



18127 - Imaging the Exceptional Nebulosity of the Suspected Iax Supernova Remnant of 1181 AD

Cycle: 33, Proposal Category: GO
(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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Dr. Dillon Dong (CoI)	Associated Universities, Inc.
Dr. Peter M. Garnavich (CoI)	University of Notre Dame

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) PA30-NE-A	WFC3/IR	1	13-Feb-2026 09:00:14.0	yes
02	(2) PA30-NE-B	WFC3/IR	1	13-Feb-2026 09:00:14.0	yes
03	(1) PA30-NE-A	WFC3/IR	2	13-Feb-2026 09:00:15.0	yes
04	(3) PA30-NW-A	WFC3/IR	1	13-Feb-2026 09:00:15.0	yes
05	(4) PA30-NW-B	WFC3/IR	1	13-Feb-2026 09:00:15.0	yes
06	(3) PA30-NW-A	WFC3/IR	2	13-Feb-2026 09:00:16.0	yes
07	(5) PA30-SE-A	WFC3/IR	1	13-Feb-2026 09:00:16.0	yes
08	(6) PA30-SE-B	WFC3/IR	1	13-Feb-2026 09:00:16.0	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	(5) PA30-SE-A	WFC3/IR	2	13-Feb-2026 09:00:17.0	yes
10	(7) PA30-SW-A	WFC3/IR	1	13-Feb-2026 09:00:17.0	yes
11	(8) PA30-SW-B	WFC3/IR	1	13-Feb-2026 09:00:17.0	yes
12	(7) PA30-SW-A	WFC3/IR	2	13-Feb-2026 09:00:18.0	yes

16 Total Orbits Used

ABSTRACT

A recently discovered Galactic nebula appears to be the likely remnant of the historic Galactic guest star of 1181 AD which was a subluminous supernova (SN) outburst. The remnant's striking and unique filamentary morphology, relatively low 1200 km/s expansion velocity, the extraordinary properties of its central star, plus its unusual elemental make-up matches predicted properties of the poorly understood Iax subclass of H-poor thermonuclear supernovae. As one of only five Milky Way supernova reported in the past millennium, we propose WFC3/IR images sensitive to its sulfur and iron emission lines to reveal its subarcsecond structure, compare these line emissions to the dust distribution seen in the mid-infrared, and understand the luminosity history of the central star's 16,000 km/s wind. These data will provide crucial insights into the nature of Iax supernovae.

OBSERVING DESCRIPTION

The goal is to obtain near infrared [S II], [S III], and [Fe II] emission line images of Pa 30 using the WFC3/IR camera that are deeper and of higher resolution than ground-based [S II] images. WFC3/IR offers good filament detections due to its large pixels, less extinction than in the optical (Pa 30: $E(B-V) \sim 0.90$ mag), and high throughputs. WFC3/IR also allows the imaging of Pa 30's [Fe II] 12,570 - 12,946 Ang emission which is expected to be strong based on spectra of ejecta of other young SNRs (e.g., Cas A, Crab, and Kepler).

Images are to be taken in these two filters centered at four regions using four orbits for each region, thus requiring 4 x 4 orbits = 16 orbits done in 12 visits, keeping within the requirement of visits being less than or equal to 3 orbits.

Both the F098M and F127M image data would be taken in standard MULTACCUM mode with aperture IR-FIX and SAMPSEQ= SPARS50 or SPARS100 and NSAMP=13 requiring two orbits (46.1 minutes each) to execute for each of the four target region of the Pa 30 nebula. The primary dither patten would be a four point WFC3-IR-DITHER-BOX-MIN. This dither patten will recover more than 95% of the detector's bad pixels.

Proposal 18127 (STScI Edit Number: 2, Created: Friday, February 13, 2026, 9:00:18AM Eastern Standard Time) - Overview

Pa 30's filaments are relatively faint with the brighter ones having a measured [S II] 6716,6731 flux of 2.5×10^{-17} erg cm² s⁻¹. Ground-based spectra suggests the [S III] 9531 Ang line is similar in strength to the [S II] 6716 Ang line. Adopting this and the sum of [S II] 10,290-10,373 lines equal to the strength of [S III] 9531, the WFC3 ETC yield a S/N of 14 for a 45 minute exposure. This should insure a good detection in two orbits on Pa 30's fainter filaments for each filter even given Pa 30's unknown sub-arcsecond structure.

To cover the entire remnant without the "Death Star" defect, we requested and was approved for ORIENT settings to enable a complete mosaic. We have chosen the specific ORIENT of 45, 135, or 225 degrees.

Proposal 18127 - Visit 01 - Imaging the Exceptional Nebulosity of the Suspected Iax Supernova Remnant of 1181 AD

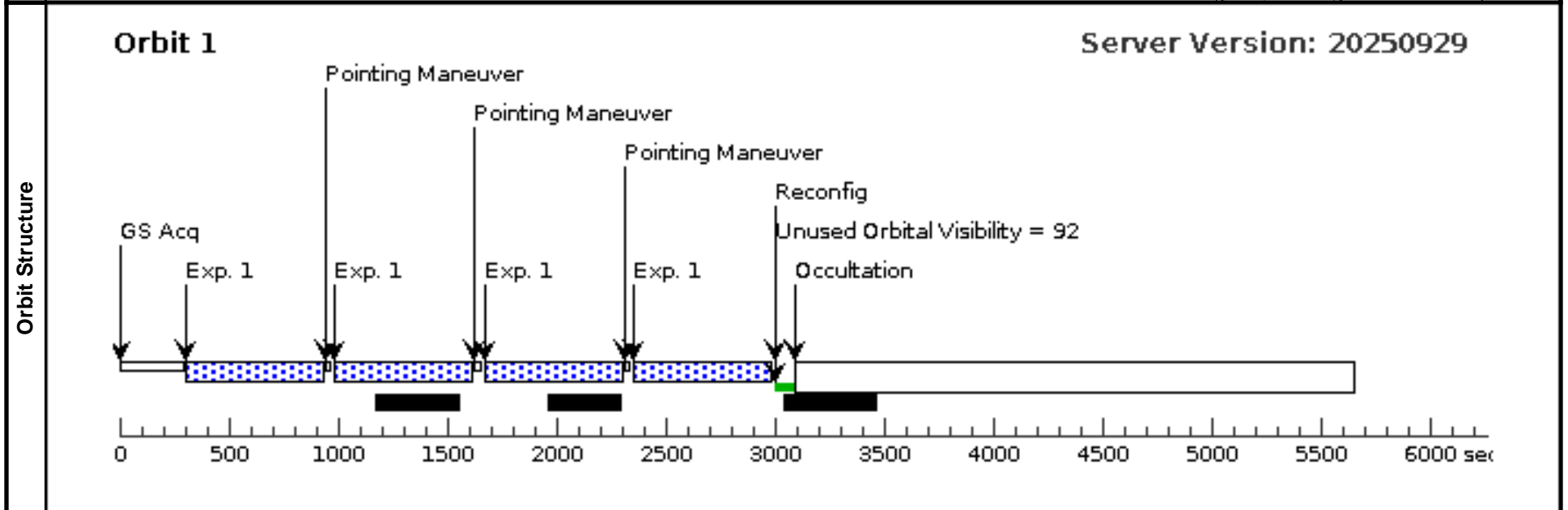
Fri Feb 13 14:00:18 GMT 2026

Visit	Proposal 18127, Visit 01, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: ORIENT 224.8D TO 225.3 D		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	Pattern Type=WFC3-IR-DITHER-BOX-UVIS Purpose=DITHER Number Of Points=4 Point Spacing=23.02 Line Spacing=35.212	Coordinate Frame=POS-TARG Pattern Orientation=0.713 Angle Between Sides=89.287 Center Pattern=true	(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	PA30-NE-A	RA: 00 53 18.4320 (13.3268000d) Dec: +67 30 53.43 (67.51484d) Equinox: J2000		V=21+/-0.5	Reference Frame: ICRS
	<i>Comments:</i> Category=ISM Description=[EJECTA, EMISSION LINE NEBULA, SNR] Extended=YES					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) PA30-NE-A	WFC3/IR, MULTIACCUM, IR-FIX	F098M	NSAMP=13; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O ONEB103	Pattern 2, Exps 1-1 i n Visit 01 (2)	602.937703 Secs (2411.751 Secs)		
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	



Proposal 18127 - Visit 02 - Imaging the Exceptional Nebulosity of the Suspected Iax Supernova Remnant of 1181 AD

Fri Feb 13 14:00:18 GMT 2026

Visit	Proposal 18127, Visit 02, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: SAME ORIENT AS 01		

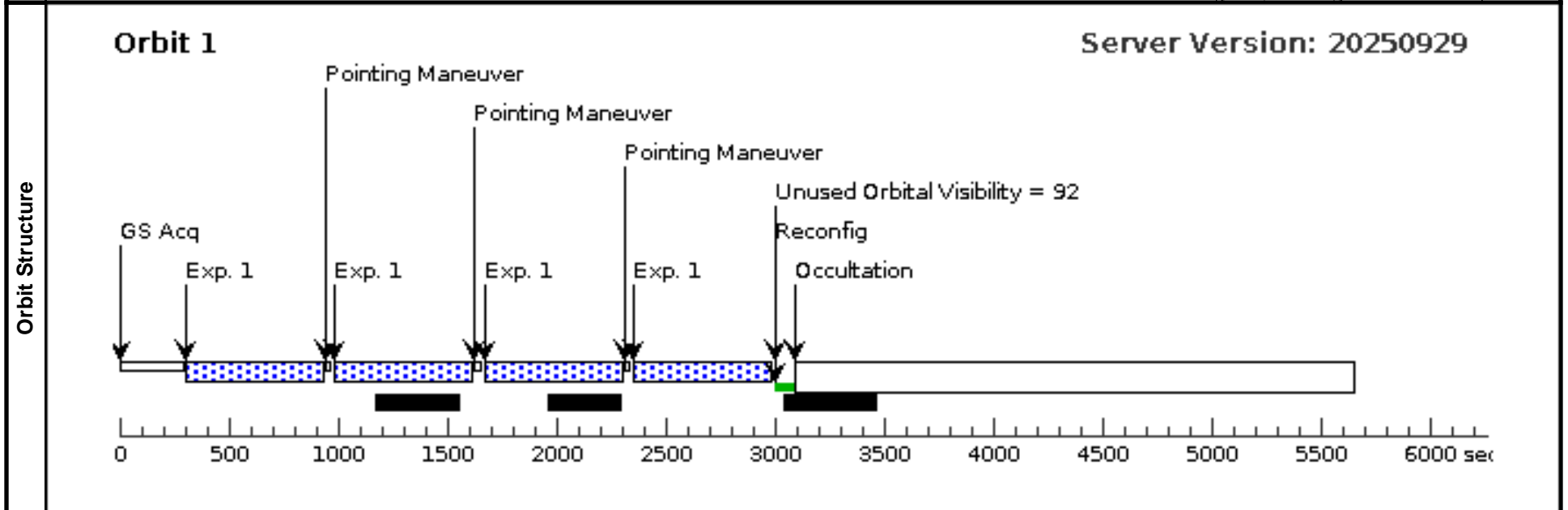
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	PA30-NE-B	RA: 00 53 21.7540 (13.3406417d) Dec: +67 30 52.74 (67.51465d) Equinox: J2000		V=21+/-0.5	Reference Frame: ICRS

Comments:
 Category=ISM
 Description=[EJECTA, EMISSION LINE NEBULA, SNR]
 Extended=YES

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) PA30-NE-B	WFC3/IR, MULTIACCUM, IR-FIX	F098M	NSAMP=13; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O ONEB103	Pattern 2, Exps 1-1 i n Visit 02 (2)	602.937703 Secs (2411.751 Secs)		[1]

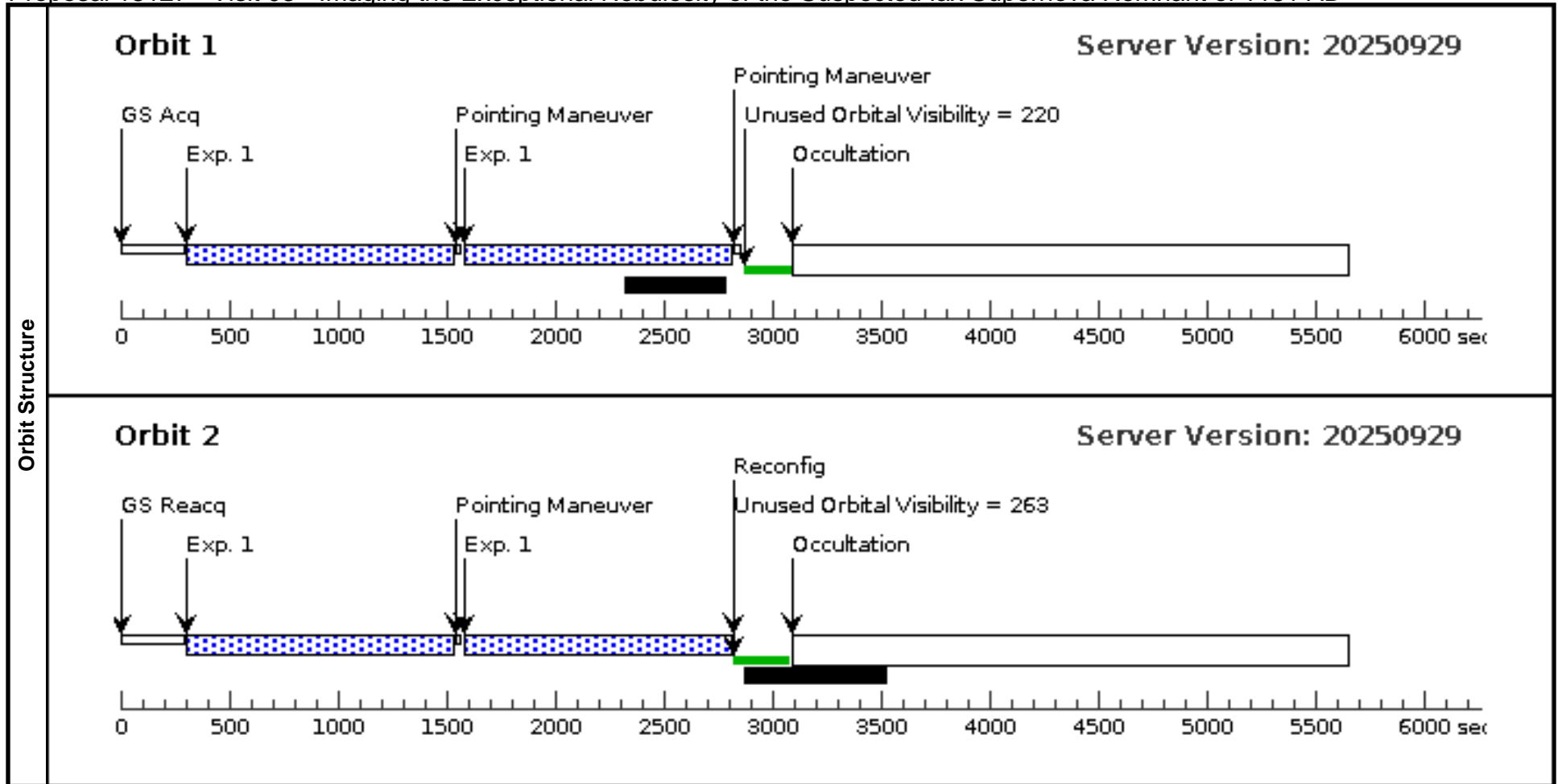
[==>(Pattern 1)]
 [==>(Pattern 2)]
 [==>(Pattern 3)]
 [==>(Pattern 4)]



Proposal 18127 - Visit 03 - Imaging the Exceptional Nebulosity of the Suspected Iax Supernova Remnant of 1181 AD

Fri Feb 13 14:00:18 GMT 2026

Visit	Proposal 18127, Visit 03, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
(2)		Pattern Type=WFC3-IR-DITHER-BOX-UVIS Purpose=DITHER Number Of Points=4 Point Spacing=23.02 Line Spacing=35.212	Coordinate Frame=POS-TARG Pattern Orientation=0.713 Angle Between Sides=89.287 Center Pattern=true						(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous				
	(1)	PA30-NE-A	RA: 00 53 18.4320 (13.3268000d) Dec: +67 30 53.43 (67.51484d) Equinox: J2000			V=21+/-0.5	Reference Frame: ICRS				
	Comments: Category=ISM Description=[EJECTA, EMISSION LINE NEBULA, SNR] Extended=YES										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(1) PA30-NE-A	WFC3/IR, MULTIACCUM, IR-FIX	F127M	NSAMP=13; SAMP-SEQ=SPAR S100	GS ACQ SCENARI O ONEB103	Pattern 2, Exps 1-1 i n Visit 03 (2)		1202.936167 Secs (4811.745 Secs)		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		[2]
								[==>(Pattern 3)]			
								[==>(Pattern 4)]			



Proposal 18127 - Visit 04 - Imaging the Exceptional Nebulosity of the Suspected Iax Supernova Remnant of 1181 AD

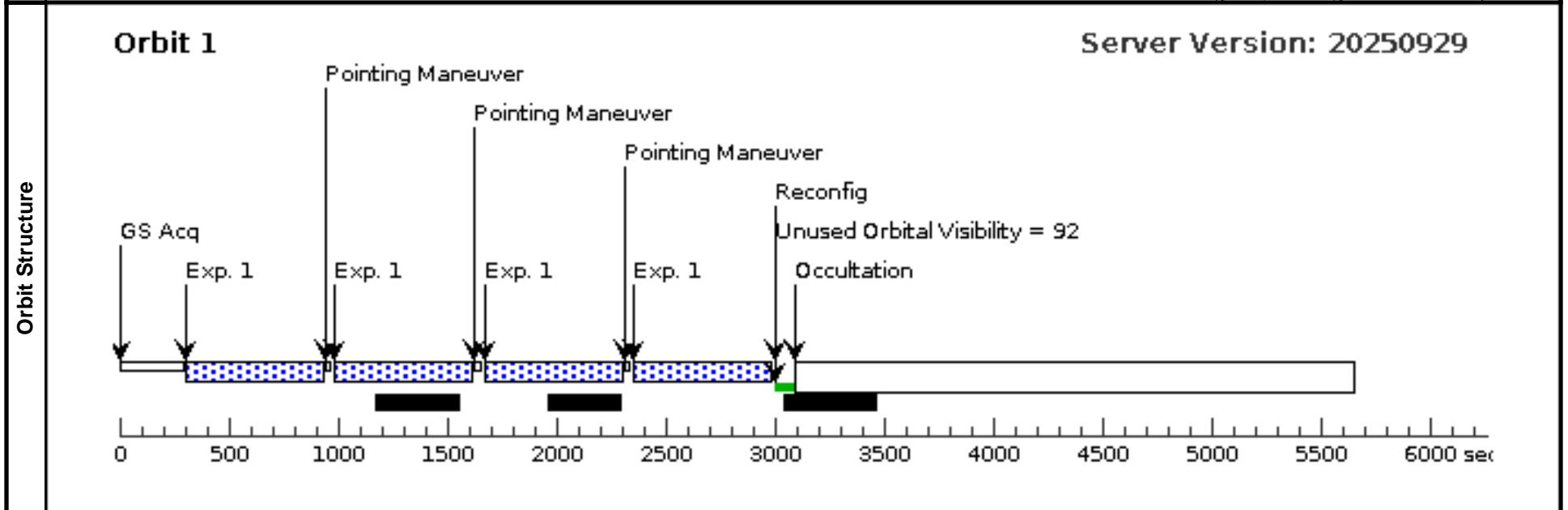
Fri Feb 13 14:00:18 GMT 2026

Visit	Proposal 18127, Visit 04, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	Pattern Type=WFC3-IR-DITHER-BOX-UVIS Purpose=DITHER Number Of Points=4 Point Spacing=23.02 Line Spacing=35.212	Coordinate Frame=POS-TARG Pattern Orientation=0.713 Angle Between Sides=89.287 Center Pattern=true	(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	PA30-NW-A	RA: 00 53 3.5020 (13.2645917d) Dec: +67 30 53.43 (67.51484d) Equinox: J2000		V=21+/-0.5	Reference Frame: ICRS
	<i>Comments:</i> Category=ISM Description=[EJECTA, EMISSION LINE NEBULA, SNR] Extended=YES					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) PA30-NW-A	WFC3/IR, MULTIACCUM, IR-FIX	F098M	NSAMP=13; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O ONEB103	Pattern 2, Exps 1-1 i n Visit 04 (2)	602.937703 Secs (2411.751 Secs)	[1]	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		



Proposal 18127 - Visit 05 - Imaging the Exceptional Nebulosity of the Suspected Iax Supernova Remnant of 1181 AD

Fri Feb 13 14:00:18 GMT 2026

Visit	Proposal 18127, Visit 05, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01		

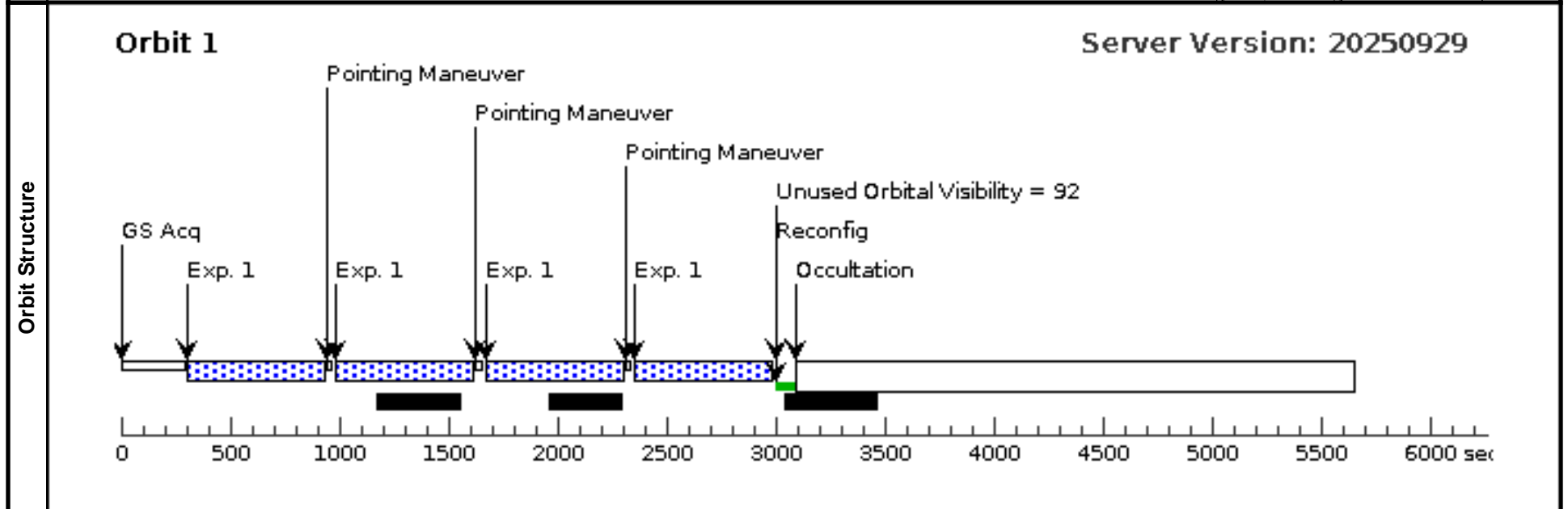
Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	Pattern Type=WFC3-IR-DITHER-BOX-UVIS Purpose=DITHER Number Of Points=4 Point Spacing=23.02 Line Spacing=35.212	Coordinate Frame=POS-TARG Pattern Orientation=0.713 Angle Between Sides=89.287 Center Pattern=true	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	PA30-NW-B	RA: 00 53 0.3560 (13.2514833d) Dec: +67 30 53.19 (67.51478d) Equinox: J2000		V=21+/-0.5	Reference Frame: ICRS

Comments:
 Category=ISM
 Description=[EJECTA, EMISSION LINE NEBULA, SNR]
 Extended=YES

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(4) PA30-NW-B	WFC3/IR, MULTIACCUM, IR-FIX	F098M	NSAMP=13; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O ONEB103	Pattern 2, Exps 1-1 i n Visit 05 (2)	602.937703 Secs (2411.751 Secs)	[1]	

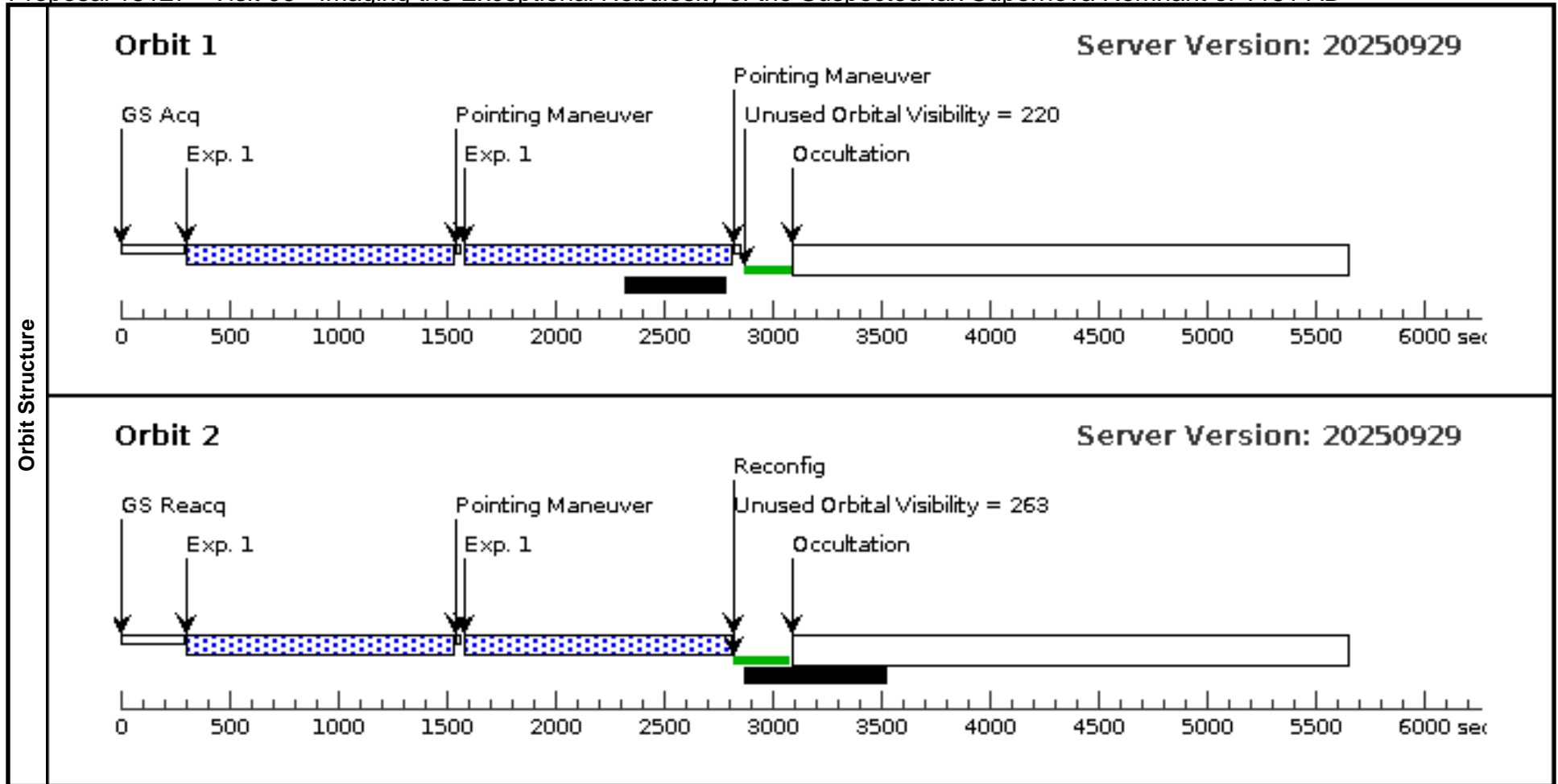
[=>(Pattern 1)]
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 [=>(Pattern 3)]
 [=>(Pattern 4)]



Proposal 18127 - Visit 06 - Imaging the Exceptional Nebulosity of the Suspected Iax Supernova Remnant of 1181 AD

Fri Feb 13 14:00:18 GMT 2026

Visit	Proposal 18127, Visit 06, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
(2)		Pattern Type=WFC3-IR-DITHER-BOX-UVIS Purpose=DITHER Number Of Points=4 Point Spacing=23.02 Line Spacing=35.212		Coordinate Frame=POS-TARG Pattern Orientation=0.713 Angle Between Sides=89.287 Center Pattern=true					(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(3)	PA30-NW-A	RA: 00 53 3.5020 (13.2645917d) Dec: +67 30 53.43 (67.51484d) Equinox: J2000				V=21+/-0.5		Reference Frame: ICRS		
Comments: Category=ISM Description=[EJECTA, EMISSION LINE NEBULA, SNR] Extended=YES											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(3) PA30-NW-A	WFC3/IR, MULTIACCUM, IR-FIX	F127M	NSAMP=13; SAMP-SEQ=SPAR S100	GS ACQ SCENARI O ONEB103	Pattern 2, Exps 1-1 i n Visit 06 (2)	1202.936167 Secs (4811.745 Secs)			
										[==>(Pattern 1)]	[1]
										[==>(Pattern 2)]	
									[==>(Pattern 3)]		
									[==>(Pattern 4)]	[2]	



Proposal 18127 - Visit 07 - Imaging the Exceptional Nebulosity of the Suspected Iax Supernova Remnant of 1181 AD

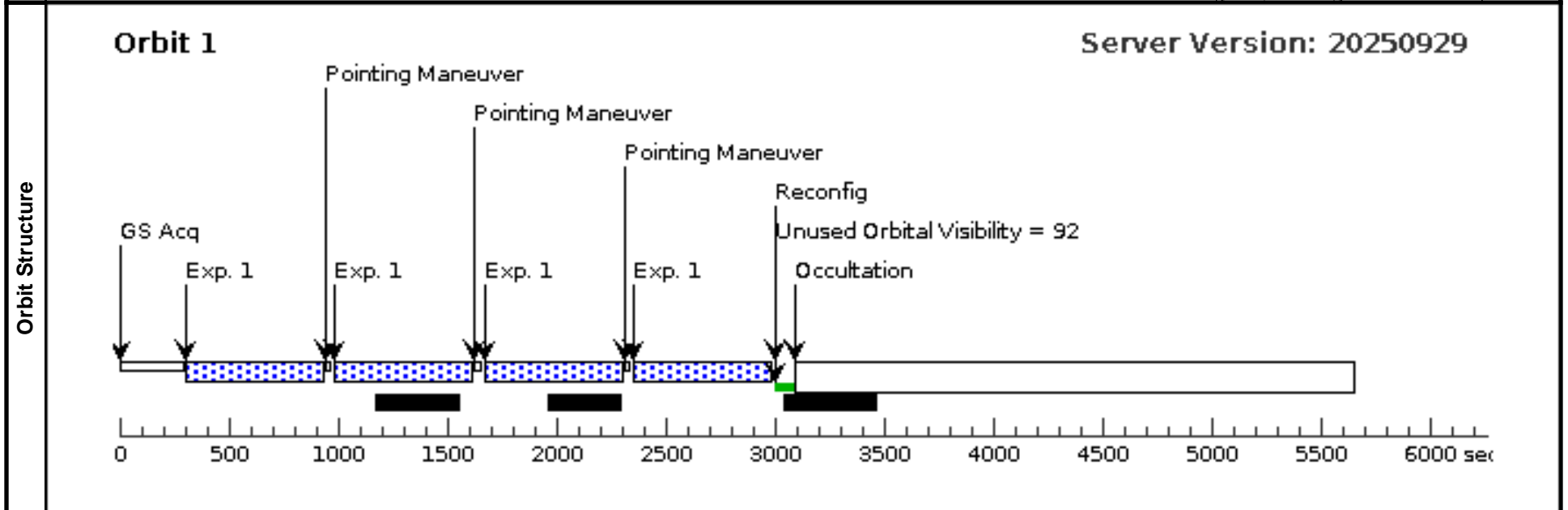
Fri Feb 13 14:00:18 GMT 2026

Visit	Proposal 18127, Visit 07, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	Pattern Type=WFC3-IR-DITHER-BOX-UVIS Purpose=DITHER Number Of Points=4 Point Spacing=23.02 Line Spacing=35.212	Coordinate Frame=POS-TARG Pattern Orientation=0.713 Angle Between Sides=89.287 Center Pattern=true	(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	PA30-SE-A	RA: 00 53 18.4250 (13.3267708d) Dec: +67 29 17.80 (67.48828d) Equinox: J2000		V=21+/-0.5	Reference Frame: ICRS
	<i>Comments:</i> Category=ISM Description=[EJECTA, EMISSION LINE NEBULA, SNR] Extended=YES					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(5) PA30-SE-A	WFC3/IR, MULTIACCUM, IR-FIX	F098M	NSAMP=13; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O ONEB103	Pattern 2, Exps 1-1 i n Visit 07 (2)	602.937703 Secs (2411.751 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 18127 - Visit 08 - Imaging the Exceptional Nebulosity of the Suspected Iax Supernova Remnant of 1181 AD

Fri Feb 13 14:00:18 GMT 2026

Visit	Proposal 18127, Visit 08, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: SAME ORIENT AS 01		

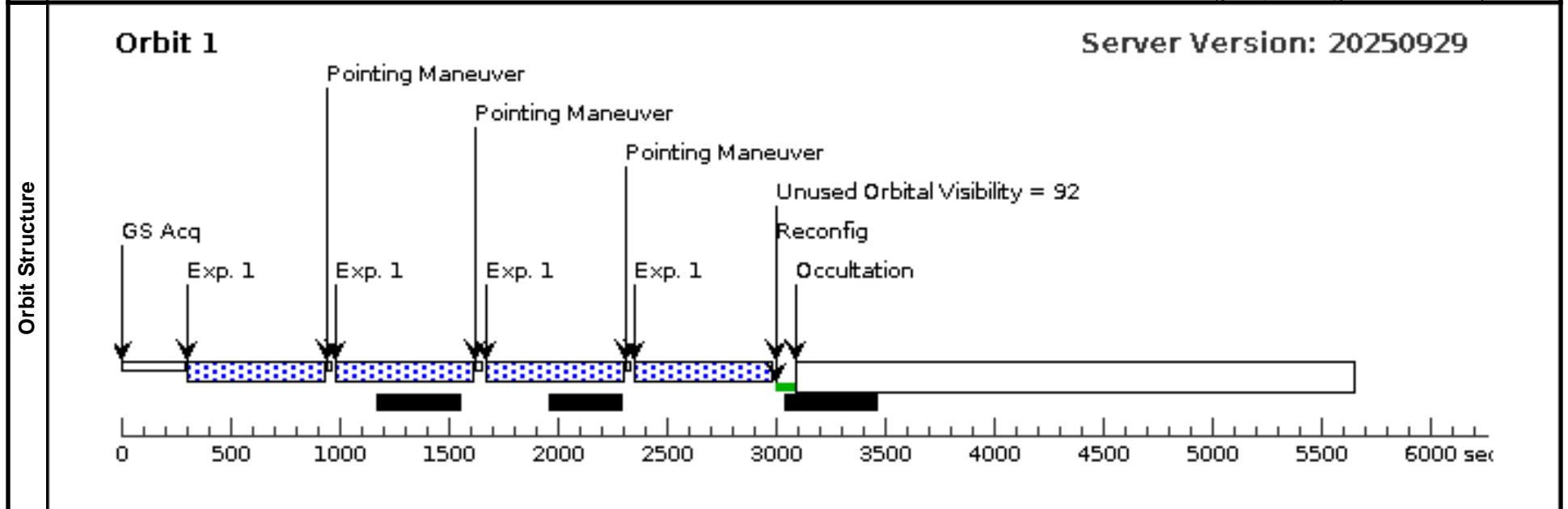
Patterns	#	Primary Pattern	Secondary Pattern	Exposures
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(6)	PA30-SE-B	RA: 00 53 21.6300 (13.3401250d) Dec: +67 29 17.70 (67.48825d) Equinox: J2000		V=21+/-0.5	Reference Frame: ICRS

Comments:
 Category=ISM
 Description=[EJECTA, EMISSION LINE NEBULA, SNR]
 Extended=YES

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(6) PA30-SE-B	WFC3/IR, MULTIACCUM, IR-FIX	F098M	NSAMP=13; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O ONEB103	Pattern 2, Exps 1-1 i n Visit 08 (2)	602.937703 Secs (2411.751 Secs)	[1]	

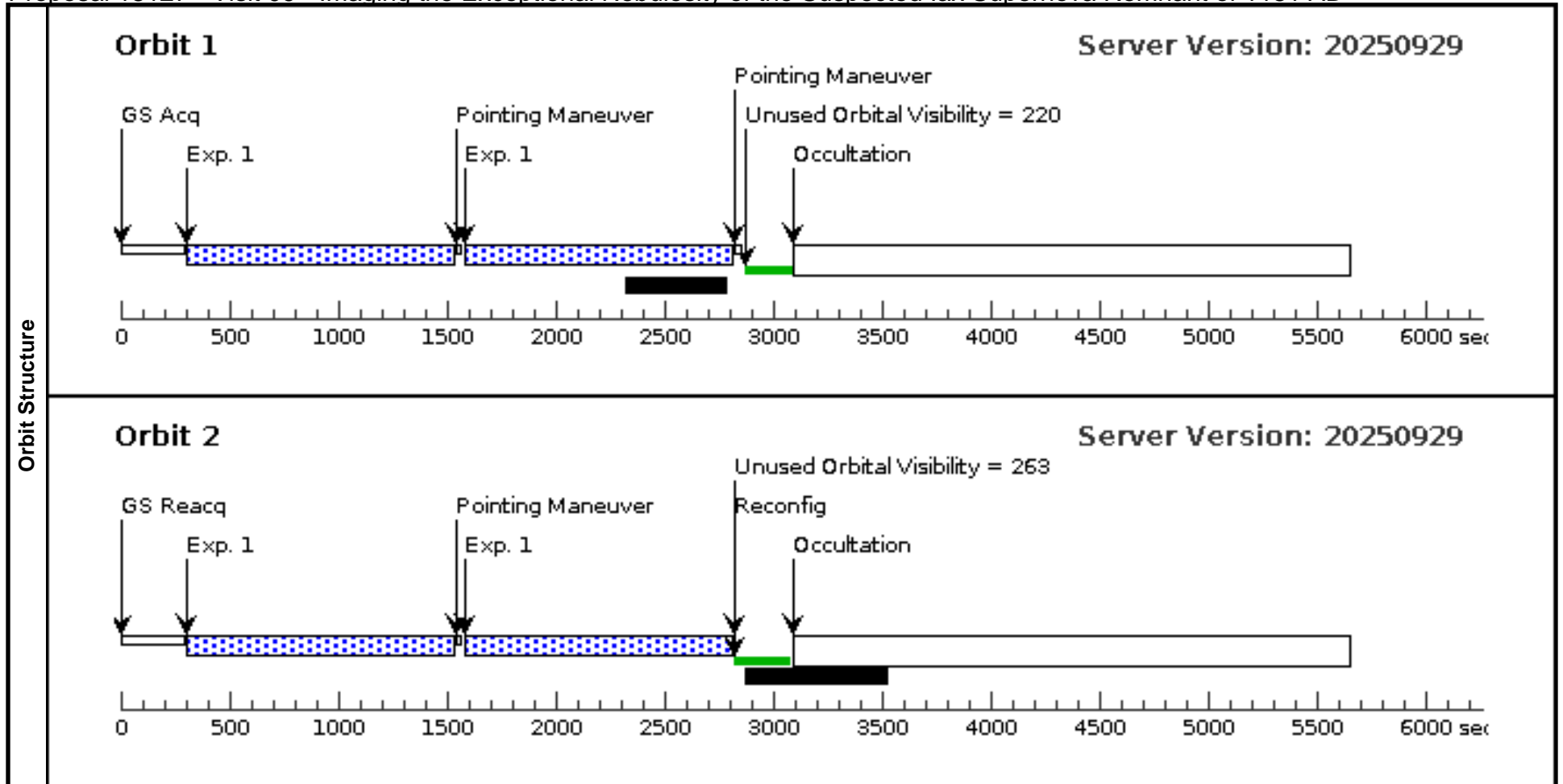
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Proposal 18127 - Visit 09 - Imaging the Exceptional Nebulosity of the Suspected Iax Supernova Remnant of 1181 AD

Fri Feb 13 14:00:18 GMT 2026

Visit	Proposal 18127, Visit 09, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
(2)		Pattern Type=WFC3-IR-DITHER-BOX-UVIS Purpose=DITHER Number Of Points=4 Point Spacing=23.02 Line Spacing=35.212	Coordinate Frame=POS-TARG Pattern Orientation=0.713 Angle Between Sides=89.287 Center Pattern=true						(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous				
	(5)	PA30-SE-A	RA: 00 53 18.4250 (13.3267708d) Dec: +67 29 17.80 (67.48828d) Equinox: J2000			V=21+/-0.5	Reference Frame: ICRS				
	Comments: Category=ISM Description=[EJECTA, EMISSION LINE NEBULA, SNR] Extended=YES										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(5) PA30-SE-A	WFC3/IR, MULTIACCUM, IR-FIX	F127M	NSAMP=13; SAMP-SEQ=SPAR S100	GS ACQ SCENARI ONEB103	Pattern 2, Exps 1-1 i n Visit 09 (2)		1202.936167 Secs (4811.745 Secs)		
									[=>(Pattern 1)]		[1]
									[=>(Pattern 2)]		[2]
								[=>(Pattern 3)]			
								[=>(Pattern 4)]			



Proposal 18127 - Visit 10 - Imaging the Exceptional Nebulosity of the Suspected Iax Supernova Remnant of 1181 AD

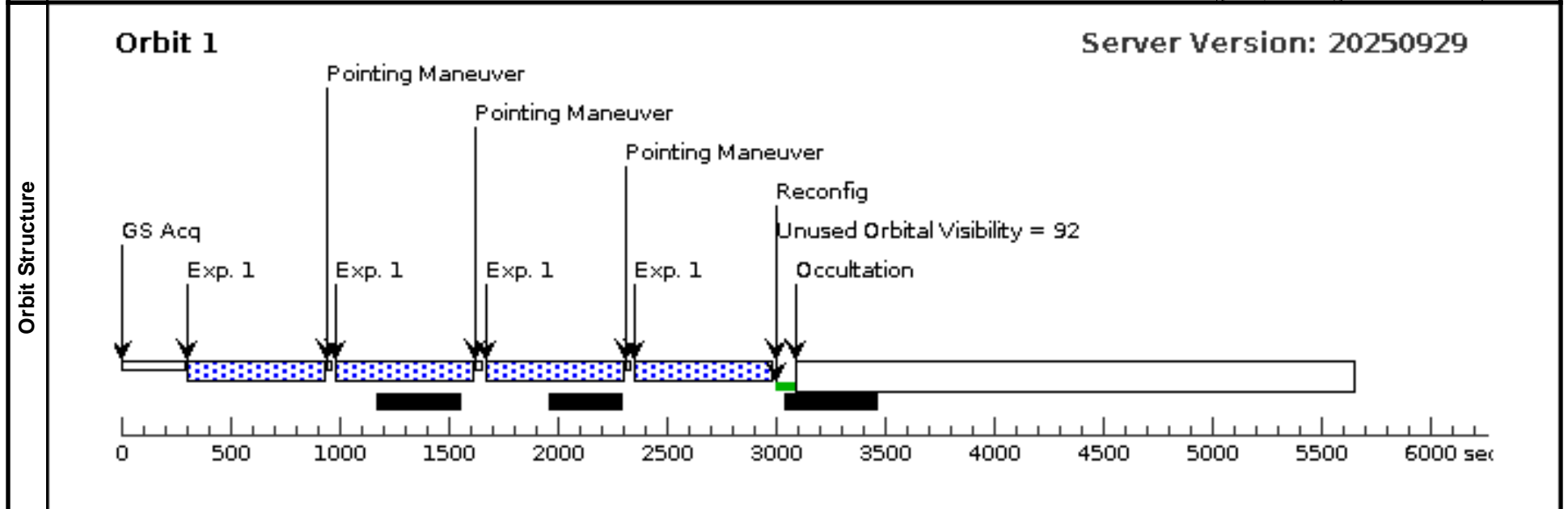
Fri Feb 13 14:00:18 GMT 2026

Visit	Proposal 18127, Visit 10, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	Pattern Type=WFC3-IR-DITHER-BOX-UVIS Purpose=DITHER Number Of Points=4 Point Spacing=23.02 Line Spacing=35.212	Coordinate Frame=POS-TARG Pattern Orientation=0.713 Angle Between Sides=89.287 Center Pattern=true	(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(7)	PA30-SW-A	RA: 00 53 3.5440 (13.2647667d) Dec: +67 29 17.77 (67.48827d) Equinox: J2000		V=21+/-0.5	Reference Frame: ICRS
	<i>Comments:</i> Category=ISM Description=[EJECTA, EMISSION LINE NEBULA, SNR] Extended=YES					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(7) PA30-SW-A	WFC3/IR, MULTIACCUM, IR-FIX	F098M	NSAMP=13; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O ONEB103	Pattern 2, Exps 1-1 i n Visit 10 (2)	602.937703 Secs (2411.751 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 18127 - Visit 11 - Imaging the Exceptional Nebulosity of the Suspected Iax Supernova Remnant of 1181 AD

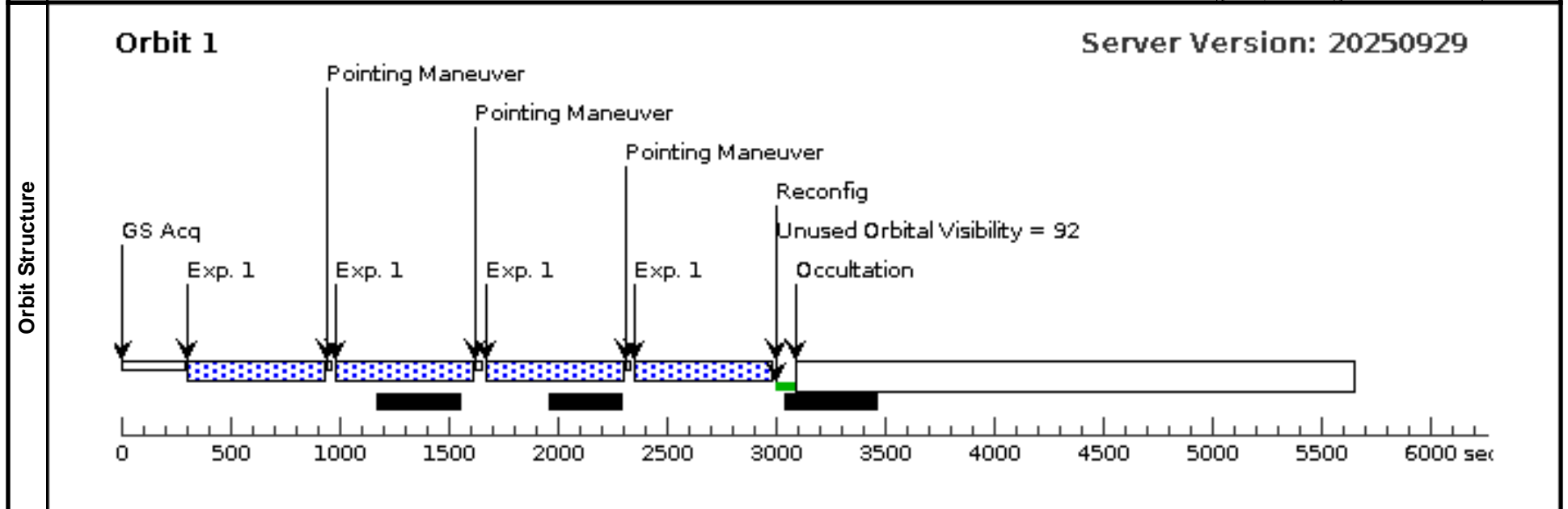
Fri Feb 13 14:00:18 GMT 2026

Visit	Proposal 18127, Visit 11, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	Pattern Type=WFC3-IR-DITHER-BOX-UVIS Purpose=DITHER Number Of Points=4 Point Spacing=23.02 Line Spacing=35.212	Coordinate Frame=POS-TARG Pattern Orientation=0.713 Angle Between Sides=89.287 Center Pattern=true	(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(8)	PA30-SW-B	RA: 00 53 0.3690 (13.2515375d) Dec: +67 29 17.90 (67.48831d) Equinox: J2000		V=21+/-0.5	Reference Frame: ICRS
	<i>Comments:</i> Category=ISM Description=[EJECTA, EMISSION LINE NEBULA, SNR] Extended=YES					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(8) PA30-SW-B	WFC3/IR, MULTIACCUM, IR-FIX	F098M	NSAMP=13; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O ONEB103	Pattern 2, Exps 1-1 i n Visit 11 (2)	602.937703 Secs (2411.751 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 18127 - Visit 12 - Imaging the Exceptional Nebulosity of the Suspected Iax Supernova Remnant of 1181 AD

Fri Feb 13 14:00:18 GMT 2026

Visit	Proposal 18127, Visit 12, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
(2)		Pattern Type=WFC3-IR-DITHER-BOX-UVIS Purpose=DITHER Number Of Points=4 Point Spacing=23.02 Line Spacing=35.212	Coordinate Frame=POS-TARG Pattern Orientation=0.713 Angle Between Sides=89.287 Center Pattern=true						(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous				
	(7)	PA30-SW-A	RA: 00 53 3.5440 (13.2647667d) Dec: +67 29 17.77 (67.48827d) Equinox: J2000			V=21+/-0.5	Reference Frame: ICRS				
	<i>Comments:</i> Category=ISM Description=[EJECTA, EMISSION LINE NEBULA, SNR] Extended=YES										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(7) PA30-SW-A	WFC3/IR, MULTIACCUM, IR-FIX	F127M	NSAMP=13; SAMP-SEQ=SPAR S100	GS ACQ SCENARI O ONEB103	Pattern 2, Exps 1-1 i n Visit 12 (2)		1202.936167 Secs (4811.745 Secs)		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		[2]
								[==>(Pattern 3)]			
								[==>(Pattern 4)]			

