



12675 - Hubble Heritage: 1,000,000th Science Exposure and Neptune's First Orbit

Cycle: 18, Proposal Category: GO/DD

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) NAME-NECKLACE-NEBULA	WFC3/UVIS	3	08-Jun-2011 21:04:06.0	yes
02	(2) NEPTUNE	WFC3/UVIS	1	08-Jun-2011 21:04:22.0	yes
03	(2) NEPTUNE	WFC3/UVIS	1	08-Jun-2011 21:04:37.0	yes
04	(2) NEPTUNE	WFC3/UVIS	1	08-Jun-2011 21:04:50.0	yes
05	(2) NEPTUNE	WFC3/UVIS	1	08-Jun-2011 21:05:05.0	yes

7 Total Orbits Used

ABSTRACT

We propose two observations to take advantage of newsworthy events that will take place in early July 2011. The one millionth science exposure is now estimated to occur sometime in the last few days of June or first few days of July 2011. We propose an observation of a recently discovered and unusual planetary nebula to be done in this window to serve as a visible marker of this milestone. On July 12, 2011, Neptune will complete its first orbit around the Sun since its discovery. To mark this event we will obtain a four frame global color map of Neptune.

OBSERVING DESCRIPTION

This is a Hubble Heritage proposal.

Proposal 12675 - Visit 01 - Hubble Heritage: 1,000,000th Science Exposure and Neptune's First Orbit

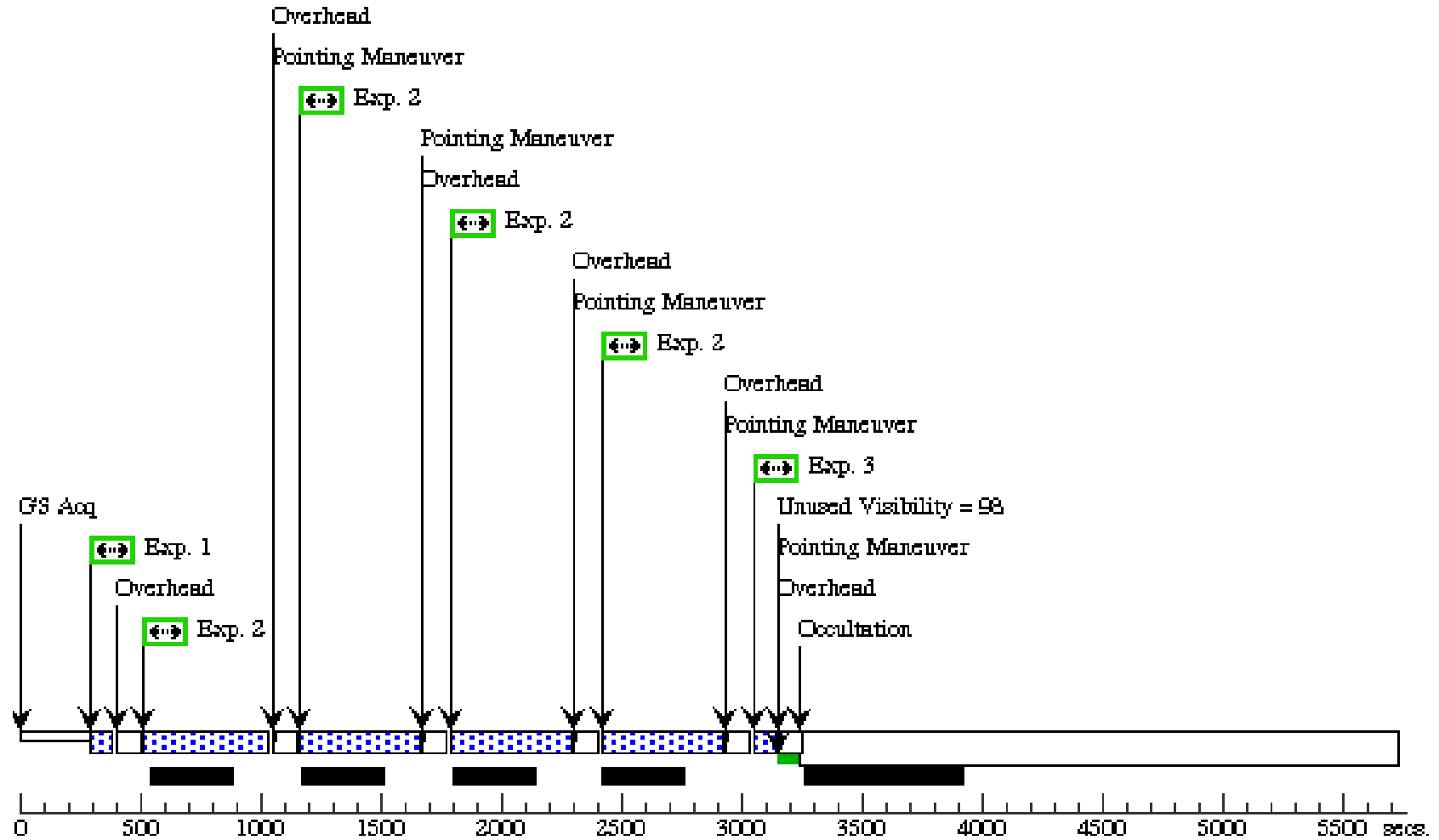
Thu Jun 09 01:05:12 GMT 2011

Visit	Proposal 12675, Visit 01, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 218D TO 218 D									
	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		(2), (5), (8)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NAME-NECKLACE-NEBULA	RA: 19 43 59.5000 (295.9979167d) Dec: +17 09 1.00 (17.15028d) Equinox: J2000		V=15	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) NAME-NECKLACE-NEBULA	WFC3/UVIS, ACCUM, UVIS1-FIX	F814W	CR-SPLIT=NO				60 Secs [==>]	[1]
	2	(1) NAME-NECKLACE-NEBULA	WFC3/UVIS, ACCUM, UVIS1-FIX	F658N	CR-SPLIT=NO			Pattern 1, Exps 2-2 in Visit 01 (1)	500 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	3	(1) NAME-NECKLACE-NEBULA	WFC3/UVIS, ACCUM, UVIS1-FIX	F814W	CR-SPLIT=NO		POS TARG 0.4,0.4		60 Secs [==>]	[1]
	4	(1) NAME-NECKLACE-NEBULA	WFC3/UVIS, ACCUM, UVIS1-FIX	F555W	CR-SPLIT=NO				90 Secs [==>]	[2]
	5	(1) NAME-NECKLACE-NEBULA	WFC3/UVIS, ACCUM, UVIS1-FIX	F656N	CR-SPLIT=NO			Pattern 1, Exps 5-5 in Visit 01 (1)	500 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	6	(1) NAME-NECKLACE-NEBULA	WFC3/UVIS, ACCUM, UVIS1-FIX	F555W	CR-SPLIT=NO		POS TARG 0.4,0.4		90 Secs [==>]	[2]
	7	(1) NAME-NECKLACE-NEBULA	WFC3/UVIS, ACCUM, UVIS1-FIX	F438W	CR-SPLIT=NO				120 Secs [==>]	[3]
	8	(1) NAME-NECKLACE-NEBULA	WFC3/UVIS, ACCUM, UVIS1-FIX	F502N	CR-SPLIT=NO			Pattern 1, Exps 8-8 in Visit 01 (1)	500 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
	9	(1) NAME-NECKLACE-NEBULA	WFC3/UVIS, ACCUM, UVIS1-FIX	F438W	CR-SPLIT=NO		POS TARG 0.4,0.4		120 Secs [==>]	[3]

Orbit 1

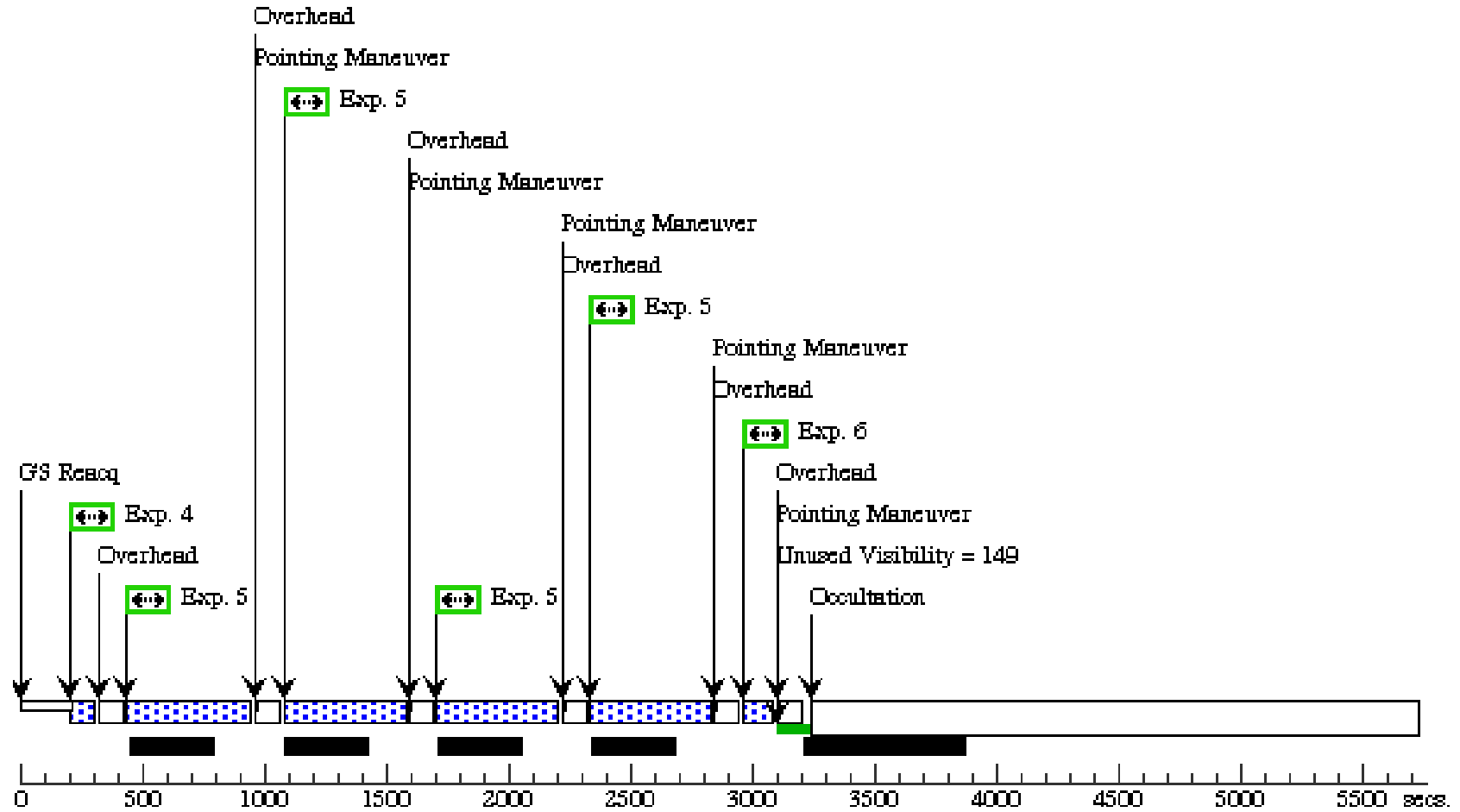
Server Version: 20110509

Orbit Structure



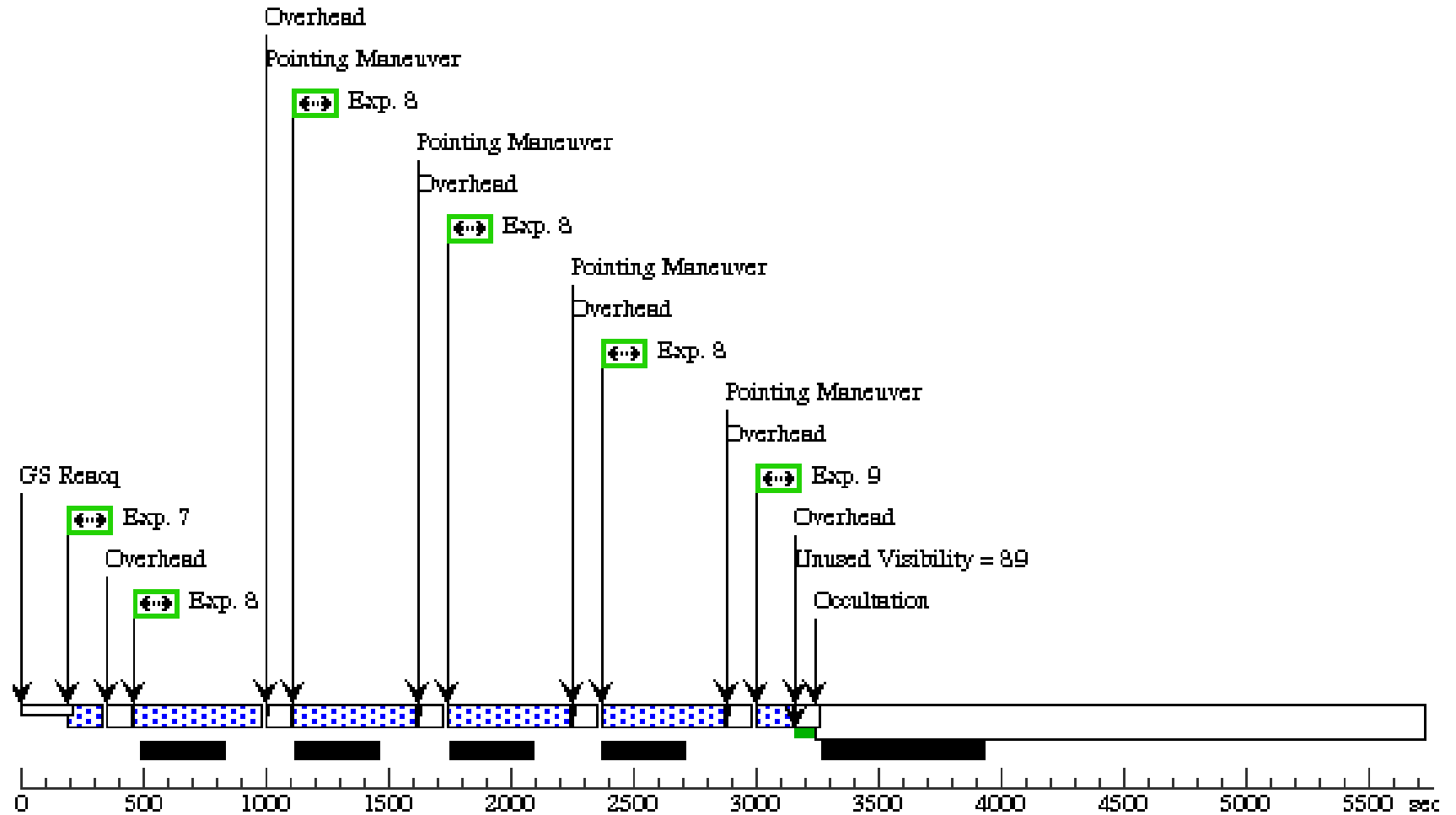
Orbit 2

Server Version: 20110509



Orbit 3

Server Version: 20110509



Proposal 12675 - Visit 02 - Hubble Heritage: 1,000,000th Science Exposure and Neptune's First Orbit

Thu Jun 09 01:05:13 GMT 2011

Visit	Proposal 12675, Visit 02, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)						
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2), (3), (4), (5)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(2)	NEPTUNE	STD=NEPTUNE				EARTH

Proposal 12675 - Visit 02 - Hubble Heritage: 1,000,000th Science Exposure and Neptune's First Orbit

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(2) NEPTUNE	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-1 i n Visit 02 (1)	32 Secs		
								[==>(Pattern 1)]		[1]
								[==>(Pattern 2)]		
								[==>(Pattern 3)]		
								[==>(Pattern 4)]		
2	(2) NEPTUNE	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F467M	CR-SPLIT=NO		Pattern 1, Exps 2-2 i n Visit 02 (1)	18 Secs			
							[==>(Pattern 1)]		[1]	
							[==>(Pattern 2)]			
							[==>(Pattern 3)]			
							[==>(Pattern 4)]			
3	(2) NEPTUNE	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F845M	CR-SPLIT=NO		Pattern 1, Exps 3-3 i n Visit 02 (1)	32 Secs			
							[==>(Pattern 1)]		[1]	
							[==>(Pattern 2)]			
							[==>(Pattern 3)]			
							[==>(Pattern 4)]			
4	(2) NEPTUNE	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F631N	CR-SPLIT=NO		Pattern 1, Exps 4-4 i n Visit 02 (1)	22 Secs			
							[==>(Pattern 1)]		[1]	
							[==>(Pattern 2)]			
							[==>(Pattern 3)]			
							[==>(Pattern 4)]			
5	(2) NEPTUNE	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F845M	CR-SPLIT=NO		Pattern 1, Exps 5-5 i n Visit 02 (1)	32 Secs			
							[==>(Pattern 1)]		[1]	
							[==>(Pattern 2)]			
							[==>(Pattern 3)]			
							[==>(Pattern 4)]			

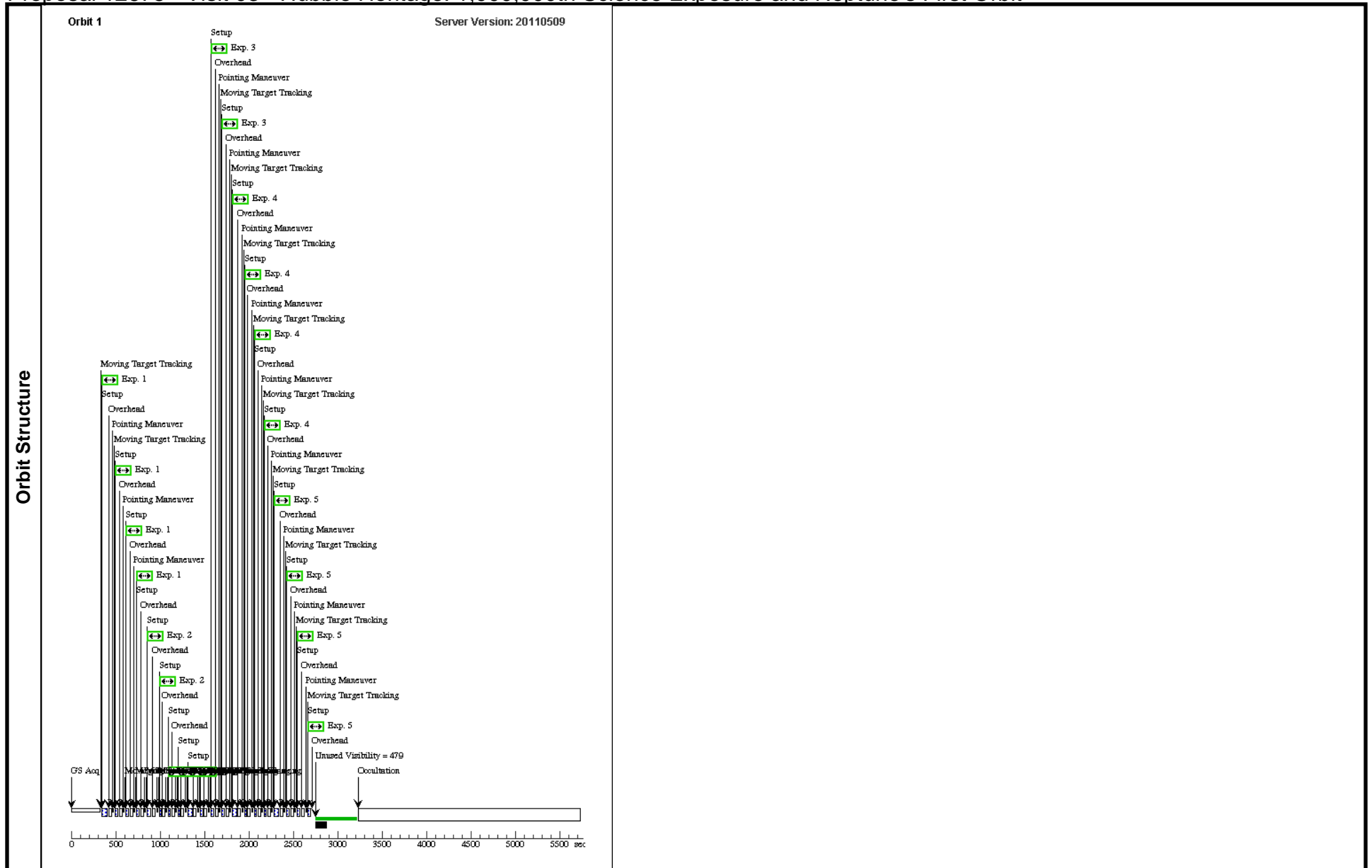
Proposal 12675 - Visit 03 - Hubble Heritage: 1,000,000th Science Exposure and Neptune's First Orbit

Thu Jun 09 01:05:14 GMT 2011

Visit	Proposal 12675, Visit 03 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 02 BY 3.03 H TO 5.03 H						
	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), (2), (3), (4), (5)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(2)	NEPTUNE	STD=NEPTUNE				EARTH

Proposal 12675 - Visit 03 - Hubble Heritage: 1,000,000th Science Exposure and Neptune's First Orbit

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(2) NEPTUNE	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-1 i n Visit 03 (1)	32 Secs		
								[==>(Pattern 1)]		[1]
								[==>(Pattern 2)]		
								[==>(Pattern 3)]		
								[==>(Pattern 4)]		
2	(2) NEPTUNE	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F467M	CR-SPLIT=NO		Pattern 1, Exps 2-2 i n Visit 03 (1)	18 Secs			
							[==>(Pattern 1)]		[1]	
							[==>(Pattern 2)]			
							[==>(Pattern 3)]			
							[==>(Pattern 4)]			
3	(2) NEPTUNE	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F845M	CR-SPLIT=NO		Pattern 1, Exps 3-3 i n Visit 03 (1)	32 Secs			
							[==>(Pattern 1)]		[1]	
							[==>(Pattern 2)]			
							[==>(Pattern 3)]			
							[==>(Pattern 4)]			
4	(2) NEPTUNE	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F631N	CR-SPLIT=NO		Pattern 1, Exps 4-4 i n Visit 03 (1)	22 Secs			
							[==>(Pattern 1)]		[1]	
							[==>(Pattern 2)]			
							[==>(Pattern 3)]			
							[==>(Pattern 4)]			
5	(2) NEPTUNE	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F845M	CR-SPLIT=NO		Pattern 1, Exps 5-5 i n Visit 03 (1)	32 Secs			
							[==>(Pattern 1)]		[1]	
							[==>(Pattern 2)]			
							[==>(Pattern 3)]			
							[==>(Pattern 4)]			



Proposal 12675 - Visit 04 - Hubble Heritage: 1,000,000th Science Exposure and Neptune's First Orbit

Thu Jun 09 01:05:15 GMT 2011

Visit	Proposal 12675, Visit 04 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 02 BY 7.06 H TO 9.06 H						
	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), (2), (3), (4), (5)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(2)	NEPTUNE	STD=NEPTUNE				EARTH

Proposal 12675 - Visit 04 - Hubble Heritage: 1,000,000th Science Exposure and Neptune's First Orbit

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(2) NEPTUNE	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-1 i n Visit 04 (1)	32 Secs		
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	2	(2) NEPTUNE	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F467M	CR-SPLIT=NO		Pattern 1, Exps 2-2 i n Visit 04 (1)	18 Secs		
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	3	(2) NEPTUNE	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F845M	CR-SPLIT=NO		Pattern 1, Exps 3-3 i n Visit 04 (1)	32 Secs		
							[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]		
4	(2) NEPTUNE	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F631N	CR-SPLIT=NO		Pattern 1, Exps 4-4 i n Visit 04 (1)	22 Secs			
							[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]		
5	(2) NEPTUNE	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F845M	CR-SPLIT=NO		Pattern 1, Exps 5-5 i n Visit 04 (1)	32 Secs			
							[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]		

Proposal 12675 - Visit 05 - Hubble Heritage: 1,000,000th Science Exposure and Neptune's First Orbit

Thu Jun 09 01:05:16 GMT 2011

Visit	Proposal 12675, Visit 05 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 02 BY 11.09 H TO 13.09 H						
	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), (2), (3), (4), (5)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(2)	NEPTUNE	STD=NEPTUNE				EARTH

Proposal 12675 - Visit 05 - Hubble Heritage: 1,000,000th Science Exposure and Neptune's First Orbit

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(2) NEPTUNE	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-1 i n Visit 05 (1)	32 Secs		
									[==>(Pattern 1)]	[1]
									[==>(Pattern 2)]	
									[==>(Pattern 3)]	
									[==>(Pattern 4)]	
2	(2) NEPTUNE	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F467M	CR-SPLIT=NO		Pattern 1, Exps 2-2 i n Visit 05 (1)	18 Secs			
								[==>(Pattern 1)]	[1]	
								[==>(Pattern 2)]		
								[==>(Pattern 3)]		
								[==>(Pattern 4)]		
3	(2) NEPTUNE	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F845M	CR-SPLIT=NO		Pattern 1, Exps 3-3 i n Visit 05 (1)	32 Secs			
								[==>(Pattern 1)]	[1]	
								[==>(Pattern 2)]		
								[==>(Pattern 3)]		
								[==>(Pattern 4)]		
4	(2) NEPTUNE	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F631N	CR-SPLIT=NO		Pattern 1, Exps 4-4 i n Visit 05 (1)	22 Secs			
								[==>(Pattern 1)]	[1]	
								[==>(Pattern 2)]		
								[==>(Pattern 3)]		
								[==>(Pattern 4)]		
5	(2) NEPTUNE	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F845M	CR-SPLIT=NO		Pattern 1, Exps 5-5 i n Visit 05 (1)	32 Secs			
								[==>(Pattern 1)]	[1]	
								[==>(Pattern 2)]		
								[==>(Pattern 3)]		
								[==>(Pattern 4)]		

