



17930 - A Complete Sample of Ionization Echoes Around Fading AGN

Cycle: 32, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Moire Prescott (PI) (Contact)	New Mexico State University
Dr. William Clifford Keel (CoI)	University of Alabama
Kelly Sanderson (CoI)	New Mexico State University
Audrey Frances Dijeu (CoI)	New Mexico State University

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) GB0020-0531	ACS/WFC	2	09-Jan-2026 14:00:41.0	yes
02	(2) GB0024+3258	ACS/WFC	2	09-Jan-2026 14:00:42.0	yes
03	(3) GB0111+2253	ACS/WFC	2	09-Jan-2026 14:00:42.0	yes
04	(4) GB0159+2703	ACS/WFC	2	09-Jan-2026 14:00:43.0	yes
12	(4) GB0159+2703	ACS/WFC	1	09-Jan-2026 14:00:43.0	yes
05	(5) GB1351+0816	ACS/WFC	2	09-Jan-2026 14:00:44.0	yes
06	(6) GB1441+2517	ACS/WFC	2	09-Jan-2026 14:00:44.0	yes
07	(7) GB1504+3439	ACS/WFC	2	09-Jan-2026 14:00:45.0	yes
08	(8) GB2050+0550	ACS/WFC	2	09-Jan-2026 14:00:45.0	yes
09	(9) GB2135-0314	ACS/WFC	2	09-Jan-2026 14:00:45.0	yes
10	(10) GB2202+2309	ACS/WFC	2	09-Jan-2026 14:00:46.0	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>
11	(11) GB2308+3303	ACS/WFC	2	09-Jan-2026 14:00:46.0	yes

23 Total Orbits Used

ABSTRACT

Understanding how and why Active Galactic Nuclei (AGN) vary in ionizing output can provide insight into the physics of AGN accretion and fueling. "Green Bean" nebulae at $z \sim 0.3$, discovered using a uniform color selection, were found to host powerful AGN that have ramped down in ionizing output by 3-4 orders of magnitude over the past 10,000-100,000 years; this significant variability should be imprinted as an ionization echo within the surrounding extended emission line gas. Leveraging a successful recombination balance approach demonstrated previously for a sample of lower redshift Seyfert-class systems, an approved Cycle 32 program is targeting a limited subset of 6 Green Beans. In this proposal, we propose to obtain the crucial HST ACS ramp filter Halpha imaging for the remaining 11 Green Bean nebulae in order to constrain the ionization histories of luminous AGN at high spatial, and therefore time, resolution across the complete sample. This proposal is eligible for the Cycle 32 Bridge call because the ACS ramp filters are the only option for obtaining high resolution narrowband Halpha imaging at these redshifts.

OBSERVING DESCRIPTION

We propose to obtain HST ACS ramp filter imaging of redshifted Halpha for 11 "Green Bean" nebulae at $z \sim 0.3$ in order to map out the ionization histories of these luminous Active Galactic Nuclei (AGN) at high spatial, and therefore time, resolution.

~~ACS Ramp Filter Imaging~~

Filters --

Our targets are at $z \sim 0.192-0.334$. We will use ramp filter FR853N in ten cases and FR782N in one case, with central wavelengths set to match redshifted Halpha for each target, i.e., central wavelengths of 7823-8755Å.

Aperture --

For FR853N, we will use the default WFC1-IRAMP aperture.

For FR782N, we will use the default WFC2-ORAMP aperture.

Dither Pattern --

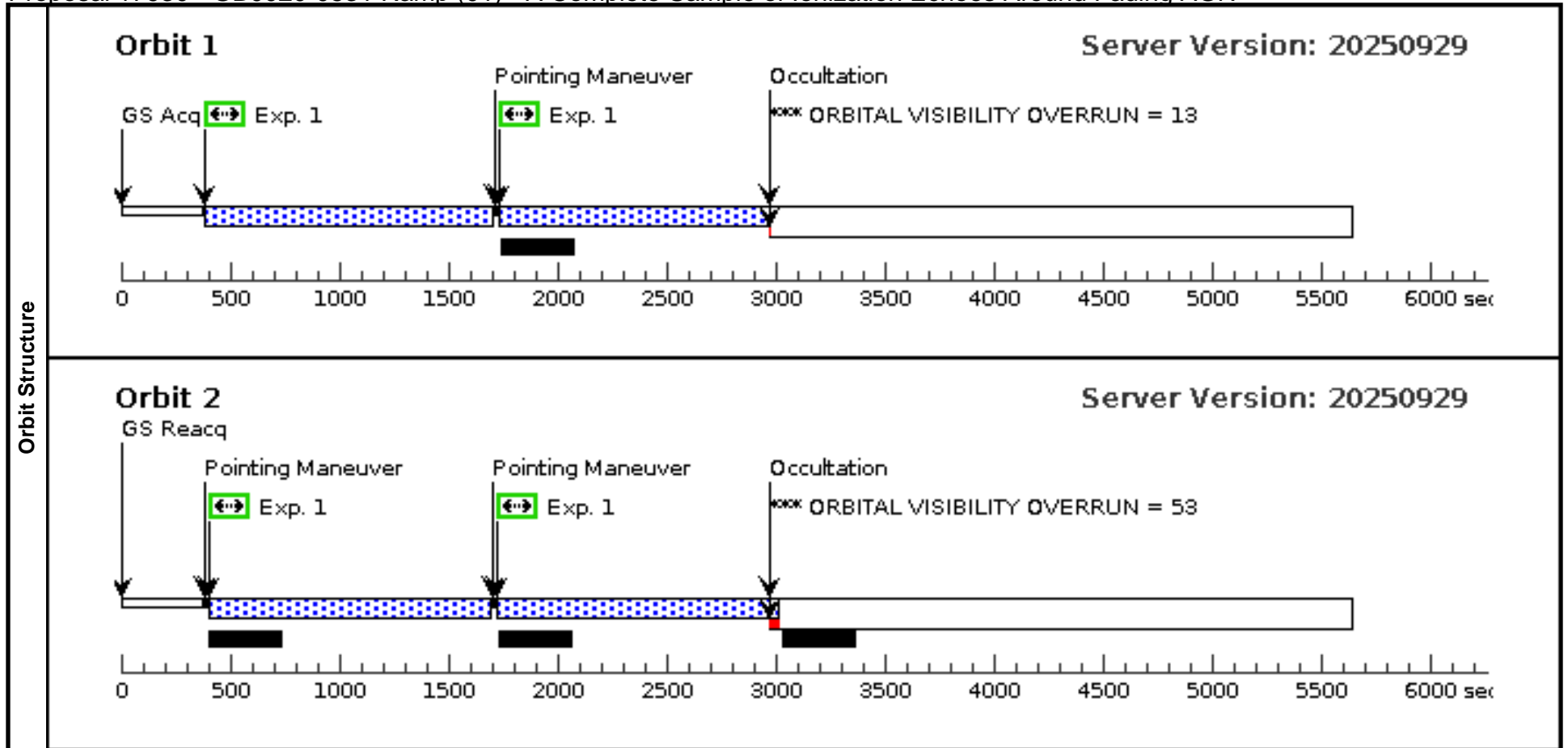
Proposal 17930 (STScI Edit Number: 3, Created: Friday, January 9, 2026, 2:00:47PM Eastern Standard Time) - Overview

We do not need to dither over the chip gap. To minimize CTE issues, we will prioritize longer exposure times and use the default 4-point ACS-WFC-DITHER-BOX dither pattern. This will allow us to improve the sampling of the point spread function and help address image artifacts and cosmic rays.

Exposure times -- Exposure times are auto-adjusted to maximize on-target exposure during each orbit.

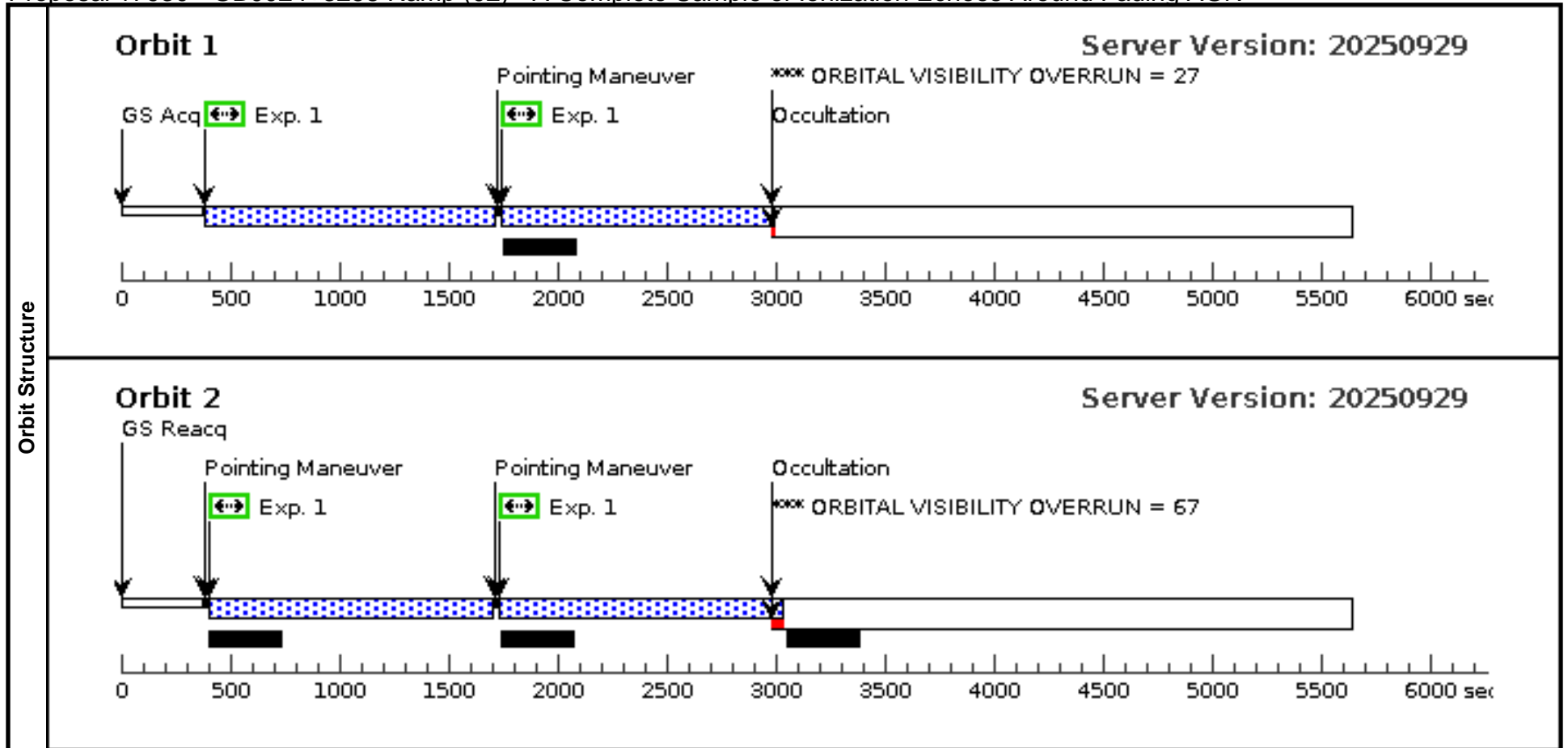
Proposal 17930 - GB0020-0531 Ramp (01) - A Complete Sample of Ionization Echoes Around Fading AGN

Visit	Proposal 17930, GB0020-0531 Ramp (01), completed Fri Jan 09 19:00:47 GMT 2026 Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none)									
	Diagnostics	(GB0020-0531 Ramp (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (GB0020-0531 Ramp (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Pattern 1, Exps 1-1 in GB0020-0531 Ramp (01))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.								
Patterns		#	Primary Pattern	Secondary Pattern		Exposures				
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.2637 Line Spacing=0.1856	Coordinate Frame=POS-TARG Pattern Orientation=20.7 Angle Between Sides=69.02 Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	GB0020-0531	RA: 00 20 16.4400 (5.0685000d) Dec: -05 31 26.60 (-5.52406d) Equinox: J2000		V=(?) SDSSr=18.3	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[EMISSION LINE NEBULA, SEYFERT] Extended=YES									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) GB0020-0531		ACS/WFC, ACCUM, WFC1-IRAMP	FR853N 8755 A			Pattern 1, Exps 1-1 in GB0020-0531 Ramp (01) (1)	1100 Secs (4566 Secs)	
									[==>1116.0 Secs (Pattern 1)]	[1]
									[==>1116.0 Secs (Pattern 2)]	
								[==>1167.0 Secs (Pattern 3)]		
								[==>1167.0 Secs (Pattern 4)]	[2]	



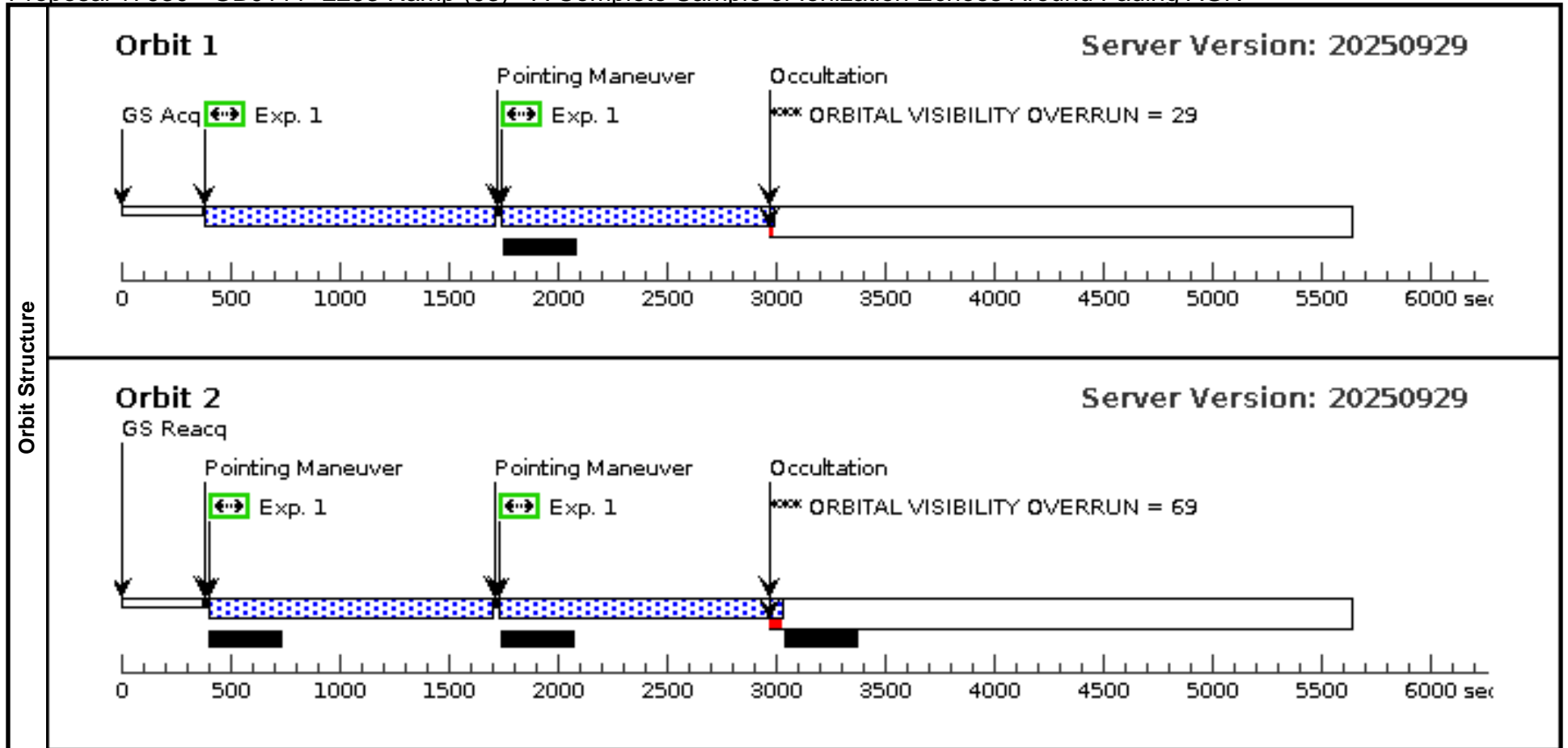
Proposal 17930 - GB0024+3258 Ramp (02) - A Complete Sample of Ionization Echoes Around Fading AGN

Visit	Proposal 17930, GB0024+3258 Ramp (02), completed Fri Jan 09 19:00:47 GMT 2026 Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none)									
	Diagnostics	(GB0024+3258 Ramp (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (GB0024+3258 Ramp (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Pattern 1, Exps 1-1 in GB0024+3258 Ramp (02))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.								
Patterns		#	Primary Pattern		Secondary Pattern		Exposures			
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.2637 Line Spacing=0.1856	Coordinate Frame=POS-TARG Pattern Orientation=20.7 Angle Between Sides=69.02 Center Pattern=false			(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	GB0024+3258	RA: 00 24 34.9000 (6.1454167d) Dec: +32 58 42.70 (32.97853d) Equinox: J2000		V=(?) SDSSr=18.2	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[EMISSION LINE NEBULA, SEYFERT] Extended=YES									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) GB0024+3258		ACS/WFC, ACCUM, WFC1-IRAMP	FR853N 8486 A			Pattern 1, Exps 1-1 in GB0024+3258 Ramp (02) (1)	1100 Secs (4614 Secs)	
									[==>1128.0 Secs (Pattern 1)]	[1]
									[==>1128.0 Secs (Pattern 2)]	
								[==>1179.0 Secs (Pattern 3)]		
								[==>1179.0 Secs (Pattern 4)]	[2]	



Proposal 17930 - GB0111+2253 Ramp (03) - A Complete Sample of Ionization Echoes Around Fading AGN

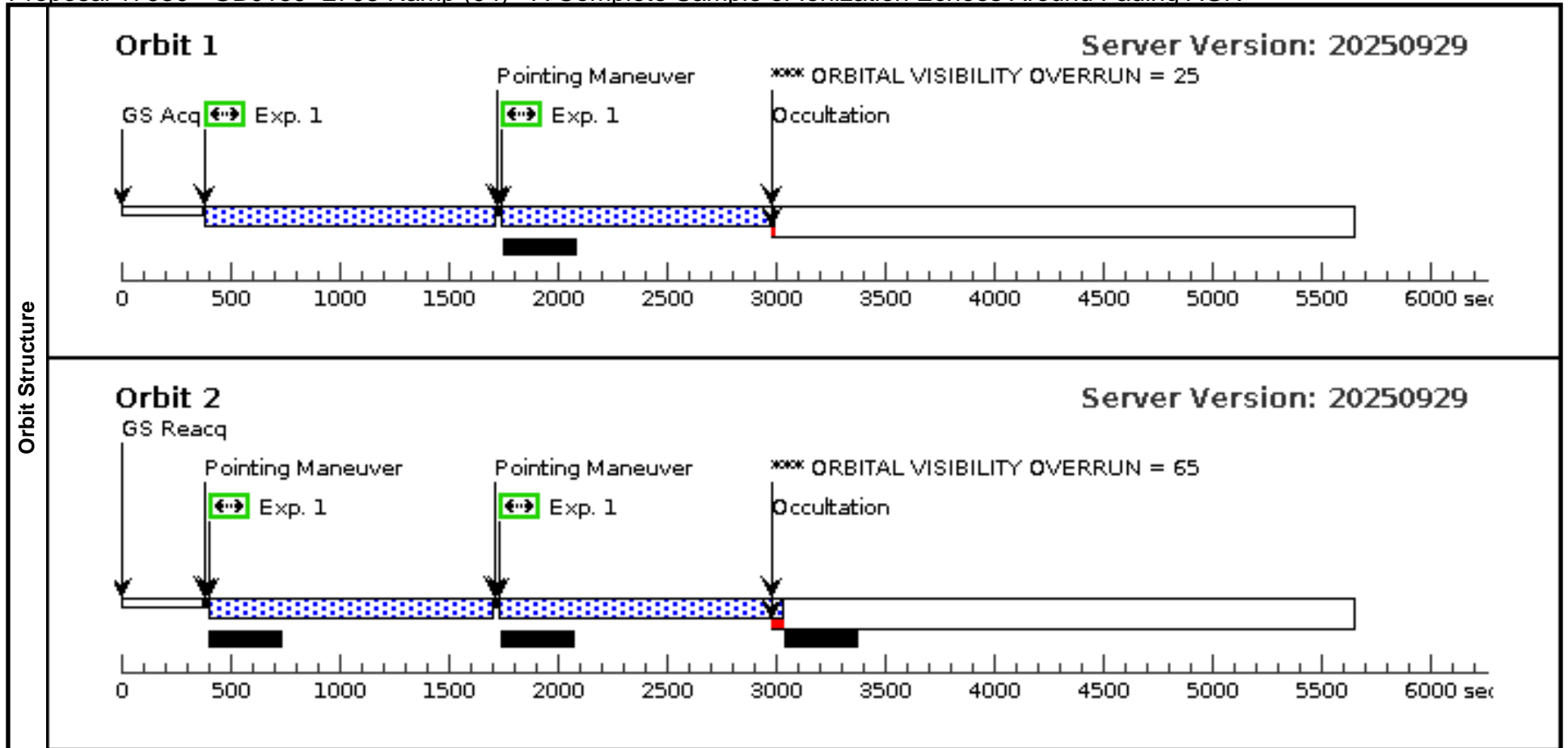
Visit	Proposal 17930, GB0111+2253 Ramp (03), completed Fri Jan 09 19:00:47 GMT 2026 Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none)									
	Diagnosics (GB0111+2253 Ramp (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (GB0111+2253 Ramp (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Pattern 1, Exps 1-1 in GB0111+2253 Ramp (03))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.									
Patterns	#	Primary Pattern	Secondary Pattern		Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.2637 Line Spacing=0.1856	Coordinate Frame=POS-TARG Pattern Orientation=20.7 Angle Between Sides=69.02 Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	GB0111+2253	RA: 01 11 33.3100 (17.8887917d) Dec: +22 53 59.10 (22.89975d) Equinox: J2000		V=(?) SDSSr=19.1	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[EMISSION LINE NEBULA, SEYFERT] Extended=YES									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) GB0111+2253		ACS/WFC, ACCUM, WFC1-IRAMP	FR853N 8656 A			Pattern 1, Exps 1-1 in GB0111+2253 Ramp (03) (1)	1100 Secs (4602 Secs)	
									[==>1125.0 Secs (Pattern 1)]	[1]
									[==>1125.0 Secs (Pattern 2)]	
								[==>1176.0 Secs (Pattern 3)]		
								[==>1176.0 Secs (Pattern 4)]	[2]	



Proposal 17930 - GB0159+2703 Ramp (04) - A Complete Sample of Ionization Echoes Around Fading AGN

Fri Jan 09 19:00:47 GMT 2026

Visit	Proposal 17930, GB0159+2703 Ramp (04), failed Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none)									
	Diagnosics (GB0159+2703 Ramp (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (GB0159+2703 Ramp (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Pattern 1, Exps 1-1 in GB0159+2703 Ramp (04))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.2637 Line Spacing=0.1856 Coordinate Frame=POS-TARG Pattern Orientation=20.7 Angle Between Sides=69.02 Center Pattern=false		(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	GB0159+2703	RA: 01 59 30.8400 (29.8785000d) Dec: +27 03 2.20 (27.05061d) Equinox: J2000		V=(?) SDSSr=18.9	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[EMISSION LINE NEBULA, SEYFERT] Extended=YES										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(4) GB0159+2703		ACS/WFC, ACCUM, WFC1-IRAMP	FR853N 8387 A			Pattern 1, Exps 1-1 in GB0159+2703 Ramp (04) (1)	1100 Secs (4602 Secs)	
									[==>1125.0 Secs (Pattern 1)]	[1]
									[==>1125.0 Secs (Pattern 2)]	
								[==>1176.0 Secs (Pattern 3)]		
								[==>1176.0 Secs (Pattern 4)]	[2]	



Proposal 17930 - GB0159+2703 Ramp (12) - A Complete Sample of Ionization Echoes Around Fading AGN

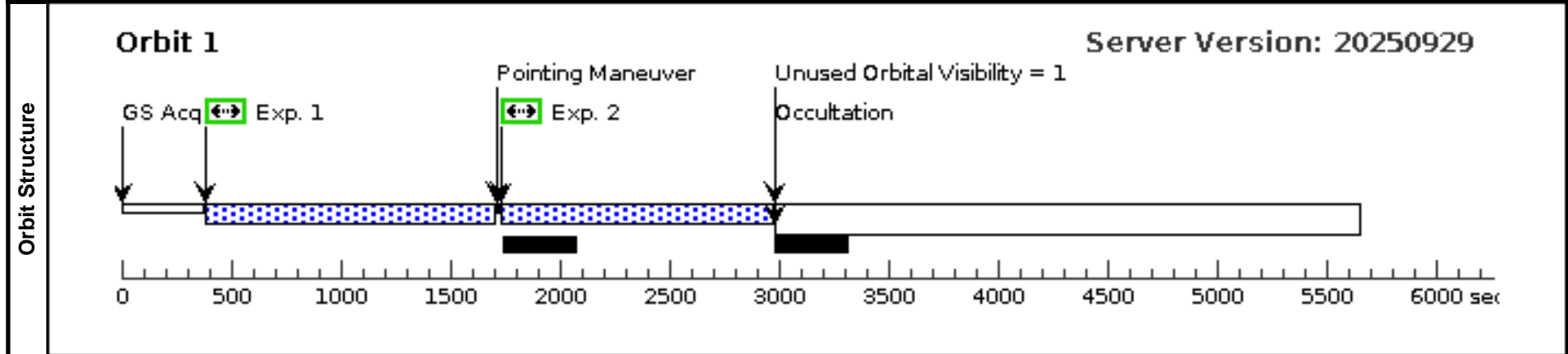
Fri Jan 09 19:00:47 GMT 2026

Visit	Proposal 17930, GB0159+2703 Ramp (12), scheduling Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none) <i>Comments: HOPR copy of visit 04, orbit2 only</i>
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Diagnostics	(Exposure 1 (GB0159+2703 Ramp (12))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.
	(Exposure 2 (GB0159+2703 Ramp (12))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.

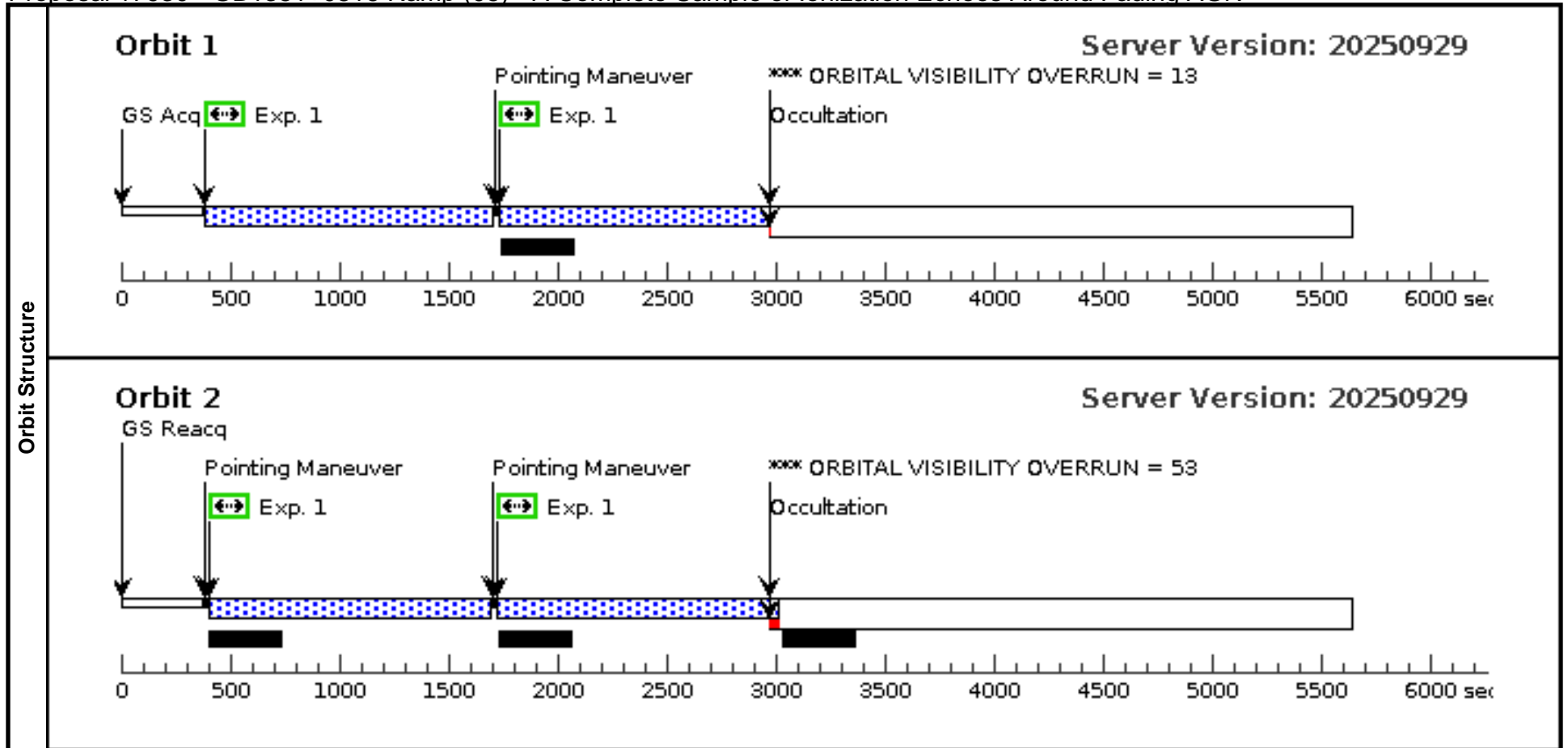
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>GB0159+2703</td> <td>RA: 01 59 30.8400 (29.8785000d) Dec: +27 03 2.20 (27.05061d) Equinox: J2000</td> <td></td> <td>V=(?) SDSSr=18.9</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(4)	GB0159+2703	RA: 01 59 30.8400 (29.8785000d) Dec: +27 03 2.20 (27.05061d) Equinox: J2000		V=(?) SDSSr=18.9	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(4)	GB0159+2703	RA: 01 59 30.8400 (29.8785000d) Dec: +27 03 2.20 (27.05061d) Equinox: J2000		V=(?) SDSSr=18.9	Reference Frame: ICRS								
<i>Comments:</i> Category=GALAXY Description=[EMISSION LINE NEBULA, SEYFERT] Extended=YES													

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(4)	GB0159+2703	ACS/WFC, ACCUM, WFC1-IRAMP	FR853N 8387 A			POS TARG 0.123,0.232		1100 Secs (1112 Secs)
[=>1112.0 Secs]										
2	(4)	GB0159+2703	ACS/WFC, ACCUM, WFC1-IRAMP	FR853N 8387 A			POS TARG -0.123,0.139		1100 Secs (1112 Secs)	[1]
									[=>1112.0 Secs]	



Proposal 17930 - GB1351+0816 Ramp (05) - A Complete Sample of Ionization Echoes Around Fading AGN

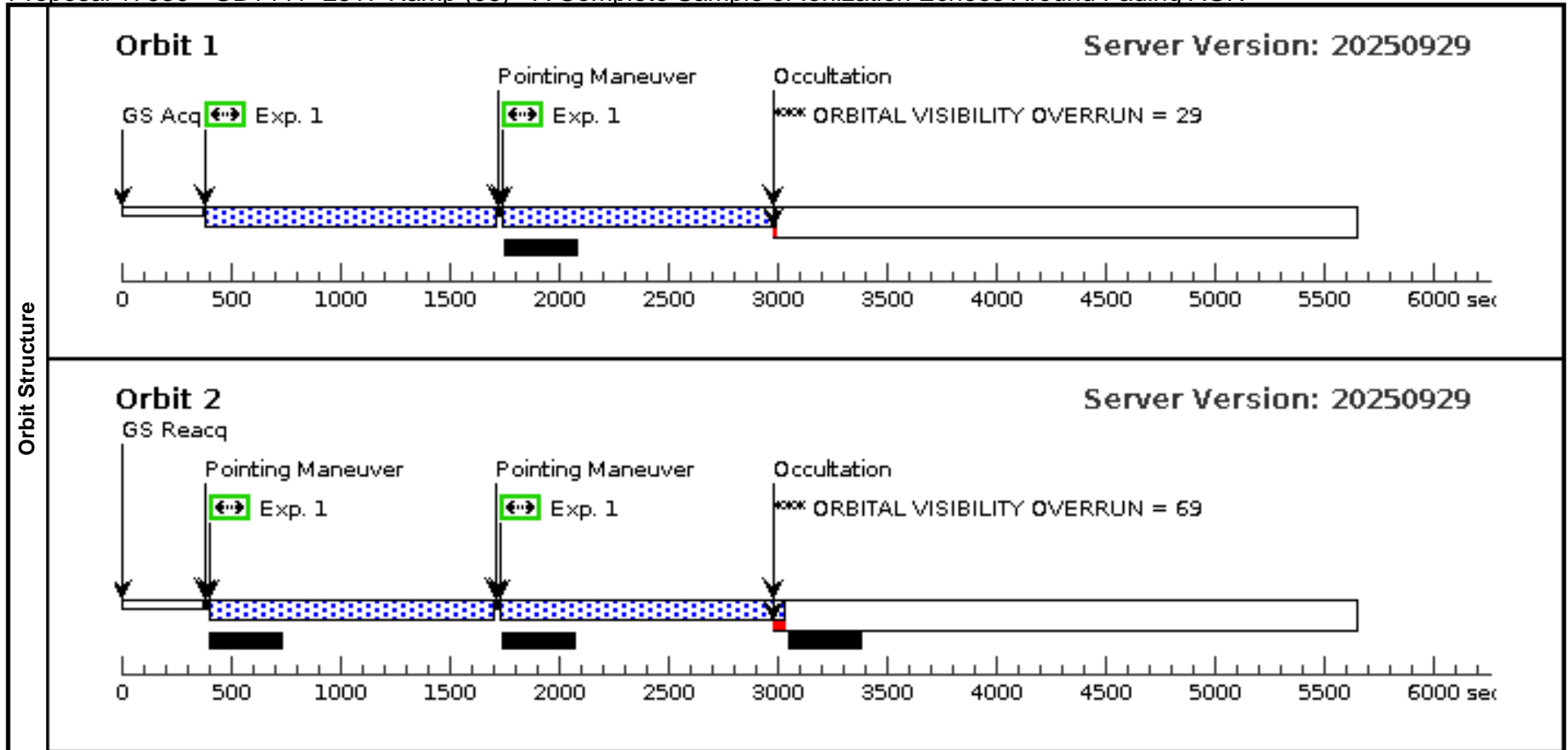
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Patterns	#	Primary Pattern		Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.2637 Line Spacing=0.1856	Coordinate Frame=POS-TARG Pattern Orientation=20.7 Angle Between Sides=69.02 Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	GB1351+0816	RA: 13 51 55.4800 (207.9811667d) Dec: +08 16 8.40 (8.26900d) Equinox: J2000		V=(?) SDSSr=19.0	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[EMISSION LINE NEBULA, SEYFERT] Extended=YES										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(5) GB1351+0816		ACS/WFC, ACCUM, WFC1-IRAMP	FR853N 8571 A			Pattern 1, Exps 1-1 in GB1351+0816 Ramp (05) (1)	1100 Secs (4566 Secs)	
									[==>1116.0 Secs (Pattern 1)]	[1]
									[==>1116.0 Secs (Pattern 2)]	
								[==>1167.0 Secs (Pattern 3)]		
								[==>1167.0 Secs (Pattern 4)]	[2]	



Proposal 17930 - GB1441+2517 Ramp (06) - A Complete Sample of Ionization Echoes Around Fading AGN

Fri Jan 09 19:00:47 GMT 2026

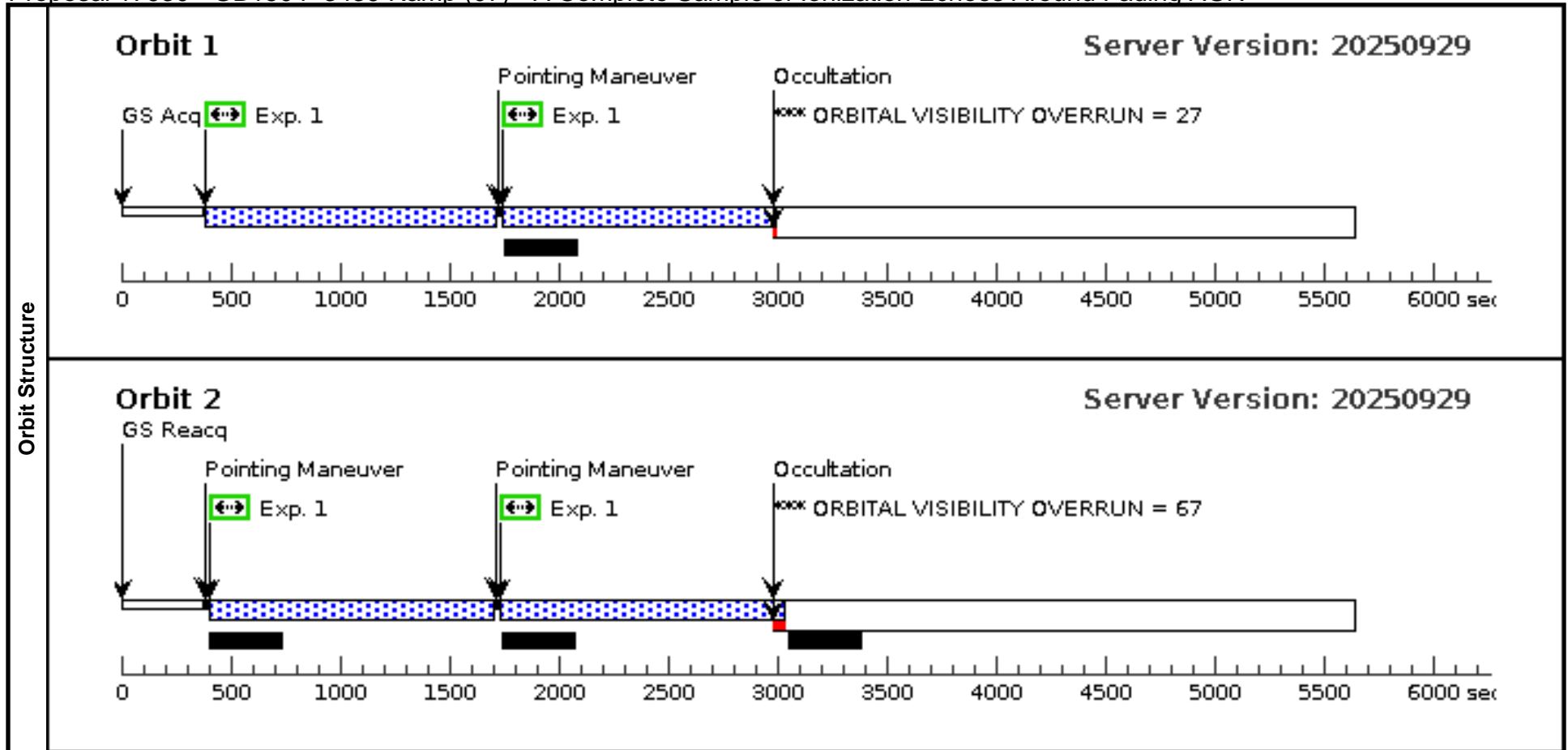
Visit	Proposal 17930, GB1441+2517 Ramp (06), scheduling Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none)									
	Diagnosics (GB1441+2517 Ramp (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (GB1441+2517 Ramp (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Pattern 1, Exps 1-1 in GB1441+2517 Ramp (06))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.2637 Line Spacing=0.1856	Coordinate Frame=POS-TARG Pattern Orientation=20.7 Angle Between Sides=69.02 Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	GB1441+2517	RA: 14 41 10.9500 (220.2956250d) Dec: +25 17 0.10 (25.28336d) Equinox: J2000		V=(?) SDSSr=18.5	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[EMISSION LINE NEBULA, SEYFERT] Extended=YES									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(6) GB1441+2517		ACS/WFC, ACCUM, WFC2-ORAMP	FR782N 7823 A			Pattern 1, Exps 1-1 in GB1441+2517 Ramp (06) (1)	1100 Secs (4610 Secs)	
									[==>1127.0 Secs (Pattern 1)]	[1]
									[==>1127.0 Secs (Pattern 2)]	
								[==>1178.0 Secs (Pattern 3)]		
								[==>1178.0 Secs (Pattern 4)]	[2]	



Proposal 17930 - GB1504+3439 Ramp (07) - A Complete Sample of Ionization Echoes Around Fading AGN

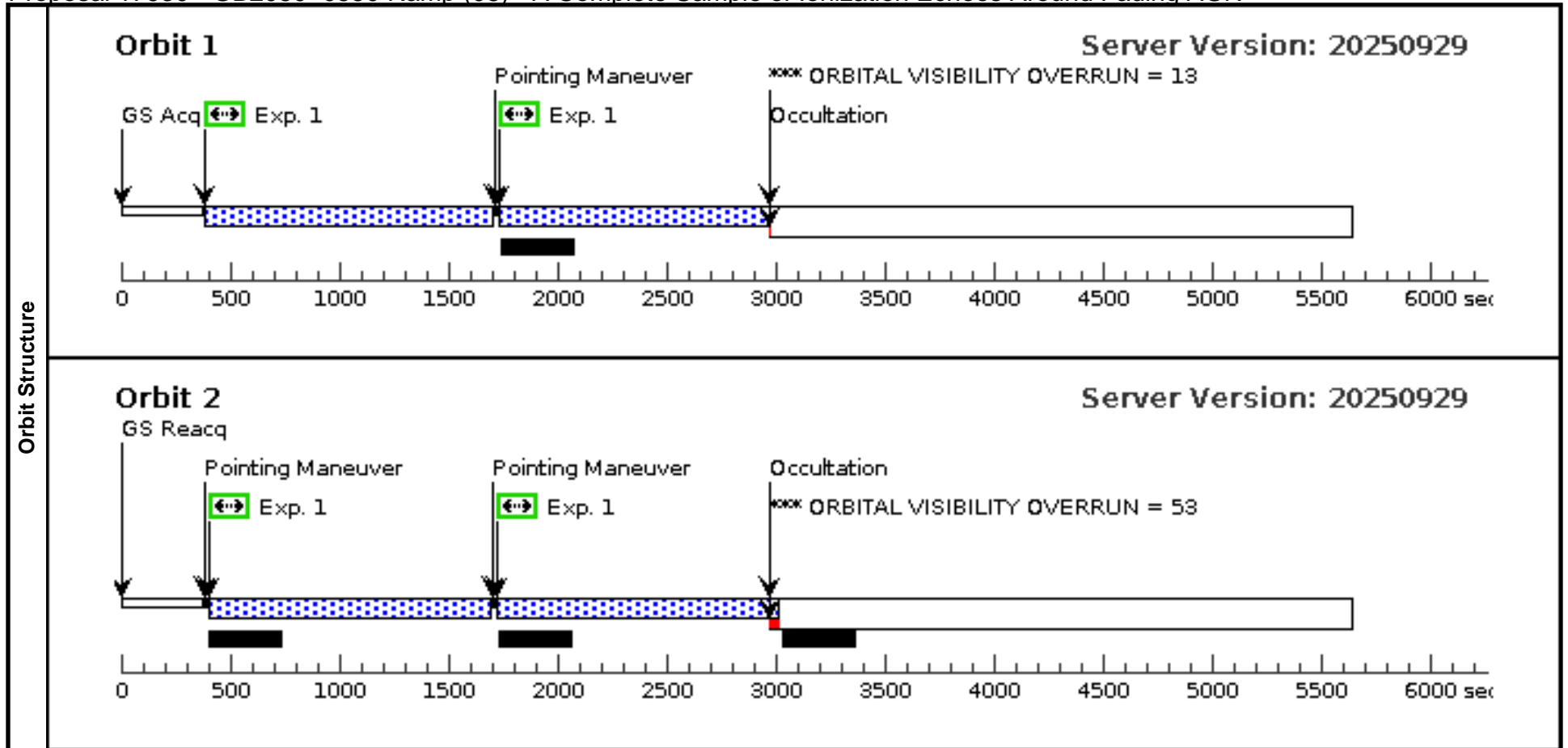
Fri Jan 09 19:00:47 GMT 2026

Visit	Proposal 17930, GB1504+3439 Ramp (07), scheduling Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none)									
	Diagnosics (GB1504+3439 Ramp (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (GB1504+3439 Ramp (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Pattern 1, Exps 1-1 in GB1504+3439 Ramp (07))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.									
Patterns	#	Primary Pattern	Secondary Pattern		Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.2637 Line Spacing=0.1856	Coordinate Frame=POS-TARG Pattern Orientation=20.7 Angle Between Sides=69.02 Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	GB1504+3439	RA: 15 04 20.6800 (226.0861667d) Dec: +34 39 58.20 (34.66617d) Equinox: J2000		V=(?) SDSSr=18.7	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[EMISSION LINE NEBULA, SEYFERT] Extended=YES									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(7) GB1504+3439		ACS/WFC, ACCUM, WFC1-IRAMP	FR853N 8492 A			Pattern 1, Exps 1-1 in GB1504+3439 Ramp (07) (1)	1100 Secs (4614 Secs)	
									[==>1128.0 Secs (Pattern 1)]	[1]
									[==>1128.0 Secs (Pattern 2)]	
								[==>1179.0 Secs (Pattern 3)]		
								[==>1179.0 Secs (Pattern 4)]	[2]	



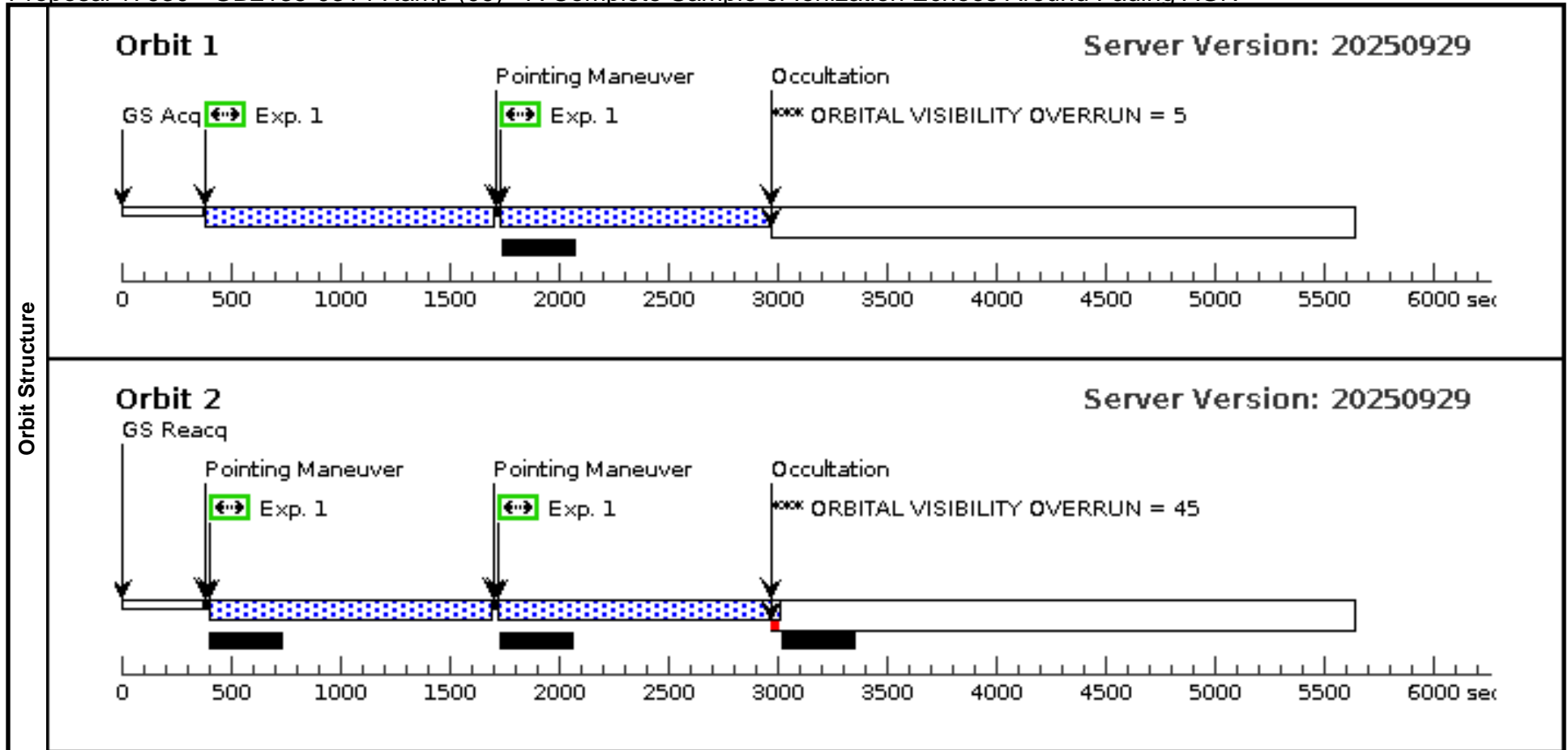
Proposal 17930 - GB2050+0550 Ramp (08) - A Complete Sample of Ionization Echoes Around Fading AGN

Visit	Proposal 17930, GB2050+0550 Ramp (08), completed Fri Jan 09 19:00:47 GMT 2026 Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none)									
	Diagnosics (GB2050+0550 Ramp (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (GB2050+0550 Ramp (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Pattern 1, Exps 1-1 in GB2050+0550 Ramp (08))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.									
Patterns	#	Primary Pattern	Secondary Pattern		Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.2637 Line Spacing=0.1856 Coordinate Frame=POS-TARG Pattern Orientation=20.7 Angle Between Sides=69.02 Center Pattern=false			(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	GB2050+0550	RA: 20 50 58.0800 (312.7420000d) Dec: +05 50 12.80 (5.83689d) Equinox: J2000		V=(?) SDSSr=18.6	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[EMISSION LINE NEBULA, SEYFERT] Extended=YES										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(8) GB2050+0550	ACS/WFC, ACCUM, WFC1-IRAMP	FR853N 8538 A				Pattern 1, Exps 1-1 in GB2050+0550 Ramp (08) (1)	1100 Secs (4566 Secs)	
									[==>1116.0 Secs (Pattern 1)]	[1]
									[==>1116.0 Secs (Pattern 2)]	
								[==>1167.0 Secs (Pattern 3)]		
								[==>1167.0 Secs (Pattern 4)]	[2]	



Proposal 17930 - GB2135-0314 Ramp (09) - A Complete Sample of Ionization Echoes Around Fading AGN

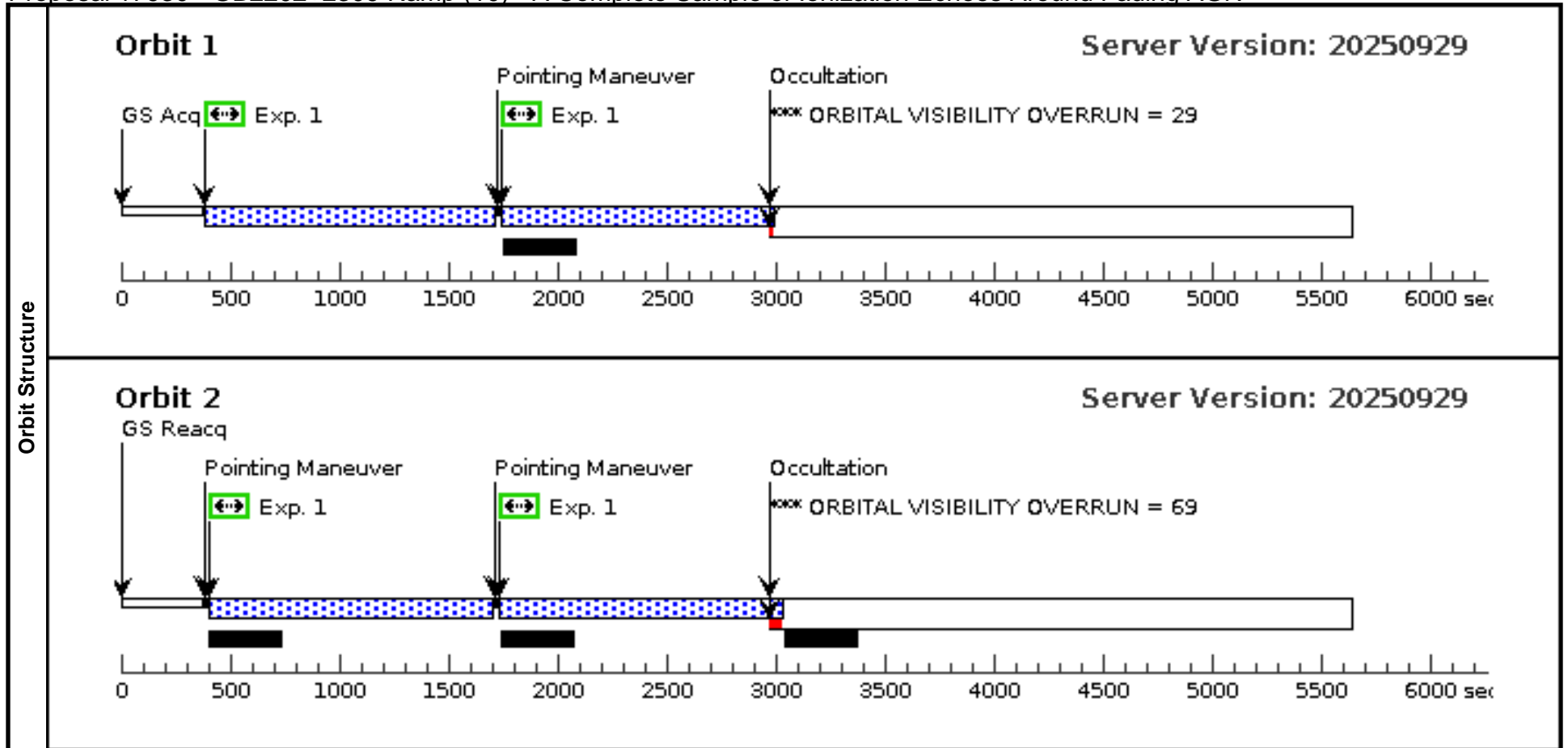
Visit	Proposal 17930, GB2135-0314 Ramp (09), completed Fri Jan 09 19:00:47 GMT 2026 Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none)									
	Diagnosics (GB2135-0314 Ramp (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (GB2135-0314 Ramp (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Pattern 1, Exps 1-1 in GB2135-0314 Ramp (09))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.									
Patterns	#	Primary Pattern		Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.2637 Line Spacing=0.1856	Coordinate Frame=POS-TARG Pattern Orientation=20.7 Angle Between Sides=69.02 Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	GB2135-0314	RA: 21 35 42.8500 (323.9285417d) Dec: -03 14 8.80 (-3.23578d) Equinox: J2000		V=(?) SDSSr=19.2	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[EMISSION LINE NEBULA, SEYFERT] Extended=YES									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(9) GB2135-0314		ACS/WFC, ACCUM, WFC1-IRAMP	FR853N 8177 A			Pattern 1, Exps 1-1 in GB2135-0314 Ramp (09) (1)	1100 Secs (4554 Secs)	
									[==>1113.0 Secs (Pattern 1)]	[1]
									[==>1113.0 Secs (Pattern 2)]	
								[==>1164.0 Secs (Pattern 3)]		
								[==>1164.0 Secs (Pattern 4)]	[2]	



Proposal 17930 - GB2202+2309 Ramp (10) - A Complete Sample of Ionization Echoes Around Fading AGN

Fri Jan 09 19:00:47 GMT 2026

Visit	Proposal 17930, GB2202+2309 Ramp (10), scheduling Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none)									
	Diagnosics (GB2202+2309 Ramp (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (GB2202+2309 Ramp (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Pattern 1, Exps 1-1 in GB2202+2309 Ramp (10))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.2637 Line Spacing=0.1856 Coordinate Frame=POS-TARG Pattern Orientation=20.7 Angle Between Sides=69.02 Center Pattern=false		(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	GB2202+2309	RA: 22 02 16.7100 (330.5696250d) Dec: +23 09 3.10 (23.15086d) Equinox: J2000		V=(?) SDSSr=18.9	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[EMISSION LINE NEBULA, SEYFERT] Extended=YES										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(10) GB2202+2309		ACS/WFC, ACCUM, WFC1-IRAMP	FR853N 8256 A			Pattern 1, Exps 1-1 in GB2202+2309 Ramp (10) (1)	1100 Secs (4602 Secs)	
									[==>1125.0 Secs (Pattern 1)]	[1]
									[==>1125.0 Secs (Pattern 2)]	
								[==>1176.0 Secs (Pattern 3)]		
								[==>1176.0 Secs (Pattern 4)]	[2]	



Proposal 17930 - GB2308+3303 Ramp (11) - A Complete Sample of Ionization Echoes Around Fading AGN

Fri Jan 09 19:00:47 GMT 2026

Visit	Proposal 17930, GB2308+3303 Ramp (11), scheduling Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none)									
	Diagnosics (GB2308+3303 Ramp (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (GB2308+3303 Ramp (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Pattern 1, Exps 1-1 in GB2308+3303 Ramp (11))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp filters as central wavelengths & transmission efficiencies vary within the apertures.									
Patterns	#	Primary Pattern	Secondary Pattern		Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.2637 Line Spacing=0.1856	Coordinate Frame=POS-TARG Pattern Orientation=20.7 Angle Between Sides=69.02 Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	GB2308+3303	RA: 23 08 29.3700 (347.1223750d) Dec: +33 03 10.50 (33.05292d) Equinox: J2000		V=(?) SDSSr=19.1	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[EMISSION LINE NEBULA, SEYFERT] Extended=YES									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(11) GB2308+3303		ACS/WFC, ACCUM, WFC1-IRAMP	FR853N 8427 A			Pattern 1, Exps 1-1 in GB2308+3303 Ramp (11) (1)	1100 Secs (4614 Secs)	
									[==>1128.0 Secs (Pattern 1)]	[1]
									[==>1128.0 Secs (Pattern 2)]	
								[==>1179.0 Secs (Pattern 3)]		
								[==>1179.0 Secs (Pattern 4)]	[2]	

