



12234 - Differentiation in the Kuiper belt: a search for silicates on icy bodies.

Cycle: 18, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
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Dr. Michael E. Brown (CoI)	California Institute of Technology	

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) 2007OR10	WFC3/IR WFC3/UVIS	1	27-Sep-2010 21:12:46.0	yes
02	(2) 1999TD10	WFC3/IR WFC3/UVIS	1	27-Sep-2010 21:12:56.0	yes
03	(3) 2004QQ26	WFC3/IR WFC3/UVIS	1	27-Sep-2010 21:13:03.0	yes
04	(4) 2001QX322	WFC3/IR WFC3/UVIS	1	27-Sep-2010 21:13:12.0	yes
05	(5) 1998SM165	WFC3/IR WFC3/UVIS	1	27-Sep-2010 21:13:19.0	yes
06	(6) 2000OH67	WFC3/IR WFC3/UVIS	1	27-Sep-2010 21:13:26.0	yes
07	(7) 1999RB216	WFC3/IR WFC3/UVIS	1	27-Sep-2010 21:13:32.0	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>
08	(8) 2000WT169	WFC3/IR WFC3/UVIS	1	27-Sep-2010 21:13:39.0	yes
09	(9) 2001QX297	WFC3/IR WFC3/UVIS	1	27-Sep-2010 21:13:44.0	yes
10	(10) 2002PV170	WFC3/IR WFC3/UVIS	1	27-Sep-2010 21:13:50.0	yes
11	(11) 2001PK47	WFC3/IR WFC3/UVIS	1	27-Sep-2010 21:13:57.0	yes
12	(12) 2004EW95	WFC3/IR WFC3/UVIS	1	27-Sep-2010 21:14:03.0	yes
13	(13) 2005TV189	WFC3/IR WFC3/UVIS	1	27-Sep-2010 21:14:11.0	yes
23	(3) 2004QQ26	WFC3/IR WFC3/UVIS	1	27-Sep-2010 21:14:17.0	yes

14 Total Orbits Used

ABSTRACT

We currently have a large on-going program (Go Program 11644, 120 orbits) to exploit the superb stability and photometric characteristics of HST and the broad range in wavelength coverage of the WFC3 to make broad-band vis/IR spectral observations of a large sample of Kuiper belt objects. Though the survey is currently only ~50% complete, the quality and unprecedented signal-to-noise of these observations has revealed the existence of a previously undiscovered spectral variability not explainable within our current understanding of these objects.

A possible explanation for this variability is that with this faint set of Kuiper belt objects, we are beginning to see the difference between larger differentiated objects and smaller non-differentiated objects. It seems that the small and likely undifferentiated objects are exhibiting silicate features that affect our photometry - features not exhibited by the icy mantles of larger icy bodies.

We propose a small add-on survey to dramatically increase the scientific results of our large program. The proposed observations will use the proven capabilities of WFC3 to make broad and narrow-band photometric observations to detect spectral features in the 1.0-1.3 micron range of a small

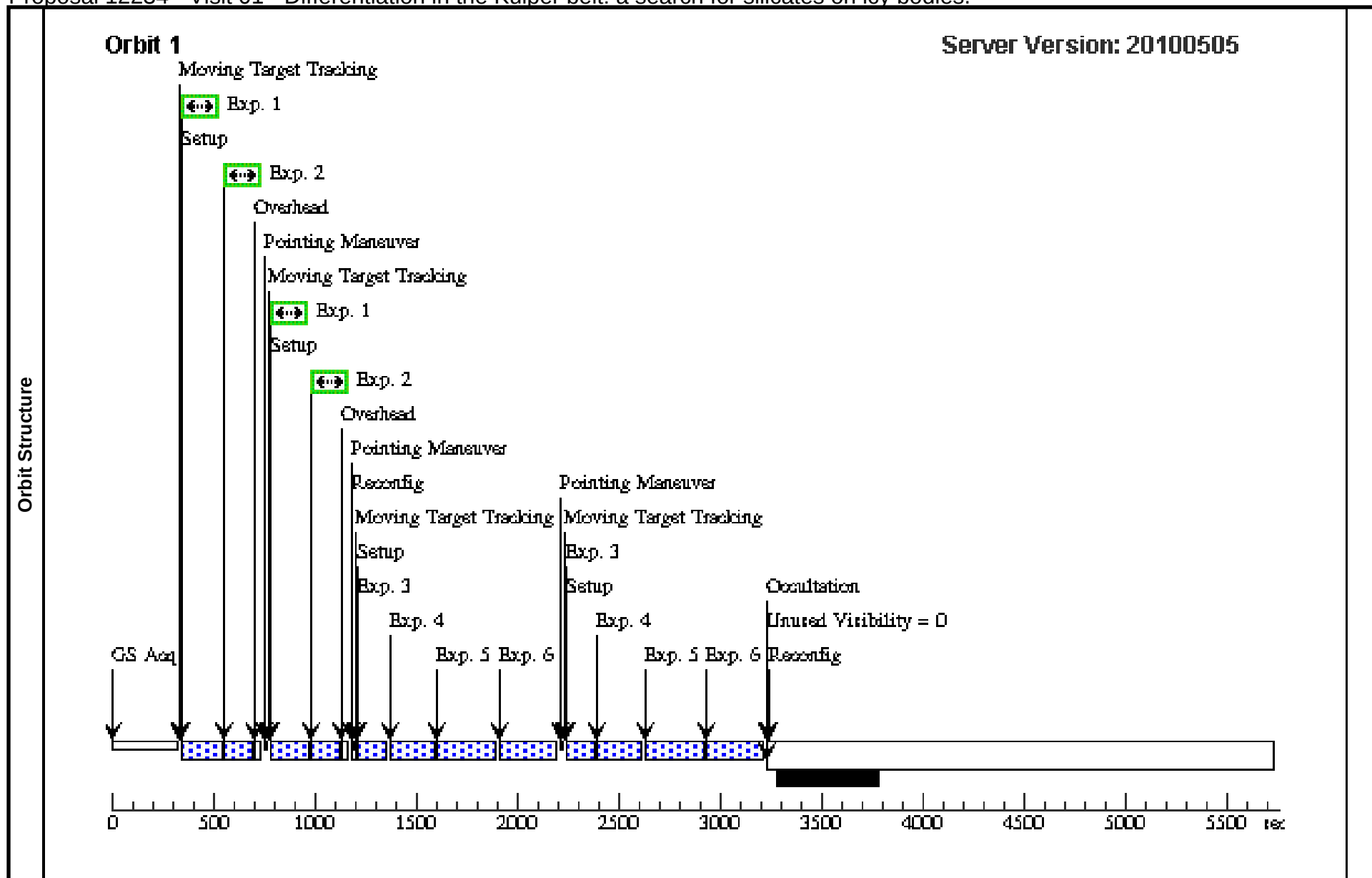
subset of our sources. The 13 targets have been carefully selected to cover the range of spectral variability detected in our large program as well as sample the entire dynamical range and physical sizes of these targets. These observations will allow the identification of undifferentiated Kuiper belt objects by detection of their silicate features. As a probe for differentiation, these observations could constrain the natal locations of different Kuiper belt classes, a constraint currently unavailable to formation models. This small set of observations will allow the calibration of the spectral variability seen in our large program, and drastically enhance the scientific output of our full Cycle 17 sample.

OBSERVING DESCRIPTION

The goal of this proposal is to obtain five band photometry of 13 Kuiper belt objects. The five bands are 606W and 775W from WFC3/UVIS and 098M, 101W, and 127M from WFC3/IR. Images are obtained twice in each filter with a 3 arcsecond nod between the positions. All images of a target are to be obtained during a single orbit per target

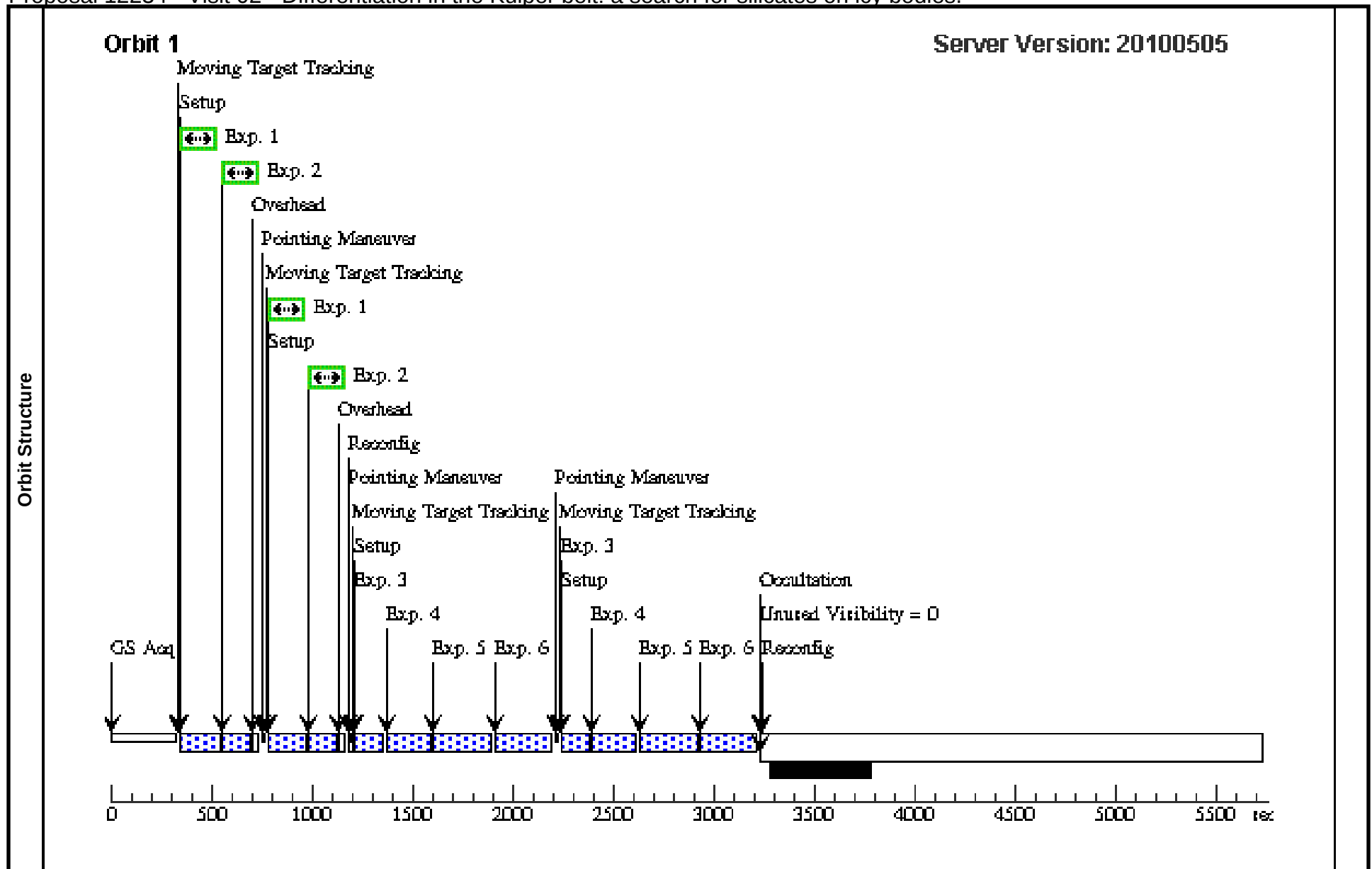
Proposal 12234 (STScI Edit Number: 1, Created: Monday, September 27, 2010 8:14:21 PM EST) - Overview

Visit	Proposal 12234, Visit 01, completed					Tue Sep 28 01:14:21 GMT 2010					
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: WFC3/IR, WFC3/UVIS										
	Special Requirements: (none)										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false						(1-2)	
	(2)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false						(3-6)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window			Ephem Center		
	(1)	2007OR10	TYPE=ASTEROID,A=67.2923533,E=0.4995695,I=30.67651,O=336.86873,W=207.32574,M=100.3854,EQUINO X=J2000,EPOCH=23-JUL-2010:00:00:00					EARTH			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1	F606W	(1) 2007OR10	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	128.0 Secs		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		
	2	F775W	(1) 2007OR10	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	114.0 Secs		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		
3	F110W	(1) 2007OR10	WFC3/IR, MULTIACCUM, IRSUB512	F110W	NSAMP=6; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]	
								[==>(Pattern 2)]			
4	F098M	(1) 2007OR10	WFC3/IR, MULTIACCUM, IRSUB512	F098M	NSAMP=10; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]	
								[==>(Pattern 2)]			
5	F127M	(1) 2007OR10	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]	
								[==>(Pattern 2)]			
6	F127M-2	(1) 2007OR10	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]	
								[==>(Pattern 2)]			



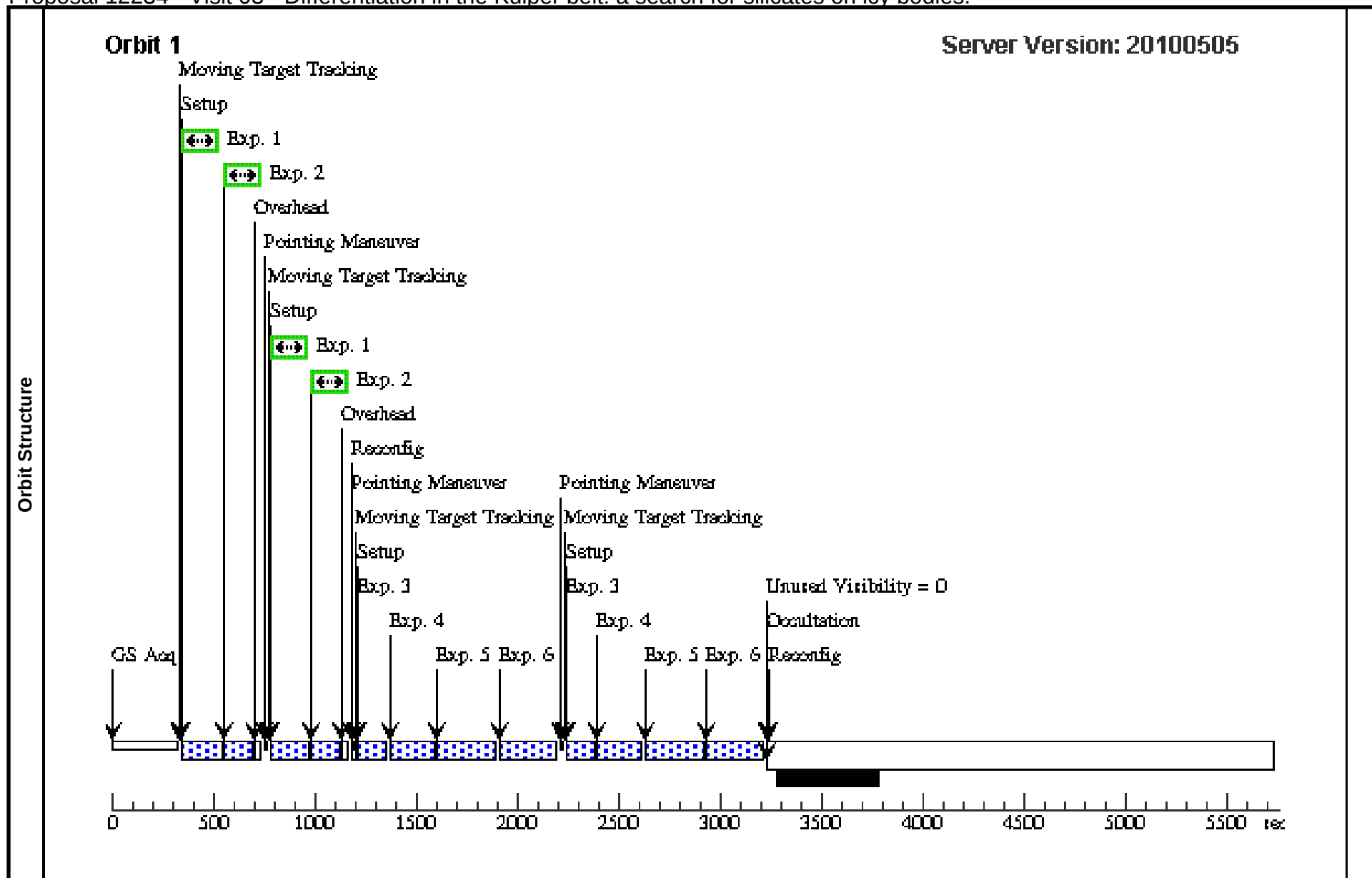
Proposal 12234 - Visit 01 - Differentiation in the Kuiper belt: a search for silicates on icy bodies.

Visit	Proposal 12234, Visit 02, completed										Tue Sep 28 01:14:23 GMT 2010			
	Diagnostic Status: No Diagnostics													
	Scientific Instruments: WFC3/IR, WFC3/UVIS													
	Special Requirements: (none)													
Patterns	#	Primary Pattern					Secondary Pattern					Exposures		
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	(2)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false								(3-6)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center							
	(2)	1999TD10	TYPE=ASTEROID,A=99.983781895, E=0.877010544576,I=5.95524308607, O=184.673632221,W=172.749741672, M=0.551057344742,EQUINOX=J200 0,EPOCH=15-MAY-2001:00:00:00									EARTH		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit			
	1	F606W	(2) 1999TD10	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	128.0 Secs					
									[==>(Pattern 1)]		[1]			
									[==>(Pattern 2)]					
	2	F775W	(2) 1999TD10	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	114.0 Secs					
									[==>(Pattern 1)]		[1]			
									[==>(Pattern 2)]					
3	F110W	(2) 1999TD10	WFC3/IR, MULTIACCUM, IRSUB512	F110W	NSAMP=6; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						
4	F098M	(2) 1999TD10	WFC3/IR, MULTIACCUM, IRSUB512	F098M	NSAMP=10; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						
5	F127M	(2) 1999TD10	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						
6	F127M-2	(2) 1999TD10	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						



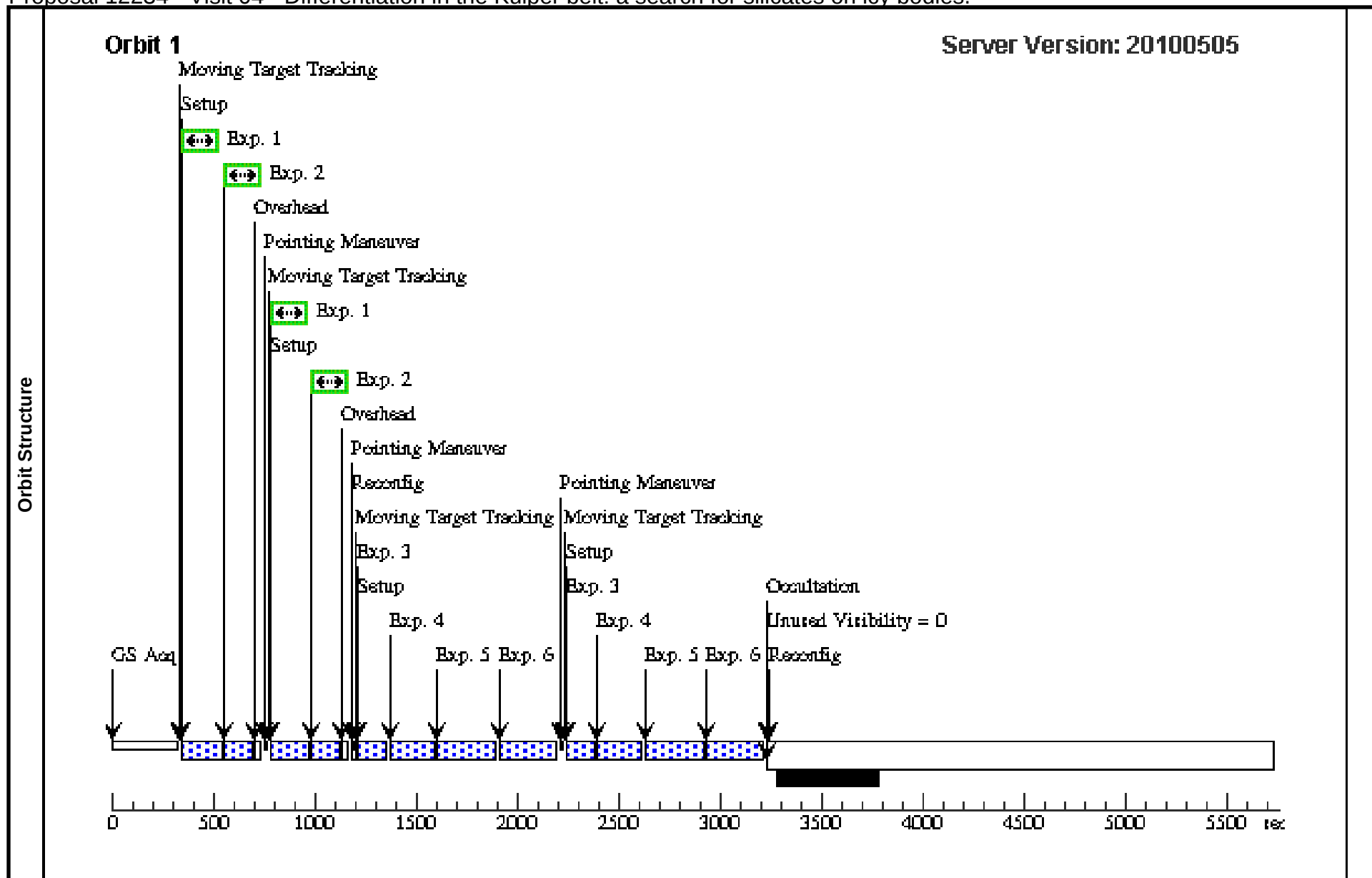
Proposal 12234 - Visit 02 - Differentiation in the Kuiper belt: a search for silicates on icy bodies.

Visit	Proposal 12234, Visit 03, failed										Tue Sep 28 01:14:24 GMT 2010			
	Diagnostic Status: No Diagnostics													
	Scientific Instruments: WFC3/IR, WFC3/UVIS													
	Special Requirements: (none)													
Patterns	#	Primary Pattern					Secondary Pattern					Exposures		
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false							(1-2)	
	(2)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false							(3-6)	
Solar System Targets	#	Name	Level 1		Level 2		Level 3		Window		Ephem Center			
	(3)	2004QQ26	TYPE=ASTEROID,A=22.9261069,E=0.1479139,I=21.4745,O=197.61167,W=355.35129,M=32.39997,EQUINOX=J2000,EPOCH=23-JUL-2010:00:00:00								EARTH			
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit		
	1	F606W	(3) 2004QQ26	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB		F606W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	128.0 Secs				
										[==>(Pattern 1)] [==>(Pattern 2)]		[1]		
	2	F775W	(3) 2004QQ26	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB		F775W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	114.0 Secs				
										[==>(Pattern 1)] [==>(Pattern 2)]		[1]		
	3	F110W	(3) 2004QQ26	WFC3/IR, MULTIACCUM, IRSUB512		F110W	NSAMP=6; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)] [==>(Pattern 2)]		[1]		
	4	F098M	(3) 2004QQ26	WFC3/IR, MULTIACCUM, IRSUB512		F098M	NSAMP=10; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)] [==>(Pattern 2)]		[1]		
5	F127M	(3) 2004QQ26	WFC3/IR, MULTIACCUM, IRSUB512		F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)] [==>(Pattern 2)]		[1]			
6	F127M-2	(3) 2004QQ26	WFC3/IR, MULTIACCUM, IRSUB512		F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)] [==>(Pattern 2)]		[1]			



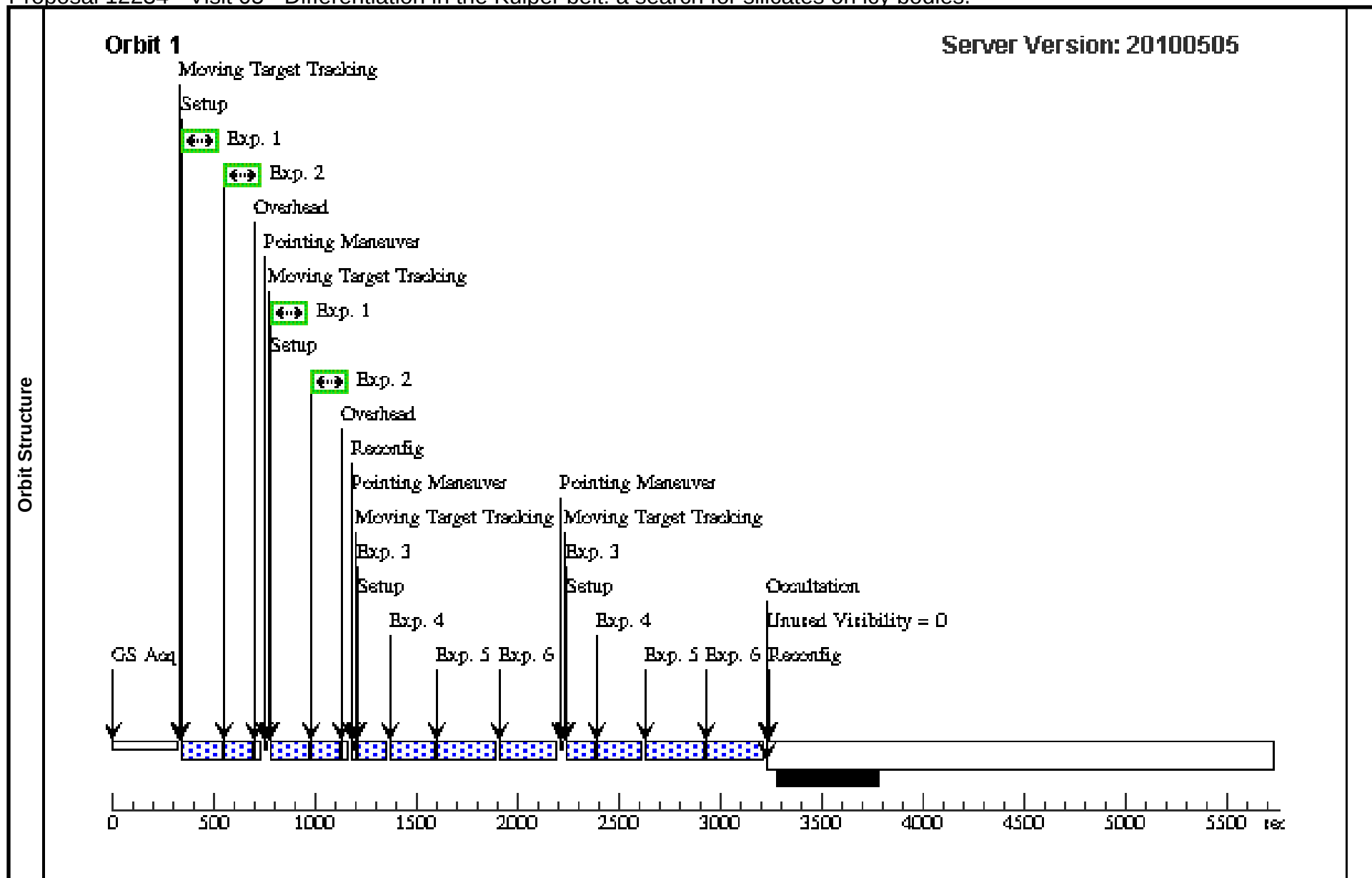
Proposal 12234 - Visit 03 - Differentiation in the Kuiper belt: a search for silicates on icy bodies.

Visit	Proposal 12234, Visit 04, scheduling										Tue Sep 28 01:14:25 GMT 2010			
	Diagnostic Status: No Diagnostics													
	Scientific Instruments: WFC3/IR, WFC3/UVIS													
	Special Requirements: (none)													
Patterns	#	Primary Pattern					Secondary Pattern					Exposures		
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(1-2)	
	(2)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false								(3-6)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center							
	(4)	2001QX322	TYPE=ASTEROID,A=58.0118114412 ,E=0.385014182246,I=28.5038930422, O=255.021899131,W=65.7728552719, M=19.6510933269,EQUINOX=J2000, EPOCH=02-FEB-2002:00:00:00			EARTH								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit			
	1	F606W	(4) 2001QX322	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	128.0 Secs					
									[==>(Pattern 1)]		[1]			
									[==>(Pattern 2)]					
	2	F775W	(4) 2001QX322	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	114.0 Secs					
									[==>(Pattern 1)]		[1]			
									[==>(Pattern 2)]					
3	F110W	(4) 2001QX322	WFC3/IR, MULTIACCUM, IRSUB512	F110W	NSAMP=6; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						
4	F098M	(4) 2001QX322	WFC3/IR, MULTIACCUM, IRSUB512	F098M	NSAMP=10; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						
5	F127M	(4) 2001QX322	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						
6	F127M-2	(4) 2001QX322	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						



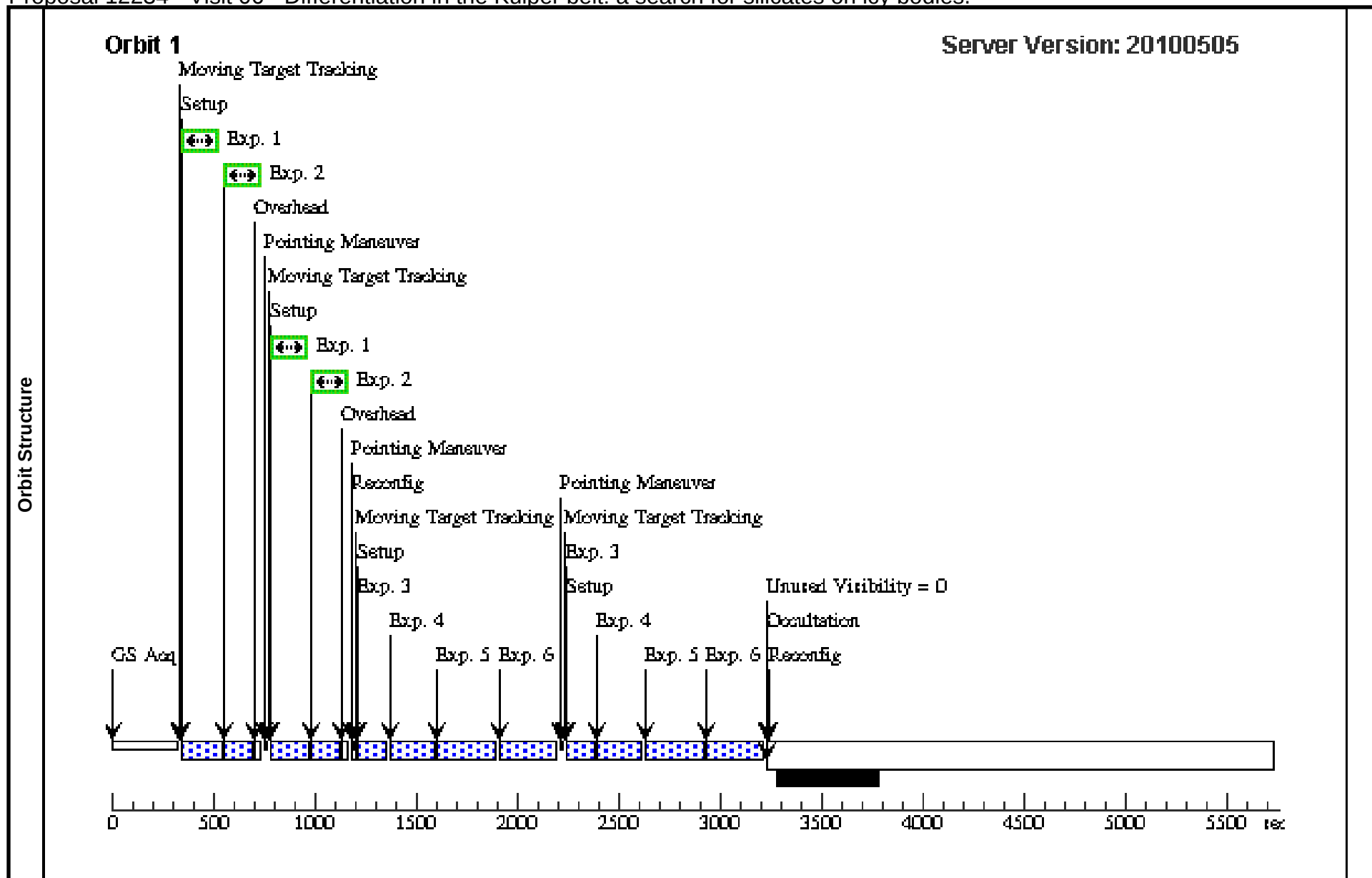
Proposal 12234 - Visit 04 - Differentiation in the Kuiper belt: a search for silicates on icy bodies.

Visit	Proposal 12234, Visit 05, scheduling										Tue Sep 28 01:14:26 GMT 2010		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/IR, WFC3/UVIS												
	Special Requirements: (none)												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
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	(2)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false							(3-6)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window			Ephem Center				
	(5)	1998SM165	TYPE=ASTEROID,A=48.1116897256 ,E=0.374405650157,I=13.4660334133, O=183.111708636,W=131.999777707, M=27.0809363221,EQUINOX=J2000, EPOCH=02-MAY-2000:00:00:00						EARTH				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit		
	1	F606W	(5) 1998SM165	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	128.0 Secs				
									[==>(Pattern 1)]		[1]		
									[==>(Pattern 2)]				
	2	F775W	(5) 1998SM165	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	114.0 Secs				
									[==>(Pattern 1)]		[1]		
									[==>(Pattern 2)]				
3	F110W	(5) 1998SM165	WFC3/IR, MULTIACCUM, IRSUB512	F110W	NSAMP=6; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]			
								[==>(Pattern 2)]					
4	F098M	(5) 1998SM165	WFC3/IR, MULTIACCUM, IRSUB512	F098M	NSAMP=10; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]			
								[==>(Pattern 2)]					
5	F127M	(5) 1998SM165	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]			
								[==>(Pattern 2)]					
6	F127M-2	(5) 1998SM165	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]			
								[==>(Pattern 2)]					



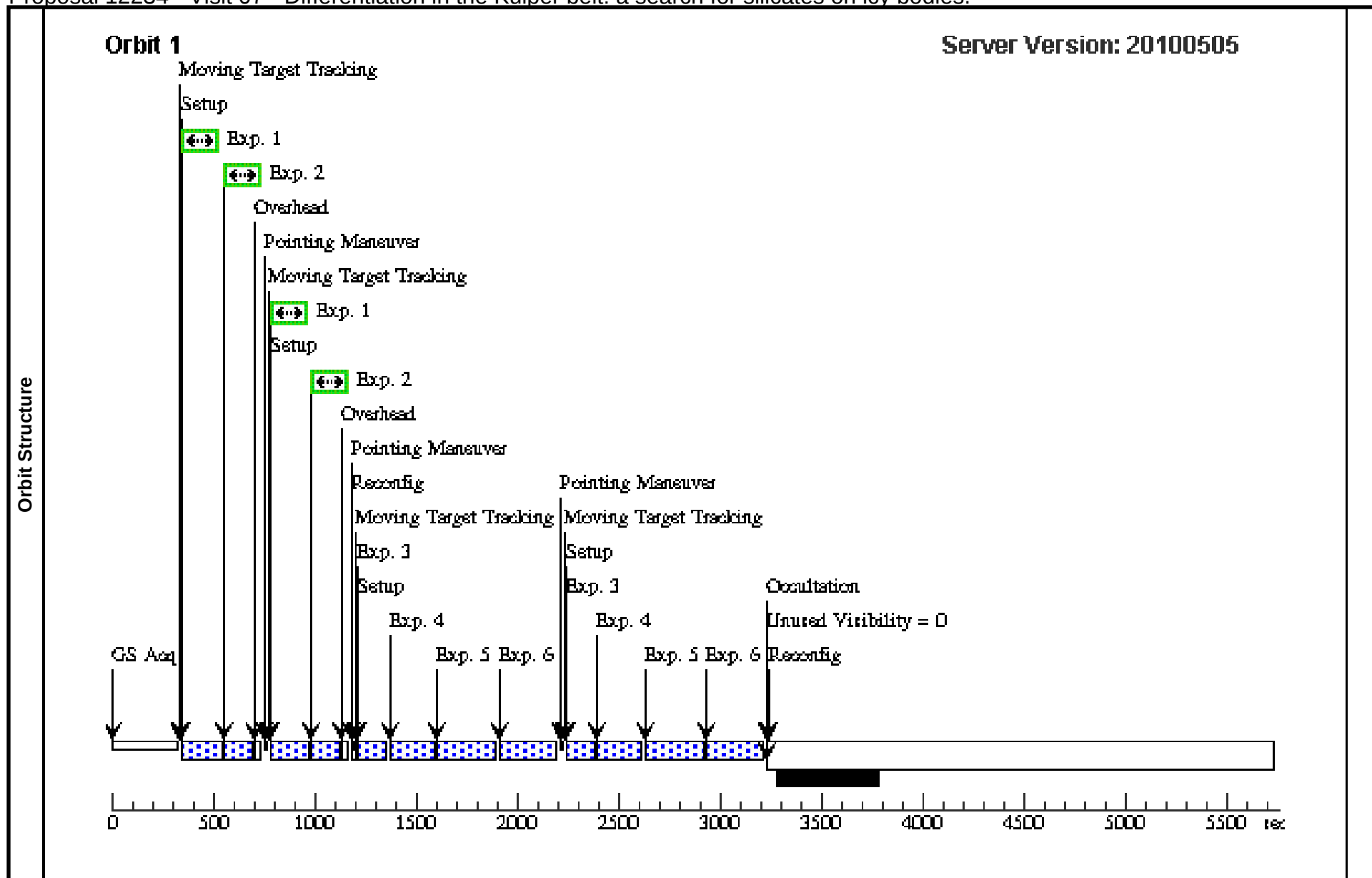
Proposal 12234 - Visit 05 - Differentiation in the Kuiper belt: a search for silicates on icy bodies.

Visit	Proposal 12234, Visit 06, scheduling										Tue Sep 28 01:14:28 GMT 2010		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/IR, WFC3/UVIS												
	Special Requirements: (none)												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
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	(2)	Pattern Type=WFC3-IR-DITHER-LINE Coordinate Frame=POS-TARG Pattern Orientation=41.788 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=3.0 Line Spacing=										(3-6)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				Ephem Center			
	(6)	2000OH67	TYPE=ASTEROID,A=43.9492238925 ,E=0.0148428017429,I=5.6322131070 6,O=77.9022552177,W=189.98989213 6,M=52.2795027281,EQUINOX=J2000,EPOCH=05-JAN-2003:00:00:00									EARTH	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit		
	1	F606W	(6) 2000OH67	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	128.0 Secs				
									[==>(Pattern 1)]		[1]		
									[==>(Pattern 2)]				
	2	F775W	(6) 2000OH67	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	114.0 Secs				
									[==>(Pattern 1)]		[1]		
									[==>(Pattern 2)]				
3	F110W	(6) 2000OH67	WFC3/IR, MULTIACCUM, IRSUB512	F110W	NSAMP=6; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]			
								[==>(Pattern 2)]					
4	F098M	(6) 2000OH67	WFC3/IR, MULTIACCUM, IRSUB512	F098M	NSAMP=10; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]			
								[==>(Pattern 2)]					
5	F127M	(6) 2000OH67	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]			
								[==>(Pattern 2)]					
6	F127M-2	(6) 2000OH67	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]			
								[==>(Pattern 2)]					



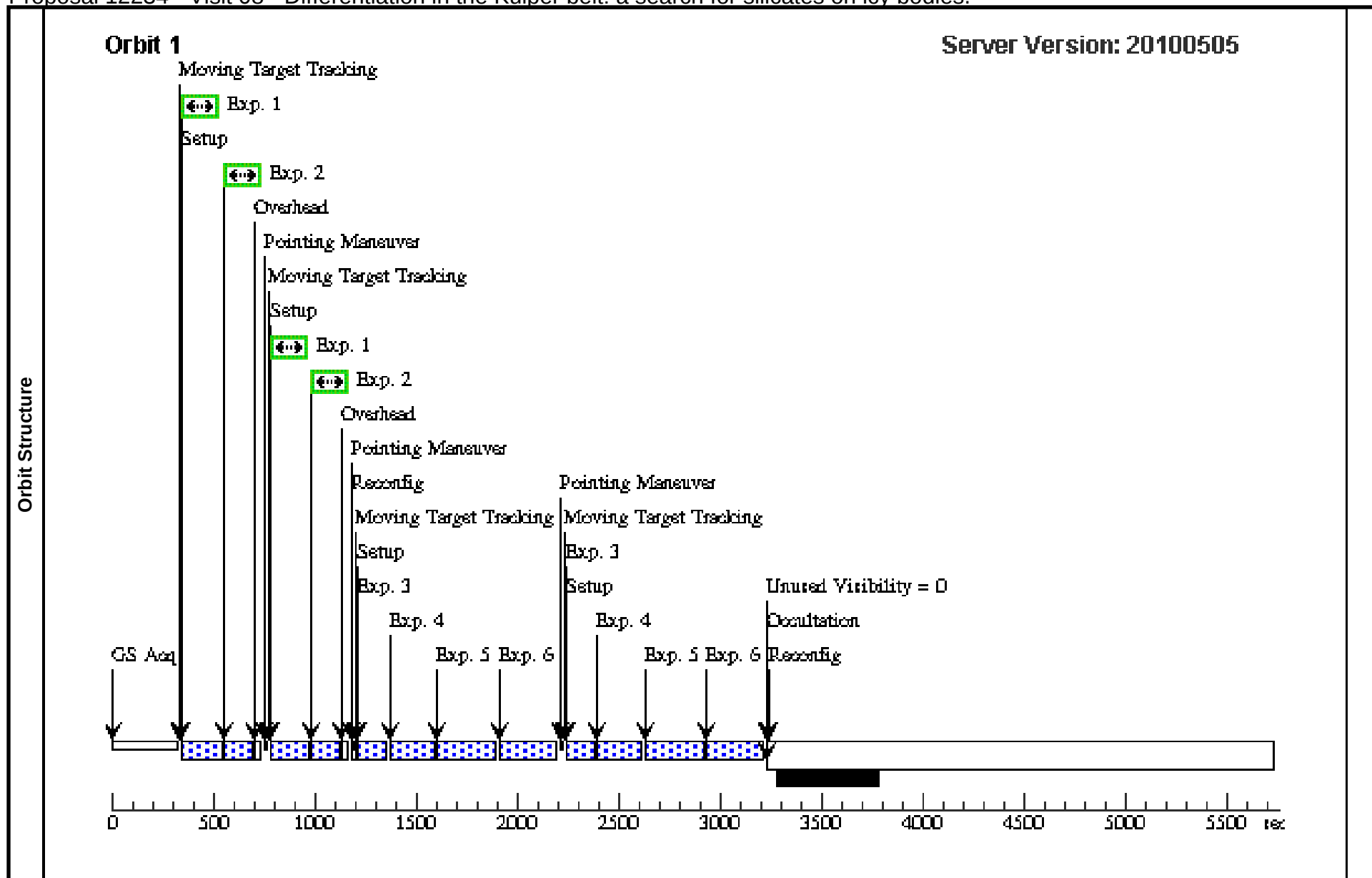
Proposal 12234 - Visit 06 - Differentiation in the Kuiper belt: a search for silicates on icy bodies.

Visit	Proposal 12234, Visit 07, scheduling										Tue Sep 28 01:14:28 GMT 2010			
	Diagnostic Status: No Diagnostics													
	Scientific Instruments: WFC3/IR, WFC3/UVIS													
	Special Requirements: (none)													
Patterns	#	Primary Pattern					Secondary Pattern					Exposures		
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(1-2)	
	(2)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false								(3-6)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				Ephem Center				
	(7)	1999RB216	TYPE=ASTEROID,A=47.3107704382 ,E=0.289182025292,I=12.7130214445, O=175.743521063,W=209.009290312, M=349.179736059,EQUINOX=J2000, EPOCH=22-SEP-2004:00:00:00							EARTH				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit			
	1	F606W	(7) 1999RB216	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	128.0 Secs					
									[==>(Pattern 1)]		[1]			
									[==>(Pattern 2)]					
	2	F775W	(7) 1999RB216	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	114.0 Secs					
									[==>(Pattern 1)]		[1]			
									[==>(Pattern 2)]					
3	F110W	(7) 1999RB216	WFC3/IR, MULTIACCUM, IRSUB512	F110W	NSAMP=6; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						
4	F098M	(7) 1999RB216	WFC3/IR, MULTIACCUM, IRSUB512	F098M	NSAMP=10; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						
5	F127M	(7) 1999RB216	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						
6	F127M-2	(7) 1999RB216	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						



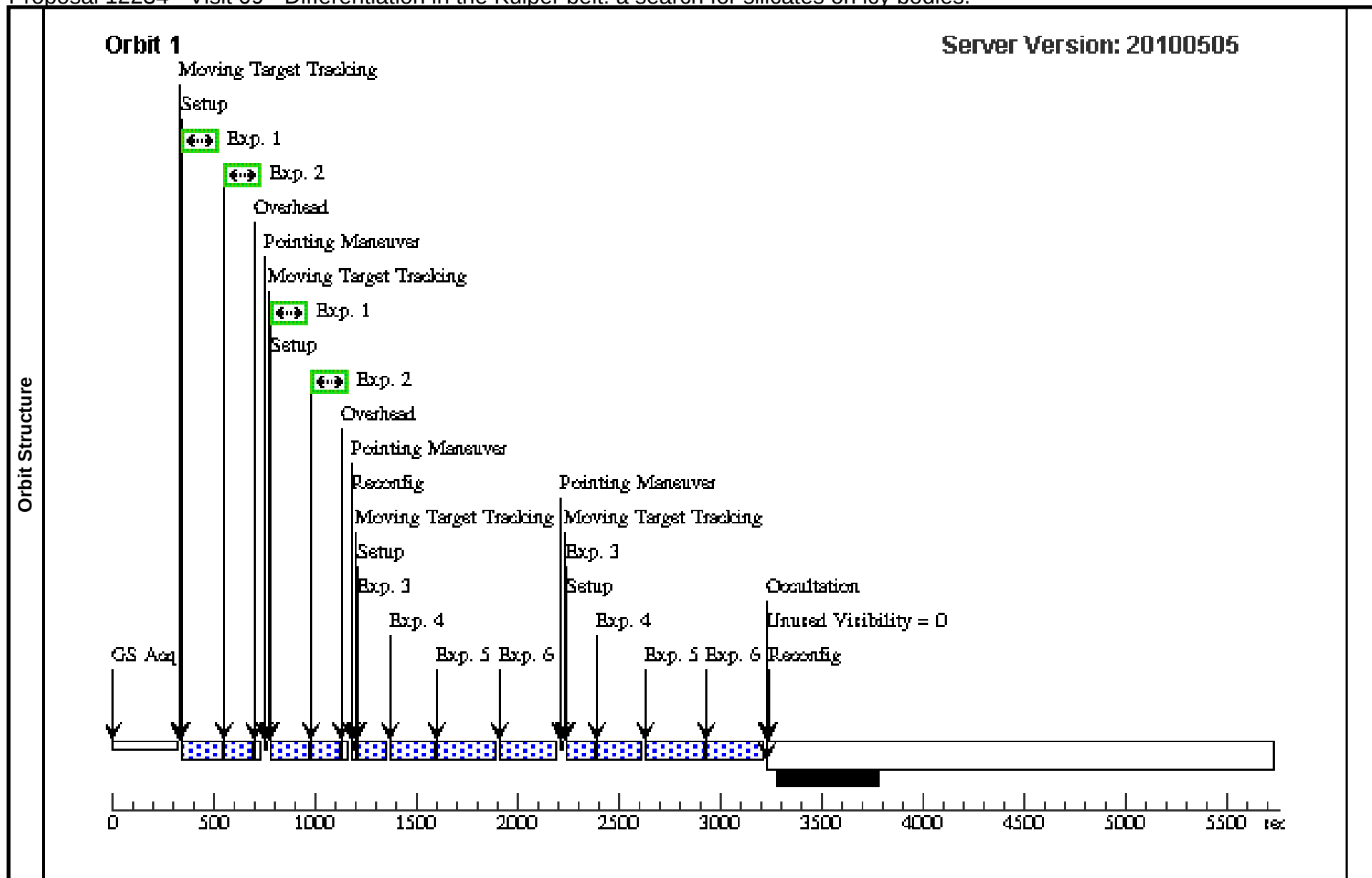
Proposal 12234 - Visit 07 - Differentiation in the Kuiper belt: a search for silicates on icy bodies.

Visit	Proposal 12234, Visit 08, scheduling										Tue Sep 28 01:14:30 GMT 2010		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/IR, WFC3/UVIS												
	Special Requirements: (none)												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=3.0 Line Spacing=										(1-2)	
	(2)	Pattern Type=WFC3-IR-DITHER-LINE Coordinate Frame=POS-TARG Pattern Orientation=41.788 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=3.0 Line Spacing=										(3-6)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				Ephem Center			
	(8)	2000WT169	TYPE=ASTEROID,A=45.095929455, E=0.00959039639707,I=1.7435776232 ,O=110.515755743,W=255.960524975 ,M=63.6139035538,EQUINOX=J2000 ,EPOCH=17-APR-2003:00:00:00									EARTH	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit		
	1	F606W	(8) 2000WT169	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	128.0 Secs				
									[==>(Pattern 1)]		[1]		
									[==>(Pattern 2)]				
	2	F775W	(8) 2000WT169	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	114.0 Secs				
									[==>(Pattern 1)]		[1]		
									[==>(Pattern 2)]				
3	F110W	(8) 2000WT169	WFC3/IR, MULTIACCUM, IRSUB512	F110W	NSAMP=6; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]			
								[==>(Pattern 2)]					
4	F098M	(8) 2000WT169	WFC3/IR, MULTIACCUM, IRSUB512	F098M	NSAMP=10; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]			
								[==>(Pattern 2)]					
5	F127M	(8) 2000WT169	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]			
								[==>(Pattern 2)]					
6	F127M-2	(8) 2000WT169	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]			
								[==>(Pattern 2)]					



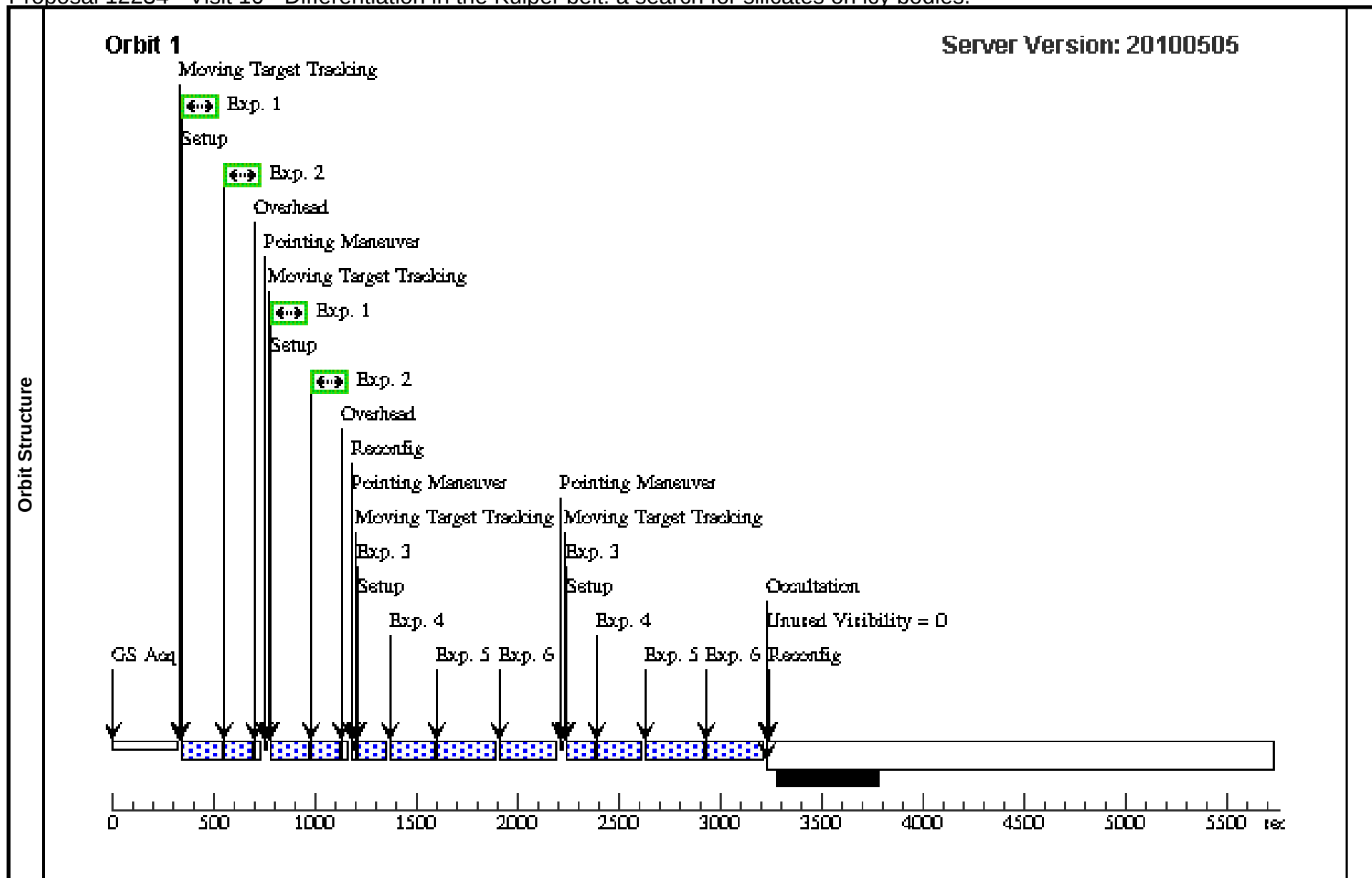
Proposal 12234 - Visit 08 - Differentiation in the Kuiper belt: a search for silicates on icy bodies.

Visit	Proposal 12234, Visit 09, completed										Tue Sep 28 01:14:30 GMT 2010		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/IR, WFC3/UVIS												
	Special Requirements: (none)												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false										(1-2)	
	(2)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false										(3-6)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				Ephem Center			
	(9)	2001QX297	TYPE=ASTEROID,A=44.4118317,E=0.0318654,I=0.90921,O=279.44555,W=103.15348,M=318.66691,EQUINOX=J2000,EPOCH=23-JUL-2010:00:00:00							EARTH			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit		
	1	F606W	(9) 2001QX297	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	128.0 Secs				
									[==>(Pattern 1)]		[1]		
									[==>(Pattern 2)]				
	2	F775W	(9) 2001QX297	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	114.0 Secs				
									[==>(Pattern 1)]		[1]		
									[==>(Pattern 2)]				
3	F110W	(9) 2001QX297	WFC3/IR, MULTIACCUM, IRSUB512	F110W	NSAMP=6; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]			
								[==>(Pattern 2)]					
4	F098M	(9) 2001QX297	WFC3/IR, MULTIACCUM, IRSUB512	F098M	NSAMP=10; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]			
								[==>(Pattern 2)]					
5	F127M	(9) 2001QX297	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]			
								[==>(Pattern 2)]					
6	F127M-2	(9) 2001QX297	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]			
								[==>(Pattern 2)]					



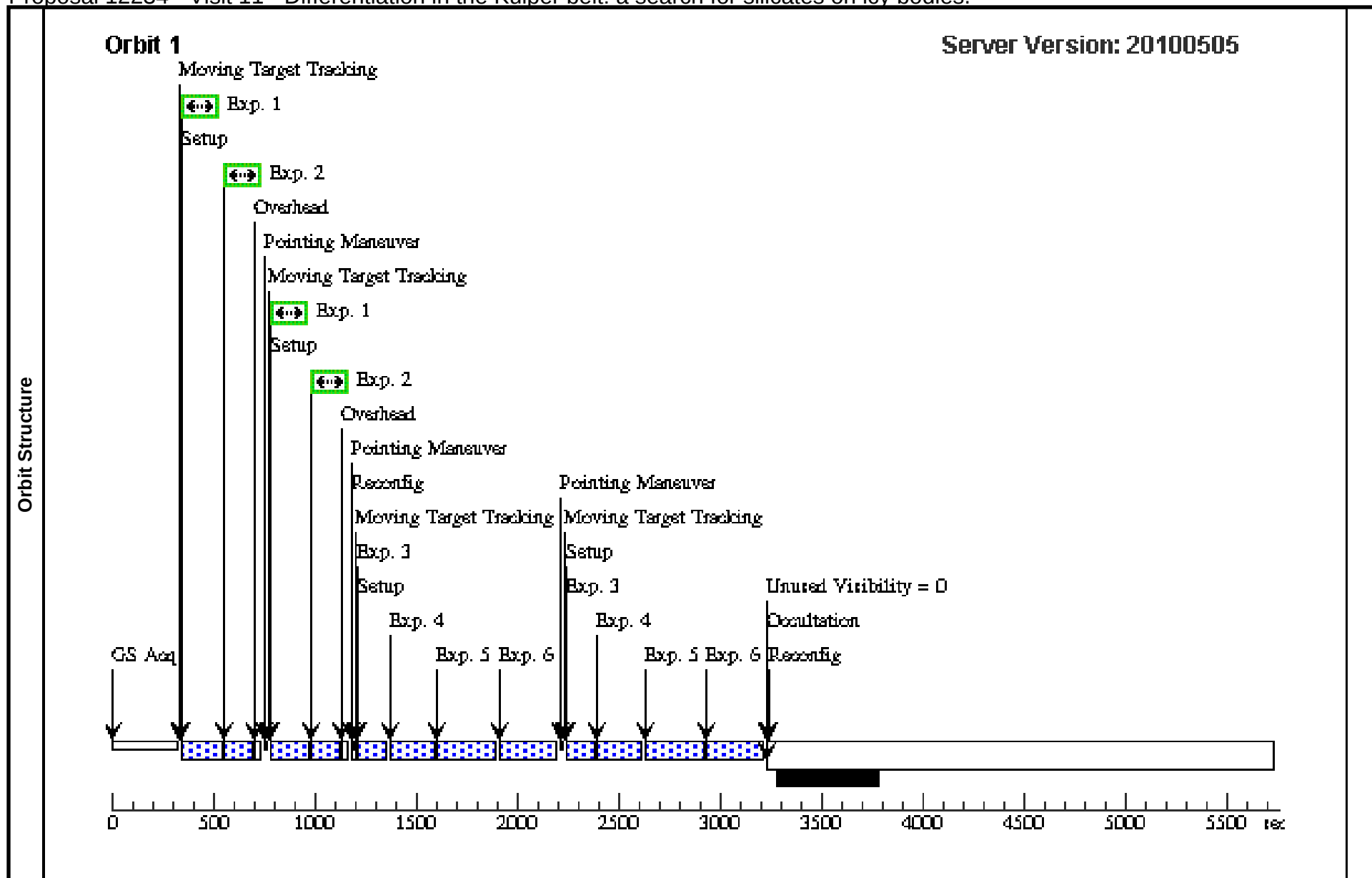
Proposal 12234 - Visit 09 - Differentiation in the Kuiper belt: a search for silicates on icy bodies.

Visit	Proposal 12234, Visit 10, scheduling										Tue Sep 28 01:14:31 GMT 2010			
	Diagnostic Status: No Diagnostics													
	Scientific Instruments: WFC3/IR, WFC3/UVIS													
	Special Requirements: (none)													
Patterns	#	Primary Pattern					Secondary Pattern					Exposures		
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(1-2)	
	(2)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false								(3-6)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center							
	(10)	2002PV170	TYPE=ASTEROID,A=42.9336451,E=0.0195137,I=1.2719,O=88.46841,W=270.70241,M=338.93792,EQUINOX=J2000,EPOCH=23-JUL-2010:00:00:00									EARTH		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit			
	1	F606W	(10) 2002PV170	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	128.0 Secs					
									[==>(Pattern 1)]		[1]			
									[==>(Pattern 2)]					
	2	F775W	(10) 2002PV170	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	114.0 Secs					
									[==>(Pattern 1)]		[1]			
									[==>(Pattern 2)]					
3	F110W	(10) 2002PV170	WFC3/IR, MULTIACCUM, IRSUB512	F110W	NSAMP=6; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						
4	F098M	(10) 2002PV170	WFC3/IR, MULTIACCUM, IRSUB512	F098M	NSAMP=10; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						
5	F127M	(10) 2002PV170	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						
6	F127M-2	(10) 2002PV170	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						



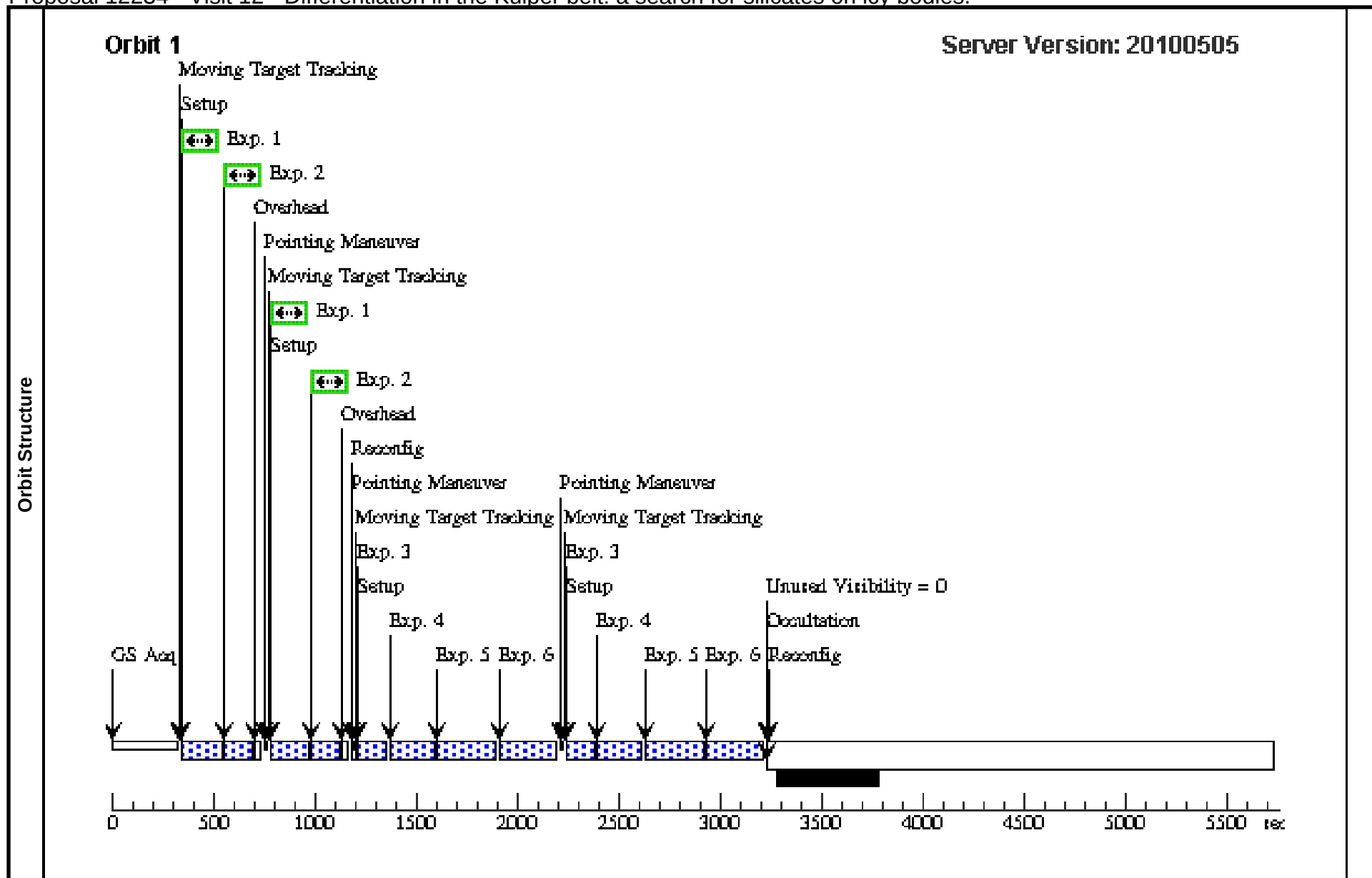
Proposal 12234 - Visit 10 - Differentiation in the Kuiper belt: a search for silicates on icy bodies.

Visit	Proposal 12234, Visit 11, scheduling										Tue Sep 28 01:14:31 GMT 2010			
	Diagnostic Status: No Diagnostics													
	Scientific Instruments: WFC3/IR, WFC3/UVIS													
	Special Requirements: (none)													
Patterns	#	Primary Pattern					Secondary Pattern					Exposures		
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(1-2)	
	(2)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false								(3-6)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				Ephem Center				
	(11)	2001PK47	TYPE=ASTEROID,A=40.0051301,E=0.0692982,I=8.72769,O=248.02606,W=166.1572,M=329.69814,EQUINOX=J2000,EPOCH=23-JUL-2010:00:00:00										EARTH	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit			
	1	F606W	(11) 2001PK47	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	128.0 Secs					
									[==>(Pattern 1)]		[1]			
									[==>(Pattern 2)]					
	2	F775W	(11) 2001PK47	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	114.0 Secs					
									[==>(Pattern 1)]		[1]			
									[==>(Pattern 2)]					
3	F110W	(11) 2001PK47	WFC3/IR, MULTIACCUM, IRSUB512	F110W	NSAMP=6; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						
4	F098M	(11) 2001PK47	WFC3/IR, MULTIACCUM, IRSUB512	F098M	NSAMP=10; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						
5	F127M	(11) 2001PK47	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						
6	F127M-2	(11) 2001PK47	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						



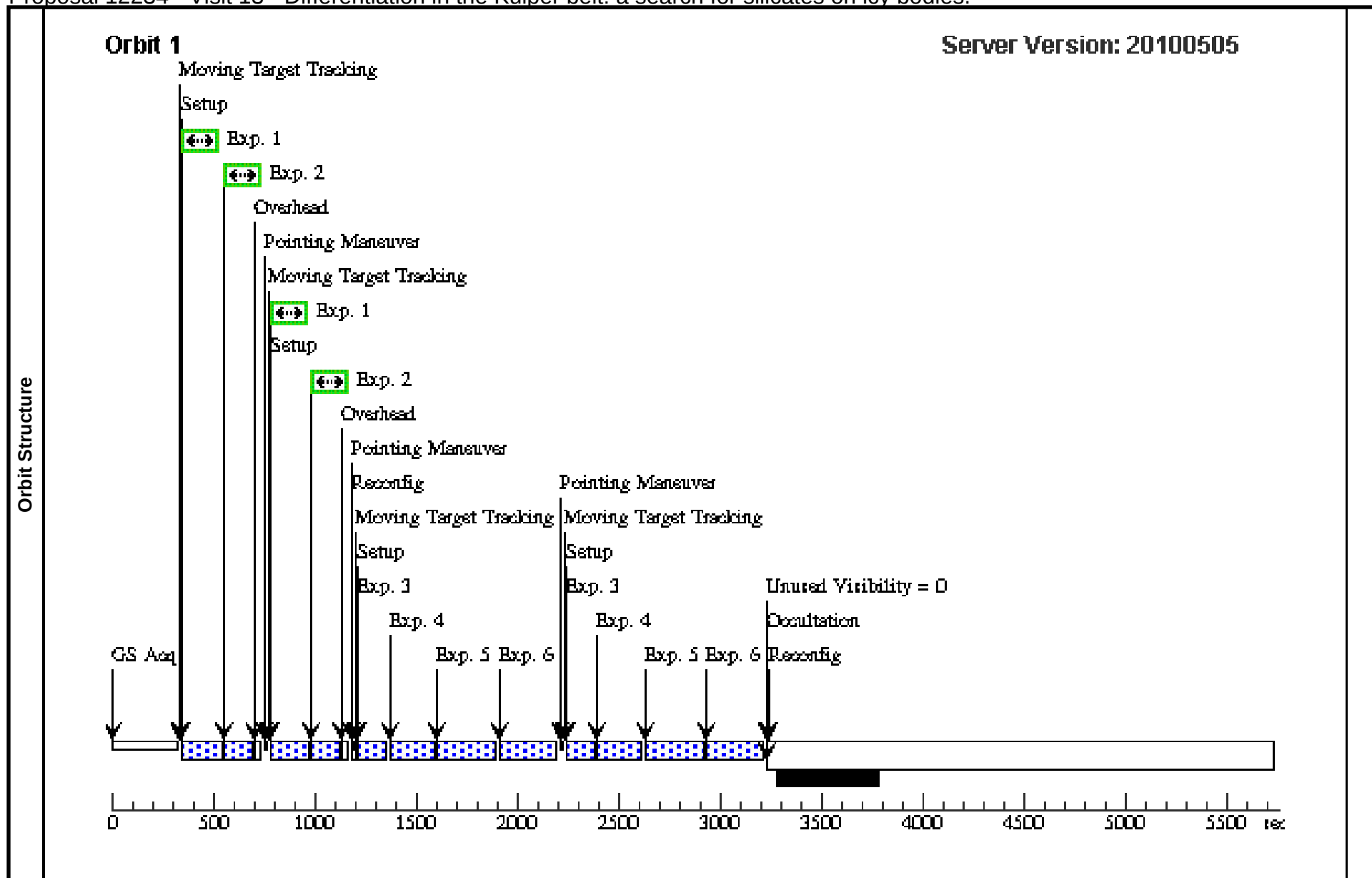
Proposal 12234 - Visit 11 - Differentiation in the Kuiper belt: a search for silicates on icy bodies.

Visit	Proposal 12234, Visit 12, scheduling										Tue Sep 28 01:14:32 GMT 2010			
	Diagnostic Status: No Diagnostics													
	Scientific Instruments: WFC3/IR, WFC3/UVIS													
	Special Requirements: (none)													
Patterns	#	Primary Pattern					Secondary Pattern					Exposures		
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(1-2)	
	(2)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false								(3-6)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				Ephem Center				
	(12)	2004EW95	TYPE=ASTEROID,A=39.3124985,E=0.3143208,I=29.31959,O=25.74413,W=204.87637,M=348.62958,EQUINOX=J2000,EPOCH=23-JUL-2010:00:00:00										EARTH	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit			
	1	F606W	(12) 2004EW95	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	128.0 Secs					
									[==>(Pattern 1)]		[1]			
									[==>(Pattern 2)]					
	2	F775W	(12) 2004EW95	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	114.0 Secs					
									[==>(Pattern 1)]		[1]			
									[==>(Pattern 2)]					
3	F110W	(12) 2004EW95	WFC3/IR, MULTIACCUM, IRSUB512	F110W	NSAMP=6; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						
4	F098M	(12) 2004EW95	WFC3/IR, MULTIACCUM, IRSUB512	F098M	NSAMP=10; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						
5	F127M	(12) 2004EW95	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						
6	F127M-2	(12) 2004EW95	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]				
								[==>(Pattern 2)]						



Proposal 12234 - Visit 12 - Differentiation in the Kuiper belt: a search for silicates on icy bodies.

Visit	Proposal 12234, Visit 13, scheduling										Tue Sep 28 01:14:33 GMT 2010		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/IR, WFC3/UVIS												
	Special Requirements: (none)												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false							(1-2)	
	(2)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false							(3-6)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center						
	(13)	2005TV189	TYPE=ASTEROID,A=39.4745753,E=0.1899159,I=34.37792,O=246.19942,W=184.96819,M=5.25355,EQUINOX=J2000,EPOCH=23-JUL-2010:00:00:00			EARTH							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit		
	1	F606W	(13) 2005TV189	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	128.0 Secs				
									[==>(Pattern 1)]		[1]		
									[==>(Pattern 2)]				
	2	F775W	(13) 2005TV189	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	114.0 Secs				
									[==>(Pattern 1)]		[1]		
									[==>(Pattern 2)]				
3	F110W	(13) 2005TV189	WFC3/IR, MULTIACCUM, IRSUB512	F110W	NSAMP=6; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]			
								[==>(Pattern 2)]					
4	F098M	(13) 2005TV189	WFC3/IR, MULTIACCUM, IRSUB512	F098M	NSAMP=10; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]			
								[==>(Pattern 2)]					
5	F127M	(13) 2005TV189	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]			
								[==>(Pattern 2)]					
6	F127M-2	(13) 2005TV189	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]			
								[==>(Pattern 2)]					



Proposal 12234 - Visit 13 - Differentiation in the Kuiper belt: a search for silicates on icy bodies.

Visit	Proposal 12234, Visit 23										Tue Sep 28 01:14:33 GMT 2010	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/IR, WFC3/UVIS											
	Special Requirements: (none)											
	Comments: Repeat of failed visit 03.											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false						(1-2)	
	(2)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.0 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false						(3-6)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center					
	(3)	2004QQ26	TYPE=ASTEROID,A=22.9261069,E=0.1479139,I=21.4745,O=197.61167,W=355.35129,M=32.39997,EQUINOX=J2000,EPOCH=23-JUL-2010:00:00:00									EARTH
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit	
	1	F606W	(3) 2004QQ26	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	128.0 Secs			
									[==>(Pattern 1)]		[1]	
									[==>(Pattern 2)]			
	2	F775W	(3) 2004QQ26	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	114.0 Secs			
									[==>(Pattern 1)]		[1]	
									[==>(Pattern 2)]			
3	F110W	(3) 2004QQ26	WFC3/IR, MULTIACCUM, IRSUB512	F110W	NSAMP=6; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]		
								[==>(Pattern 2)]				
4	F098M	(3) 2004QQ26	WFC3/IR, MULTIACCUM, IRSUB512	F098M	NSAMP=10; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]		
								[==>(Pattern 2)]				
5	F127M	(3) 2004QQ26	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]		
								[==>(Pattern 2)]				
6	F127M-2	(3) 2004QQ26	WFC3/IR, MULTIACCUM, IRSUB512	F127M	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-6 (2)	[==>(Pattern 1)]		[1]		
								[==>(Pattern 2)]				

