



16306 - Towards a more complete understanding of Haumea's family tree

Cycle: 28, Proposal Category: SNAP

(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) 2013RM98	WFC3/IR WFC3/UVIS	1	05-Oct-2020 10:00:17.0	yes
02	(2) 2013UQ15	WFC3/IR WFC3/UVIS	1	05-Oct-2020 10:00:19.0	yes
03	(3) 2015AJ281	WFC3/IR WFC3/UVIS	1	05-Oct-2020 10:00:20.0	yes
04	(4) 2014LO28	WFC3/IR WFC3/UVIS	1	05-Oct-2020 10:00:21.0	yes

Proposal 16306 (STScI Edit Number: 0, Created: Monday, October 5, 2020 at 9:00:40 AM Eastern Standard Time) - Overview

<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>
05	(5) 2011JF31	WFC3/IR WFC3/UVIS	1	05-Oct-2020 10:00:22.0	yes
06	(6) 2014QW441	WFC3/IR WFC3/UVIS	1	05-Oct-2020 10:00:24.0	yes
07	(7) 2011CX119	WFC3/IR WFC3/UVIS	1	05-Oct-2020 10:00:25.0	yes
08	(8) 2014YB50	WFC3/IR WFC3/UVIS	1	05-Oct-2020 10:00:26.0	yes
09	(9) 2014FP43	WFC3/IR WFC3/UVIS	1	05-Oct-2020 10:00:27.0	yes
10	(10) 2011UK412	WFC3/IR WFC3/UVIS	1	05-Oct-2020 10:00:28.0	yes
11	(11) 2015FN345	WFC3/IR WFC3/UVIS	1	05-Oct-2020 10:00:30.0	yes
12	(12) 2007RX326	WFC3/IR WFC3/UVIS	1	05-Oct-2020 10:00:31.0	yes
13	(13) 2013NK24	WFC3/IR WFC3/UVIS	1	05-Oct-2020 10:00:32.0	yes
14	(14) 2010OO127	WFC3/IR WFC3/UVIS	1	05-Oct-2020 10:00:33.0	yes
15	(15) 2012YF12	WFC3/IR WFC3/UVIS	1	05-Oct-2020 10:00:34.0	yes
16	(16) 2007FM51	WFC3/IR WFC3/UVIS	1	05-Oct-2020 10:00:35.0	yes
17	(17) 2010VV224	WFC3/IR WFC3/UVIS	1	05-Oct-2020 10:00:36.0	yes
18	(18) 2014FT71	WFC3/IR WFC3/UVIS	1	05-Oct-2020 10:00:37.0	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>
19	(19) 2014QA442	WFC3/IR WFC3/UVIS	1	05-Oct-2020 10:00:38.0	yes
20	(20) 2010RF64	WFC3/IR WFC3/UVIS	1	05-Oct-2020 10:00:39.0	yes

20 Total Orbits Used

ABSTRACT

The dwarf planet Haumea is the only object in the trans-Neptunian population known to be the parent body of a collisional family. The accepted family of objects share extremely low delta-V values relative to Haumea, and very strong water ice absorption bands (like Haumea itself). Several collisional-formation mechanisms for the family have been proposed, but none of these models seem to satisfy all of the physical and dynamical properties of Haumea and its family. This could reflect problems with the models, but could also be a result of an incomplete census of the family resulting in biases such as the very low delta-V, incorrect inferred size distribution, a paucity of fainter (low albedo and/or smaller) objects, or combinations of those biases. In recent years, deep surveys in the trans-Neptunian region have detected new objects that could be part of the family. A recent dynamical study by Proudfoot and Ragozzine (2019) has identified new objects with comparably low delta-V values to the accepted family members, many of which are too faint to be effectively characterized from the ground. Here we propose SNAP observations of 20 of these fainter targets using HST/WFC3 in the F139M and F153M filters in order to characterize the strength of their 1.5 micron water-ice absorption, and test whether any of them possess stronger absorptions than were found in previous large WFC3 studies of TNOs.

OBSERVING DESCRIPTION

Our complete sample will be observed using the WCF3 with both visible (UVIS) and infrared (IR) configurations, with one visit per object. Each visit is composed of 4 exposure using 3 different filters in the following sequence: F606W-F139M-F153M-F606W. We propose a 2-point dithered for each exposure in order to remove bad pixel and cosmic ray strikes. Therefore, two different patterns have been defined (one per configuration). The WCF3-IR dither will be executed using 0.636 arcseconds point spacing and a pattern orientation of 41.788. The WCF3-UVIS dither will be executed using 0.145 arcseconds point spacing and a pattern orientation of 46.84. The exposure time for each object has been calculated using the Hubble exposure time calculator depending on the magnitude and the desired goal for the proposal. For the WCF3-UVIS, we have selected the FLAS number to obtain background levels over 20 electrons/pix. We have also chosen the C512C UVIS aperture to ensure all data are downloaded without time wasted on unnecessary buffer dumps. For the WCF3-IR, for the shorter exposures, we have selected SPARS10 with aperture IR, or IRSUB256

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when needed to avoid buffer dump. For the longer exposures, we chose SPARS25 with aperture IR. the NSEQ was chosen depending on the required exposure time.

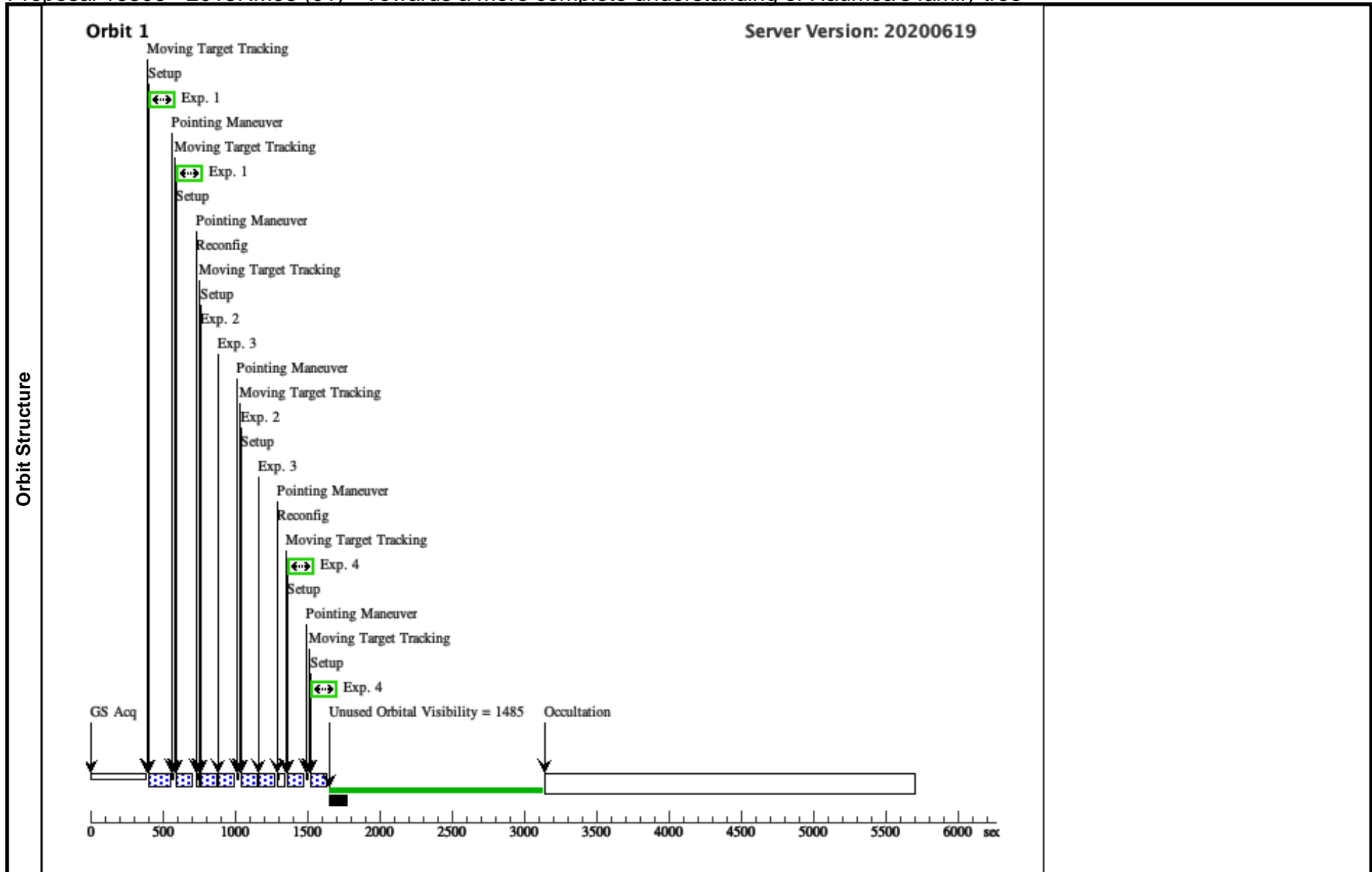
Proposal 16306 - 2013RM98 (01) - Towards a more complete understanding of Haumea's family tree

Mon Oct 05 14:00:40 GMT 2020

Visit	Proposal 16306, 2013RM98 (01), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)						
	(F606W (01.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (F606W (01.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser						
Diagnosics							
Patterns	#	Primary Pattern		Secondary Pattern		Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(2-3)	
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (4)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(1)	2013RM98	TYPE=ASTEROID,A=43.2498996705 2296,E=0.1299025994614711,I=28.13 360335316736 ,O=352.4446501519636,W=251.81501 13070092,M=96.40515930426787,EQ UINOX=J2000,EPOCH=14-MAY- 2014:00:00:00,EpochTimeScale=TDB				EARTH
Comments: Description=ASTEROID (471954) 2013 RM98 Extended=NO							

Proposal 16306 - 2013RM98 (01) - Towards a more complete understanding of Haumea's family tree

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F606W	(1) 2013RM98	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=18		Sequence 1-4 Non-Int in 2013RM98 (01)	65 Secs (130 Secs)	
								Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in 2013RM98 (01) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F139M	(1) 2013RM98	WFC3/IR, MULTIACCUM, IRSUB256	F139M	NSAMP=12; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2013RM98 (01)	81.089172 Secs (162.178 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2013RM98 (01) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
3	153M	(1) 2013RM98	WFC3/IR, MULTIACCUM, IRSUB256	F153M	NSAMP=15; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2013RM98 (01)	103.128633 Secs (206.257 Secs)		
							Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2013RM98 (01) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
4	F606W	(1) 2013RM98	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=18		Sequence 1-4 Non-Int in 2013RM98 (01)	65 Secs (130 Secs)		
							Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in 2013RM98 (01) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	



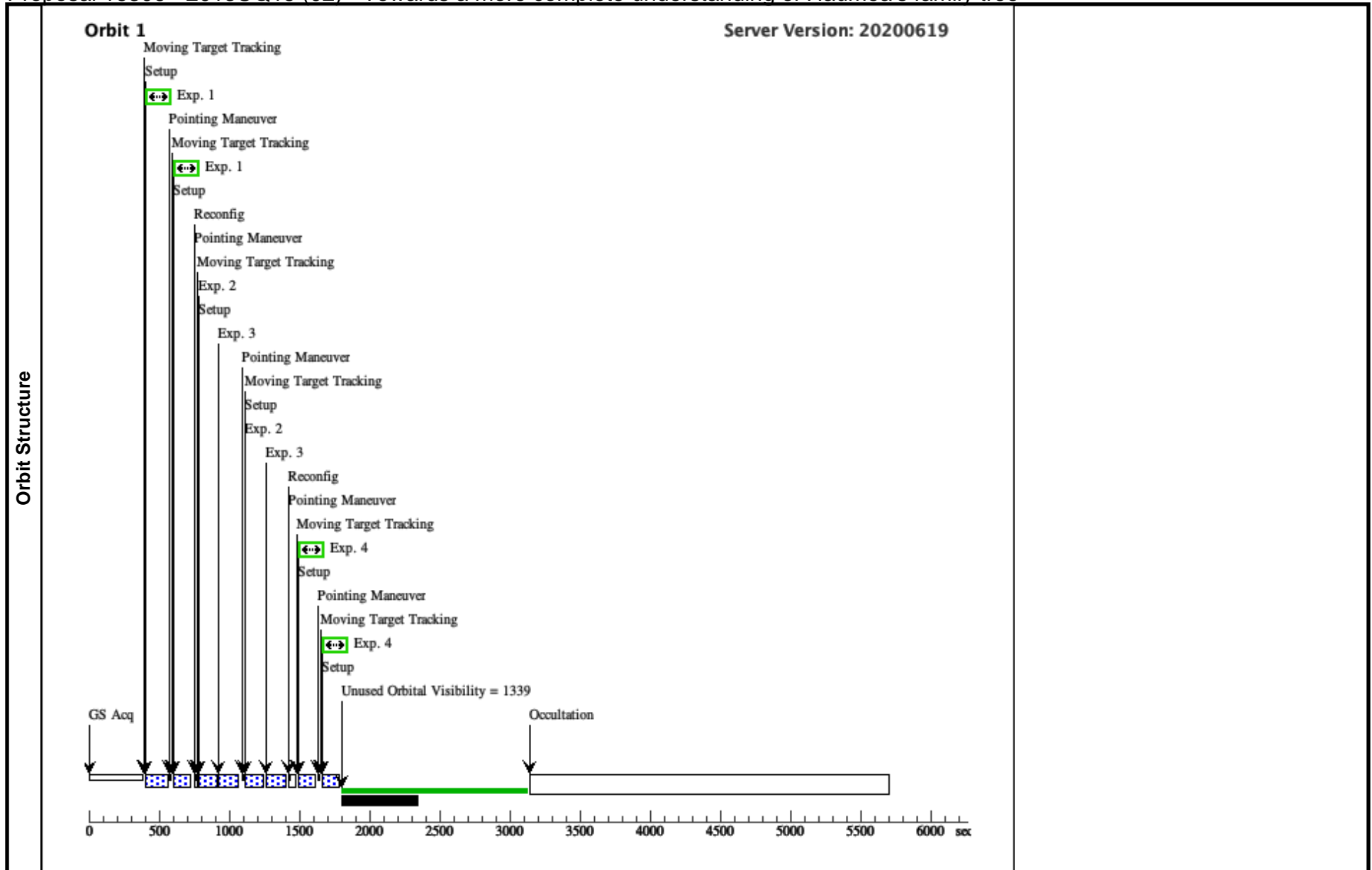
Proposal 16306 - 2013UQ15 (02) - Towards a more complete understanding of Haumea's family tree

Mon Oct 05 14:00:40 GMT 2020

Visit	Proposal 16306, 2013UQ15 (02), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)						
	(F606W (02.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (F606W (02.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser						
Diagnosics							
Patterns	#	Primary Pattern		Secondary Pattern		Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(2-3)	
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (4)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(2)	2013UQ15	TYPE=ASTEROID,A=42.7281660729 6012,E=0.113688217190971,I=27.383 91887776801 ,O=189.1456202083801,W=14.689749 05388398,M=171.2165719569819,EQ UINOX=J2000,EPOCH=04-OCT- 2014:00:00:00,EpochTimeScale=TDB				EARTH
Comments: Description=ASTEROID 2013 UQ15 Extended=NO							

Proposal 16306 - 2013UQ15 (02) - Towards a more complete understanding of Haumea's family tree

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F606W	(2) 2013UQ15	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=18		Sequence 1-4 Non-Int in 2013UQ15 (02)	75 Secs (150 Secs)	
								Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in 2013UQ15 (02) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F139M	(2) 2013UQ15	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=5; SAMP-SEQ=SPAR S25		Sequence 1-4 Non-Int in 2013UQ15 (02)	102.934351 Secs (205.869 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2013UQ15 (02) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
3	F153M	(2) 2013UQ15	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=6; SAMP-SEQ=SPAR S25		Sequence 1-4 Non-Int in 2013UQ15 (02)	127.934866 Secs (255.87 Secs)		
							Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2013UQ15 (02) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
4	F606W	(2) 2013UQ15	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=18		Sequence 1-4 Non-Int in 2013UQ15 (02)	75 Secs (150 Secs)		
							Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in 2013UQ15 (02) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	



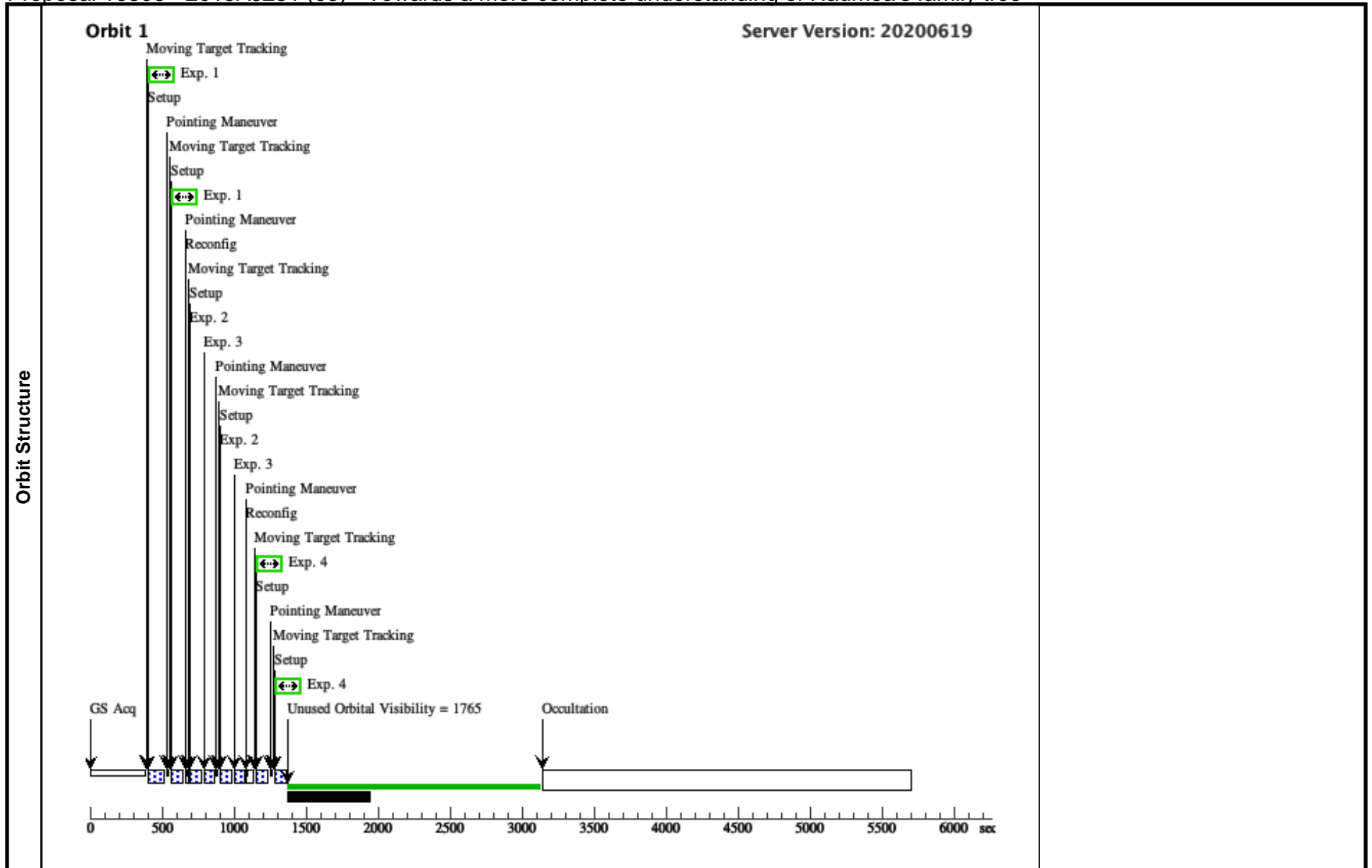
Proposal 16306 - 2015AJ281 (03) - Towards a more complete understanding of Haumea's family tree

Mon Oct 05 14:00:40 GMT 2020

Visit	Proposal 16306, 2015AJ281 (03), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)						
	(F606W (03.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (F606W (03.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser						
Diagnosics							
Patterns	#	Primary Pattern		Secondary Pattern		Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(2-3)	
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (4)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(3)	2015AJ281	TYPE=ASTEROID,A=43.5665997171 6671,E=0.1288129160125117,I=26.80 833441990512 ,O=256.016876695683,W=4.44233557 2964073,M=283.1636890647081,EQU INOX=J2000,EPOCH=30-MAY- 2016:00:00:00,EpochTimeScale=TDB				EARTH
Comments: Description=ASTEROID 2015 AJ281 Extended=NO							

Proposal 16306 - 2015AJ281 (03) - Towards a more complete understanding of Haumea's family tree

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F606W	(3) 2015AJ281	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=20		Sequence 1-4 Non-Int in 2015AJ281 (03)	30 Secs (60 Secs)	
								Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in 2015AJ281 (03) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F139M	(3) 2015AJ281	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=6; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2015AJ281 (03)	52.937106 Secs (105.874 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2015AJ281 (03) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
3	F153M	(3) 2015AJ281	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=6; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2015AJ281 (03)	52.937106 Secs (105.874 Secs)		
							Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2015AJ281 (03) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
4	F606W	(3) 2015AJ281	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=20		Sequence 1-4 Non-Int in 2015AJ281 (03)	30 Secs (60 Secs)		
							Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in 2015AJ281 (03) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	



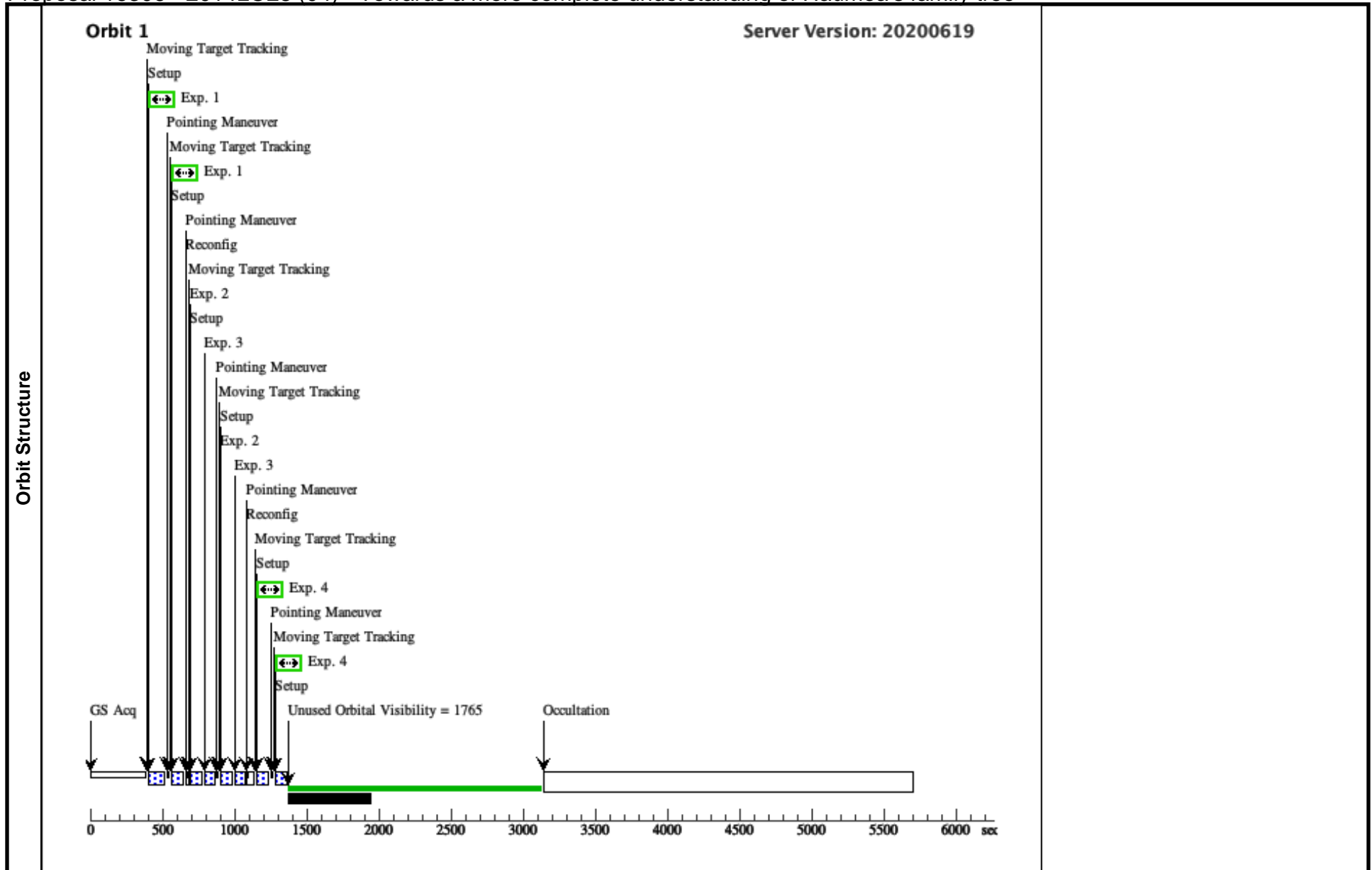
Proposal 16306 - 2014LO28 (04) - Towards a more complete understanding of Haumea's family tree

Mon Oct 05 14:00:40 GMT 2020

Visit	Proposal 16306, 2014LO28 (04), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)						
	Diagnosics (F606W (04.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (F606W (04.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser						
Patterns	#	Primary Pattern		Secondary Pattern		Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(2-3)	
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (4)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(4)	2014LO28	TYPE=ASTEROID,A=42.7862112105 979,E=0.117432758059132,I=25.6350 0004248796 ,O=287.280273265224,W=108.813413 4523673,M=301.868214807007,EQUI NOX=J2000,EPOCH=19-DEC- 2014:00:00:00,EpochTimeScale=TDB				EARTH
Comments: Description=ASTEROID 2014 LO28 Extended=NO							

Proposal 16306 - 2014LO28 (04) - Towards a more complete understanding of Haumea's family tree

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F606W	(4) 2014LO28	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=20		Sequence 1-4 Non-Int in 2014LO28 (04)	30 Secs (60 Secs)	
								Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in 2014LO28 (04) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F139M	(4) 2014LO28	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=6; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2014LO28 (04)	52.937106 Secs (105.874 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2014LO28 (04) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
3	F153M	(4) 2014LO28	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=6; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2014LO28 (04)	52.937106 Secs (105.874 Secs)		
							Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2014LO28 (04) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
4	F606W	(4) 2014LO28	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=20		Sequence 1-4 Non-Int in 2014LO28 (04)	30 Secs (60 Secs)		
							Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in 2014LO28 (04) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	



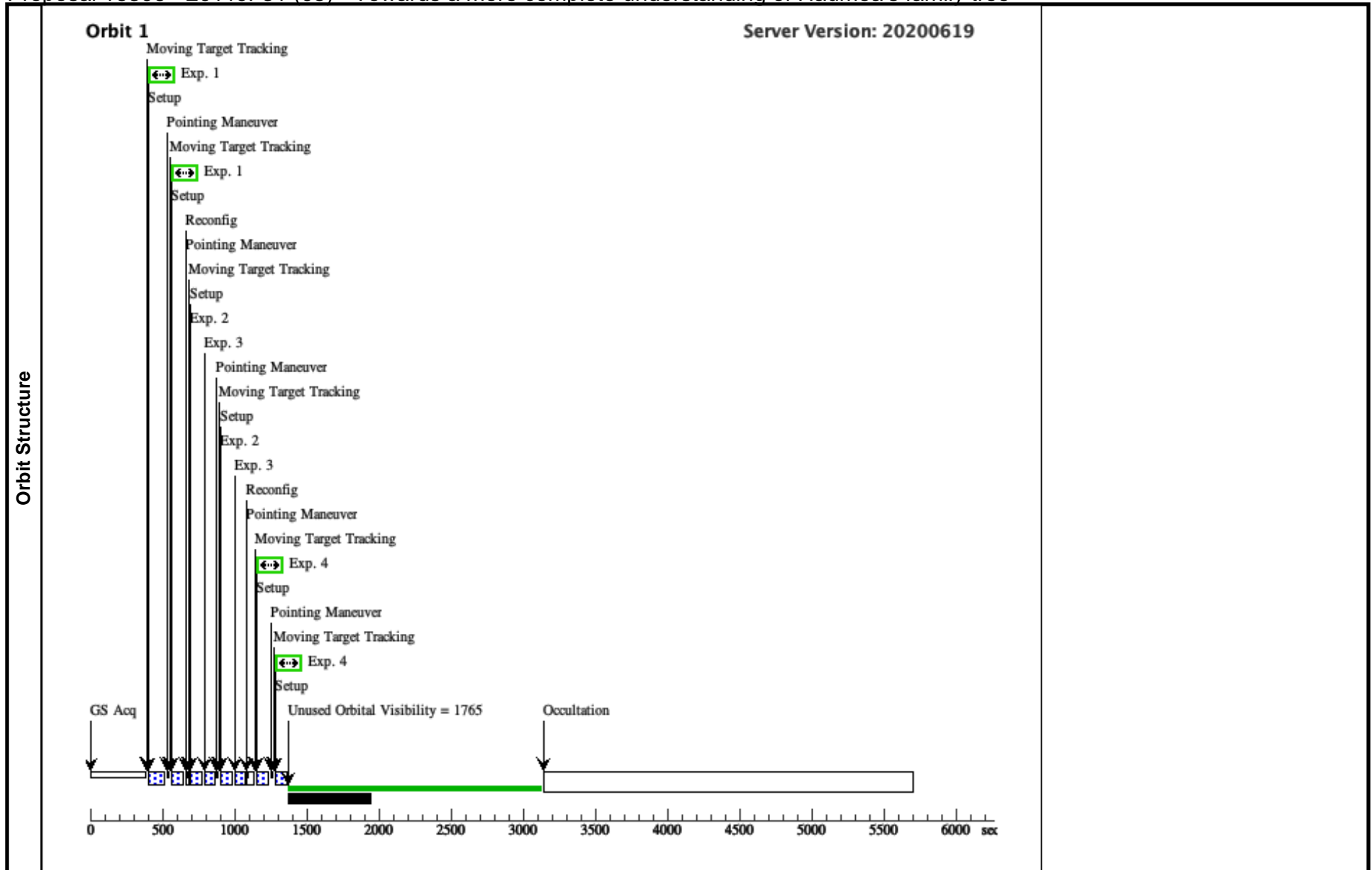
Proposal 16306 - 2011JF31 (05) - Towards a more complete understanding of Haumea's family tree

Mon Oct 05 14:00:40 GMT 2020

Visit	Proposal 16306, 2011JF31 (05), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)						
	Diagnosics (F606W (05.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (F6060W (05.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser						
Patterns	#	Primary Pattern		Secondary Pattern		Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(2-3)	
(2)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (4)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(5)	2011JF31	TYPE=ASTEROID,A=41.4541631621 5275,E=0.1355229411480321,I=27.75 764599048403 ,O=236.7866338426511,W=251.82315 00524173,M=85.2928607631747,EQU INOX=J2000,EPOCH=19-MAR- 2014:00:00:00,EpochTimeScale=TDB				EARTH
Comments: Description=ASTEROID (471318) 2011 JF31 Extended=NO							

Proposal 16306 - 2011JF31 (05) - Towards a more complete understanding of Haumea's family tree

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F606W	(5) 2011JF31	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=20		Sequence 1-4 Non-Int in 2011JF31 (05) Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in 2011JF31 (05) (2)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F139M	(5) 2011JF31	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=6; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2011JF31 (05) Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2011JF31 (05) (1)	52.937106 Secs (105.874 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F153M	(5) 2011JF31	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=6; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2011JF31 (05) Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2011JF31 (05) (1)	52.937106 Secs (105.874 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F6060W	(5) 2011JF31	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=20		Sequence 1-4 Non-Int in 2011JF31 (05) Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in 2011JF31 (05) (2)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



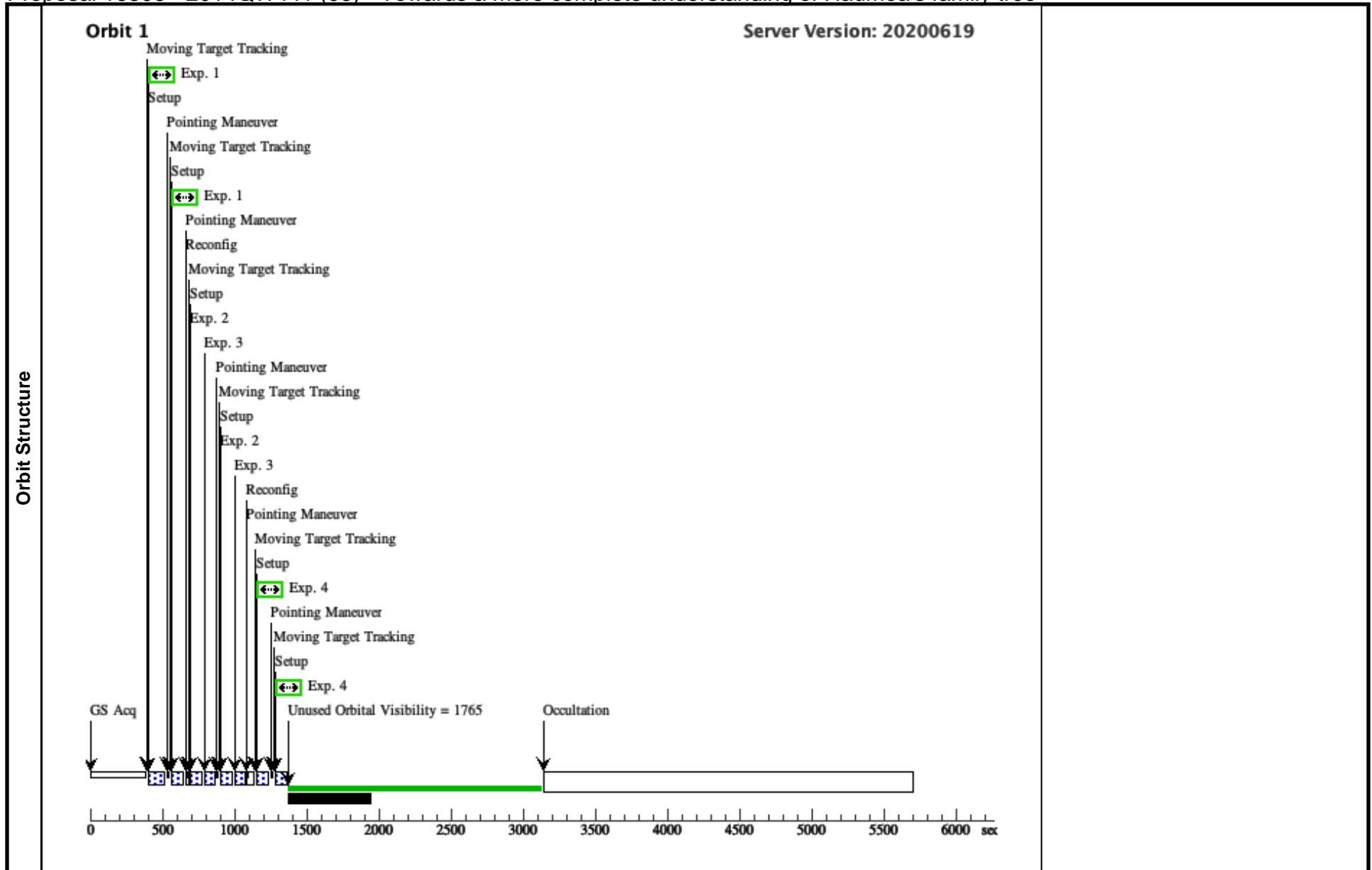
Proposal 16306 - 2014QW441 (06) - Towards a more complete understanding of Haumea's family tree

Mon Oct 05 14:00:40 GMT 2020

Visit	Proposal 16306, 2014QW441 (06), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)						
	(F606W (06.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (F606W (06.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser						
Diagnosics							
Patterns	#	Primary Pattern		Secondary Pattern		Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(2-3)	
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (4)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(6)	2014QW441	TYPE=ASTEROID,A=44.2134959062 6058,E=0.1015444483279862,I=28.85 620054873458 .O=162.7597504619206,W=204.98498 87044725,M=351.8136429455685,EQ UINOX=J2000,EPOCH=10-AUG- 2014:00:00:00,EpochTimeScale=TDB				EARTH
Comments: Description=ASTEROID 2014 QW441 Extended=NO							

Proposal 16306 - 2014QW441 (06) - Towards a more complete understanding of Haumea's family tree

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F606W	(6) 2014QW441	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=20		Sequence 1-4 Non-Int in 2014QW441 (06)	30 Secs (60 Secs)	
								Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in 2014QW441 (06) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F139M	(6) 2014QW441	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=6; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2014QW441 (06)	52.937106 Secs (105.874 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2014QW441 (06) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
3	F153M	(6) 2014QW441	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=6; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2014QW441 (06)	52.937106 Secs (105.874 Secs)		
							Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2014QW441 (06) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
4	F606W	(6) 2014QW441	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=20		Sequence 1-4 Non-Int in 2014QW441 (06)	30 Secs (60 Secs)		
							Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in 2014QW441 (06) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	



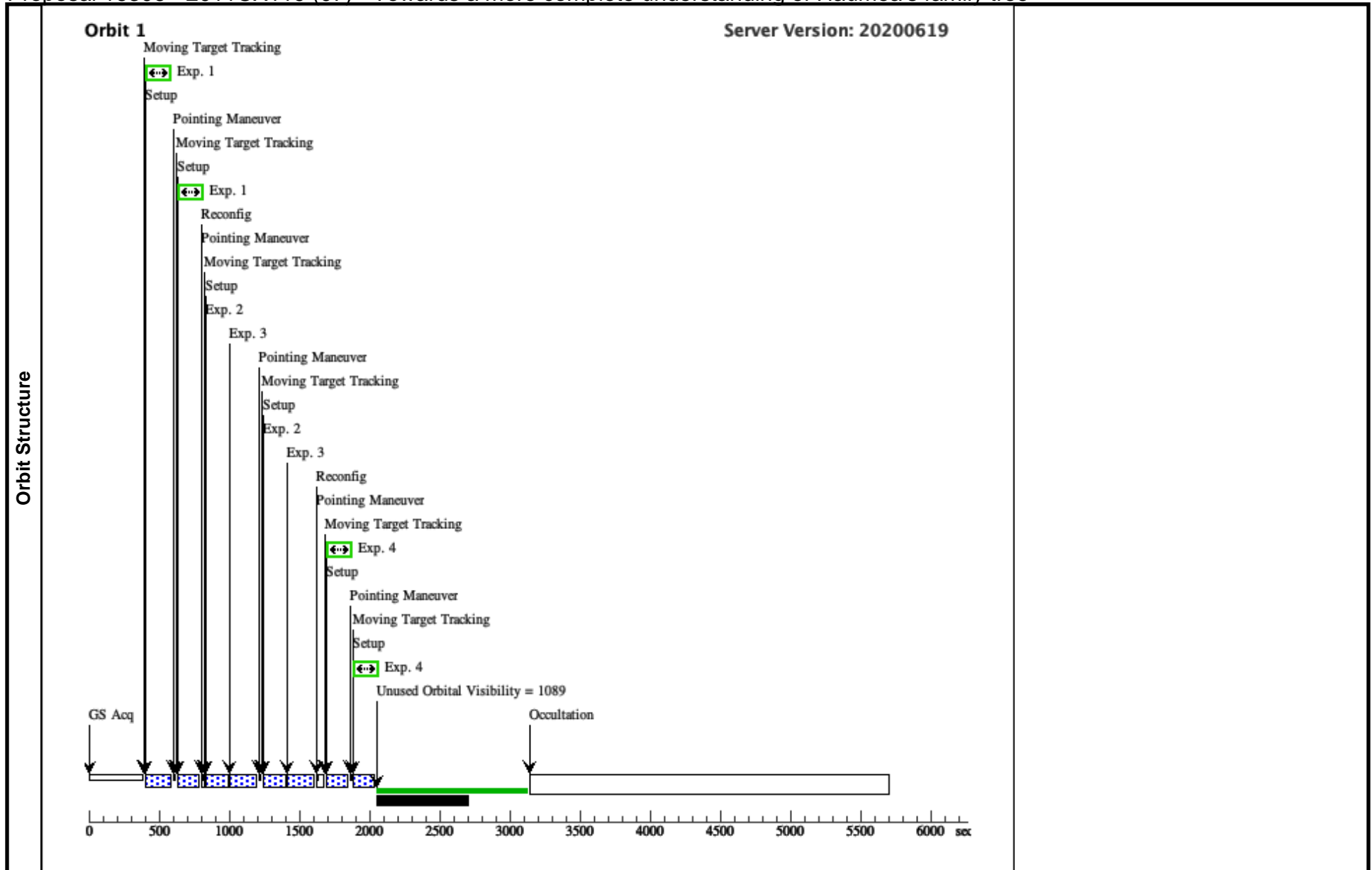
Proposal 16306 - 2011CX119 (07) - Towards a more complete understanding of Haumea's family tree

Mon Oct 05 14:00:40 GMT 2020

Visit	Proposal 16306, 2011CX119 (07), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)						
	(F606W (07.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (F606W (07.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser						
Diagnosics							
Patterns	#	Primary Pattern		Secondary Pattern		Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(2-3)	
	(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (4)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(7)	2011CX119	TYPE=ASTEROID,A=41.8118874079 0768,E=0.1430791730210786,I=27.37 603400038875 ,O=323.7769981740703,W=67.797121 67763027,M=112.9703547719638,EQ UINOX=J2000,EPOCH=23-JUN- 2012:00:00:00,EpochTimeScale=TDB				EARTH
Comments: Description=ASTEROID 2011 CX119 Extended=NO							

Proposal 16306 - 2011CX119 (07) - Towards a more complete understanding of Haumea's family tree

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F606W	(7) 2011CX119	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=17		Sequence 1-4 Non-Int in 2011CX119 (07)	100 Secs (200 Secs)	
								Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in 2011CX119 (07) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F139M	(7) 2011CX119	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=6; SAMP-SEQ=SPAR S25		Sequence 1-4 Non-Int in 2011CX119 (07)	127.934866 Secs (255.87 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2011CX119 (07) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
3	F153M	(7) 2011CX119	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=8; SAMP-SEQ=SPAR S25		Sequence 1-4 Non-Int in 2011CX119 (07)	177.935896 Secs (355.872 Secs)		
							Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2011CX119 (07) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
4	F606W	(7) 2011CX119	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=17		Sequence 1-4 Non-Int in 2011CX119 (07)	100 Secs (200 Secs)		
							Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in 2011CX119 (07) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	



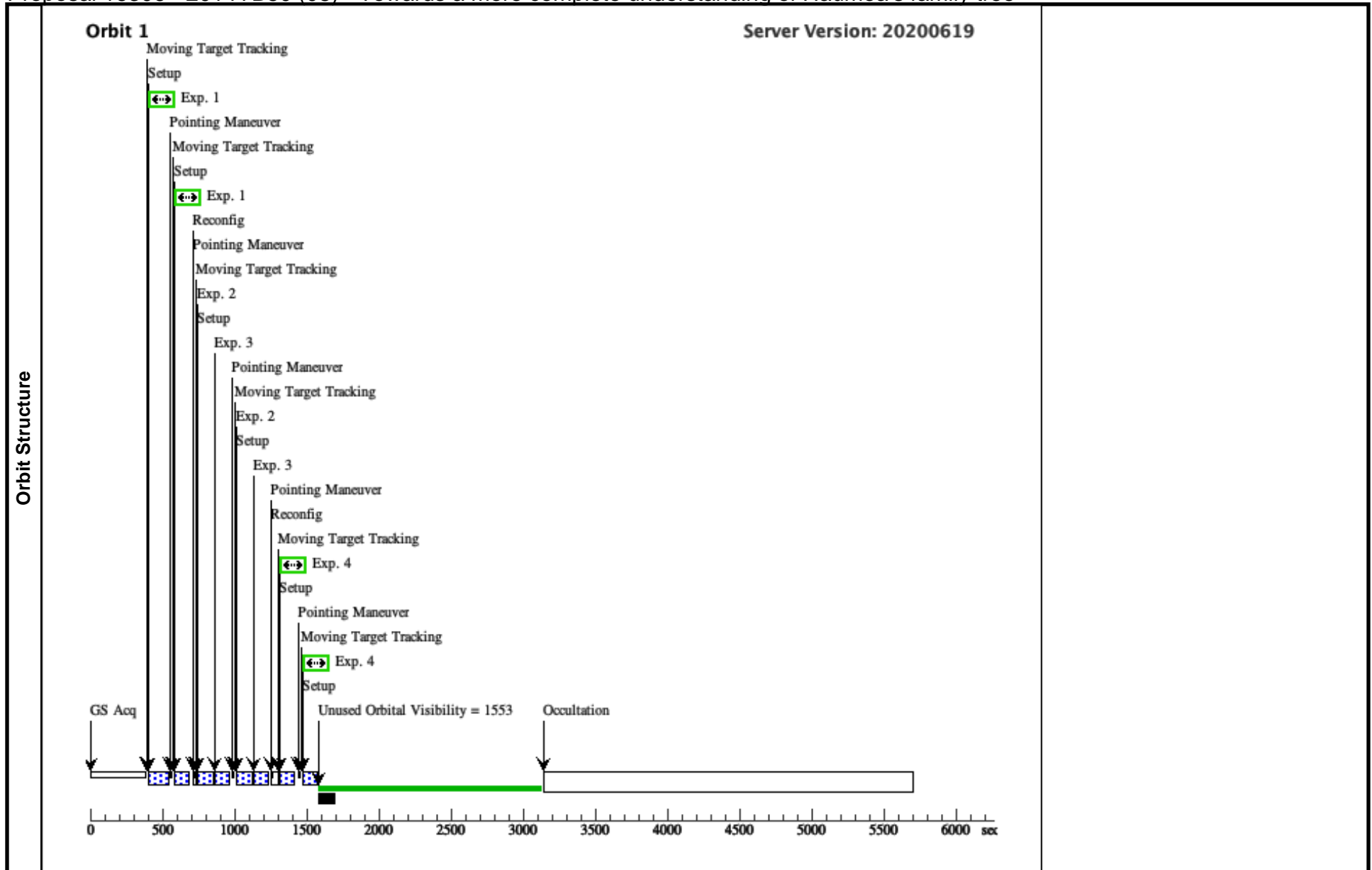
Proposal 16306 - 2014YB50 (08) - Towards a more complete understanding of Haumea's family tree

Mon Oct 05 14:00:41 GMT 2020

Visit	Proposal 16306, 2014YB50 (08), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)						
	(F606W (08.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (F606W (08.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser						
Diagnosics							
Patterns	#	Primary Pattern		Secondary Pattern		Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(2-3)	
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (4)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(8)	2014YB50	TYPE=ASTEROID,A=41.8032671484 9006,E=0.09960336147240416,I=28.5 842440041489 ,O=104.0124714567915,W=36.049908 25640351,M=342.1216115642222,EQ UINOX=J2000,EPOCH=20-NOV- 2015:00:00:00,EpochTimeScale=TDB				EARTH
Comments: Description=ASTEROID (523776) 2014 YB50 Extended=NO							

Proposal 16306 - 2014YB50 (08) - Towards a more complete understanding of Haumea's family tree

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F606W	(8) 2014YB50	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=19		Sequence 1-4 Non-Int in 2014YB50 (08)	55 Secs (110 Secs)	
								Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in 2014YB50 (08) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F139M	(8) 2014YB50	WFC3/IR, MULTIACCUM, IRSUB256	F139M	NSAMP=12; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2014YB50 (08)	81.089172 Secs (162.178 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2014YB50 (08) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
3	F153M	(8) 2014YB50	WFC3/IR, MULTIACCUM, IRSUB256	F153M	NSAMP=13; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2014YB50 (08)	88.435659 Secs (176.871 Secs)		
							Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2014YB50 (08) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
4	F606W	(8) 2014YB50	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=19		Sequence 1-4 Non-Int in 2014YB50 (08)	55 Secs (110 Secs)		
							Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in 2014YB50 (08) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	



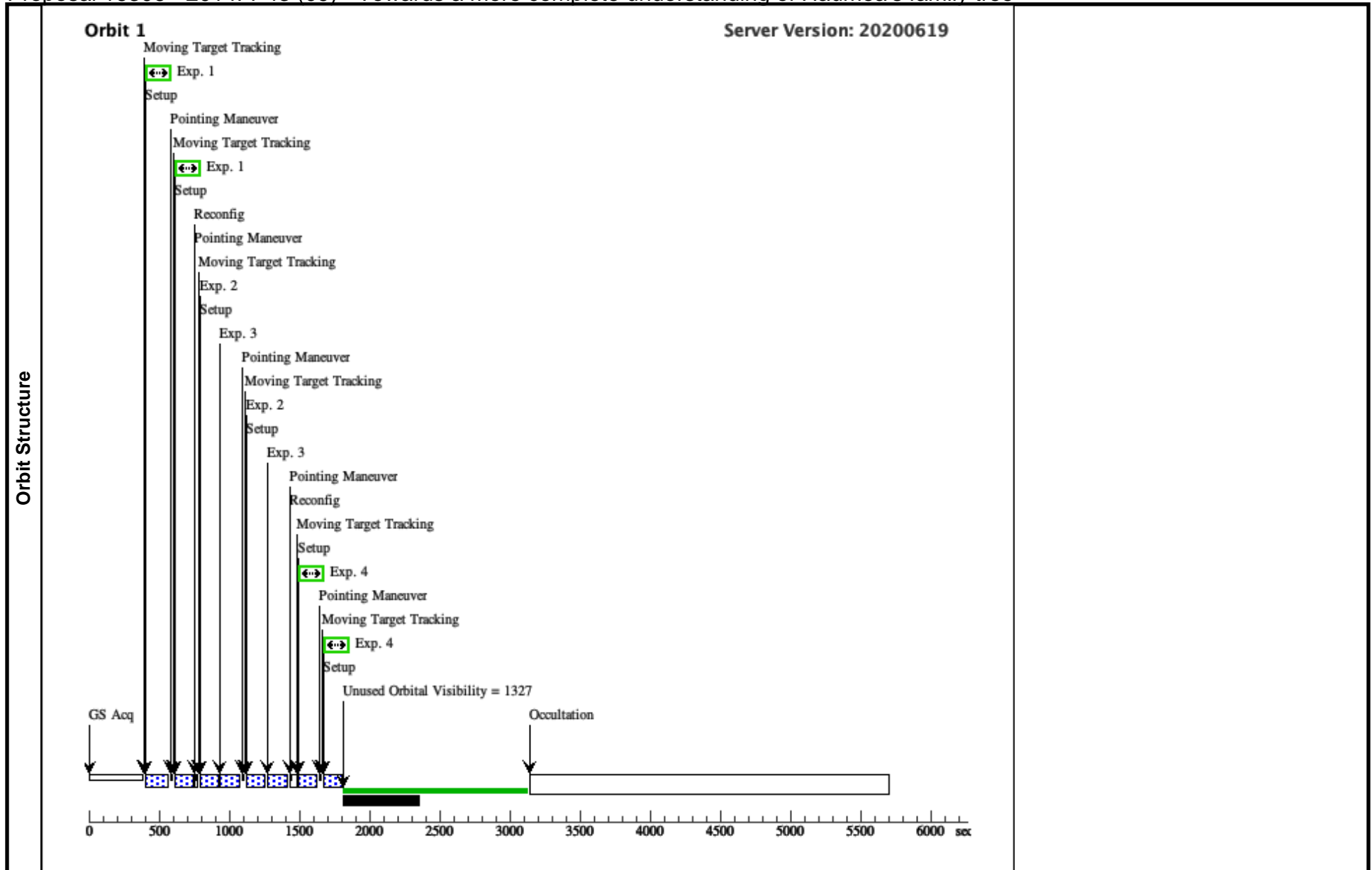
Proposal 16306 - 2014FP43 (09) - Towards a more complete understanding of Haumea's family tree

Mon Oct 05 14:00:41 GMT 2020

Visit	Proposal 16306, 2014FP43 (09), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
	(F606W (09.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (F606W (09.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(2-3)		
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1), (4)			
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window
	(9)	2014FP43	TYPE=ASTEROID,A=45.0822765967 0239,E=0.1566903377281217,I=28.19 056356180981 ,O=5.522026555170151,W=129.89020 87569722,M=31.59143654219522,EQ UINOX=J2000,EPOCH=06-SEP- 2014:00:00:00,EpochTimeScale=TDB			
Comments: Description=ASTEROID 2014 FP43 Extended=NO						

Proposal 16306 - 2014FP43 (09) - Towards a more complete understanding of Haumea's family tree

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F606W	(9) 2014FP43	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=18		Sequence 1-4 Non-Int in 2014FP43 (09)	77.5 Secs (155 Secs)	
								Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in 2014FP43 (09) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F139M	(9) 2014FP43	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=5; SAMP-SEQ=SPAR S25		Sequence 1-4 Non-Int in 2014FP43 (09)	102.934351 Secs (205.869 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2014FP43 (09) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
3	F153M	(9) 2014FP43	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=6; SAMP-SEQ=SPAR S25		Sequence 1-4 Non-Int in 2014FP43 (09)	127.934866 Secs (255.87 Secs)		
							Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2014FP43 (09) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
4	F606W	(9) 2014FP43	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=18		Sequence 1-4 Non-Int in 2014FP43 (09)	77.5 Secs (155 Secs)		
							Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in 2014FP43 (09) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	



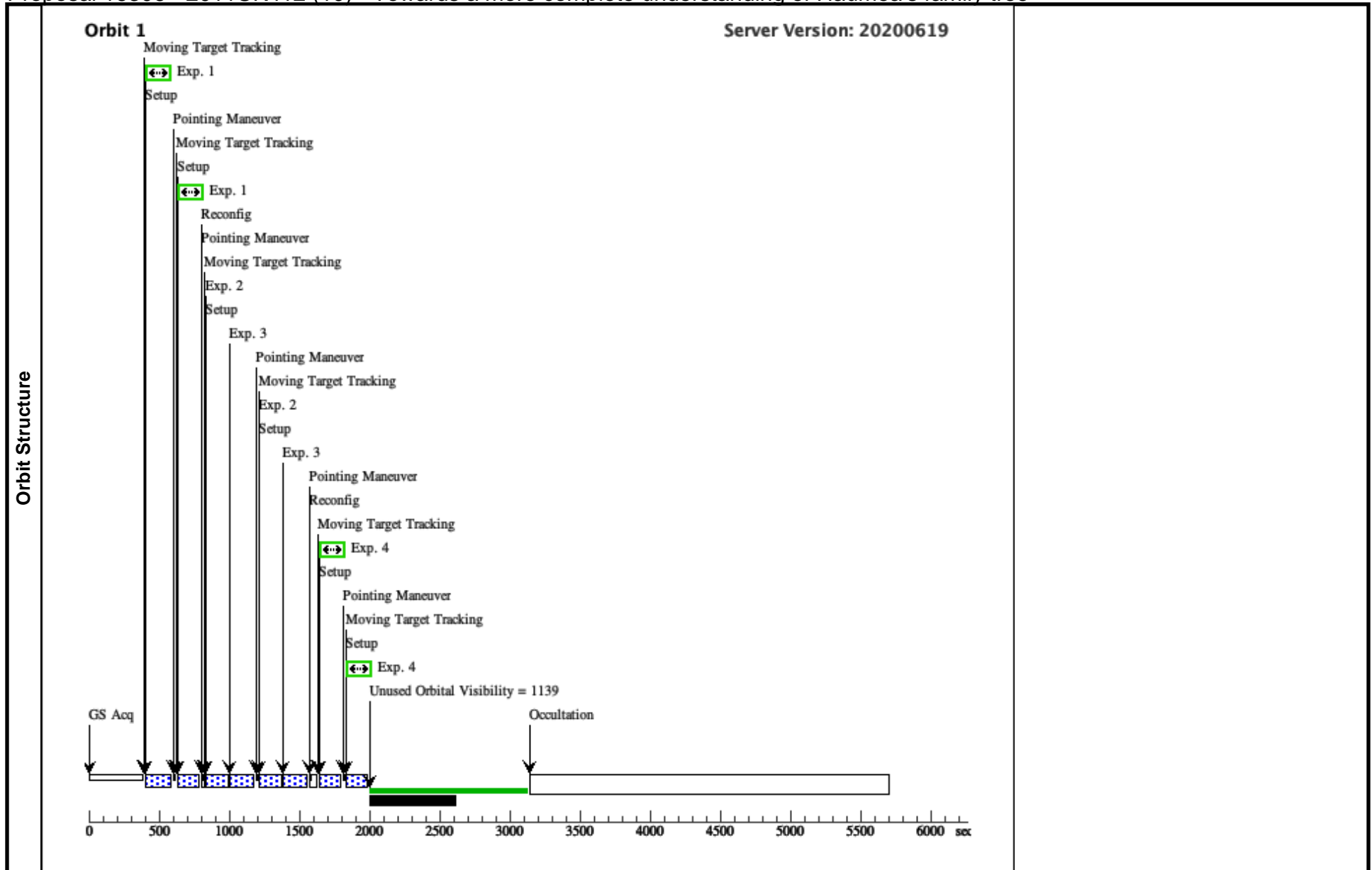
Proposal 16306 - 2011UK412 (10) - Towards a more complete understanding of Haumea's family tree

Mon Oct 05 14:00:41 GMT 2020

Visit	Proposal 16306, 2011UK412 (10), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)						
	(F606W (10.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (F606W (10.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser						
Diagnosics							
Patterns	#	Primary Pattern		Secondary Pattern		Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(2-3)	
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (4)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(10)	2011UK412	TYPE=ASTEROID,A=40.9720848099 3654,E=0.09671106008805865,I=26.3 1206719264776 ,O=218.9429805767139,W=153.06835 4687486,M=13.98802887648555,EQU INOX=J2000,EPOCH=29-APR- 2012:00:00:00,EpochTimeScale=TDB				EARTH
Comments: Description=ASTEROID 2011 UK412 Extended=NO							

Proposal 16306 - 2011UK412 (10) - Towards a more complete understanding of Haumea's family tree

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F606W	(10) 2011UK412	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=17		Sequence 1-4 Non-Int in 2011UK412 (10) Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in 2011UK412 (10) (2)	100 Secs (200 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F139M	(10) 2011UK412	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=6; SAMP-SEQ=SPAR S25		Sequence 1-4 Non-Int in 2011UK412 (10) Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2011UK412 (10) (1)	127.934866 Secs (255.87 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F153M	(10) 2011UK412	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=7; SAMP-SEQ=SPAR S25		Sequence 1-4 Non-Int in 2011UK412 (10) Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2011UK412 (10) (1)	152.935381 Secs (305.871 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F606W	(10) 2011UK412	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=17		Sequence 1-4 Non-Int in 2011UK412 (10) Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in 2011UK412 (10) (2)	100 Secs (200 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



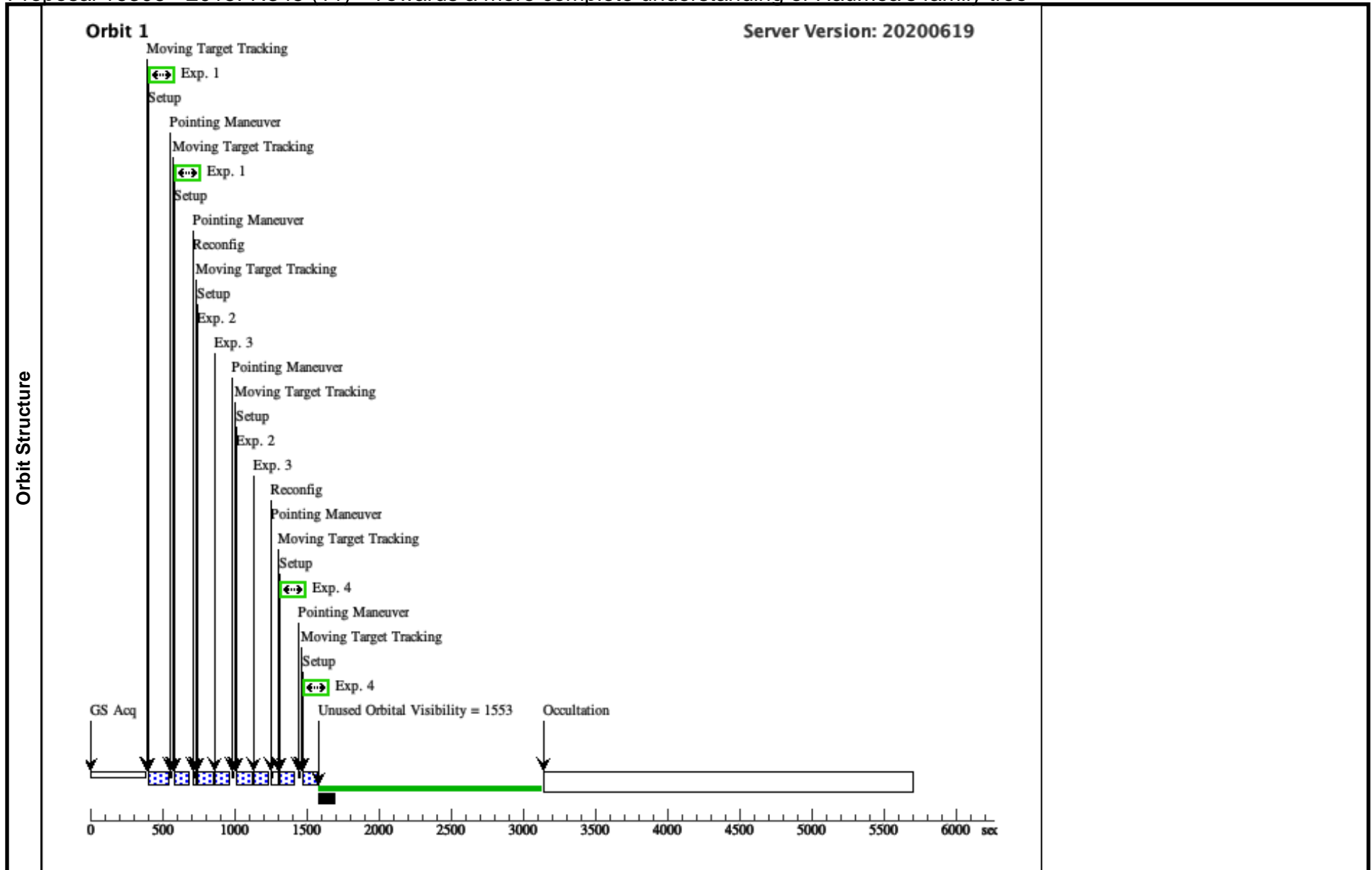
Proposal 16306 - 2015FN345 (11) - Towards a more complete understanding of Haumea's family tree

Mon Oct 05 14:00:41 GMT 2020

Visit	Proposal 16306, 2015FN345 (11), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)						
	(F606W (11.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (F606W (11.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser						
Diagnosics							
Patterns	#	Primary Pattern		Secondary Pattern		Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(2-3)	
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (4)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(11)	2015FN345	TYPE=ASTEROID,A=41.9526970559 6551,E=0.0931414182035819,I=27.94 050727914807 ,O=172.4289188940011,W=117.43321 76539522,M=316.4026824298885,EQ UINOX=J2000,EPOCH=15-JUL- 2015:00:00:00,EpochTimeScale=TDB				EARTH
Comments: Description=My Favourite Potential Family Member ASTEROID (523789) 2015 FN345 Extended=NO							

Proposal 16306 - 2015FN345 (11) - Towards a more complete understanding of Haumea's family tree

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F606W	(11) 2015FN345	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=19		Sequence 1-4 Non-Int in 2015FN345 (11) Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in 2015FN345 (1) (2)	55 Secs (110 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F139M	(11) 2015FN345	WFC3/IR, MULTIACCUM, IRSUB256	F139M	NSAMP=12; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2015FN345 (11) Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2015FN345 (1) (1)	81.089172 Secs (162.178 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F153M	(11) 2015FN345	WFC3/IR, MULTIACCUM, IRSUB256	F153M	NSAMP=13; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2015FN345 (11) Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2015FN345 (1) (1)	88.435659 Secs (176.871 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F606W	(11) 2015FN345	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=19		Sequence 1-4 Non-Int in 2015FN345 (11) Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in 2015FN345 (1) (2)	55 Secs (110 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



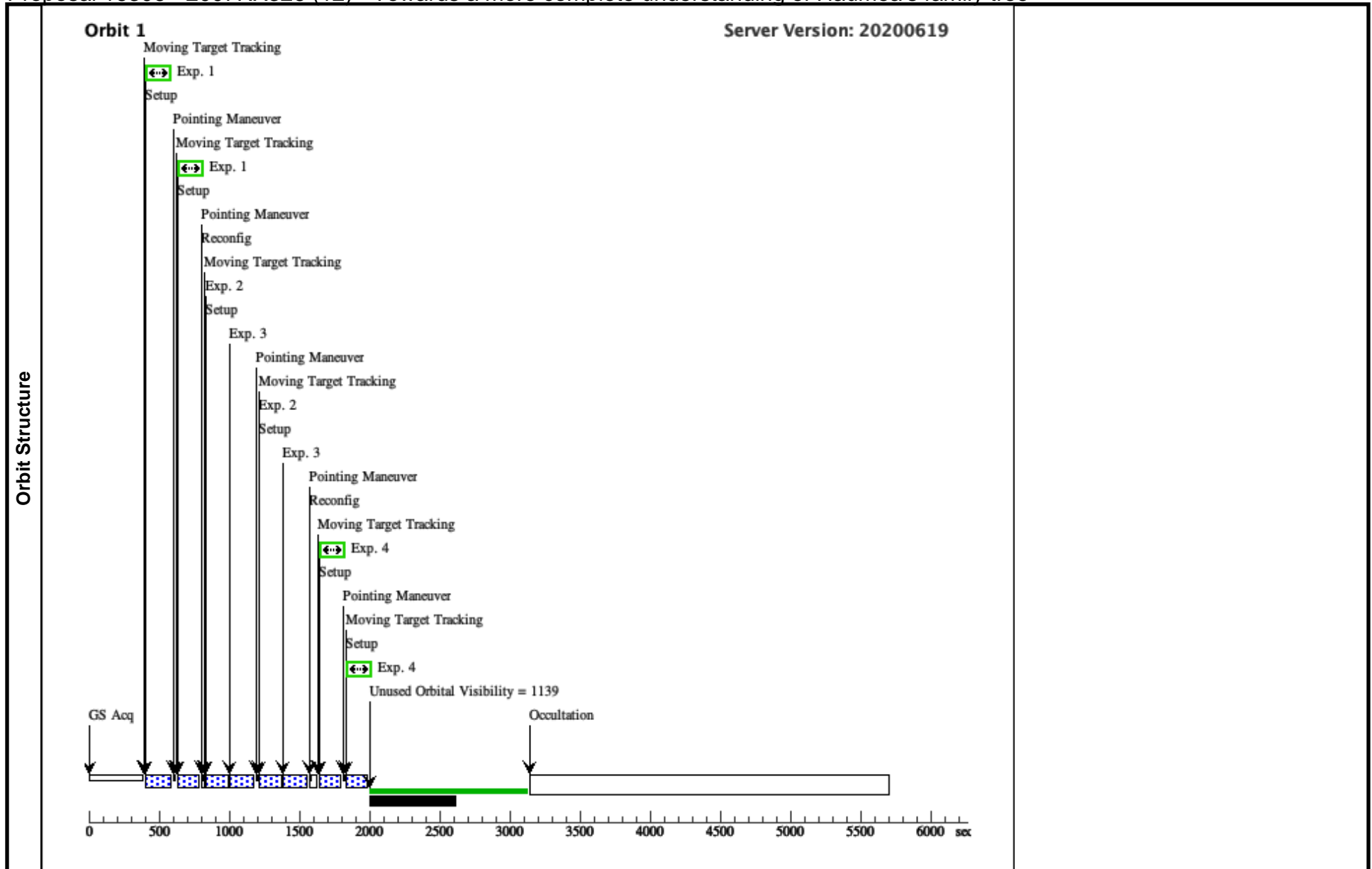
Proposal 16306 - 2007RX326 (12) - Towards a more complete understanding of Haumea's family tree

Mon Oct 05 14:00:41 GMT 2020

Visit	Proposal 16306, 2007RX326 (12), scheduled Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)						
	(F606W (12.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (F606W (12.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser						
Diagnosics							
Patterns	#	Primary Pattern		Secondary Pattern		Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(2-3)	
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (4)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(12)	2007RX326	TYPE=ASTEROID,A=46.3468184035 1615,E=0.1621110577298791,I=25.01 721030902401 ,O=264.3230881375602,W=51.673518 46483616,M=18.88614153729223,EQ UINOX=J2000,EPOCH=09-AUG- 2008:00:00:00,EpochTimeScale=TDB				EARTH
Comments: Description=ASTEROID 2007 RX326 Extended=NO							

Proposal 16306 - 2007RX326 (12) - Towards a more complete understanding of Haumea's family tree

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F606W	(12) 2007RX326	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=17		Sequence 1-4 Non-Int in 2007RX326 (12) Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in 2007RX326 (12) (2)	100 Secs (200 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F139M	(12) 2007RX326	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=6; SAMP-SEQ=SPAR S25		Sequence 1-4 Non-Int in 2007RX326 (12) Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2007RX326 (12) (1)	127.934866 Secs (255.87 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F153M	(12) 2007RX326	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=7; SAMP-SEQ=SPAR S25		Sequence 1-4 Non-Int in 2007RX326 (12) Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2007RX326 (12) (1)	152.935381 Secs (305.871 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F606W	(12) 2007RX326	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=17		Sequence 1-4 Non-Int in 2007RX326 (12) Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in 2007RX326 (12) (2)	100 Secs (200 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



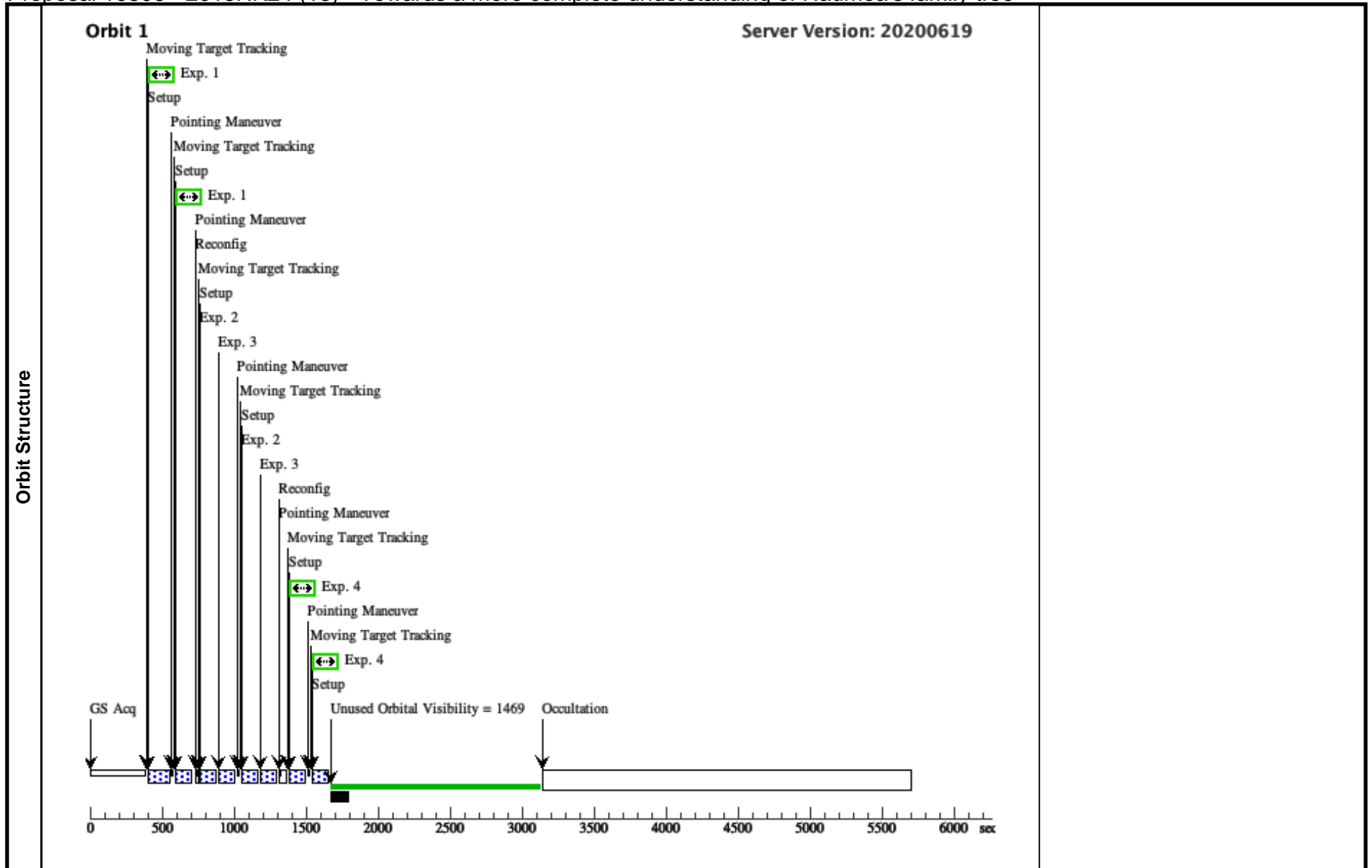
Proposal 16306 - 2013NK24 (13) - Towards a more complete understanding of Haumea's family tree

Mon Oct 05 14:00:41 GMT 2020

Visit	Proposal 16306, 2013NK24 (13), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)						
	(F606W (13.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (F606W (13.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser						
Diagnosics							
Patterns	#	Primary Pattern		Secondary Pattern		Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(2-3)	
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (4)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(13)	2013NK24	TYPE=ASTEROID,A=41.4794321840 5615,E=0.1408482372484671,I=26.85 034741173508 ,O=320.0532296178151,W=329.72336 66642183,M=10.79718082866574,EQ UINOX=J2000,EPOCH=25-FEB- 2015:00:00:00,EpochTimeScale=TDB				EARTH
Comments: Description=ASTEROID 2013 NK24 Extended=NO							

Proposal 16306 - 2013NK24 (13) - Towards a more complete understanding of Haumea's family tree

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F606W	(13) 2013NK24	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=19		Sequence 1-4 Non-Int in 2013NK24 (13)	65 Secs (130 Secs)	
								Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in 2013NK24 (13) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F139M	(13) 2013NK24	WFC3/IR, MULTIACCUM, IRSUB256	F139M	NSAMP=13; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2013NK24 (13)	88.435659 Secs (176.871 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2013NK24 (13) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
3	F153M	(13) 2013NK24	WFC3/IR, MULTIACCUM, IRSUB256	F153M	NSAMP=15; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2013NK24 (13)	103.128633 Secs (206.257 Secs)		
							Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2013NK24 (13) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
4	F606W	(13) 2013NK24	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=19		Sequence 1-4 Non-Int in 2013NK24 (13)	65 Secs (130 Secs)		
							Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in 2013NK24 (13) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	



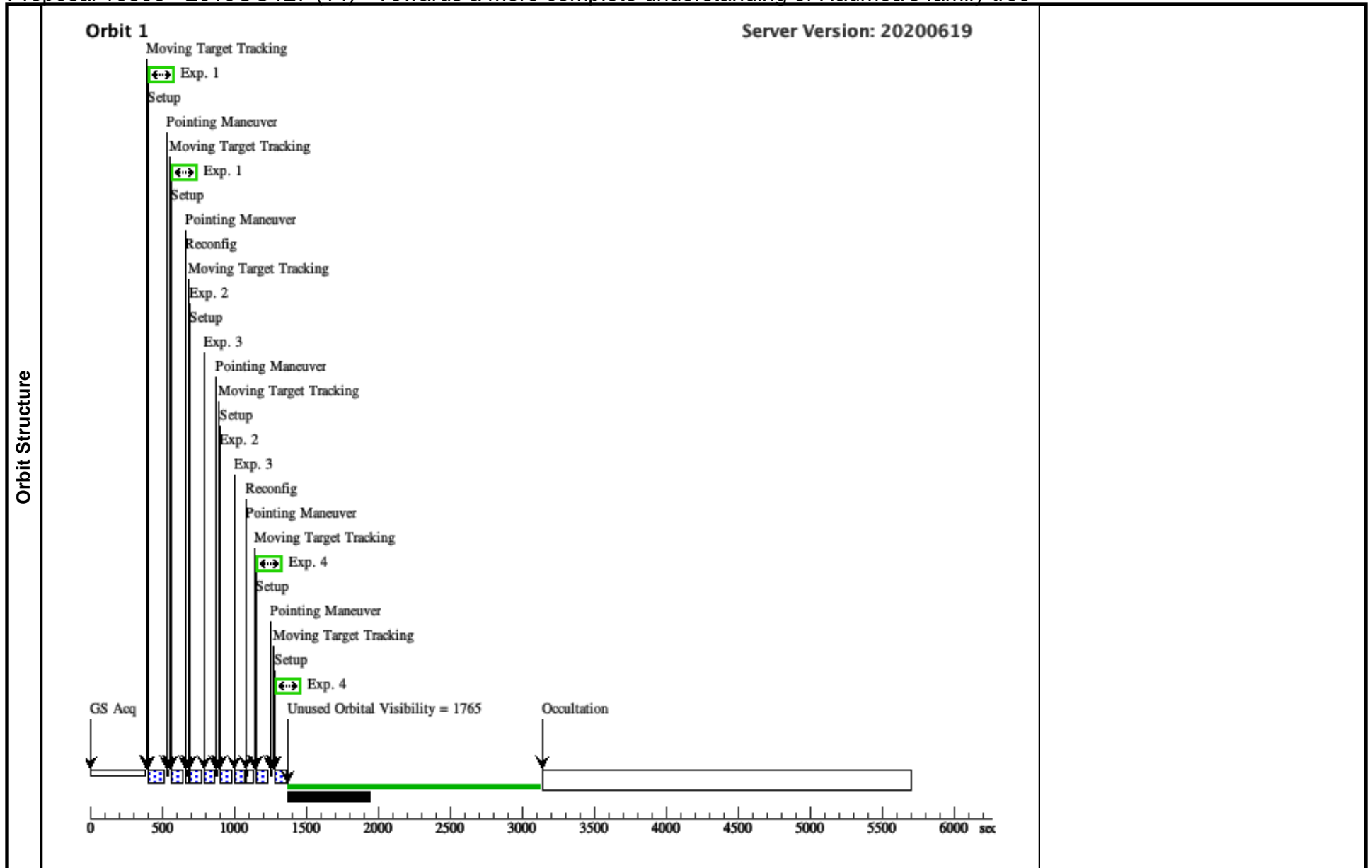
Proposal 16306 - 201000127 (14) - Towards a more complete understanding of Haumea's family tree

Mon Oct 05 14:00:41 GMT 2020

Visit	Proposal 16306, 201000127 (14), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
	(F606W (14.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (F606W (14.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern		Secondary Pattern		Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(2-3)
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (4)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window
	(14)	201000127	TYPE=ASTEROID,A=42.0218555021 3795,E=0.1337458580005862,I=25.90 24286681846 ,O=219.7917339071583,W=248.24584 34168038,M=235.8319006298474,EQ UINOX=J2000,EPOCH=21-MAY- 2015:00:00:00,EpochTimeScale=TDB			
Comments: Description=ASTEROID 201000127 Extended=NO						

Proposal 16306 - 2010OO127 (14) - Towards a more complete understanding of Haumea's family tree

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F606W	(14) 2010OO127	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=20		Sequence 1-4 Non-Int in 2010OO127 (14) Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in 2010OO127 (14) (2)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F139M	(14) 2010OO127	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=6; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2010OO127 (14) Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2010OO127 (14) (1)	52.937106 Secs (105.874 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F153M	(14) 2010OO127	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=6; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2010OO127 (14) Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2010OO127 (14) (1)	52.937106 Secs (105.874 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F606W	(14) 2010OO127	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=20		Sequence 1-4 Non-Int in 2010OO127 (14) Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in 2010OO127 (14) (2)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



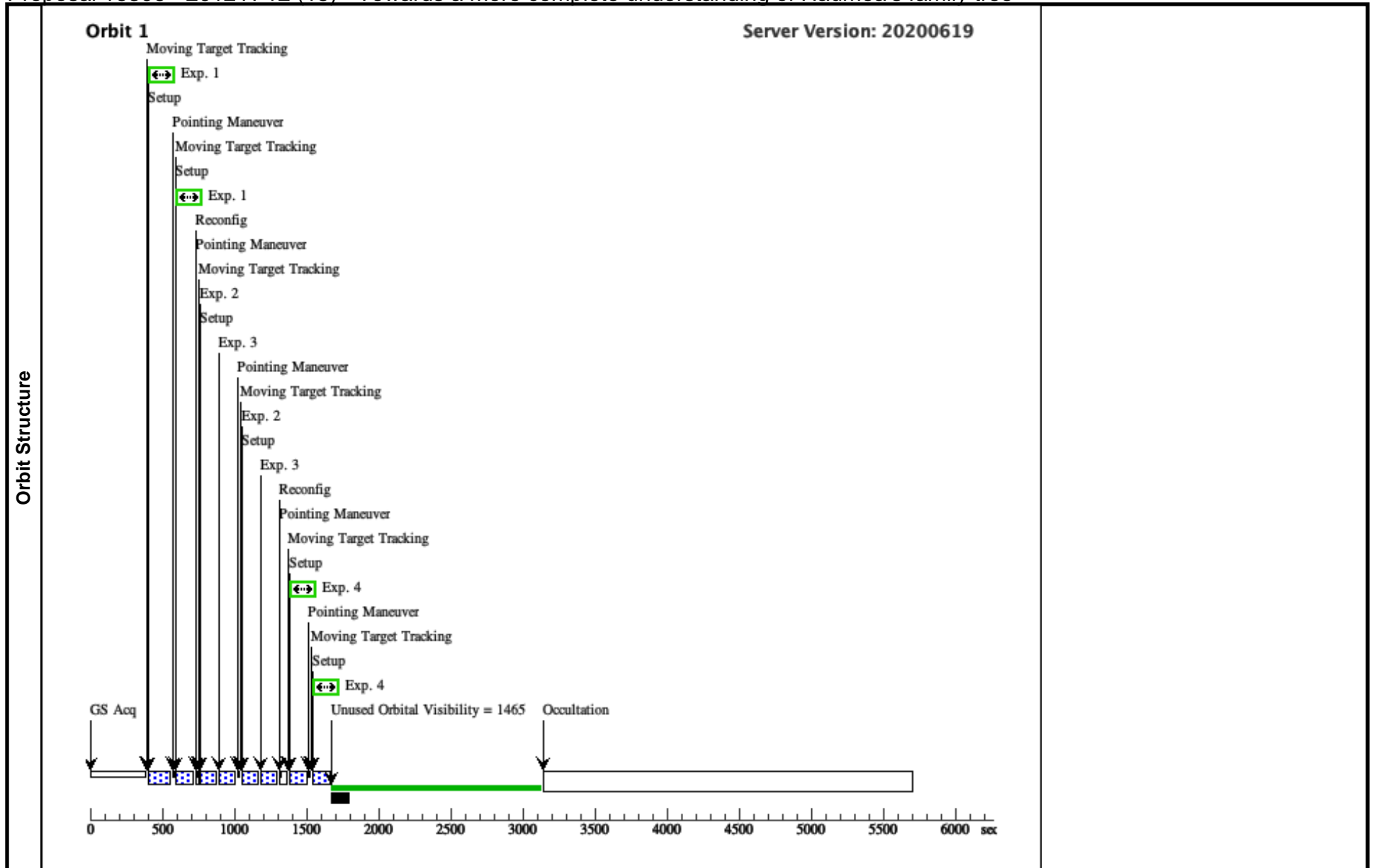
Proposal 16306 - 2012YF12 (15) - Towards a more complete understanding of Haumea's family tree

Mon Oct 05 14:00:41 GMT 2020

Visit	Proposal 16306, 2012YF12 (15), pi Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)						
	(F606W (15.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (F606W (15.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser						
Diagnosics							
Patterns	#	Primary Pattern		Secondary Pattern		Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(2-3)	
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (4)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(15)	2012YF12	TYPE=ASTEROID,A=43.6366008730 8384,E=0.1422947528178079,I=28.14 874755170184 ,O=153.6813805639686,W=12.467792 76285168,M=292.6428144143572,EQ UINOX=J2000,EPOCH=18-DEC- 2015:00:00:00,EpochTimeScale=TDB				EARTH
Comments: Description=ASTEROID Extended=NO							

Proposal 16306 - 2012YF12 (15) - Towards a more complete understanding of Haumea's family tree

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F606W	(15) 2012YF12	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=20		Sequence 1-4 Non-Int in 2012YF12 (15)	65 Secs (130 Secs)	
								Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in 2012YF12 (15) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F139M	(15) 2012YF12	WFC3/IR, MULTIACCUM, IRSUB256	F139M	NSAMP=13; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2012YF12 (15)	88.435659 Secs (176.871 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2012YF12 (15) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
3	F153M	(15) 2012YF12	WFC3/IR, MULTIACCUM, IRSUB256	F153M	NSAMP=15; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2012YF12 (15)	103.128633 Secs (206.257 Secs)		
							Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2012YF12 (15) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
4	F606W	(15) 2012YF12	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=20		Sequence 1-4 Non-Int in 2012YF12 (15)	65 Secs (130 Secs)		
							Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in 2012YF12 (15) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	



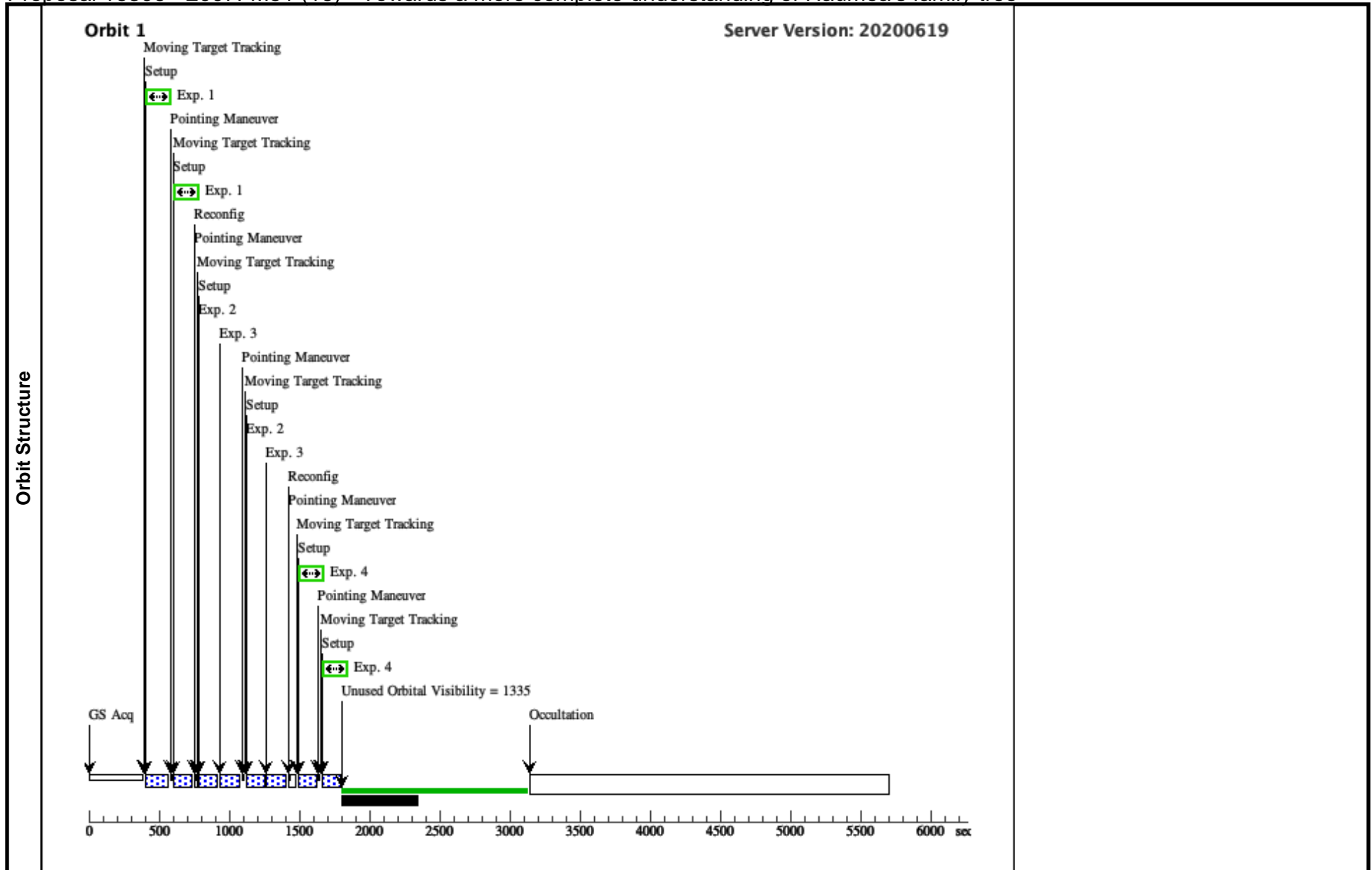
Proposal 16306 - 2007FM51 (16) - Towards a more complete understanding of Haumea's family tree

Mon Oct 05 14:00:41 GMT 2020

Visit	Proposal 16306, 2007FM51 (16), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
	(F606W (16.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (F606W (16.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
	Patterns	#	Primary Pattern	Secondary Pattern		Exposures
		(1)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(2-3)
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (4)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window
	(16)	2007FM51	TYPE=ASTEROID,A=45.4735721719 91117,E=0.1589394810356299,I=29.25 625176852216 ,O=106.7485686509956,W=341.94231 22130987,M=59.58925480465516,EQ UINOX=J2000,EPOCH=06-SEP- 2008:00:00:00,EpochTimeScale=TDB			
Comments: Description=ASTEROID 2007 FM51 Extended=NO						

Proposal 16306 - 2007FM51 (16) - Towards a more complete understanding of Haumea's family tree

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F606W	(16) 2007FM51	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=20		Sequence 1-4 Non-Int in 2007FM51 (16) Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in 2007FM51 (16) (2)	75 Secs (150 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F139M	(16) 2007FM51	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=5; SAMP-SEQ=SPAR S25		Sequence 1-4 Non-Int in 2007FM51 (16) Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2007FM51 (16) (1)	102.934351 Secs (205.869 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F153M	(16) 2007FM51	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=6; SAMP-SEQ=SPAR S25		Sequence 1-4 Non-Int in 2007FM51 (16) Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2007FM51 (16) (1)	127.934866 Secs (255.87 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F606W	(16) 2007FM51	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=20		Sequence 1-4 Non-Int in 2007FM51 (16) Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in 2007FM51 (16) (2)	75 Secs (150 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



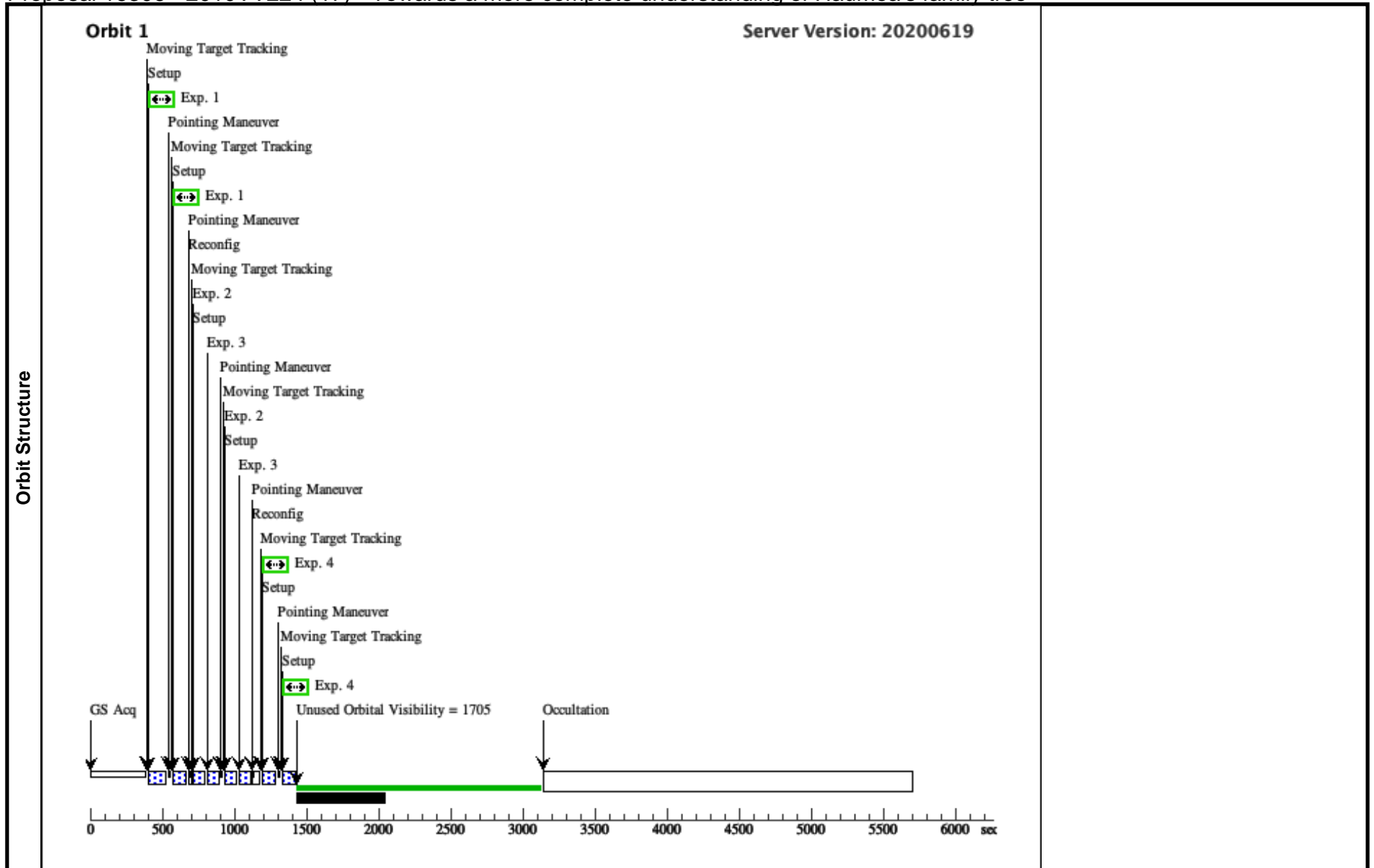
Proposal 16306 - 2010VV224 (17) - Towards a more complete understanding of Haumea's family tree

Mon Oct 05 14:00:41 GMT 2020

Visit	Proposal 16306, 2010VV224 (17), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)						
	(F606W (17.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (F606W (17.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser						
Diagnosics							
Patterns	#	Primary Pattern		Secondary Pattern		Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(2-3)	
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (4)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(17)	2010VV224	TYPE=ASTEROID,A=44.2197851526 5409,E=0.1601940069141774,I=25.10 10439076355 ,O=225.2315650085725,W=217.62726 61903577,M=335.5944673333993,EQ UINOX=J2000,EPOCH=29-NOV- 2014:00:00:00,EpochTimeScale=TDB				EARTH
Comments: Description=ASTEROID 2010 VV224 Extended=NO							

Proposal 16306 - 2010VV224 (17) - Towards a more complete understanding of Haumea's family tree

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F606W	(17) 2010VV224	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=20		Sequence 1-4 Non-Int in 2010VV224 (17) Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in 2010VV224 (17) (2)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F139M	(17) 2010VV224	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=6; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2010VV224 (17) Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2010VV224 (17) (1)	52.937106 Secs (105.874 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F153M	(17) 2010VV224	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=7; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2010VV224 (17) Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2010VV224 (17) (1)	62.938069 Secs (125.876 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F606W	(17) 2010VV224	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=20		Sequence 1-4 Non-Int in 2010VV224 (17) Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in 2010VV224 (17) (2)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



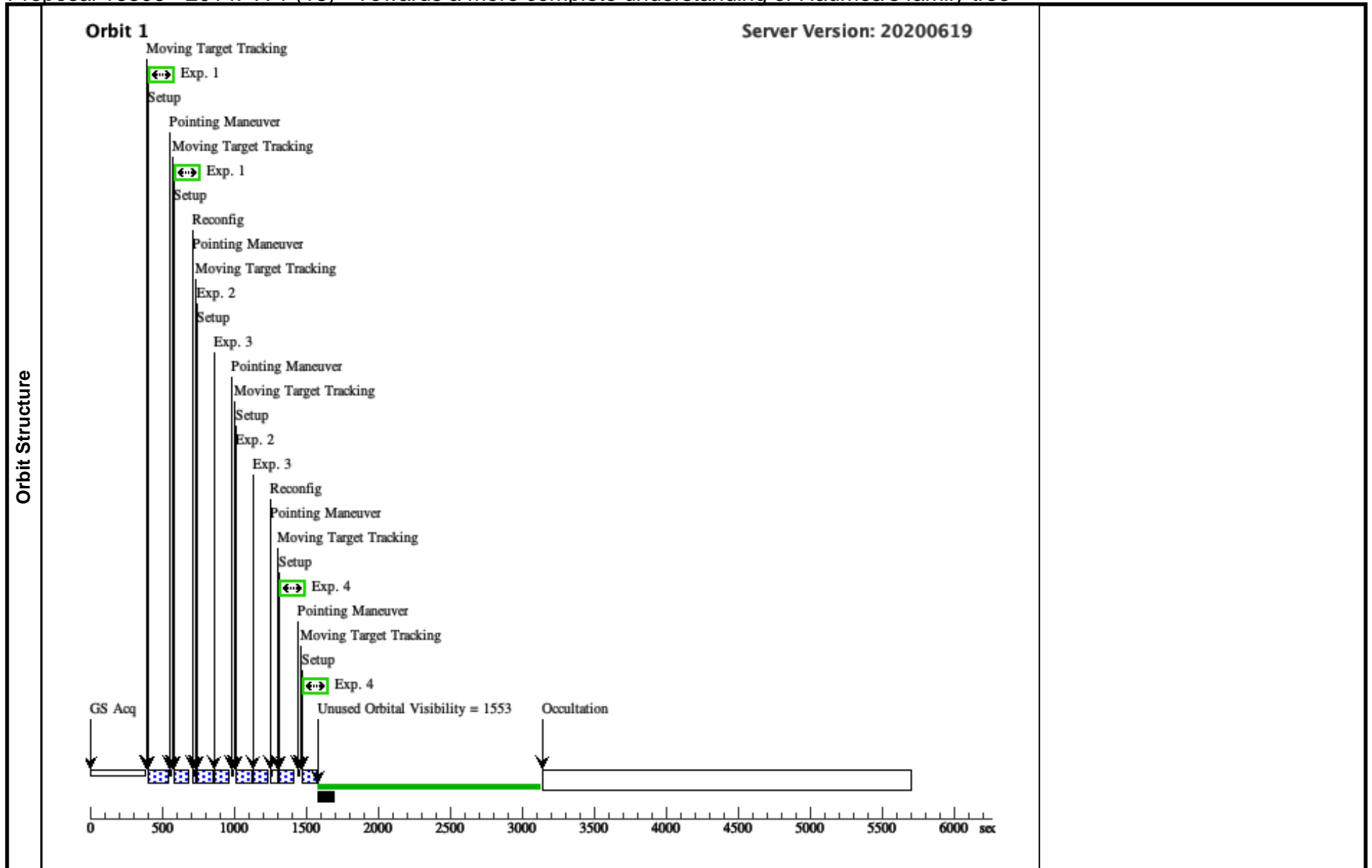
Proposal 16306 - 2014FT71 (18) - Towards a more complete understanding of Haumea's family tree

Mon Oct 05 14:00:41 GMT 2020

Visit	Proposal 16306, 2014FT71 (18), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)						
	(F606W (18.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (F606W (18.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser						
Diagnosics							
Patterns	#	Primary Pattern		Secondary Pattern		Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(2-3)	
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (4)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(18)	2014FT71	TYPE=ASTEROID,A=43.6526522645 791,E=0.138980238195266,I=27.8553 6435790312 .O=346.3402309232948,W=351.27568 08312996,M=230.5418610718016,EQ UINOX=J2000,EPOCH=26-NOV- 2014:00:00:00,EpochTimeScale=TDB				EARTH
Comments: Description=ASTEROID (523736) 2014 FT71 Extended=NO							

Proposal 16306 - 2014FT71 (18) - Towards a more complete understanding of Haumea's family tree

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F606W	(18) 2014FT71	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=19		Sequence 1-4 Non-Int in 2014FT71 (18) Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in 2014FT71 (18) (2)	55 Secs (110 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F139M	(18) 2014FT71	WFC3/IR, MULTIACCUM, IRSUB256	F139M	NSAMP=12; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2014FT71 (18) Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2014FT71 (18) (1)	81.089172 Secs (162.178 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F153M	(18) 2014FT71	WFC3/IR, MULTIACCUM, IRSUB256	F153M	NSAMP=13; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2014FT71 (18) Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2014FT71 (18) (1)	88.435659 Secs (176.871 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F606W	(18) 2014FT71	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=19		Sequence 1-4 Non-Int in 2014FT71 (18) Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in 2014FT71 (18) (2)	55 Secs (110 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



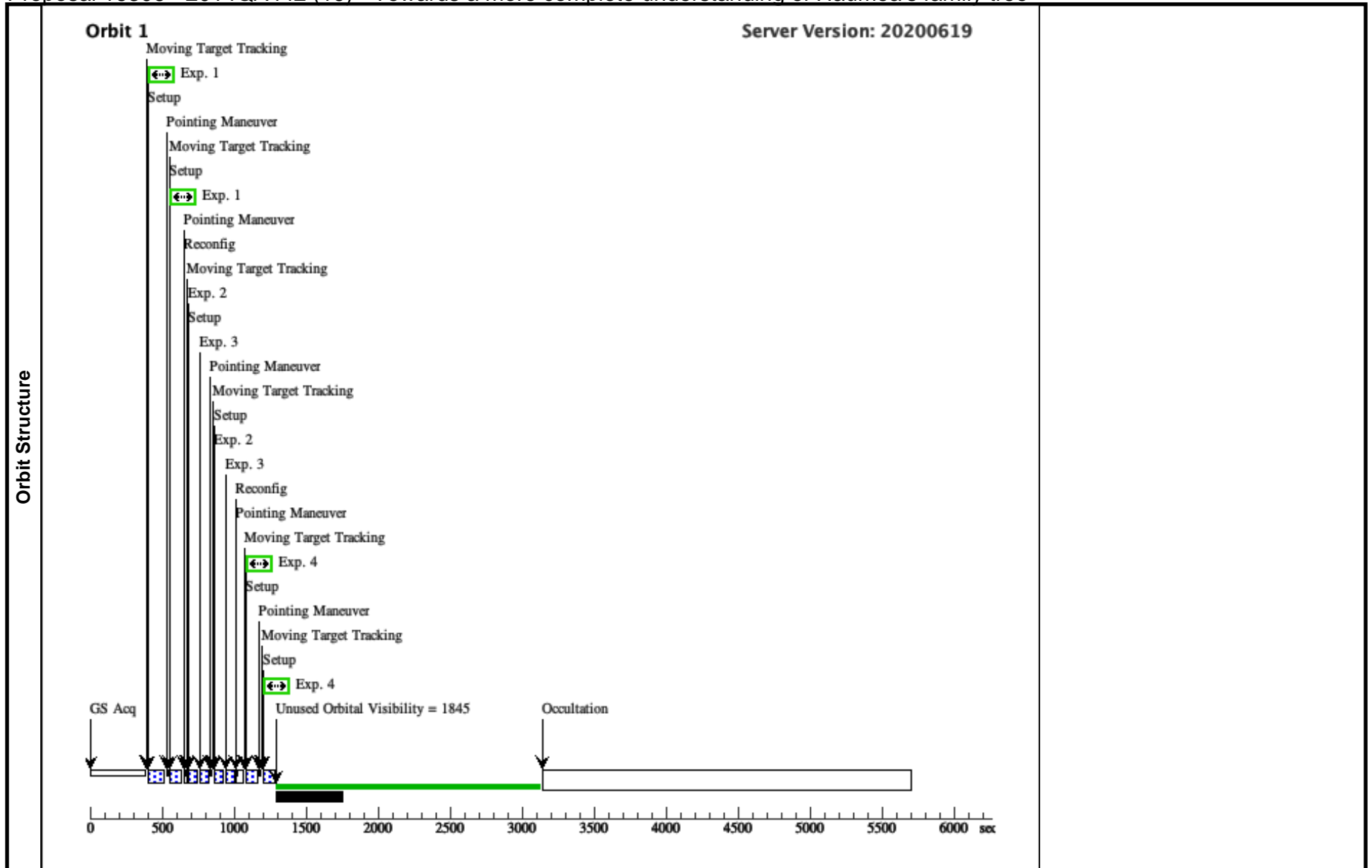
Proposal 16306 - 2014QA442 (19) - Towards a more complete understanding of Haumea's family tree

Mon Oct 05 14:00:41 GMT 2020

Visit	Proposal 16306, 2014QA442 (19), scheduled Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)						
	(F606W (19.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (F606W (19.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser						
Diagnosics							
Patterns	#	Primary Pattern		Secondary Pattern		Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(2-3)	
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (4)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(19)	2014QA442	TYPE=ASTEROID,A=43.0179972023 0351,E=0.1812416290248652,I=27.42 679108619512 ,O=109.5000640704643,W=282.48856 90442087,M=340.1355757945313,EQ UINOX=J2000,EPOCH=24-JAN- 2015:00:00:00,EpochTimeScale=TDB				EARTH
Comments: Description=ASTEROID (523736) 2014 QA442 Extended=NO							

Proposal 16306 - 2014QA442 (19) - Towards a more complete understanding of Haumea's family tree

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F606W	(19) 2014QA442	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=20		Sequence 1-4 Non-Int in 2014QA442 (19)	25 Secs (50 Secs)	
								Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in 2014QA442 (19) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F139M	(19) 2014QA442	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=4; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2014QA442 (19)	32.93518 Secs (65.87 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2014QA442 (19) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
3	F153M	(19) 2014QA442	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=5; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2014QA442 (19)	42.936143 Secs (85.872 Secs)		
							Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2014QA442 (19) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
4	F606W	(19) 2014QA442	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=20		Sequence 1-4 Non-Int in 2014QA442 (19)	25 Secs (50 Secs)		
							Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in 2014QA442 (19) (2)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	



Proposal 16306 - 2010RF64 (20) - Towards a more complete understanding of Haumea's family tree

Mon Oct 05 14:00:42 GMT 2020

Visit	Proposal 16306, 2010RF64 (20), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)						
	Diagnosics (F606W (20.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (F606W (20.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser						
Patterns	#	Primary Pattern		Secondary Pattern		Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(2-3)	
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (4)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(20)	2010RF64	TYPE=ASTEROID,A=42.9445176778 5141,E=0.1722673753313362,I=28.72 100329626618 ,O=131.1317589881647,W=210.00243 05472809,M=19.39885866436757,EQ UINOX=J2000,EPOCH=10-AUG- 2014:00:00:00,EpochTimeScale=TDB				EARTH
Comments: Description=ASTEROID 2010 RF64 Extended=NO							

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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F606W	(20) 2010RF64	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=20		Sequence 1-4 Non-Int in 2010RF64 (20) Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in 2010RF64 (20) (2)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F139M	(20) 2010RF64	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=6; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2010RF64 (20) Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2010RF64 (20) (1)	52.937106 Secs (105.874 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F153M	(20) 2010RF64	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=7; SAMP-SEQ=SPAR S10		Sequence 1-4 Non-Int in 2010RF64 (20) Pattern 1, Exps 2-3 in Sequence 1-4 Non-Int in 2010RF64 (20) (1)	62.938069 Secs (125.876 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F606W	(20) 2010RF64	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F606W	FLASH=20		Sequence 1-4 Non-Int in 2010RF64 (20) Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in 2010RF64 (20) (2)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]

