291-2	WFC3/UVIS	1	19-Aug-2026 11:05:48.0	yes
04	(4) NGC1313-1	WFC3/UVIS	1	19-Aug-2026 11:05:48.0	yes
05	(5) IC1954	WFC3/UVIS	1	19-Aug-2026 11:05:48.0	yes
06	(6) NGC1512-1	WFC3/UVIS	1	19-Aug-2026 11:05:49.0	yes
07	(7) NGC1512-2	WFC3/UVIS	1	19-Aug-2026 11:05:49.0	yes
08	(8) NGC1566	WFC3/UVIS	1	19-Aug-2026 11:05:49.0	yes

Proposal 18440 (STScI Edit Number: 1, Created: Wednesday, August 19, 2026, 10:05:59AM Eastern Standard Time) - Overview

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
09	(9) NGC1637	WFC3/UVIS	1	19-Aug-2026 11:05:49.0	yes
10	(10) NGC1808	WFC3/UVIS	1	19-Aug-2026 11:05:50.0	yes
11	(11) NGC2903-1	WFC3/UVIS	1	19-Aug-2026 11:05:50.0	yes
12	(12) NGC2903-2	WFC3/UVIS	1	19-Aug-2026 11:05:50.0	yes
13	(13) NGC2997-1	WFC3/UVIS	1	19-Aug-2026 11:05:51.0	yes
14	(14) NGC3031-1	WFC3/UVIS	1	19-Aug-2026 11:05:51.0	yes
15	(15) NGC3031-2	WFC3/UVIS	1	19-Aug-2026 11:05:51.0	yes
16	(16) NGC3031-3	WFC3/UVIS	1	19-Aug-2026 11:05:52.0	yes
17	(17) NGC3137	WFC3/UVIS	1	19-Aug-2026 11:05:52.0	yes
18	(18) NGC3351	WFC3/UVIS	1	19-Aug-2026 11:05:53.0	yes
19	(19) NGC3521-1	WFC3/UVIS	1	19-Aug-2026 11:05:53.0	yes
20	(20) NGC3521-2	WFC3/UVIS	1	19-Aug-2026 11:05:53.0	yes
21	(21) NGC3621	WFC3/UVIS	1	19-Aug-2026 11:05:53.0	yes
22	(22) NGC3627	WFC3/UVIS	1	19-Aug-2026 11:05:54.0	yes
23	(23) NGC4449-1	WFC3/UVIS	1	19-Aug-2026 11:05:54.0	yes
24	(25) NGC4490-1	WFC3/UVIS	1	19-Aug-2026 11:05:54.0	yes
25	(27) NGC4536-1	WFC3/UVIS	1	19-Aug-2026 11:05:55.0	yes
26	(41) NGC4536-2	WFC3/UVIS	1	19-Aug-2026 11:05:55.0	yes
27	(28) NGC4781	WFC3/UVIS	1	19-Aug-2026 11:05:55.0	yes
28	(29) NGC5248	WFC3/UVIS	1	19-Aug-2026 11:05:55.0	yes
29	(30) IC5273	WFC3/UVIS	1	19-Aug-2026 11:05:56.0	yes
30	(31) NGC7793-1	WFC3/UVIS	1	19-Aug-2026 11:05:56.0	yes
31	(32) NGC7793-2	WFC3/UVIS	1	19-Aug-2026 11:05:56.0	yes
32	(35) NGC0685	WFC3/UVIS	1	19-Aug-2026 11:05:57.0	yes
33	(36) NGC1365	WFC3/UVIS	1	19-Aug-2026 11:05:57.0	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>
34	(37) NGC2283	WFC3/UVIS	1	19-Aug-2026 11:05:57.0	yes
35	(38) NGC4496A	WFC3/UVIS	1	19-Aug-2026 11:05:58.0	yes
36	(39) NGC7331-1	WFC3/UVIS	1	19-Aug-2026 11:05:58.0	yes
37	(42) NGC2997-2	WFC3/UVIS	1	19-Aug-2026 11:05:58.0	yes
38	(43) NGC1313-2	WFC3/UVIS	1	19-Aug-2026 11:05:59.0	yes

38 Total Orbits Used

ABSTRACT

Through their lives and deaths, massive stars shape nearly every area of astrophysics: chemical enrichment, ionizing radiation, compact-object formation, and gravitational-wave sources. Recent binary population models coupled with neutrino-driven explosion calculations suggest that a large fraction of massive stars at solar metallicity---of order 20--40%---may end as direct collapse to a black hole without a successful supernova (a "failed supernova"), rather than as a normal core-collapse explosion. Observational campaigns to date have produced only a handful of candidate failed SNe and have largely relied on red/optical imaging, including the largest HST search to date in F814W. Yet the same class of models predicts that well over half of failed supernovae at solar metallicity should be hot, hydrogen-poor Wolf--Rayet progenitors, with spectral energy distributions peaked in the ultraviolet. Such progenitors are faint in the filters used by past surveys, so a large fraction of failed supernovae may have evaded detection. We propose WFC3/UVIS F336W monitoring of a sample of nearby galaxies that already have deep, multi-epoch ultraviolet imaging from HST, enabling a search for luminous blue stars that disappear between epochs. The combination of HST's angular resolution in crowded environments and its UV sensitivity is critical for this test and will yield new constraints on failed-supernova rates and their implications for black-hole formation and stellar feedback.

OBSERVING DESCRIPTION

This program will obtain new WFC3 F336W images for 40 fields overlapping nearby galaxies in order to search for failed supernova (i.e. the collapse of a massive star without a luminous explosion). We specifically chose a blue filter in order to increase our sensitivity to hot massive stars (e.g. Wolf-Rayet stars) that could have been missed by previous suveys.

Our fields were chosen such that they have (i) at least two epochs of prior HST F336W imaging and (ii) prior imaging in at least 3 filters spanning NUV to red-optical. This will allow for more detailed characterization of any candidate luminous massive star that is absent in our new observations.

Proposal 18440 (STScI Edit Number: 1, Created: Wednesday, August 19, 2026, 10:05:59AM Eastern Standard Time) - Overview

We do not specify orientations in order to facilitate scheduling in reduced gyro mode. We use the standard 4-point WFC3-UVIS-DITHER BOX pattern.

Proposal 18440 - NGC0247 (01) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

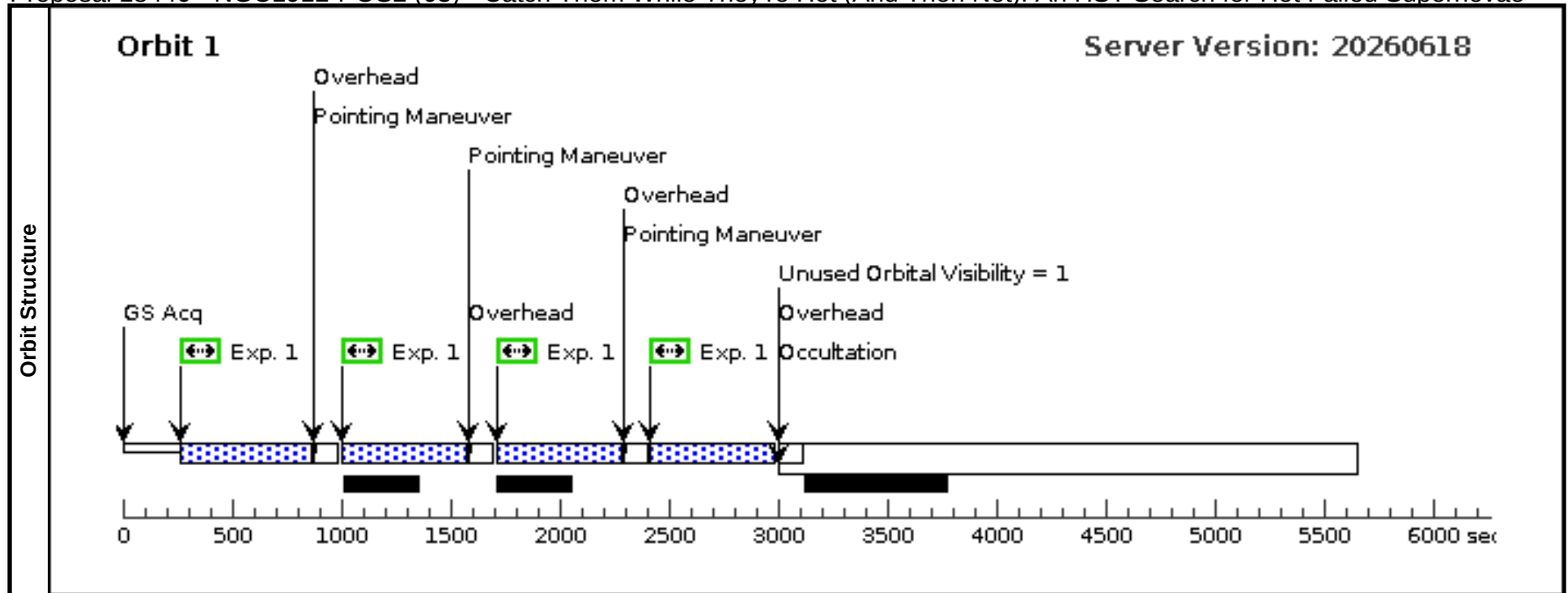
Visit	Proposal 18440, NGC0247 (01)										Wed Aug 19 15:05:59 GMT 2026			
	Diagnostic Status: No Diagnostics													
	Scientific Instruments: WFC3/UVIS													
	Special Requirements: (none)													
Patterns	#	Primary Pattern					Secondary Pattern				Exposures			
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=23.884 Purpose=DITHER Angle Between Sides=81.785 Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112 Center Pattern=false									(1)			
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous				
	(1)	NGC0247		RA: 00 47 10.3222 (11.7930092d) Dec: -20 46 9.47 (-20.76930d) Equinox: J2000				V=9.11		Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[SPIRAL]													
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1	F336W	(1) NGC0247	WFC3/UVIS, ACCUM, UVIS-FIX		F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC0247 (01) (1)	564 Secs (2256 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]		
Orbit Structure	Orbit 1												Server Version: 20260618	

Proposal 18440 - NGC1921-POS1 (02) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC1921-POS1 (02) Wed Aug 19 15:05:59 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=23.884 Purpose=DITHER Angle Between Sides=81.785 Number Of Points=4 Center Pattern=false Point Spacing=0.173 Line Spacing=0.112			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(2)	NGC1291-1	RA: 03 17 17.5137 (49.3229737d) Dec: -41 03 52.20 (-41.06450d) Equinox: J2000		V=9.3
	Comments: Category=GALAXY Description=[SPIRAL]				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	F336W	(2) NGC1291-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W
				Opt. Params.	Special Reqs.
				FLASH=15	
				Groups	Exp. Time (Total)/[Actual Dur.]
				Pattern 1, Exps 1-1 in NGC1921-POS1 (02) (1)	570 Secs (2280 Secs)
					[==>(Pattern 1)]
					[==>(Pattern 2)]
					[==>(Pattern 3)]
					[==>(Pattern 4)]
					[1]
Orbit Structure	Orbit 1 Server Version: 20260618				

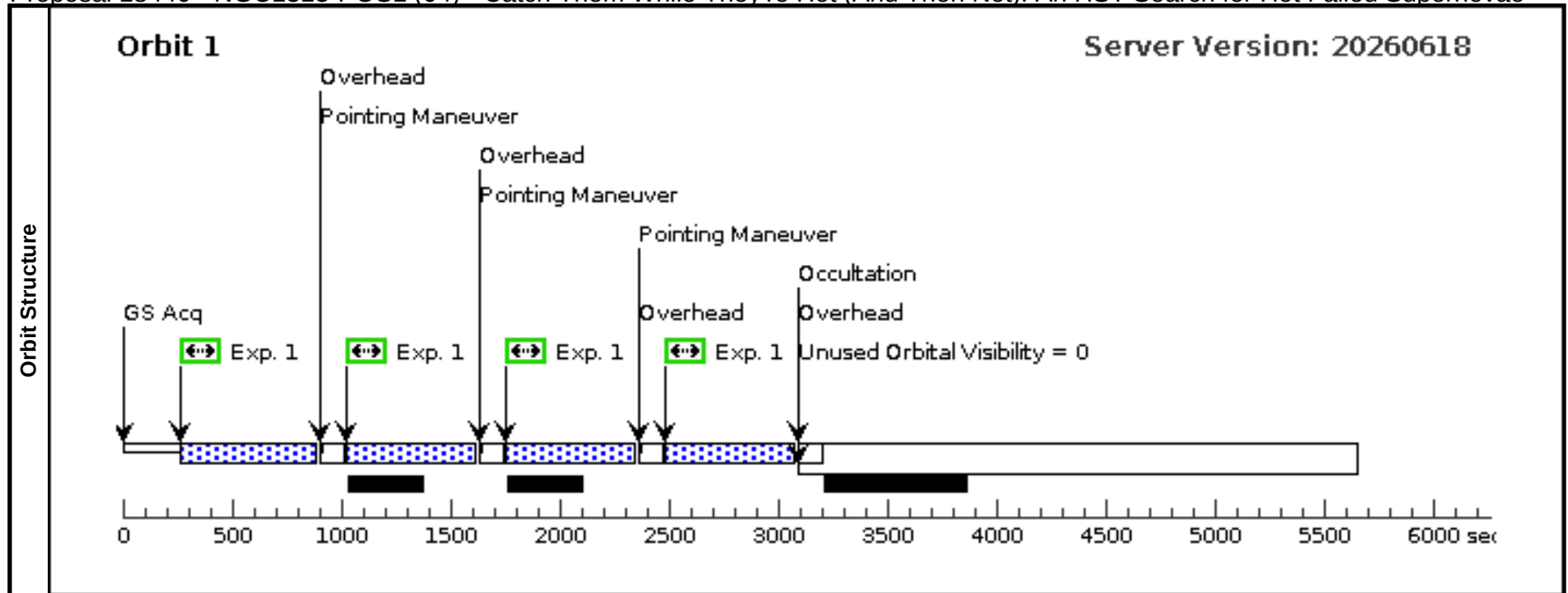
Proposal 18440 - NGC1912-POS2 (03) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC1912-POS2 (03)										Wed Aug 19 15:05:59 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112			Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false						(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(3)	NGC1291-2		RA: 03 16 58.5958 (49.2441492d) Dec: -41 04 46.47 (-41.07957d) Equinox: J2000				V=9.3		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[SPIRAL]											
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	F336W	(3) NGC1291-2	WFC3/UVIS, ACCUM, UVIS-CENTER		F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC1912-POS2 (03) (1)	570 Secs (2280 Secs)		
										[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]



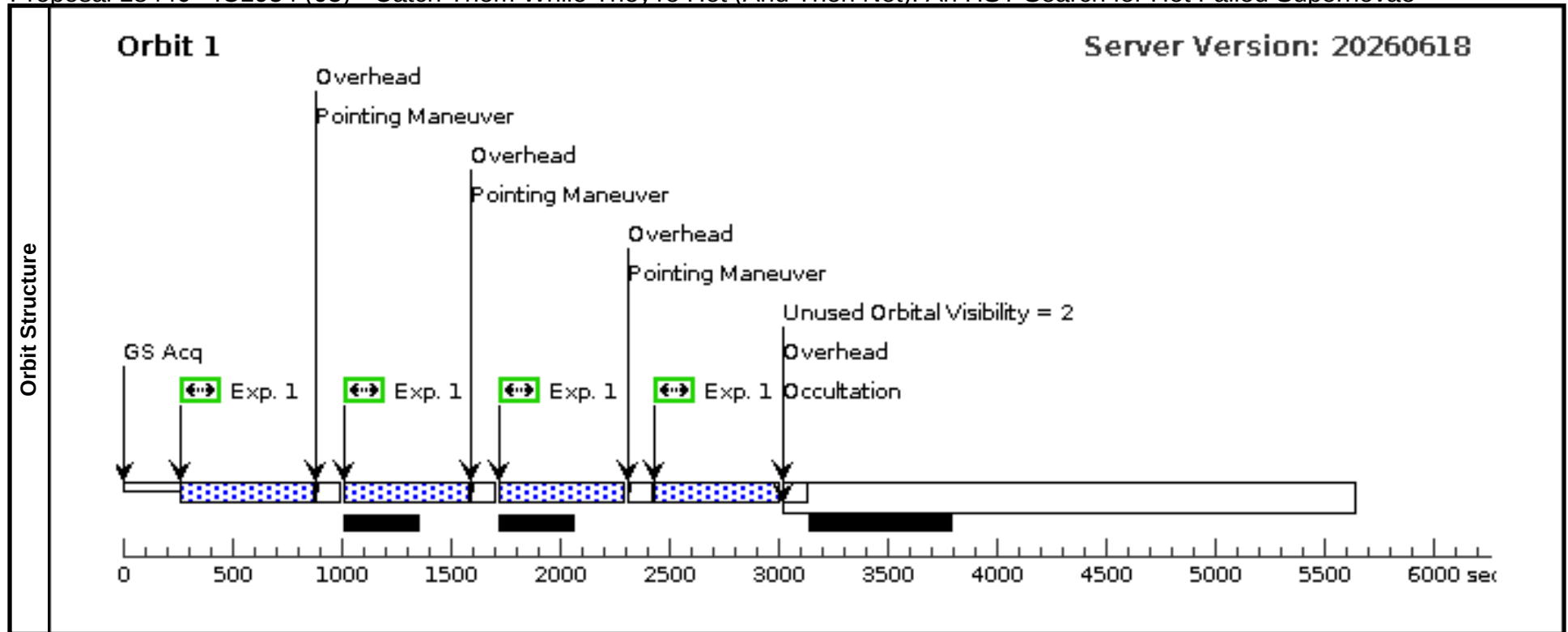
Proposal 18440 - NGC1313-POS1 (04) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC1313-POS1 (04)										Wed Aug 19 15:05:59 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112			Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false						(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(4)	NGC1313-1		RA: 03 18 29.9820 (49.6249250d) Dec: -66 28 40.49 (-66.47791d) Equinox: J2000				V=9.2		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[SPIRAL]											
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	F336W	(4) NGC1313-1	WFC3/UVIS, ACCUM, UVIS-CENTER		F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC1313-POS1 (04) (1)	593 Secs (2372 Secs)		
										[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]



Proposal 18440 - IC1954 (05) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, IC1954 (05)										Wed Aug 19 15:05:59 GMT 2026		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: (none)												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=23.884 Purpose=DITHER Angle Between Sides=81.785 Number Of Points=4 Center Pattern=false Point Spacing=0.173 Line Spacing=0.112										(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(5)	IC1954		RA: 03 31 31.8056 (52.8825233d) Dec: -51 54 14.15 (-51.90393d) Equinox: J2000				V=10.0		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[SPIRAL]												
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	F336W	(5) IC1954	WFC3/UVIS, ACCUM, UVIS-CENTER		F336W	FLASH=15		Pattern 1, Exps 1-1 in IC1954 (05) (1)	576 Secs (2304 Secs)			
										[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]		[1]	

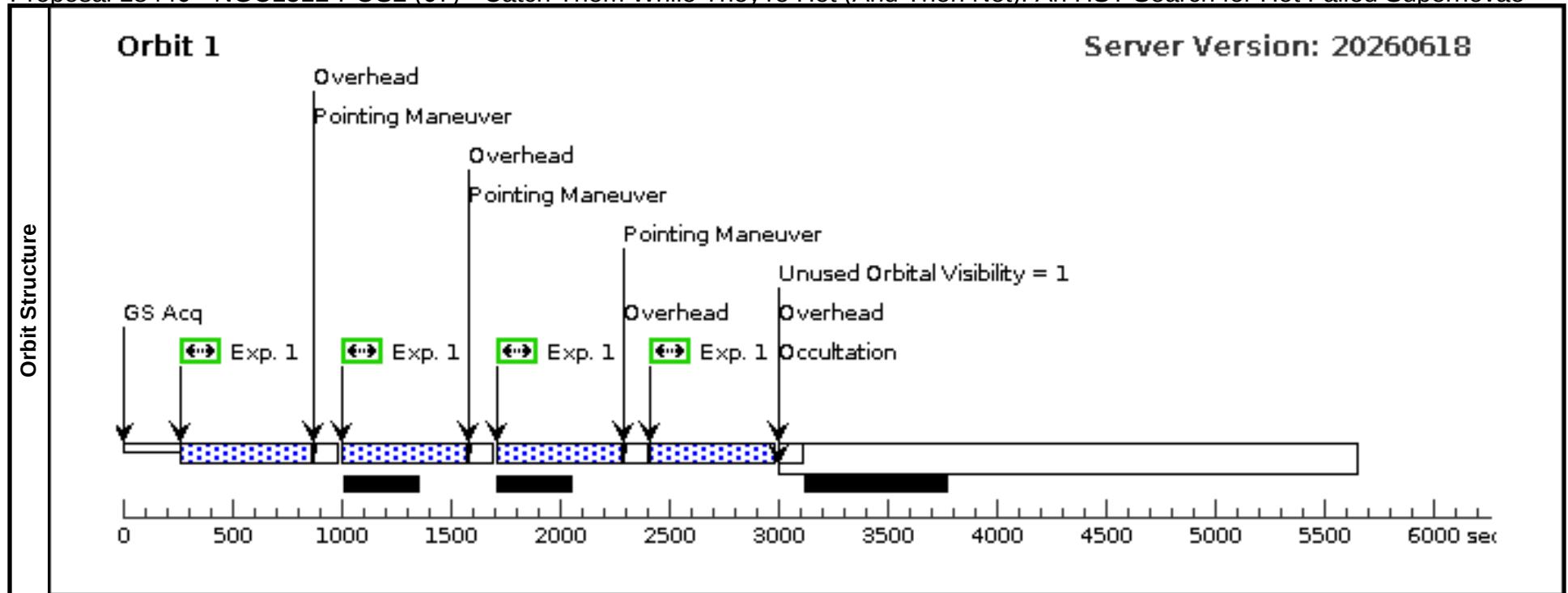


Proposal 18440 - NGC1512-POS1 (06) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC1512-POS1 (06) Wed Aug 19 15:05:59 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)				
Patterns	#	Primary Pattern	Secondary Pattern		Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=23.884 Purpose=DITHER Angle Between Sides=81.785 Number Of Points=4 Center Pattern=false Point Spacing=0.173 Line Spacing=0.112			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(6)	NGC1512-1	RA: 04 03 55.6072 (60.9816967d) Dec: -43 20 43.77 (-43.34549d) Equinox: J2000		V=11.1
	Comments: Category=GALAXY Description=[SPIRAL]				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	F336W	(6) NGC1512-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W
				Opt. Params.	Special Reqs.
				FLASH=15	
				Groups	Exp. Time (Total)/[Actual Dur.]
				Pattern 1, Exps 1-1 in NGC1512-POS1 (06) (1)	570 Secs (2280 Secs)
					[==>(Pattern 1)]
					[==>(Pattern 2)]
					[==>(Pattern 3)]
					[==>(Pattern 4)]
					[1]
Orbit Structure	Orbit 1 Server Version: 20260618				

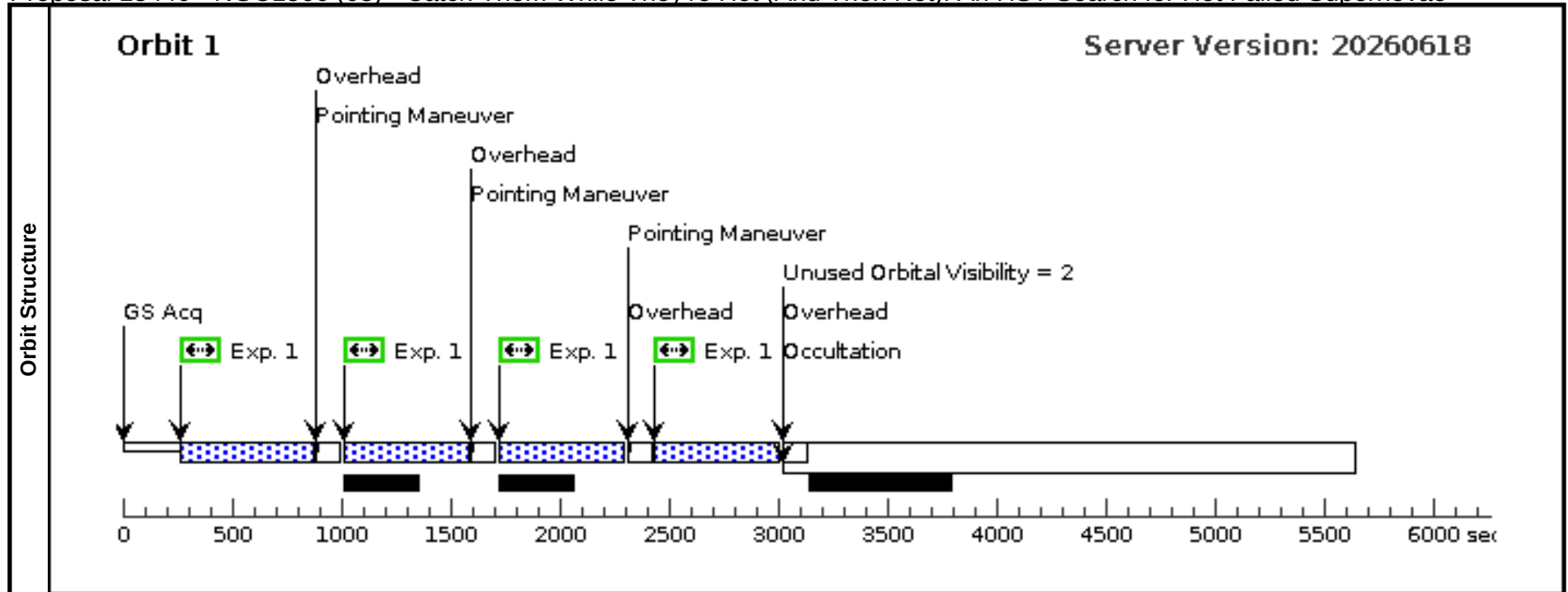
Proposal 18440 - NGC1512-POS2 (07) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC1512-POS2 (07)										Wed Aug 19 15:05:59 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112			Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false						(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(7)	NGC1512-2		RA: 04 03 34.0736 (60.8919733d) Dec: -43 23 42.26 (-43.39507d) Equinox: J2000				V=11.1		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[SPIRAL]											
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	F336W	(7) NGC1512-2	WFC3/UVIS, ACCUM, UVIS-CENTER		F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC1512-POS2 (07) (1)	570 Secs (2280 Secs)		
										[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]



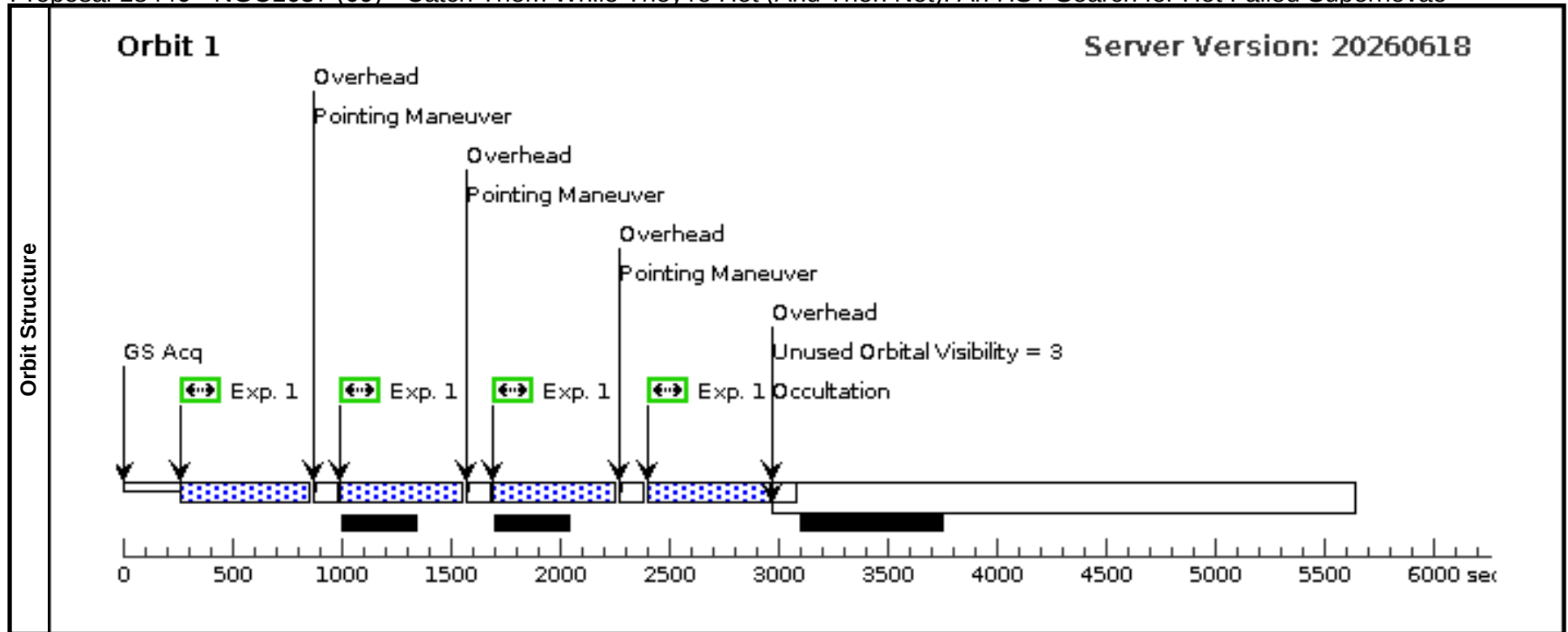
Proposal 18440 - NGC1566 (08) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC1566 (08)										Wed Aug 19 15:05:59 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112			Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false						(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(8)	NGC1566		RA: 04 20 0.5300 (65.0022083d) Dec: -54 56 13.80 (-54.93717d) Equinox: J2000				V=10.33		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[SPIRAL]											
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	F336W	(8) NGC1566	WFC3/UVIS, ACCUM, UVIS-CENTER		F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC1566 (08) (1)	576 Secs (2304 Secs)		
										[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]



Proposal 18440 - NGC1637 (09) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC1637 (09)										Wed Aug 19 15:05:59 GMT 2026		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: (none)												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=23.884 Purpose=DITHER Angle Between Sides=81.785 Number Of Points=4 Center Pattern=false Point Spacing=0.173 Line Spacing=0.112										(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(9)	NGC1637		RA: 04 41 28.1784 (70.3674100d) Dec: -02 51 28.66 (-2.85796d) Equinox: J2000				V=16		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[SPIRAL]												
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	F336W	(9) NGC1637	WFC3/UVIS, ACCUM, UVIS-CENTER		F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC1637 (09) (1)	564 Secs (2256 Secs)			
										[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]	



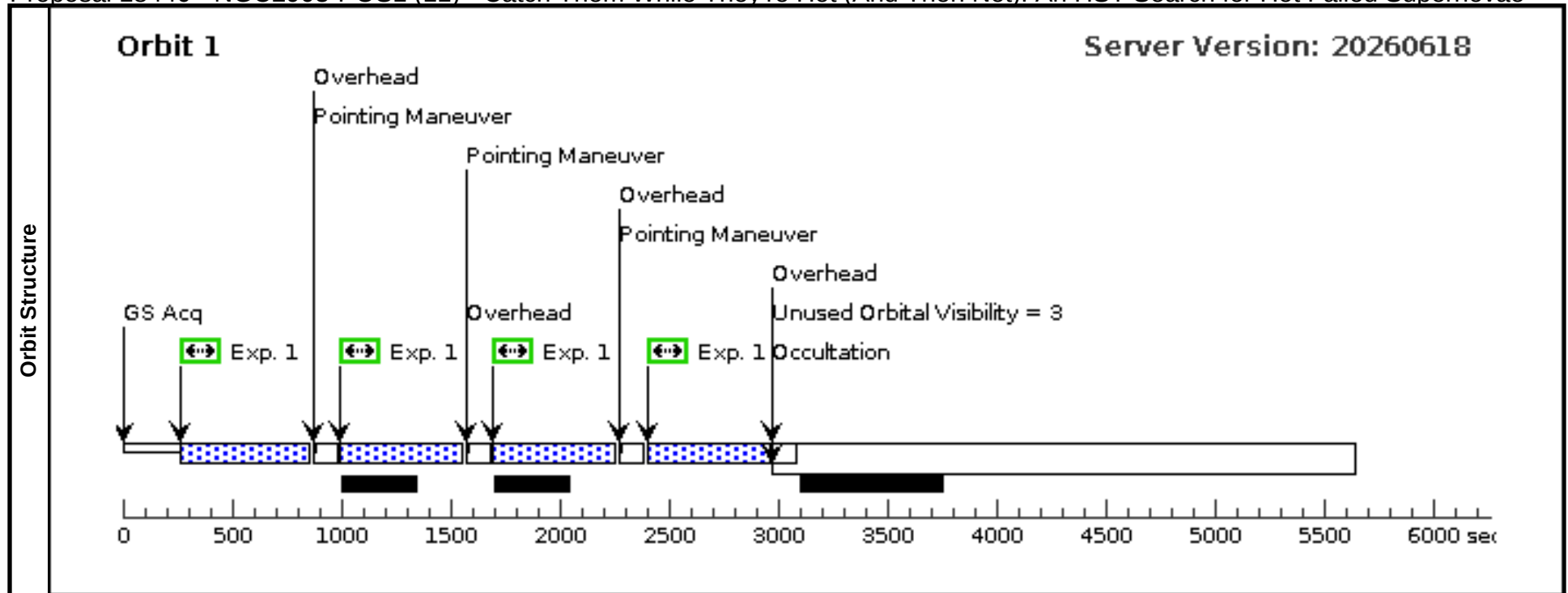
Proposal 18440 - NGC1808 (10) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Wed Aug 19 15:05:59 GMT 2026

Visit	Proposal 18440, NGC1808 (10)									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: WFC3/UVIS									
	Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=23.884 Purpose=DITHER Angle Between Sides=81.785 Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112 Center Pattern=false							(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(10)	NGC1808	RA: 05 07 42.3432 (76.9264300d) Dec: -37 30 46.98 (-37.51305d) Equinox: J2000				V=16		Reference Frame: ICRS	
Exposures	Comments: Category=GALAXY Description=[SPIRAL]									
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F336W	(10) NGC1808	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC1808 (10) (1)	568 Secs (2272 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
Orbit Structure	Orbit 1									
	Server Version: 20260618									

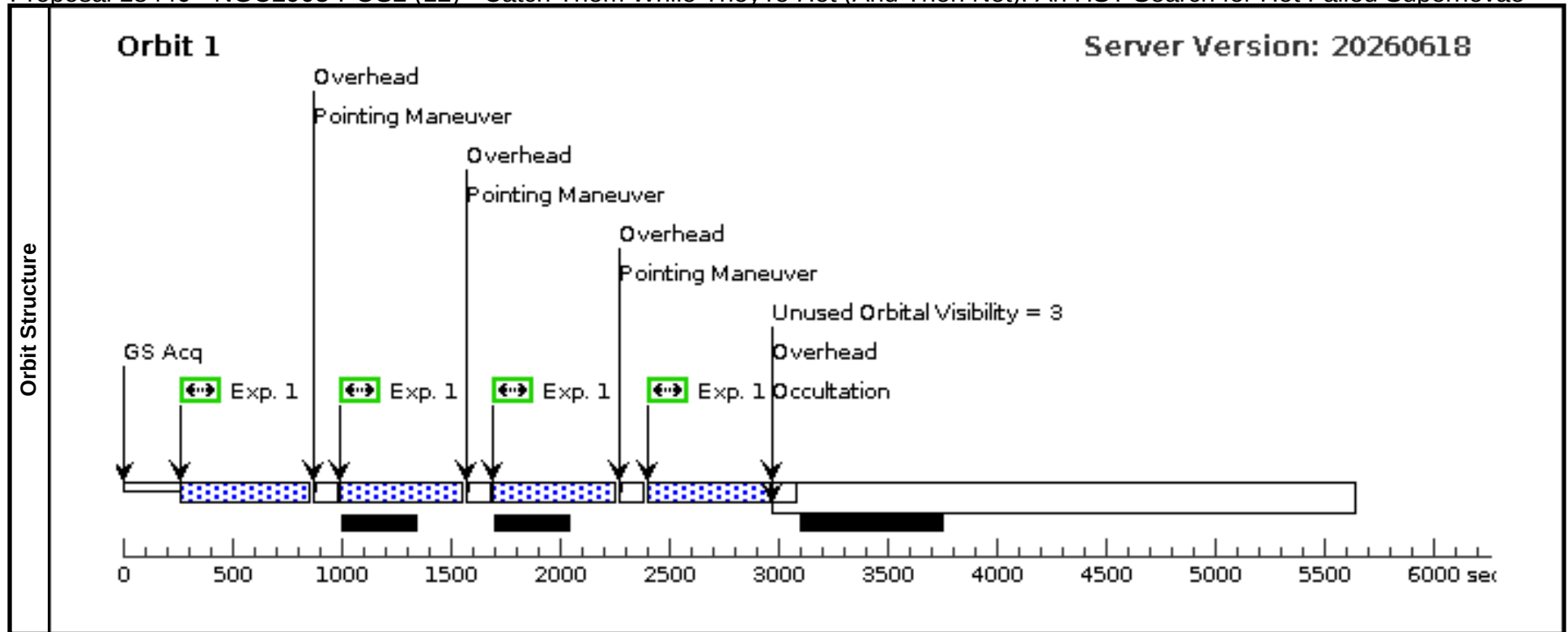
Proposal 18440 - NGC2903-POS1 (11) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC2903-POS1 (11)										Wed Aug 19 15:05:59 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112			Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false						(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(11)	NGC2903-1		RA: 09 32 10.9802 (143.0457508d) Dec: +21 30 19.61 (21.50545d) Equinox: J2000				V=9.07		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[SPIRAL]											
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	F336W	(11) NGC2903-1	WFC3/UVIS, ACCUM, UVIS-CENTER		F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC2903-POS1 (1) (1)	564 Secs (2256 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]



Proposal 18440 - NGC2903-POS2 (12) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC2903-POS2 (12)										Wed Aug 19 15:05:59 GMT 2026		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: (none)												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=23.884 Purpose=DITHER Angle Between Sides=81.785 Number Of Points=4 Center Pattern=false Point Spacing=0.173 Line Spacing=0.112										(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(12)	NGC2903-2		RA: 09 32 9.1387 (143.0380779d) Dec: +21 28 59.87 (21.48330d) Equinox: J2000				V=9.07		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[SPIRAL]												
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	F336W	(12) NGC2903-2	WFC3/UVIS, ACCUM, UVIS-CENTER		F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC2903-POS2 (12) (1)	564 Secs (2256 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]		



Proposal 18440 - NGC2997-POS1 (13) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC2997-POS1 (13)										Wed Aug 19 15:05:59 GMT 2026				
	Diagnostic Status: No Diagnostics														
	Scientific Instruments: WFC3/UVIS														
	Special Requirements: (none)														
Patterns	#	Primary Pattern					Secondary Pattern					Exposures			
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=23.884 Purpose=DITHER Angle Between Sides=81.785 Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112 Center Pattern=false										(1)			
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous					
	(13)	NGC2997-1		RA: 09 45 32.5279 (146.3855329d) Dec: -31 11 26.11 (-31.19059d) Equinox: J2000				V=16		Reference Frame: ICRS					
Comments: Category=GALAXY Description=[SPIRAL]															
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit			
	1	F336W	(13) NGC2997-1	WFC3/UVIS, ACCUM, UVIS-CENTER		F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC2997-POS1 (13) (1)	566 Secs (2264 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]			
Orbit Structure	Orbit 1													Server Version: 20260618	

Proposal 18440 - NGC3031-POS1 (14) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC3031-POS1 (14) Wed Aug 19 15:05:59 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)				
Patterns	#	Primary Pattern		Secondary Pattern	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112		Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(14)	NGC3031-1	RA: 09 55 24.9499 (148.8539579d) Dec: +69 01 13.40 (69.02039d) Equinox: J2000		V=16
Exposures	Comments: Category=GALAXY Description=[SPIRAL]				
	#	Label	Target	Config,Mode,Aperture	Spectral Els.
Orbit Structure	1	F336W	(14) NGC3031-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W
					FLASH=15
Orbit Structure					Exp. Time (Total)/[Actual Dur.]
					593 Secs (2372 Secs)
Orbit Structure					[=>(Pattern 1)]
					[=>(Pattern 2)]
Orbit Structure					[=>(Pattern 3)]
					[=>(Pattern 4)]
Orbit Structure					Orbit
					[1]
Orbit Structure	Orbit 1 Server Version: 20260618				

Proposal 18440 - NGC3031-POS2 (15) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC3031-POS2 (15) Wed Aug 19 15:05:59 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)				
Patterns	#	Primary Pattern		Secondary Pattern	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112		Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(15)	NGC3031-2	RA: 09 56 7.7071 (149.0321129d) Dec: +69 06 58.13 (69.11615d) Equinox: J2000		V=16
Exposures	Comments: Category=GALAXY Description=[SPIRAL]				
	#	Label	Target	Config,Mode,Aperture	Spectral Els.
Orbit Structure	1	F336W	(15) NGC3031-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W
					FLASH=15
Orbit Structure					Special Reqs.
					Groups
Orbit Structure					Exp. Time (Total)/[Actual Dur.]
					Orbit
Orbit Structure					593 Secs (2372 Secs)
					[1]
Orbit Structure					[=>(Pattern 1)]
					[=>(Pattern 2)]
Orbit Structure					[=>(Pattern 3)]
					[=>(Pattern 4)]
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Proposal 18440 - NGC3031-POS3 (16) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC3031-POS3 (16) Wed Aug 19 15:05:59 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=23.884 Purpose=DITHER Angle Between Sides=81.785 Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112 Center Pattern=false			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(16)	NGC3031-3	RA: 09 55 8.1055 (148.7837729d) Dec: +69 08 57.13 (69.14920d) Equinox: J2000		V=16
	Comments: Category=GALAXY Description=[SPIRAL]				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	F336W	(16) NGC3031-3	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W
				FLASH=15	
					Pattern 1, Exps 1-1 in NGC3031-POS3 (16) (1)
					Exp. Time (Total)/[Actual Dur.]
					593 Secs (2372 Secs)
					[==>(Pattern 1)]
					[==>(Pattern 2)]
					[==>(Pattern 3)]
					[==>(Pattern 4)]
					[1]
Orbit Structure	Orbit 1 Server Version: 20260618				

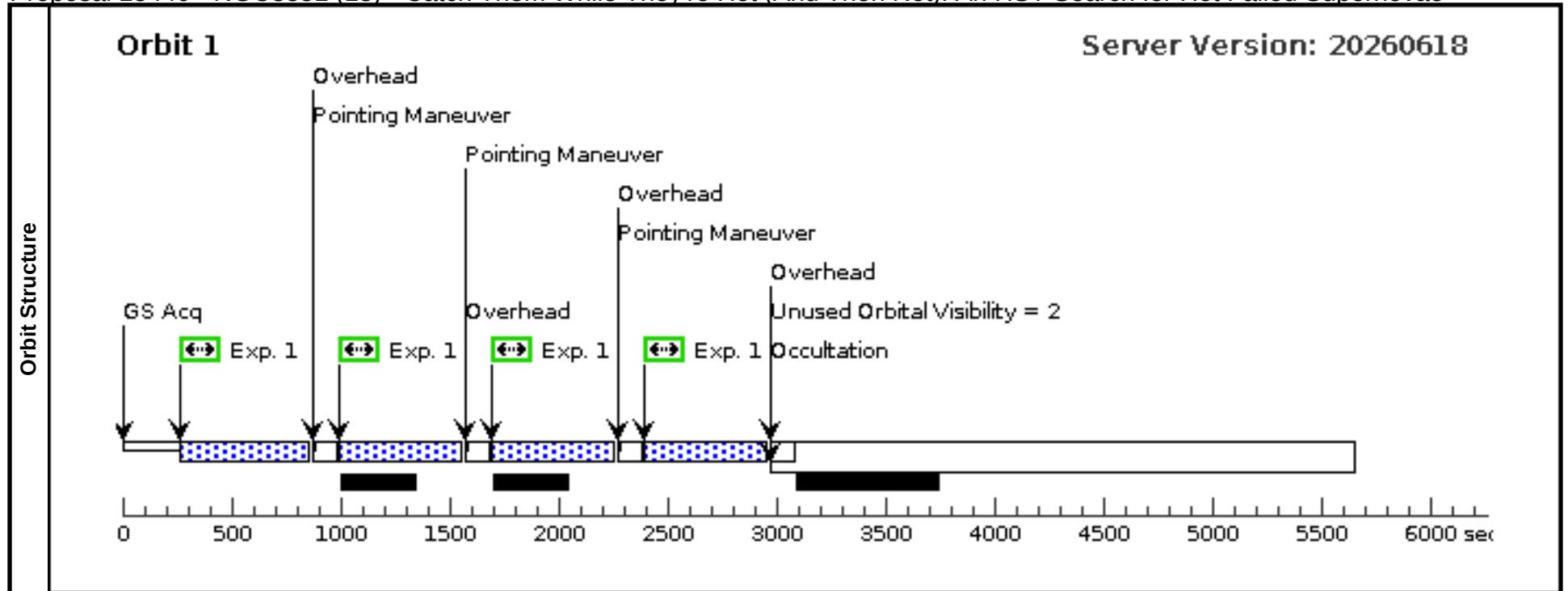
Proposal 18440 - NGC3137 (17) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Wed Aug 19 15:05:59 GMT 2026

Visit	Proposal 18440, NGC3137 (17)									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: WFC3/UVIS									
	Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=23.884 Purpose=DITHER Angle Between Sides=81.785 Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112 Center Pattern=false							(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(17)	NGC3137	RA: 10 09 7.4784 (152.2811600d) Dec: -29 03 51.48 (-29.06430d) Equinox: J2000				V=16		Reference Frame: ICRS	
Exposures	Comments: Category=GALAXY Description=[SPIRAL]									
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F336W	(17) NGC3137	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC3137 (17) (1)	565 Secs (2260 Secs)	
									[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]
Orbit Structure	Orbit 1									
	Server Version: 20260618									

Proposal 18440 - NGC3351 (18) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC3351 (18)										Wed Aug 19 15:05:59 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112			Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false						(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(18)	NGC3351		RA: 10 43 58.0001 (160.9916671d) Dec: +11 42 17.76 (11.70493d) Equinox: J2000				V=9.73		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[SPIRAL]											
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	F336W	(18) NGC3351	WFC3/UVIS, ACCUM, UVIS-CENTER		F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC3351 (18) (1)	563 Secs (2252 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	



Proposal 18440 - NGC3521-POS1 (19) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

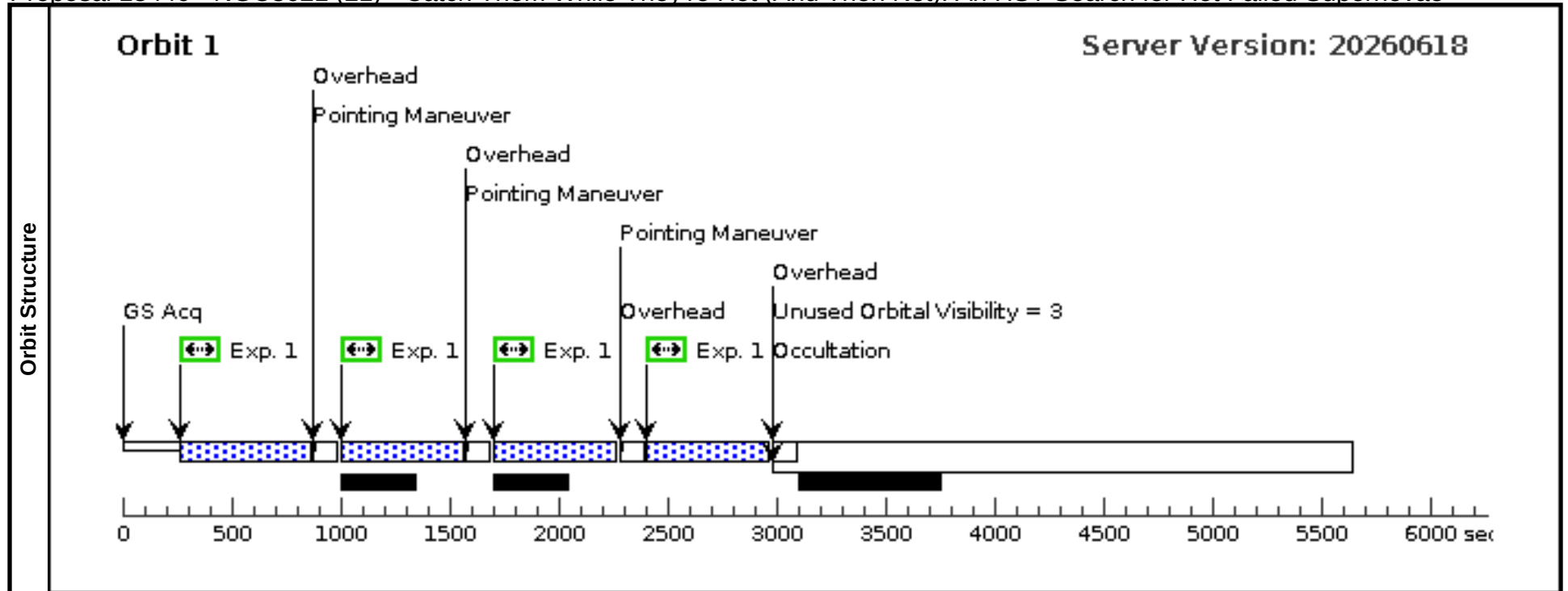
Visit	Proposal 18440, NGC3521-POS1 (19) Wed Aug 19 15:06:00 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=23.884 Purpose=DITHER Angle Between Sides=81.785 Number Of Points=4 Center Pattern=false Point Spacing=0.173 Line Spacing=0.112			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(19)	NGC3521-1	RA: 11 05 50.4019 (166.4600079d) Dec: -00 03 3.58 (-.05099d) Equinox: J2000		V=16
	Comments: Category=GALAXY Description=[SPIRAL]				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	F336W	(19) NGC3521-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W
				Opt. Params.	Special Reqs.
				FLASH=15	
				Groups	Exp. Time (Total)/[Actual Dur.]
				Pattern 1, Exps 1-1 in NGC3521-POS1 (19) (1)	564 Secs (2256 Secs)
					[==>(Pattern 1)]
					[==>(Pattern 2)]
					[==>(Pattern 3)]
					[==>(Pattern 4)]
					[1]
Orbit Structure	Orbit 1 Server Version: 20260618				

Proposal 18440 - NGC3521-POS2 (20) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC3521-POS2 (20) Wed Aug 19 15:06:00 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=23.884 Purpose=DITHER Angle Between Sides=81.785 Number Of Points=4 Center Pattern=false Point Spacing=0.173 Line Spacing=0.112			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(20)	NGC3521-2	RA: 11 05 46.0654 (166.4419392d) Dec: -00 00 43.02 (-.01195d) Equinox: J2000		V=16
	Comments: Category=GALAXY Description=[SPIRAL]				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	F336W	(20) NGC3521-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W
				Opt. Params.	Special Reqs.
				FLASH=15	
				Groups	Exp. Time (Total)/[Actual Dur.]
				Pattern 1, Exps 1-1 in NGC3521-POS2 (20) (1)	564 Secs (2256 Secs)
					[==>(Pattern 1)]
					[==>(Pattern 2)]
					[==>(Pattern 3)]
					[==>(Pattern 4)]
					[1]
Orbit Structure	Orbit 1 Server Version: 20260618				
	The diagram illustrates the orbit structure for Orbit 1, showing a timeline from 0 to 6000 seconds. Key events include: GS Acq: Ground Station Acquisition at approximately 100 seconds. Exp. 1: Four exposure events, each represented by a green box with a double-headed arrow, occurring at approximately 400, 1000, 1700, and 2400 seconds. Overhead: Multiple overhead events, represented by vertical lines, occurring at approximately 900, 1600, 2300, and 3000 seconds. Pointing Maneuver: Three pointing maneuvers, represented by vertical lines, occurring at approximately 1000, 1700, and 2400 seconds. Occultation: A period of occultation, represented by a black bar, occurring from approximately 3000 to 3800 seconds. Unused Orbital Visibility = 3: A period of unused orbital visibility, represented by a vertical line, occurring at approximately 3000 seconds. The observation period is indicated by a blue checkered bar from approximately 100 to 3000 seconds. The occultation period is indicated by a black bar from approximately 3000 to 3800 seconds.				

Proposal 18440 - NGC3621 (21) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC3621 (21)										Wed Aug 19 15:06:00 GMT 2026		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: (none)												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=23.884 Purpose=DITHER Angle Between Sides=81.785 Number Of Points=4 Center Pattern=false Point Spacing=0.173 Line Spacing=0.112										(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(21)	NGC3621		RA: 11 18 19.2972 (169.5804050d) Dec: -32 49 55.26 (-32.83202d) Equinox: J2000				V=9.56		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[SPIRAL]												
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	F336W	(21) NGC3621	WFC3/UVIS, ACCUM, UVIS-CENTER		F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC3621 (21) (1)	566 Secs (2264 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]	



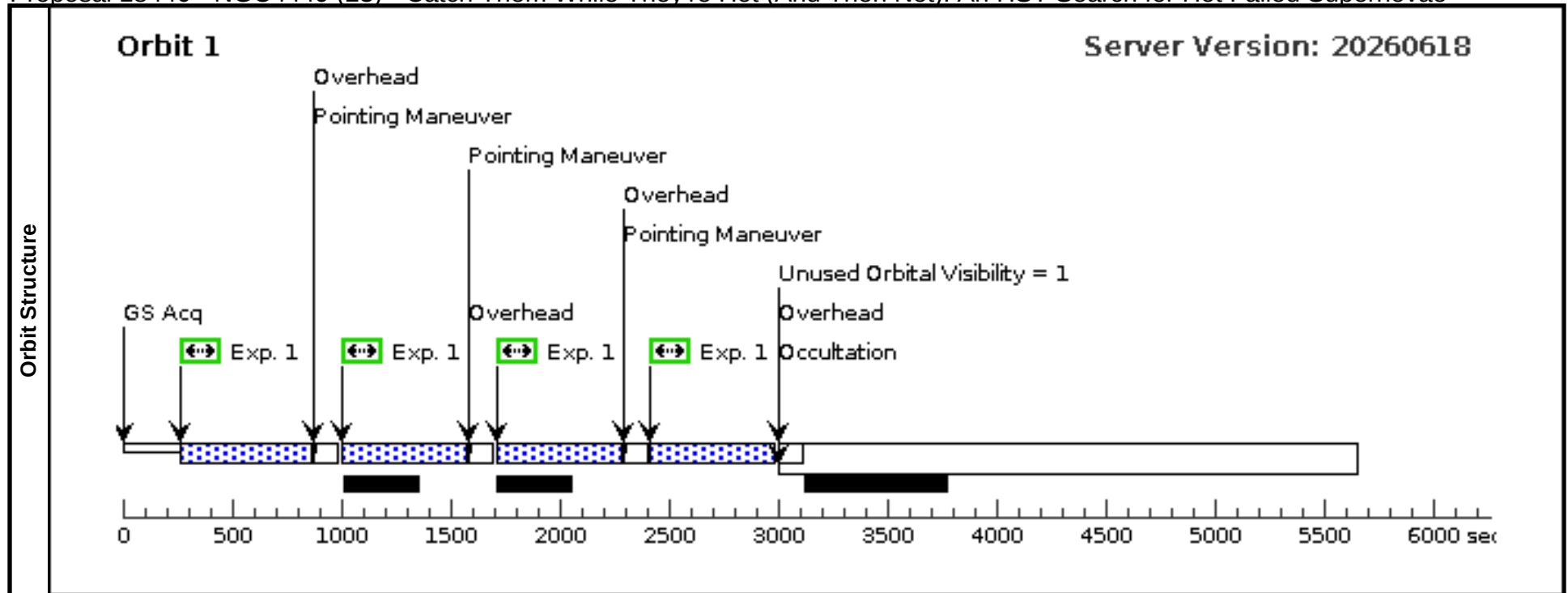
Proposal 18440 - NGC3627 (22) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Wed Aug 19 15:06:00 GMT 2026

Visit	Proposal 18440, NGC3627 (22)									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: WFC3/UVIS									
	Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=23.884 Purpose=DITHER Angle Between Sides=81.785 Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112 Center Pattern=false							(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(22)	NGC3627	RA: 11 20 14.9400 (170.0622500d) Dec: +12 57 53.81 (12.96495d) Equinox: J2000				V=9.65		Reference Frame: ICRS	
Exposures	Comments: Category=GALAXY Description=[SPIRAL]									
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F336W	(22) NGC3627	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC3627 (22) (1)	563 Secs (2252 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
Orbit Structure										
	Orbit 1 Server Version: 20260618									

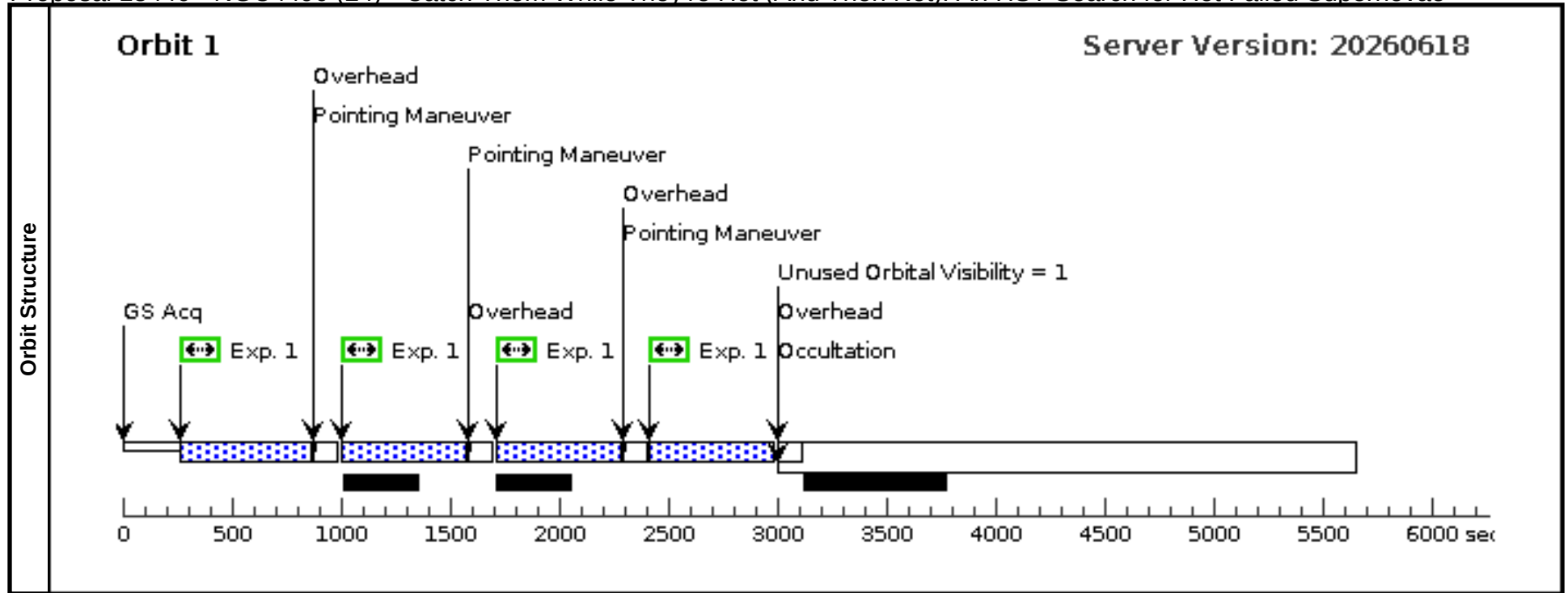
Proposal 18440 - NGC4449 (23) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC4449 (23)										Wed Aug 19 15:06:00 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112			Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false						(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(23)	NGC4449-1		RA: 12 28 13.6000 (187.0566667d) Dec: +44 05 35.14 (44.09309d) Equinox: J2000				V=9.99		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[AMORPHOUS IRREGULAR]											
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	F336W	(23) NGC4449-1	WFC3/UVIS, ACCUM, UVIS-CENTER		F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC4449 (23) (1)	570 Secs (2280 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	



Proposal 18440 - NGC4490 (24) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC4490 (24)										Wed Aug 19 15:06:00 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112			Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false						(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(25)	NGC4490-1		RA: 12 30 36.1399 (187.6505829d) Dec: +41 38 30.40 (41.64178d) Equinox: J2000				V=10.22		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[SPIRAL]											
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	F336W	(25) NGC4490-1	WFC3/UVIS, ACCUM, UVIS-CENTER		F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC4490 (24) (1)	570 Secs (2280 Secs)		
										[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]

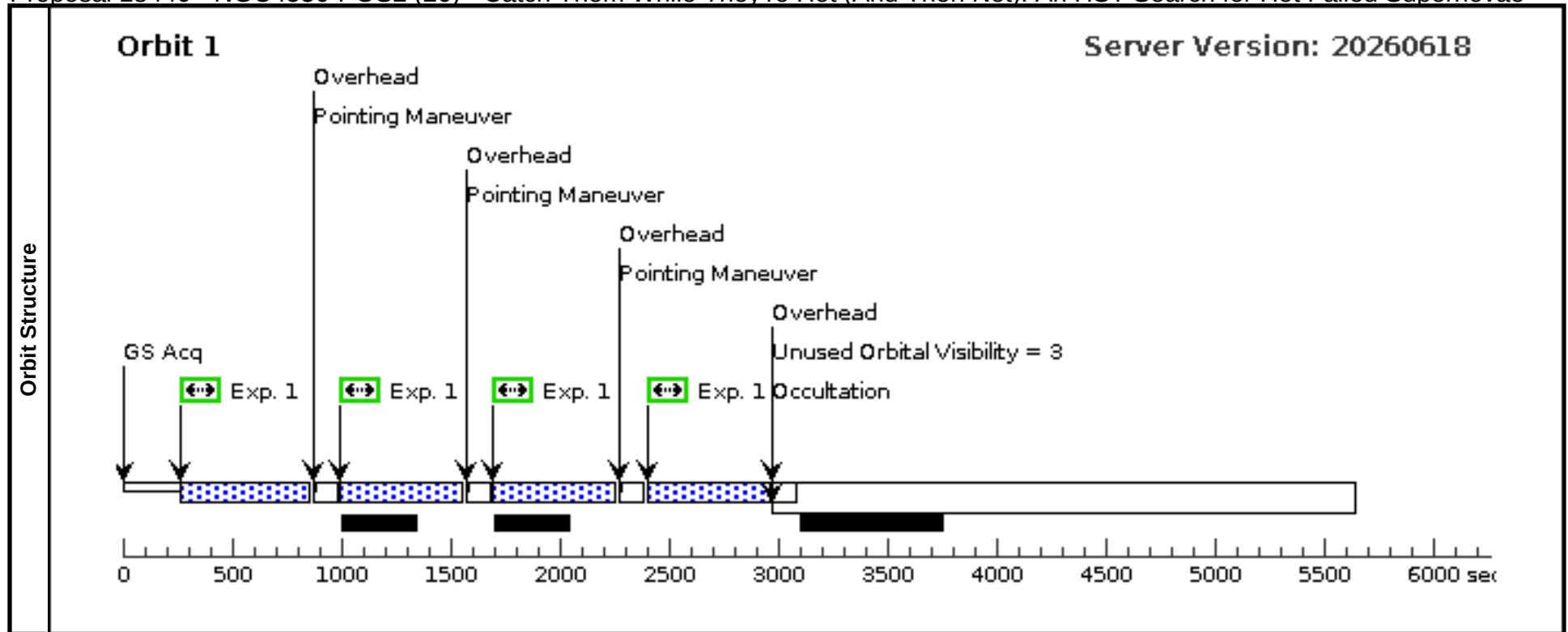


Proposal 18440 - NGC4536-POS1 (25) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC4536-POS1 (25)										Wed Aug 19 15:06:00 GMT 2026												
	Diagnostic Status: No Diagnostics																						
	Scientific Instruments: WFC3/UVIS																						
	Special Requirements: (none)																						
Patterns	#	Primary Pattern										Secondary Pattern										Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112										Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false										(1)	
Fixed Targets	#	Name		Target Coordinates				Targ. Coord. Corrections				Fluxes				Miscellaneous							
	(27)	NGC4536-1		RA: 12 34 29.9575 (188.6248229d) Dec: +02 10 58.04 (2.18279d) Equinox: J2000								V=10.55				Reference Frame: ICRS							
Comments: Category=GALAXY Description=[SPIRAL]																							
Exposures	#	Label	Target	Config,Mode,Aperture				Spectral Els.		Opt. Params.		Special Reqs.		Groups		Exp. Time (Total)/[Actual Dur.]				Orbit			
	1	F336W	(27) NGC4536-1	WFC3/UVIS, ACCUM, UVIS-CENTER				F336W		FLASH=15				Pattern 1, Exps 1-1 in NGC4536-POS1 (25) (1)		564 Secs (2256 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]				[1]			
Orbit Structure	Orbit 1 Server Version: 20260618																						

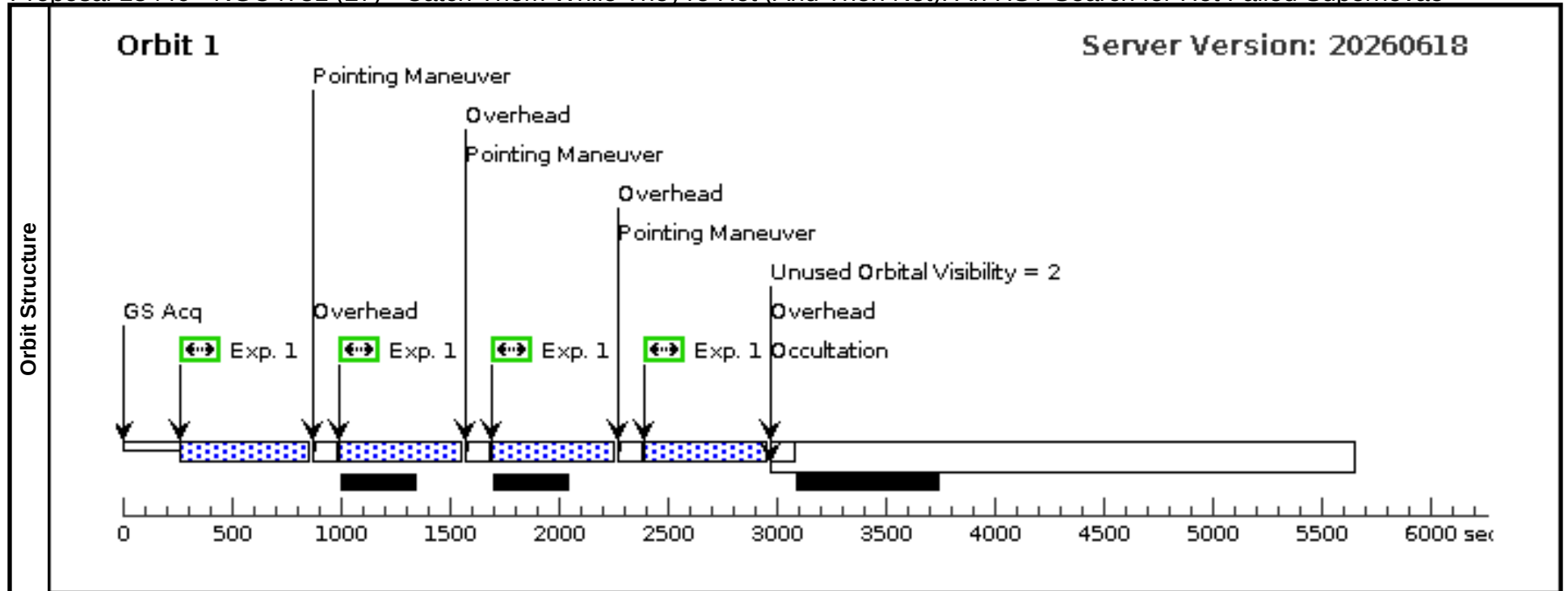
Proposal 18440 - NGC4536-POS2 (26) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC4536-POS2 (26)										Wed Aug 19 15:06:00 GMT 2026		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: (none)												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112			Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false								(1)
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(41)	NGC4536-2		RA: 12 34 20.1783 (188.5840763d) Dec: +02 12 11.65 (2.20324d) Equinox: J2000				V=10.55		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[SPIRAL]												
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	F336W	(41) NGC4536-2	WFC3/UVIS, ACCUM, UVIS-CENTER		F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC4536-POS2 (26) (1)	564 Secs (2256 Secs)		[1]	
										[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]			



Proposal 18440 - NGC4781 (27) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC4781 (27)										Wed Aug 19 15:06:00 GMT 2026		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: (none)												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112			Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false							(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(28)	NGC4781		RA: 12 54 23.8008 (193.5991700d) Dec: -10 32 13.63 (-10.53712d) Equinox: J2000				V=16		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[SPIRAL]												
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	F336W	(28) NGC4781	WFC3/UVIS, ACCUM, UVIS-CENTER		F336W	FLASH=15		Pattern 1, Exps 1-1 i n NGC4781 (27) (1)	563 Secs (2252 Secs)			
										[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]	



Proposal 18440 - NGC5248 (28) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Wed Aug 19 15:06:00 GMT 2026

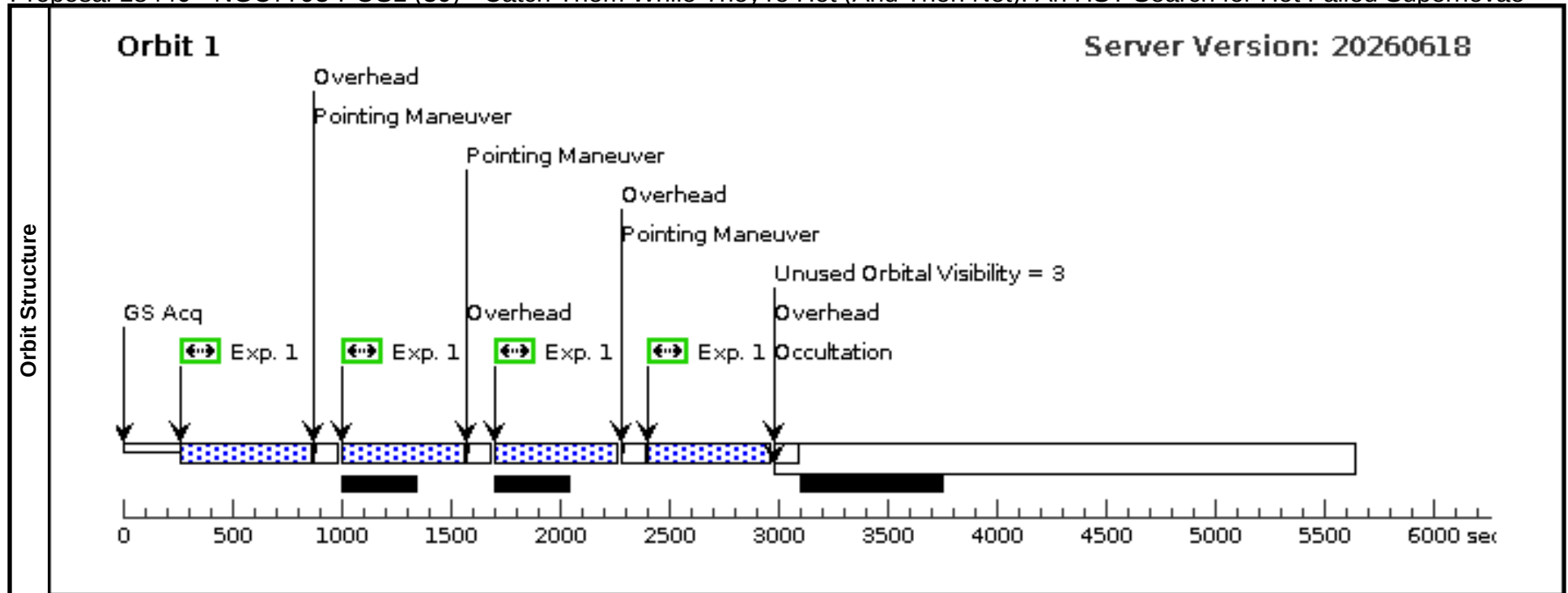
Visit	Proposal 18440, NGC5248 (28)									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: WFC3/UVIS									
	Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=23.884 Purpose=DITHER Angle Between Sides=81.785 Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112 Center Pattern=false							(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(29)	NGC5248	RA: 13 37 32.0690 (204.3836208d) Dec: +08 53 6.22 (8.88506d) Equinox: J2000				V=10.0		Reference Frame: ICRS	
Comments: Category=GALAXY Description=[SPIRAL]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F336W	(29) NGC5248	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC5248 (28) (1)	564 Secs (2256 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]
Orbit Structure	Orbit 1									
	Server Version: 20260618									

Proposal 18440 - IC5273 (29) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, IC5273 (29) Wed Aug 19 15:06:00 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=23.884 Purpose=DITHER Angle Between Sides=81.785 Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112 Center Pattern=false			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(30)	IC5273	RA: 22 59 26.4432 (344.8601800d) Dec: -37 42 19.58 (-37.70544d) Equinox: J2000		V=16
	Comments: Category=GALAXY Description=[SPIRAL]				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	F336W	(30) IC5273	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W
				Opt. Params.	Special Reqs.
				FLASH=15	
				Groups	Exp. Time (Total)/[Actual Dur.]
				Pattern 1, Exps 1-1 in IC5273 (29) (1)	568 Secs (2272 Secs)
					[=>(Pattern 1)]
					[=>(Pattern 2)]
					[=>(Pattern 3)]
					[=>(Pattern 4)]
					[1]
Orbit Structure	Orbit 1 Server Version: 20260618				

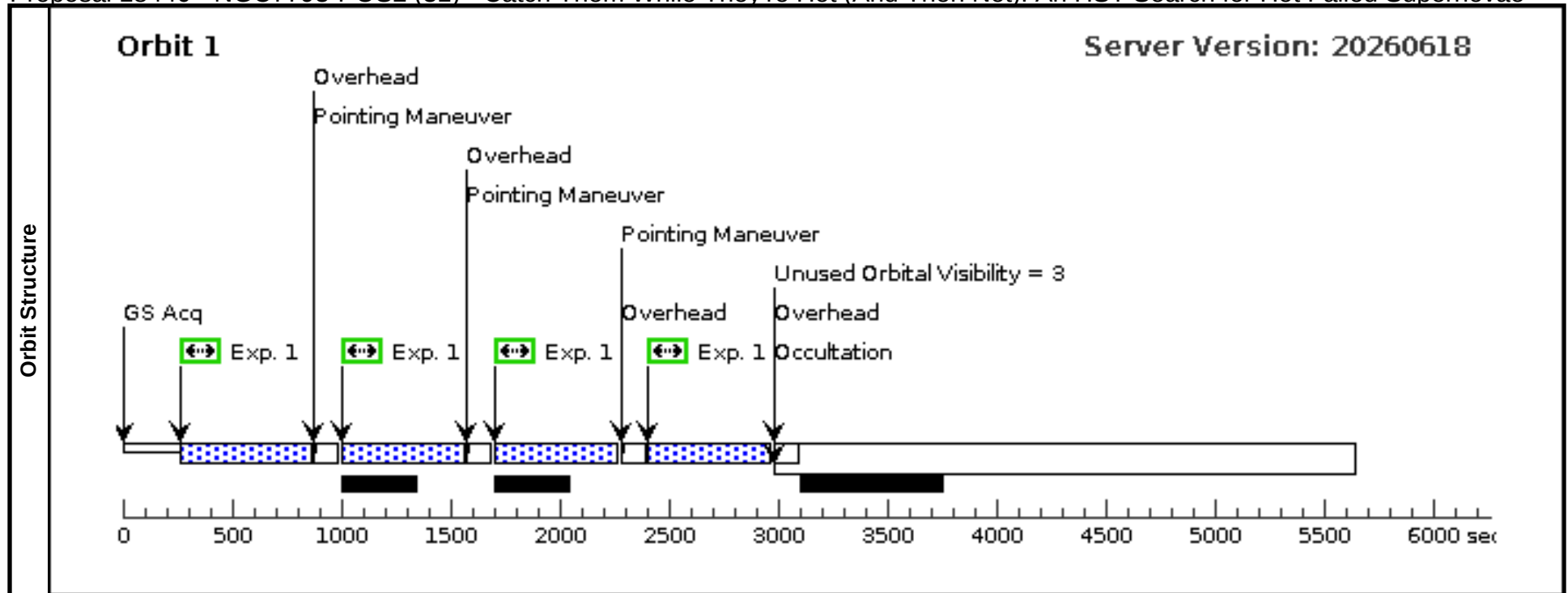
Proposal 18440 - NGC7793-POS1 (30) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC7793-POS1 (30)										Wed Aug 19 15:06:00 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112			Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false						(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(31)	NGC7793-1		RA: 23 57 40.8600 (359.4202500d) Dec: -32 35 20.60 (-32.58906d) Equinox: J2000				V=9.89		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[SPIRAL]											
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	F336W	(31) NGC7793-1	WFC3/UVIS, ACCUM, UVIS-CENTER		F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC7793-POS1 (30) (1)	566 Secs (2264 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]



Proposal 18440 - NGC7793-POS2 (31) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC7793-POS2 (31)										Wed Aug 19 15:06:00 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112			Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false						(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(32)	NGC7793-2		RA: 23 57 51.2251 (359.4634379d) Dec: -32 35 13.90 (-32.58719d) Equinox: J2000				V=9.89		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[SPIRAL]											
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	F336W	(32) NGC7793-2	WFC3/UVIS, ACCUM, UVIS-CENTER		F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC7793-POS2 (31) (1)	566 Secs (2264 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]



Proposal 18440 - NGC685 (32) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Wed Aug 19 15:06:00 GMT 2026

Visit	Proposal 18440, NGC685 (32)									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: WFC3/UVIS									
	Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=23.884 Purpose=DITHER Angle Between Sides=81.785 Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112 Center Pattern=false							(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(35)	NGC0685	RA: 01 47 43.0136 (26.9292233d) Dec: -52 45 50.48 (-52.76402d) Equinox: J2000				V=10.0		Reference Frame: ICRS	
Exposures	Comments: Category=GALAXY Description=[SPIRAL]									
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F336W	(35) NGC0685	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC685 (32) (1)	576 Secs (2304 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
Orbit Structure	Orbit 1									
	Server Version: 20260618									
	GS Acq Exp. 1 Pointing Maneuver Overhead Occultation Unused Orbital Visibility = 2									
	0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec									

Proposal 18440 - NGC1365 (33) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC1365 (33) Wed Aug 19 15:06:00 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=23.884 Purpose=DITHER Angle Between Sides=81.785 Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112 Center Pattern=false			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(36)	NGC1365	RA: 03 33 37.3532 (53.4056383d) Dec: -36 08 35.06 (-36.14307d) Equinox: J2000		V=9.63
	Comments: Category=GALAXY Description=[SPIRAL]				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	F336W	(36) NGC1365	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W
				FLASH=15	
					Pattern 1, Exps 1-1 in NGC1365 (33) (1)
					Exp. Time (Total)/[Actual Dur.]
					568 Secs (2272 Secs)
					[=>(Pattern 1)]
					[=>(Pattern 2)]
					[=>(Pattern 3)]
					[=>(Pattern 4)]
					[1]
Orbit Structure	Orbit 1 Server Version: 20260618				
	Diagram illustrating the Orbit Structure for Orbit 1, showing the sequence of events over time (0 to 6000 seconds). Key events and durations shown: - GS Acq - Exp. 1 (Green box) - Overhead - Pointing Maneuver - Overhead - Exp. 1 (Green box) - Overhead - Exp. 1 (Green box) - Overhead - Exp. 1 (Green box) - Overhead - Exp. 1 (Green box) - Overhead - Occultation - Unused Orbital Visibility = 0 The timeline is marked in seconds (0 to 6000 sec).				

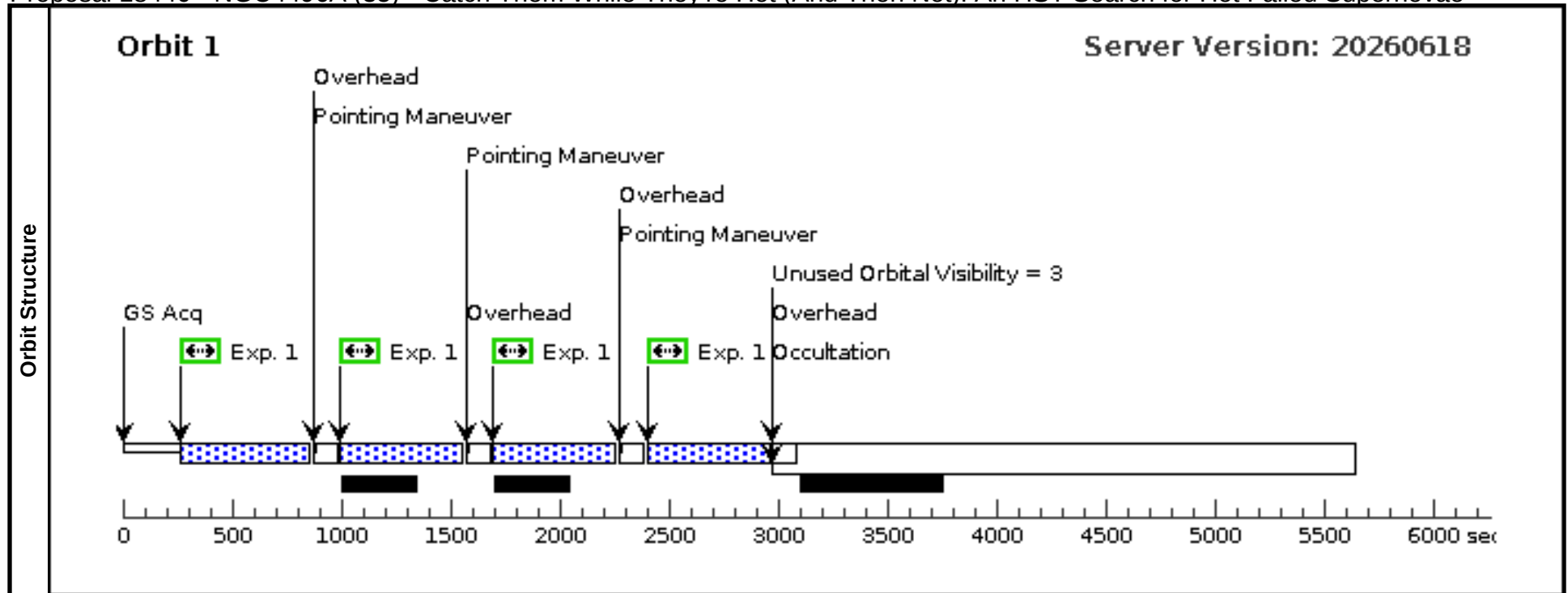
Proposal 18440 - NGC2283 (34) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Wed Aug 19 15:06:00 GMT 2026

Visit	Proposal 18440, NGC2283 (34)										Wed Aug 19 15:06:00 GMT 2026		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: (none)												
Patterns	#	Primary Pattern					Secondary Pattern				Exposures		
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=23.884 Purpose=DITHER Angle Between Sides=81.785 Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112 Center Pattern=false									(1)		
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(37)	NGC2283	RA: 06 45 52.7928 (101.4699700d) Dec: -18 12 38.88 (-18.21080d) Equinox: J2000					V=16		Reference Frame: ICRS			
Comments: Category=GALAXY Description=[SPIRAL]													
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	F336W	(37) NGC2283	WFC3/UVIS, ACCUM, UVIS-CENTER		F336W	FLASH=15			Pattern 1, Exps 1-1 in NGC2283 (34) (1)	564 Secs (2256 Secs)		
										[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]	
Orbit Structure	Orbit 1												
	Server Version: 20260618												

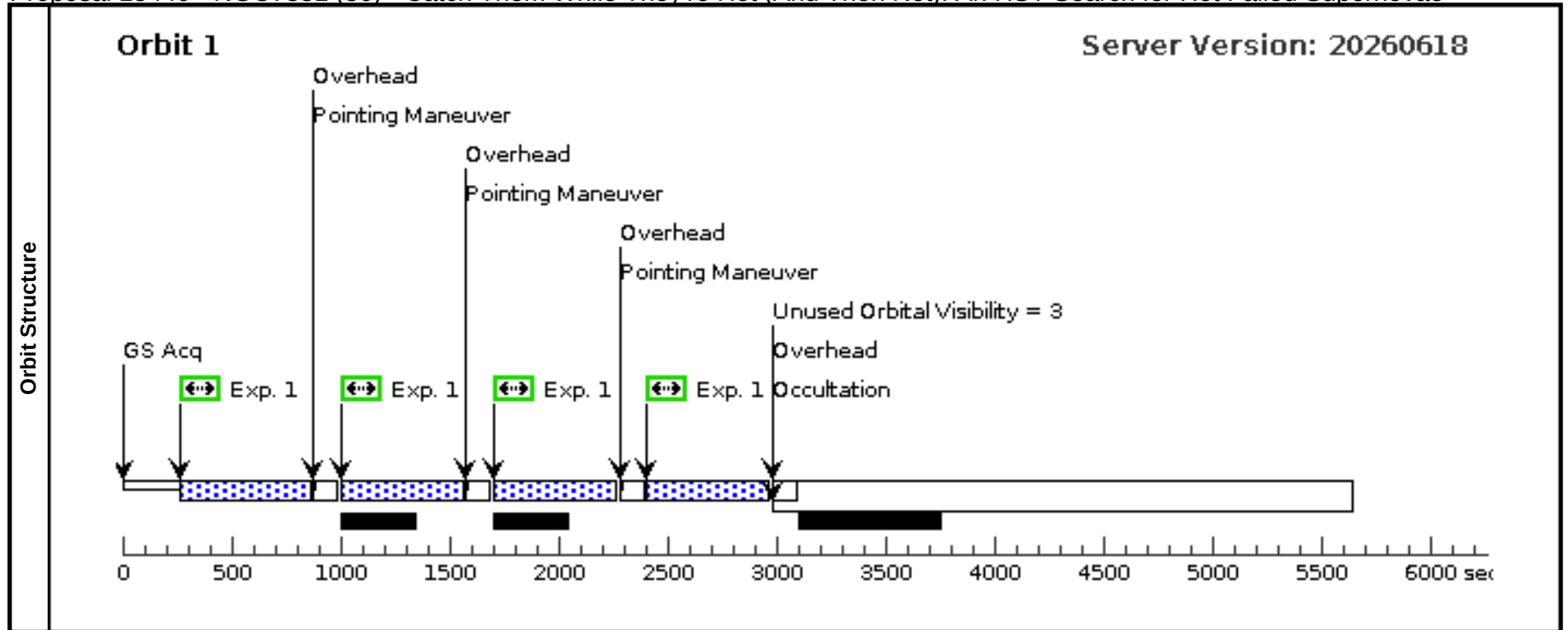
Proposal 18440 - NGC4496A (35) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC4496A (35)										Wed Aug 19 15:06:00 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112			Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false						(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(38)	NGC4496A		RA: 12 31 39.9624 (187.9165100d) Dec: +03 56 19.86 (3.93885d) Equinox: J2000				V=16		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[SPIRAL]											
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	F336W	(38) NGC4496A	WFC3/UVIS, ACCUM, UVIS-CENTER		F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC4496A (35) (1)	564 Secs (2256 Secs)		
										[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]



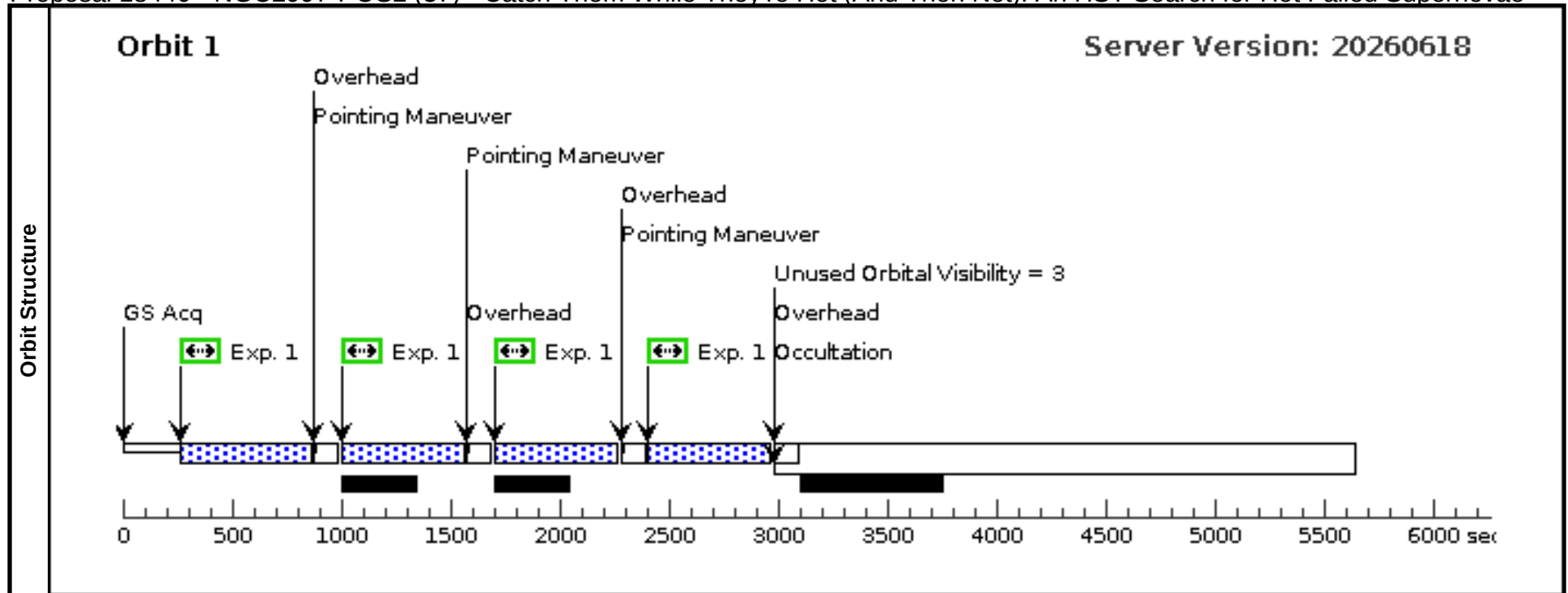
Proposal 18440 - NGC7331 (36) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC7331 (36)										Wed Aug 19 15:06:00 GMT 2026		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: (none)												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=23.884 Purpose=DITHER Angle Between Sides=81.785 Number Of Points=4 Center Pattern=false Point Spacing=0.173 Line Spacing=0.112										(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(39)	NGC7331-1		RA: 22 37 5.5999 (339.2733329d) Dec: +34 24 31.90 (34.40886d) Equinox: J2000				V=9.48		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[SPIRAL]												
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	F336W	(39) NGC7331-1	WFC3/UVIS, ACCUM, UVIS-CENTER		F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC7331 (36) (1)	566 Secs (2264 Secs)			
										[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]	



Proposal 18440 - NGC2997-POS2 (37) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Visit	Proposal 18440, NGC2997-POS2 (37)										Wed Aug 19 15:06:00 GMT 2026		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: (none)												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112			Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false							(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(42)	NGC2997-2		RA: 09 45 44.5683 (146.4357012d) Dec: -31 11 24.92 (-31.19026d) Equinox: J2000				V=16		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[RADIO GALAXY, SPIRAL]												
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	F336W	(42) NGC2997-2	WFC3/UVIS, ACCUM, UVIS-CENTER		F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC2997-POS2 (37) (1)	566 Secs (2264 Secs)			
										[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]	



Proposal 18440 - NGC1313-POS2 (38) - Catch Them While They're Hot (And Then Not): An HST Search for Hot Failed Supernovae

Wed Aug 19 15:06:00 GMT 2026

Visit	Proposal 18440, NGC1313-POS2 (38)										Wed Aug 19 15:06:00 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Patterns	#	Primary Pattern					Secondary Pattern			Exposures		
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=23.884 Purpose=DITHER Angle Between Sides=81.785 Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112 Center Pattern=false								(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(43)	NGC1313-2	RA: 03 18 9.6085 (49.5400354d) Dec: -66 30 3.47 (-66.50096d) Equinox: J2000				V=9.2		Reference Frame: ICRS			
Comments: Category=GALAXY Description=[SPIRAL]												
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(43) NGC1313-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=15		Pattern 1, Exps 1-1 in NGC1313-POS2 (38) (1)	593 Secs (2372 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]	
Orbit Structure	Orbit 1											Server Version: 20260618