



# 17126 - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50,000 Extragalactic HII Regions

Cycle: 30, Proposal Category: GO

(Treasury)

(Availability Mode: SUPPORTED)

## INVESTIGATORS

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Dr. Antonio Usero (CoI) (ESA Member)	Observatorio Astronomico Nacional
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Dr. Thomas Williams (CoI) (ESA Member)	University of Oxford

## 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) IC-5332	WFC3/UVIS	1	18-Jun-2024 15:00:22.0	yes
02	(2) NGC-628	WFC3/UVIS	1	18-Jun-2024 15:00:22.0	yes
03	(3) NGC-1087	WFC3/UVIS	1	18-Jun-2024 15:00:23.0	yes
04	(4) NGC-1365-N	WFC3/UVIS	1	18-Jun-2024 15:00:23.0	yes
05	(5) NGC-1385	WFC3/UVIS	1	18-Jun-2024 15:00:24.0	yes
06	(6) NGC-1512	WFC3/UVIS	1	18-Jun-2024 15:00:24.0	yes
21	(20) NGC-1512-2	WFC3/UVIS	1	18-Jun-2024 15:00:24.0	yes
07	(7) NGC-1566	WFC3/UVIS	1	18-Jun-2024 15:00:25.0	yes
08	(8) NGC-2835-N	WFC3/UVIS	1	18-Jun-2024 15:00:25.0	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>
09	(9) NGC-2835-S	WFC3/UVIS	1	18-Jun-2024 15:00:26.0	yes
10	(10) NGC-3351	WFC3/UVIS	1	18-Jun-2024 15:00:26.0	yes
11	(11) NGC-3627	WFC3/UVIS	1	18-Jun-2024 15:00:27.0	yes
12	(12) NGC-4254-E	WFC3/UVIS	1	18-Jun-2024 15:00:27.0	yes
13	(13) NGC-4254-W	WFC3/UVIS	1	18-Jun-2024 15:00:28.0	yes
14	(14) NGC-4303	WFC3/UVIS	1	18-Jun-2024 15:00:28.0	yes
15	(15) NGC-4321	WFC3/UVIS	1	18-Jun-2024 15:00:28.0	yes
16	(16) NGC-4535	WFC3/UVIS	1	18-Jun-2024 15:00:29.0	yes
20	(16) NGC-4535	WFC3/UVIS	1	18-Jun-2024 15:00:29.0	yes
17	(17) NGC-5068-N	WFC3/UVIS	1	18-Jun-2024 15:00:30.0	yes
18	(18) NGC-5068-S	WFC3/UVIS	1	18-Jun-2024 15:00:31.0	yes
19	(19) NGC-7496	WFC3/UVIS	1	18-Jun-2024 15:00:31.0	yes

21 Total Orbits Used

## ABSTRACT

We propose a Treasury H $\alpha$  (F657N) imaging survey that will measure the sizes (radii) and structures (e.g. shell fraction) for >50,000 nebulae, including HII regions, supernovae, and planetary nebulae across the full range of galactic environments in 19 nearby main-sequence galaxies. These targets form a representative sample of massive, star-forming galaxies, and these proposed observations, only possible with the HST, will complete a rich dataset of i) VLT/MUSE IFU, providing spectroscopic information for all identified nebulae; ii) multi-filter broad-band HST imaging of >40,000 clusters, iii) ALMA spectral line mapping of >20,000 molecular clouds; and iv) >100 hours of upcoming near- and mid-IR imaging from JWST probing dust emission and embedded star formation. Together these maps and higher-level data products are crucial for answering: (1) What is the dominant mechanism for pre-SNe stellar feedback? (2) On what timescales do young clusters clear their birth-clouds? (3) What processes are responsible for cloud destruction? (4) What role does escaping radiation play in larger-scale galactic evolution? Taken together, the products obtained as part of this Treasury program will provide the definitive high resolution view of HII regions in nearby galaxies, essential to answer questions fundamental to our understanding of star formation and stellar feedback. These observations are needed now to form a crucial part of Hubble's lasting legacy.

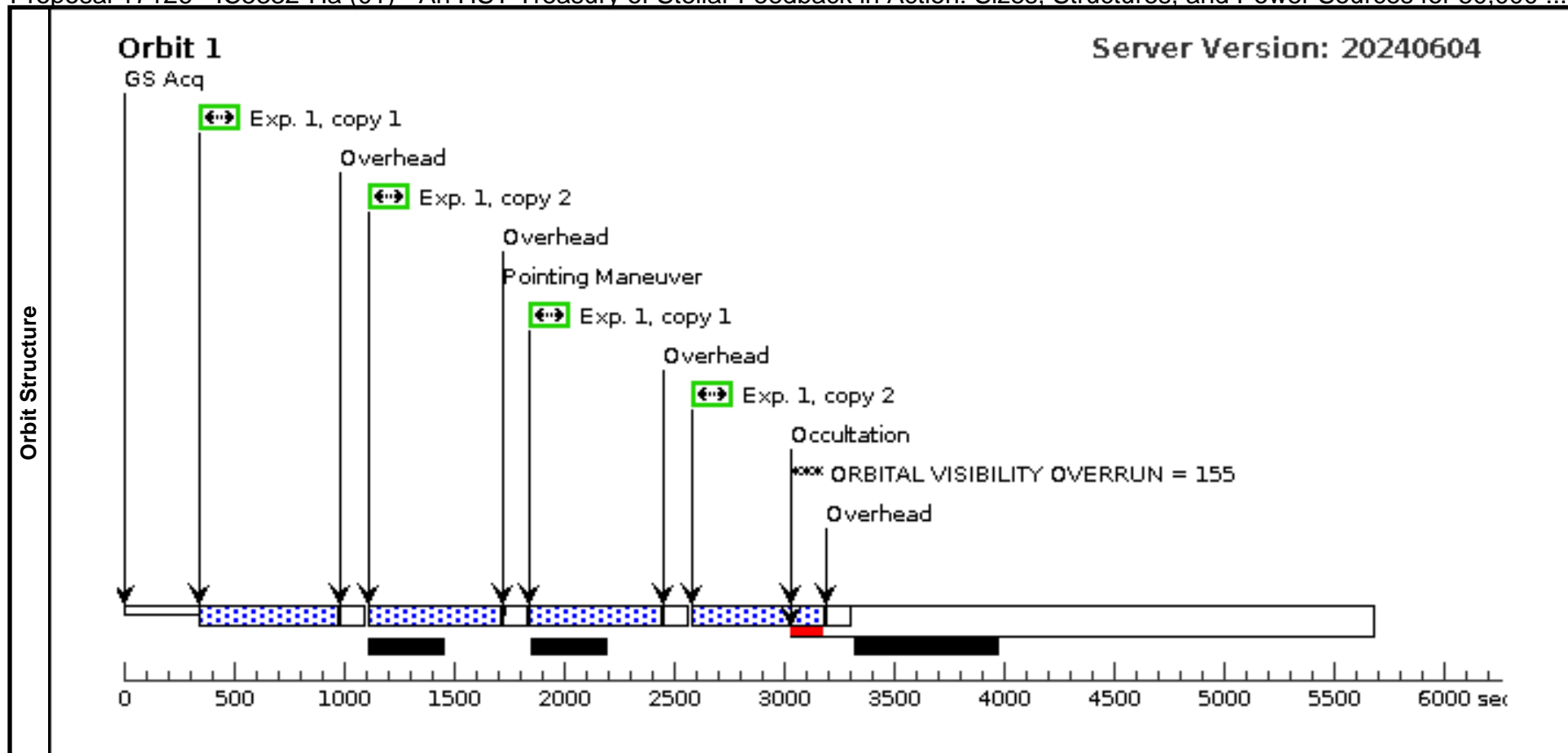
## **OBSERVING DESCRIPTION**

The PHANGS-Halpha sample contains 19 nearby galaxies ( $d \leq 17$  Mpc) with existing broad-band imaging as part of the PHANGS-HST program, VLT/MUSE IFU spectroscopy as part of PHANGS-MUSE, and upcoming JWST imaging as part of PHANGS-JWST. The new HST-Halpha observations are critical for: (1) breaking the age/reddening degeneracy of star clusters, (2) identifying complete samples of HII regions, including the most compact ones which are not detectable in ground-based observations, (3) measuring the radii of tens of thousands of HII regions (which is only possible from the high resolution imaging of HST), and (4) directly measuring the leakage of ionizing photons from HII regions.

We will obtain Halpha narrow-band imaging with the appropriate narrowband Halpha filter using 4 exposures (~600 seconds each) in a single orbit per pointing. It is critical to step over the gap between CCDs in the WFC3 camera, and also to eliminate cosmic rays. Sub-pixel dithering is less important for this program due to the extended morphology of the ionized gas. When possible, we restrict the orientation angle to closely match that used for the PHANGS-HST broad-band images.

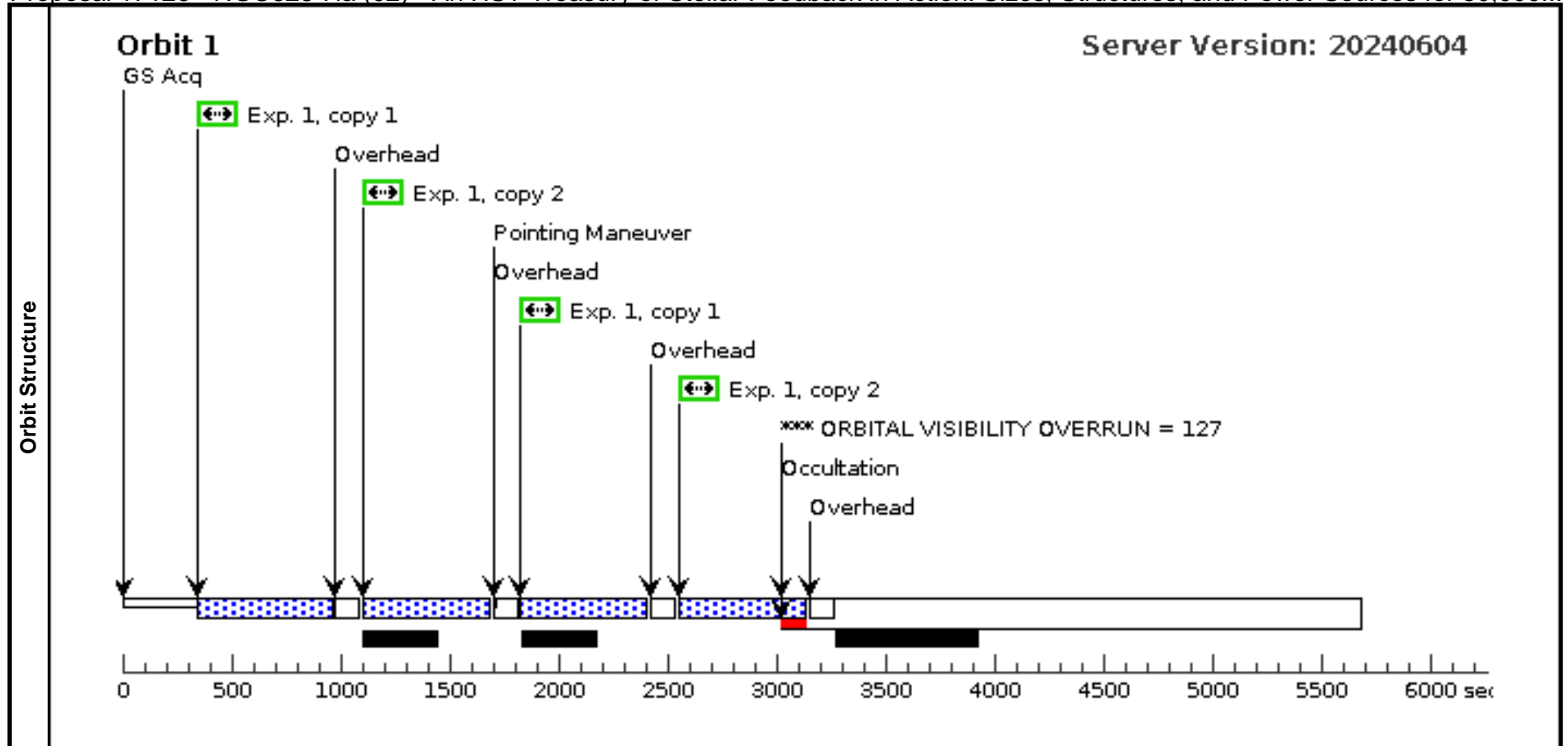
# Proposal 17126 - IC5332-Ha (01) - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50,000 ...

Visit	Proposal 17126, IC5332-Ha (01), completed										Tue Jun 18 19:00:31 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: WFC3/UVIS													
	Special Requirements: ORIENT 277D TO 283 D													
Diagnostics	(IC5332-Ha (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Patterns	#	Primary Pattern					Secondary Pattern					Exposures		
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=MOSAIC                              Pattern Orientation=85.759 Number Of Points=2                              Angle Between Sides= Point Spacing=2.414                              Center Pattern=true Line Spacing=										(1)		
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous				
	(1)	IC-5332		RA: 23 34 26.6300 (353.6109583d) Dec: -36 06 1.50 (-36.10042d) Equinox: J2000				V=10.00		Reference Frame: SIMBAD				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.													
	Category=GALAXY Description=[SPIRAL]													
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1		(1) IC-5332	WFC3/UVIS, ACCUM, UVIS-CENTER		F658N	FLASH=18		Pattern 1, Exps 1-1 i n IC5332-Ha (01) (1)	600 Secs X 2 (2392 Secs) [==>598.0 Secs (Pattern 1, Copy 1)] [==>598.0 Secs (Pattern 1, Copy 2)] [==>598.0 Secs (Pattern 2, Copy 1)] [==>598.0 Secs (Pattern 2, Copy 2)]		[1]		



# Proposal 17126 - NGC628-Ha (02) - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50,000...

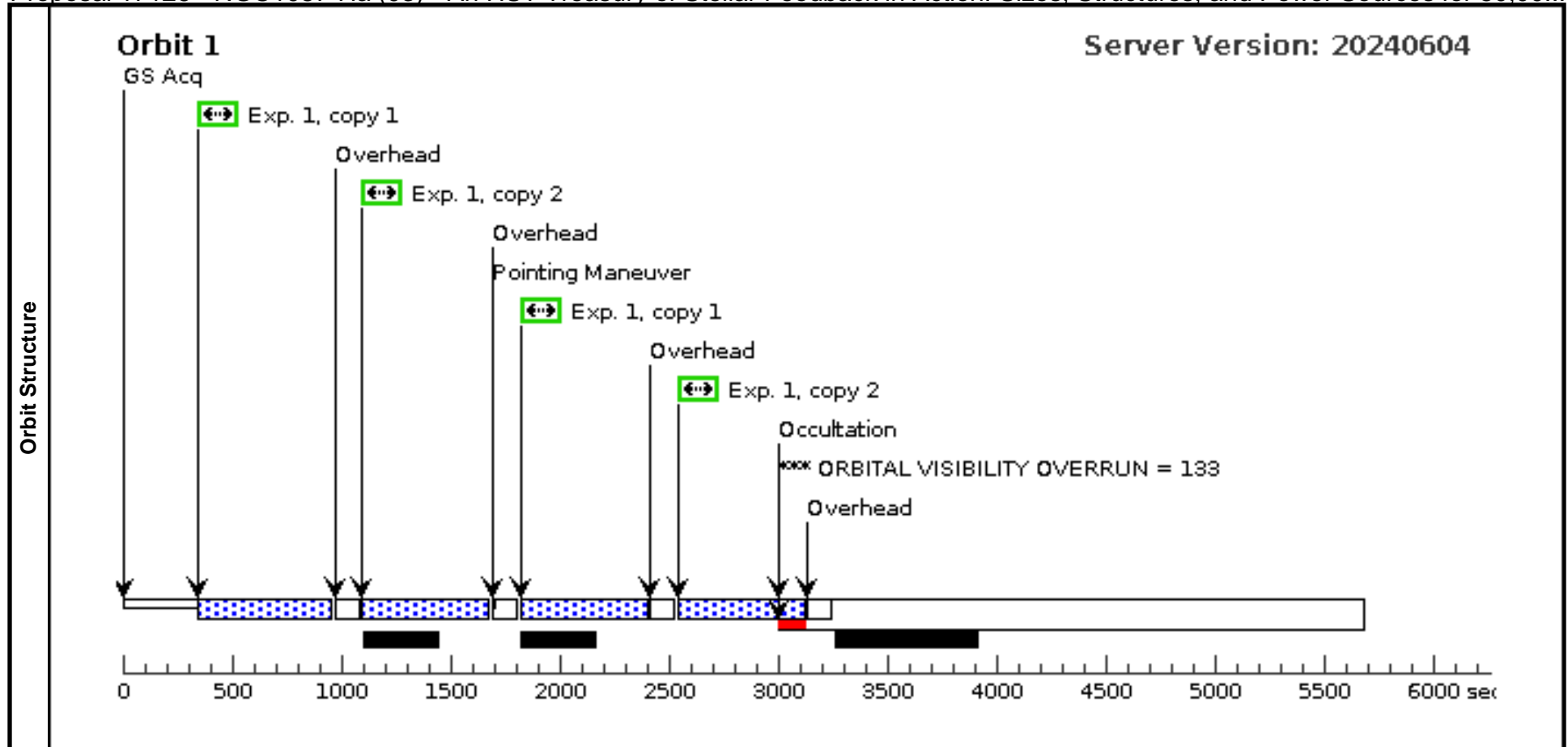
Visit	Proposal 17126, NGC628-Ha (02), completed										Tue Jun 18 19:00:31 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Diagnostics	(NGC628-Ha (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=MOSAIC    Pattern Orientation=85.759 Number Of Points=2    Angle Between Sides= Point Spacing=2.414    Center Pattern=true Line Spacing=									(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(2)	NGC-628		RA: 01 36 52.0600 (24.2169167d) Dec: +15 45 50.80 (15.76411d) Equinox: J2000				V=9.95		Reference Frame: Simbad		
	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		(2) NGC-628	WFC3/UVIS, ACCUM, UVIS-CENTER		F658N	FLASH=18		Pattern 1, Exps 1-1 i n NGC628-Ha (02) (1)	590 Secs X 2 (2348 Secs) [==>587.0 Secs (Pattern 1, Copy 1)] [==>587.0 Secs (Pattern 1, Copy 2)] [==>587.0 Secs (Pattern 2, Copy 1)] [==>587.0 Secs (Pattern 2, Copy 2)]		[1]





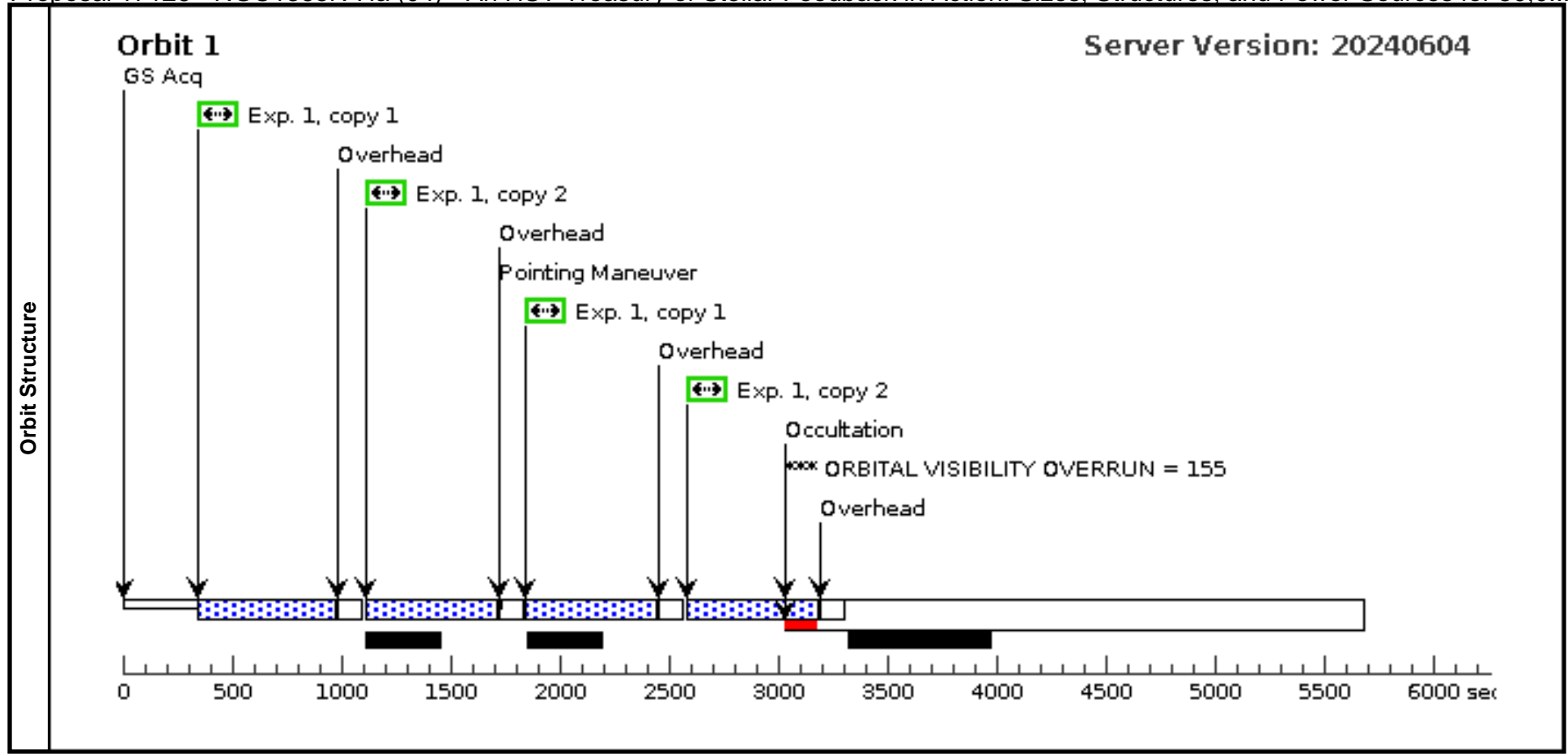
# Proposal 17126 - NGC1087-Ha (03) - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50.00...

Visit	Proposal 17126, NGC1087-Ha (03), completed										Tue Jun 18 19:00:32 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: ORIENT 80D TO 90 D; ORIENT 260D TO 270 D											
Diagnostics	(NGC1087-Ha (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=MOSAIC                              Pattern Orientation=85.759 Number Of Points=2                              Angle Between Sides= Point Spacing=2.414                              Center Pattern=true Line Spacing=									(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(3)	NGC-1087		RA: 02 46 25.1545 (41.6048104d) Dec: -00 29 55.45 (-.49874d) Equinox: J2000				V=10.00		Reference Frame: SIMBAD		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	Category=GALAXY											
Description=[SPIRAL]												
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(3) NGC-1087	WFC3/UVIS, ACCUM, UVIS-FIX		F657N	FLASH=17		Pattern 1, Exps 1-1 i n NGC1087-Ha (03) (1)	586 Secs X 2 (2336 Secs)		
										[==>584.0 Secs (Pattern 1, Copy 1)]		[1]
										[==>584.0 Secs (Pattern 1, Copy 2)]		
										[==>584.0 Secs (Pattern 2, Copy 1)]		
										[==>584.0 Secs (Pattern 2, Copy 2)]		



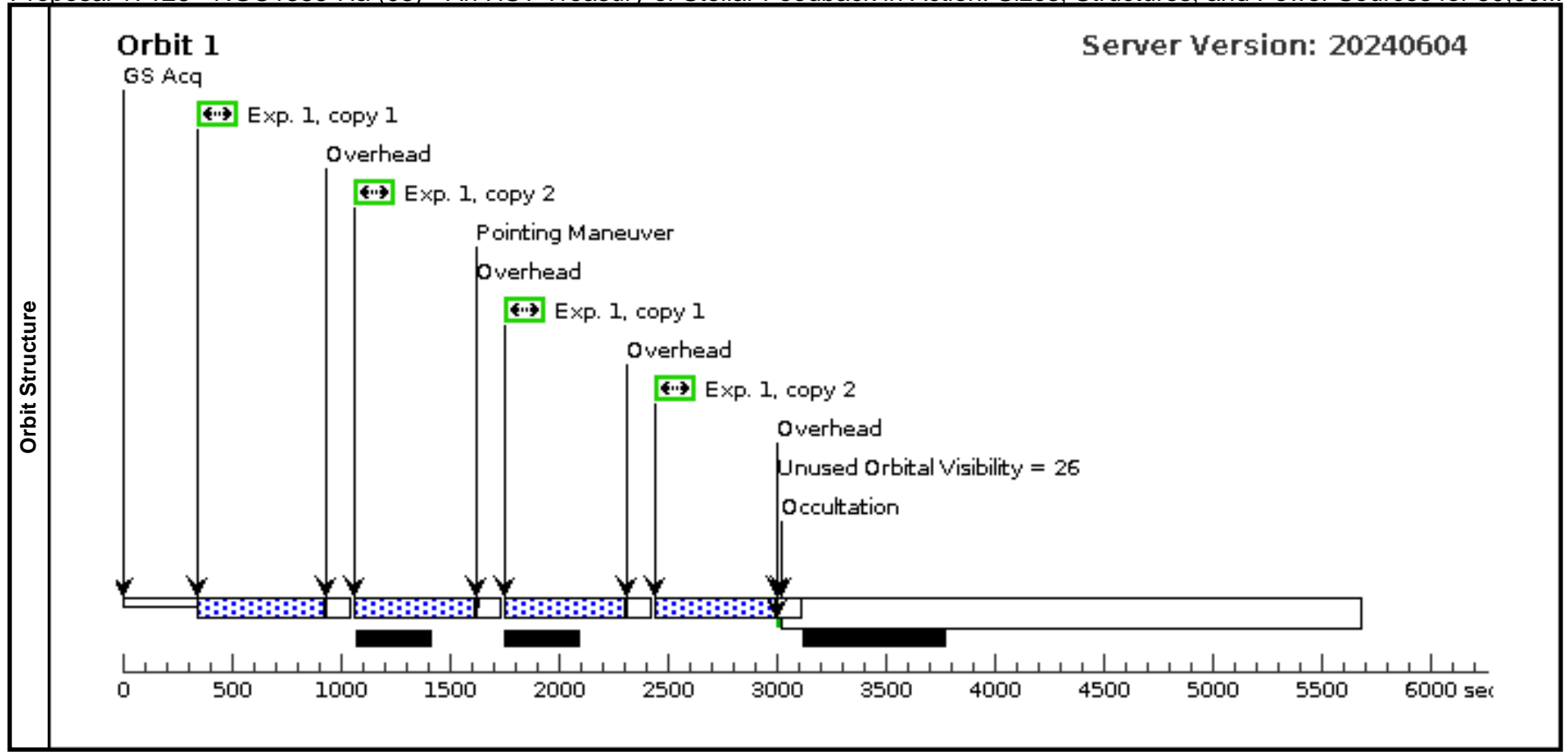
# Proposal 17126 - NGC1365N-Ha (04) - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50,0...

Visit	Proposal 17126, NGC1365N-Ha (04), completed										Tue Jun 18 19:00:32 GMT 2024		
	Diagnostic Status: Warning												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: ORIENT 241D TO 247 D												
Diagnostics	(NGC1365N-Ha (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=MOSAIC                              Pattern Orientation=85.759 Number Of Points=2                              Angle Between Sides= Point Spacing=2.414                              Center Pattern=true Line Spacing=										(1)	
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(4)	NGC-1365-N	RA: 03 33 37.3532 (53.4056383d) Dec: -36 08 35.06 (-36.14307d) Equinox: J2000						V=9.63		Reference Frame: SIMBAD		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.												
	Category=GALAXY Description=[SPIRAL]												
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1		(4) NGC-1365-N	WFC3/UVIS, ACCUM, UVIS-CENTER	F657N	FLASH=17		Pattern 1, Exps 1-1 i n NGC1365N-Ha (0 4) (1)	601 Secs X 2 (2392 Secs) [==>598.0 Secs (Pattern 1, Copy 1)] [==>598.0 Secs (Pattern 1, Copy 2)] [==>598.0 Secs (Pattern 2, Copy 1)] [==>598.0 Secs (Pattern 2, Copy 2)]		[1]		



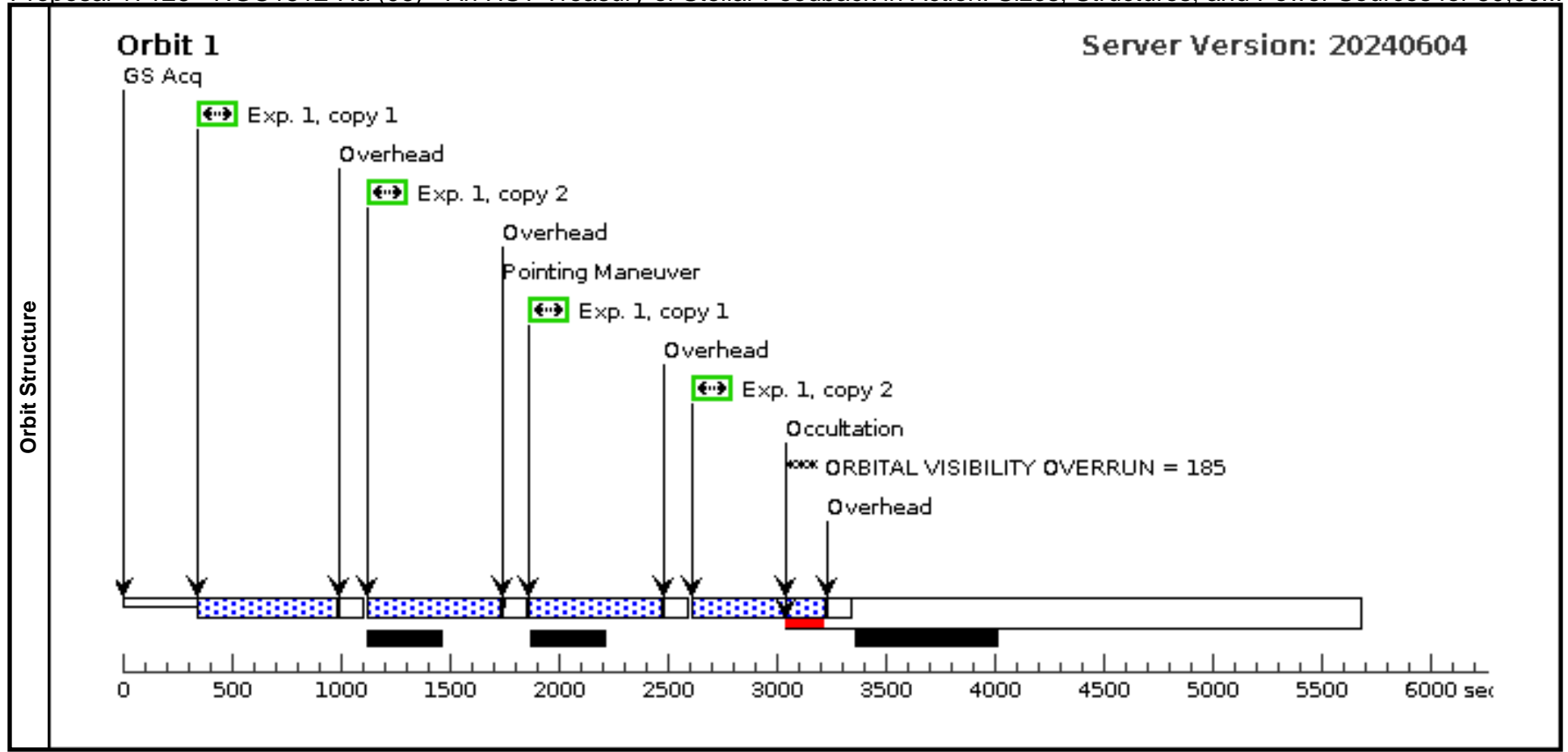
# Proposal 17126 - NGC1385-Ha (05) - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50.00...

Visit	Proposal 17126, NGC1385-Ha (05), completed										Tue Jun 18 19:00:32 GMT 2024		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: ORIENT 211.8D TO 217.8 D												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=MOSAIC                              Pattern Orientation=85.759 Number Of Points=2                              Angle Between Sides= Point Spacing=2.414                              Center Pattern=true Line Spacing=										(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous				
	(5)	NGC-1385	RA: 03 37 28.5062 (54.3687758d) Dec: -24 30 2.60 (-24.50072d) Equinox: J2000				V=10.94		Reference Frame: SIMBAD				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.												
	Category=GALAXY												
Description=[SPIRAL]													
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1		(5) NGC-1385	WFC3/UVIS, ACCUM, UVIS-CENTER	F657N	FLASH=17		Pattern 1, Exps 1-1 i n NGC1385-Ha (05) (1)	550 Secs X 2 (2200 Secs)				
									[==>(Pattern 1, Copy 1)]		[1]		
									[==>(Pattern 1, Copy 2)]				
									[==>(Pattern 2, Copy 1)]				
								[==>(Pattern 2, Copy 2)]					



# Proposal 17126 - NGC1512-Ha (06) - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50,00...

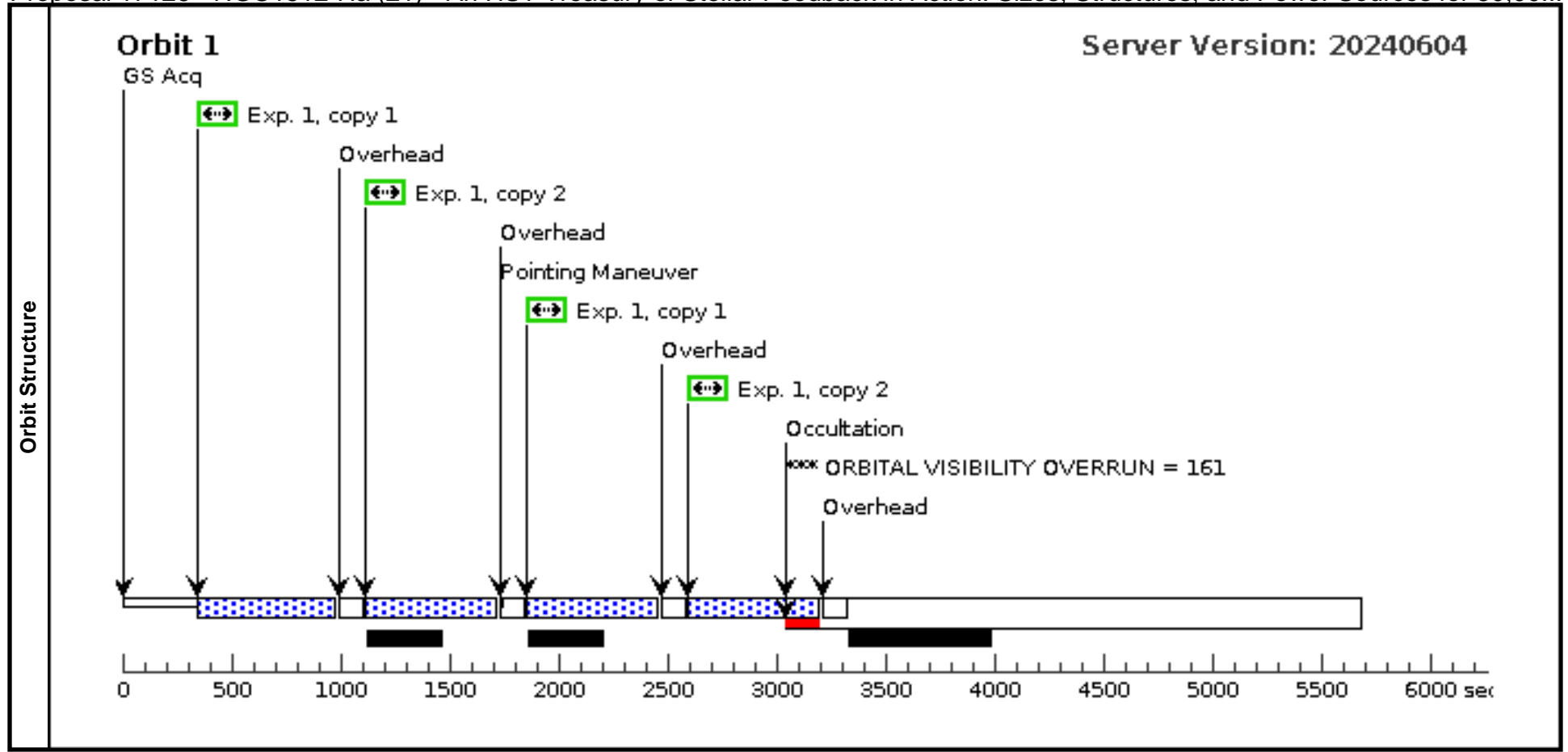
Visit	Proposal 17126, NGC1512-Ha (06), failed										Tue Jun 18 19:00:32 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: ORIENT 271D TO 277 D											
Diagnostics	(NGC1512-Ha (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=MOSAIC                              Pattern Orientation=85.759 Number Of Points=2                              Angle Between Sides= Point Spacing=2.414                              Center Pattern=true Line Spacing=									(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(6)	NGC-1512	RA: 04 03 44.8448 (60.9368533d) Dec: -43 22 13.05 (-43.37029d) Equinox: J2000				V=11.13		Reference Frame: Simbad			
	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		(6) NGC-1512	WFC3/UVIS, ACCUM, UVIS-CENTER	F658N	FLASH=18		Pattern 1, Exps 1-1 i n NGC1512-Ha (06) (1)	610 Secs X 2 (2432 Secs)			
									[==>608.0 Secs (Pattern 1, Copy 1)] [==>608.0 Secs (Pattern 1, Copy 2)] [==>608.0 Secs (Pattern 2, Copy 1)] [==>608.0 Secs (Pattern 2, Copy 2)]		[1]	





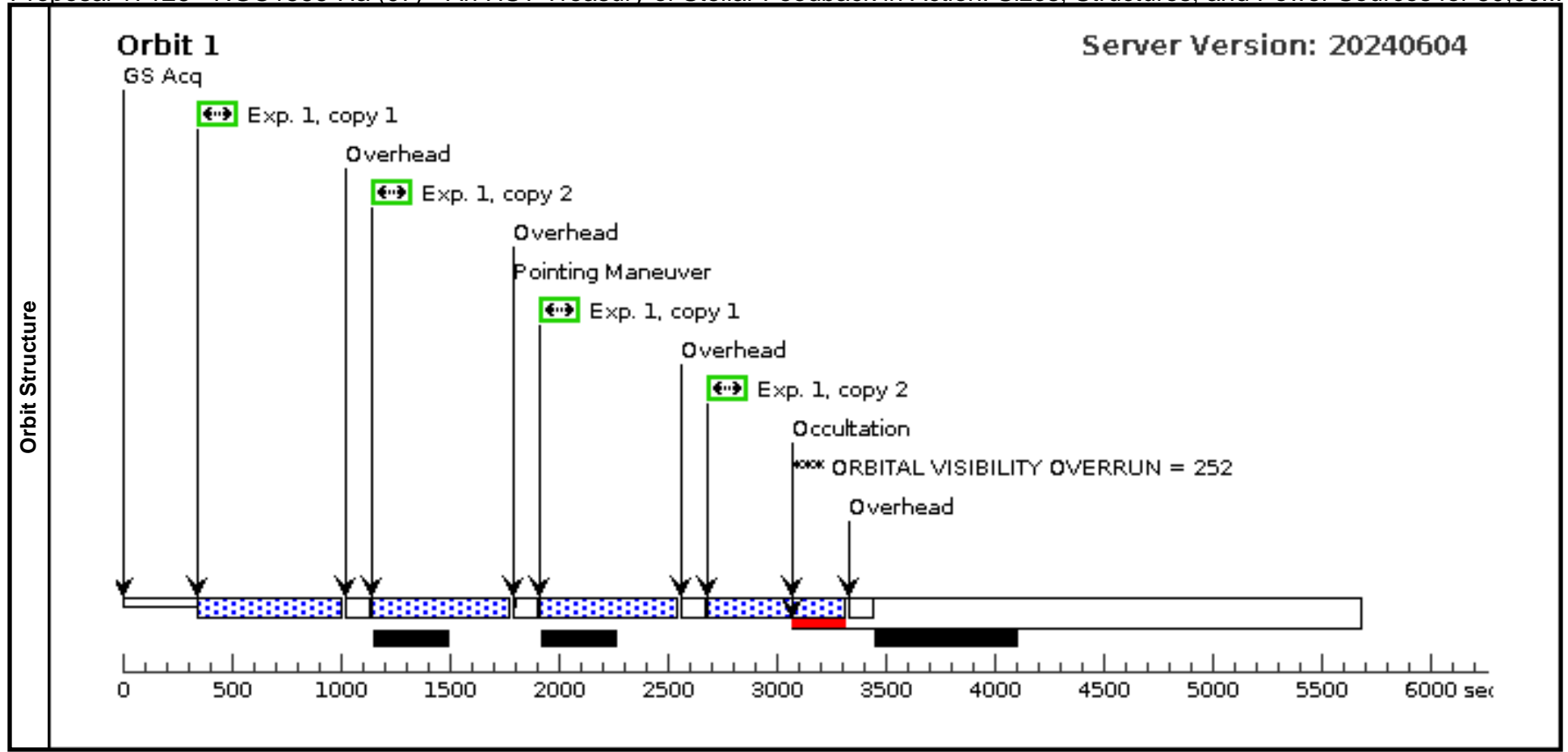
# Proposal 17126 - NGC1512-Ha (21) - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50,00...

Visit	Proposal 17126, NGC1512-Ha (21), completed										Tue Jun 18 19:00:32 GMT 2024		
	Diagnostic Status: Warning												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: ORIENT 91D TO 97 D												
Diagnostics	(NGC1512-Ha (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=MOSAIC    Pattern Orientation=85.759 Number Of Points=2    Angle Between Sides= Point Spacing=2.414    Center Pattern=true Line Spacing=										(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(20)	NGC-1512-2		RA: 04 03 55.4838 (60.9811825d) Dec: -43 20 44.97 (-43.34582d) Equinox: J2000				V=11.13		Reference Frame: Simbad			
	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		(20) NGC-1512-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F658N	FLASH=18		Pattern 1, Exps 1-1 i n NGC1512-Ha (21) (1)	610 Secs X 2 (2408 Secs)				
									[==>602.0 Secs (Pattern 1, Copy 1)] [==>602.0 Secs (Pattern 1, Copy 2)] [==>602.0 Secs (Pattern 2, Copy 1)] [==>602.0 Secs (Pattern 2, Copy 2)]	[1]			



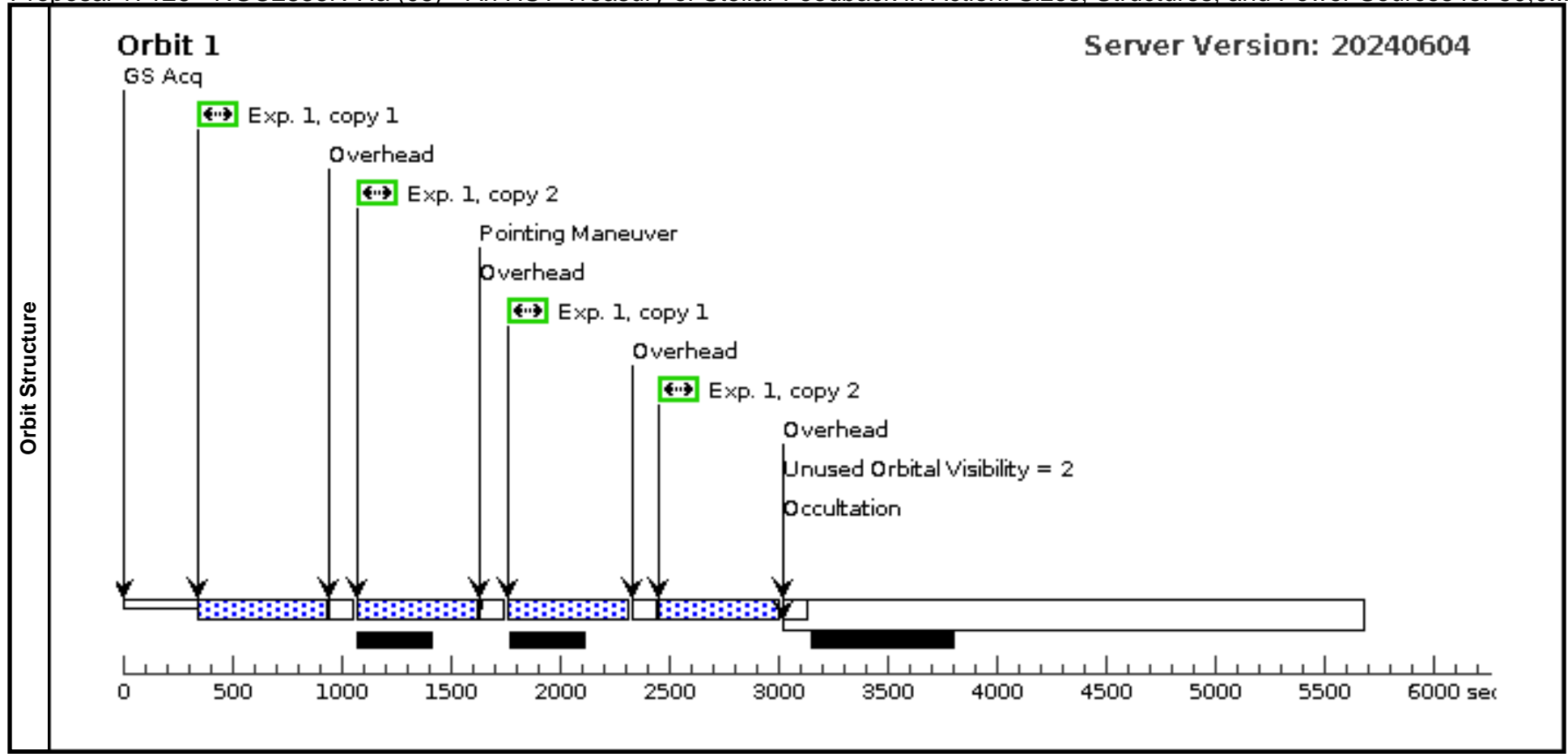
# Proposal 17126 - NGC1566-Ha (07) - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50,00...

Visit	Proposal 17126, NGC1566-Ha (07), completed										Tue Jun 18 19:00:32 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: ORIENT 268.9D TO 274.9 D											
Diagnostics	(NGC1566-Ha (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=MOSAIC                              Pattern Orientation=85.759 Number Of Points=2                              Angle Between Sides= Point Spacing=2.414                              Center Pattern=true Line Spacing=									(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(7)	NGC-1566	RA: 04 20 0.5300 (65.0022083d) Dec: -54 56 13.80 (-54.93717d) Equinox: J2000				V=10.33		Reference Frame: Simbad			
	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		(7) NGC-1566	WFC3/UVIS, ACCUM, UVIS-CENTER	F658N	FLASH=18		Pattern 1, Exps 1-1 i n NGC1566-Ha (07) (1)	634 Secs X 2 (2528 Secs) [==>632.0 Secs (Pattern 1, Copy 1)] [==>632.0 Secs (Pattern 1, Copy 2)] [==>632.0 Secs (Pattern 2, Copy 1)] [==>632.0 Secs (Pattern 2, Copy 2)]	[1]		



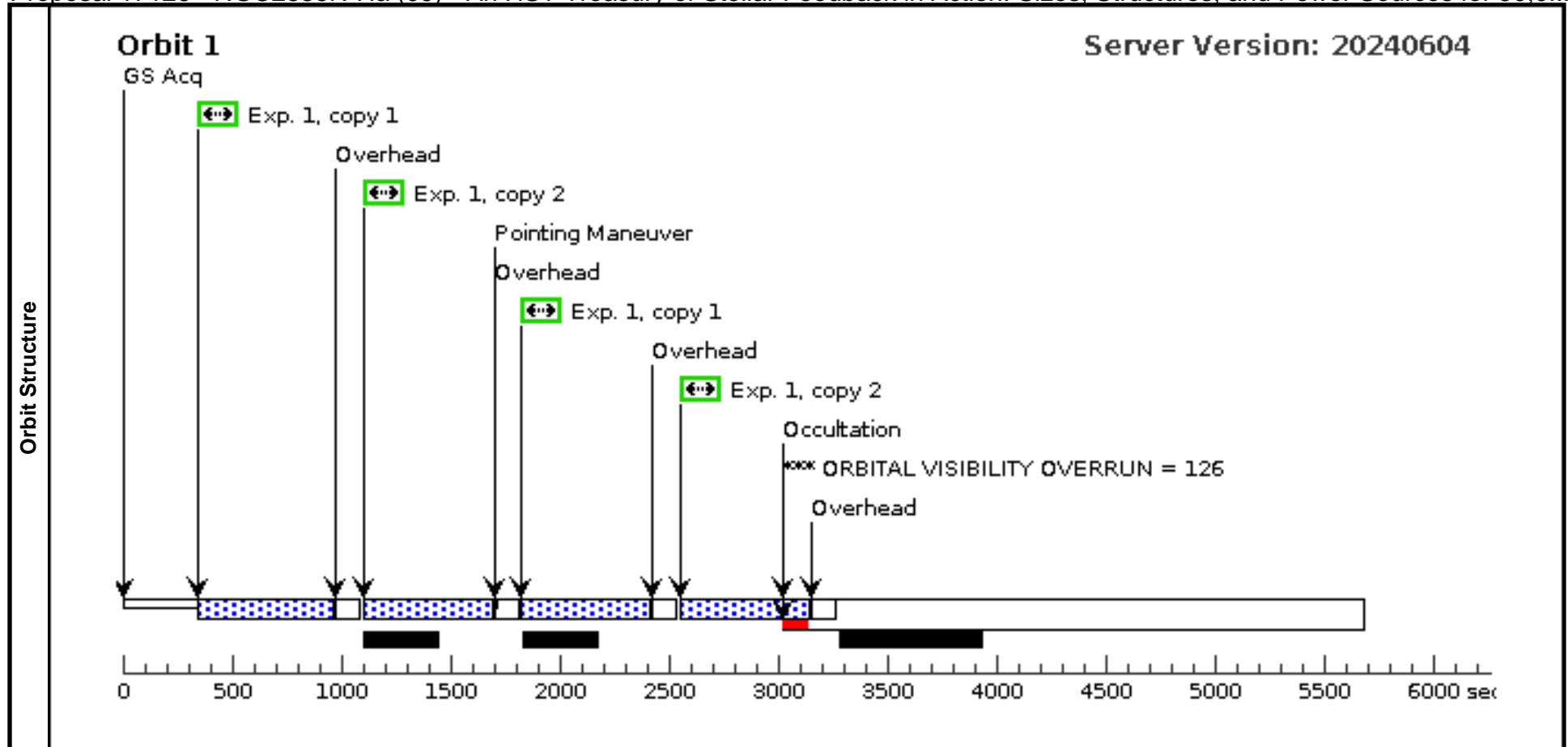
# Proposal 17126 - NGC2835N-Ha (08) - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50,0...

Visit	Proposal 17126, NGC2835N-Ha (08), implementation <span style="float: right;">Tue Jun 18 19:00:32 GMT 2024</span>				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 316.5D TO 322.5 D				
Patterns	#	Primary Pattern	Secondary Pattern		Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=MOSAIC                              Pattern Orientation=85.759 Number Of Points=2                              Angle Between Sides= Point Spacing=2.414                              Center Pattern=true Line Spacing=			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(8)	NGC-2835-N	RA: 09 17 53.1051 (139.4712713d) Dec: -22 21 18.25 (-22.35507d) Equinox: J2000		V=10.00
Exposures	Miscellaneous Reference Frame: SIMBAD  <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=GALAXY</i> <i>Description=[SPIRAL]</i>				
	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	(8)	NGC-2835-N	WFC3/UVIS, ACCUM, UVIS-CENTER	F658N
					FLASH=18
					Special Reqs.
					Groups
					Exp. Time (Total)/[Actual Dur.]
					Orbit
					Pattern 1, Exps 1-1 i n NGC2835N-Ha (0 8) (1)
					590 Secs X 2 (2224 Secs)
					[==>556.0 Secs (Pattern 1, Copy 1)]
					[==>556.0 Secs (Pattern 1, Copy 2)]
					[==>556.0 Secs (Pattern 2, Copy 1)]
					[==>556.0 Secs (Pattern 2, Copy 2)]
					[1]



Proposal 17126 - NGC2835N-Ha (09) - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50,0...

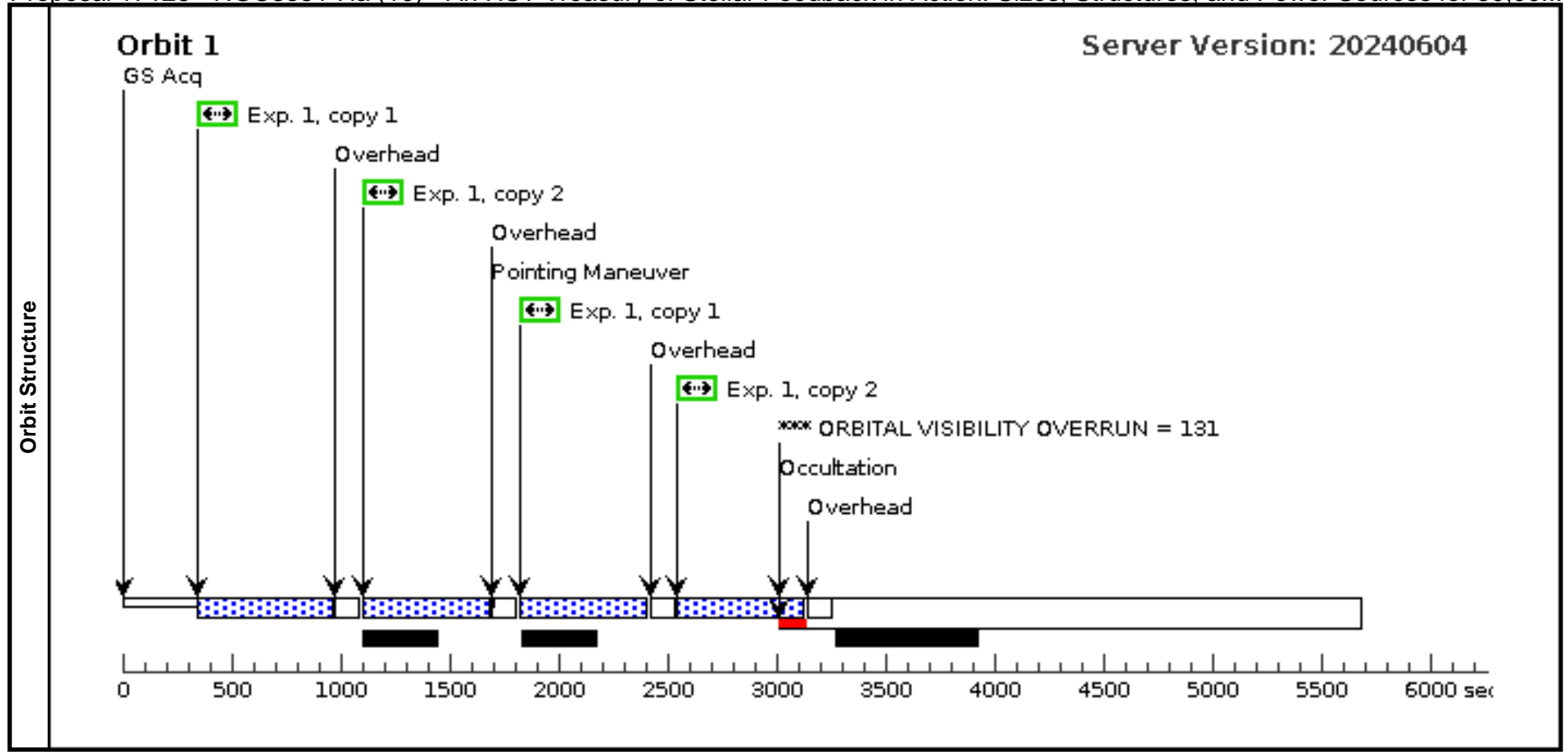
Visit	Proposal 17126, NGC2835N-Ha (09), completed					Tue Jun 18 19:00:32 GMT 2024				
	Diagnostic Status: Warning									
	Scientific Instruments: WFC3/UVIS									
	Special Requirements: ORIENT 316.5D TO 322.5 D									
Diagnostics	(NGC2835N-Ha (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Patterns	#	Primary Pattern			Secondary Pattern		Exposures			
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=MOSAIC    Pattern Orientation=85.759 Number Of Points=2    Angle Between Sides= Point Spacing=2.414    Center Pattern=true Line Spacing=					(1)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	NGC-2835-S	RA: 09 17 53.0400 (139.4710000d) Dec: -22 23 0.00 (-22.38333d) Equinox: J2000  Comments: Category=GALAXY Description=[SPIRAL]		V=10.00	Reference Frame: Simbad				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(9) NGC-2835-S	WFC3/UVIS, ACCUM, UVIS-CENTER	F658N	FLASH=18		Pattern 1, Exps 1-1 i n NGC2835N-Ha (0 9) (1)	590 Secs X 2 (2352 Secs) [==>588.0 Secs (Pattern 1, Copy 1)] [==>588.0 Secs (Pattern 1, Copy 2)] [==>588.0 Secs (Pattern 2, Copy 1)] [==>588.0 Secs (Pattern 2, Copy 2)]	[1]





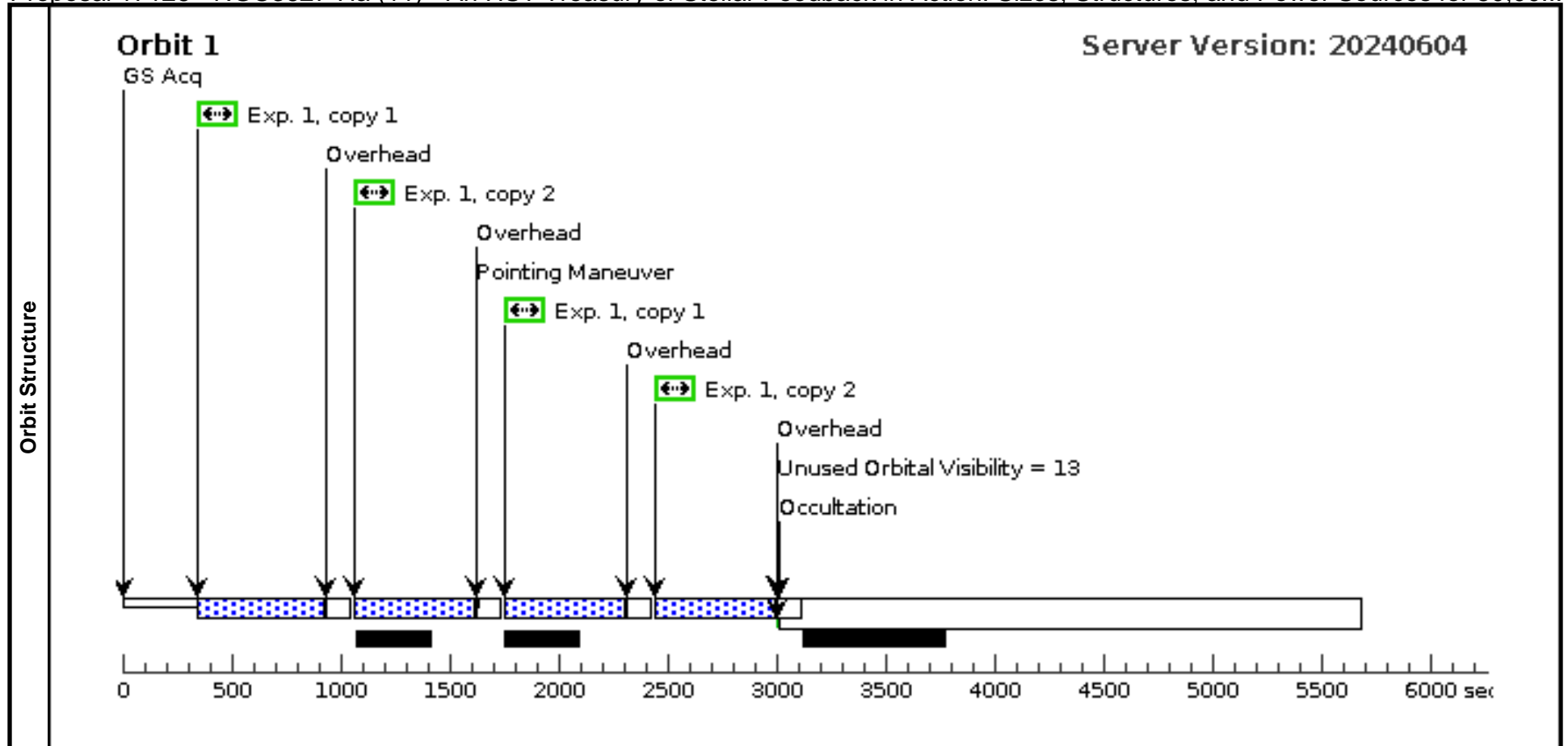
# Proposal 17126 - NGC3351-Ha (10) - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50,00...

Visit	Proposal 17126, NGC3351-Ha (10), completed										Tue Jun 18 19:00:32 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: WFC3/UVIS													
	Special Requirements: (none)													
Diagnostics	(NGC3351-Ha (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Patterns	#	Primary Pattern						Secondary Pattern				Exposures		
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=MOSAIC    Pattern Orientation=85.759 Number Of Points=2    Angle Between Sides= Point Spacing=2.414    Center Pattern=true Line Spacing=										(1)		
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Fluxes			Miscellaneous		
	(10)	NGC-3351	RA: 10 43 58.0000 (160.9916667d) Dec: +11 42 17.76 (11.70493d) Equinox: J2000						V=10.5			Reference Frame: Simbad		
	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		(10) NGC-3351	WFC3/UVIS, ACCUM, UVIS-CENTER	F658N	FLASH=18		Pattern 1, Exps 1-1 i n NGC3351-Ha (10) (1)	588 Secs X 2 (2344 Secs) [==>586.0 Secs (Pattern 1, Copy 1)] [==>586.0 Secs (Pattern 1, Copy 2)] [==>586.0 Secs (Pattern 2, Copy 1)] [==>586.0 Secs (Pattern 2, Copy 2)]			[1]		



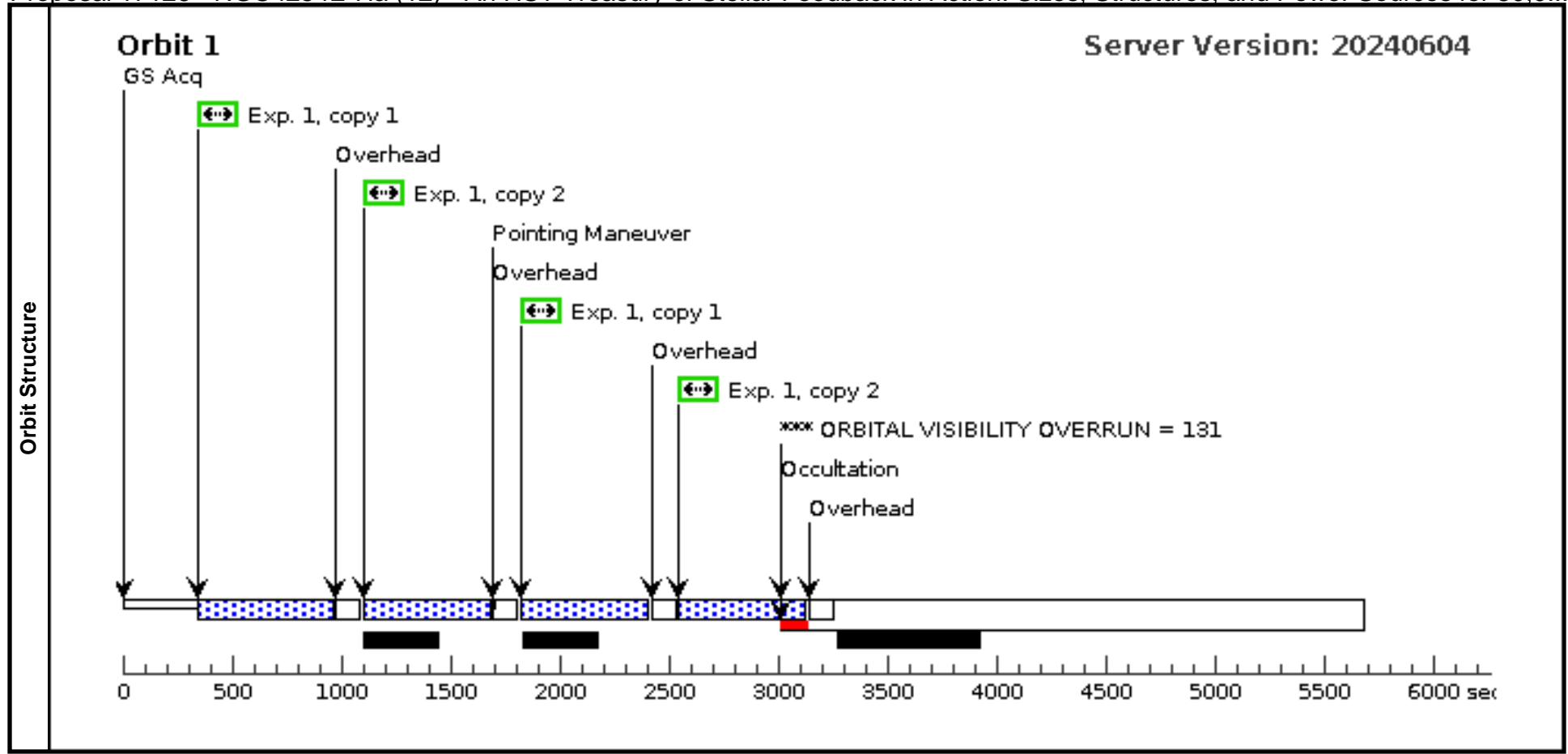
Proposal 17126 - NGC3627-Ha (11) - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50.00...

Visit	Proposal 17126, NGC3627-Ha (11), completed										Tue Jun 18 19:00:32 GMT 2024		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: (none)												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=MOSAIC                              Pattern Orientation=85.759 Number Of Points=2                              Angle Between Sides= Point Spacing=2.414                              Center Pattern=true Line Spacing=										(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous				
	(11)	NGC-3627	RA: 11 20 15.5200 (170.0646667d) Dec: +13 00 0.50 (13.00014d) Equinox: J2000				V=8.92		Reference Frame: SIMBAD				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.												
	Category=GALAXY												
Description=[SPIRAL]													
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1		(11) NGC-3627	WFC3/UVIS, ACCUM, UVIS-CENTER	F658N	FLASH=18		Pattern 1, Exps 1-1 i n NGC3627-Ha (11) (1)	550 Secs X 2 (2200 Secs)				
									[==>(Pattern 1, Copy 1)]		[1]		
									[==>(Pattern 1, Copy 2)]				
									[==>(Pattern 2, Copy 1)]				
								[==>(Pattern 2, Copy 2)]					



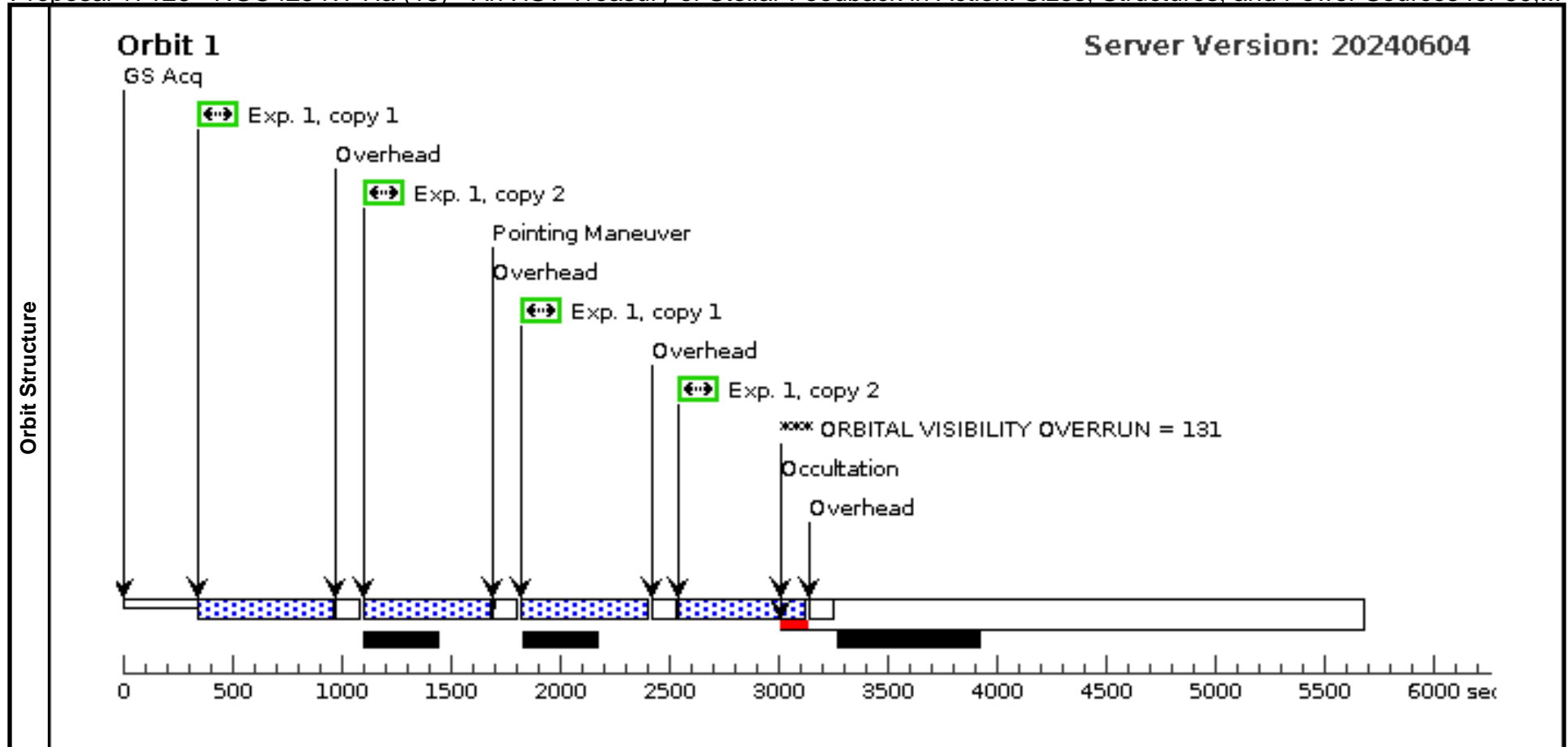
# Proposal 17126 - NGC4254E-Ha (12) - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50,0...

Visit	Proposal 17126, NGC4254E-Ha (12), completed										Tue Jun 18 19:00:32 GMT 2024		
	Diagnostic Status: Warning												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: ORIENT 160D TO 240 D; ORIENT 340D TO 60 D												
Diagnostics	(NGC4254E-Ha (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=MOSAIC                              Pattern Orientation=85.759 Number Of Points=2                              Angle Between Sides= Point Spacing=2.414                              Center Pattern=true Line Spacing=										(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(12)	NGC-4254-E		RA: 12 18 56.2297 (184.7342904d) Dec: +14 26 3.68 (14.43436d) Equinox: J2000				V=9.87		Reference Frame: SIMBAD			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.												
	Category=GALAXY Description=[SPIRAL]												
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1		(12) NGC-4254-E	WFC3/UVIS, ACCUM, UVIS-CENTER	F657N	FLASH=17		Pattern 1, Exps 1-1 i n NGC4254E-Ha (12) ) (1)	588 Secs X 2 (2344 Secs)				
										[==>586.0 Secs (Pattern 1, Copy 1)] [==>586.0 Secs (Pattern 1, Copy 2)] [==>586.0 Secs (Pattern 2, Copy 1)] [==>586.0 Secs (Pattern 2, Copy 2)]		[1]	



# Proposal 17126 - NGC4254W-Ha (13) - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50,...

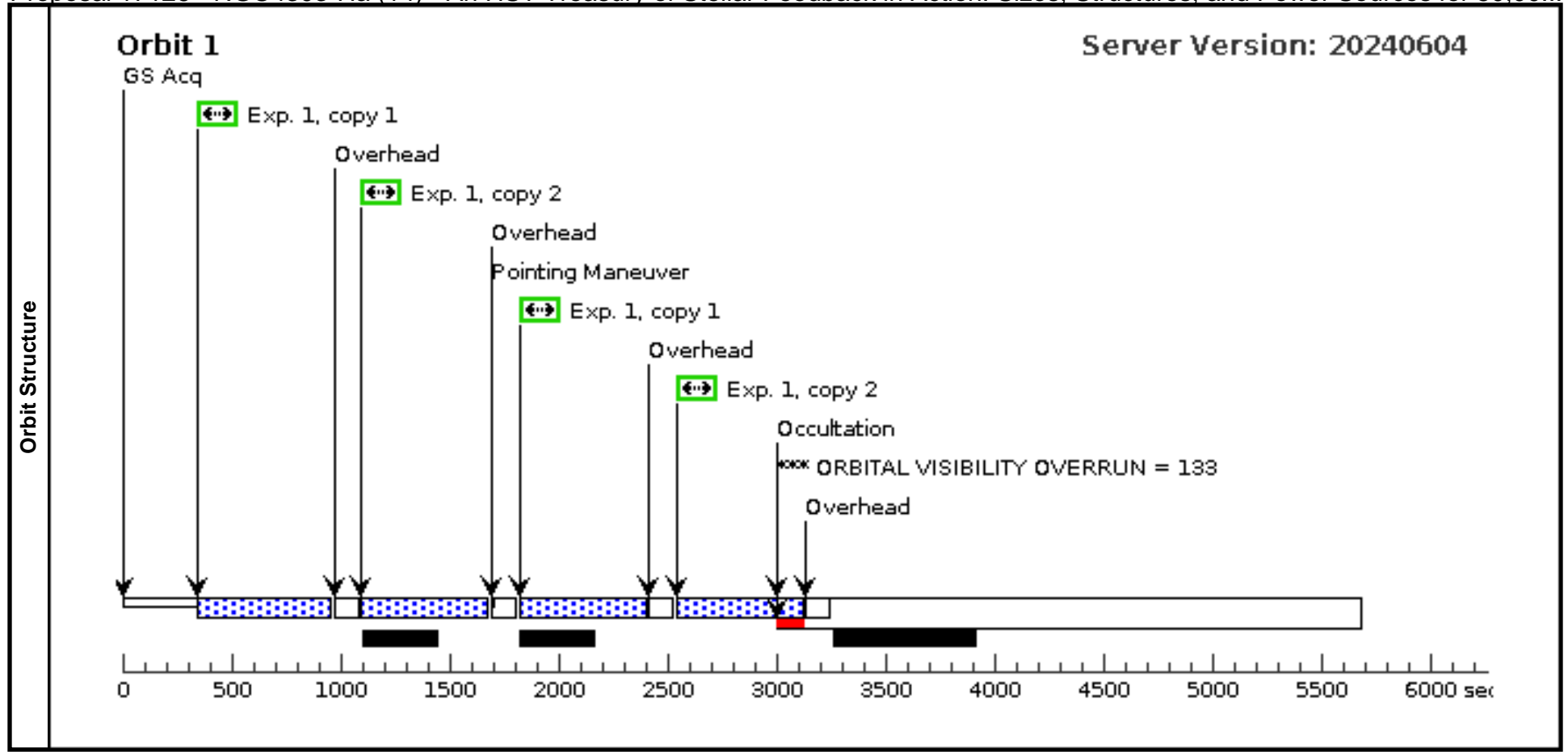
Visit	Proposal 17126, NGC4254W-Ha (13), completed										Tue Jun 18 19:00:32 GMT 2024		
	Diagnostic Status: Warning												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: (none)												
Diagnostics	(NGC4254W-Ha (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=MOSAIC                              Pattern Orientation=85.759 Number Of Points=2                              Angle Between Sides= Point Spacing=2.414                              Center Pattern=true Line Spacing=										(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(13)	NGC-4254-W		RA: 12 18 46.9283 (184.6955346d) Dec: +14 24 38.09 (14.41058d) Equinox: J2000				V=9.87		Reference Frame: SIMBAD			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.												
	Category=GALAXY Description=[SPIRAL]												
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1		(13) NGC-4254-W	WFC3/UVIS, ACCUM, UVIS-CENTER	F657N	FLASH=17		Pattern 1, Exps 1-1 i n NGC4254W-Ha (1 3) (1)	588 Secs X 2 (2344 Secs) [==>586.0 Secs (Pattern 1, Copy 1)] [==>586.0 Secs (Pattern 1, Copy 2)] [==>586.0 Secs (Pattern 2, Copy 1)] [==>586.0 Secs (Pattern 2, Copy 2)]		[1]		





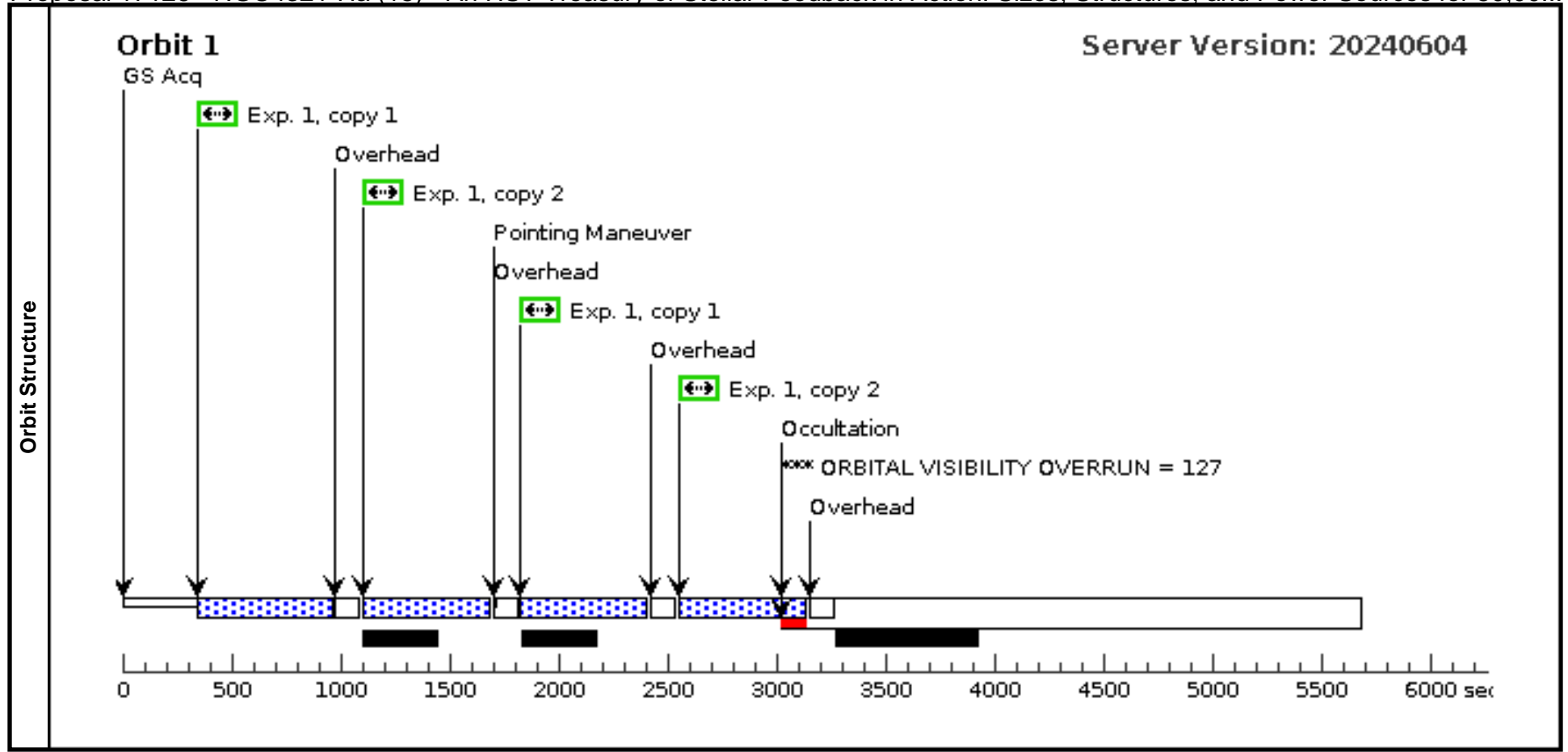
# Proposal 17126 - NGC4303-Ha (14) - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50.00...

Visit	Proposal 17126, NGC4303-Ha (14), completed										Tue Jun 18 19:00:32 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: ORIENT 157D TO 163 D											
Diagnostics	(NGC4303-Ha (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=MOSAIC                              Pattern Orientation=85.759 Number Of Points=2                              Angle Between Sides= Point Spacing=2.414                              Center Pattern=true Line Spacing=									(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(14)	NGC-4303		RA: 12 21 55.3660 (185.4806917d) Dec: +04 28 28.60 (4.47461d) Equinox: J2000				V=9.65		Reference Frame: SIMBAD		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	Category=GALAXY											
Description=[SPIRAL]												
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(14) NGC-4303	WFC3/UVIS, ACCUM, UVIS-CENTER		F658N	FLASH=18		Pattern 1, Exps 1-1 i n NGC4303-Ha (14) (1)	586 Secs X 2 (2336 Secs) [==>584.0 Secs (Pattern 1, Copy 1)] [==>584.0 Secs (Pattern 1, Copy 2)] [==>584.0 Secs (Pattern 2, Copy 1)] [==>584.0 Secs (Pattern 2, Copy 2)]	[1]	



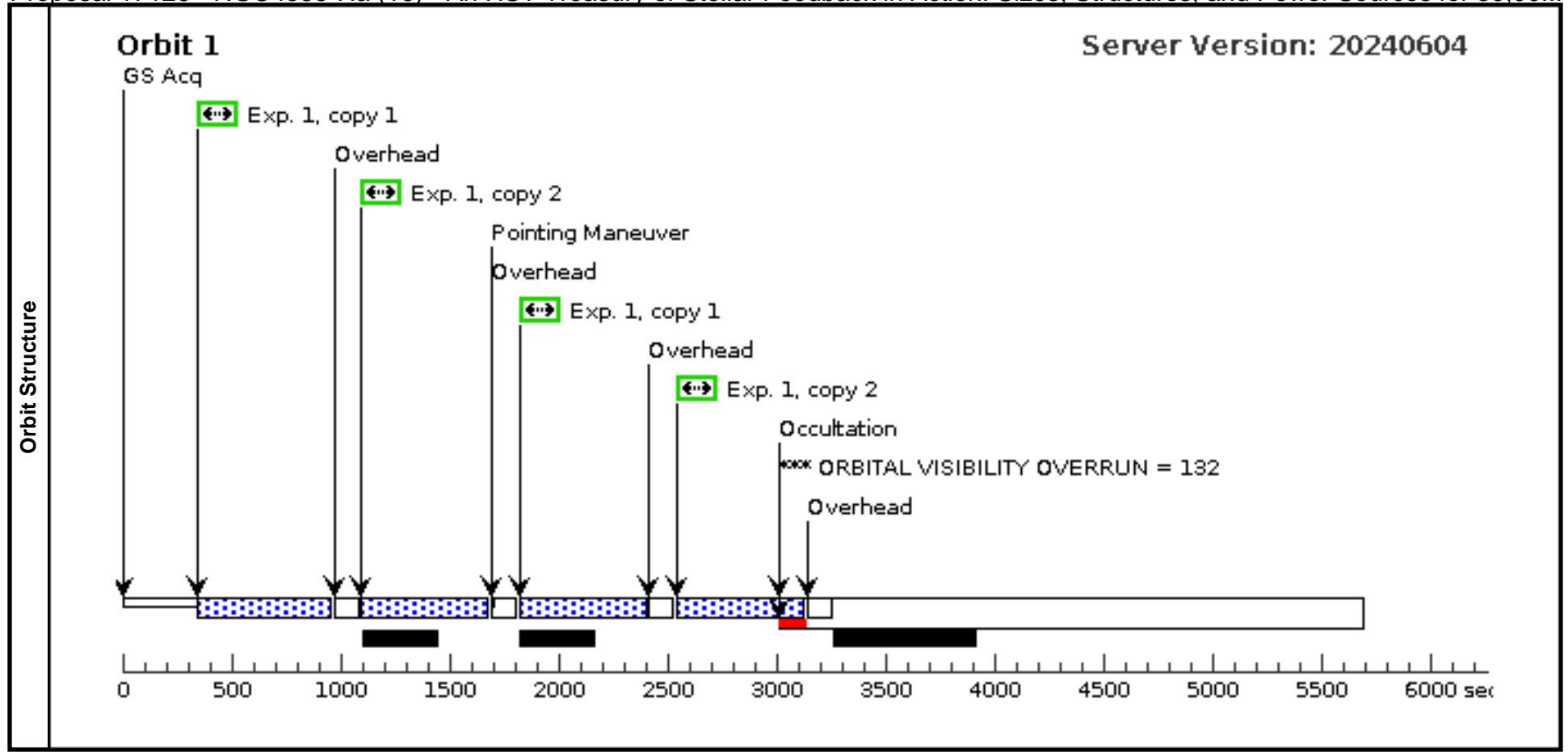
# Proposal 17126 - NGC4321-Ha (15) - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50.00...

Visit	Proposal 17126, NGC4321-Ha (15), completed										Tue Jun 18 19:00:32 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: WFC3/UVIS													
	Special Requirements: (none)													
Diagnostics	(NGC4321-Ha (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Patterns	#	Primary Pattern						Secondary Pattern				Exposures		
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=MOSAIC    Pattern Orientation=85.759 Number Of Points=2    Angle Between Sides= Point Spacing=2.414    Center Pattern=true Line Spacing=										(1)		
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous				
	(15)	NGC-4321		RA: 12 22 54.5923 (185.7274679d) Dec: +15 49 18.22 (15.82173d) Equinox: J2000				V=9.35		Reference Frame: SIMBAD				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.													
	Category=GALAXY Description=[SPIRAL]													
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1		(15) NGC-4321	WFC3/UVIS, ACCUM, UVIS-CENTER		F657N	FLASH=17		Pattern 1, Exps 1-1 i n NGC4321-Ha (15) (1)	590 Secs X 2 (2348 Secs) [==>587.0 Secs (Pattern 1, Copy 1)] [==>587.0 Secs (Pattern 1, Copy 2)] [==>587.0 Secs (Pattern 2, Copy 1)] [==>587.0 Secs (Pattern 2, Copy 2)]		[1]		



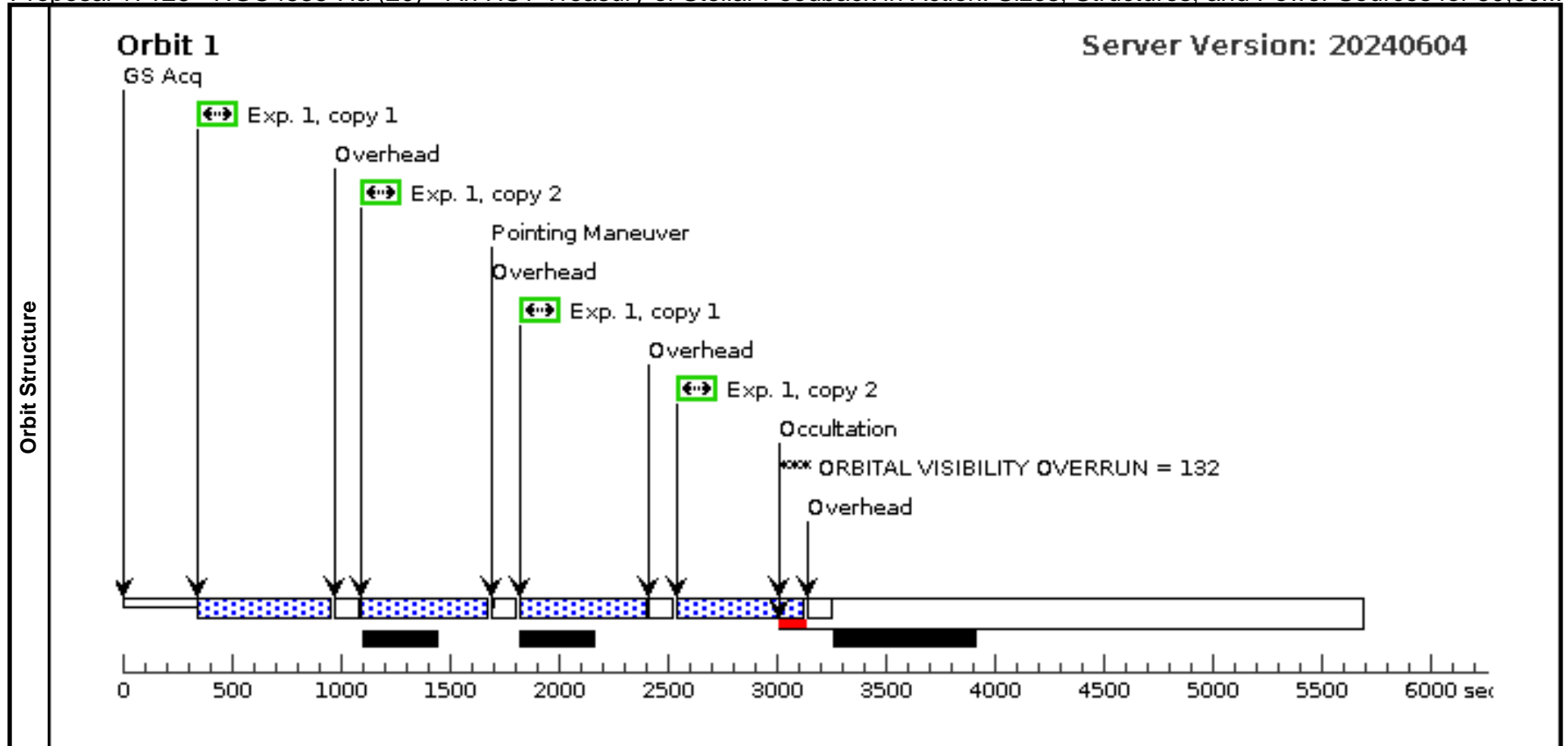
# Proposal 17126 - NGC4535-Ha (16) - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50.00...

Visit	Proposal 17126, NGC4535-Ha (16), failed										Tue Jun 18 19:00:32 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: ORIENT 280D TO 320 D											
Diagnostics	(NGC4535-Ha (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=MOSAIC                              Pattern Orientation=85.759 Number Of Points=2                              Angle Between Sides= Point Spacing=2.414                              Center Pattern=true Line Spacing=									(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(16)	NGC-4535	RA: 12 34 20.3800 (188.5849167d) Dec: +08 11 52.00 (8.19778d) Equinox: J2000				V=10.00		Reference Frame: SIMBAD			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	Category=GALAXY Description=[SPIRAL]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(16) NGC-4535	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=17		Pattern 1, Exps 1-1 i n NGC4535-Ha (16) (1)	587 Secs X 2 (2340 Secs) [==>585.0 Secs (Pattern 1, Copy 1)] [==>585.0 Secs (Pattern 1, Copy 2)] [==>585.0 Secs (Pattern 2, Copy 1)] [==>585.0 Secs (Pattern 2, Copy 2)]	[1]		



# Proposal 17126 - NGC4535-Ha (20) - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50.00...

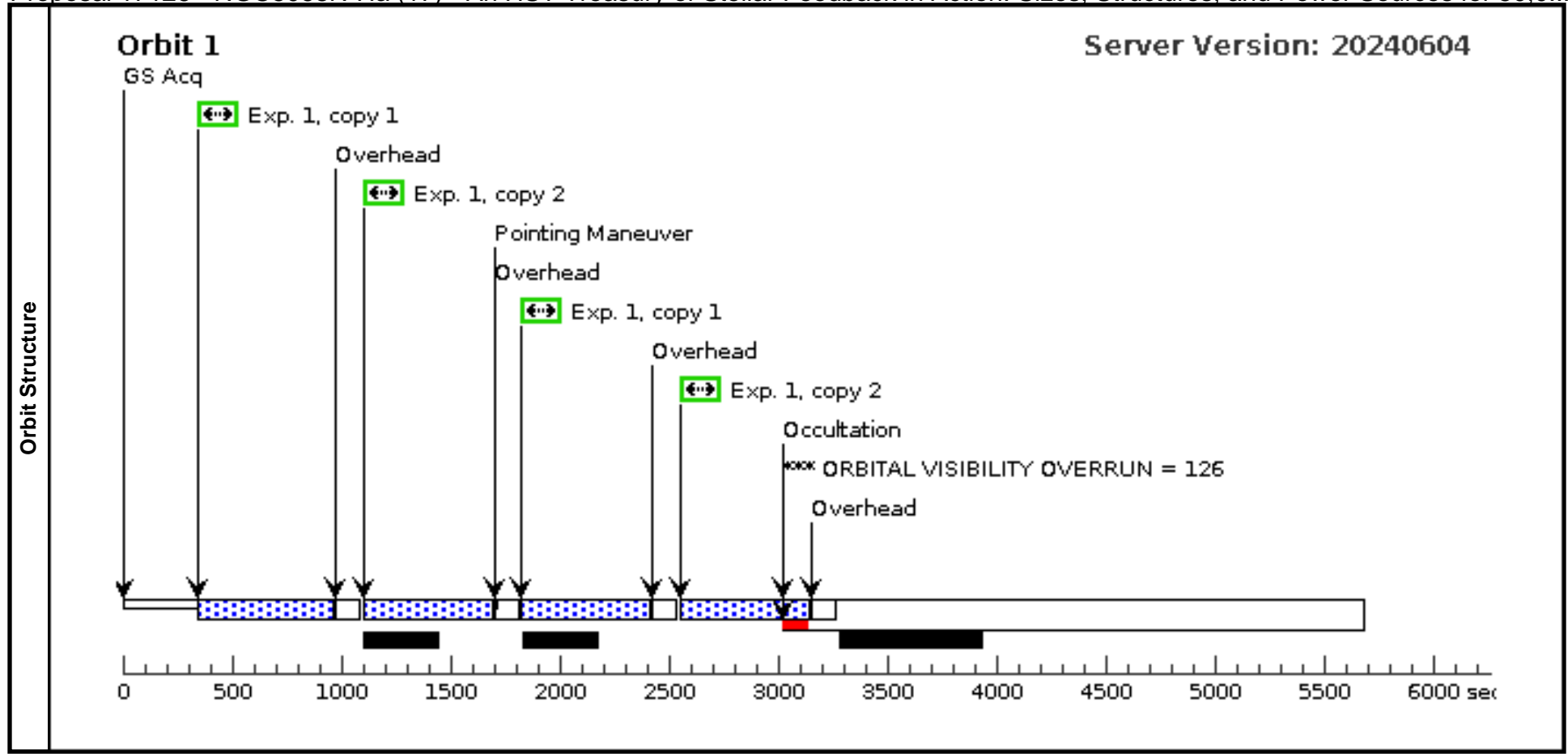
Visit	Proposal 17126, NGC4535-Ha (20), completed										Tue Jun 18 19:00:32 GMT 2024		
	Diagnostic Status: Warning												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: ORIENT 280D TO 320 D												
Diagnostics	(NGC4535-Ha (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN												
Patterns	#	Primary Pattern					Secondary Pattern				Exposures		
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=MOSAIC                              Pattern Orientation=85.759 Number Of Points=2                              Angle Between Sides= Point Spacing=2.414                              Center Pattern=true Line Spacing=									(1)		
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(16)	NGC-4535		RA: 12 34 20.3800 (188.5849167d) Dec: +08 11 52.00 (8.19778d) Equinox: J2000				V=10.00		Reference Frame: SIMBAD			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.												
	Category=GALAXY												
Description=[SPIRAL]													
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(16) NGC-4535	WFC3/UVIS, ACCUM, UVIS-FIX		F657N	FLASH=17		Pattern 1, Exps 1-1 i n NGC4535-Ha (20) (1)	587 Secs X 2 (2340 Secs) [==>585.0 Secs (Pattern 1, Copy 1)] [==>585.0 Secs (Pattern 1, Copy 2)] [==>585.0 Secs (Pattern 2, Copy 1)] [==>585.0 Secs (Pattern 2, Copy 2)]		[1]	





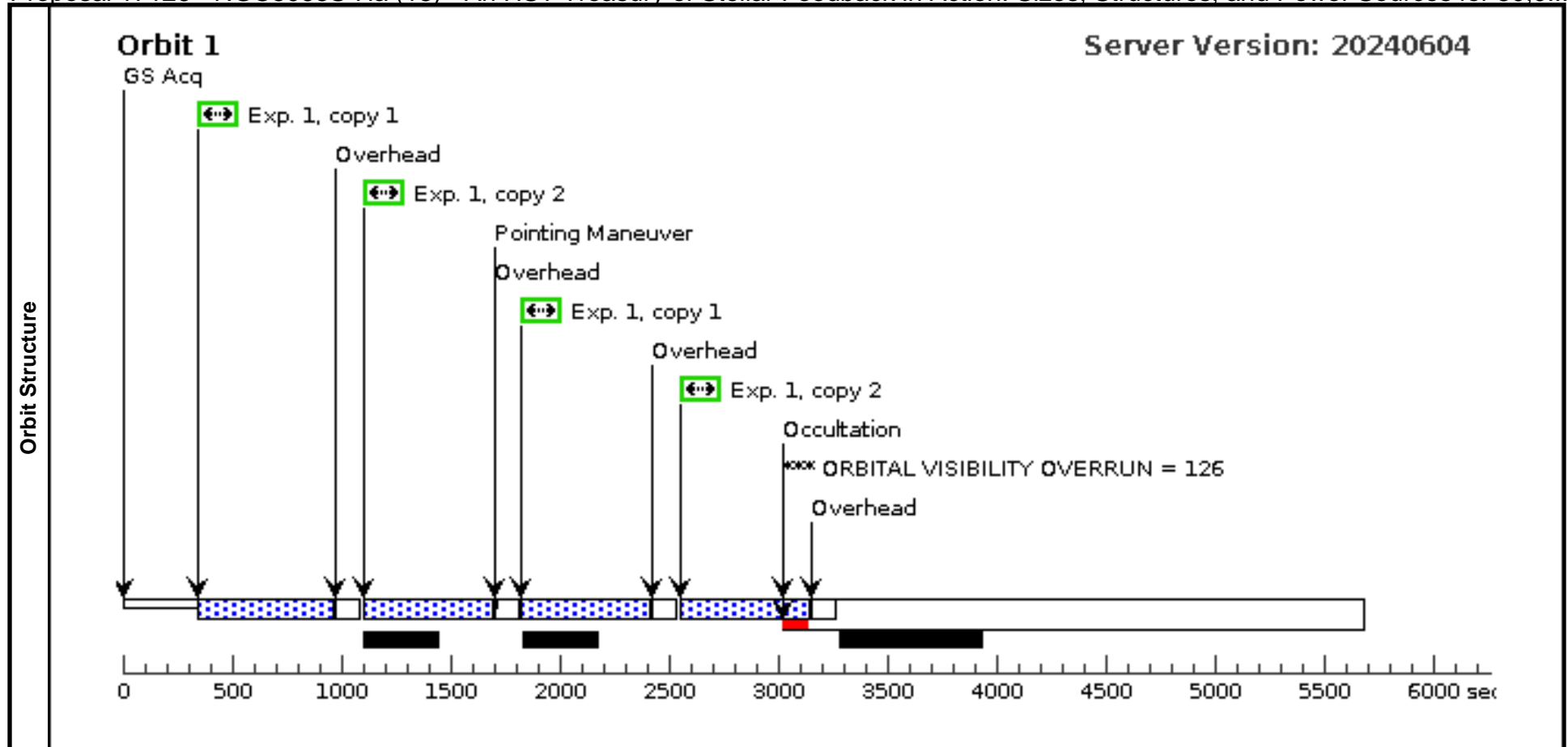
# Proposal 17126 - NGC5068N-Ha (17) - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50,0...

Visit	Proposal 17126, NGC5068N-Ha (17), completed										Tue Jun 18 19:00:32 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: WFC3/UVIS													
	Special Requirements: ORIENT 46D TO 52 D													
Diagnostics	(NGC5068N-Ha (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Patterns	#	Primary Pattern						Secondary Pattern				Exposures		
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=MOSAIC    Pattern Orientation=85.759 Number Of Points=2    Angle Between Sides= Point Spacing=2.414    Center Pattern=true Line Spacing=										(1)		
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous				
	(17)	NGC-5068-N		RA: 13 18 49.6059 (199.7066913d) Dec: -21 01 24.85 (-21.02357d) Equinox: J2000				V=10.01		Reference Frame: SIMBAD				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.													
	Category=GALAXY Description=[SPIRAL]													
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1		(17) NGC-5068-N	WFC3/UVIS, ACCUM, UVIS-CENTER		F658N	FLASH=18		Pattern 1, Exps 1-1 i n NGC5068N-Ha (1 7) (1)	590 Secs X 2 (2352 Secs) [==>588.0 Secs (Pattern 1, Copy 1)] [==>588.0 Secs (Pattern 1, Copy 2)] [==>588.0 Secs (Pattern 2, Copy 1)] [==>588.0 Secs (Pattern 2, Copy 2)]		[1]		



# Proposal 17126 - NGC5068S-Ha (18) - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50,0...

Visit	Proposal 17126, NGC5068S-Ha (18), completed										Tue Jun 18 19:00:32 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: ORIENT 46D TO 52 D											
Diagnostics	(NGC5068S-Ha (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=MOSAIC                              Pattern Orientation=85.759 Number Of Points=2                              Angle Between Sides= Point Spacing=2.414                              Center Pattern=true Line Spacing=									(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(18)	NGC-5068-S		RA: 13 18 54.0043 (199.7250179d) Dec: -21 03 10.49 (-21.05291d) Equinox: J2000				V=10.01		Reference Frame: Simbad		
	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		(18) NGC-5068-S	WFC3/UVIS, ACCUM, UVIS-CENTER		F658N	FLASH=18		Pattern 1, Exps 1-1 i n NGC5068S-Ha (18) ) (1)	590 Secs X 2 (2352 Secs) [==>588.0 Secs (Pattern 1, Copy 1)] [==>588.0 Secs (Pattern 1, Copy 2)] [==>588.0 Secs (Pattern 2, Copy 1)] [==>588.0 Secs (Pattern 2, Copy 2)]		[1]



# Proposal 17126 - NGC7496-Ha (19) - An HST Treasury of Stellar Feedback in Action: Sizes, Structures, and Power Sources for 50,00...

Visit	Proposal 17126, NGC7496-Ha (19), completed										Tue Jun 18 19:00:32 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: ORIENT 332D TO 338 D											
Diagnostics	(NGC7496-Ha (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=MOSAIC                              Pattern Orientation=85.759 Number Of Points=2                              Angle Between Sides= Point Spacing=2.414                              Center Pattern=true Line Spacing=									(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(19)	NGC-7496	RA: 23 09 47.3858 (347.4474408d) Dec: -43 25 30.19 (-43.42505d) Equinox: J2000				V=13.9		Reference Frame: SIMBAD			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	Category=GALAXY Description=[SPIRAL]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(19) NGC-7496	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=17		Pattern 1, Exps 1-1 i n NGC7496-Ha (19) (1)	610 Secs X 2 (2432 Secs) [==>608.0 Secs (Pattern 1, Copy 1)] [==>608.0 Secs (Pattern 1, Copy 2)] [==>608.0 Secs (Pattern 2, Copy 1)] [==>608.0 Secs (Pattern 2, Copy 2)]	[1]		

