



14756 - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Cycle: 24, Proposal Category: GO/DD

(Availability Mode: AVAILABLE)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Amy Simon (PI) (Contact)	NASA Goddard Space Flight Center	amy.simon@nasa.gov
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Dr. Glenn S. Orton (CoI)	Jet Propulsion Laboratory	glenn.s.orton@jpl.nasa.gov

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	(3) URANUS-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:04.0	yes
02	(3) URANUS-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:06.0	yes
03	(3) URANUS-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:08.0	yes
04	(3) URANUS-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:10.0	yes
05	(3) URANUS-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:12.0	yes
06	(3) URANUS-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:14.0	yes
07	(3) URANUS-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:17.0	yes
08	(3) URANUS-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:20.0	yes
09	(1) JUPITER-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:21.0	yes
10	(1) JUPITER-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:22.0	yes
11	(1) JUPITER-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:23.0	yes
12	(1) JUPITER-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:24.0	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>
13	(1) JUPITER-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:25.0	yes
14	(1) JUPITER-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:26.0	yes
16	(1) JUPITER-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:28.0	yes
17	(1) JUPITER-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:29.0	yes
18	(1) JUPITER-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:30.0	yes
19	(1) JUPITER-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:31.0	yes
20	(1) JUPITER-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:32.0	yes
21	(1) JUPITER-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:33.0	yes
22	(4) NEPTUNE-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:34.0	yes
23	(4) NEPTUNE-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:36.0	yes
24	(4) NEPTUNE-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:38.0	yes
25	(4) NEPTUNE-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:40.0	yes
26	(4) NEPTUNE-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:43.0	yes
27	(4) NEPTUNE-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:45.0	yes
28	(4) NEPTUNE-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:46.0	yes
29	(4) NEPTUNE-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:48.0	yes
30	(4) NEPTUNE-MAPS	WFC3/UVIS	1	11-Aug-2017 14:01:50.0	yes

29 Total Orbits Used

ABSTRACT

Long time base observations of the outer planets are critical in understanding the atmospheric dynamics and evolution of the gas giants. We propose yearly monitoring of each giant planet for the remainder of Hubble's lifetime to provide a lasting legacy of increasingly valuable data for time-domain studies. The Hubble Space Telescope is a unique asset to planetary science, allowing high spatial resolution data with absolute photometric knowledge. For the outer planets, gas/ice giant planets Jupiter, Saturn, Uranus and Neptune, many phenomena happen on timescales of years to decades, and the data we propose are beyond the scope of a typical GO program. Hubble is the only platform that can provide high spatial resolution global studies of cloud coloration, activity, and motion on a consistent time basis to help constrain the underlying mechanics. Note that Saturn is not

Proposal 14756 (STScI Edit Number: 19, Created: Friday, August 11, 2017 1:01:52 PM EST) - Overview
requested until 2018, when orbit allocation would increase from 29 to 41; here we show the orbits for Cycle 24.

OBSERVING DESCRIPTION

Global mapping for each of the four outer planets. Orbits spaced to allow complete longitude coverage for two rotations. Jupiter and Saturn orbits (when applicable) should be contiguous, and small incursions into the SAA may be ok. Uranus and Neptune orbits are spaced to give complete longitude coverage. CC: the PI and Co-I Wong on all correspondence

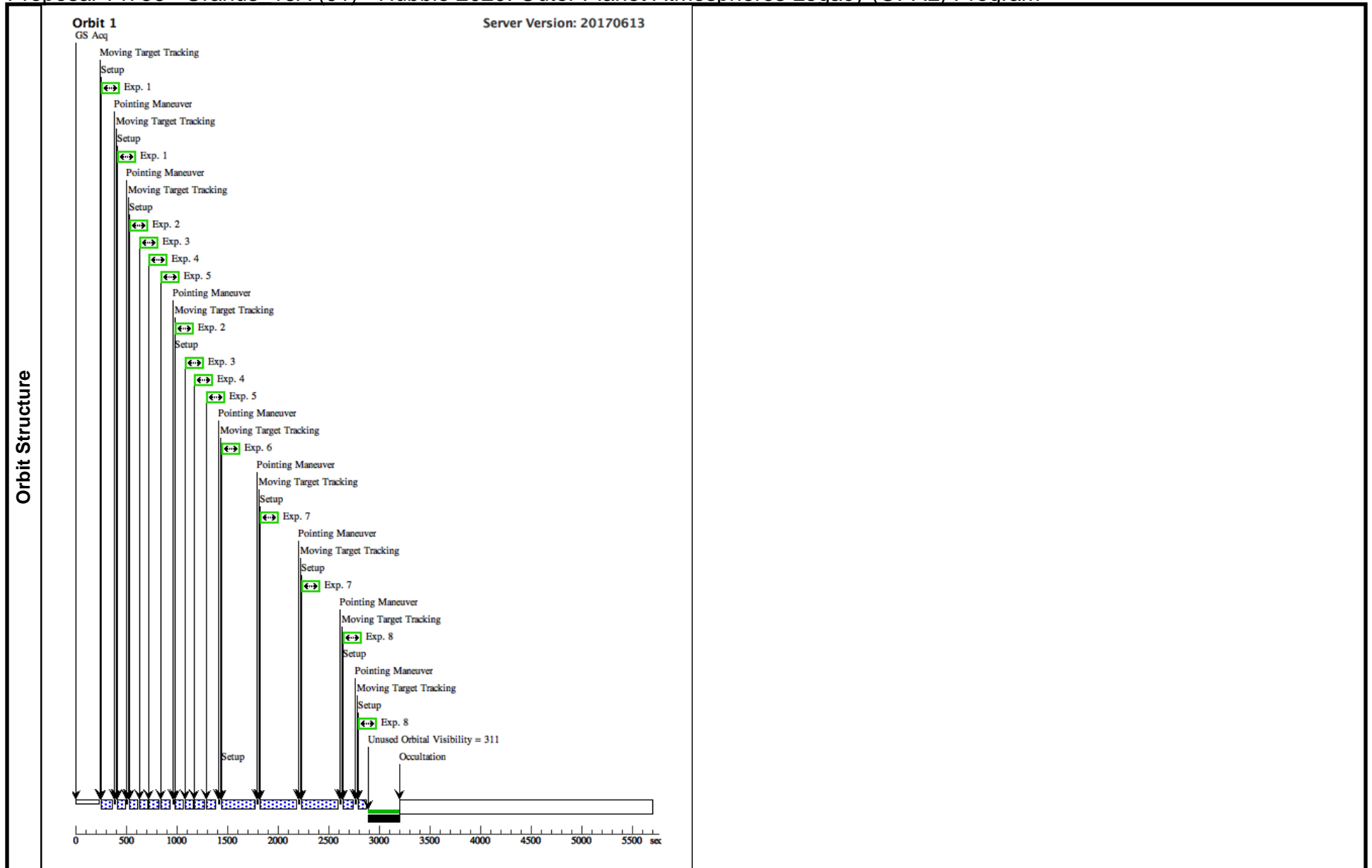
Proposal 14756 - Uranus 16A (01) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:52 GMT 2017

Visit	<p>Proposal 14756, Uranus_16A (01), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 10-SEP-2016:00:00:00 AND 20-NOV-2016:00:00:00</p> <p><i>Comments: Opposition (2016-OCT-15) +/- 35 days preferred. Filters as per Cycle 23 for consistency (F657 instead of F658, F763 instead of FQ924)</i></p> <p><i>8 orbits, with 2-orbit gaps between all visits (but prefer a 1-orbit gap between visits D/E, E/F, or F/G). Some shifting is OK, but absolutely need to keep all orbits such that visit H follows visit A with a gap of 19-21 orbits. Impingement into SAA is OK if the above timing gaps cannot prevent it.</i></p>																			
	<p>(F845M (01.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F467M (01.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F547M (01.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F657N (01.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F763M (01.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ619N_quadA (01.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ619N_quadA (01.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(FQ727N_quadD (01.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727N_quadD (01.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(F845M (01.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>																			
Diagnosics																				
Patterns	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Pattern</th> <th>Secondary Pattern</th> <th>Exposures</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td> Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= </td> <td> Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false </td> <td>(1), (2-5), (7), (8)</td> </tr> </tbody> </table>	#	Primary Pattern	Secondary Pattern	Exposures	(3)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(1), (2-5), (7), (8)											
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	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center													
(3)	URANUS-MAPS	STD=URANUS				EARTH														

Proposal 14756 - Uranus 16A (01) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARIO SINGLE	Sequence 1-8 Non-Int in Uranus_16A (01)	35 Secs (70 Secs)	
								Pattern 3, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_16A (01) (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F467M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16A (01)	14 Secs (28 Secs)	
								Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16A (01) (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F547M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Uranus_16A (01)	6 Secs (12 Secs)	
								Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16A (01) (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F657N	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F657N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16A (01)	40 Secs (80 Secs)	
								Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16A (01) (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
5	F763M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F763M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16A (01)	30 Secs (60 Secs)		
							Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16A (01) (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
6	FQ619N_quadA	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,-18.179	Sequence 1-8 Non-Int in Uranus_16A (01)	144 Secs (144 Secs)		
								[==>]	[1]	
7	FQ727N_quadD	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245,+16.537	Sequence 1-8 Non-Int in Uranus_16A (01)	200 Secs (400 Secs)		
							Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_16A (01) (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
8	F845M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16A (01)	35 Secs (70 Secs)		
							Pattern 3, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_16A (01) (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	



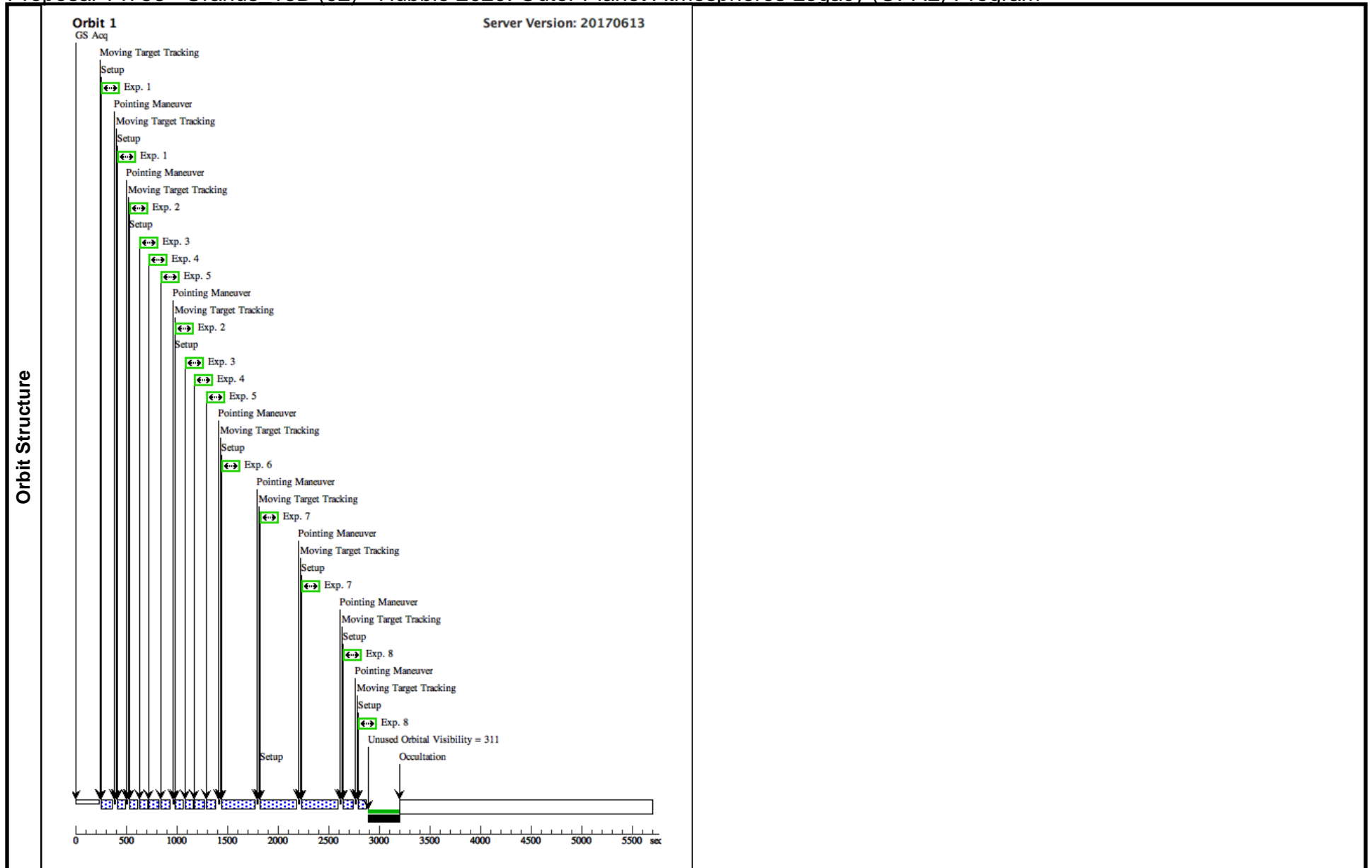
Proposal 14756 - Uranus 16B (02) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:53 GMT 2017

Visit	Proposal 14756, Uranus_16B (02), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 01 BY 1.9 Orbits TO 3.1 Orbits <i>Comments: Opposition +/- 35 days preferred</i>																			
	Diagnostics	(F845M (02.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (02.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (02.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F657N (02.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (02.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (02.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (02.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (FQ727N_quadD (02.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (02.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (F845M (02.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser																		
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	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center													
(3)	URANUS-MAPS	STD=URANUS				EARTH														

Proposal 14756 - Uranus 16B (02) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARIO SINGLE	Sequence 1-8 Non-Int in Uranus_16B (02) Pattern 3, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_16B (02) (3)	35 Secs (70 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F467M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16B (02) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16B (02) (3)	14 Secs (28 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F547M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Uranus_16B (02) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16B (02) (3)	6 Secs (12 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F657N	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F657N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16B (02) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16B (02) (3)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	F763M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F763M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16B (02) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16B (02) (3)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	6	FQ619N_quadA	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,-18.179	Sequence 1-8 Non-Int in Uranus_16B (02)	144 Secs (144 Secs) [==>]	[1]
	7	FQ727N_quadD	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245,+16.537	Sequence 1-8 Non-Int in Uranus_16B (02) Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_16B (02) (3)	200 Secs (400 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	F845M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16B (02) Pattern 3, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_16B (02) (3)	35 Secs (70 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



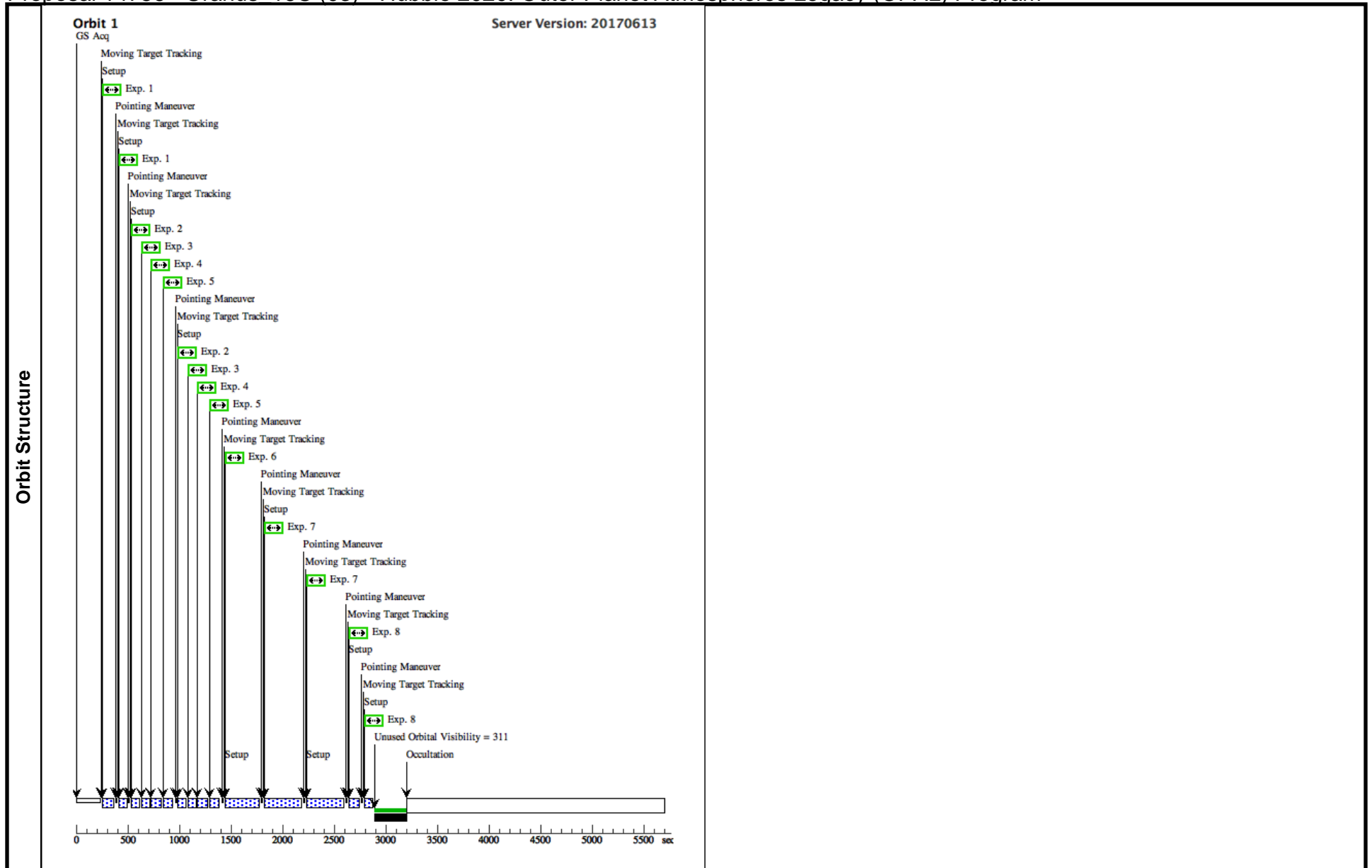
Proposal 14756 - Uranus 16C (03) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:53 GMT 2017

Visit	<p>Proposal 14756, Uranus_16C (03), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: AFTER 02 BY 1.9 Orbits TO 3.1 Orbits</p> <p><i>Comments: Opposition +/- 35 days preferred</i></p>						
	<p>(F845M (03.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F467M (03.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F547M (03.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F657N (03.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F763M (03.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ619N_quadA (03.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ619N_quadA (03.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(FQ727N_quadD (03.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727N_quadD (03.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(F845M (03.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>						
Diagnosics							
Patterns	#	Primary Pattern		Secondary Pattern		Exposures	
	(3)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (2-5), (7), (8)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(3)	URANUS-MAPS	STD=URANUS				EARTH
<p><i>Comments: Extended=YES</i></p>							

Proposal 14756 - Uranus 16C (03) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARI O SINGLE	Sequence 1-8 Non-Int in Uranus_16C (03) Pattern 3, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_16C (03) (3)	35 Secs (70 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F467M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16C (03) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16C (03) (3)	14 Secs (28 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F547M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Uranus_16C (03) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16C (03) (3)	6 Secs (12 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F657N	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F657N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16C (03) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16C (03) (3)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	F763M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F763M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16C (03) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16C (03) (3)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	6	FQ619N_quadA	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,-18.179	Sequence 1-8 Non-Int in Uranus_16C (03)	144 Secs (144 Secs) [==>]	[1]
	7	FQ727N_quadD	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245,+16.537	Sequence 1-8 Non-Int in Uranus_16C (03) Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_16C (03) (3)	200 Secs (400 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	F845M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16C (03) Pattern 3, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_16C (03) (3)	35 Secs (70 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



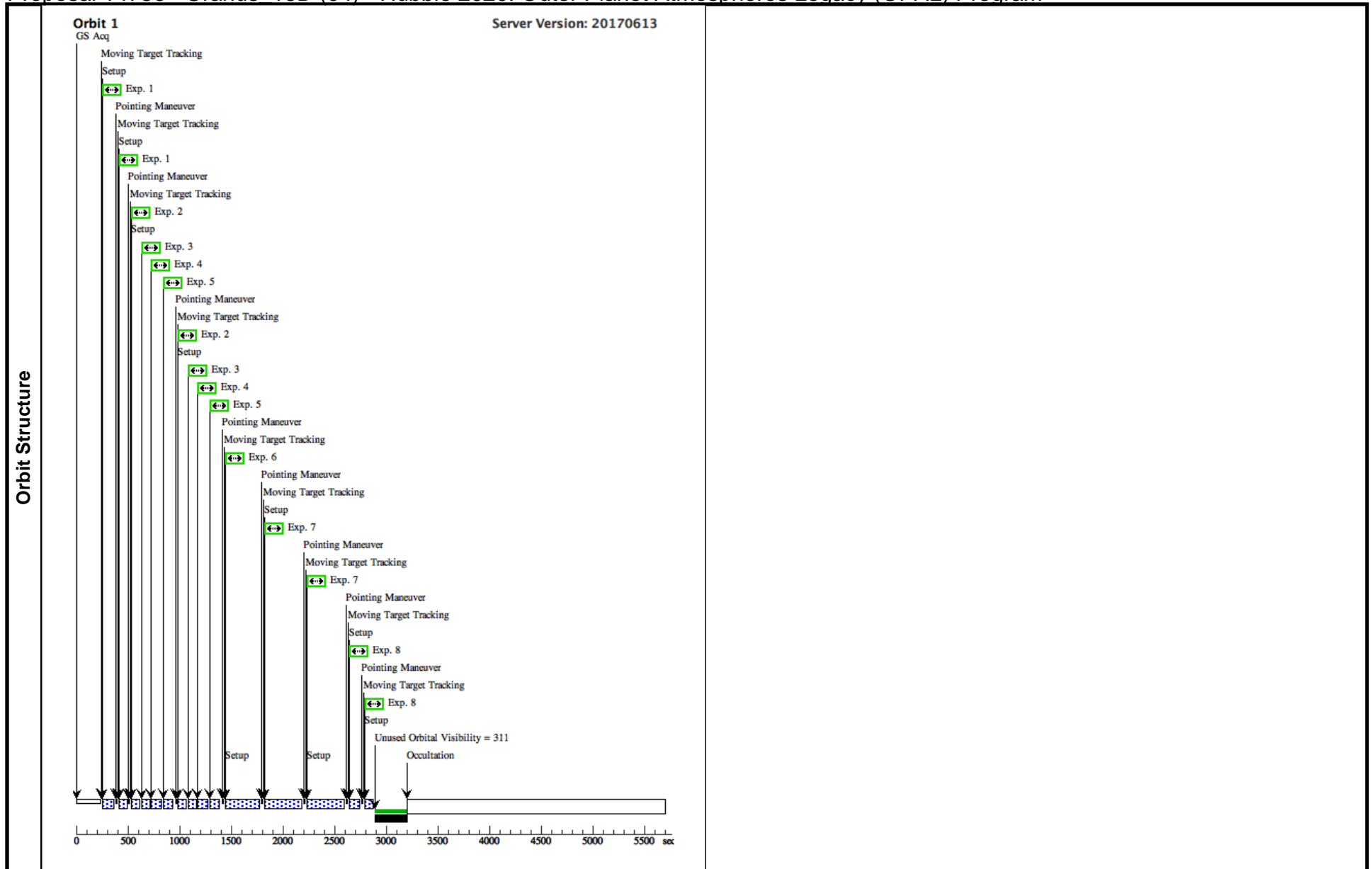
Proposal 14756 - Uranus 16D (04) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:53 GMT 2017

Visit	Proposal 14756, Uranus_16D (04), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 03 BY 1.9 Orbits TO 3.1 Orbits <i>Comments: Opposition +/- 35 days preferred</i>						
	Diagnostics	(F845M (04.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (04.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (04.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F657N (04.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (04.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (04.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (04.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (FQ727N_quadD (04.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (04.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (F845M (04.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Patterns		#	Primary Pattern	Secondary Pattern	Exposures		
	(3)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1), (2-5), (7), (8)			
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(3)	URANUS-MAPS	STD=URANUS				EARTH
<i>Comments: Extended=YES</i>							

Proposal 14756 - Uranus 16D (04) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARIO SINGLE	Sequence 1-8 Non-Int in Uranus_16D (04)	35 Secs (70 Secs) [==>(Pattern 1)]	[1]
								Pattern 3, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_16D (04) (3)	[==>(Pattern 2)]	
	2	F467M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16D (04)	14 Secs (28 Secs) [==>(Pattern 1)]	[1]
								Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16D (04) (3)	[==>(Pattern 2)]	
	3	F547M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Uranus_16D (04)	6 Secs (12 Secs) [==>(Pattern 1)]	[1]
								Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16D (04) (3)	[==>(Pattern 2)]	
	4	F657N	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F657N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16D (04)	40 Secs (80 Secs) [==>(Pattern 1)]	[1]
								Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16D (04) (3)	[==>(Pattern 2)]	
5	F763M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F763M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16D (04)	30 Secs (60 Secs) [==>(Pattern 1)]	[1]	
							Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16D (04) (3)	[==>(Pattern 2)]		
6	FQ619N_quadA	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,-18.179	Sequence 1-8 Non-Int in Uranus_16D (04)	144 Secs (144 Secs) [==>]	[1]	
7	FQ727N_quadD	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245,+16.537	Sequence 1-8 Non-Int in Uranus_16D (04)	200 Secs (400 Secs) [==>(Pattern 1)]	[1]	
							Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_16D (04) (3)	[==>(Pattern 2)]		
8	F845M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16D (04)	35 Secs (70 Secs) [==>(Pattern 1)]	[1]	
							Pattern 3, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_16D (04) (3)	[==>(Pattern 2)]		



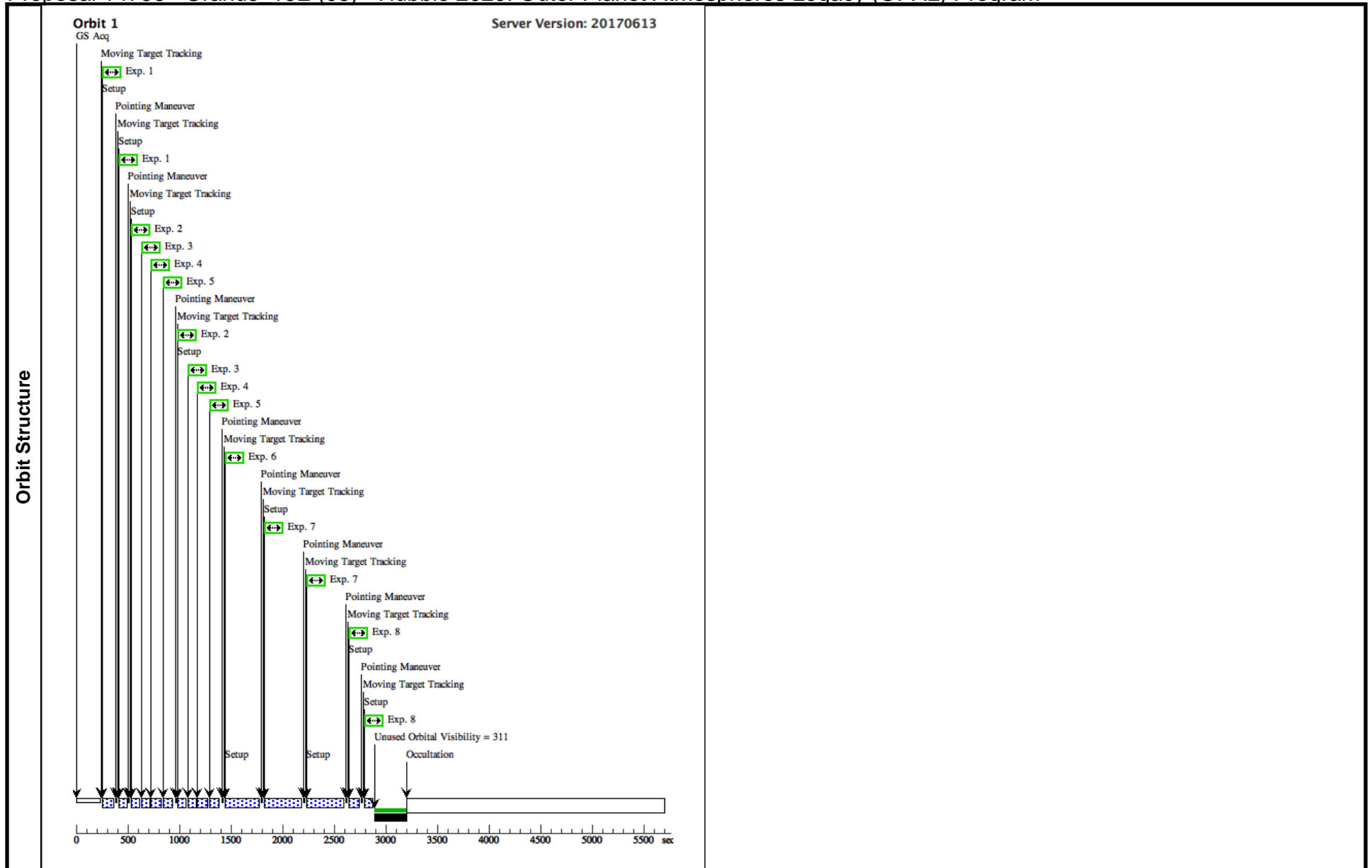
Proposal 14756 - Uranus 16E (05) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:53 GMT 2017

Visit	Proposal 14756, Uranus_16E (05), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 04 BY 1.9 Orbits TO 3.1 Orbits <i>Comments: Opposition +/- 35 days preferred</i>						
	Diagnostics	(F845M (05.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (05.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (05.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F657N (05.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (05.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (05.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (05.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (FQ727N_quadD (05.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (05.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (F845M (05.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Patterns		#	Primary Pattern	Secondary Pattern	Exposures		
	(3)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1), (2-5), (7), (8)			
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(3)	URANUS-MAPS	STD=URANUS				EARTH
<i>Comments: Extended=YES</i>							

Proposal 14756 - Uranus 16E (05) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARIO SINGLE	Sequence 1-8 Non-Int in Uranus_16E (05)	35 Secs (70 Secs) [==>(Pattern 1)]	[1]
								Pattern 3, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_16E (05) (3)	[==>(Pattern 2)]	
	2	F467M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16E (05)	14 Secs (28 Secs) [==>(Pattern 1)]	[1]
								Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16E (05) (3)	[==>(Pattern 2)]	
	3	F547M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Uranus_16E (05)	6 Secs (12 Secs) [==>(Pattern 1)]	[1]
								Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16E (05) (3)	[==>(Pattern 2)]	
	4	F657N	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F657N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16E (05)	40 Secs (80 Secs) [==>(Pattern 1)]	[1]
								Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16E (05) (3)	[==>(Pattern 2)]	
	5	F763M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F763M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16E (05)	30 Secs (60 Secs) [==>(Pattern 1)]	[1]
							Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16E (05) (3)	[==>(Pattern 2)]		
6	FQ619N_quadA	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,-18.179	Sequence 1-8 Non-Int in Uranus_16E (05)	144 Secs (144 Secs) [==>]	[1]	
7	FQ727N_quadD	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245,+16.537	Sequence 1-8 Non-Int in Uranus_16E (05)	200 Secs (400 Secs) [==>(Pattern 1)]	[1]	
							Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_16E (05) (3)	[==>(Pattern 2)]		
8	F845M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16E (05)	35 Secs (70 Secs) [==>(Pattern 1)]	[1]	
							Pattern 3, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_16E (05) (3)	[==>(Pattern 2)]		



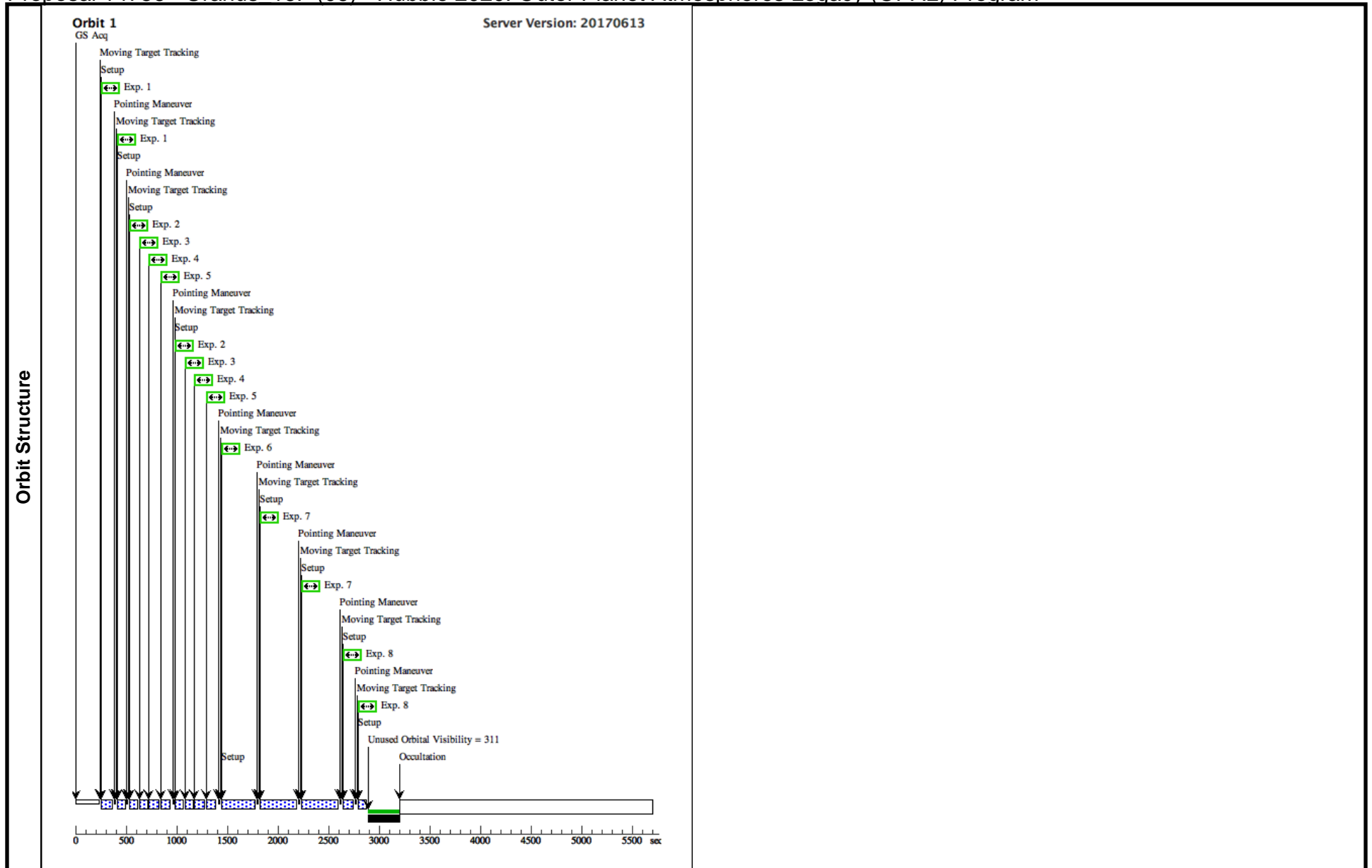
Proposal 14756 - Uranus 16F (06) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:53 GMT 2017

Visit	<p>Proposal 14756, Uranus_16F (06), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: AFTER 05 BY 1.9 Orbits TO 3.1 Orbits</p> <p><i>Comments: Opposition +/- 35 days preferred</i></p>																
	<p>(F845M (06.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F467M (06.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F547M (06.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F657N (06.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F763M (06.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ619N_quadA (06.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ619N_quadA (06.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(FQ727N_quadD (06.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727N_quadD (06.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(F845M (06.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>																
Diagnosics	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Pattern</th> <th>Secondary Pattern</th> <th>Exposures</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td> Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= </td> <td> Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false </td> <td>(1), (2-5), (7), (8)</td> </tr> </tbody> </table>			#	Primary Pattern	Secondary Pattern	Exposures	(3)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(1), (2-5), (7), (8)						
	#	Primary Pattern	Secondary Pattern	Exposures													
(3)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(1), (2-5), (7), (8)														
<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>URANUS-MAPS</td> <td>STD=URANUS</td> <td></td> <td></td> <td></td> <td>EARTH</td> </tr> </tbody> </table> <p><i>Comments: Extended=YES</i></p>			#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(3)	URANUS-MAPS	STD=URANUS				EARTH	
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center											
(3)	URANUS-MAPS	STD=URANUS				EARTH											
Patterns	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>URANUS-MAPS</td> <td>STD=URANUS</td> <td></td> <td></td> <td></td> <td>EARTH</td> </tr> </tbody> </table> <p><i>Comments: Extended=YES</i></p>			#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(3)	URANUS-MAPS	STD=URANUS				EARTH
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center										
(3)	URANUS-MAPS	STD=URANUS				EARTH											
Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>URANUS-MAPS</td> <td>STD=URANUS</td> <td></td> <td></td> <td></td> <td>EARTH</td> </tr> </tbody> </table> <p><i>Comments: Extended=YES</i></p>			#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(3)	URANUS-MAPS	STD=URANUS				EARTH
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center										
(3)	URANUS-MAPS	STD=URANUS				EARTH											
<p><i>Comments: Extended=YES</i></p>																	

Proposal 14756 - Uranus 16F (06) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARIO SINGLE	Sequence 1-8 Non-Int in Uranus_16F (06)	35 Secs (70 Secs) [==>(Pattern 1)]	[1]
								Pattern 3, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_16F (06) (3)	[==>(Pattern 2)]	
	2	F467M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16F (06)	14 Secs (28 Secs) [==>(Pattern 1)]	[1]
								Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16F (06) (3)	[==>(Pattern 2)]	
	3	F547M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Uranus_16F (06)	6 Secs (12 Secs) [==>(Pattern 1)]	[1]
								Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16F (06) (3)	[==>(Pattern 2)]	
	4	F657N	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F657N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16F (06)	40 Secs (80 Secs) [==>(Pattern 1)]	[1]
								Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16F (06) (3)	[==>(Pattern 2)]	
	5	F763M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F763M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16F (06)	30 Secs (60 Secs) [==>(Pattern 1)]	[1]
							Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16F (06) (3)	[==>(Pattern 2)]		
6	FQ619N_quadA	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,-18.179	Sequence 1-8 Non-Int in Uranus_16F (06)	144 Secs (144 Secs) [==>]	[1]	
7	FQ727N_quadD	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245,+16.537	Sequence 1-8 Non-Int in Uranus_16F (06)	200 Secs (400 Secs) [==>(Pattern 1)]	[1]	
							Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_16F (06) (3)	[==>(Pattern 2)]		
8	F845M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16F (06)	35 Secs (70 Secs) [==>(Pattern 1)]	[1]	
							Pattern 3, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_16F (06) (3)	[==>(Pattern 2)]		



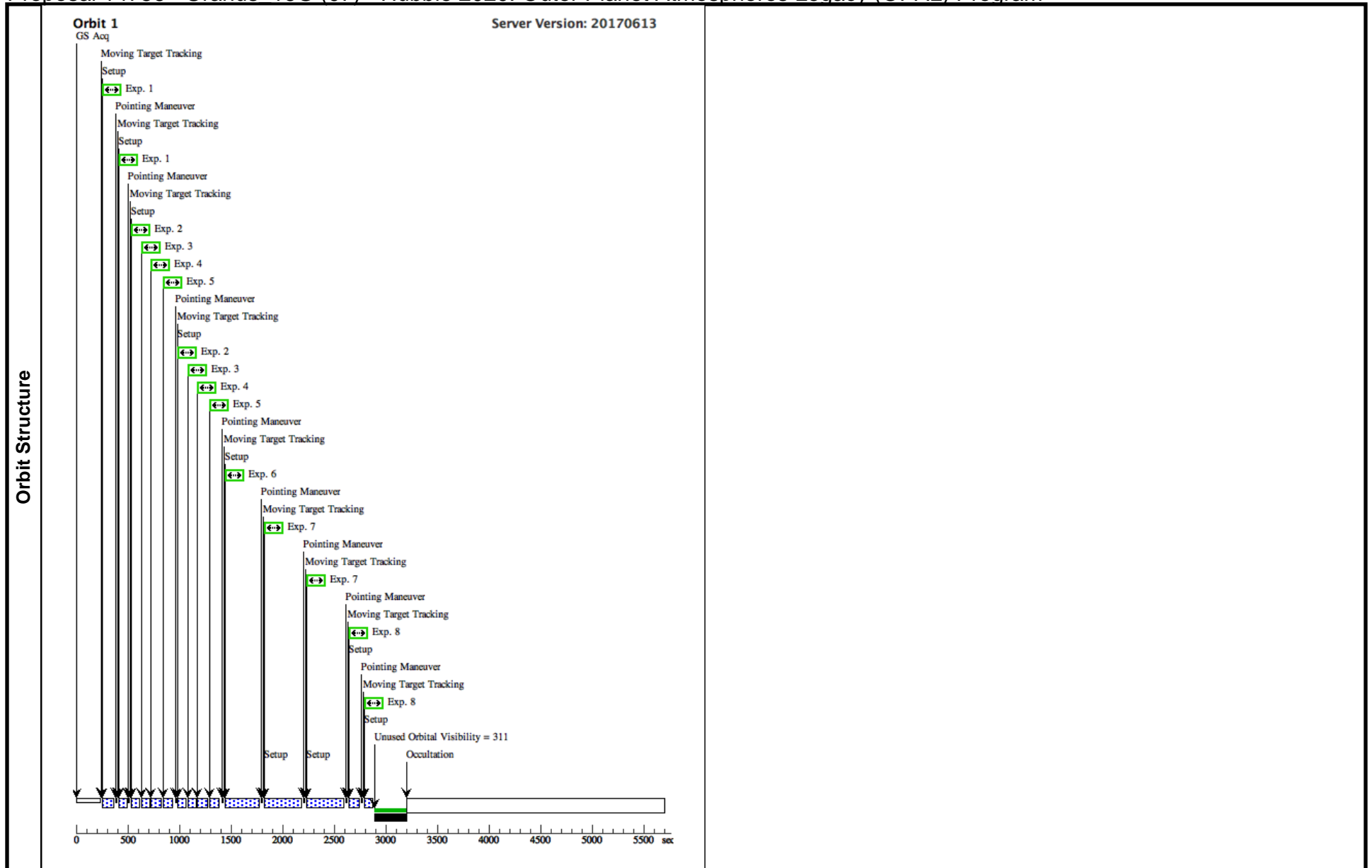
Proposal 14756 - Uranus 16G (07) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:53 GMT 2017

Visit	Proposal 14756, Uranus_16G (07), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 06 BY 1.9 Orbits TO 3.1 Orbits; SEQ 07,08 WITHIN 3 Orbits <i>Comments: Opposition +/- 35 days preferred</i>						
	Diagnostics	(F845M (07.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (07.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (07.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F657N (07.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (07.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (07.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (07.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (FQ727N_quadD (07.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (07.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (F845M (07.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Patterns		#	Primary Pattern	Secondary Pattern	Exposures		
	(3)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(1), (2-5), (7), (8)			
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(3)	URANUS-MAPS	STD=URANUS				EARTH
<i>Comments: Extended=YES</i>							

Proposal 14756 - Uranus 16G (07) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARI O SINGLE	Sequence 1-8 Non-Int in Uranus_16G (07) Pattern 3, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_16G (07) (3)	35 Secs (70 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F467M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16G (07) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16G (07) (3)	14 Secs (28 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F547M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Uranus_16G (07) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16G (07) (3)	6 Secs (12 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F657N	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F657N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16G (07) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16G (07) (3)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	F763M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F763M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16G (07) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16G (07) (3)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	6	FQ619N_quadA	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,-18.179	Sequence 1-8 Non-Int in Uranus_16G (07)	144 Secs (144 Secs) [==>]	[1]
	7	FQ727N_quadD	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245,+16.537	Sequence 1-8 Non-Int in Uranus_16G (07) Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_16G (07) (3)	200 Secs (400 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	F845M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16G (07) Pattern 3, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_16G (07) (3)	35 Secs (70 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



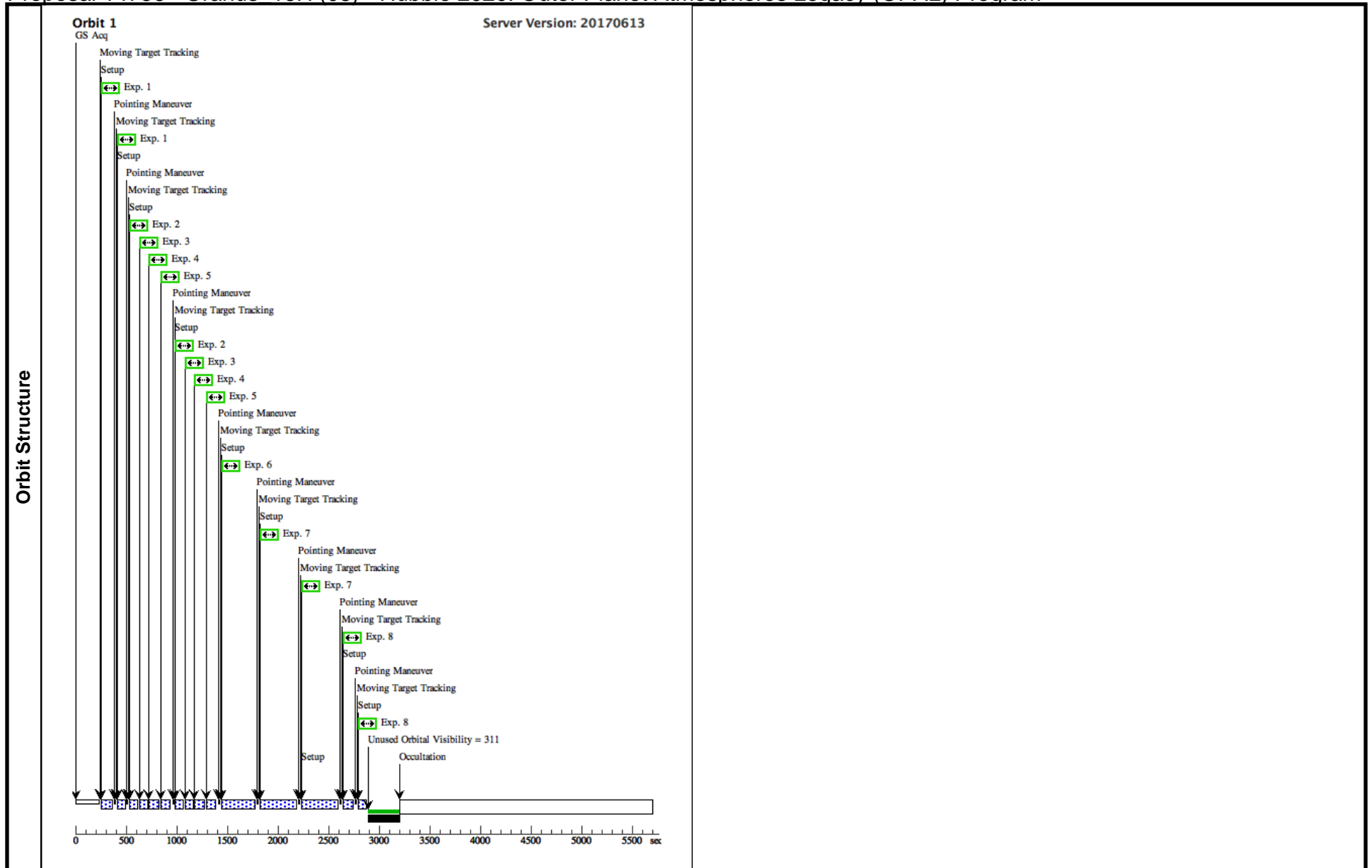
Proposal 14756 - Uranus 16H (08) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:53 GMT 2017

Visit	<p>Proposal 14756, Uranus_16H (08), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: AFTER 01 BY 18.9 Orbits TO 21.1 Orbits</p> <p><i>Comments: Opposition +/- 35 days preferred</i></p>																
	<p>(F845M (08.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F467M (08.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F547M (08.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F657N (08.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F763M (08.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ619N_quadA (08.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ619N_quadA (08.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(FQ727N_quadD (08.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727N_quadD (08.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(F845M (08.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>																
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#	Name	Level 1	Level 2	Level 3	Window	Ephem Center											
(3)	URANUS-MAPS	STD=URANUS				EARTH											

Proposal 14756 - Uranus 16H (08) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARIO SINGLE	Sequence 1-8 Non-Int in Uranus_16H (08)	35 Secs (70 Secs) [==>(Pattern 1)]	[1]
								Pattern 3, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_16H (08) (3)	[==>(Pattern 2)]	
	2	F467M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16H (08)	14 Secs (28 Secs) [==>(Pattern 1)]	[1]
								Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16H (08) (3)	[==>(Pattern 2)]	
	3	F547M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Uranus_16H (08)	6 Secs (12 Secs) [==>(Pattern 1)]	[1]
								Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16H (08) (3)	[==>(Pattern 2)]	
	4	F657N	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F657N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16H (08)	40 Secs (80 Secs) [==>(Pattern 1)]	[1]
								Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16H (08) (3)	[==>(Pattern 2)]	
5	F763M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F763M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16H (08)	30 Secs (60 Secs) [==>(Pattern 1)]	[1]	
							Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_16H (08) (3)	[==>(Pattern 2)]		
6	FQ619N_quadA	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,-18.179	Sequence 1-8 Non-Int in Uranus_16H (08)	144 Secs (144 Secs) [==>]	[1]	
7	FQ727N_quadD	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245,+16.537	Sequence 1-8 Non-Int in Uranus_16H (08)	200 Secs (400 Secs) [==>(Pattern 1)]	[1]	
							Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_16H (08) (3)	[==>(Pattern 2)]		
8	F845M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_16H (08)	35 Secs (70 Secs) [==>(Pattern 1)]	[1]	
							Pattern 3, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_16H (08) (3)	[==>(Pattern 2)]		



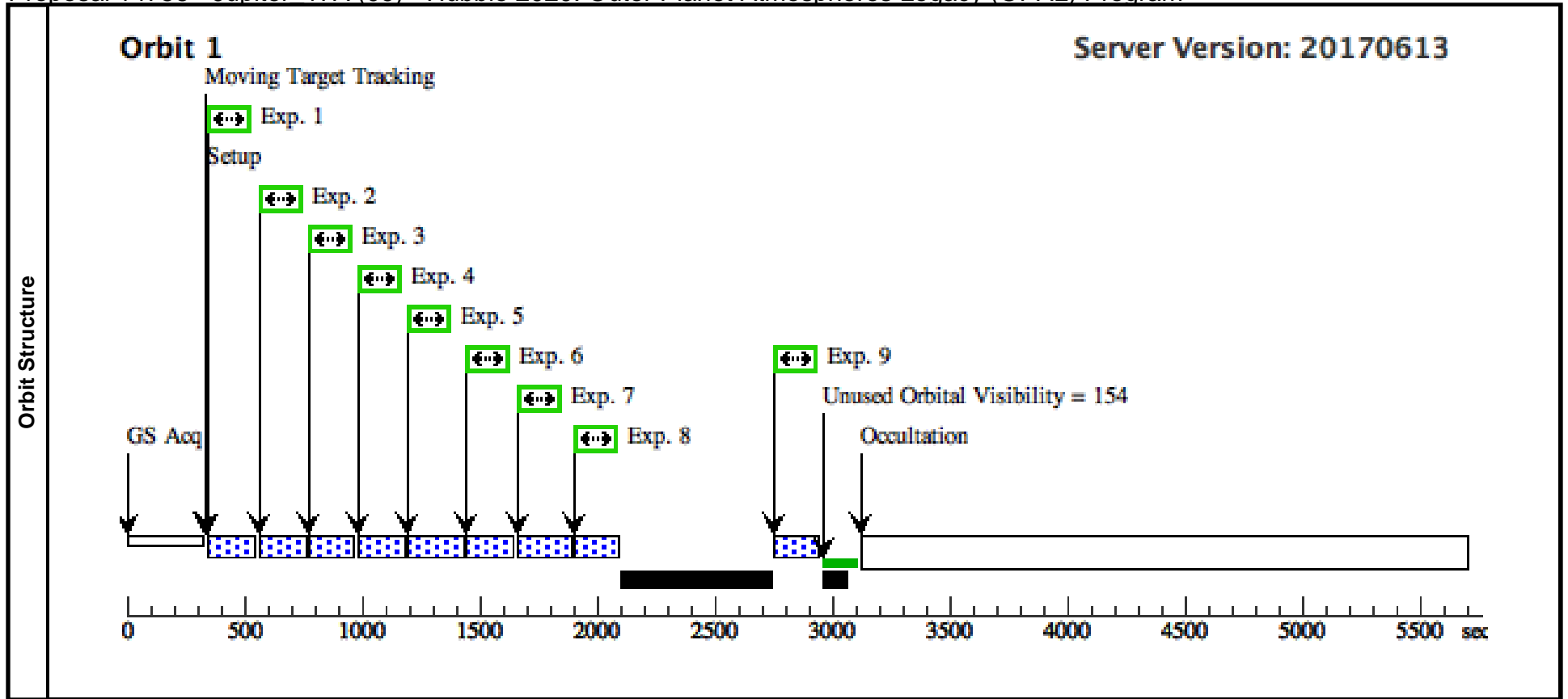
Proposal 14756 - Jupiter 17A (09) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:53 GMT 2017

Visit	<p>Proposal 14756, Jupiter_17A (09), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BEFORE 04-APR-2017:00:00:00; GROUP 09,10,11,12,13,14,16,17,18,19,20,21 WITHIN 23H; VISIBILITY INTERVAL 52 M</p> <p><i>Comments: 13 orbits, should be contiguous, if possible. A gap of 1 or 2 orbits between 6 - 7 OR 7 - 8 is acceptable. Impingement into SAA is OK if the above timing gaps cannot prevent it. Note this time is more constrained than a typical mapping sequence due to alignment with Juno.</i></p> <p><i>observations should overlap with juno perijove 14, which occurs at April 5, 2017 07:08. the 1-way light time is 37 mintues. the perijove longitude is 37 deg (sys III), which is at disk center a little earlier from HST's viewpoint, at UT 05:48. the 13-orbit sequence is 20 hours long.</i></p> <p><i>thus, the earliest start time that would still observe during the perijove pass is 07:08 + 37 min - 20 hours = 11:45 on 4 april.</i></p> <p><i>the latest start time that would still capture the perijove longitude at disk center is 05:40 on 5 april.</i></p>																			
	<p>(F631N (09.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F502N (09.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F395N (09.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F467M (09.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ889_quadA (09.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F658N (09.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F275W (09.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F547M (09.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F631N (09.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>																			
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	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center													
(1)	JUPITER-MAPS	STD=JUPITER			NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH	EARTH														
<p><i>Comments: Extended=YES</i></p>																				

Proposal 14756 - Jupiter 17A (09) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

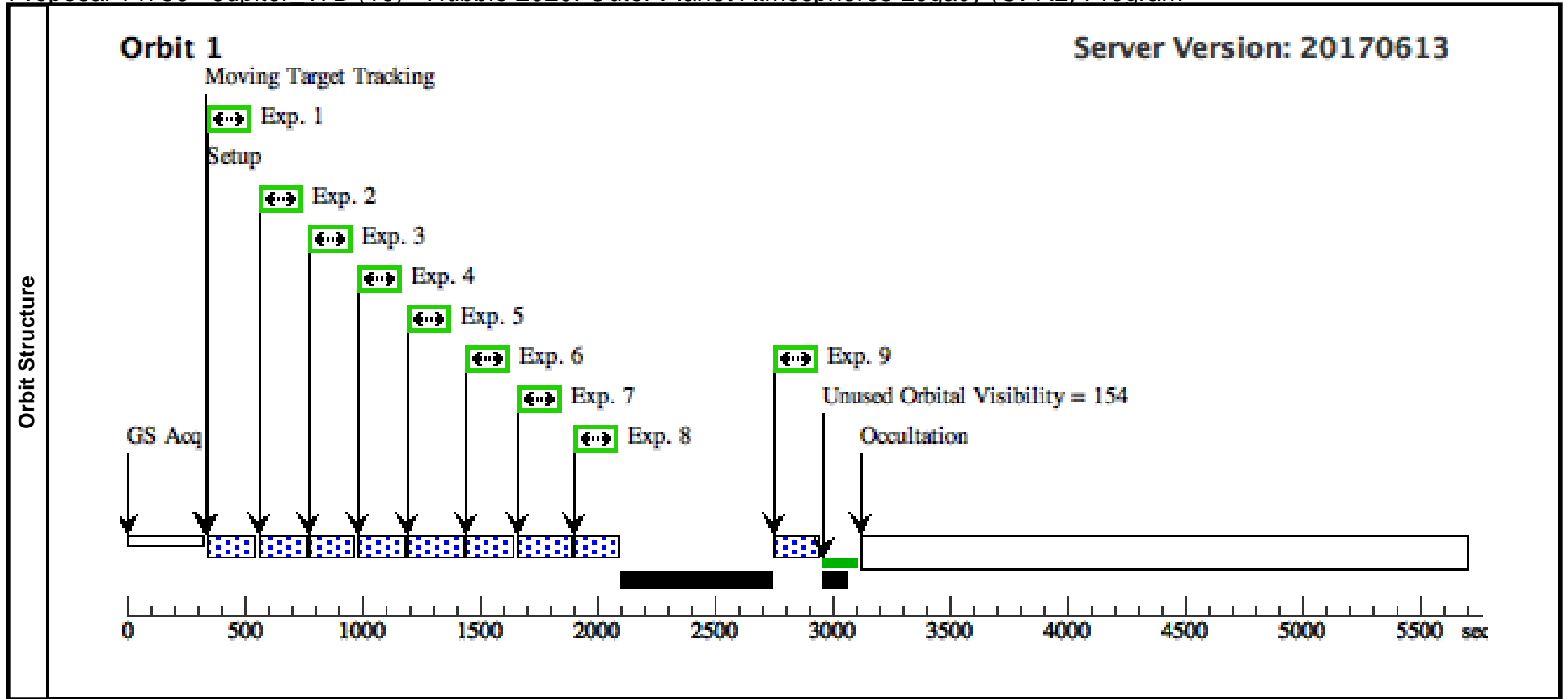
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17A (09)	4 Secs (4 Secs) [==>]	[1]
	2	F502N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17A (09)	3 Secs (3 Secs) [==>]	[1]
	3	F395N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F395N	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17A (09)	10 Secs (10 Secs) [==>]	[1]
	4	F467M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17A (09)	1.2 Secs (1.2 Secs) [==>]	[1]
	5	FQ889_quada	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17A (09)	53 Secs (53 Secs) [==>]	[1]
	6	F658N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F658N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17A (09)	8 Secs (8 Secs) [==>]	[1]
	7	F275W	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17A (09)	30 Secs (30 Secs) [==>]	[1]
	8	F547M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17A (09)	.5 Secs (0.5 Secs) [==>]	[1]
	9	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17A (09)	4 Secs (4 Secs) [==>]	[1]



Proposal 14756 - Jupiter 17B (10) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:53 GMT 2017

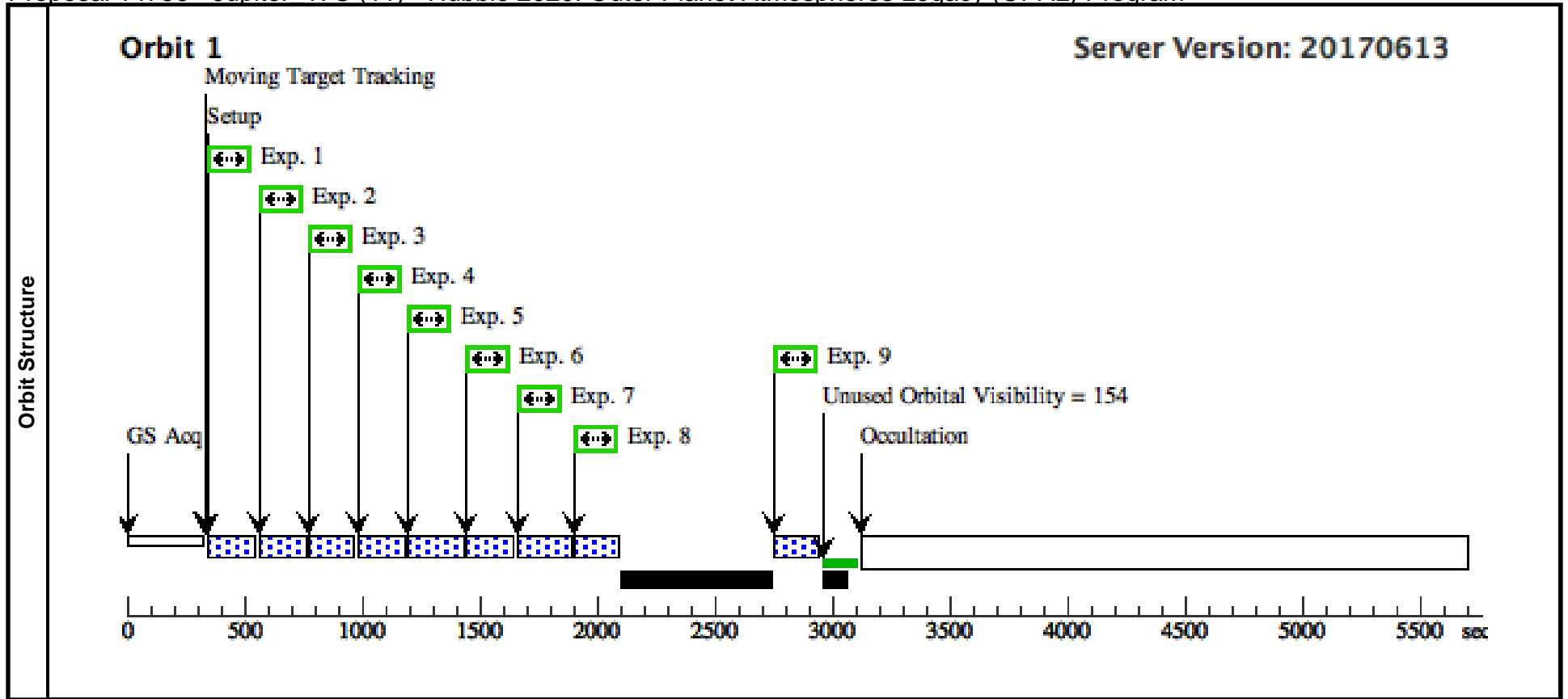
Visit	Proposal 14756, Jupiter_17B (10), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: VISIBILITY INTERVAL 52 M										
	Diagnostics	(F631N (10.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N (10.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N (10.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (10.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (10.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (10.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (10.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (10.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (10.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
Solar System Targets		#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(1)	JUPITER-MAPS	STD=JUPITER				NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH	EARTH			
<i>Comments: Extended=YES</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17B (10)	4 Secs (4 Secs) [==>]	[1]	
	2	F502N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17B (10)	3 Secs (3 Secs) [==>]	[1]	
	3	F395N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F395N	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17B (10)	10 Secs (10 Secs) [==>]	[1]	
	4	F467M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17B (10)	1.2 Secs (1.2 Secs) [==>]	[1]	
	5	FQ889_quadA	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17B (10)	53 Secs (53 Secs) [==>]	[1]	
	6	F658N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F658N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17B (10)	8 Secs (8 Secs) [==>]	[1]	
	7	F275W	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17B (10)	30 Secs (30 Secs) [==>]	[1]	
	8	F547M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17B (10)	.5 Secs (0.5 Secs) [==>]	[1]	
	9	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17B (10)	4 Secs (4 Secs) [==>]	[1]	



Proposal 14756 - Jupiter 17C (11) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:53 GMT 2017

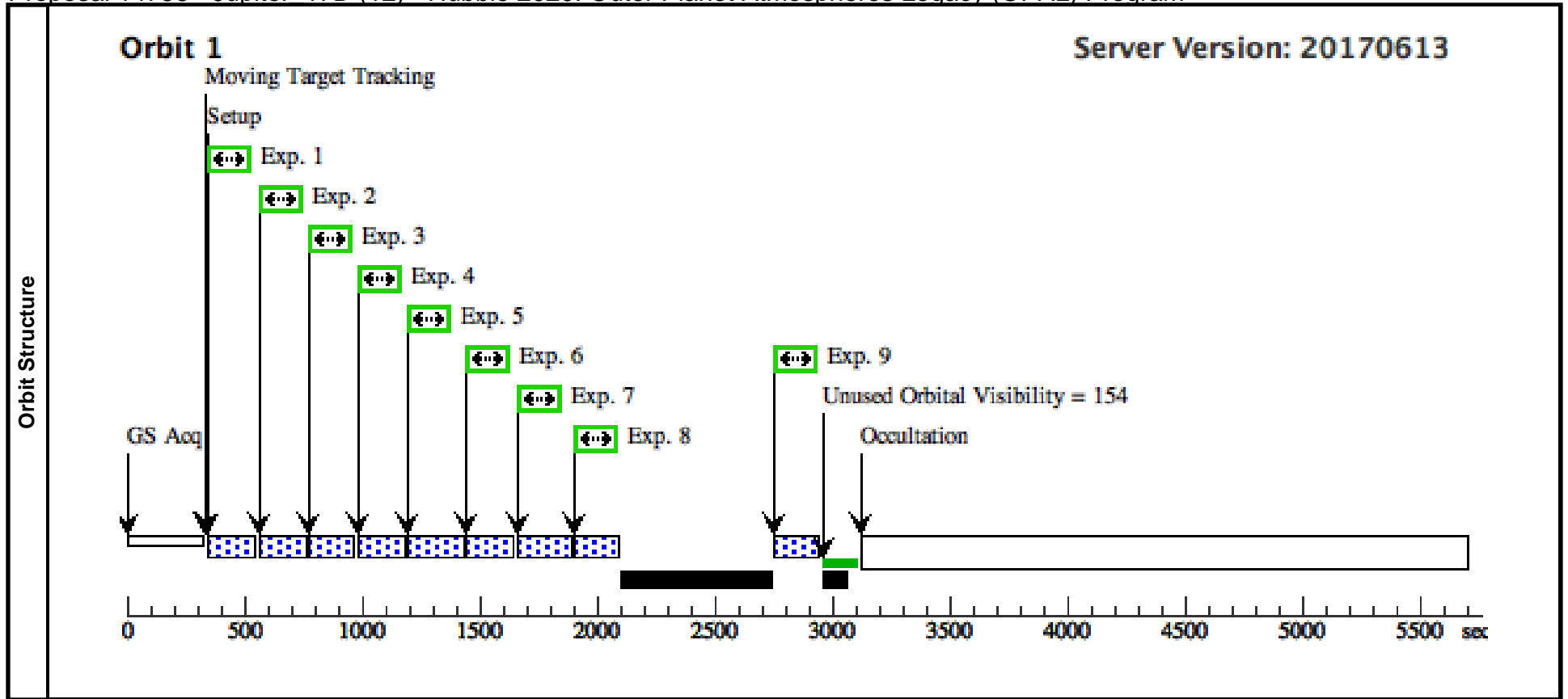
Visit	Proposal 14756, Jupiter_17C (11), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: VISIBILITY INTERVAL 52 M										
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Solar System Targets		#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
		(1)	JUPITER-MAPS	STD=JUPITER			NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH	EARTH			
		<i>Comments: Extended=YES</i>									
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17C (11)	4 Secs (4 Secs) [==>]	[1]
		2	F502N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17C (11)	3 Secs (3 Secs) [==>]	[1]
		3	F395N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F395N	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17C (11)	10 Secs (10 Secs) [==>]	[1]
	4	F467M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17C (11)	1.2 Secs (1.2 Secs) [==>]	[1]	
	5	FQ889_quadA	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17C (11)	53 Secs (53 Secs) [==>]	[1]	
	6	F658N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F658N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17C (11)	8 Secs (8 Secs) [==>]	[1]	
	7	F275W	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17C (11)	30 Secs (30 Secs) [==>]	[1]	
	8	F547M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17C (11)	.5 Secs (0.5 Secs) [==>]	[1]	
	9	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17C (11)	4 Secs (4 Secs) [==>]	[1]	



Proposal 14756 - Jupiter 17D (12) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:53 GMT 2017

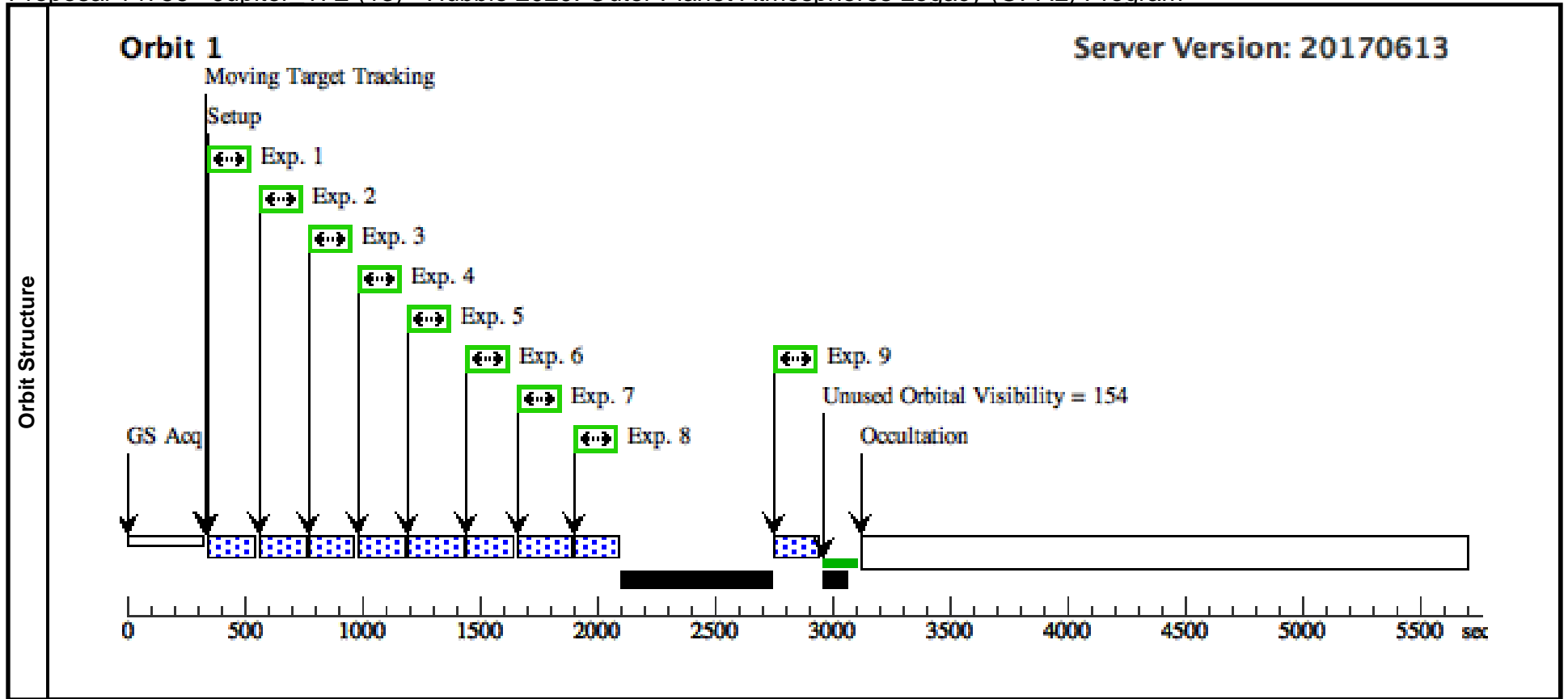
Visit	Proposal 14756, Jupiter_17D (12), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: VISIBILITY INTERVAL 52 M										
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Solar System Targets		#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
		(1)	JUPITER-MAPS	STD=JUPITER			NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH	EARTH			
		<i>Comments: Extended=YES</i>									
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17D (12)	4 Secs (4 Secs) [==>]	[1]
		2	F502N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17D (12)	3 Secs (3 Secs) [==>]	[1]
		3	F395N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F395N	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17D (12)	10 Secs (10 Secs) [==>]	[1]
	4	F467M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17D (12)	1.2 Secs (1.2 Secs) [==>]	[1]	
	5	FQ889_quadA	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17D (12)	53 Secs (53 Secs) [==>]	[1]	
	6	F658N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F658N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17D (12)	8 Secs (8 Secs) [==>]	[1]	
	7	F275W	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17D (12)	30 Secs (30 Secs) [==>]	[1]	
	8	F547M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17D (12)	.5 Secs (0.5 Secs) [==>]	[1]	
	9	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17D (12)	4 Secs (4 Secs) [==>]	[1]	



Proposal 14756 - Jupiter 17E (13) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:53 GMT 2017

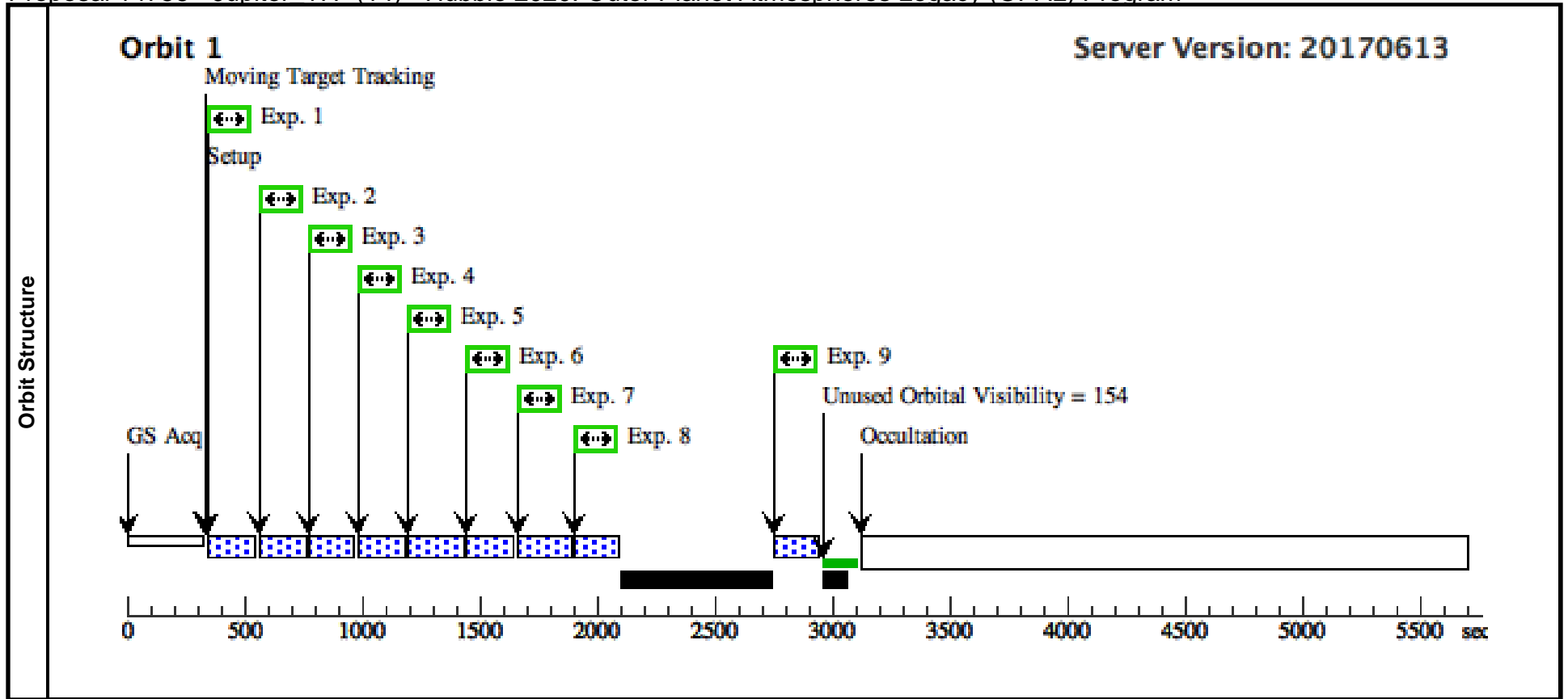
Visit	Proposal 14756, Jupiter_17E (13), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: VISIBILITY INTERVAL 52 M										
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Solar System Targets		#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(1)	JUPITER-MAPS	STD=JUPITER				NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH	EARTH			
<i>Comments: Extended=YES</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17E (13)	4 Secs (4 Secs) [==>]	[1]	
	2	F502N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17E (13)	3 Secs (3 Secs) [==>]	[1]	
	3	F395N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F395N	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17E (13)	10 Secs (10 Secs) [==>]	[1]	
	4	F467M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17E (13)	1.2 Secs (1.2 Secs) [==>]	[1]	
	5	FQ889_quadA	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17E (13)	53 Secs (53 Secs) [==>]	[1]	
	6	F658N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F658N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17E (13)	8 Secs (8 Secs) [==>]	[1]	
	7	F275W	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17E (13)	30 Secs (30 Secs) [==>]	[1]	
	8	F547M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17E (13)	.5 Secs (0.5 Secs) [==>]	[1]	
	9	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17E (13)	4 Secs (4 Secs) [==>]	[1]	



Proposal 14756 - Jupiter 17F (14) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:54 GMT 2017

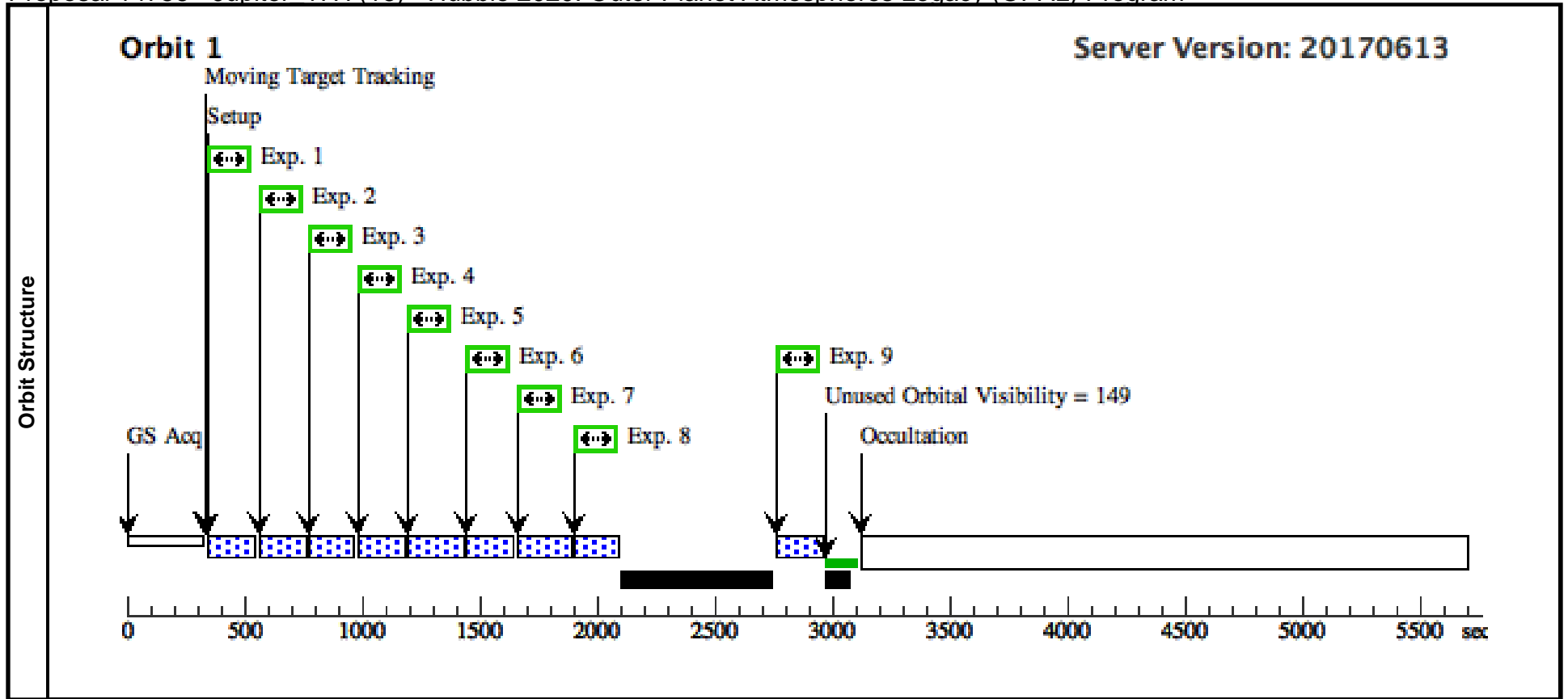
Visit	Proposal 14756, Jupiter_17F (14), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: VISIBILITY INTERVAL 52 M										
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Solar System Targets		#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(1)	JUPITER-MAPS	STD=JUPITER				NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH	EARTH			
<i>Comments: Extended=YES</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A	GS ACQ SCENARI O BASE1B3	Sequence 1-9 Non-Int in Jupiter_17F (14)	4 Secs (4 Secs) [==>]	[1]	
	2	F502N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17F (14)	3 Secs (3 Secs) [==>]	[1]	
	3	F395N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F395N	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17F (14)	10 Secs (10 Secs) [==>]	[1]	
	4	F467M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17F (14)	1.2 Secs (1.2 Secs) [==>]	[1]	
	5	FQ889_quadA	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17F (14)	53 Secs (53 Secs) [==>]	[1]	
	6	F658N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F658N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17F (14)	8 Secs (8 Secs) [==>]	[1]	
	7	F275W	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17F (14)	30 Secs (30 Secs) [==>]	[1]	
	8	F547M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17F (14)	.5 Secs (0.5 Secs) [==>]	[1]	
	9	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17F (14)	4 Secs (4 Secs) [==>]	[1]	



Proposal 14756 - Jupiter 17H (16) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:54 GMT 2017

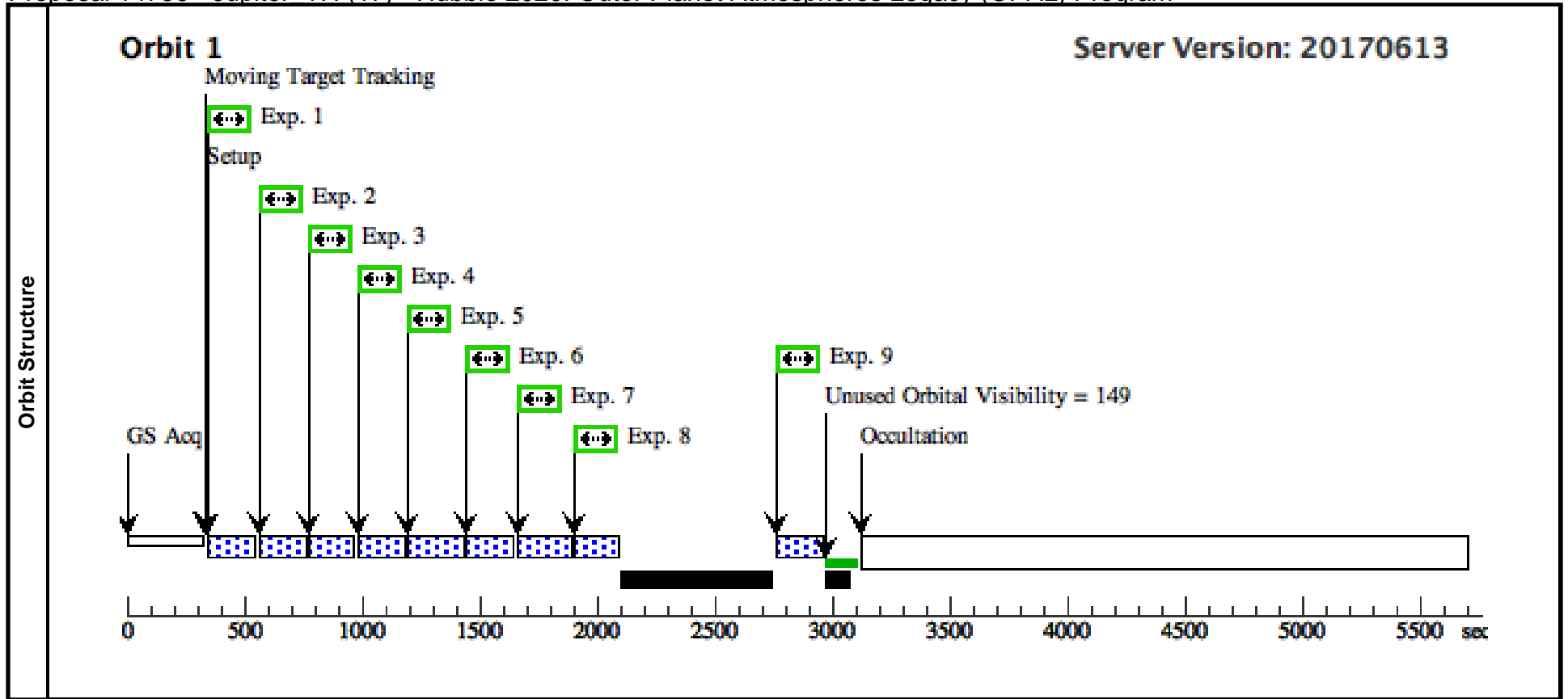
Visit	Proposal 14756, Jupiter_17H (16), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: VISIBILITY INTERVAL 52 M									
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Solar System Targets		#	Name	Level 1	Level 2	Level 3	Window	Ephem Center		
	(1)	JUPITER-MAPS	STD=JUPITER				NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH	EARTH		
	<i>Comments: Extended=YES</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A	GS ACQ SCENARI O BASE1B3	Sequence 1-9 Non-Int in Jupiter_17H (16)	4 Secs (4 Secs) [==>]	[1]
	2	F502N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17H (16)	3 Secs (3 Secs) [==>]	[1]
	3	F395N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F395N	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17H (16)	10 Secs (10 Secs) [==>]	[1]
	4	F467M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17H (16)	1.2 Secs (1.2 Secs) [==>]	[1]
	5	FQ889_quadA	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17H (16)	53 Secs (53 Secs) [==>]	[1]
	6	F658N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F658N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17H (16)	8 Secs (8 Secs) [==>]	[1]
	7	F275W	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17H (16)	30 Secs (30 Secs) [==>]	[1]
	8	F343N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F343N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17H (16)	6 Secs (6 Secs) [==>]	[1]
	9	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17H (16)	4 Secs (4 Secs) [==>]	[1]



Proposal 14756 - Jupiter 171 (17) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:54 GMT 2017

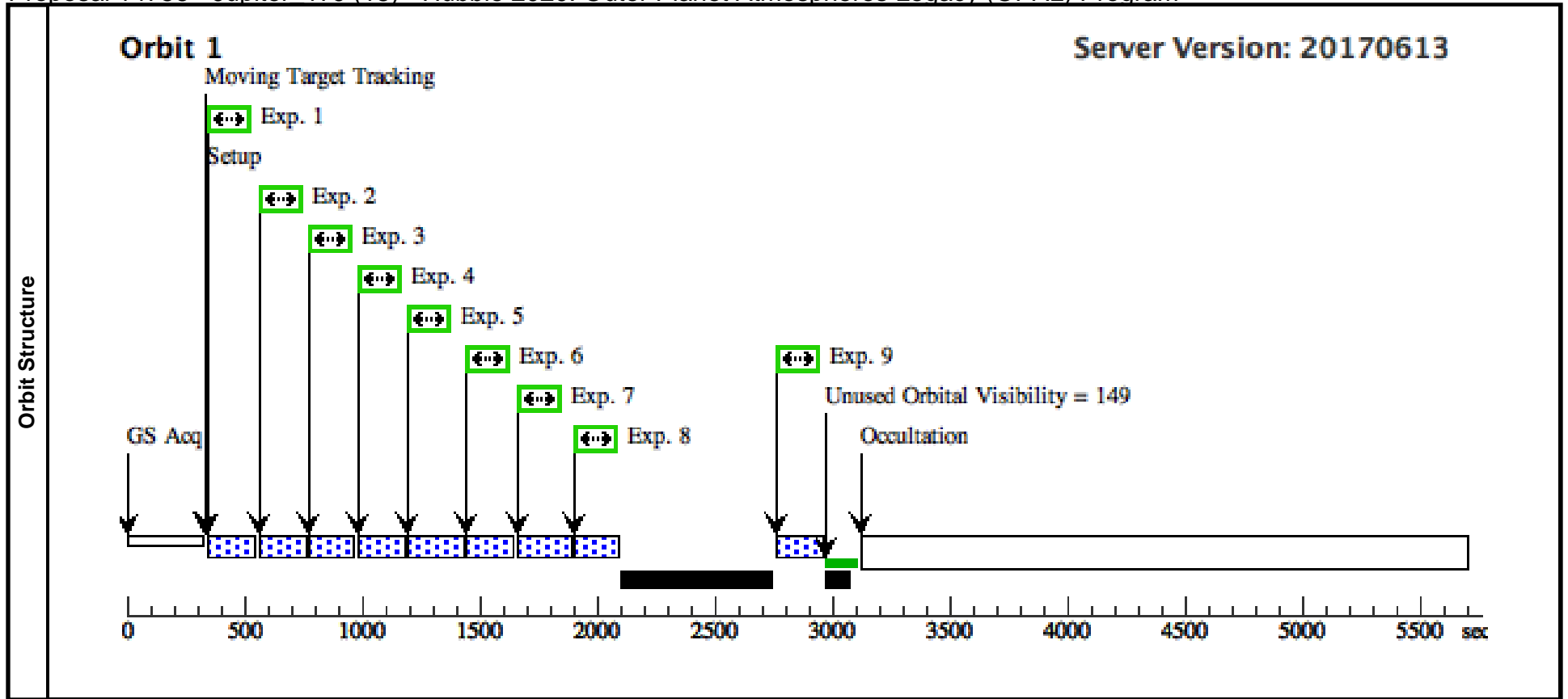
Visit	Proposal 14756, Jupiter_171 (17), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: VISIBILITY INTERVAL 52 M										
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Solar System Targets		#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
		(1)	JUPITER-MAPS	STD=JUPITER			NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH	EARTH			
		<i>Comments: Extended=YES</i>									
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_171 (17)	4 Secs (4 Secs) [==>]	[1]
		2	F502N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_171 (17)	3 Secs (3 Secs) [==>]	[1]
		3	F395N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F395N	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_171 (17)	10 Secs (10 Secs) [==>]	[1]
	4	F467M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_171 (17)	1.2 Secs (1.2 Secs) [==>]	[1]	
	5	FQ889_quadA	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_171 (17)	53 Secs (53 Secs) [==>]	[1]	
	6	F658N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F658N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_171 (17)	8 Secs (8 Secs) [==>]	[1]	
	7	F275W	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_171 (17)	30 Secs (30 Secs) [==>]	[1]	
	8	F343N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F343N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_171 (17)	6 Secs (6 Secs) [==>]	[1]	
	9	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_171 (17)	4 Secs (4 Secs) [==>]	[1]	



Proposal 14756 - Jupiter 17J (18) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:54 GMT 2017

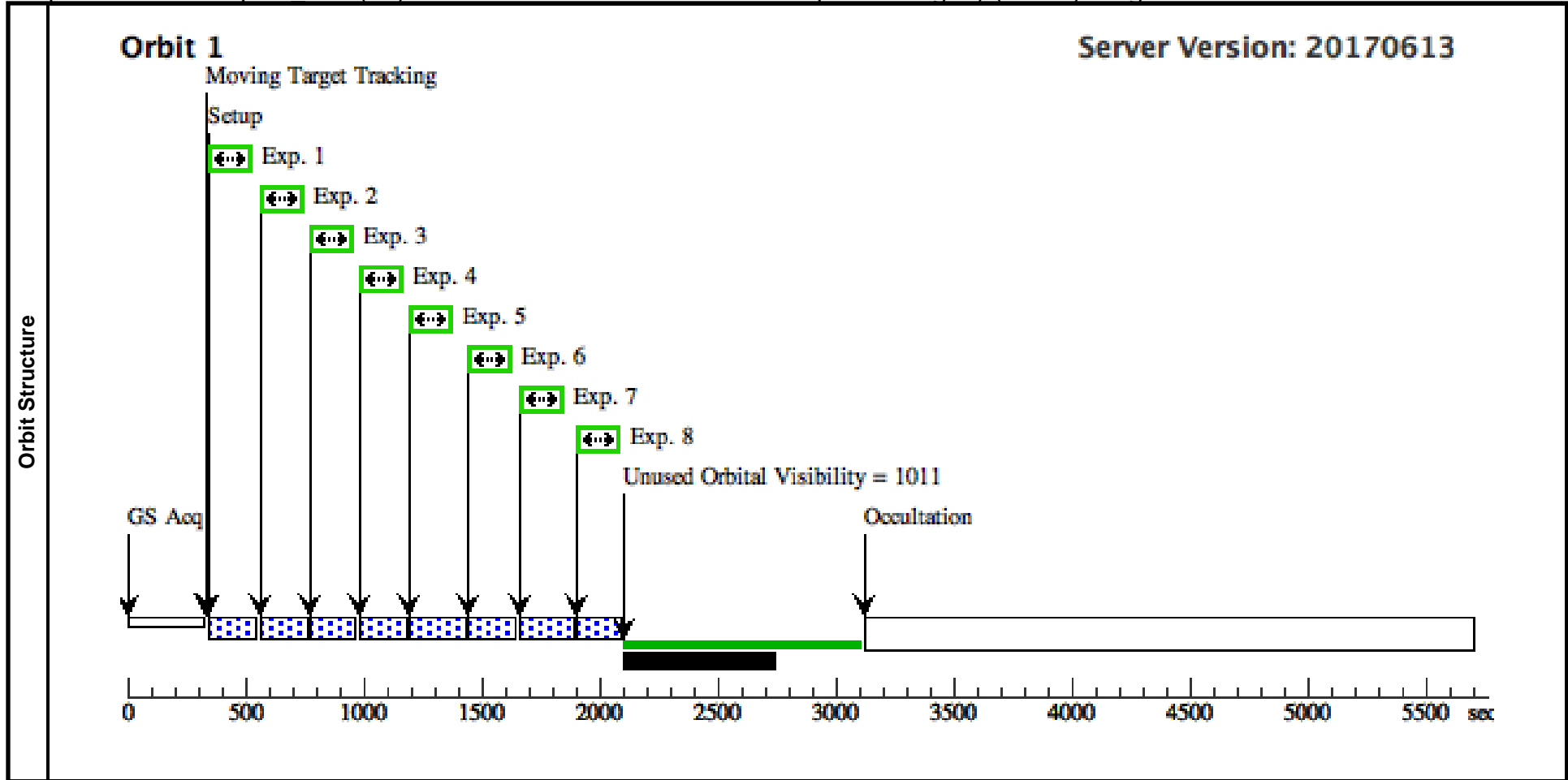
Visit	Proposal 14756, Jupiter_17J (18), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: VISIBILITY INTERVAL 52 M									
	Diagnosics (F631N (18.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N (18.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N (18.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (18.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (18.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (18.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (18.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (18.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (18.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(1)	JUPITER-MAPS	STD=JUPITER			NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH	EARTH			
	<i>Comments: Extended=YES</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17J (18)	4 Secs (4 Secs) [==>]	[1]
	2	F502N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17J (18)	3 Secs (3 Secs) [==>]	[1]
	3	F395N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F395N	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17J (18)	10 Secs (10 Secs) [==>]	[1]
	4	F467M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17J (18)	1.2 Secs (1.2 Secs) [==>]	[1]
	5	FQ889_quadA	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17J (18)	53 Secs (53 Secs) [==>]	[1]
	6	F658N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F658N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17J (18)	8 Secs (8 Secs) [==>]	[1]
	7	F275W	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W	CR-SPLIT=NO		Sequence 1-9 Non-Int in Jupiter_17J (18)	30 Secs (30 Secs) [==>]	[1]
	8	F343N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F343N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17J (18)	6 Secs (6 Secs) [==>]	[1]
	9	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_17J (18)	4 Secs (4 Secs) [==>]	[1]



Proposal 14756 - Jupiter 17K (19) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:54 GMT 2017

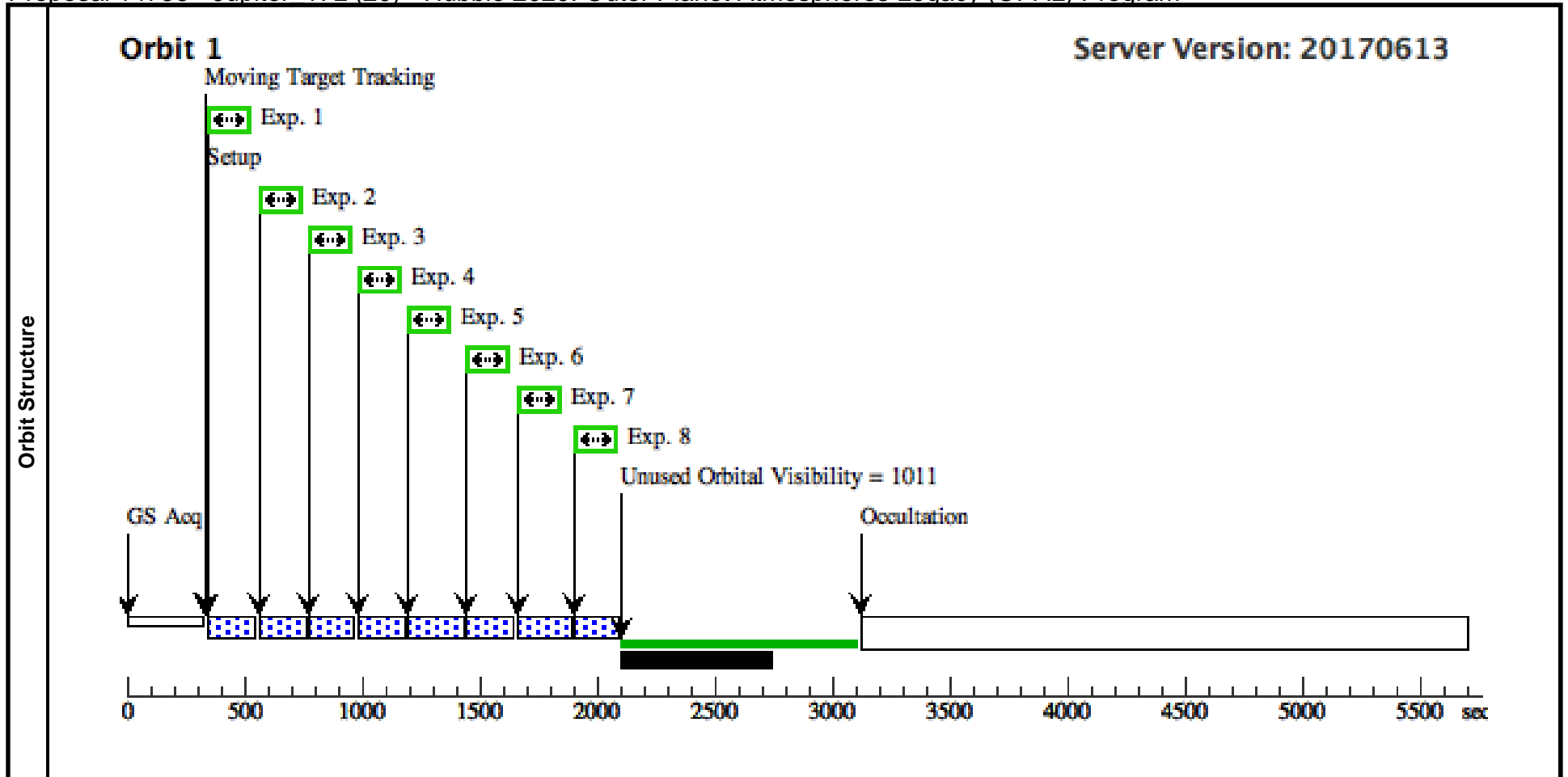
Visit	Proposal 14756, Jupiter_17K (19), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: VISIBILITY INTERVAL 52 M									
	(F631N (19.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N (19.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N (19.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (19.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (19.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (19.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (19.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (19.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
Diagnostics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(1)	JUPITER-MAPS	STD=JUPITER				NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH	EARTH		
<i>Comments: Extended=YES</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_17K (19)	4 Secs (4 Secs) [==>]	[1]
	2	F502N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_17K (19)	3 Secs (3 Secs) [==>]	[1]
	3	F395N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F395N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Jupiter_17K (19)	10 Secs (10 Secs) [==>]	[1]
	4	F467M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_17K (19)	1.2 Secs (1.2 Secs) [==>]	[1]
	5	FQ889_quadA	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Jupiter_17K (19)	53 Secs (53 Secs) [==>]	[1]
	6	F658N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F658N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_17K (19)	8 Secs (8 Secs) [==>]	[1]
	7	F275W	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W	CR-SPLIT=NO		Sequence 1-8 Non-Int in Jupiter_17K (19)	30 Secs (30 Secs) [==>]	[1]
	8	F343N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F343N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_17K (19)	6 Secs (6 Secs) [==>]	[1]



Proposal 14756 - Jupiter 17L (20) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:54 GMT 2017

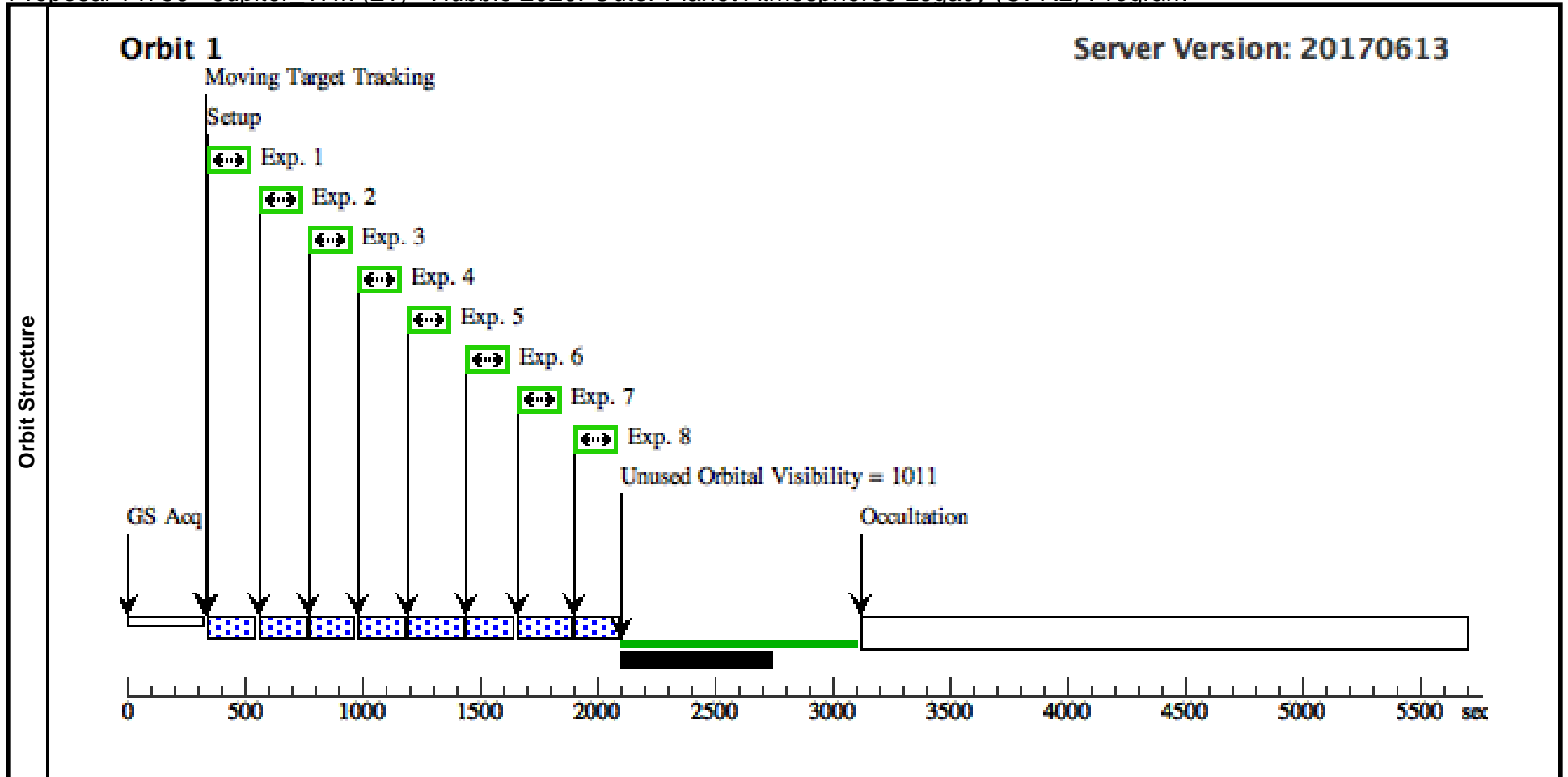
Visit	Proposal 14756, Jupiter_17L (20), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: VISIBILITY INTERVAL 52 M										
	Diagnostics	(F631N (20.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N (20.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N (20.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (20.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (20.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (20.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (20.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (20.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
Solar System Targets		#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
		(1)	JUPITER-MAPS	STD=JUPITER			NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH	EARTH			
<i>Comments: Extended=YES</i>											
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_17L (20)	4 Secs (4 Secs) [==>]	[1]
		2	F502N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_17L (20)	3 Secs (3 Secs) [==>]	[1]
	3	F395N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F395N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Jupiter_17L (20)	10 Secs (10 Secs) [==>]	[1]	
	4	F467M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_17L (20)	1.2 Secs (1.2 Secs) [==>]	[1]	
	5	FQ889_quadA	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Jupiter_17L (20)	53 Secs (53 Secs) [==>]	[1]	
	6	F658N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F658N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_17L (20)	8 Secs (8 Secs) [==>]	[1]	
	7	F275W	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W	CR-SPLIT=NO		Sequence 1-8 Non-Int in Jupiter_17L (20)	30 Secs (30 Secs) [==>]	[1]	
	8	F343N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F343N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_17L (20)	6 Secs (6 Secs) [==>]	[1]	



Proposal 14756 - Jupiter 17M (21) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:54 GMT 2017

Visit	Proposal 14756, Jupiter_17M (21), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: VISIBILITY INTERVAL 52 M										
	Diagnostics	(F631N (21.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N (21.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N (21.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (21.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (21.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (21.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (21.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (21.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
Solar System Targets		#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
		(1)	JUPITER-MAPS	STD=JUPITER			NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH	EARTH			
<i>Comments: Extended=YES</i>											
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_17M (21)	4 Secs (4 Secs) [==>]	[1]
		2	F502N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_17M (21)	3 Secs (3 Secs) [==>]	[1]
	3	F395N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F395N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Jupiter_17M (21)	10 Secs (10 Secs) [==>]	[1]	
	4	F467M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_17M (21)	1.2 Secs (1.2 Secs) [==>]	[1]	
	5	FQ889_quadA	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Jupiter_17M (21)	53 Secs (53 Secs) [==>]	[1]	
	6	F658N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F658N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_17M (21)	8 Secs (8 Secs) [==>]	[1]	
	7	F275W	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W	CR-SPLIT=NO		Sequence 1-8 Non-Int in Jupiter_17M (21)	30 Secs (30 Secs) [==>]	[1]	
	8	F343N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F343N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_17M (21)	6 Secs (6 Secs) [==>]	[1]	



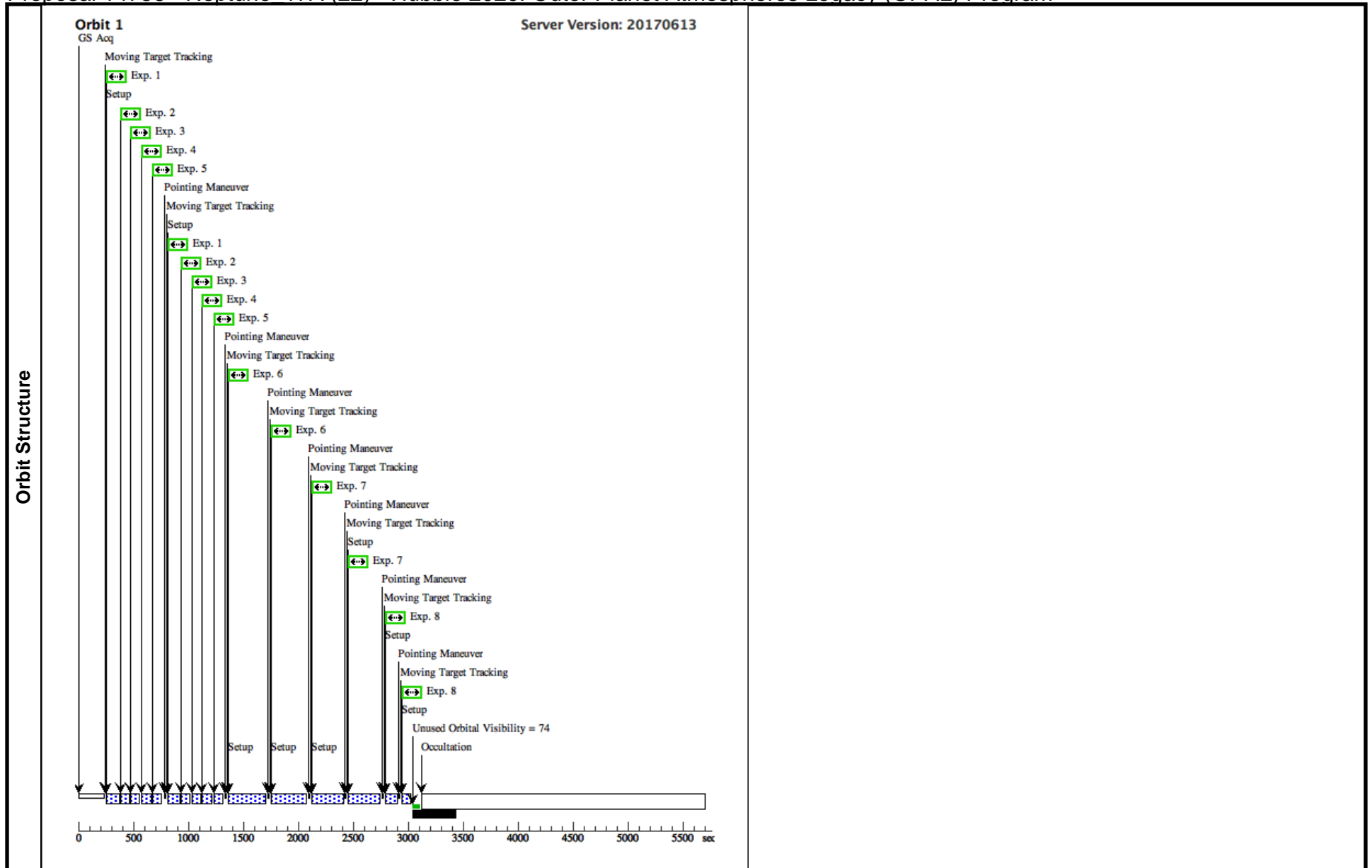
Proposal 14756 - Neptune 17A (22) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:54 GMT 2017

Visit	<p>Proposal 14756, Neptune_17A (22), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 01-AUG-2017:00:00:00 AND 10-OCT-2017:00:00:00; VISIBILITY INTERVAL 52 M</p> <p><i>Comments: Neptune Opposition (2017-SEP-04) +/- 35 days preferred.</i></p> <p><i>9 orbits, with 2-orbit gaps between all visits.</i></p> <p><i>If shifting needed (for SAA avoidance or observatory constraints): Can reduce some gaps from 2 orbits to 1 orbits (no more than 3 gaps shortened overall).</i></p> <p><i>Note: Normal OPAL sequence is 8 Neptune orbits, but a 9th orbit was added in this cycle to compensate for an un-schedulable Jupiter orbit in the sequence. This is because observatory thermal restrictions were enforced due to the very tight timing constraints of the Jupiter sequence (needed to be close to Juno perijove 5).</i></p>																			
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Proposal 14756 - Neptune 17A (22) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARI O SINGLE	Sequence 1-8 Non-Int in Neptune_17A (2 2) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17A (22) (3)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F467M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17A (2 2) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17A (22) (3)	15 Secs (30 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F547M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Neptune_17A (2 2) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17A (22) (3)	6 Secs (12 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F657N	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F657N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17A (2 2) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17A (22) (3)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	F763M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F763M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17A (2 2) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17A (22) (3)	20 Secs (40 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	6	FQ727N_qu adD	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245, +16.537	Sequence 1-8 Non-Int in Neptune_17A (2 2) Pattern 3, Exps 6-6 i n Sequence 1-8 Non- Int in Neptune_17A (22) (3)	150 Secs (300 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	7	FQ619N_qu adA	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,- 18.179	Sequence 1-8 Non-Int in Neptune_17A (2 2) Pattern 3, Exps 7-7 i n Sequence 1-8 Non- Int in Neptune_17A (22) (3)	120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	F845M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17A (2 2) Pattern 3, Exps 8-8 i n Sequence 1-8 Non- Int in Neptune_17A (22) (3)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



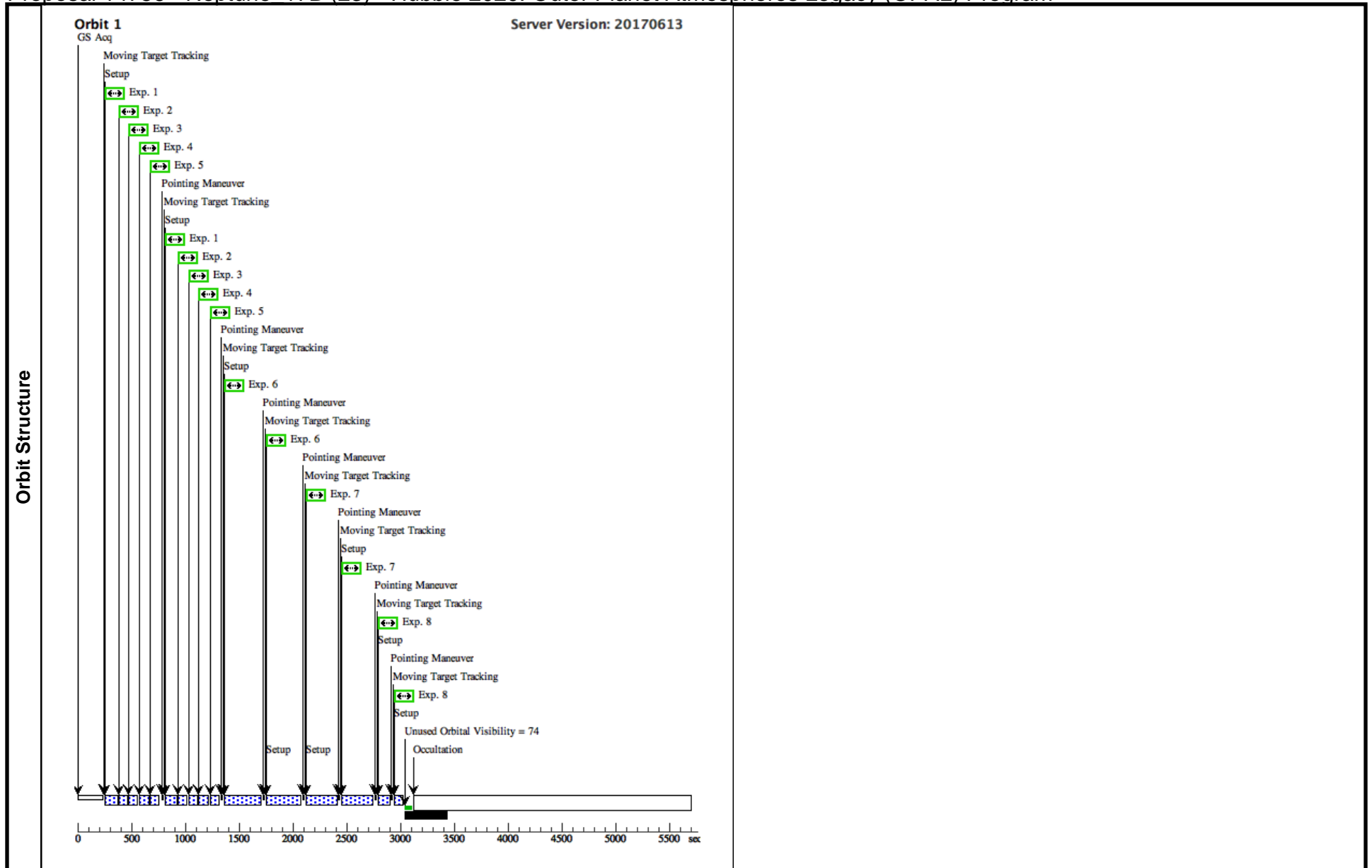
Proposal 14756 - Neptune 17B (23) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:54 GMT 2017

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Proposal 14756 - Neptune 17B (23) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARI O SINGLE	Sequence 1-8 Non-Int in Neptune_17B (2 3) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17B (23) (3)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F467M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17B (2 3) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17B (23) (3)	15 Secs (30 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F547M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Neptune_17B (2 3) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17B (23) (3)	6 Secs (12 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
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	5	F763M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F763M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17B (2 3) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17B (23) (3)	20 Secs (40 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	6	FQ727N_qu adD	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245, +16.537	Sequence 1-8 Non-Int in Neptune_17B (2 3) Pattern 3, Exps 6-6 i n Sequence 1-8 Non- Int in Neptune_17B (23) (3)	150 Secs (300 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	7	FQ619N_qu adA	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,- 18.179	Sequence 1-8 Non-Int in Neptune_17B (2 3) Pattern 3, Exps 7-7 i n Sequence 1-8 Non- Int in Neptune_17B (23) (3)	120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	F845M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17B (2 3) Pattern 3, Exps 8-8 i n Sequence 1-8 Non- Int in Neptune_17B (23) (3)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



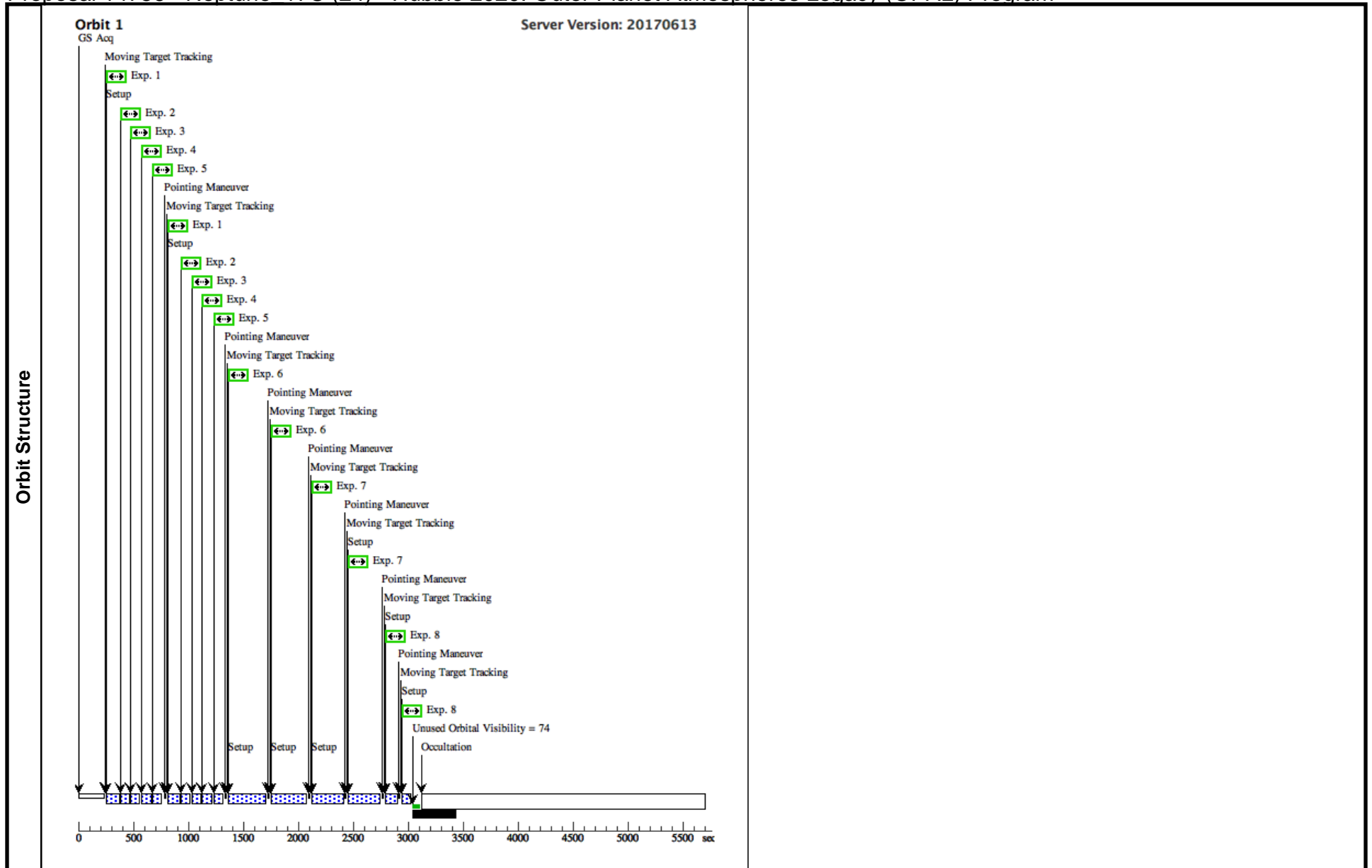
Proposal 14756 - Neptune 17C (24) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:54 GMT 2017

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Proposal 14756 - Neptune 17C (24) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARI O SINGLE	Sequence 1-8 Non-Int in Neptune_17C (2 4) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17C (24) (3)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F467M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17C (2 4) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17C (24) (3)	15 Secs (30 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F547M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Neptune_17C (2 4) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17C (24) (3)	6 Secs (12 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F657N	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F657N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17C (2 4) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17C (24) (3)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	F763M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F763M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17C (2 4) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17C (24) (3)	20 Secs (40 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	6	FQ727N_qu adD	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245, +16.537	Sequence 1-8 Non-Int in Neptune_17C (2 4) Pattern 3, Exps 6-6 i n Sequence 1-8 Non- Int in Neptune_17C (24) (3)	150 Secs (300 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	7	FQ619N_qu adA	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,- 18.179	Sequence 1-8 Non-Int in Neptune_17C (2 4) Pattern 3, Exps 7-7 i n Sequence 1-8 Non- Int in Neptune_17C (24) (3)	120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	F845M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17C (2 4) Pattern 3, Exps 8-8 i n Sequence 1-8 Non- Int in Neptune_17C (24) (3)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



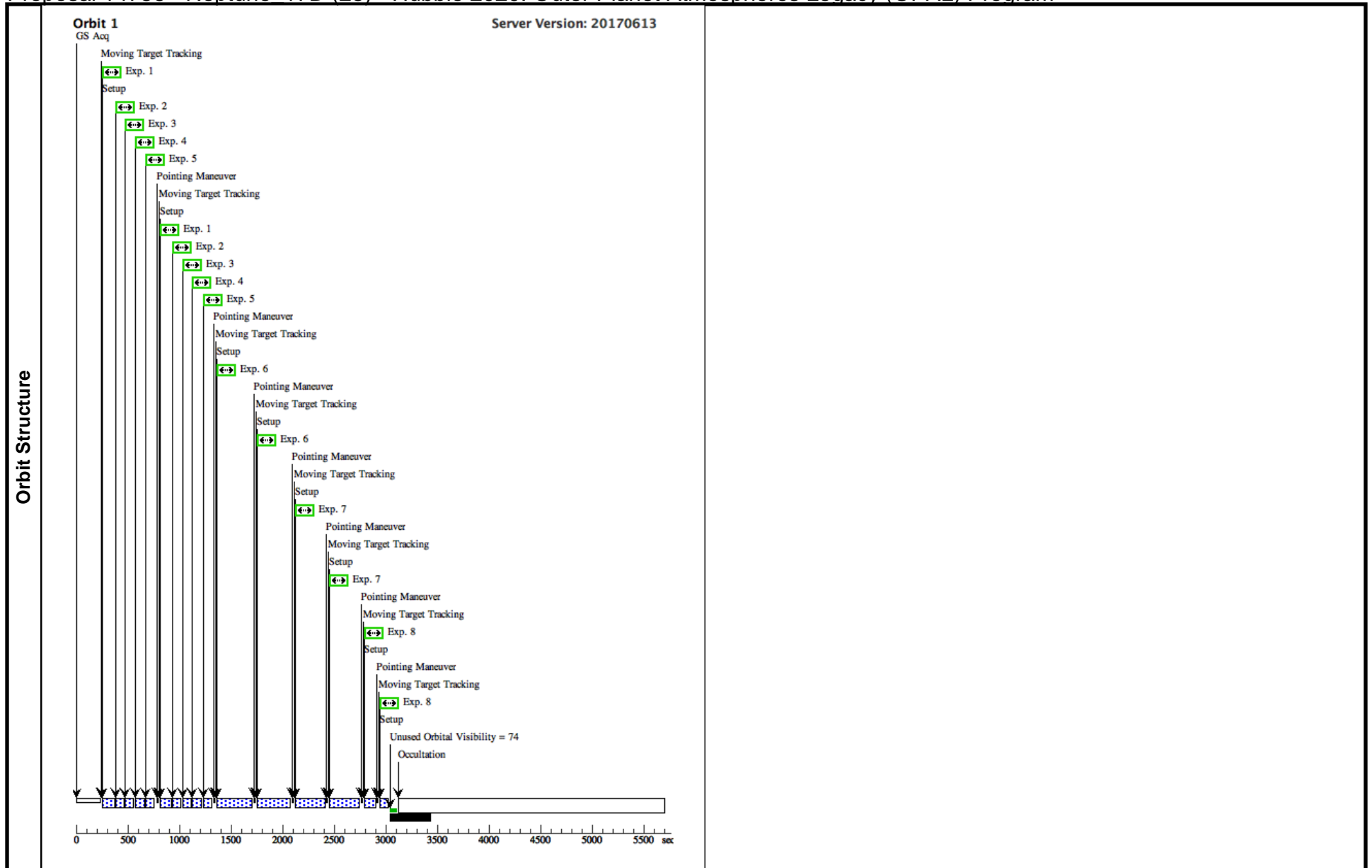
Proposal 14756 - Neptune 17D (25) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

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Proposal 14756 - Neptune 17D (25) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARI O SINGLE	Sequence 1-8 Non-Int in Neptune_17D (2 5) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17D (25) (3)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F467M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17D (2 5) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17D (25) (3)	15 Secs (30 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F547M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Neptune_17D (2 5) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17D (25) (3)	6 Secs (12 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F657N	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F657N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17D (2 5) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17D (25) (3)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	F763M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F763M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17D (2 5) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17D (25) (3)	20 Secs (40 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	6	FQ727N_qu adD	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245, +16.537	Sequence 1-8 Non-Int in Neptune_17D (2 5) Pattern 3, Exps 6-6 i n Sequence 1-8 Non- Int in Neptune_17D (25) (3)	150 Secs (300 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	7	FQ619N_qu adA	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,- 18.179	Sequence 1-8 Non-Int in Neptune_17D (2 5) Pattern 3, Exps 7-7 i n Sequence 1-8 Non- Int in Neptune_17D (25) (3)	120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	F845M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17D (2 5) Pattern 3, Exps 8-8 i n Sequence 1-8 Non- Int in Neptune_17D (25) (3)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



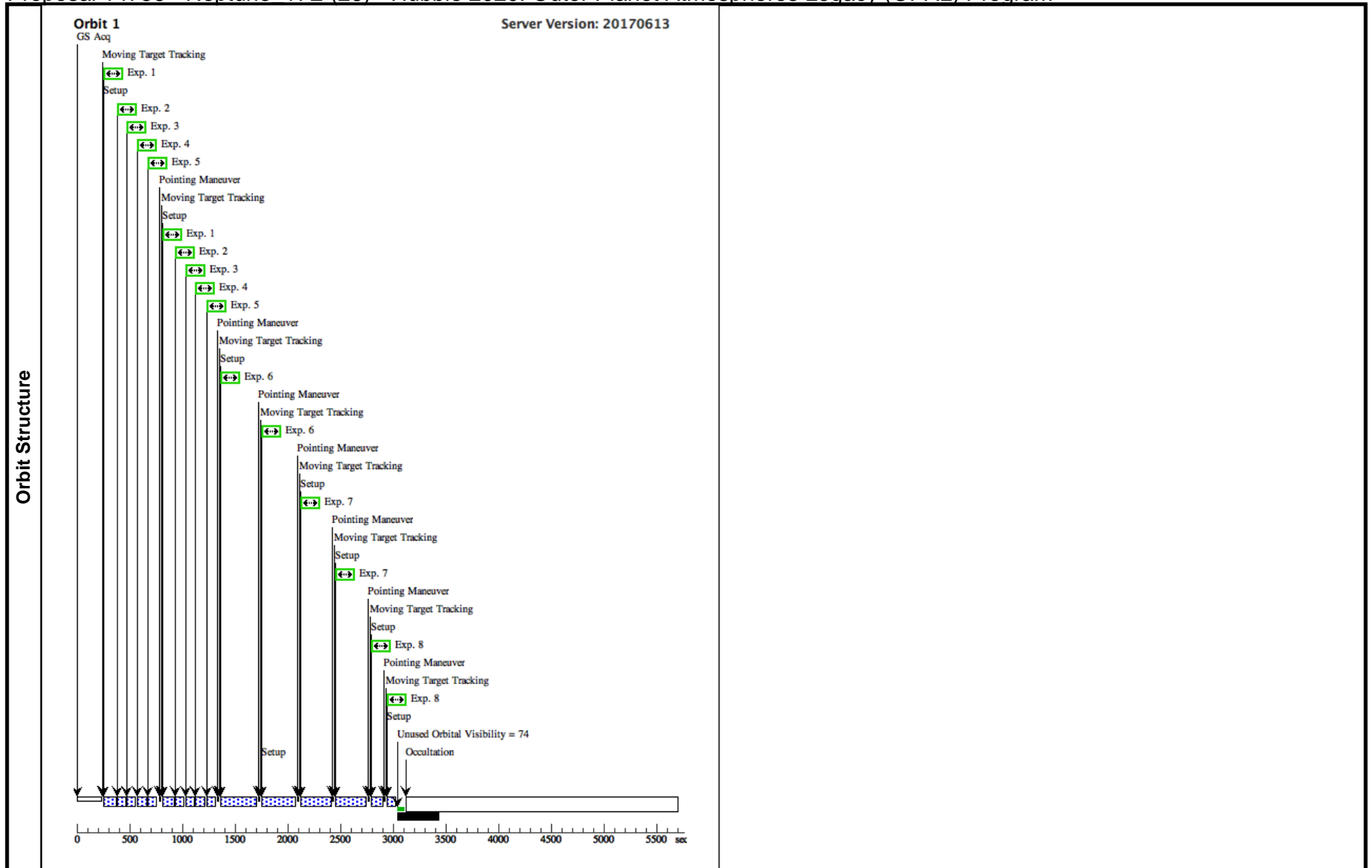
Proposal 14756 - Neptune 17E (26) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:54 GMT 2017

Visit	Proposal 14756, Neptune_17E (26), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 22 BY 8.9 Orbits TO 9.1 Orbits; VISIBILITY INTERVAL 52 M																							
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Proposal 14756 - Neptune 17E (26) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARI O SINGLE	Pattern 3, Exps 1-5 i n Neptune_17E (26) (3)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F467M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Pattern 3, Exps 1-5 i n Neptune_17E (26) (3)	15 Secs (30 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F547M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO; BLADE=A		Pattern 3, Exps 1-5 i n Neptune_17E (26) (3)	6 Secs (12 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F657N	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F657N	CR-SPLIT=NO		Pattern 3, Exps 1-5 i n Neptune_17E (26) (3)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	F763M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F763M	CR-SPLIT=NO		Pattern 3, Exps 1-5 i n Neptune_17E (26) (3)	20 Secs (40 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	6	FQ727N_qu adD	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245, +16.537	Pattern 3, Exps 6-6 i n Neptune_17E (26) (3)	150 Secs (300 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	7	FQ619N_qu adA	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,- 18.179	Pattern 3, Exps 7-7 i n Neptune_17E (26) (3)	120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	F845M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Pattern 3, Exps 8-8 i n Neptune_17E (26) (3)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



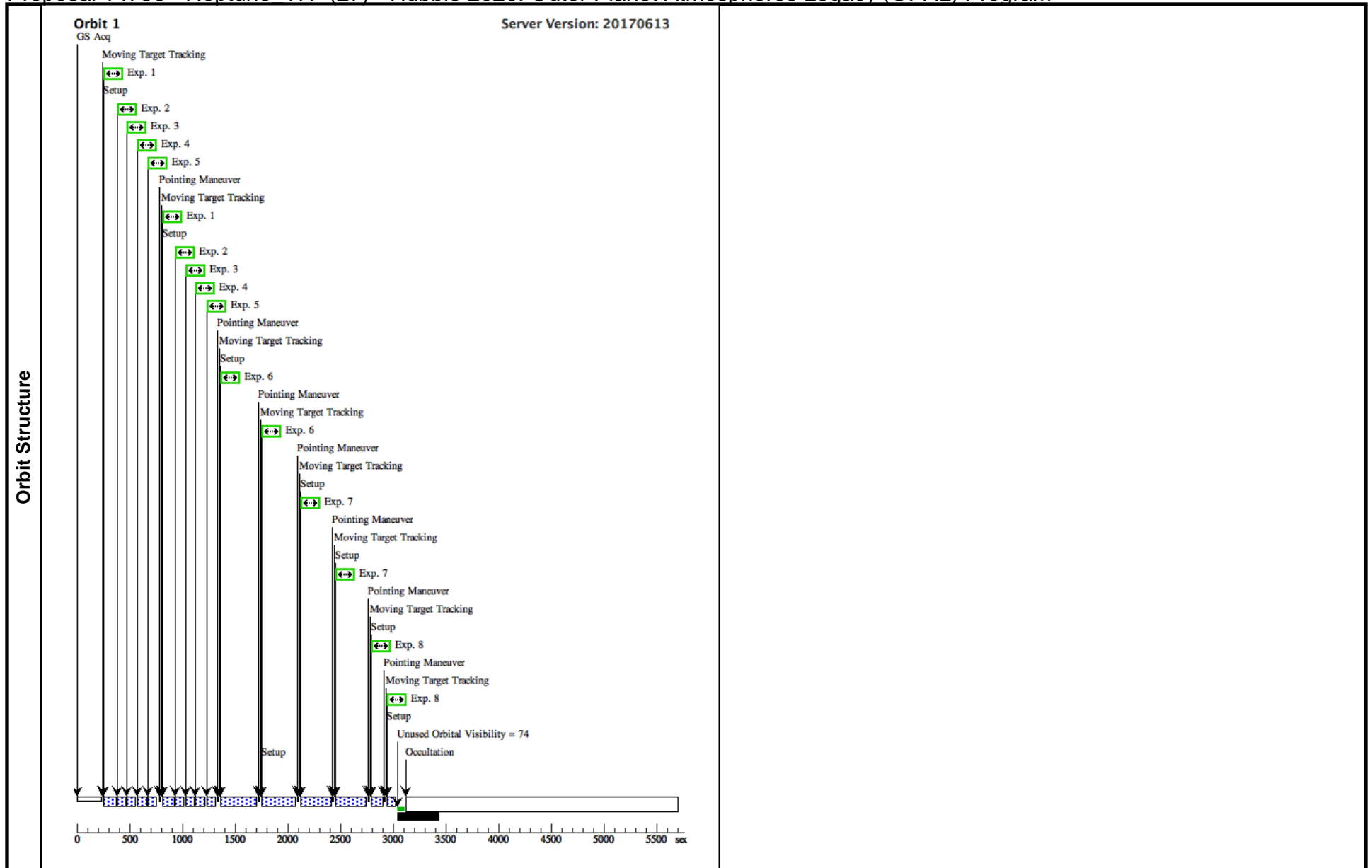
Proposal 14756 - Neptune 17F (27) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:54 GMT 2017

Visit	Proposal 14756, Neptune_17F (27), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 22 BY 11.9 Orbits TO 12.4 Orbits; VISIBILITY INTERVAL 52 M																
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Proposal 14756 - Neptune 17F (27) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARI O SINGLE	Pattern 3, Exps 1-5 i n Neptune_17F (27) (3)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F467M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Pattern 3, Exps 1-5 i n Neptune_17F (27) (3)	15 Secs (30 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F547M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO; BLADE=A		Pattern 3, Exps 1-5 i n Neptune_17F (27) (3)	6 Secs (12 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F657N	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F657N	CR-SPLIT=NO		Pattern 3, Exps 1-5 i n Neptune_17F (27) (3)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	F763M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F763M	CR-SPLIT=NO		Pattern 3, Exps 1-5 i n Neptune_17F (27) (3)	20 Secs (40 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	6	FQ727N_qu adD	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245, +16.537	Pattern 3, Exps 6-6 i n Neptune_17F (27) (3)	150 Secs (300 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	7	FQ619N_qu adA	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,- 18.179	Pattern 3, Exps 7-7 i n Neptune_17F (27) (3)	120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	F845M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Pattern 3, Exps 8-8 i n Neptune_17F (27) (3)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



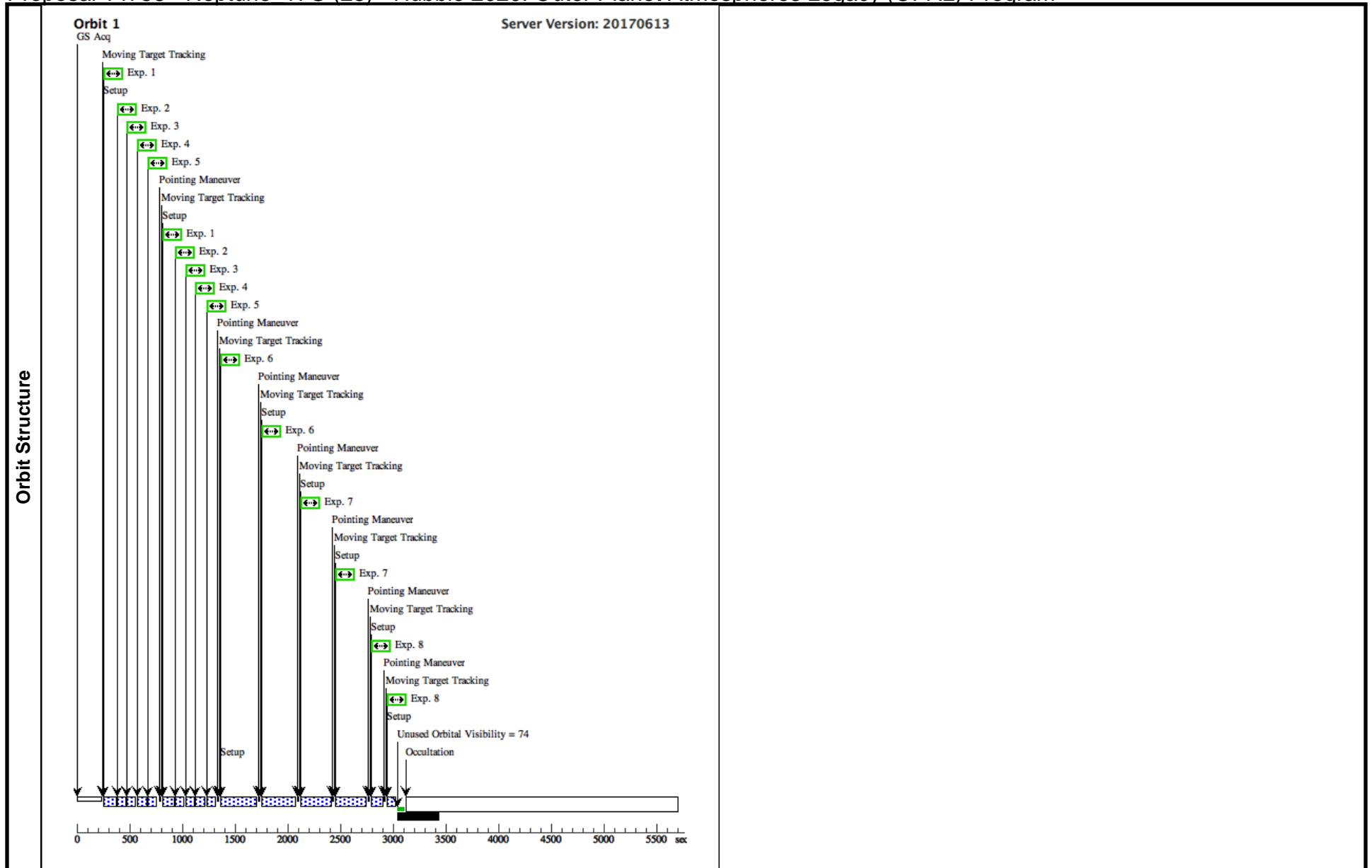
Proposal 14756 - Neptune 17G (28) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:54 GMT 2017

Visit	Proposal 14756, Neptune_17G (28), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 22 BY 14.9 Orbits TO 15.1 Orbits; SEQ 28.29 WITHIN 3 Orbits; VISIBILITY INTERVAL 52 M																							
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Proposal 14756 - Neptune 17G (28) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARI O SINGLE	Sequence 1-8 Non-Int in Neptune_17G (2 8) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17G (28) (3)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F467M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17G (2 8) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17G (28) (3)	15 Secs (30 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F547M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Neptune_17G (2 8) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17G (28) (3)	6 Secs (12 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F657N	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F657N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17G (2 8) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17G (28) (3)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	F763M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F763M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17G (2 8) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17G (28) (3)	20 Secs (40 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	6	FQ727N_qu adD	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245, +16.537	Sequence 1-8 Non-Int in Neptune_17G (2 8) Pattern 3, Exps 6-6 i n Sequence 1-8 Non- Int in Neptune_17G (28) (3)	150 Secs (300 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	7	FQ619N_qu adA	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,- 18.179	Sequence 1-8 Non-Int in Neptune_17G (2 8) Pattern 3, Exps 7-7 i n Sequence 1-8 Non- Int in Neptune_17G (28) (3)	120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	F845M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17G (2 8) Pattern 3, Exps 8-8 i n Sequence 1-8 Non- Int in Neptune_17G (28) (3)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



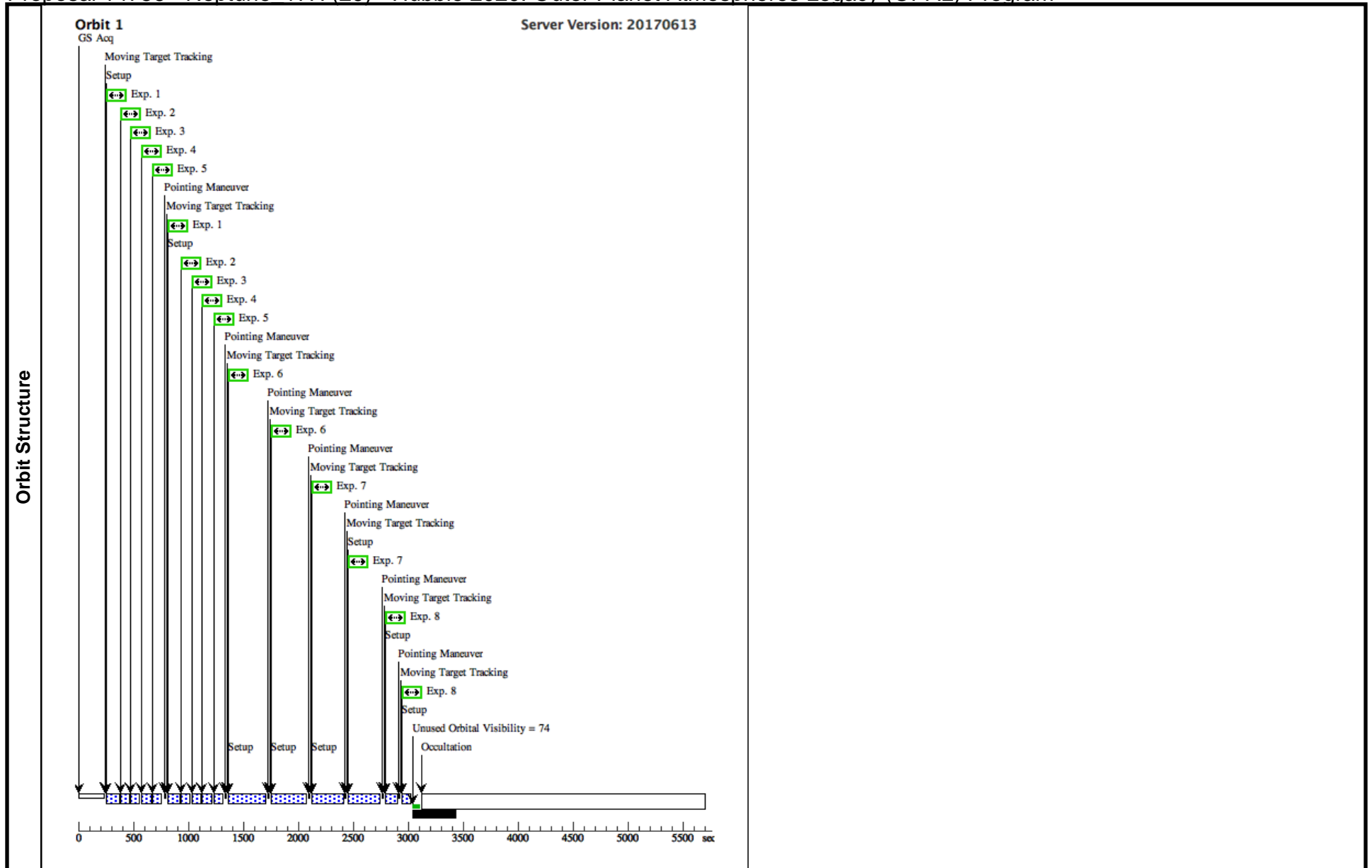
Proposal 14756 - Neptune 17H (29) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:54 GMT 2017

Visit	Proposal 14756, Neptune_17H (29), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 22 BY 17.9 Orbits TO 18.1 Orbits; VISIBILITY INTERVAL 52 M																
	Diagnosics (F845M (29.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (29.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (29.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F657N (29.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (29.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (29.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (29.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (FQ619N_quadA (29.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (29.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (F845M (29.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser																
Patterns	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Pattern</th> <th>Secondary Pattern</th> <th>Exposures</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td> Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= </td> <td> Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false </td> <td>(1-5), (6), (7), (8)</td> </tr> </tbody> </table>	#	Primary Pattern	Secondary Pattern	Exposures	(3)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(1-5), (6), (7), (8)								
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#	Name	Level 1	Level 2	Level 3	Window	Ephem Center											
(4)	NEPTUNE-MAPS	STD=NEPTUNE				EARTH											
Solar System Targets																	

Proposal 14756 - Neptune 17H (29) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARI O SINGLE	Sequence 1-8 Non-Int in Neptune_17H (2 9) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17H (29) (3)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F467M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17H (2 9) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17H (29) (3)	15 Secs (30 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F547M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Neptune_17H (2 9) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17H (29) (3)	6 Secs (12 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F657N	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F657N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17H (2 9) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17H (29) (3)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	F763M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F763M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17H (2 9) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_17H (29) (3)	20 Secs (40 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	6	FQ727N_qu adD	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245, +16.537	Sequence 1-8 Non-Int in Neptune_17H (2 9) Pattern 3, Exps 6-6 i n Sequence 1-8 Non- Int in Neptune_17H (29) (3)	150 Secs (300 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	7	FQ619N_qu adA	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,- 18.179	Sequence 1-8 Non-Int in Neptune_17H (2 9) Pattern 3, Exps 7-7 i n Sequence 1-8 Non- Int in Neptune_17H (29) (3)	120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	F845M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_17H (2 9) Pattern 3, Exps 8-8 i n Sequence 1-8 Non- Int in Neptune_17H (29) (3)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 14756 - Neptune 171 (30) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Fri Aug 11 18:01:54 GMT 2017

Visit	Proposal 14756, Neptune_171 (30), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 22 BY 20.9 Orbits TO 21.1 Orbits; VISIBILITY INTERVAL 52 M																
	Diagnosics (F845M (30.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (30.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (30.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F657N (30.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (30.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (30.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (30.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (FQ619N_quadA (30.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (30.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (F845M (30.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser																
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	#	Primary Pattern	Secondary Pattern	Exposures													
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Proposal 14756 - Neptune 171 (30) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARI O SINGLE	Sequence 1-8 Non-Int in Neptune_171 (30) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_171 (30) (3)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F467M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_171 (30) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_171 (30) (3)	15 Secs (30 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F547M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Neptune_171 (30) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_171 (30) (3)	6 Secs (12 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F657N	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F657N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_171 (30) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_171 (30) (3)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	F763M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F763M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_171 (30) Pattern 3, Exps 1-5 i n Sequence 1-8 Non- Int in Neptune_171 (30) (3)	20 Secs (40 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	6	FQ727N_qu adD	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245, +16.537	Sequence 1-8 Non-Int in Neptune_171 (30) Pattern 3, Exps 6-6 i n Sequence 1-8 Non- Int in Neptune_171 (30) (3)	150 Secs (300 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	7	FQ619N_qu adA	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,- 18.179	Sequence 1-8 Non-Int in Neptune_171 (30) Pattern 3, Exps 7-7 i n Sequence 1-8 Non- Int in Neptune_171 (30) (3)	120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	F845M	(4) NEPTUNE-MAP S	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Neptune_171 (30) Pattern 3, Exps 8-8 i n Sequence 1-8 Non- Int in Neptune_171 (30) (3)	40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]

