



18403 - Searching for connections between Jupiter Trojans and the Plutino population: where are the Neptune Trojan binary systems?

Cycle: 34, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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Dr. Bryan Jason Holler (CoI)	Space Telescope Science Institute
Dra. Flavia Luane Rommel (CoI)	University of Central Florida Board of Trustees
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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) 2013KY18	WFC3/UVIS	1	13-Aug-2026 12:00:36.0	yes
02	(2) 2015VV165	WFC3/UVIS	1	13-Aug-2026 12:00:37.0	yes
03	(3) 2013RC158	WFC3/UVIS	1	13-Aug-2026 12:00:37.0	yes
04	(4) 2004KV18	WFC3/UVIS	1	13-Aug-2026 12:00:38.0	yes
05	(5) 2012UV177	WFC3/UVIS	1	13-Aug-2026 12:00:38.0	yes
06	(6) 2013RL124	WFC3/UVIS	1	13-Aug-2026 12:00:39.0	yes
07	(7) 2014YB92	WFC3/UVIS	1	13-Aug-2026 12:00:39.0	yes
08	(8) 2010TT191	WFC3/UVIS	1	13-Aug-2026 12:00:39.0	yes
09	(9) 2015VW165	WFC3/UVIS	1	13-Aug-2026 12:00:40.0	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>
10	(10) 2013TZ187	WFC3/UVIS	1	13-Aug-2026 12:00:40.0	yes
11	(11) 2013VX30	WFC3/UVIS	1	13-Aug-2026 12:00:41.0	yes
12	(12) 2011HM102	WFC3/UVIS	1	13-Aug-2026 12:00:41.0	yes
13	(13) 2010TS191	WFC3/UVIS	1	13-Aug-2026 12:00:41.0	yes
14	(14) 2011SO277	WFC3/UVIS	1	13-Aug-2026 12:00:42.0	yes
15	(15) 2011WG157	WFC3/UVIS	1	13-Aug-2026 12:00:42.0	yes
16	(16) 2015VU207	WFC3/UVIS	1	13-Aug-2026 12:00:43.0	yes
17	(17) 2008LC18	WFC3/UVIS	1	13-Aug-2026 12:00:43.0	yes
18	(18) 2014SC374	WFC3/UVIS	1	13-Aug-2026 12:00:44.0	yes
19	(19) 2014RO74	WFC3/UVIS	1	13-Aug-2026 12:00:44.0	yes
20	(20) 2012UD185	WFC3/UVIS	1	13-Aug-2026 12:00:45.0	yes

20 Total Orbits Used

ABSTRACT

In this proposal, we aim to look for Neptune Trojans binary systems using the WFC3/UVIS and the F350LP extra-broadband filter. So far, no Neptune Trojan binaries have ever been discovered. This is in contrast to all other populations of minor bodies in the solar system, which all support multiple binary systems. From the last search for Neptune Trojan binaries to the present day, the population has increased by almost 50% in size. Constraining some binary system properties such as relative size, separation, and density could tell us about the formation mechanisms of the pair and shed light on the processes that occurred in the early phases of our planetary system that shaped the outer solar system. Dynamical simulations show that up to 80% of the fictitious Neptune Trojan survivors have very tight circular binaries. In that case, Hubble's capabilities surpass all other ground-based facilities to search for binary pairs in the Neptune trojans population for its ability to observe faint targets and its high-resolution power, both necessary for addressing this task.

OBSERVING DESCRIPTION

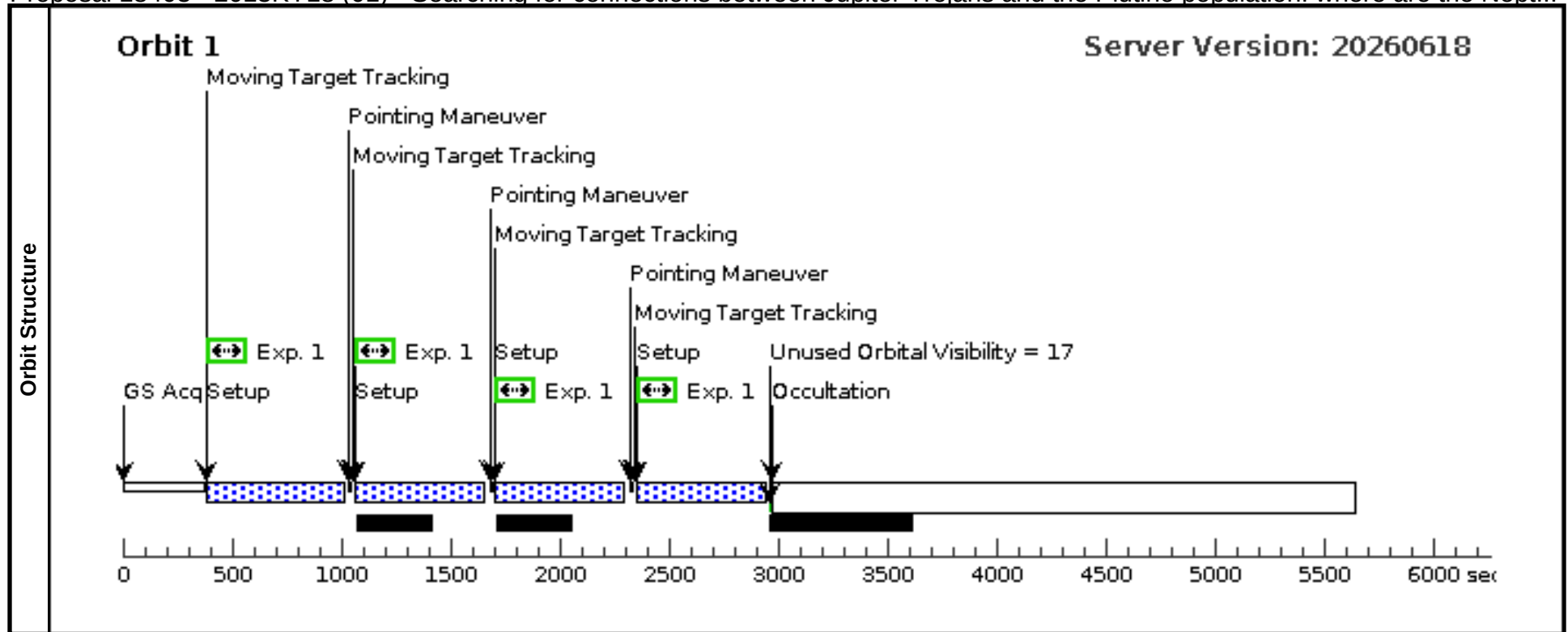
In this proposal, we aim to observe 20 Neptune Trojans (NTs) using the WFC3/UVIS instrument. We will use the F350LP spectral element with the UVIS2 aperture. We selected the WFC3-UVIS-DITHER-BOX pattern, with an exposure time of 481 seconds per exposure.

Proposal 18403 (STScI Edit Number: 0, Created: Thursday, August 13, 2026, 11:00:45AM Eastern Standard Time) - Overview

The primary scientific goal of these observations is to search for binary systems within the Neptune Trojan population. The targets are relatively faint, with V magnitudes ranging from 21.5 to 24.0.

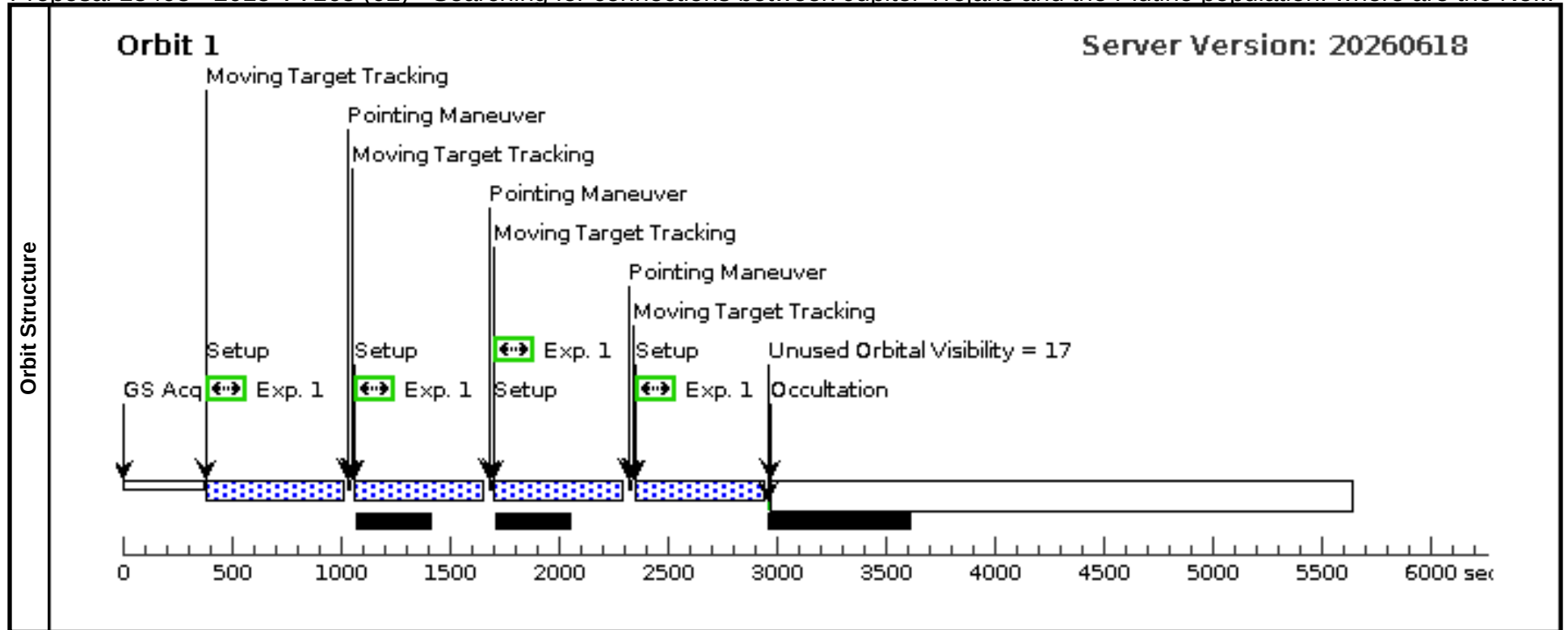
Proposal 18403 - 2013KY18 (01) - Searching for connections between Jupiter Trojans and the Plutino population: where are the Nept...

Visit	Proposal 18403, 2013KY18 (01)										Thu Aug 13 16:00:45 GMT 2026			
	Diagnostic Status: Informational													
	Scientific Instruments: WFC3/UVIS													
	Special Requirements: (none)													
Diagnostics	(2013KY18 (01)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.													
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)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center							
	(1)	2013KY18	TYPE=ASTEROID,A=30.03520038037956,E=0.1201246864331554,I=6.669211165656861,O=84.42003367302662,W=272.7503169032401,M=294.15562237862,EQUINOX=J2000,EPOCH=09-JUN-2026:00:00:00,EpochTimeScale=TDB					EARTH						
Comments: Description=NT Extended=NO														
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]			Orbit		
	1		(1) 2013KY18	WFC3/UVIS, ACCUM, UVIS2	F350LP			Pattern 1, Exps 1-1 in 2013KY18 (01) (1)	481 Secs (1924 Secs)					
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]			[1]		



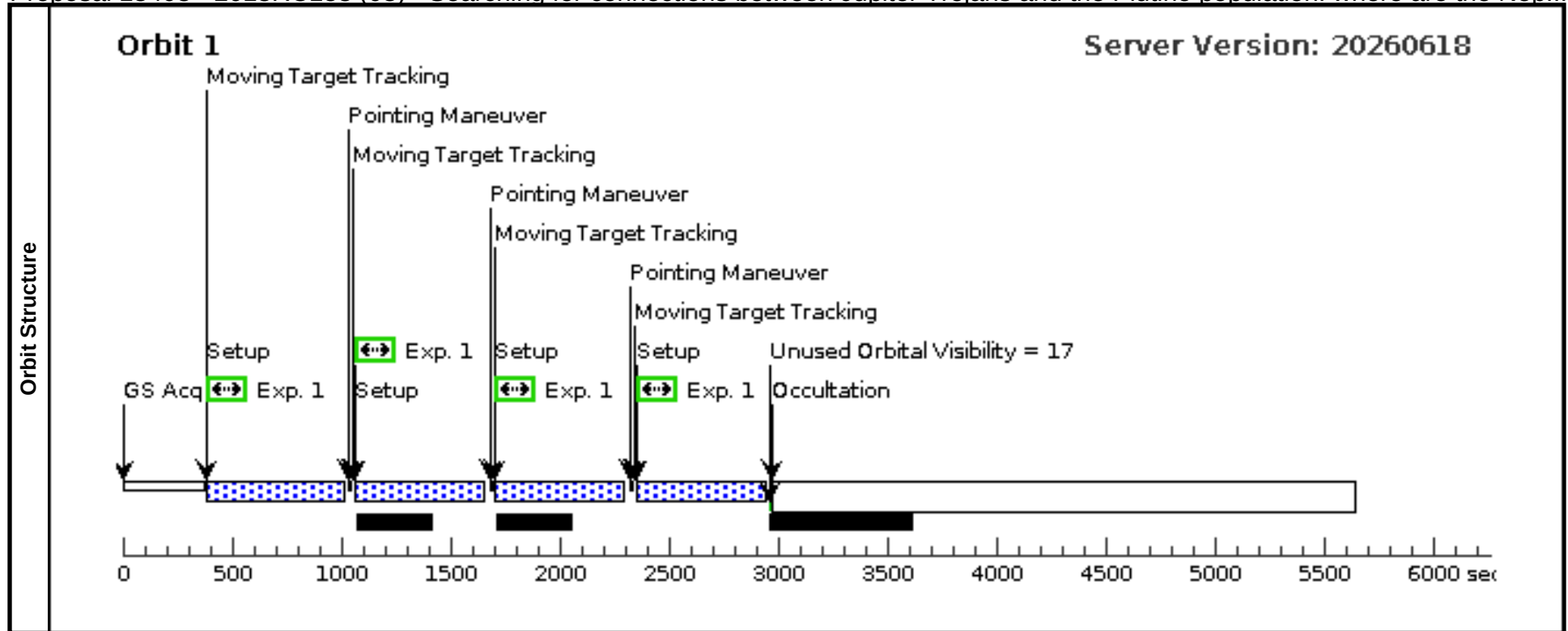
Proposal 18403 - 2015 VV165 (02) - Searching for connections between Jupiter Trojans and the Plutino population: where are the Ne...

Visit	Proposal 18403, 2015 VV165 (02)										Thu Aug 13 16:00:45 GMT 2026			
	Diagnostic Status: Informational													
	Scientific Instruments: WFC3/UVIS													
	Special Requirements: (none)													
Diagnostics	(2015 VV165 (02)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.													
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)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center							
	(2)	2015VV165	TYPE=ASTEROID,A=30.26860876175482,E=0.05403329320423356,I=4.990953209837057,O=78.93629397818012,W=60.38012502748563,M=297.3889352800153,EQUINOX=J2000,EPOC H=09-JUN-2026:00:00:00,EpochTimeScale=TDB					EARTH						
	Comments: Description=NT Extended=NO													
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]			Orbit		
	1		(2) 2015VV165	WFC3/UVIS, ACCUM, UVIS2	F350LP			Pattern 1, Exps 1-1 in 2015 VV165 (02) (1)	481 Secs (1924 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]			[1]		



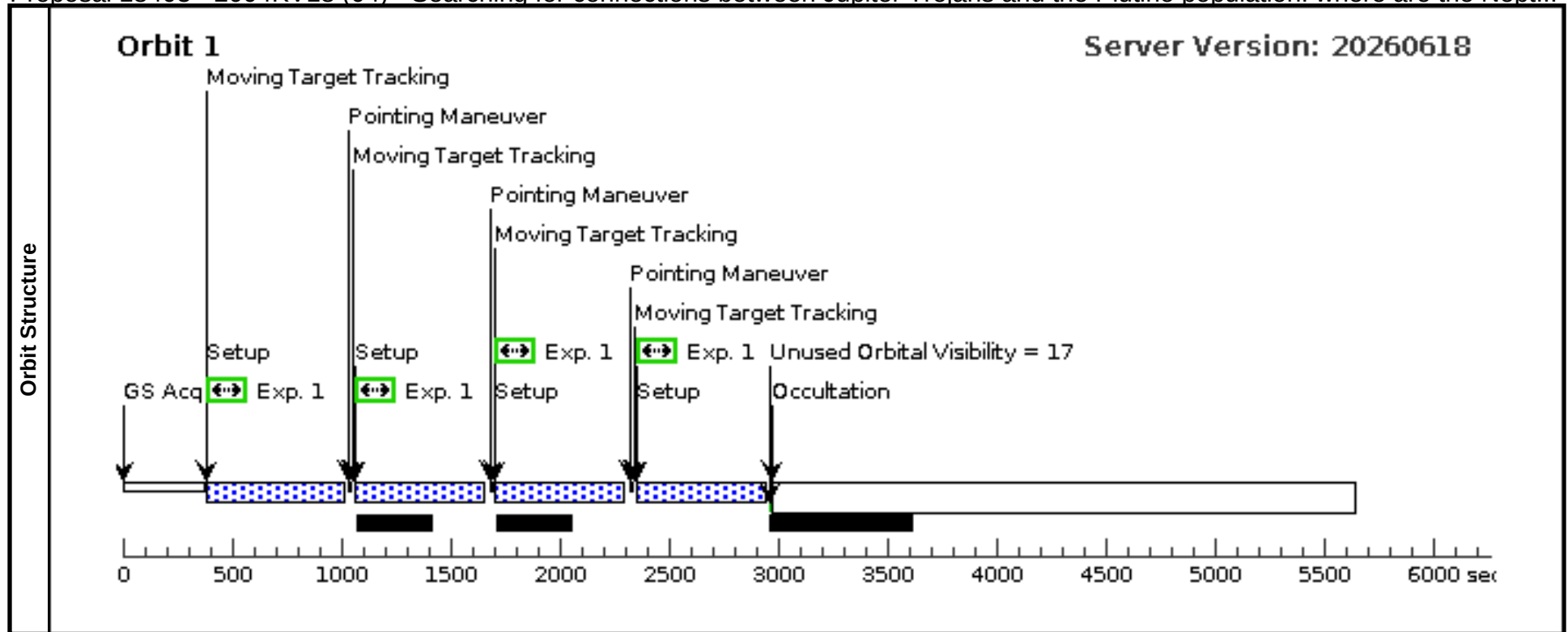
Proposal 18403 - 2013RC158 (03) - Searching for connections between Jupiter Trojans and the Plutino population: where are the Nep...

Visit	Proposal 18403, 2013RC158 (03)										Thu Aug 13 16:00:45 GMT 2026			
	Diagnostic Status: Informational													
	Scientific Instruments: WFC3/UVIS													
	Special Requirements: (none)													
Diagnostics	(2013RC158 (03)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.													
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)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center							
	(3)	2013RC158	TYPE=ASTEROID,A=30.1700483766 3804,E=0.05700097949015118,I=7.44 0391331206047,O=81.6124749200226 2,W=81.99202714598987,M=244.960 6679584619,EQUINOX=J2000,EPOC H=09-JUN- 2026:00:00:00,EpochTimeScale=TDB					EARTH						
	Comments: Description=NT Extended=NO													
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]			Orbit		
	1	2013 RC158	(3) 2013RC158	WFC3/UVIS, ACCUM, UVIS2	F350LP			Pattern 1, Exps 1-1 in 2013RC158 (03) (1)	481 Secs (1924 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]			[1]		



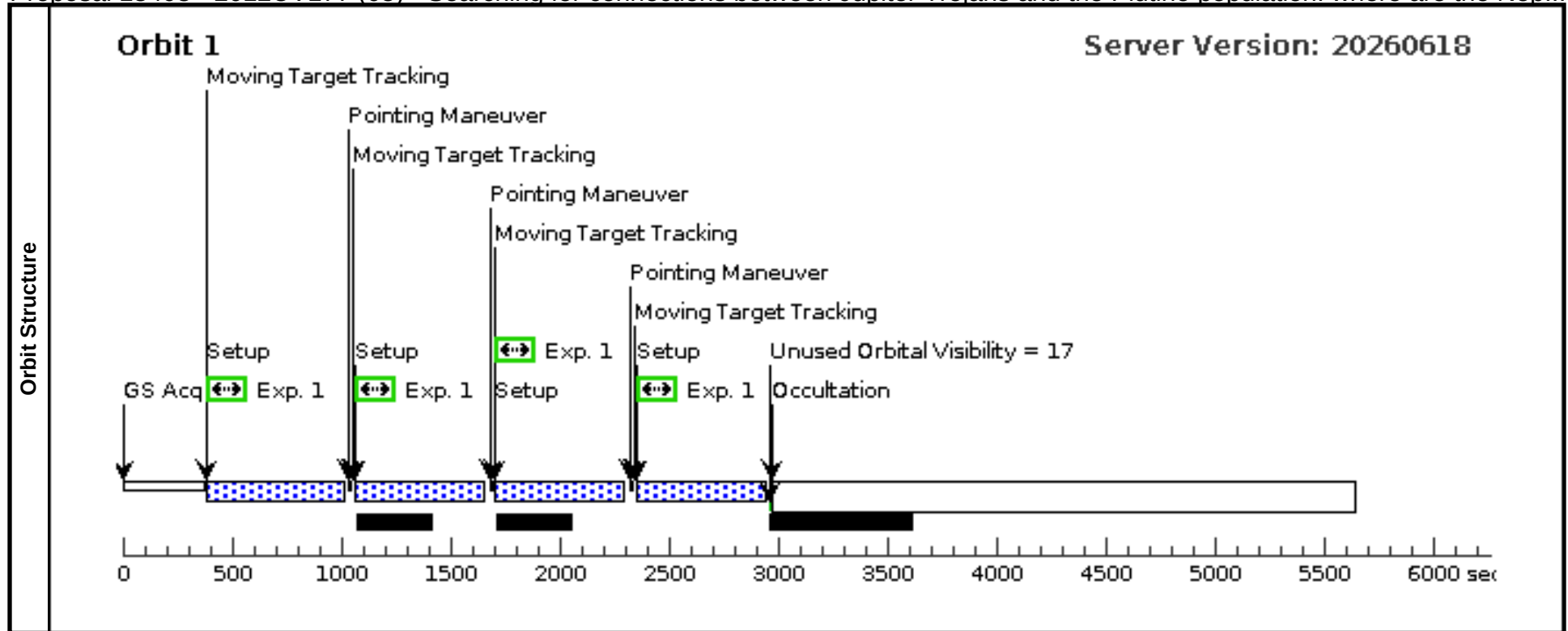
Proposal 18403 - 2004KV18 (04) - Searching for connections between Jupiter Trojans and the Plutino population: where are the Nept...

Visit	Proposal 18403, 2004KV18 (04)										Thu Aug 13 16:00:45 GMT 2026	
	Diagnostic Status: Informational											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Diagnostics	(2004KV18 (04)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.											
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)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center					
	(4)	2004KV18	TYPE=ASTEROID,A=30.0995095373 6908,E=0.186643191034484,I=13.601 69050909116,O=235.6660169713218, W=293.9978743634241,M=91.040313 22815331,EQUINOX=J2000,EPOCH =09-JUN- 2026:00:00:00,EpochTimeScale=TDB				EARTH					
	Comments: Description=NT Extended=NO											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(4) 2004KV18	WFC3/UVIS, ACCUM, UVIS2	F350LP			Pattern 1, Exps 1-1 in 2004KV18 (04) (1)	481 Secs (1924 Secs)			
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]		



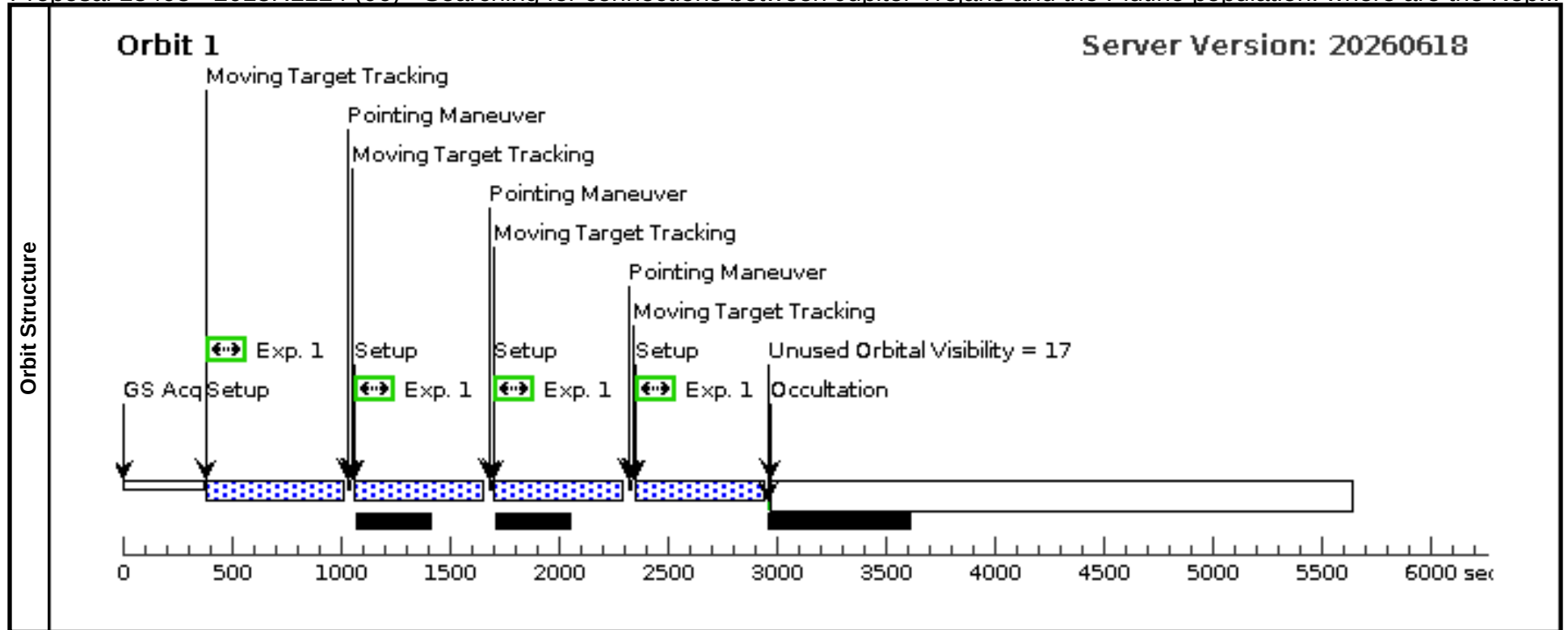
Proposal 18403 - 2012UV177 (05) - Searching for connections between Jupiter Trojans and the Plutino population: where are the Nep...

Visit	Proposal 18403, 2012UV177 (05)										Thu Aug 13 16:00:45 GMT 2026	
	Diagnostic Status: Informational											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Diagnostics	(2012UV177 (05)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.											
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)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center					
	(5)	2012UV177	TYPE=ASTEROID,A=30.1788047154 5387,E=0.07662120358121882,I=20.7 9684495251138,O=265.704597562648 4,W=202.542335411602,M=320.1045 320278642,EQUINOX=J2000,EPOCH=09-JUN- 2026:00:00:00,EpochTimeScale=TDB					EARTH				
	Comments: Description=NT Extended=NO											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(5) 2012UV177	WFC3/UVIS, ACCUM, UVIS2	F350LP			Pattern 1, Exps 1-1 in 2012UV177 (05) (1)	481 Secs (1924 Secs)			
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]	



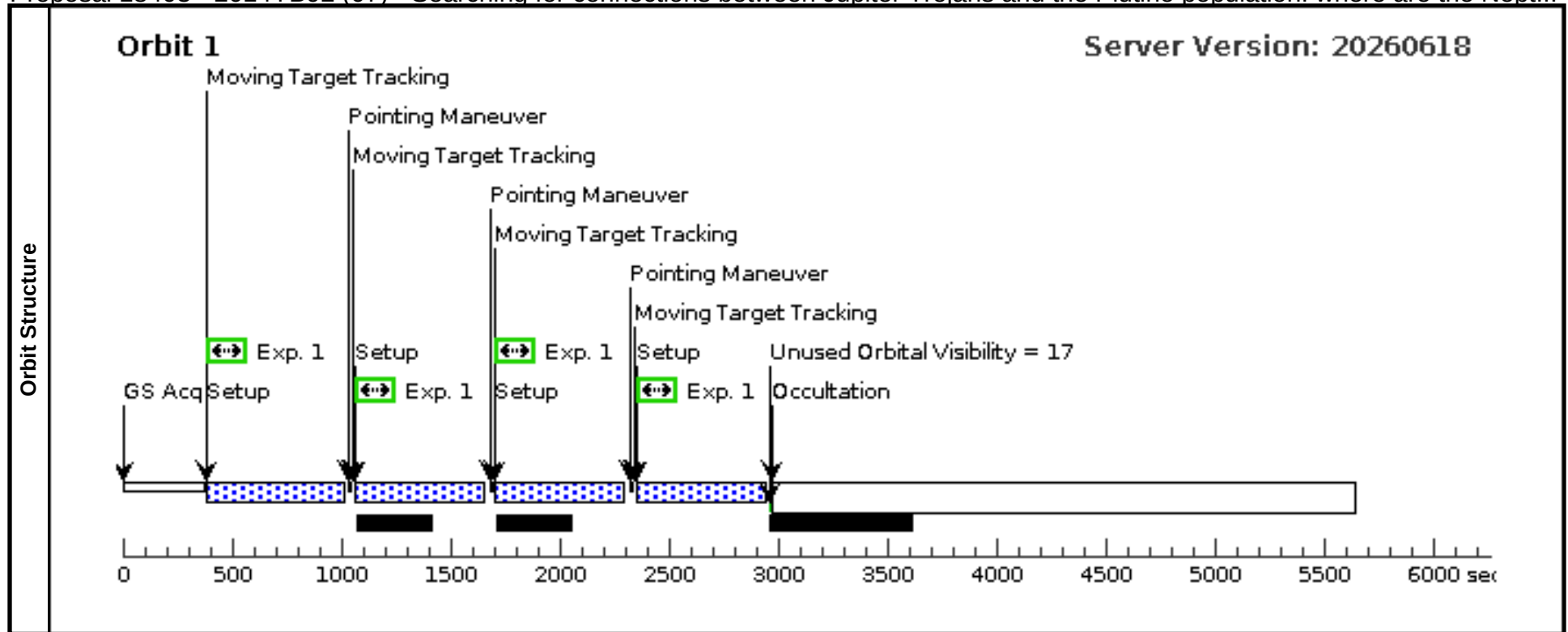
Proposal 18403 - 2013RL124 (06) - Searching for connections between Jupiter Trojans and the Plutino population: where are the Nep...

Visit	Proposal 18403, 2013RL124 (06)										Thu Aug 13 16:00:45 GMT 2026	
	Diagnostic Status: Informational											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Diagnostics	(2013RL124 (06)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.											
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)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center					
	(6)	2013RL124	TYPE=ASTEROID,A=30.1985787597 2479,E=0.02795867572008314,I=10.1 3914566702059,O=166.921441926473 5,W=247.2229453495333,M=355.140 9989256138,EQUINOX=J2000,EPOC H=09-JUN- 2026:00:00:00,EpochTimeScale=TDB	EARTH								
	Comments: Description=NT Extended=NO											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	2013RL124	(6) 2013RL124	WFC3/UVIS, ACCUM, UVIS2	F350LP			Pattern 1, Exps 1-1 in 2013RL124 (06) (1)	481 Secs (1924 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]	



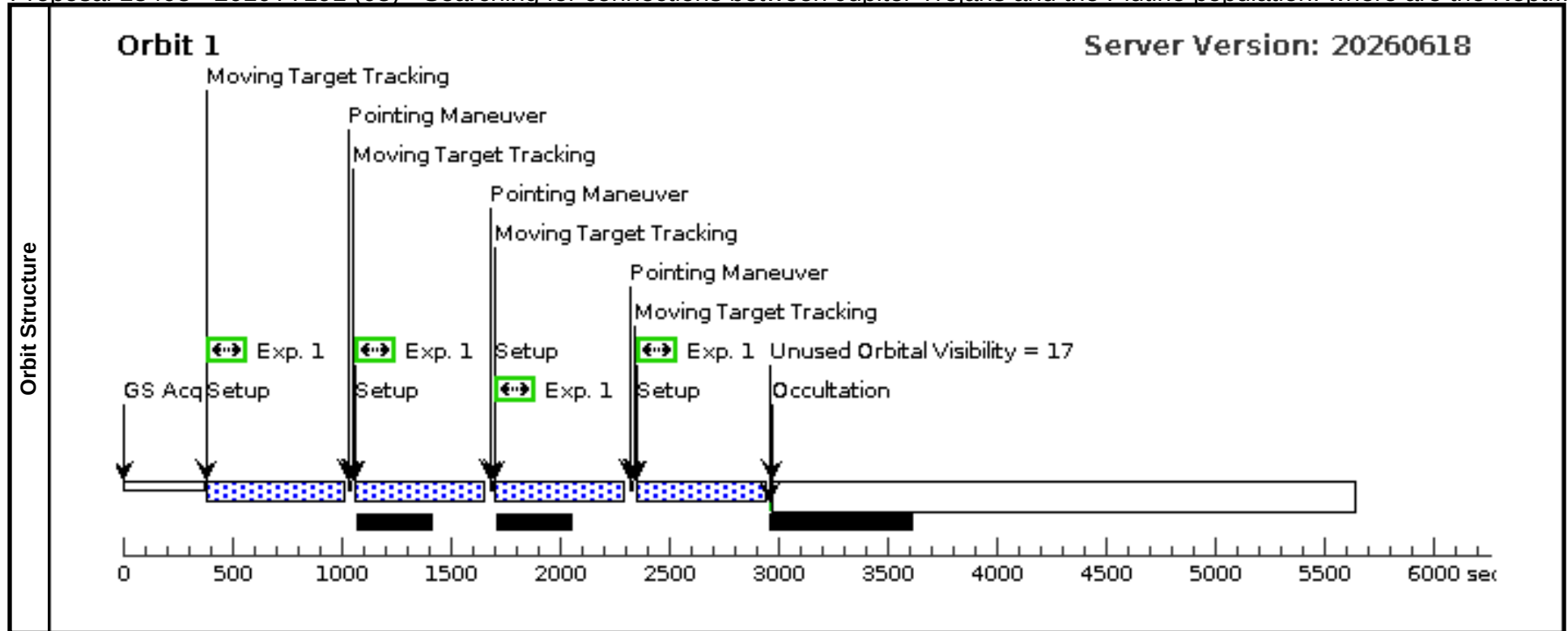
Proposal 18403 - 2014YB92 (07) - Searching for connections between Jupiter Trojans and the Plutino population: where are the Nept...

Visit	Proposal 18403, 2014YB92 (07)										Thu Aug 13 16:00:45 GMT 2026			
	Diagnostic Status: Informational													
	Scientific Instruments: WFC3/UVIS													
	Special Requirements: (none)													
Diagnostics	(2014YB92 (07)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.													
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)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center							
	(7)	2014YB92	TYPE=ASTEROID,A=30.2770772394 9801,E=0.1022503117403912,I=30.76 812902937943,O=101.0705658711696 ,W=44.63306655652843,M=275.2694 752126735,EQUINOX=J2000,EPOCH=09-JUN-2026:00:00:00,EpochTimeScale=TDB				EARTH							
	Comments: Description=NT Extended=NO													
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]			Orbit		
	1	2014YB92	(7) 2014YB92	WFC3/UVIS, ACCUM, UVIS2	F350LP			Pattern 1, Exps 1-1 in 2014YB92 (07) (1)	481 Secs (1924 Secs)					
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]			[1]		



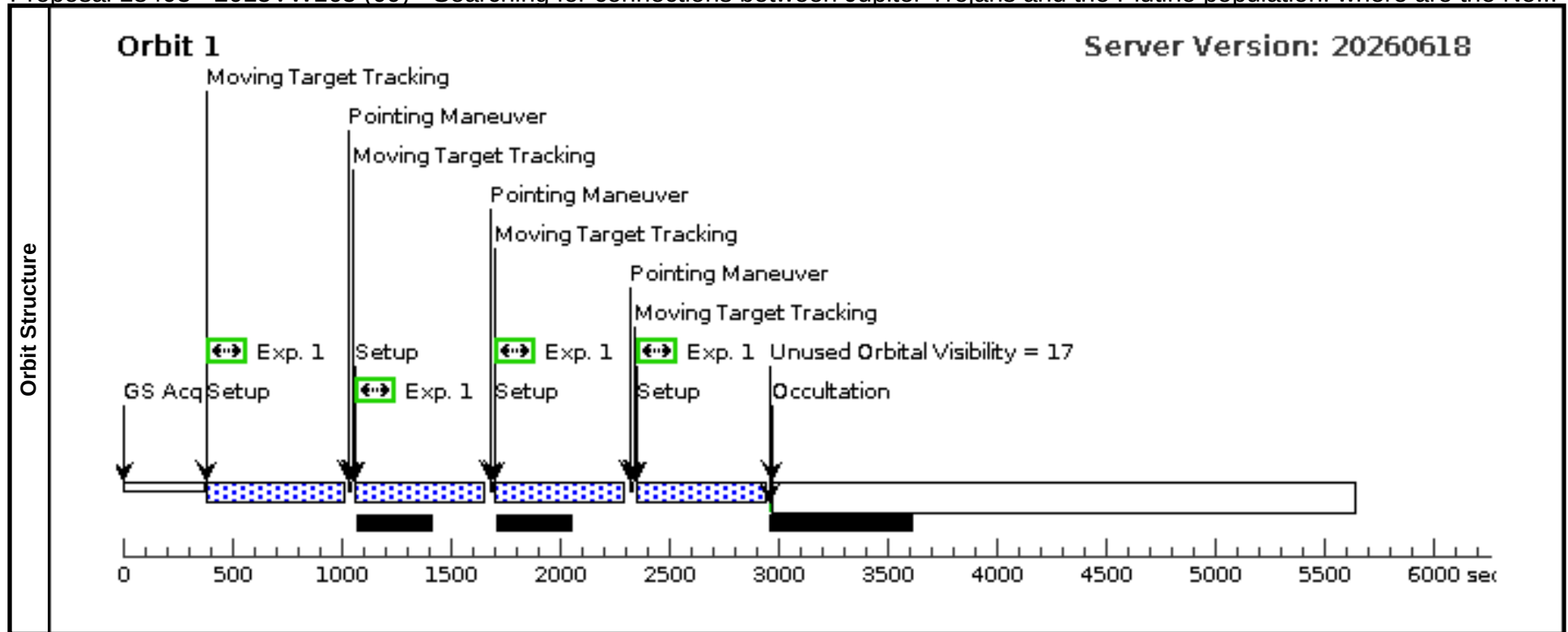
Proposal 18403 - 2010TT191 (08) - Searching for connections between Jupiter Trojans and the Plutino population: where are the Nept...

Visit	Proposal 18403, 2010TT191 (08)										Thu Aug 13 16:00:45 GMT 2026		
	Diagnostic Status: Informational												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: (none)												
Diagnostics	(2010TT191 (08)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Patterns	#	Primary Pattern					Secondary Pattern				Exposures		
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX		Coordinate Frame=POS-TARG							(1)		
Purpose=DITHER		Pattern Orientation=23.884											
Number Of Points=4		Angle Between Sides=81.785											
Point Spacing=0.173		Center Pattern=false											
Line Spacing=0.112													
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center						
	(8)	2010TT191	TYPE=ASTEROID,A=30.2501386575 6542,E=0.0648897280715544,I=4.265 654270256887,O=249.2572568713284 ,W=6.393529164669415,M=188.8873 405881374,EQUINOX=J2000,EPOCH =09-JUN- 2026:00:00:00,EpochTimeScale=TDB									EARTH	
	Comments: Description=NT Extended=NO												
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1		(8) 2010TT191	WFC3/UVIS, ACCUM, UVIS2	F350LP			Pattern 1, Exps 1-1 in 2010TT191 (08) (1)	481 Secs (1924 Secs)				
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]		



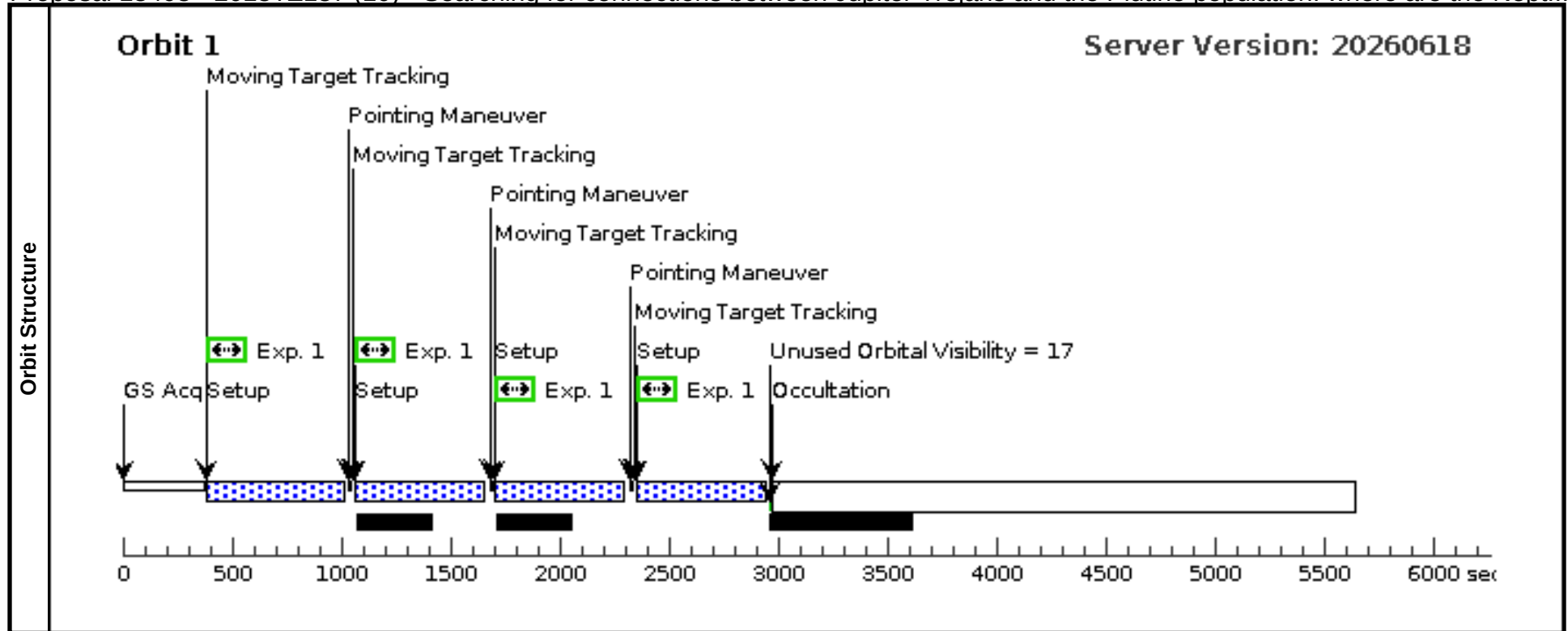
Proposal 18403 - 2015VW165 (09) - Searching for connections between Jupiter Trojans and the Plutino population: where are the Ne...

Visit	Proposal 18403, 2015VW165 (09)										Thu Aug 13 16:00:45 GMT 2026			
	Diagnostic Status: Informational													
	Scientific Instruments: WFC3/UVIS													
	Special Requirements: (none)													
Diagnostics	(2015VW165 (09)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.													
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)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center							
	(9)	2015VW165	TYPE=ASTEROID,A=30.26860876175482,E=0.05403329320423356,I=4.990953209837057,O=78.93629397818012,W=60.38012502748563,M=297.3889352800153,EQUINOX=J2000,EPOC H=09-JUN-2026:00:00:00,EpochTimeScale=TDB				EARTH							
	Comments: Description=NT Extended=NO													
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]			Orbit		
	1		(9) 2015VW165	WFC3/UVIS, ACCUM, UVIS2	F350LP			Pattern 1, Exps 1-1 in 2015VW165 (09) (1)	481 Secs (1924 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]			[1]		



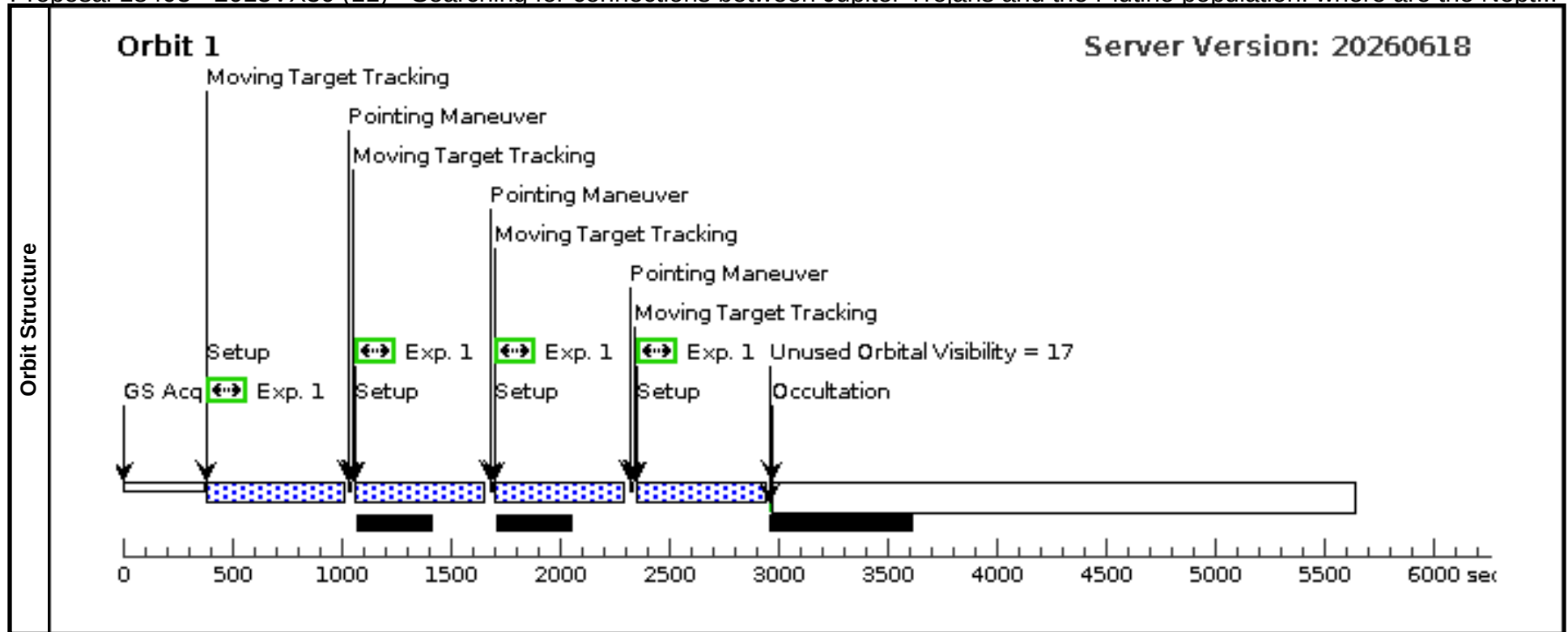
Proposal 18403 - 2013TZ187 (10) - Searching for connections between Jupiter Trojans and the Plutino population: where are the Nept...

Visit	Proposal 18403, 2013TZ187 (10)										Thu Aug 13 16:00:45 GMT 2026	
	Diagnostic Status: Informational											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Diagnostics	(2013TZ187 (10)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.											
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)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center					
	(10)	2013TZ187	TYPE=ASTEROID,A=30.2626124154 9185,E=0.0701372094825515,I=13.15 812374827581,O=155.6297093925156 ,W=355.2152947848249,M=268.2205 625045581,EQUINOX=J2000,EPOCH=09-JUN-2026:00:00:00,EpochTimeScale=TDB								EARTH	
	Comments: Description=NT Extended=NO											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(10) 2013TZ187	WFC3/UVIS, ACCUM, UVIS2	F350LP			Pattern 1, Exps 1-1 in 2013TZ187 (10) (1)	481 Secs (1924 Secs)			
									[==>(Pattern 1)]		[1]	
									[==>(Pattern 2)]			
								[==>(Pattern 3)]				
									[==>(Pattern 4)]			



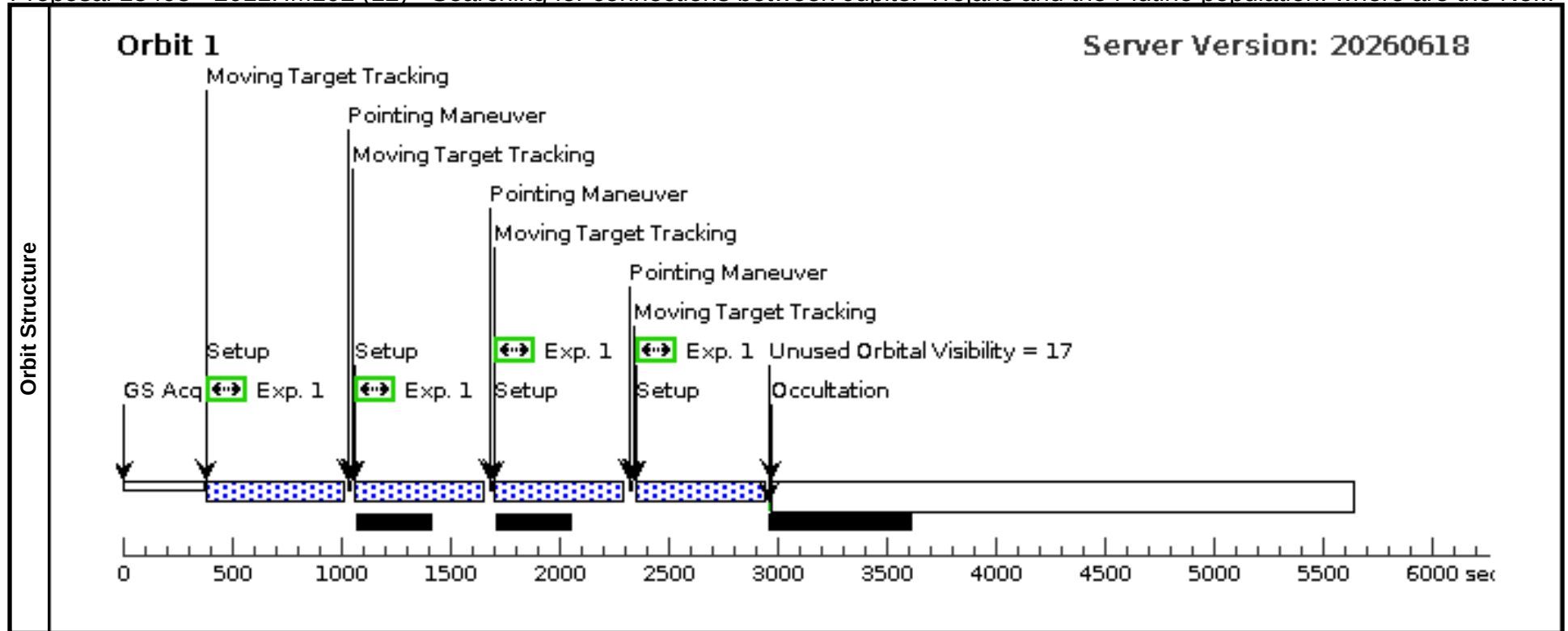
Proposal 18403 - 2013VX30 (11) - Searching for connections between Jupiter Trojans and the Plutino population: where are the Nept...

Visit	Proposal 18403, 2013VX30 (11)										Thu Aug 13 16:00:45 GMT 2026			
	Diagnostic Status: Informational													
	Scientific Instruments: WFC3/UVIS													
	Special Requirements: (none)													
Diagnostics	(2013VX30 (11)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.													
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)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center							
	(11)	2013VX30	TYPE=ASTEROID,A=30.2535454264 7056,E=0.08808689620637511,I=31.2 5276808052377,O=192.541069665561 5,W=217.3357931306717,M=13.8346 3570858295,EQUINOX=J2000,EPOC H=09-JUN- 2026:00:00:00,EpochTimeScale=TDB										EARTH	
	Comments: Description=NT Extended=NO													
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]			Orbit		
	1		(11) 2013VX30	WFC3/UVIS, ACCUM, UVIS2	F350LP			Pattern 1, Exps 1-1 in 2013VX30 (11) (1)	481 Secs (1924 Secs)					
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]			[1]		



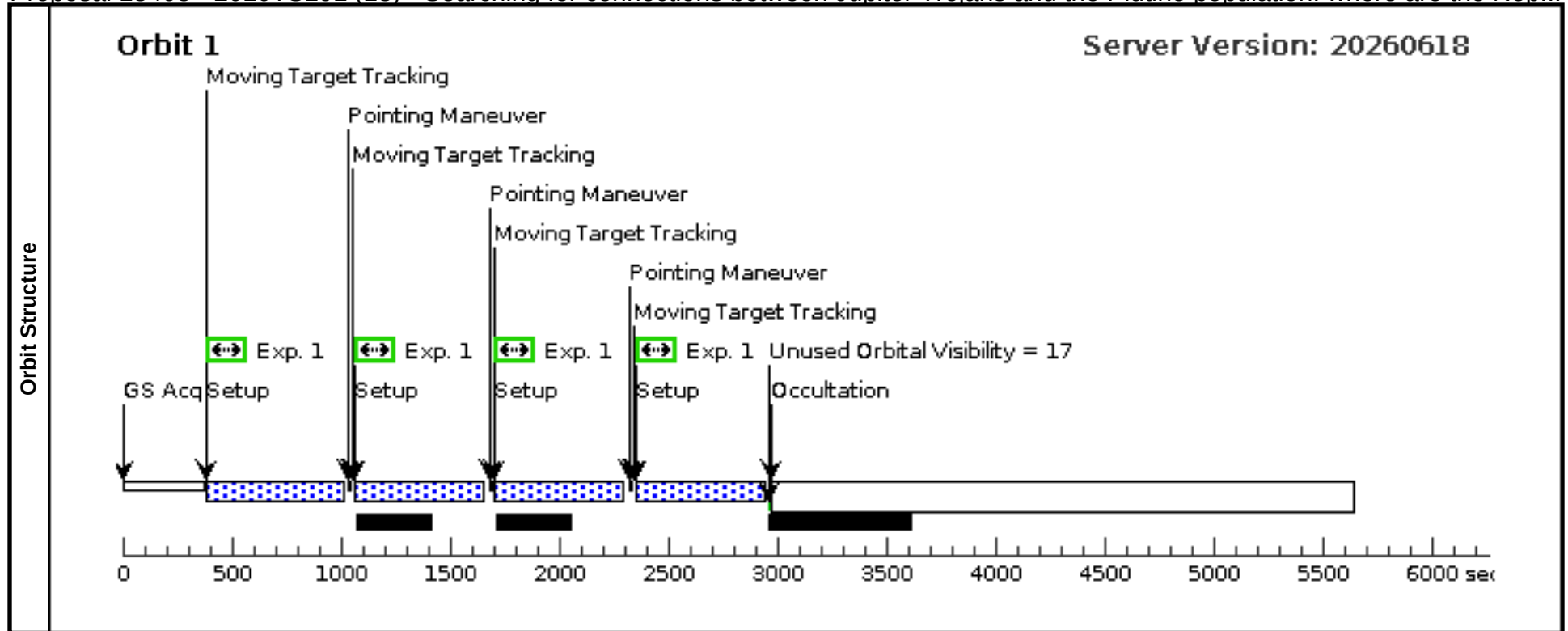
Proposal 18403 - 2011HM102 (12) - Searching for connections between Jupiter Trojans and the Plutino population: where are the Ne...

Visit	Proposal 18403, 2011HM102 (12)										Thu Aug 13 16:00:45 GMT 2026			
	Diagnostic Status: Informational													
	Scientific Instruments: WFC3/UVIS													
	Special Requirements: (none)													
Diagnostics	(2011HM102 (12)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.													
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)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center							
	(12)	2011HM102	TYPE=ASTEROID,A=30.03587062770251,E=0.07863920642051346,I=29.42401619118728,O=101.0518327293203,W=151.0194024078593,M=53.31418799793028,EQUINOX=J2000,EPOC H=09-JUN-2026:00:00:00,EpochTimeScale=TDB				EARTH							
	Comments: Description=NT Extended=NO													
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]			Orbit		
	1		(12) 2011HM102	WFC3/UVIS, ACCUM, UVIS2	F350LP			Pattern 1, Exps 1-1 in 2011HM102 (12) (1)	481 Secs (1924 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]			[1]		



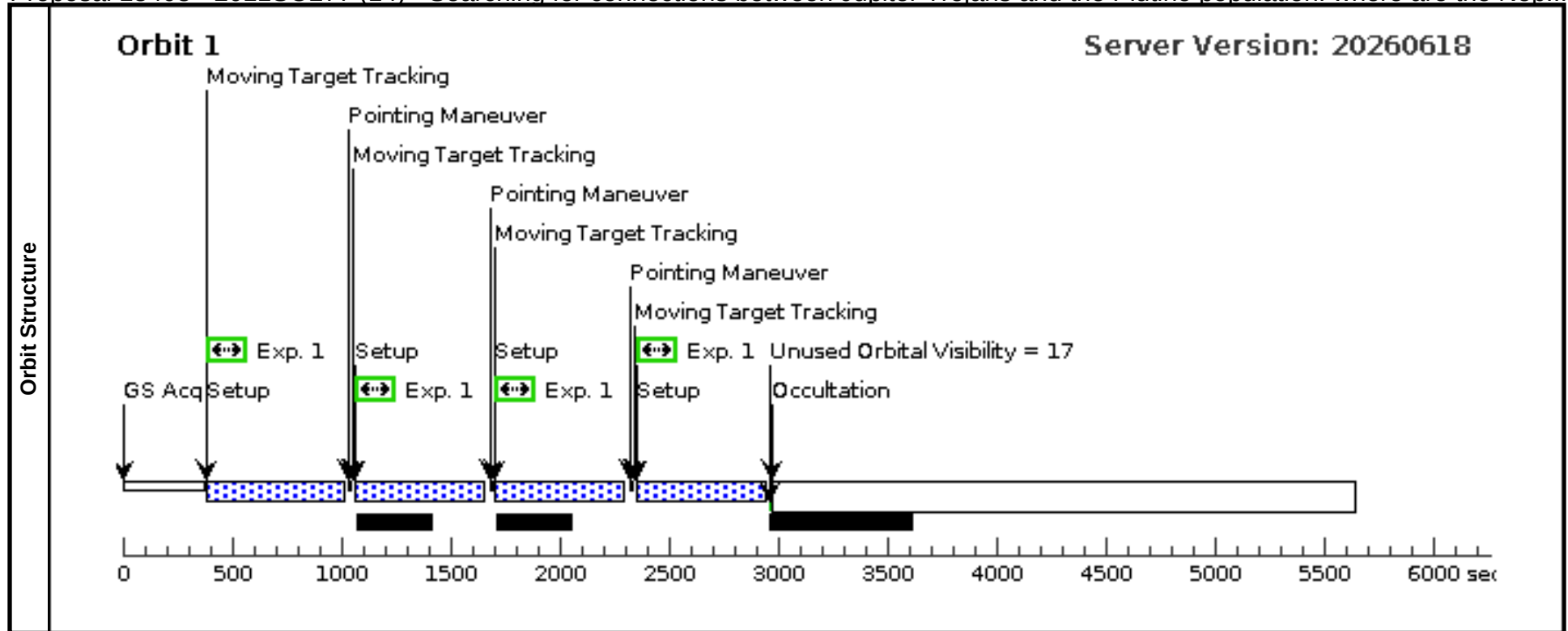
Proposal 18403 - 2010TS191 (13) - Searching for connections between Jupiter Trojans and the Plutino population: where are the Nep...

Visit	Proposal 18403, 2010TS191 (13)										Thu Aug 13 16:00:45 GMT 2026
	Diagnostic Status: Informational										
	Scientific Instruments: WFC3/UVIS										
	Special Requirements: (none)										
Diagnostics	(2010TS191 (13)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.										
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)			
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center				
	(13)	2010TS191	TYPE=ASTEROID,A=30.1811966375118,E=0.05107908098368812,I=6.557613059327421,O=129.653378834641,W=301.2140453374641,M=1.79514189428237,EQUINOX=J2000,EPOCH=09-JUN-2026:00:00:00,EpochTimeScale=TDB							EARTH	
	Comments: Description=NT Extended=NO										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1		(13) 2010TS191	WFC3/UVIS, ACCUM, UVIS2	F350LP			Pattern 1, Exps 1-1 in 2010TS191 (13) (1)	481 Secs (1924 Secs)		
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]	



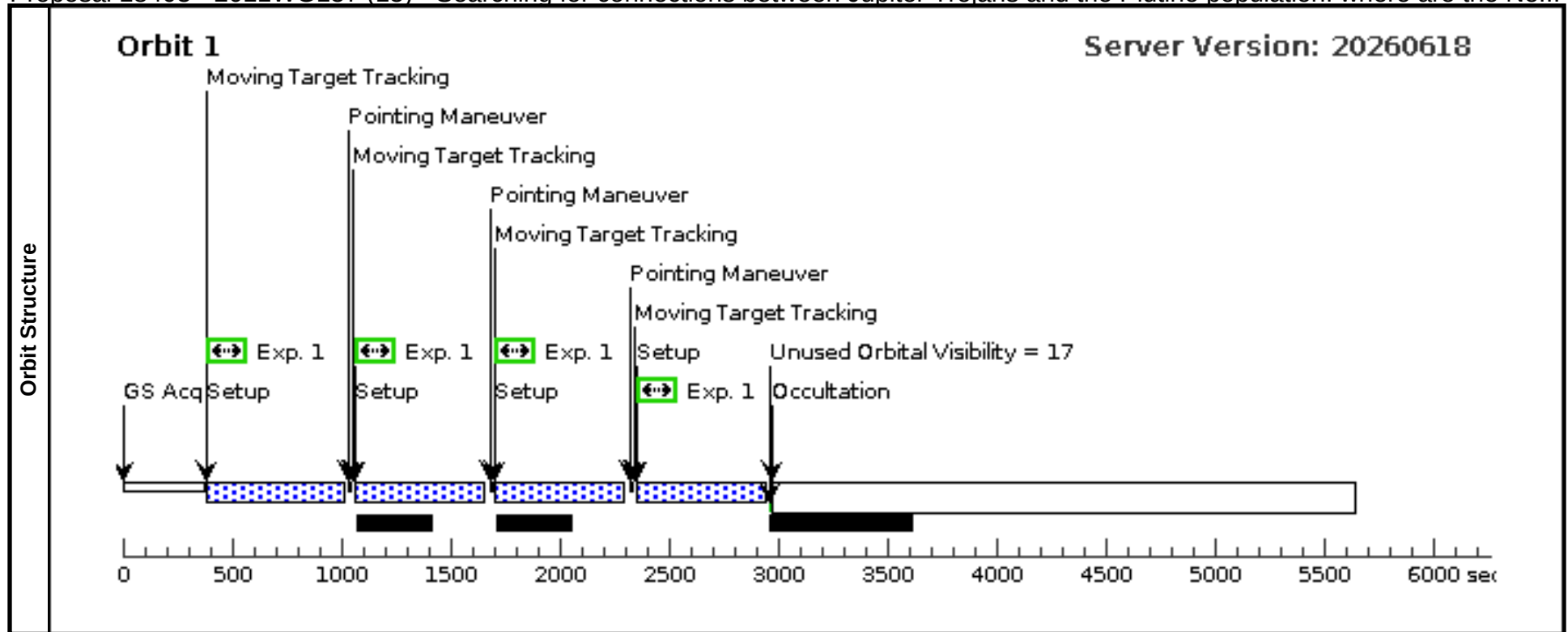
Proposal 18403 - 2011SO277 (14) - Searching for connections between Jupiter Trojans and the Plutino population: where are the Nep...

Visit	Proposal 18403, 2011SO277 (14)										Thu Aug 13 16:00:45 GMT 2026	
	Diagnostic Status: Informational											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Diagnostics	(2011SO277 (14)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.											
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)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center					
	(14)	2011SO277	TYPE=ASTEROID,A=30.27961870375254,E=0.008064312018049356,I=9.630653932964538,O=113.6114277950878,W=106.5113836338469,M=187.1295830778223,EQUINOX=J2000,EPOCH=09-JUN-2026:00:00:00,EpochTimeScale=TDB					EARTH				
	Comments: Description=NT Extended=NO											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(14) 2011SO277	WFC3/UVIS, ACCUM, UVIS2	F350LP			Pattern 1, Exps 1-1 in 2011SO277 (14) (1)	481 Secs (1924 Secs)			
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]	



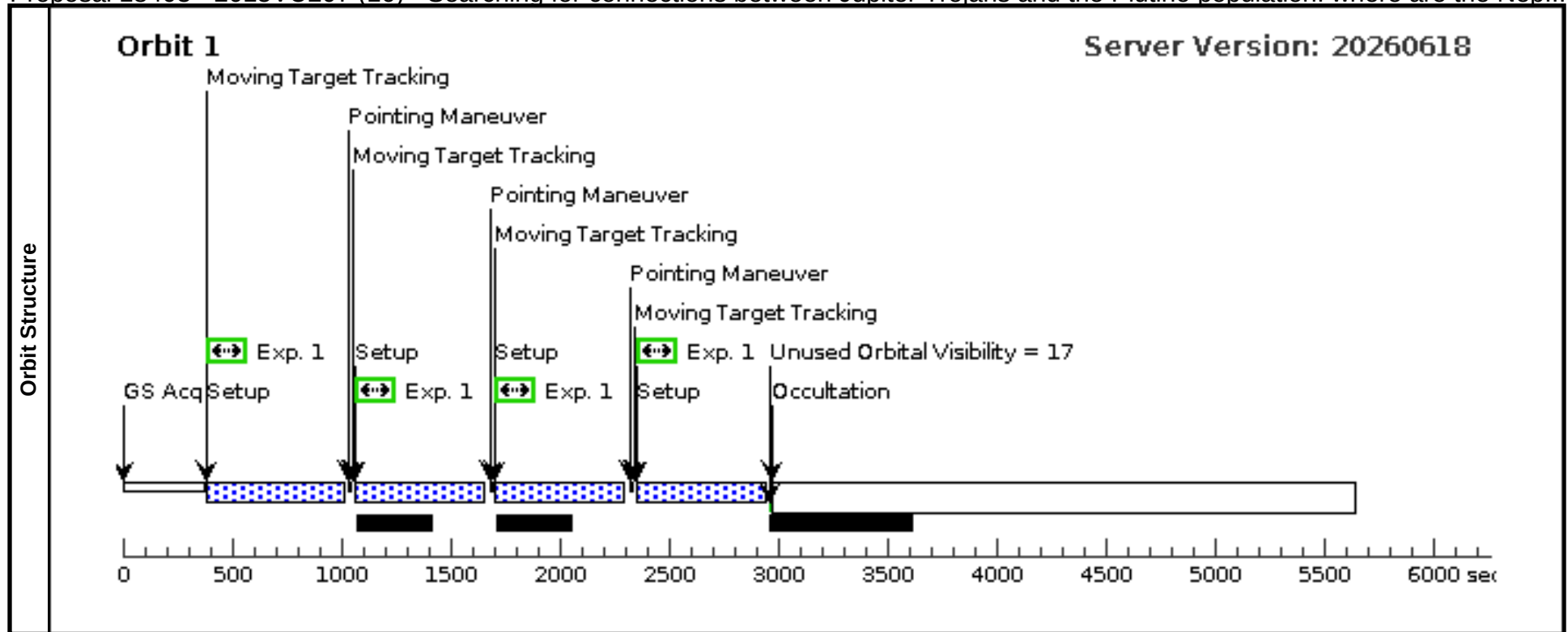
Proposal 18403 - 2011WG157 (15) - Searching for connections between Jupiter Trojans and the Plutino population: where are the Ne...

Visit	Proposal 18403, 2011WG157 (15)										Thu Aug 13 16:00:45 GMT 2026	
	Diagnostic Status: Informational											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Diagnostics	(2011WG157 (15)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.											
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)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center					
	(15)	2011WG157	TYPE=ASTEROID,A=30.1924830851 1815,E=0.02559748072052337,I=22.2 9636100976814,O=352.215358106313 4,W=204.6329852845752,M=240.739 7062498187,EQUINOX=J2000,EPOC H=09-JUN- 2026:00:00:00,EpochTimeScale=TDB					EARTH				
	Comments: Description=NT Extended=NO											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(15) 2011WG157	WFC3/UVIS, ACCUM, UVIS2	F350LP			Pattern 1, Exps 1-1 in 2011WG157 (15) (1)	481 Secs (1924 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]	



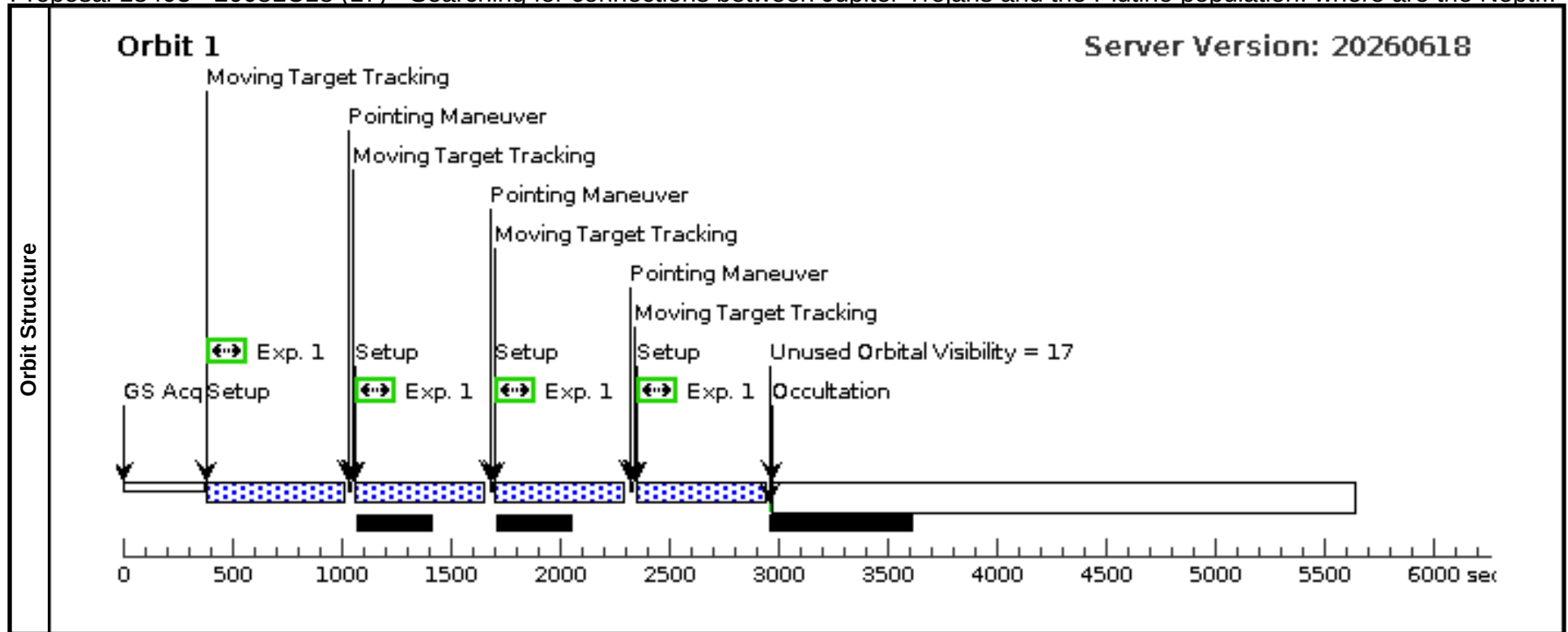
Proposal 18403 - 2015VU207 (16) - Searching for connections between Jupiter Trojans and the Plutino population: where are the Nep...

Visit	Proposal 18403, 2015VU207 (16)										Thu Aug 13 16:00:45 GMT 2026			
	Diagnostic Status: Informational													
	Scientific Instruments: WFC3/UVIS													
	Special Requirements: (none)													
Diagnostics	(2015VU207 (16)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.													
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)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center							
	(16)	2015VU207	TYPE=ASTEROID,A=30.1491104202 4052,E=0.0365485466301901,I=38.89 402286719069,O=114.2545924261094 ,W=34.97204258103478,M=258.0272 08668683,EQUINOX=J2000,EPOCH =09-JUN- 2026:00:00:00,EpochTimeScale=TDB					EARTH						
	Comments: Description=NT Extended=NO													
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]			Orbit		
	1		(16) 2015VU207	WFC3/UVIS, ACCUM, UVIS2	F350LP			Pattern 1, Exps 1-1 in 2015VU207 (16) (1)	481 Secs (1924 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]			[1]		



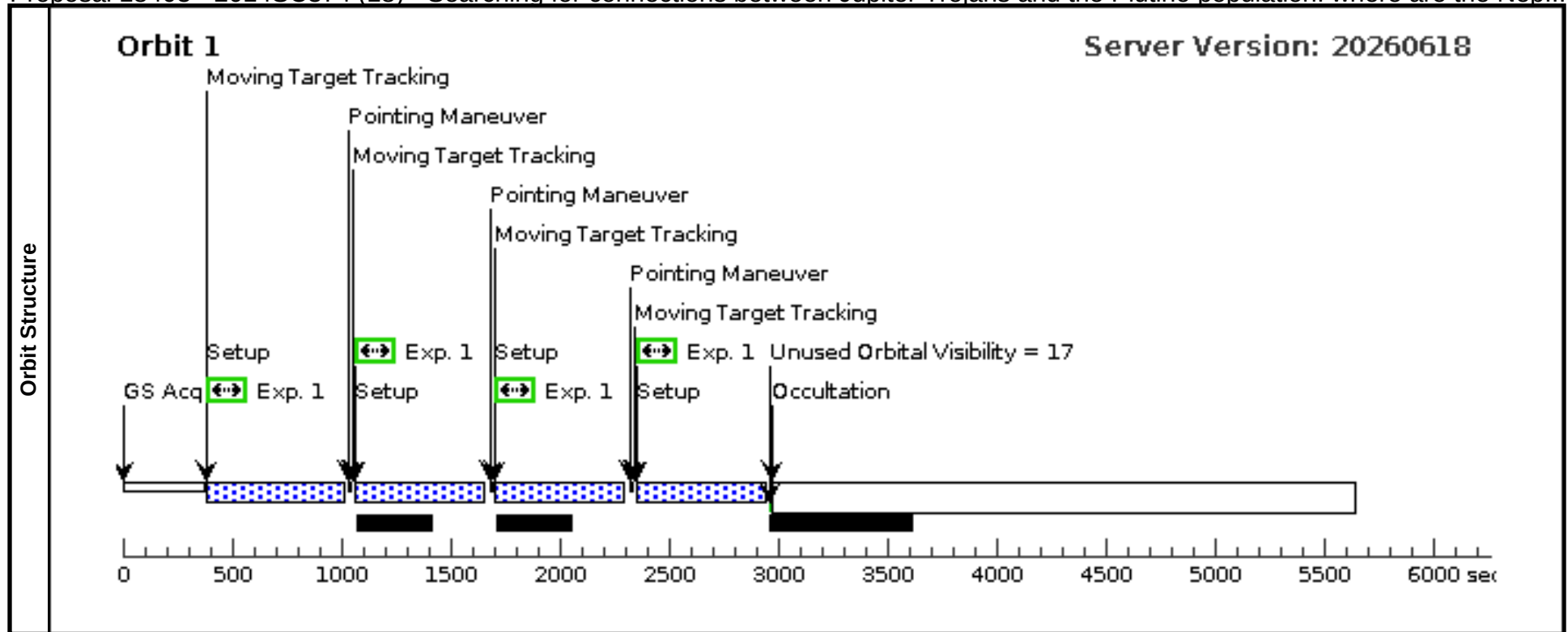
Proposal 18403 - 2008LC18 (17) - Searching for connections between Jupiter Trojans and the Plutino population: where are the Nept...

Visit	Proposal 18403, 2008LC18 (17)										Thu Aug 13 16:00:46 GMT 2026			
	Diagnostic Status: Informational													
	Scientific Instruments: WFC3/UVIS													
	Special Requirements: (none)													
Diagnostics	(2008LC18 (17)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.													
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)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center							
	(17)	2008LC18	TYPE=ASTEROID,A=29.8809911392 6602,E=0.08563579671302214,I=27.5 8907122306581,O=88.5744616773329 1,W=6.245505403862124,M=205.166 0465502753,EQUINOX=J2000,EPOC H=09-JUN- 2026:00:00:00,EpochTimeScale=TDB											
	Comments: Description=NT Extended=NO													
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]			Orbit		
	1		(17) 2008LC18	WFC3/UVIS, ACCUM, UVIS2	F350LP			Pattern 1, Exps 1-1 in 2008LC18 (17) (1)	481 Secs (1924 Secs)					
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]			[1]		



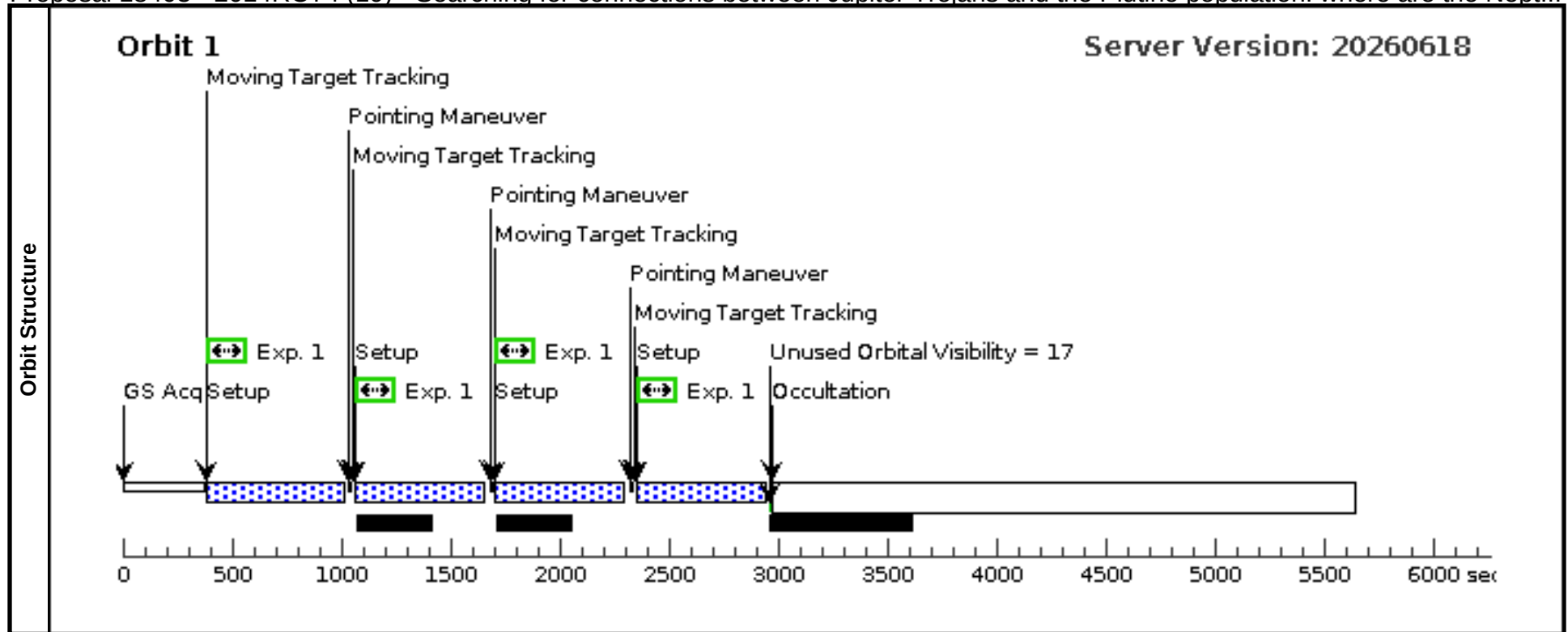
Proposal 18403 - 2014SC374 (18) - Searching for connections between Jupiter Trojans and the Plutino population: where are the Nep...

Visit	Proposal 18403, 2014SC374 (18)										Thu Aug 13 16:00:46 GMT 2026			
	Diagnostic Status: Informational													
	Scientific Instruments: WFC3/UVIS													
	Special Requirements: (none)													
Diagnostics	(2014SC374 (18)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.													
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)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center							
	(18)	2014SC374	TYPE=ASTEROID,A=30.2084379829 8731,E=0.09545532479946811,I=33.7 3385367395537,O=176.296820186942 ,W=43.37363346019368,M=200.3469 301533564,EQUINOX=J2000,EPOCH =09-JUN- 2026:00:00:00,EpochTimeScale=TDB										EARTH	
	Comments: Description=NT Extended=NO													
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]			Orbit		
	1		(18) 2014SC374	WFC3/UVIS, ACCUM, UVIS2	F350LP			Pattern 1, Exps 1-1 in 2014SC374 (18) (1)	481 Secs (1924 Secs)					
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]			[1]		



Proposal 18403 - 2014RO74 (19) - Searching for connections between Jupiter Trojans and the Plutino population: where are the Nept...

Visit	Proposal 18403, 2014RO74 (19)										Thu Aug 13 16:00:46 GMT 2026
	Diagnostic Status: Informational										
	Scientific Instruments: WFC3/UVIS										
	Special Requirements: (none)										
Diagnostics	(2014RO74 (19)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.										
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)
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center				
	(19)	2014RO74	TYPE=ASTEROID,A=30.1661863516 6746,E=0.04680179459426651,I=29.5 3626347642019,O=152.516175317000 6,W=115.4215255192744,M=144.883 024517577,EQUINOX=J2000,EPOCH=09-JUN- 2026:00:00:00,EpochTimeScale=TDB				EARTH				
	Comments: Description=NT Extended=NO										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(19) 2014RO74	WFC3/UVIS, ACCUM, UVIS2	F350LP			Pattern 1, Exps 1-1 in 2014RO74 (19) (1)	481 Secs (1924 Secs)		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		
								[==>(Pattern 3)]			
									[==>(Pattern 4)]		



Proposal 18403 - 2012UD185 (20) - Searching for connections between Jupiter Trojans and the Plutino population: where are the Nep...

Visit	Proposal 18403, 2012UD185 (20)										Thu Aug 13 16:00:46 GMT 2026	
	Diagnostic Status: Informational											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Diagnostics	(2012UD185 (20)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.											
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)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center					
	(20)	2012UD185	TYPE=ASTEROID,A=30.33480495510724,E=0.03986442543633169,I=28.25006324960279,O=246.2156403121568,W=351.3420782256018,M=189.2569730213831,EQUINOX=J2000,EPOC H=09-JUN-2026:00:00:00,EpochTimeScale=TDB				EARTH					
	Comments: Description=NT Extended=NO											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(20) 2012UD185	WFC3/UVIS, ACCUM, UVIS2	F350LP			Pattern 1, Exps 1-1 in 2012UD185 (20) (1)	481 Secs (1924 Secs)			
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]	

