



## 15502 - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Cycle: 26, Proposal Category: GO/DD

(Availability Mode: AVAILABLE)

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
<b>Dr. Amy Simon (PI) (Contact)</b>	<b>NASA Goddard Space Flight Center</b>	<b>amy.simon@nasa.gov</b>
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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	03-Sep-2019 09:00:24.0	yes
02	(3) URANUS-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:26.0	yes
03	(3) URANUS-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:28.0	yes
04	(3) URANUS-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:30.0	yes
05	(3) URANUS-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:32.0	yes
06	(3) URANUS-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:33.0	yes
07	(3) URANUS-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:35.0	yes
08	(3) URANUS-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:37.0	yes
09	(1) JUPITER-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:39.0	yes
10	(1) JUPITER-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:40.0	yes
G1	(1) JUPITER-MAPS	S/C	1	03-Sep-2019 09:00:40.0	yes
11	(1) JUPITER-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:41.0	yes

Proposal 15502 (STScI Edit Number: 37, Created: Tuesday, September 3, 2019 at 8:01:21 AM Eastern Standard Time) - Overview

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
12	(1) JUPITER-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:42.0	yes
G2	(1) JUPITER-MAPS	S/C	1	03-Sep-2019 09:00:42.0	yes
13	(1) JUPITER-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:43.0	yes
14	(1) JUPITER-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:44.0	yes
G3	(1) JUPITER-MAPS	S/C	1	03-Sep-2019 09:00:44.0	yes
15	(1) JUPITER-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:45.0	yes
16	(1) JUPITER-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:46.0	yes
17	(1) JUPITER-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:47.0	yes
G4	(1) JUPITER-MAPS	S/C	1	03-Sep-2019 09:00:47.0	yes
18	(1) JUPITER-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:48.0	yes
19	(1) JUPITER-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:49.0	yes
G5	(1) JUPITER-MAPS	S/C	1	03-Sep-2019 09:00:49.0	yes
20	(1) JUPITER-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:50.0	yes
21	(1) JUPITER-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:51.0	yes
22	(4) NEPTUNE-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:52.0	yes
23	(4) NEPTUNE-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:53.0	yes
24	(4) NEPTUNE-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:55.0	yes
25	(4) NEPTUNE-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:56.0	yes
26	(4) NEPTUNE-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:58.0	yes
27	(4) NEPTUNE-MAPS	WFC3/UVIS	1	03-Sep-2019 09:00:59.0	yes
28	(4) NEPTUNE-MAPS	WFC3/UVIS	1	03-Sep-2019 09:01:00.0	yes
29	(4) NEPTUNE-MAPS	WFC3/UVIS	1	03-Sep-2019 09:01:02.0	yes
30	(2) SATURN-MAPS	WFC3/UVIS	1	03-Sep-2019 09:01:04.0	yes
31	(2) SATURN-MAPS	WFC3/UVIS	1	03-Sep-2019 09:01:06.0	yes
G6	(2) SATURN-MAPS	S/C	1	03-Sep-2019 09:01:06.0	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>
32	(2) SATURN-MAPS	WFC3/UVIS	1	03-Sep-2019 09:01:07.0	yes
33	(2) SATURN-MAPS	WFC3/UVIS	1	03-Sep-2019 09:01:09.0	yes
G7	(2) SATURN-MAPS	S/C	1	03-Sep-2019 09:01:09.0	yes
34	(2) SATURN-MAPS	WFC3/UVIS	1	03-Sep-2019 09:01:10.0	yes
35	(2) SATURN-MAPS	WFC3/UVIS	1	03-Sep-2019 09:01:12.0	yes
G8	(2) SATURN-MAPS	S/C	1	03-Sep-2019 09:01:12.0	yes
36	(2) SATURN-MAPS	WFC3/UVIS	1	03-Sep-2019 09:01:13.0	yes
37	(2) SATURN-MAPS	WFC3/UVIS	1	03-Sep-2019 09:01:15.0	yes
G9	(2) SATURN-MAPS	S/C	1	03-Sep-2019 09:01:15.0	yes
38	(2) SATURN-MAPS	WFC3/UVIS	1	03-Sep-2019 09:01:16.0	yes
39	(2) SATURN-MAPS	WFC3/UVIS	1	03-Sep-2019 09:01:18.0	yes
GA	(2) SATURN-MAPS	S/C	1	03-Sep-2019 09:01:18.0	yes
40	(2) SATURN-MAPS	WFC3/UVIS	1	03-Sep-2019 09:01:19.0	yes
41	(2) SATURN-MAPS	WFC3/UVIS	1	03-Sep-2019 09:01:20.0	yes

51 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.

**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

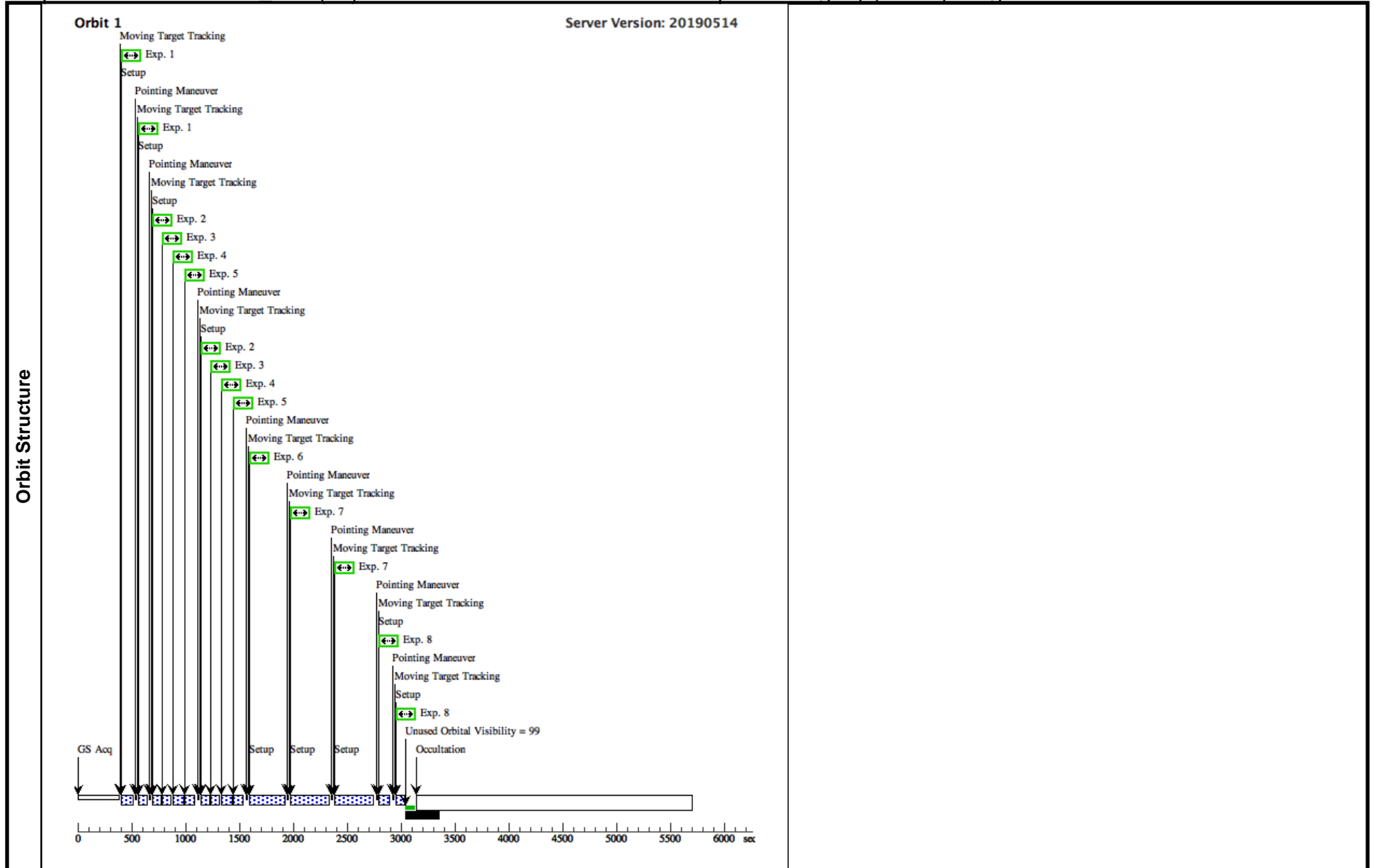
Proposal 15502 - Uranus 18A (01) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:21 GMT 2019

<b>Visit</b>	<p><b>Proposal 15502, Uranus_18A (01), completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 23-SEP-2018:00:00:00 AND 22-NOV-2018:00:00:00</p> <p><i>Comments: Opposition (2017-OCT-19) +/- 35 days preferred. Filters as per Cycle 23/24 for consistency (F657 instead of F658, F763 instead of FQ924)</i></p> <p><i>8 orbits. Visit 8 after visit 1 by 19 orbits. All visits spaced out as evenly as possible, with either 1-orbit or 2-orbit gaps between then. 3-orbit gaps are too big, consecutive orbits are too tight.</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 &amp; 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 &amp; 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>						
<b>Diagnostics</b>	<p><b>#</b>      <b>Primary Pattern</b>      <b>Secondary Pattern</b>      <b>Exposures</b></p>						
	<p>(3)</p>	<p>Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing=</p>	<p>Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false</p>	<p>(1), (2-5), (7), (8)</p>			
<b>Patterns</b>	<p><b>#</b>      <b>Name</b>      <b>Level 1</b>      <b>Level 2</b>      <b>Level 3</b>      <b>Window</b>      <b>Ephem Center</b></p>						
	<p>(3)</p>	<p>URANUS-MAPS</p>	<p>STD=URANUS</p>				<p>EARTH</p>
<b>Solar System Targets</b>	<p><i>Comments: Description=Global Uranus maps</i></p>						

Proposal 15502 - Uranus 18A (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		Sequence 1-8 Non-Int in Uranus_18A (01) Pattern 3, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_18A (01) (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_18A (01) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18A (01) (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_18A (01) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18A (01) (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_18A (01) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18A (01) (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_18A (01) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18A (01) (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_18A (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_18A (01) Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_18A (01) (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_18A (01) Pattern 3, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_18A (01) (3)	35 Secs (70 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



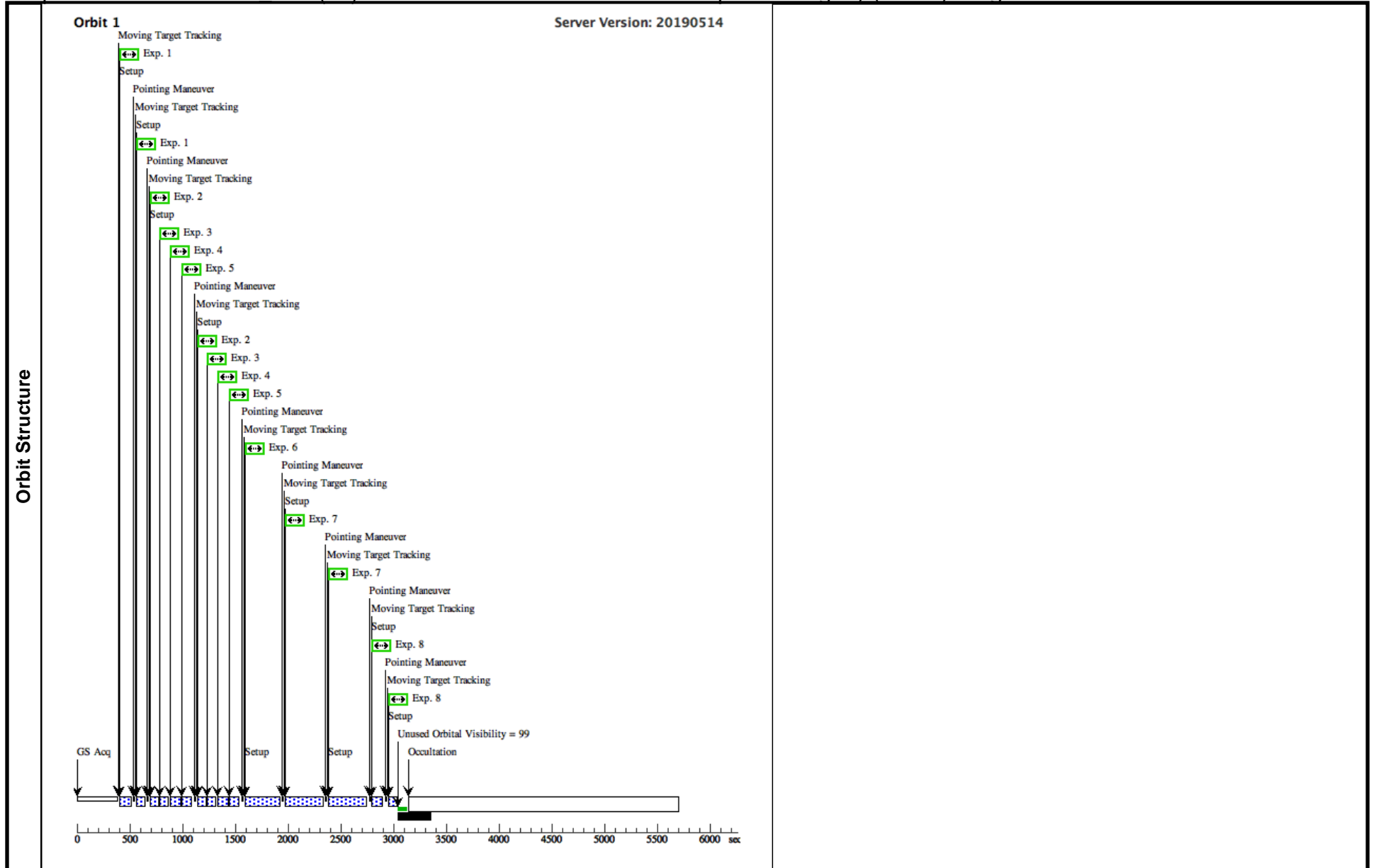
Proposal 15502 - Uranus 18B (02) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:21 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Uranus_18B (02), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 01 BY 1.8 Orbits TO 3.1 Orbits <i>Comments: Opposition +/- 35 days preferred</i>																			
	<b>Diagnostics</b>	(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																		
<b>Patterns</b>		<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)																	
<b>Solar System Targets</b>	<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>						#	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														
<i>Comments: Description=Global Uranus maps</i>																				

Proposal 15502 - Uranus 18B (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		Sequence 1-8 Non-Int in Uranus_18B (02) Pattern 3, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_18B (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_18B (02) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18B (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_18B (02) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18B (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_18B (02) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18B (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_18B (02) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18B (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_18B (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_18B (02) Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_18B (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_18B (02) Pattern 3, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_18B (02) (3)	35 Secs (70 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



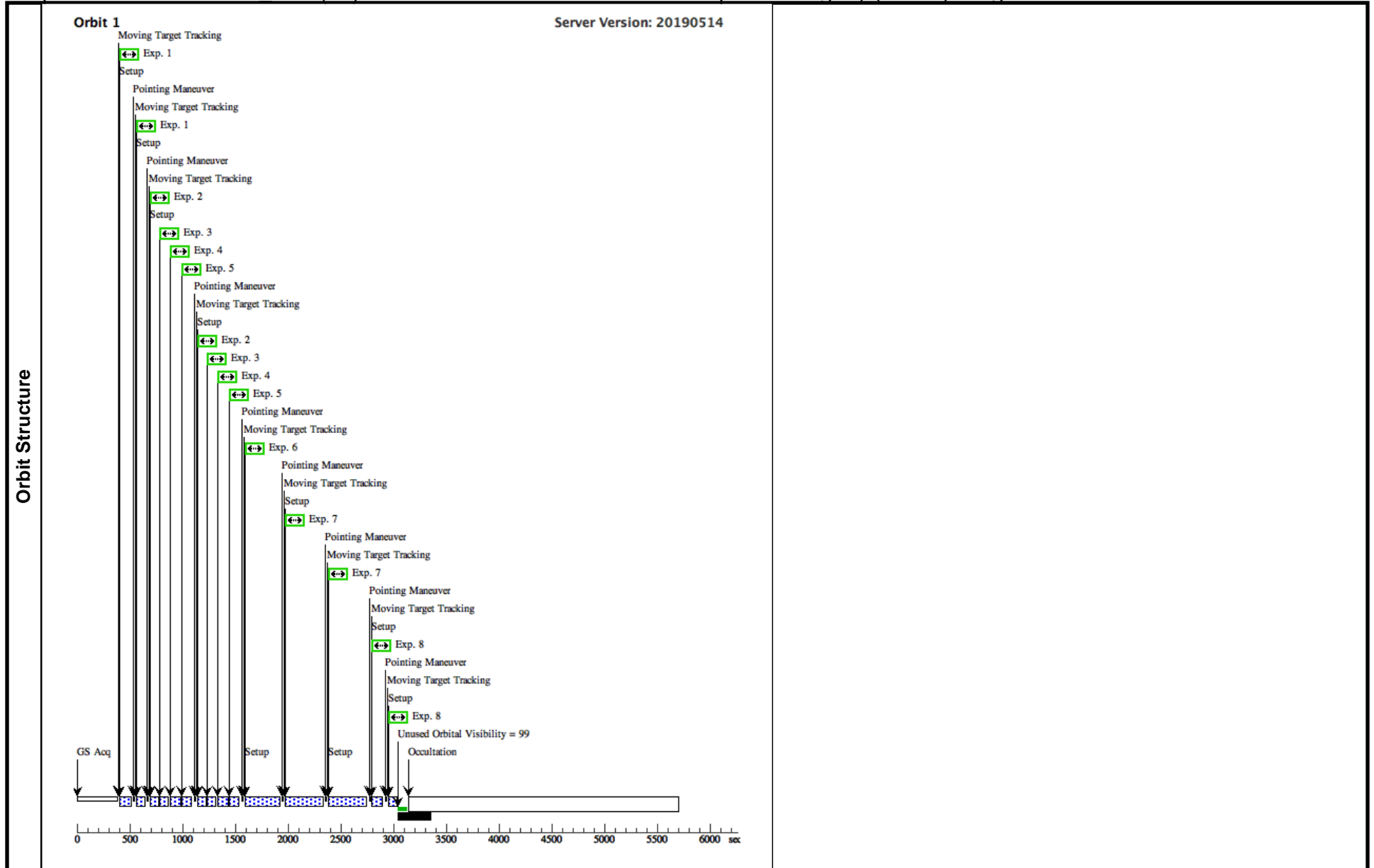
Proposal 15502 - Uranus 18C (03) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:22 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Uranus_18C (03), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 02 BY 1.8 Orbits TO 3.1 Orbits <i>Comments: Opposition +/- 35 days preferred</i>						
	<b>Diagnostics</b>	(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 (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 (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 (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 (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 (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 (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. (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 (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. (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					
<b>Patterns</b>		#	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>		
	(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)			
<b>Solar System Targets</b>	#	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>
	(3)	URANUS-MAPS	STD=URANUS				EARTH
<i>Comments: Description=Global Uranus maps</i>							

Proposal 15502 - Uranus 18C (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		Sequence 1-8 Non-Int in Uranus_18C (03) Pattern 3, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_18C (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_18C (03) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18C (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_18C (03) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18C (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_18C (03) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18C (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_18C (03) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18C (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_18C (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_18C (03) Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_18C (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_18C (03) Pattern 3, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_18C (03) (3)	35 Secs (70 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



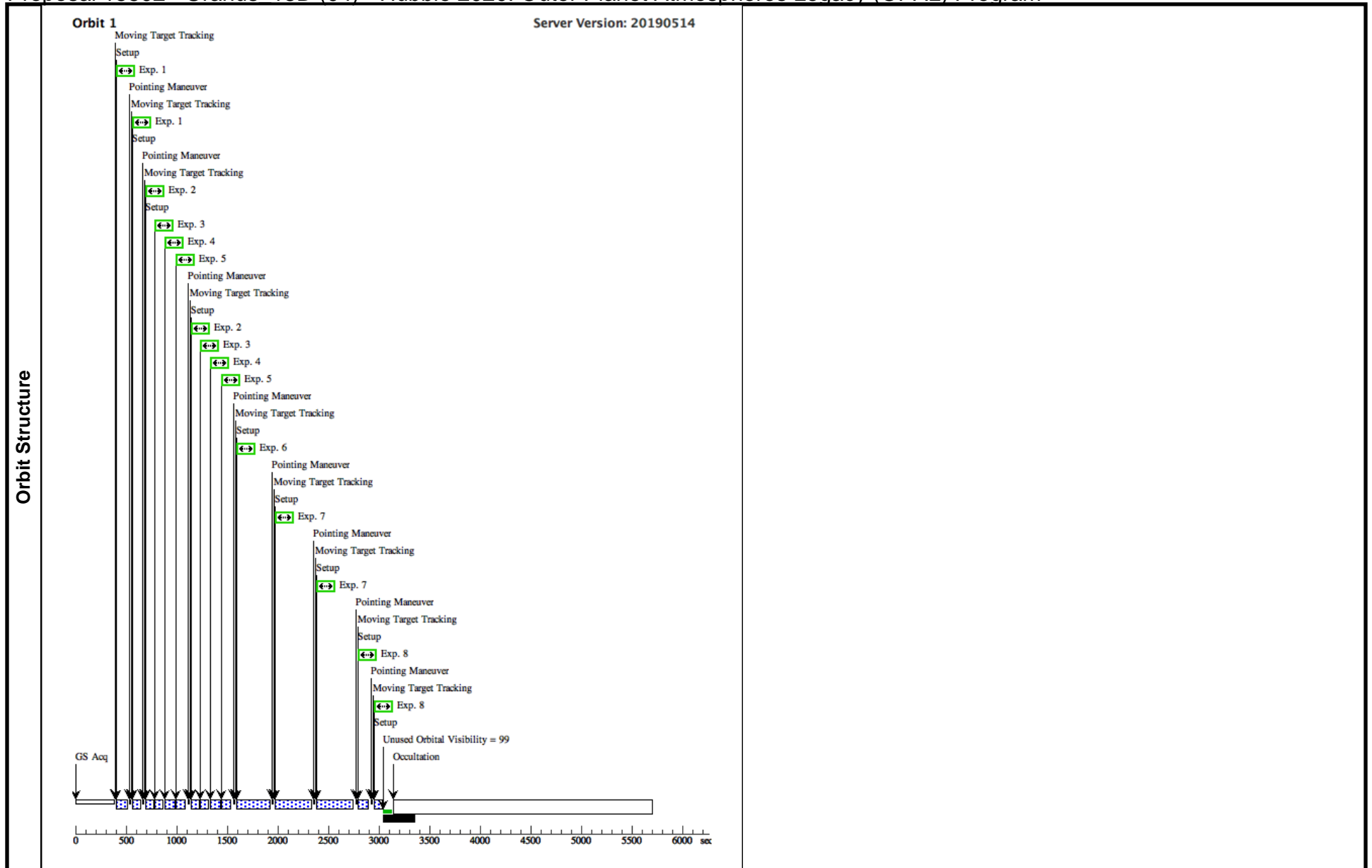
Proposal 15502 - Uranus 18D (04) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:22 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Uranus_18D (04), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 03 BY 1.8 Orbits TO 3.1 Orbits <i>Comments: Opposition +/- 35 days preferred</i>						
	<b>Diagnostics</b>	(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 vignetted 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 vignetted 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					
<b>Patterns</b>		#	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>		
	(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)			
<b>Solar System Targets</b>	#	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>
	(3)	URANUS-MAPS	STD=URANUS				EARTH
<i>Comments: Description=Global Uranus maps</i>							

Proposal 15502 - Uranus 18D (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		Sequence 1-8 Non-Int in Uranus_18D (04)	35 Secs (70 Secs)	
								Pattern 3, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_18D (04) (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_18D (04)	14 Secs (28 Secs)	
								Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18D (04) (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_18D (04)	6 Secs (12 Secs)	
								Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18D (04) (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_18D (04)	40 Secs (80 Secs)	
								Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18D (04) (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_18D (04)	30 Secs (60 Secs)	
							Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18D (04) (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_18D (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_18D (04)	200 Secs (400 Secs)		
							Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_18D (04) (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_18D (04)	35 Secs (70 Secs)		
							Pattern 3, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_18D (04) (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	



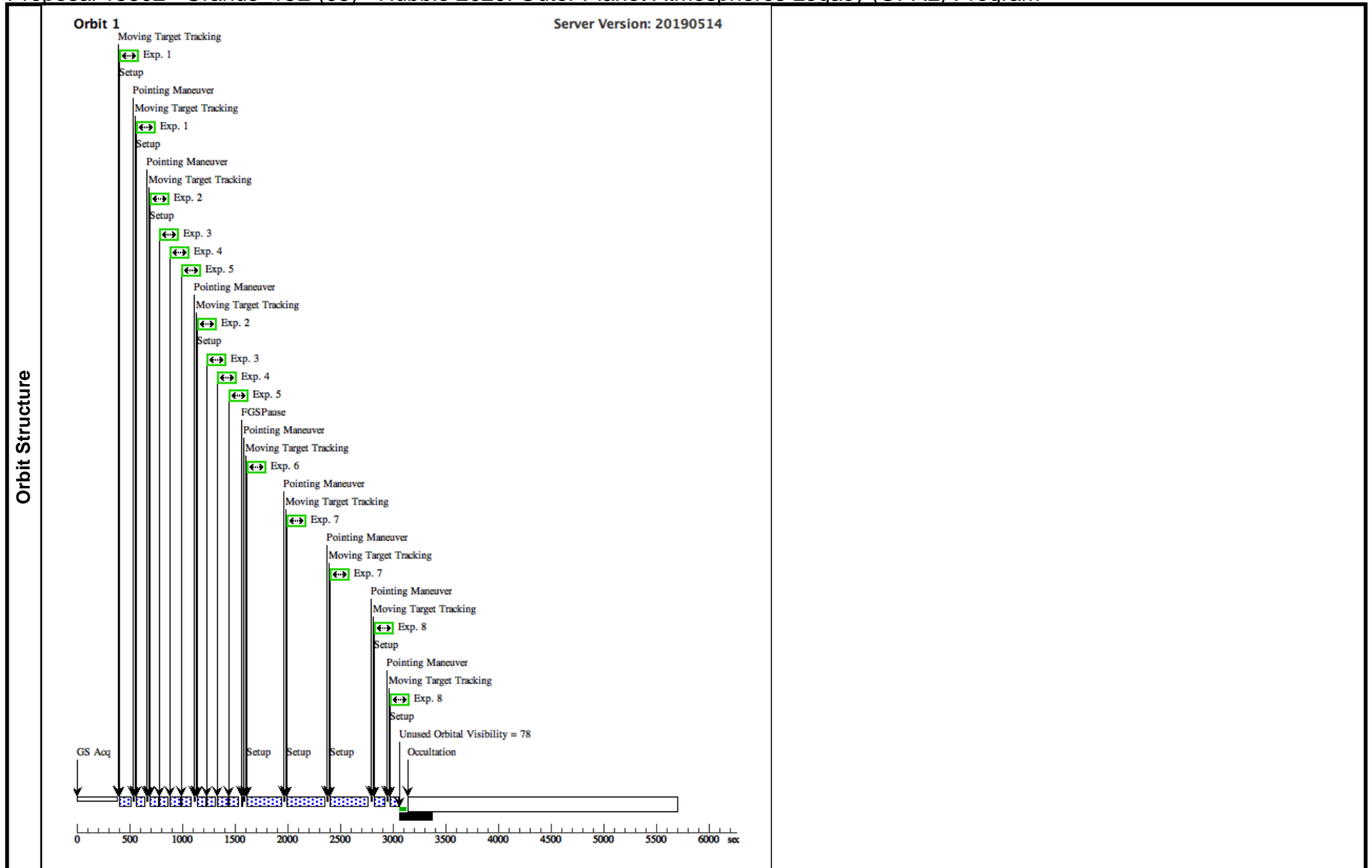
Proposal 15502 - Uranus 18E (05) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:22 GMT 2019

<b>Visit</b>	<p><b>Proposal 15502, Uranus_18E (05), completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: AFTER 04 BY 1.8 Orbits TO 3.1 Orbits</p> <p><i>Comments: Opposition +/- 35 days preferred</i></p>																			
	<p>(Uranus_18E (05)) Warning (Orbit Planner): EXPOSURE WITH SAA CONTOUR 11 WILL EXECUTE ON GYRO</p> <p>(Uranus_18E (05)) Warning (Orbit Planner): EXPOSURE WITH SAA CONTOUR 11 WILL EXECUTE ON GYRO</p> <p>(Uranus_18E (05)) Warning (Orbit Planner): EXPOSURE WITH SAA CONTOUR 11 WILL EXECUTE ON GYRO</p> <p>(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</p> <p>(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</p> <p>(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</p> <p>(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</p> <p>(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</p> <p>(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</p> <p>(FQ619N_quadA (05.006)) Warning (Form): POS TARG &amp; 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 (05.007)) 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 (05.007)) Warning (Form): POS TARG &amp; 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 (05.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>																			
<b>Diagnosics</b>																				
<b>Patterns</b>	<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)																	
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	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center													
(3)	URANUS-MAPS	STD=URANUS				EARTH														

Proposal 15502 - Uranus 18E (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		Sequence 1-8 Non-Int in Uranus_18E (05) Pattern 3, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_18E (05) (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_18E (05) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18E (05) (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_18E (05) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18E (05) (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_18E (05) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18E (05) (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_18E (05) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18E (05) (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; SAA CONTOUR 11; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Uranus_18E (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; SAA CONTOUR 11; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Uranus_18E (05) Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_18E (05) (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	SAA CONTOUR 11; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Uranus_18E (05) Pattern 3, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_18E (05) (3)	35 Secs (70 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



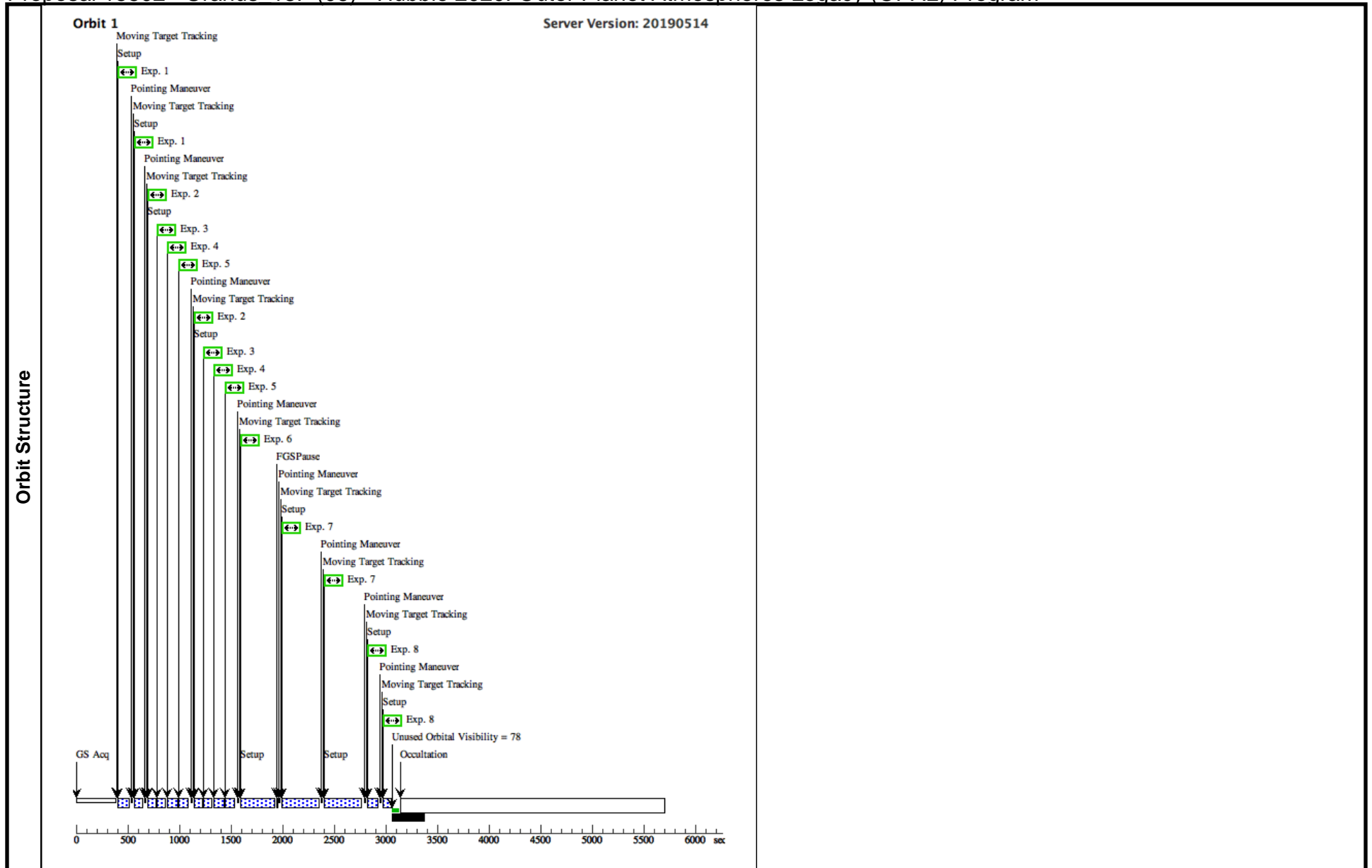
Proposal 15502 - Uranus 18F (06) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:22 GMT 2019

<b>Visit</b>	<p><b>Proposal 15502, Uranus_18F (06), completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: AFTER 05 BY 1.8 Orbits TO 3.1 Orbits</p> <p><i>Comments: Opposition +/- 35 days preferred</i></p>																			
	<p>(Uranus_18F (06)) Warning (Orbit Planner): EXPOSURE WITH SAA CONTOUR 11 WILL EXECUTE ON GYRO</p> <p>(Uranus_18F (06)) Warning (Orbit Planner): EXPOSURE WITH SAA CONTOUR 11 WILL EXECUTE ON GYRO</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 &amp; 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 &amp; 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>																			
<b>Diagnosics</b>																				
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	#	Primary Pattern	Secondary Pattern	Exposures																
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<b>Solar System Targets</b>	<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: Description=Global Uranus maps</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														

Proposal 15502 - Uranus 18F (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		Sequence 1-8 Non-Int in Uranus_18F (06) Pattern 3, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_18F (06) (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_18F (06) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18F (06) (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_18F (06) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18F (06) (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_18F (06) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18F (06) (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_18F (06) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18F (06) (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_18F (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; SAA CONTOUR 11; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Uranus_18F (06) Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_18F (06) (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	SAA CONTOUR 11; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Uranus_18F (06) Pattern 3, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_18F (06) (3)	35 Secs (70 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



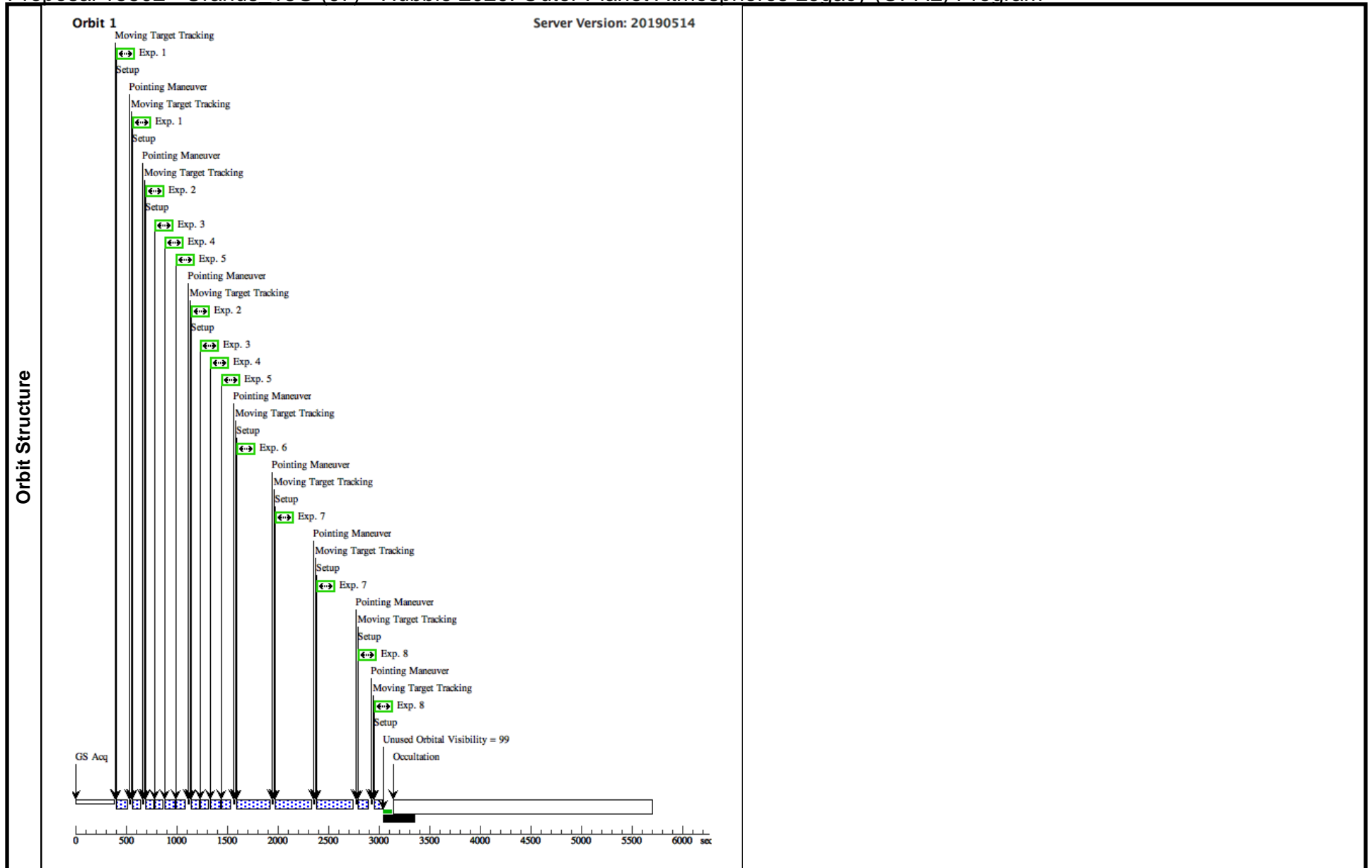
Proposal 15502 - Uranus 18G (07) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:22 GMT 2019

<b>Visit</b>	<p><b>Proposal 15502, Uranus_18G (07), completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: AFTER 06 BY 1.8 Orbits TO 3.1 Orbits</p> <p><i>Comments: Opposition +/- 35 days preferred</i></p>						
	<b>Diagnostics</b>	<p>(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</p> <p>(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</p> <p>(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</p> <p>(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</p> <p>(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</p> <p>(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</p> <p>(FQ619N_quadA (07.006)) Warning (Form): POS TARG &amp; 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 (07.007)) 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 (07.007)) Warning (Form): POS TARG &amp; 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 (07.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>					
<b>Patterns</b>		#	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>		
	(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)			
<b>Solar System Targets</b>	#	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>
	(3)	URANUS-MAPS	STD=URANUS				EARTH
<p><i>Comments: Description=Global Uranus maps</i></p>							

Proposal 15502 - Uranus 18G (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		Sequence 1-8 Non-Int in Uranus_18G (07) Pattern 3, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_18G (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_18G (07) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18G (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_18G (07) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18G (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_18G (07) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18G (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_18G (07) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18G (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_18G (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_18G (07) Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_18G (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_18G (07) Pattern 3, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_18G (07) (3)	35 Secs (70 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



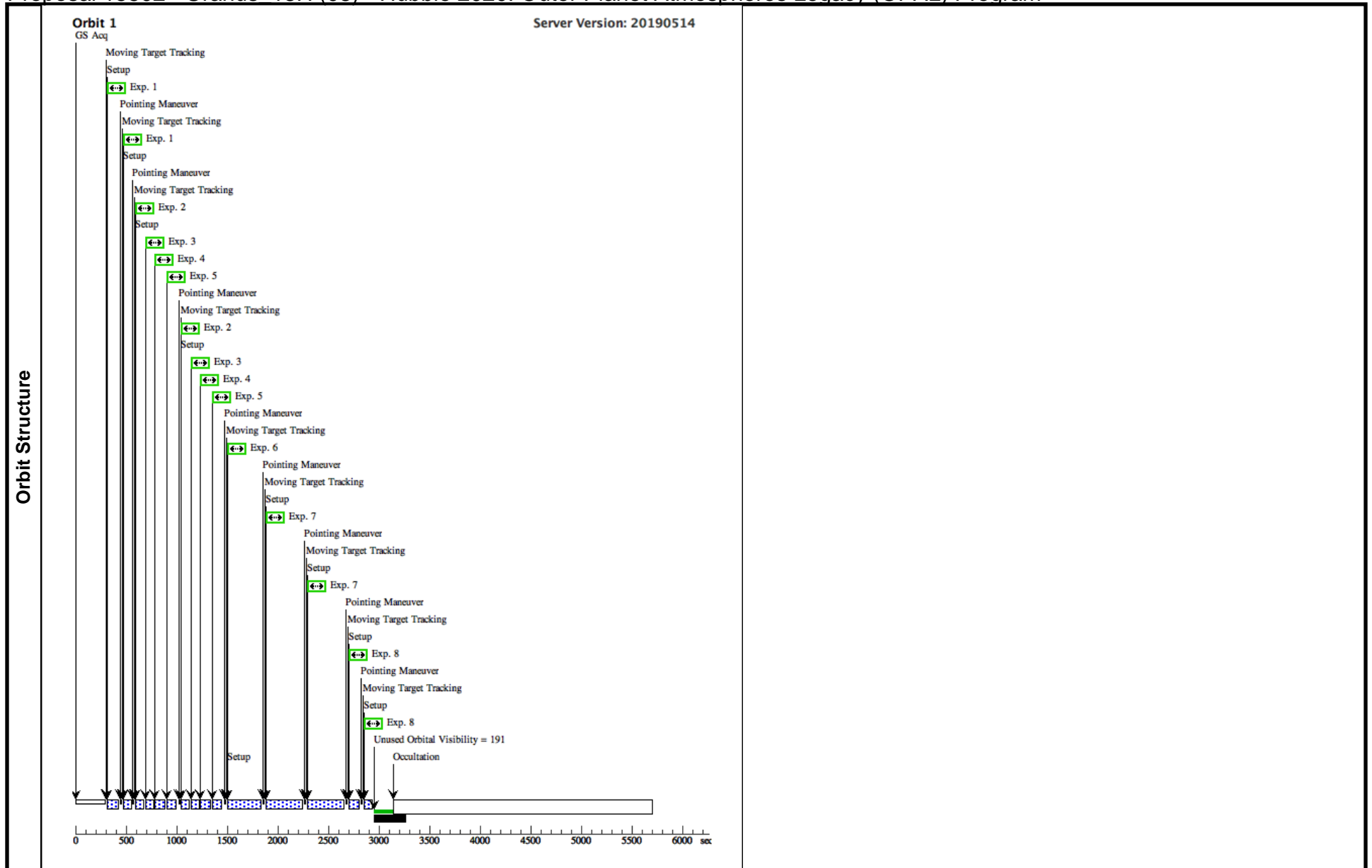
Proposal 15502 - Uranus 18H (08) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:22 GMT 2019

<b>Visit</b>	<p><b>Proposal 15502, Uranus_18H (08), completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: AFTER 01 BY 18.8 Orbits TO 19.1 Orbits</p> <p><i>Comments: Opposition +/- 35 days preferred</i></p>						
	<b>Diagnostics</b>	<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 &amp; 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 &amp; 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>					
<b>Patterns</b>		#	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>		
	(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)			
<b>Solar System Targets</b>	#	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>
	(3)	URANUS-MAPS	STD=URANUS				EARTH
<p><i>Comments: Description=Global Uranus maps</i></p>							

Proposal 15502 - Uranus 18H (08) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

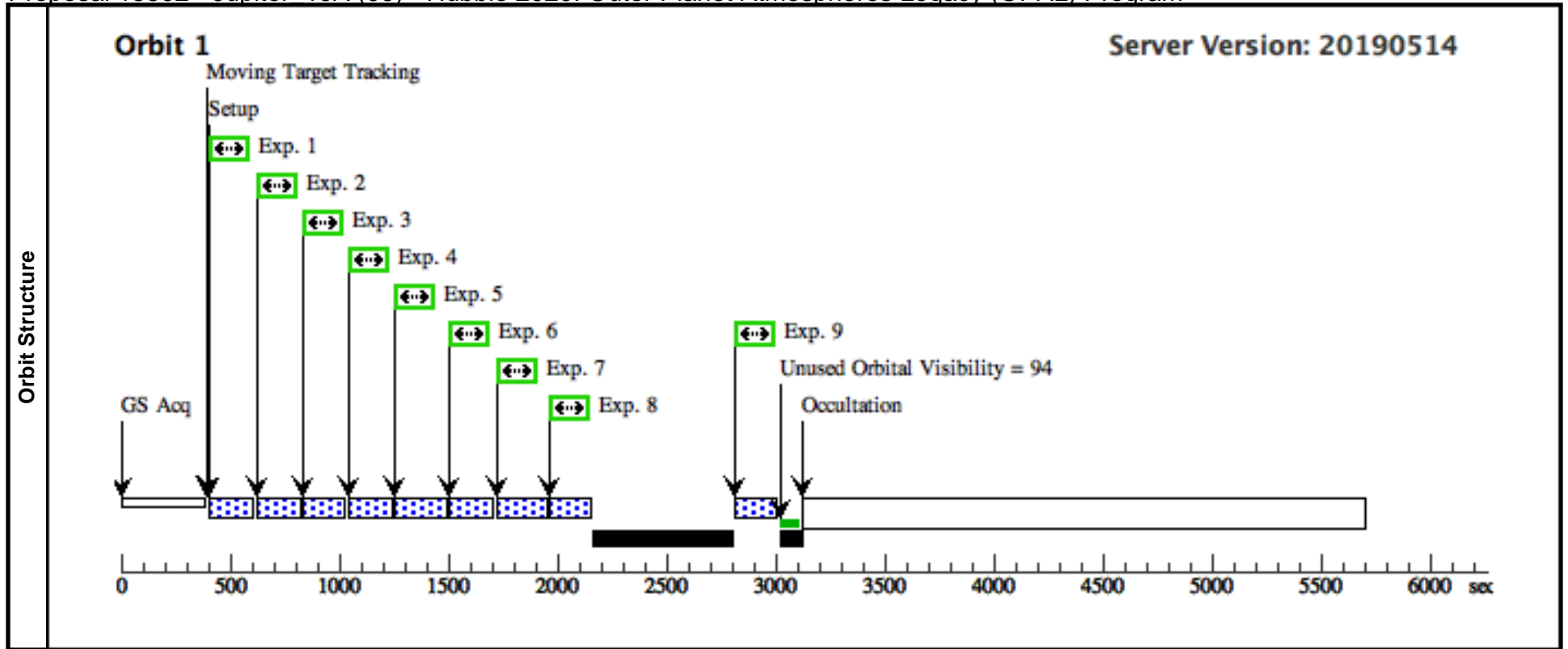
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(3) URANUS-MAPS	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_18H (08) Pattern 3, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_18H (08) (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_18H (08) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18H (08) (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_18H (08) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18H (08) (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_18H (08) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18H (08) (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_18H (08) Pattern 3, Exps 2-5 in Sequence 1-8 Non-Int in Uranus_18H (08) (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_18H (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_18H (08) Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_18H (08) (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	GS ACQ SCENARIO ONEB1BE	Sequence 1-8 Non-Int in Uranus_18H (08) Pattern 3, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_18H (08) (3)	35 Secs (70 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 15502 - Jupiter 19A (09) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:22 GMT 2019

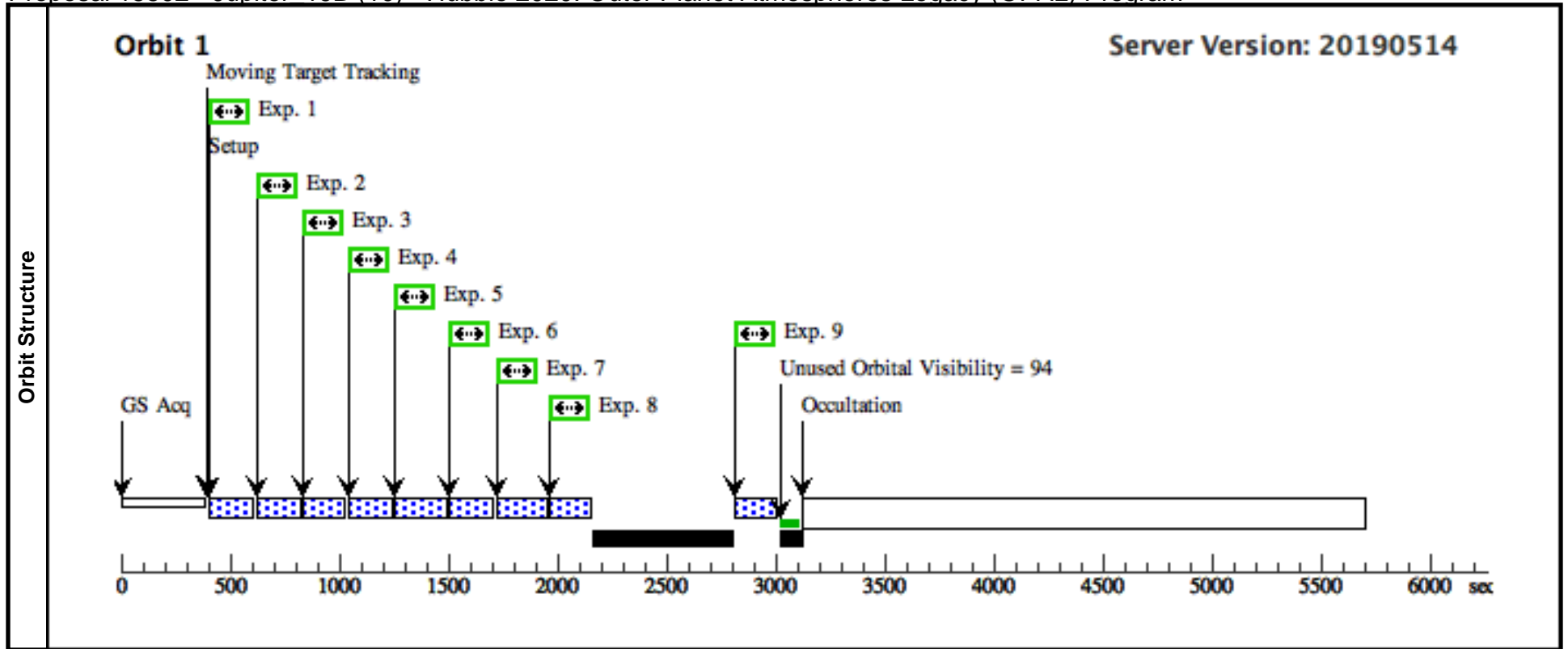
<b>Visit</b>	<p><b>Proposal 15502, Jupiter_19A (09), completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 10-MAY-2019 AND 10-JUL-2019; VISIBILITY INTERVAL 52 M</p> <p><i>Comments: 13 orbits, should be contiguous, if possible. 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.</i></p> <p><i>Opposition +/- 30 days preferred</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>									
<b>Diagnostics</b>										
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>			
	(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: Description=Global Jupiter maps</i>										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_19A (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_19A (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_19A (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_19A (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_19A (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_19A (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_19A (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_19A (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_19A (09)	4 Secs (4 Secs) [==>]	[1]



Proposal 15502 - Jupiter 19B (10) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:22 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Jupiter_19B (10), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 09 BY 0.9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL 52 M									
	<b>Diagnosics</b> (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									
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>			
	(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: Description=Global Jupiter maps</i>									
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_19B (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_19B (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_19B (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_19B (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_19B (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_19B (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_19B (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_19B (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_19B (10)	4 Secs (4 Secs) [==>]	[1]



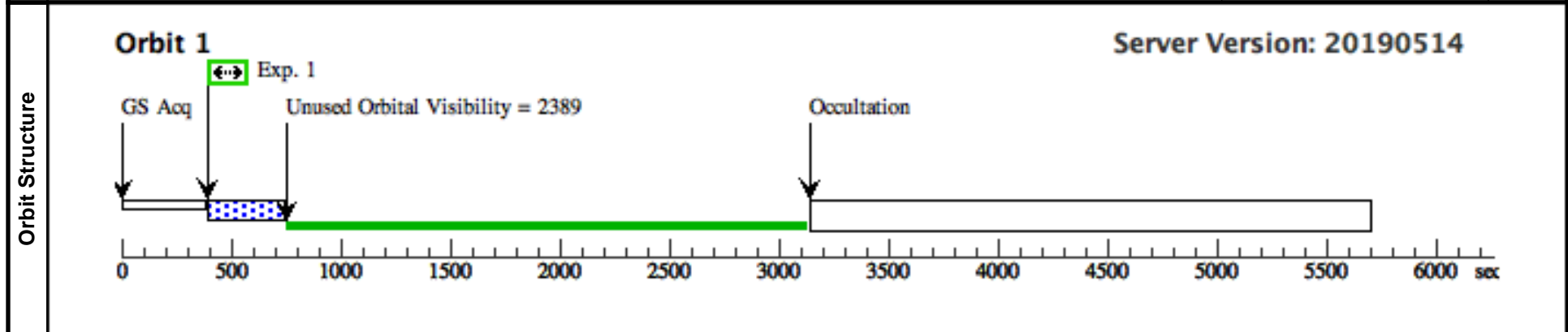
Proposal 15502 - Gyro Bias Update (G1) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:22 GMT 2019

<b>Visit</b>	Proposal 15502, Gyro Bias Update (G1), completed					
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: S/C Special Requirements: NOTRACK; AFTER 10 BY 0.9 Orbits TO 1.1 Orbits					

<b>Solar System Targets</b>	#	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
<i>Comments: Description=Global Jupiter maps</i>							

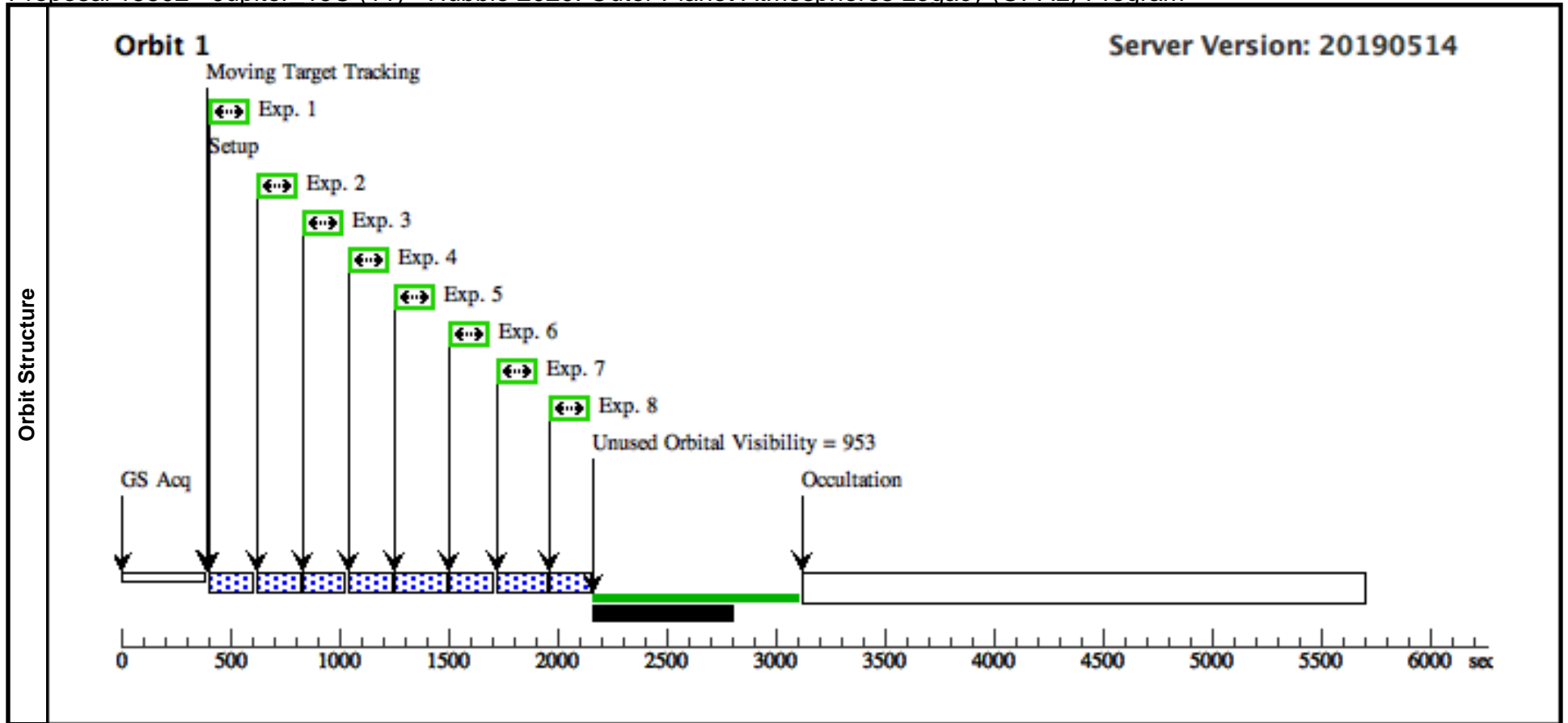
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) JUPITER-MAPS	S/C, POINTING, V1						360.0 Secs (360 Secs)
									[=>]	[1]



Proposal 15502 - Jupiter 19C (11) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:22 GMT 2019

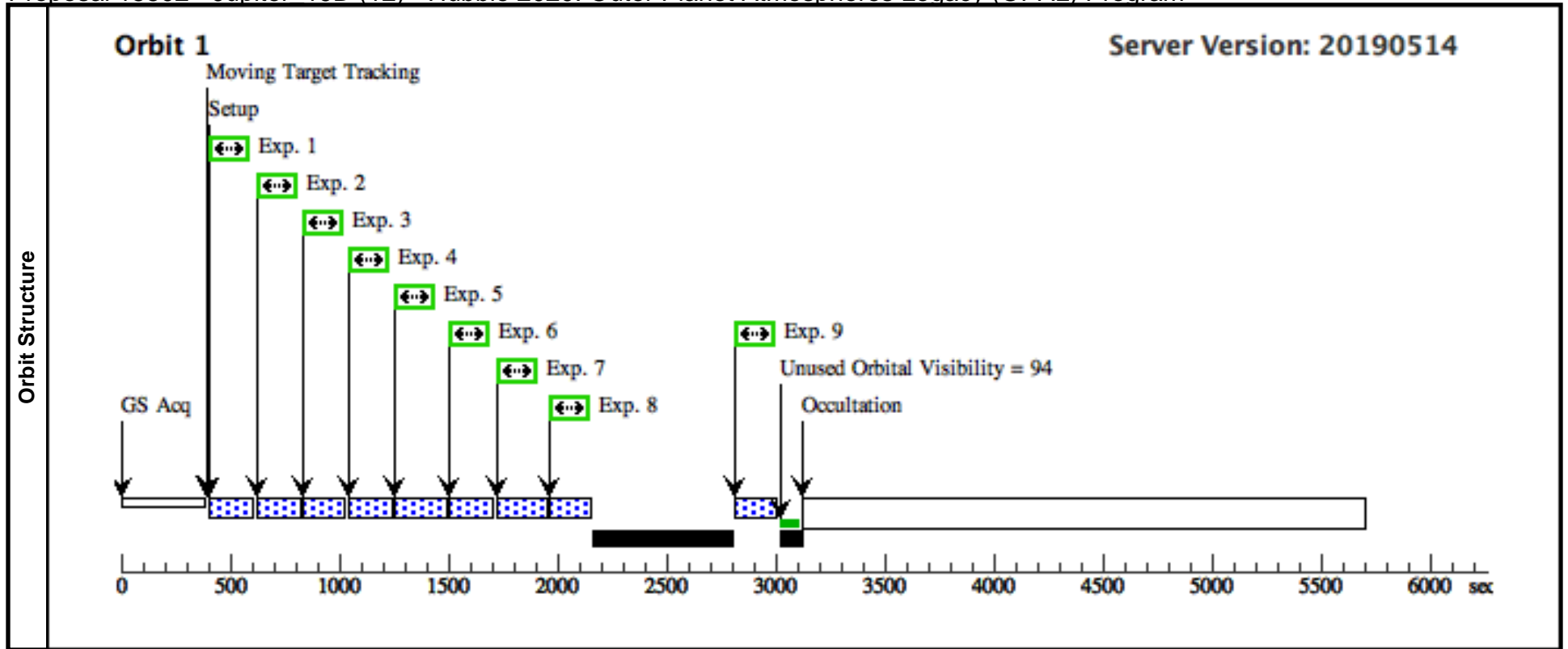
<b>Visit</b>	<b>Proposal 15502, Jupiter_19C (11), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER G1 BY 0 Orbits TO 0.5 Orbits; VISIBILITY INTERVAL 52 M																																																																																																
	<b>Diagnosics</b> (F631N (11.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N (11.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N (11.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (11.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (11.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (11.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (11.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (11.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser																																																																																																
<b>Solar System Targets</b>	<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>(1)</td> <td>JUPITER-MAPS</td> <td>STD=JUPITER</td> <td></td> <td></td> <td>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</td> <td>EARTH</td> </tr> </tbody> </table>	#	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: Description=Global Jupiter maps</i>																																																																																	
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(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																																																																																											
<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F631N</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F631N</td> <td>CR-SPLIT=NO; BLADE=A</td> <td></td> <td>Sequence 1-8 Non-Int in Jupiter_19C (11)</td> <td>4 Secs (4 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>F502N</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F502N</td> <td>CR-SPLIT=NO; BLADE=A</td> <td></td> <td>Sequence 1-8 Non-Int in Jupiter_19C (11)</td> <td>3 Secs (3 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>F395N</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F395N</td> <td>CR-SPLIT=NO</td> <td></td> <td>Sequence 1-8 Non-Int in Jupiter_19C (11)</td> <td>10 Secs (10 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>F467M</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F467M</td> <td>CR-SPLIT=NO; BLADE=A</td> <td></td> <td>Sequence 1-8 Non-Int in Jupiter_19C (11)</td> <td>1.2 Secs (1.2 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td>FQ889_quadA</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS-QUAD-SUB</td> <td>FQ889N</td> <td>CR-SPLIT=NO</td> <td></td> <td>Sequence 1-8 Non-Int in Jupiter_19C (11)</td> <td>53 Secs (53 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>6</td> <td>F658N</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F658N</td> <td>CR-SPLIT=NO; BLADE=A</td> <td></td> <td>Sequence 1-8 Non-Int in Jupiter_19C (11)</td> <td>8 Secs (8 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>7</td> <td>F275W</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F275W</td> <td>CR-SPLIT=NO</td> <td></td> <td>Sequence 1-8 Non-Int in Jupiter_19C (11)</td> <td>30 Secs (30 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>8</td> <td>F547M</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F547M</td> <td>CR-SPLIT=NO; BLADE=A</td> <td></td> <td>Sequence 1-8 Non-Int in Jupiter_19C (11)</td> <td>.5 Secs (0.5 Secs) [==&gt;]</td> <td>[1]</td> </tr> </tbody> </table>								#	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_19C (11)	4 Secs (4 Secs) [==>]	[1]	2	F502N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_19C (11)	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_19C (11)	10 Secs (10 Secs) [==>]	[1]	4	F467M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_19C (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 1-8 Non-Int in Jupiter_19C (11)	53 Secs (53 Secs) [==>]	[1]	6	F658N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F658N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_19C (11)	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_19C (11)	30 Secs (30 Secs) [==>]	[1]	8	F547M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_19C (11)	.5 Secs (0.5 Secs) [==>]	[1]
#	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_19C (11)	4 Secs (4 Secs) [==>]	[1]																																																																																								
2	F502N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_19C (11)	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_19C (11)	10 Secs (10 Secs) [==>]	[1]																																																																																								
4	F467M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_19C (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 1-8 Non-Int in Jupiter_19C (11)	53 Secs (53 Secs) [==>]	[1]																																																																																								
6	F658N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F658N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_19C (11)	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_19C (11)	30 Secs (30 Secs) [==>]	[1]																																																																																								
8	F547M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_19C (11)	.5 Secs (0.5 Secs) [==>]	[1]																																																																																								



Proposal 15502 - Jupiter 19D (12) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:22 GMT 2019

Visit	<b>Proposal 15502, Jupiter_19D (12), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 11 BY 0.7 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL 52 M										
	Diagnostics	(F631N (12.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N (12.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N (12.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (12.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (12.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (12.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (12.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (12.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (12.009)) 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: Description=Global Jupiter maps</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_19D (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_19D (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_19D (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_19D (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_19D (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_19D (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_19D (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_19D (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_19D (12)	4 Secs (4 Secs) [==>]	[1]	



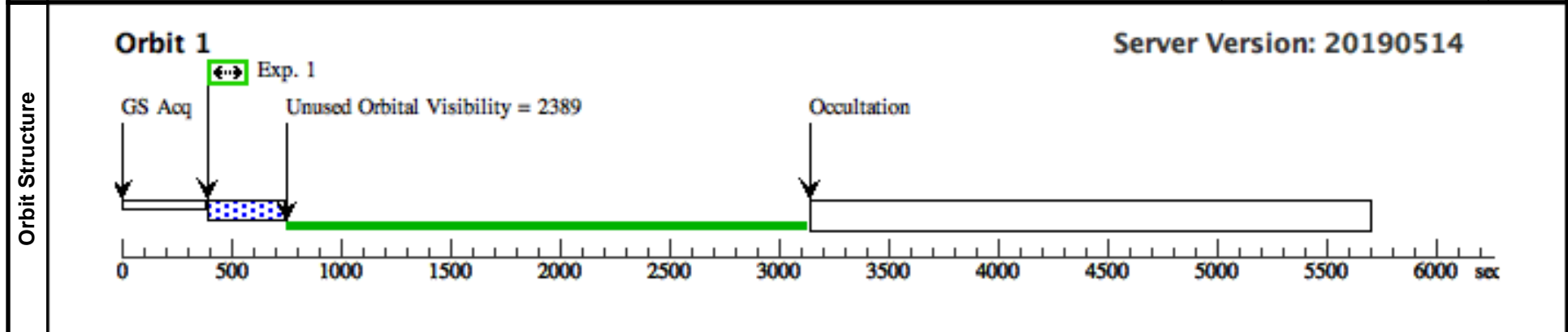
Proposal 15502 - Gyro Bias Update (G2) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:22 GMT 2019

<b>Visit</b>	Proposal 15502, Gyro Bias Update (G2), completed					
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: S/C					
Special Requirements: NOTRACK; AFTER 12 BY 0.9 Orbits TO 1.1 Orbits						

<b>Solar System Targets</b>	#	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
<i>Comments: Description=Global Jupiter maps</i>							

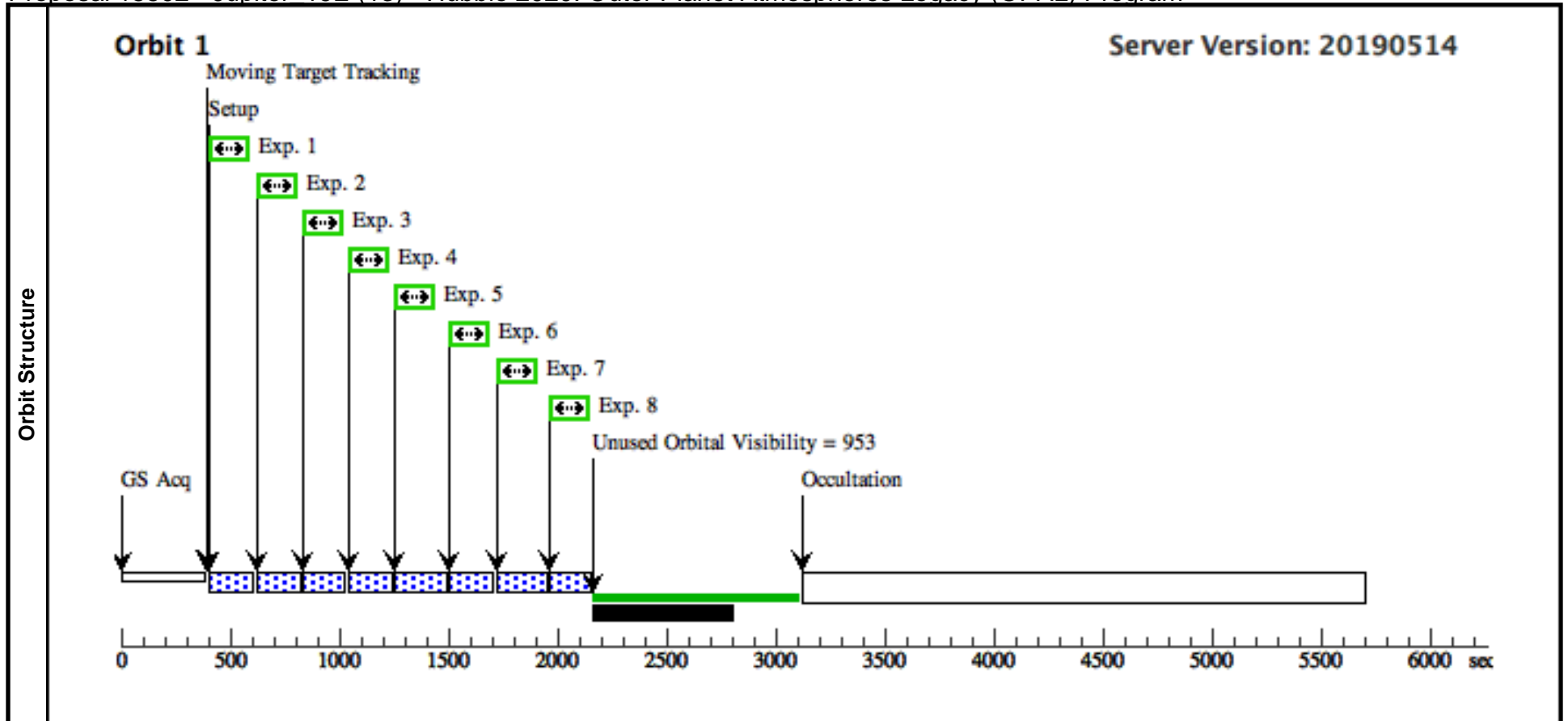
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) JUPITER-MAPS	S/C, POINTING, V1						360.0 Secs (360 Secs)
									[=>]	[1]



Proposal 15502 - Jupiter 19E (13) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:22 GMT 2019

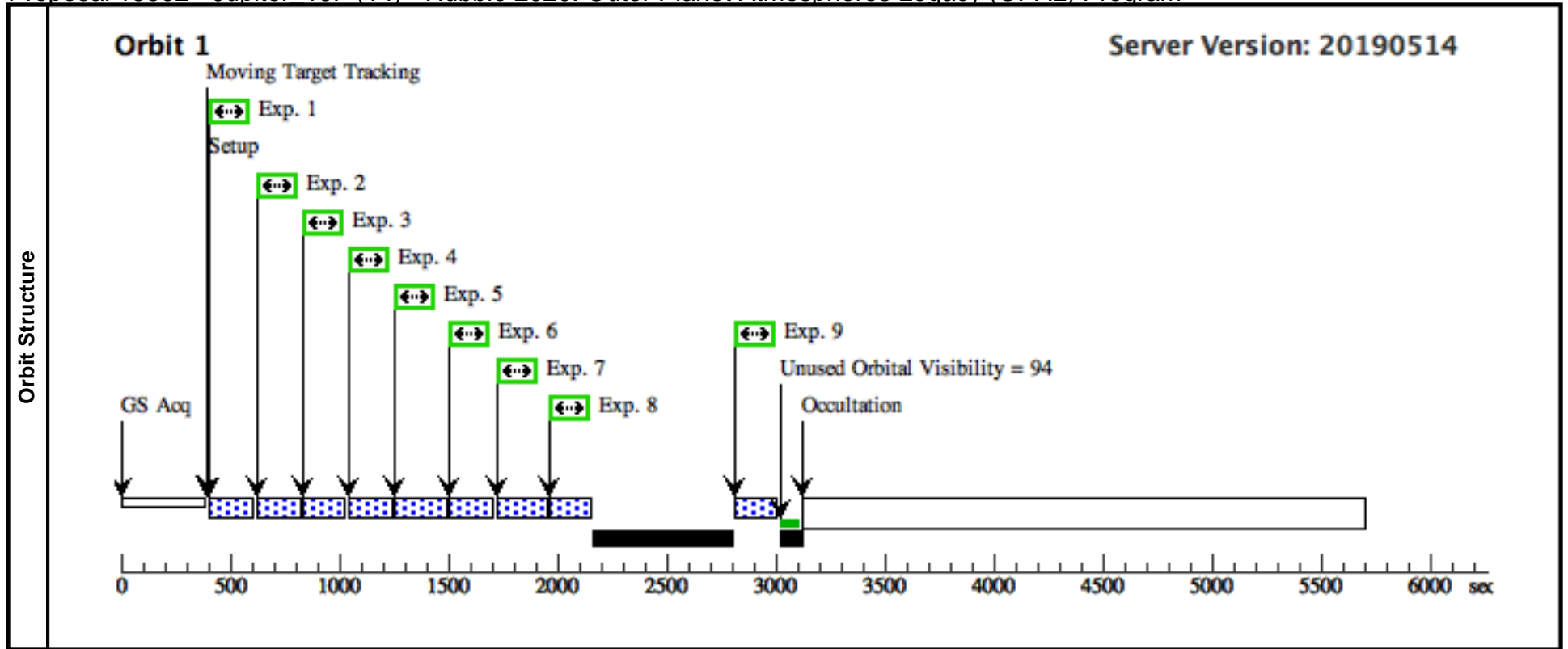
<b>Visit</b>	<b>Proposal 15502, Jupiter_19E (13), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER G2 BY 0 Orbits TO 0.5 Orbits; VISIBILITY INTERVAL 52 M									
	<b>Diagnosics</b> (F631N (13.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N (13.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N (13.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (13.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (13.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (13.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (13.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (13.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>			
	(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: Description=Global Jupiter maps</i>									
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_19E (13)	4 Secs (4 Secs) [==>]	[1]
	2	F502N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_19E (13)	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_19E (13)	10 Secs (10 Secs) [==>]	[1]
	4	F467M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_19E (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 1-8 Non-Int in Jupiter_19E (13)	53 Secs (53 Secs) [==>]	[1]
	6	F658N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F658N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_19E (13)	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_19E (13)	30 Secs (30 Secs) [==>]	[1]
	8	F547M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_19E (13)	.5 Secs (0.5 Secs) [==>]	[1]



Proposal 15502 - Jupiter 19F (14) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:22 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Jupiter_19F (14), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 13 BY 0.7 Orbits TO 2.1 Orbits; VISIBILITY INTERVAL 52 M									
	<b>Diagnosics</b> (F631N (14.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N (14.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N (14.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (14.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (14.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (14.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (14.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (14.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (14.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>			
	(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: Description=Global Jupiter maps</i>									
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A	GS ACQ SCENARI O BASE1BE	Sequence 1-9 Non-Int in Jupiter_19F (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_19F (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_19F (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_19F (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_19F (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_19F (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_19F (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_19F (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_19F (14)	4 Secs (4 Secs) [==>]	[1]



Proposal 15502 - Gyro Bias Update (G3) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

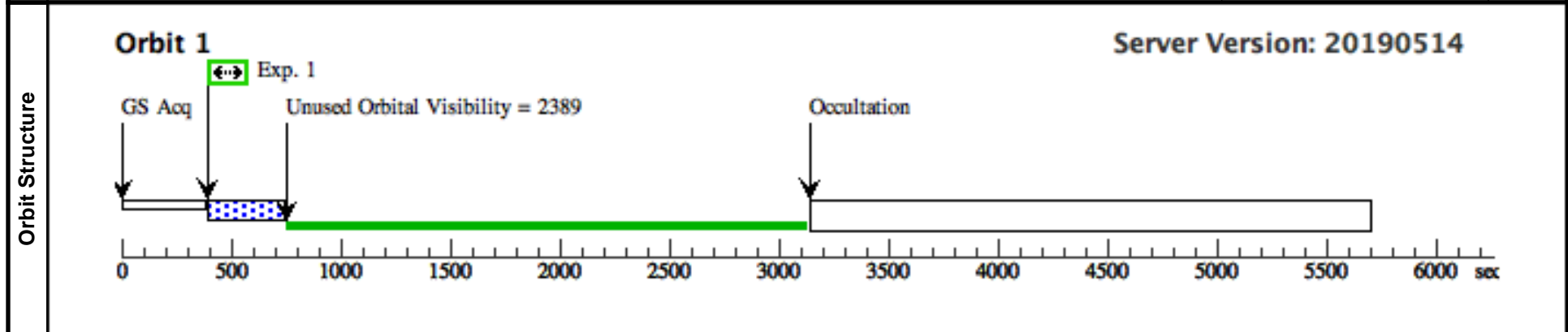
Tue Sep 03 13:01:22 GMT 2019

<b>Visit</b>	Proposal 15502, Gyro Bias Update (G3), completed					
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: S/C					
	Special Requirements: NOTRACK; AFTER 14 BY 0.9 Orbits TO 2.1 Orbits					

<b>Solar System Targets</b>	#	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

*Comments: Description=Global Jupiter maps*

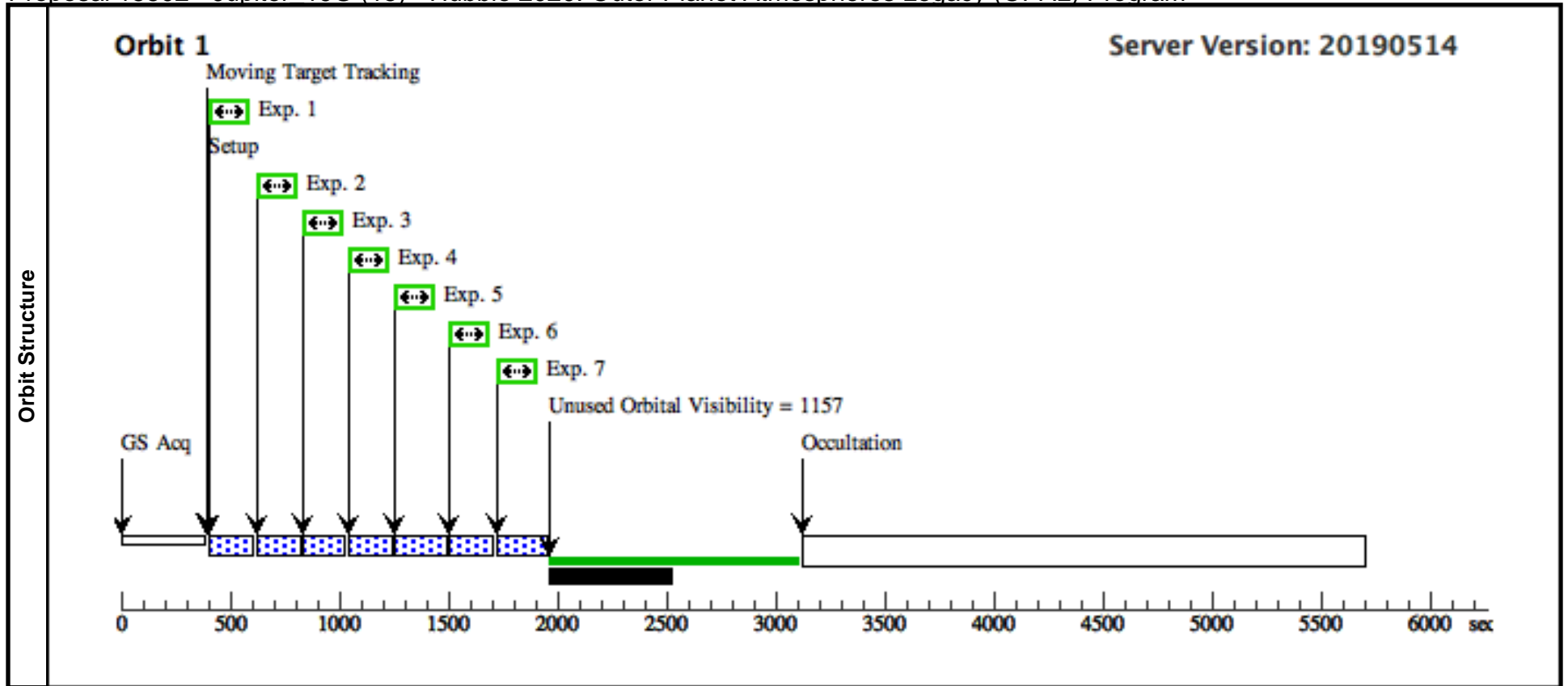
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) JUPITER-MAPS	S/C, POINTING, V1						360.0 Secs (360 Secs)
									[==>]	[1]



Proposal 15502 - Jupiter 19G (15) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:23 GMT 2019

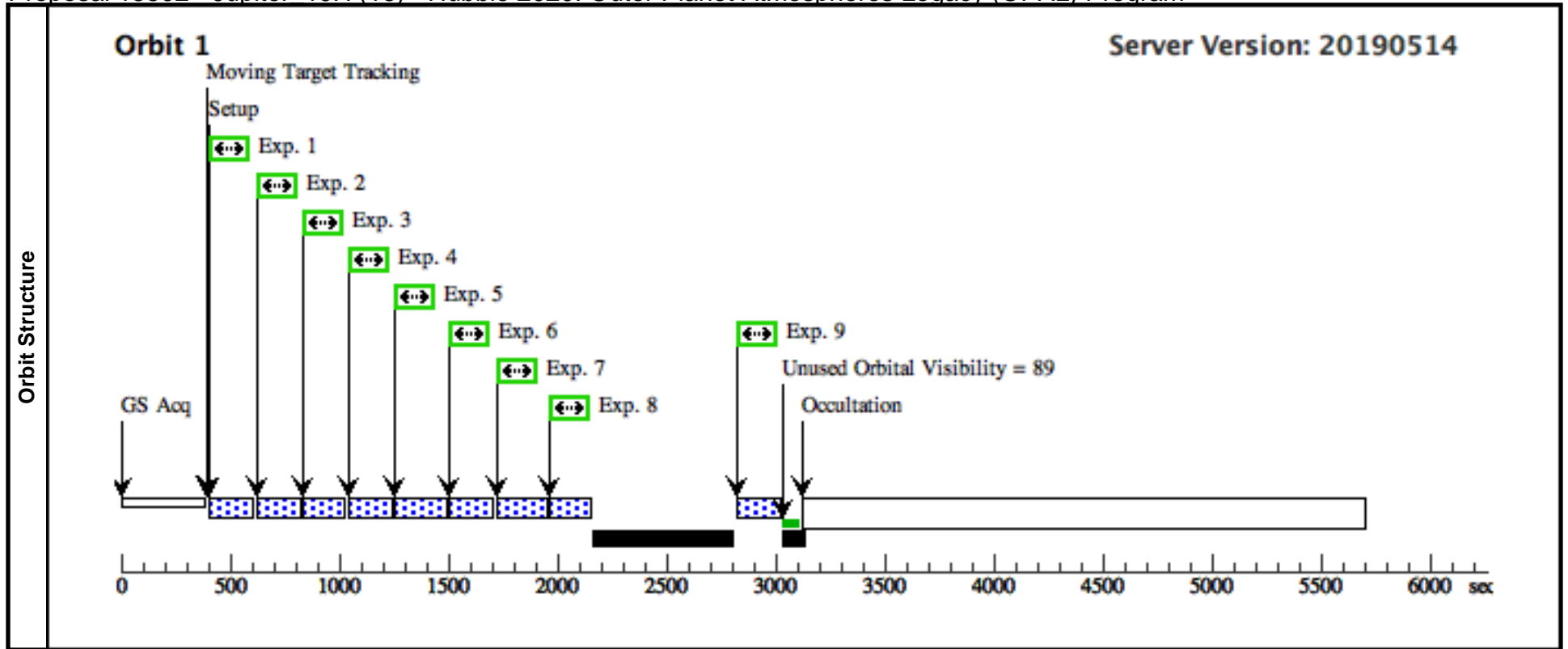
<b>Visit</b>	<b>Proposal 15502, Jupiter_19G (15), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER G3 BY 0 Orbits TO 0.5 Orbits; VISIBILITY INTERVAL 52 M									
	(F631N (15.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N (15.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N (15.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (15.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (15.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (15.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (15.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
<b>Diagnosics</b>										
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>			
	(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: Description=Global Jupiter maps</i>										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-7 Non-Int in Jupiter_19G (15)	4 Secs (4 Secs) [==>]	[1]
	2	F502N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	CR-SPLIT=NO; BLADE=A		Sequence 1-7 Non-Int in Jupiter_19G (15)	3 Secs (3 Secs) [==>]	[1]
	3	F395N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F395N	CR-SPLIT=NO		Sequence 1-7 Non-Int in Jupiter_19G (15)	10 Secs (10 Secs) [==>]	[1]
	4	F467M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-7 Non-Int in Jupiter_19G (15)	1.2 Secs (1.2 Secs) [==>]	[1]
	5	FQ889_quadA	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO		Sequence 1-7 Non-Int in Jupiter_19G (15)	53 Secs (53 Secs) [==>]	[1]
	6	F658N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F658N	CR-SPLIT=NO; BLADE=A		Sequence 1-7 Non-Int in Jupiter_19G (15)	8 Secs (8 Secs) [==>]	[1]
	7	F275W	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W	CR-SPLIT=NO		Sequence 1-7 Non-Int in Jupiter_19G (15)	30 Secs (30 Secs) [==>]	[1]



Proposal 15502 - Jupiter 19H (16) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:23 GMT 2019

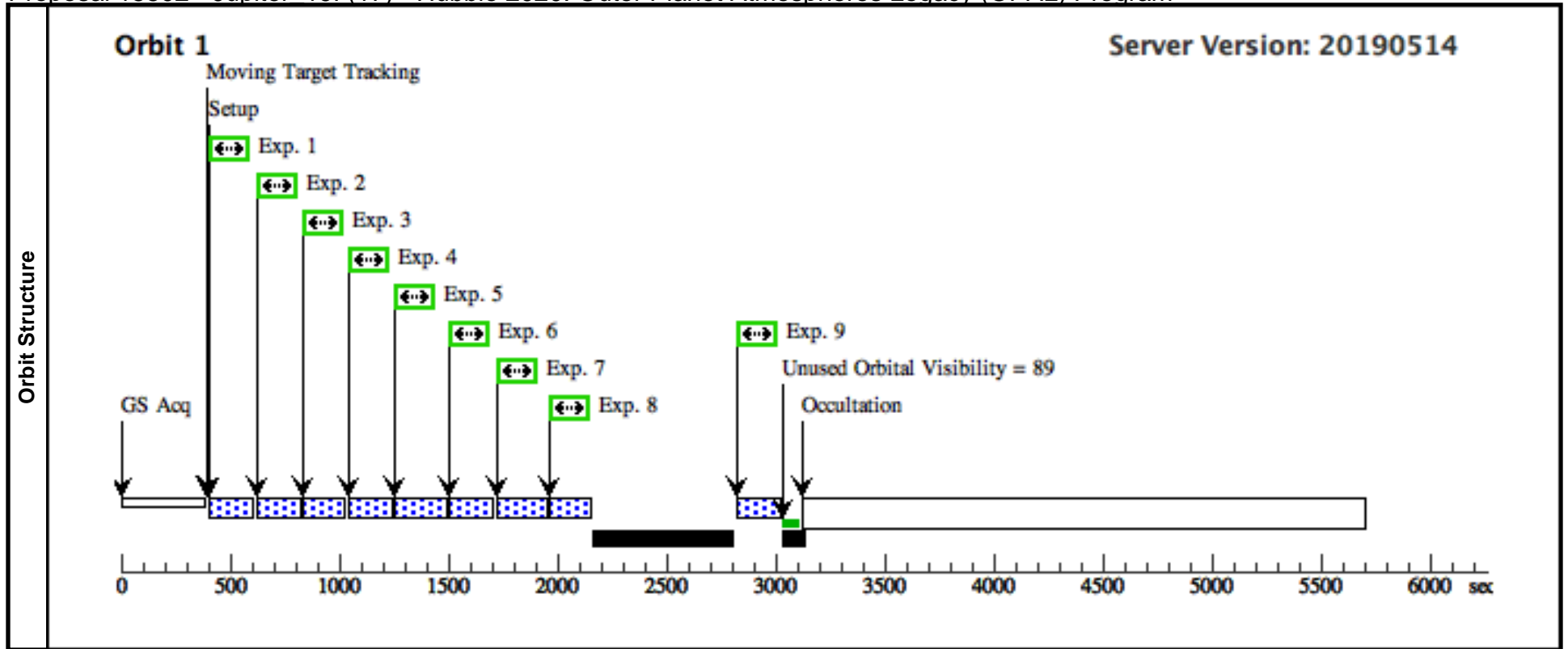
Visit	<b>Proposal 15502, Jupiter_19H (16), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 15 BY 0.7 Orbits TO 2.1 Orbits; VISIBILITY INTERVAL 52 M									
	Diagnostics	(F631N (16.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N (16.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N (16.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (16.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (16.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (16.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (16.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (16.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (16.009)) 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: Description=Global Jupiter maps</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 BASE1BE	Sequence 1-9 Non-Int in Jupiter_19H (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_19H (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_19H (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_19H (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_19H (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_19H (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_19H (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_19H (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_19H (16)	4 Secs (4 Secs) [==>]	[1]



Proposal 15502 - Jupiter 19I (17) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:23 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Jupiter_19I (17), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 16 BY 0.9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL 52 M									
	<b>Diagnosics</b> (F631N (17.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N (17.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N (17.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (17.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (17.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (17.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (17.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (17.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (17.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>			
	(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: Description=Global Jupiter maps</i>									
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_19I (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_19I (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_19I (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_19I (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_19I (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_19I (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_19I (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_19I (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_19I (17)	4 Secs (4 Secs) [==>]	[1]



Proposal 15502 - Gyro Bias Update (G4) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

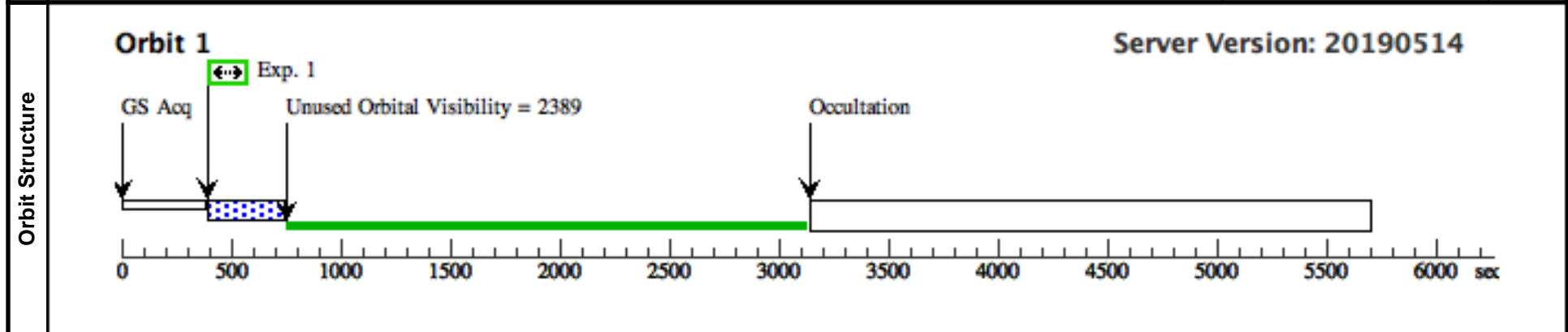
Tue Sep 03 13:01:23 GMT 2019

<b>Visit</b>	Proposal 15502, Gyro Bias Update (G4), completed					
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: S/C Special Requirements: NOTRACK; AFTER 17 BY 0.9 Orbits TO 1.1 Orbits					

<b>Solar System Targets</b>	#	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

*Comments: Description=Global Jupiter maps*

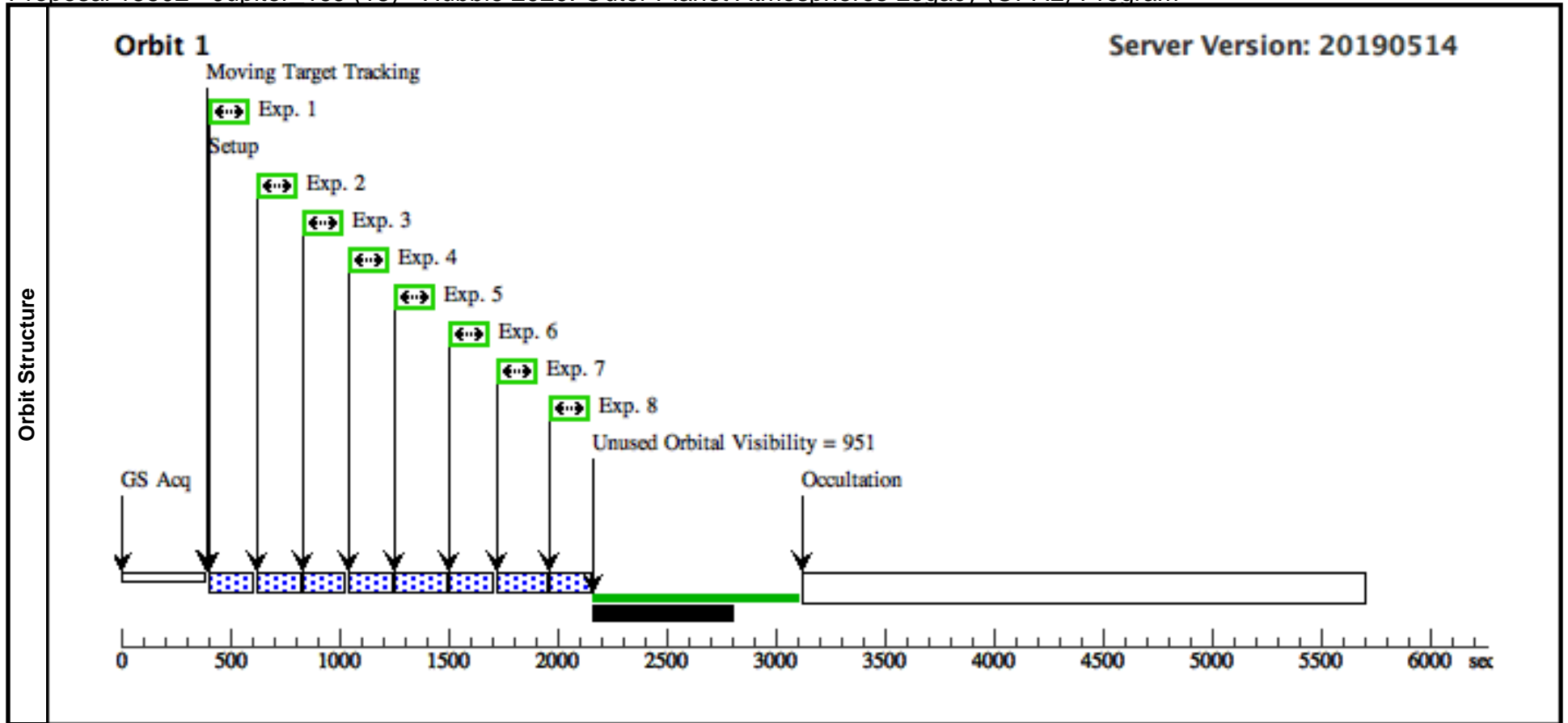
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) JUPITER-MAPS	S/C, POINTING, V1						360.0 Secs (360 Secs)
									[==>]	[1]



Proposal 15502 - Jupiter 19J (18) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:23 GMT 2019

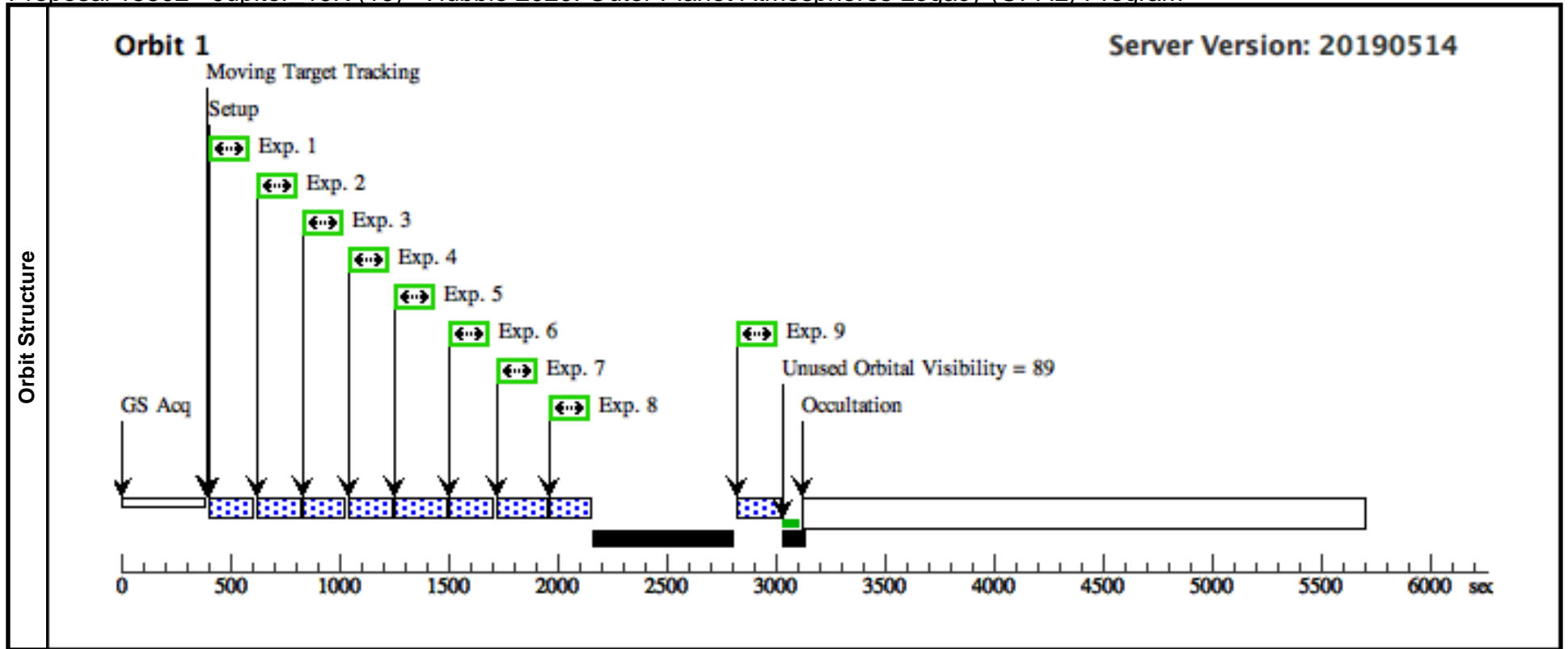
<b>Visit</b>	<b>Proposal 15502, Jupiter_19J (18), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER G4 BY 0 Orbits TO 0.5 Orbits; VISIBILITY INTERVAL 52 M																																																																																																
	<b>Diagnosics</b> (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																																																																																																
<b>Solar System Targets</b>	<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>(1)</td> <td>JUPITER-MAPS</td> <td>STD=JUPITER</td> <td></td> <td></td> <td>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</td> <td>EARTH</td> </tr> </tbody> </table> <p><i>Comments: Description=Global Jupiter maps</i></p>								#	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																																																																											
	#	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																																																																																											
<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F631N</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F631N</td> <td>CR-SPLIT=NO; BLADE=A</td> <td></td> <td>Sequence 1-8 Non-Int in Jupiter_19J (18)</td> <td>4 Secs (4 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>F502N</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F502N</td> <td>CR-SPLIT=NO; BLADE=A</td> <td></td> <td>Sequence 1-8 Non-Int in Jupiter_19J (18)</td> <td>3 Secs (3 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>F395N</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F395N</td> <td>CR-SPLIT=NO</td> <td></td> <td>Sequence 1-8 Non-Int in Jupiter_19J (18)</td> <td>10 Secs (10 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>F467M</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F467M</td> <td>CR-SPLIT=NO; BLADE=A</td> <td></td> <td>Sequence 1-8 Non-Int in Jupiter_19J (18)</td> <td>1.2 Secs (1.2 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td>FQ889_quadA</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS-QUAD-SUB</td> <td>FQ889N</td> <td>CR-SPLIT=NO</td> <td></td> <td>Sequence 1-8 Non-Int in Jupiter_19J (18)</td> <td>53 Secs (53 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>6</td> <td>F658N</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F658N</td> <td>CR-SPLIT=NO; BLADE=A</td> <td></td> <td>Sequence 1-8 Non-Int in Jupiter_19J (18)</td> <td>8 Secs (8 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>7</td> <td>F275W</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F275W</td> <td>CR-SPLIT=NO</td> <td></td> <td>Sequence 1-8 Non-Int in Jupiter_19J (18)</td> <td>30 Secs (30 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>8</td> <td>F343N</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F343N</td> <td>CR-SPLIT=NO; BLADE=A</td> <td></td> <td>Sequence 1-8 Non-Int in Jupiter_19J (18)</td> <td>6 Secs (6 Secs) [==&gt;]</td> <td>[1]</td> </tr> </tbody> </table>								#	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_19J (18)	4 Secs (4 Secs) [==>]	[1]	2	F502N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_19J (18)	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_19J (18)	10 Secs (10 Secs) [==>]	[1]	4	F467M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_19J (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 1-8 Non-Int in Jupiter_19J (18)	53 Secs (53 Secs) [==>]	[1]	6	F658N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F658N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_19J (18)	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_19J (18)	30 Secs (30 Secs) [==>]	[1]	8	F343N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F343N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_19J (18)	6 Secs (6 Secs) [==>]	[1]
#	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_19J (18)	4 Secs (4 Secs) [==>]	[1]																																																																																								
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4	F467M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_19J (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 1-8 Non-Int in Jupiter_19J (18)	53 Secs (53 Secs) [==>]	[1]																																																																																								
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7	F275W	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W	CR-SPLIT=NO		Sequence 1-8 Non-Int in Jupiter_19J (18)	30 Secs (30 Secs) [==>]	[1]																																																																																								
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Proposal 15502 - Jupiter 19K (19) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:23 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Jupiter_19K (19), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 18 BY 0.7 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL 52 M									
	<b>Diagnosics</b> (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 (F631N (19.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>			
	(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: Description=Global Jupiter maps</i>									
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_19K (19)	4 Secs (4 Secs) [==>]	[1]
	2	F502N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_19K (19)	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_19K (19)	10 Secs (10 Secs) [==>]	[1]
	4	F467M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_19K (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 1-9 Non-Int in Jupiter_19K (19)	53 Secs (53 Secs) [==>]	[1]
	6	F658N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F658N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_19K (19)	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_19K (19)	30 Secs (30 Secs) [==>]	[1]
	8	F343N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F343N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_19K (19)	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_19K (19)	4 Secs (4 Secs) [==>]	[1]



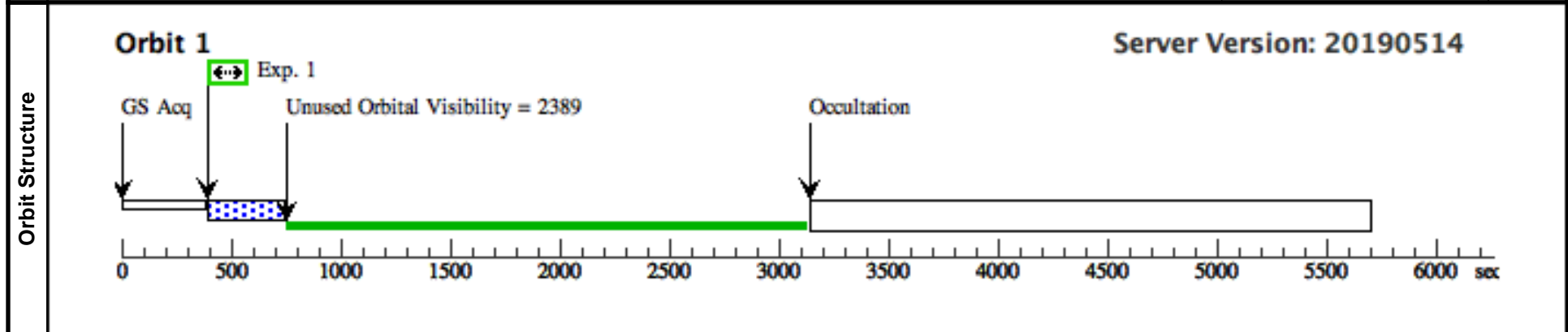
Proposal 15502 - Gyro Bias Update (G5) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:23 GMT 2019

<b>Visit</b>	Proposal 15502, Gyro Bias Update (G5), completed					
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: S/C					
	Special Requirements: NOTRACK; AFTER 19 BY 0.9 Orbits TO 1.1 Orbits					

<b>Solar System Targets</b>	#	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
<i>Comments: Description=Global Jupiter maps</i>							

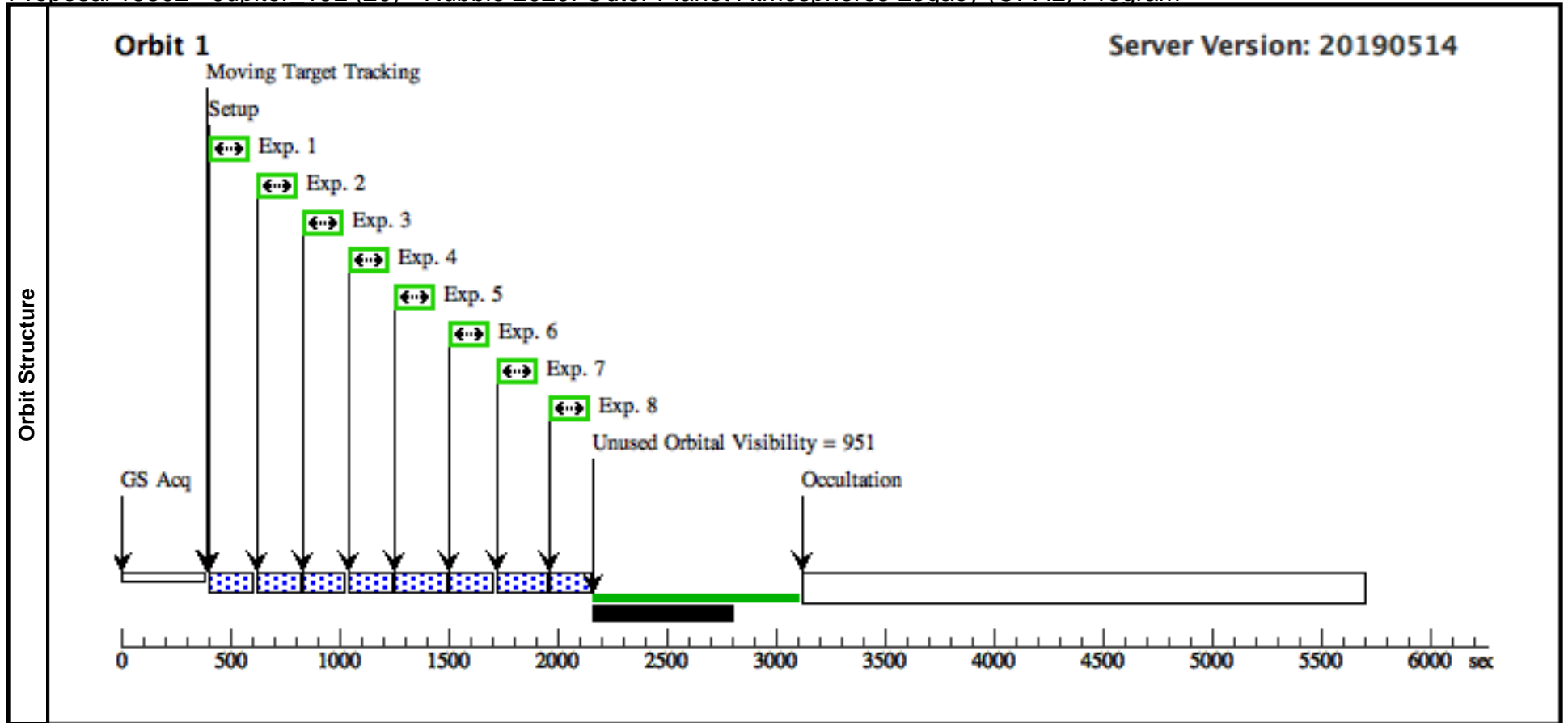
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) JUPITER-MAPS	S/C, POINTING, V1						360.0 Secs (360 Secs)
										[1]



Proposal 15502 - Jupiter 19L (20) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:23 GMT 2019

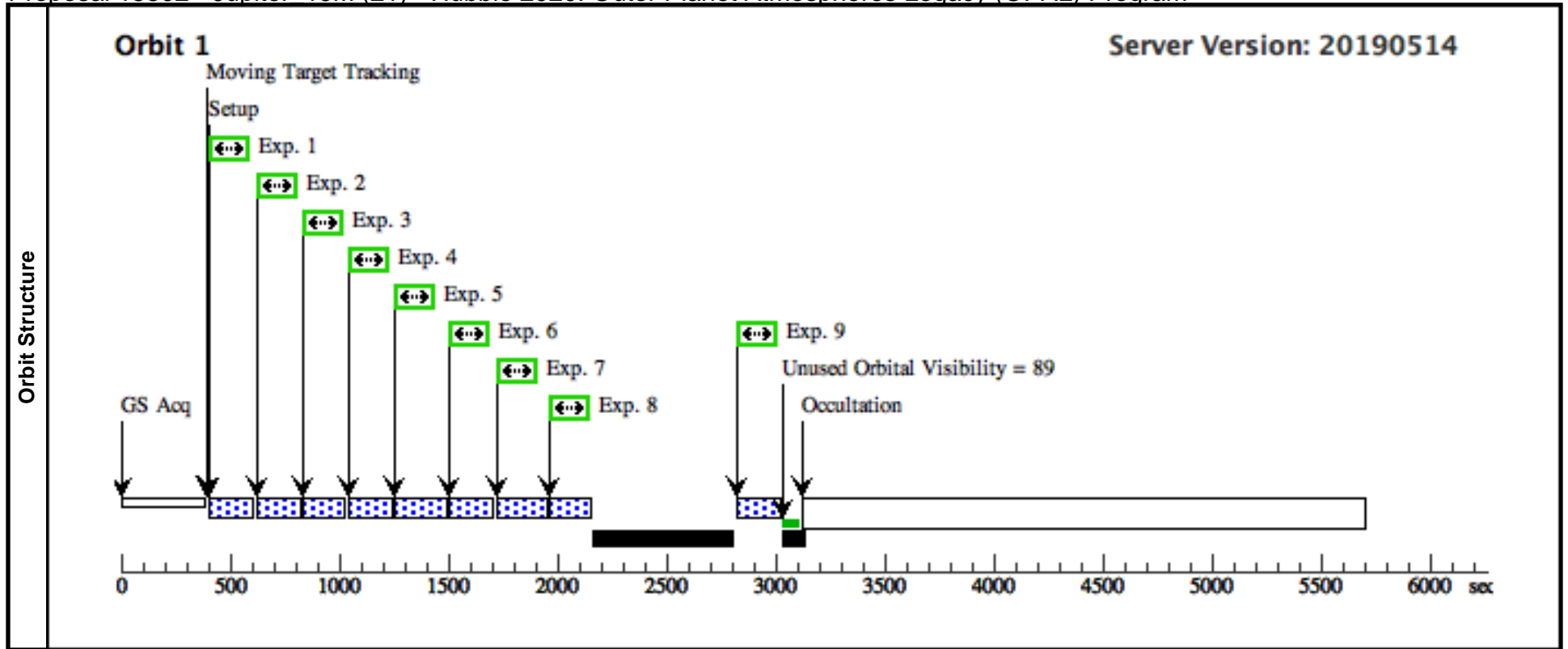
<b>Visit</b>	<b>Proposal 15502, Jupiter_19L (20), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER G5 BY 0 Orbits TO 0.5 Orbits; VISIBILITY INTERVAL 52 M										
	<b>Diagnostics</b>	(F631N (20.001)) Warning (Form): FLASH level may be too 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									
<b>Solar System Targets</b>		<b>#</b>	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>			
		(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: Description=Global Jupiter maps</i>											
<b>Exposures</b>		<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
		1	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Jupiter_19L (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_19L (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_19L (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_19L (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_19L (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_19L (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_19L (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_19L (20)	6 Secs (6 Secs) [==>]	[1]	



Proposal 15502 - Jupiter 19M (21) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:23 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Jupiter_19M (21), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 20 BY 0.7 Orbits TO 3.1 Orbits; VISIBILITY INTERVAL 52 M									
	<b>Diagnosics</b> (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 (F631N (21.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>			
	(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: Description=Global Jupiter maps</i>									
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	F631N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_19M (21)	4 Secs (4 Secs) [==>]	[1]
	2	F502N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_19M (21)	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_19M (21)	10 Secs (10 Secs) [==>]	[1]
	4	F467M	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_19M (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 1-9 Non-Int in Jupiter_19M (21)	53 Secs (53 Secs) [==>]	[1]
	6	F658N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F658N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_19M (21)	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_19M (21)	30 Secs (30 Secs) [==>]	[1]
	8	F343N	(1) JUPITER-MAPS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F343N	CR-SPLIT=NO; BLADE=A		Sequence 1-9 Non-Int in Jupiter_19M (21)	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_19M (21)	4 Secs (4 Secs) [==>]	[1]



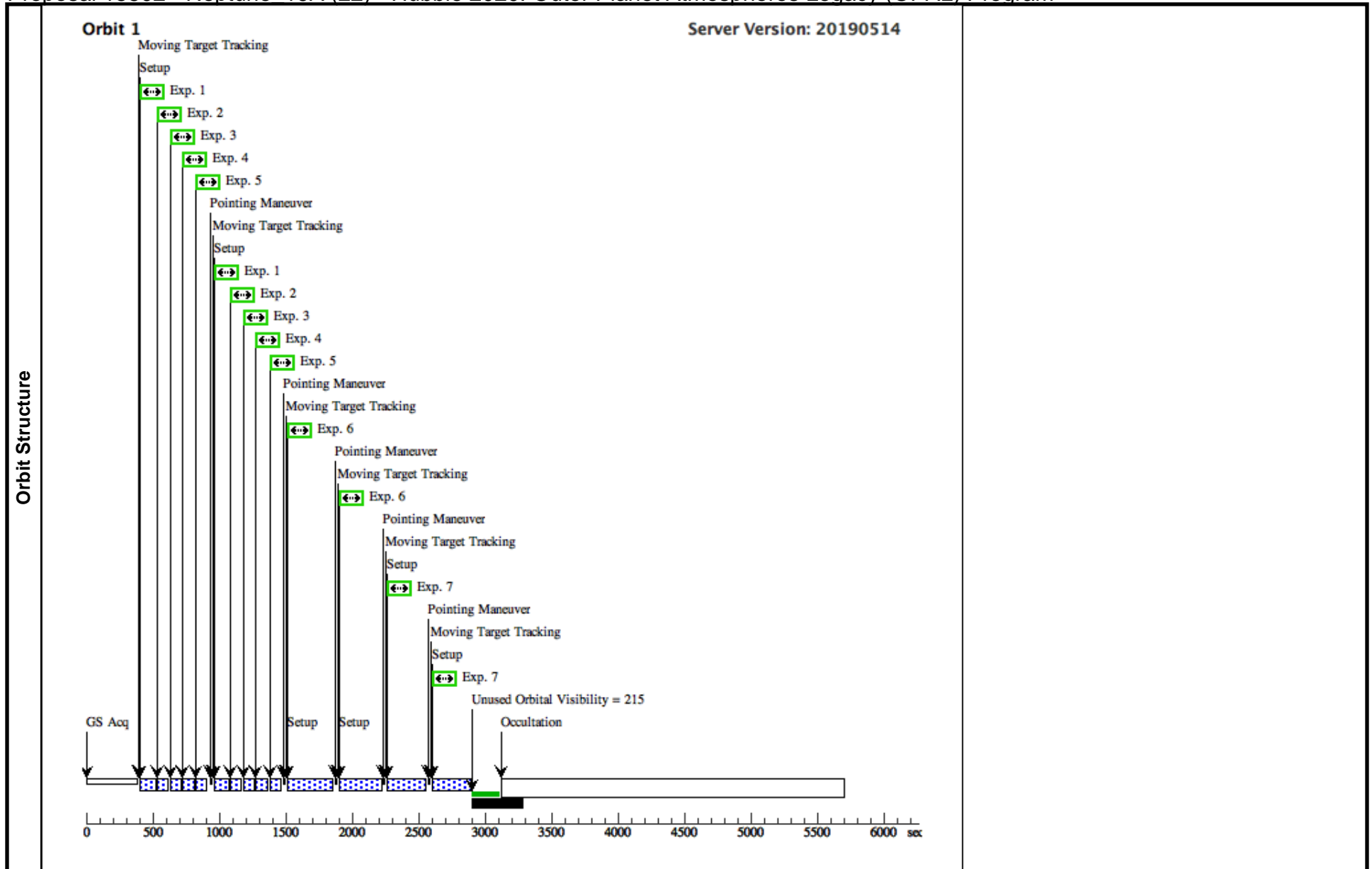
Proposal 15502 - Neptune 19A (22) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:23 GMT 2019

<b>Visit</b>	<p><b>Proposal 15502, Neptune_19A (22), implementation</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 11-AUG-2019:00:00:00 AND 10-OCT-2019:00:00:00; VISIBILITY INTERVAL 52 M</p> <p><i>Comments: Neptune Opposition (2018-SEP-07) +/- 35 days preferred.</i></p> <p><i>8 orbits, with mostly 2-orbit gaps between most visits (5-6x 2-orbit gaps, 1-2x 1-orbit gaps).</i></p> <p><i>If shifting needed (for SAA avoidance or observatory constraints), can reduce a 3rd gap to 1 orbits (no more than 3 1-orbit gaps overall). We can tolerate gyro bias updates to ease the contiguous orbit constraints, and will work with our program contacts to fit them in. 3-gyro mode may be necessary as this is a moving target.</i></p>																			
	<p>(F845M (22.001)) 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 (22.002)) 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 (22.003)) 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 (22.004)) 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 (22.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727N_quadD (22.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727N_quadD (22.006)) Warning (Form): POS TARG &amp; 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>(FQ619N_quadA (22.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ619N_quadA (22.007)) Warning (Form): POS TARG &amp; 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>																			
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Proposal 15502 - Neptune 19A (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 BASE1BE	Sequence 1-7 Non-Int in Neptune_19A (2 2) Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19A ( 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 1-7 Non-Int in Neptune_19A (2 2) Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19A ( 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		Sequence 1-7 Non-Int in Neptune_19A (2 2) Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19A ( 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 1-7 Non-Int in Neptune_19A (2 2) Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19A ( 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 1-7 Non-Int in Neptune_19A (2 2) Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19A ( 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 1-7 Non-Int in Neptune_19A (2 2) Pattern 3, Exps 6-6 i n Sequence 1-7 Non- Int in Neptune_19A ( 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 1-7 Non-Int in Neptune_19A (2 2) Pattern 3, Exps 7-7 i n Sequence 1-7 Non- Int in Neptune_19A ( 22) (3)	120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



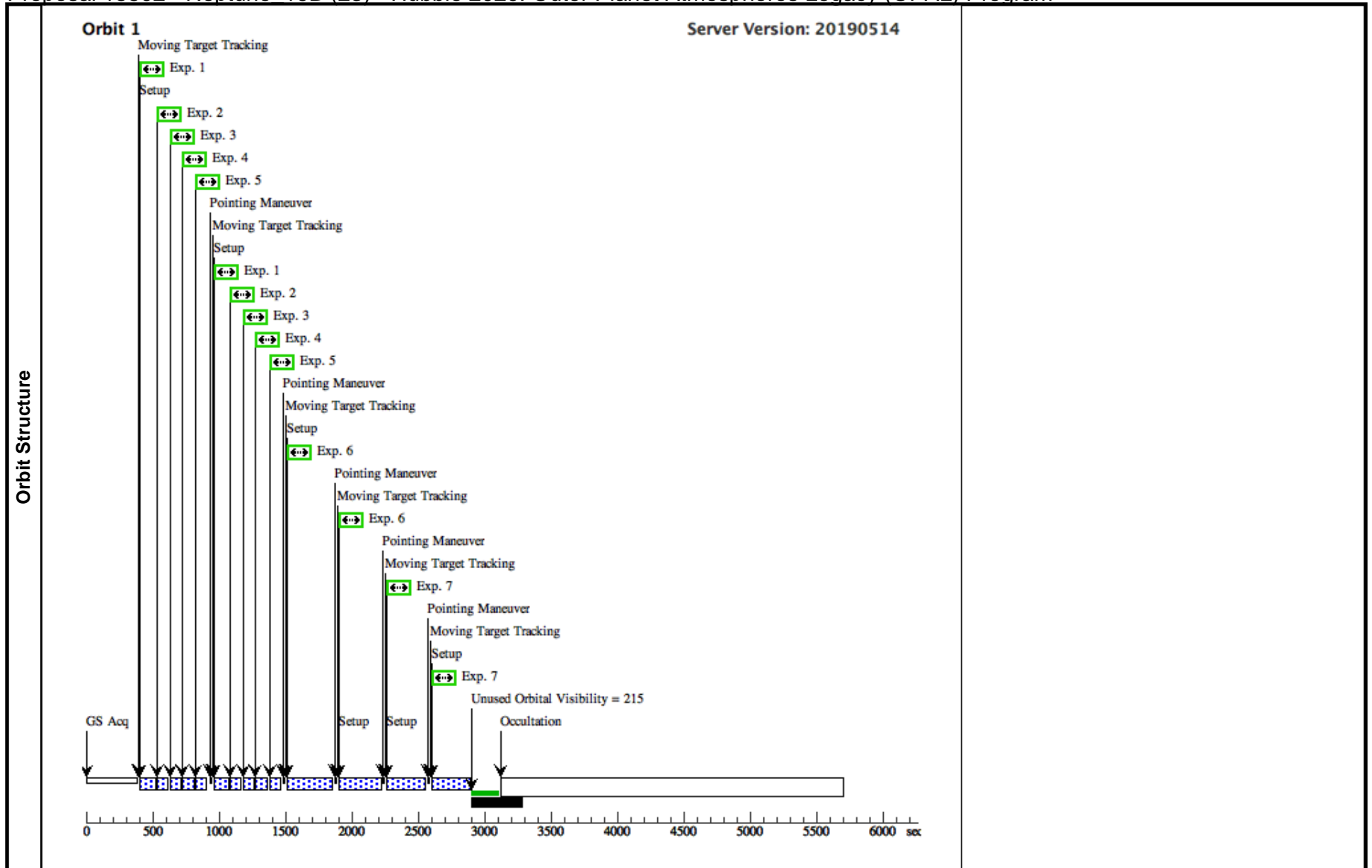
Proposal 15502 - Neptune 19B (23) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:23 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Neptune_19B (23), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 22 BY 1.9 Orbits TO 3.1 Orbits; VISIBILITY INTERVAL 52 M																			
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	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center													
(4)	NEPTUNE-MAPS	STD=NEPTUNE				EARTH														

Proposal 15502 - Neptune 19B (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 BASE1BE	Sequence 1-7 Non-Int in Neptune_19B (2 3) Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19B ( 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 1-7 Non-Int in Neptune_19B (2 3) Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19B ( 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		Sequence 1-7 Non-Int in Neptune_19B (2 3) Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19B ( 23) (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 1-7 Non-Int in Neptune_19B (2 3) Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19B ( 23) (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 1-7 Non-Int in Neptune_19B (2 3) Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19B ( 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 1-7 Non-Int in Neptune_19B (2 3) Pattern 3, Exps 6-6 i n Sequence 1-7 Non- Int in Neptune_19B ( 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 1-7 Non-Int in Neptune_19B (2 3) Pattern 3, Exps 7-7 i n Sequence 1-7 Non- Int in Neptune_19B ( 23) (3)	120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



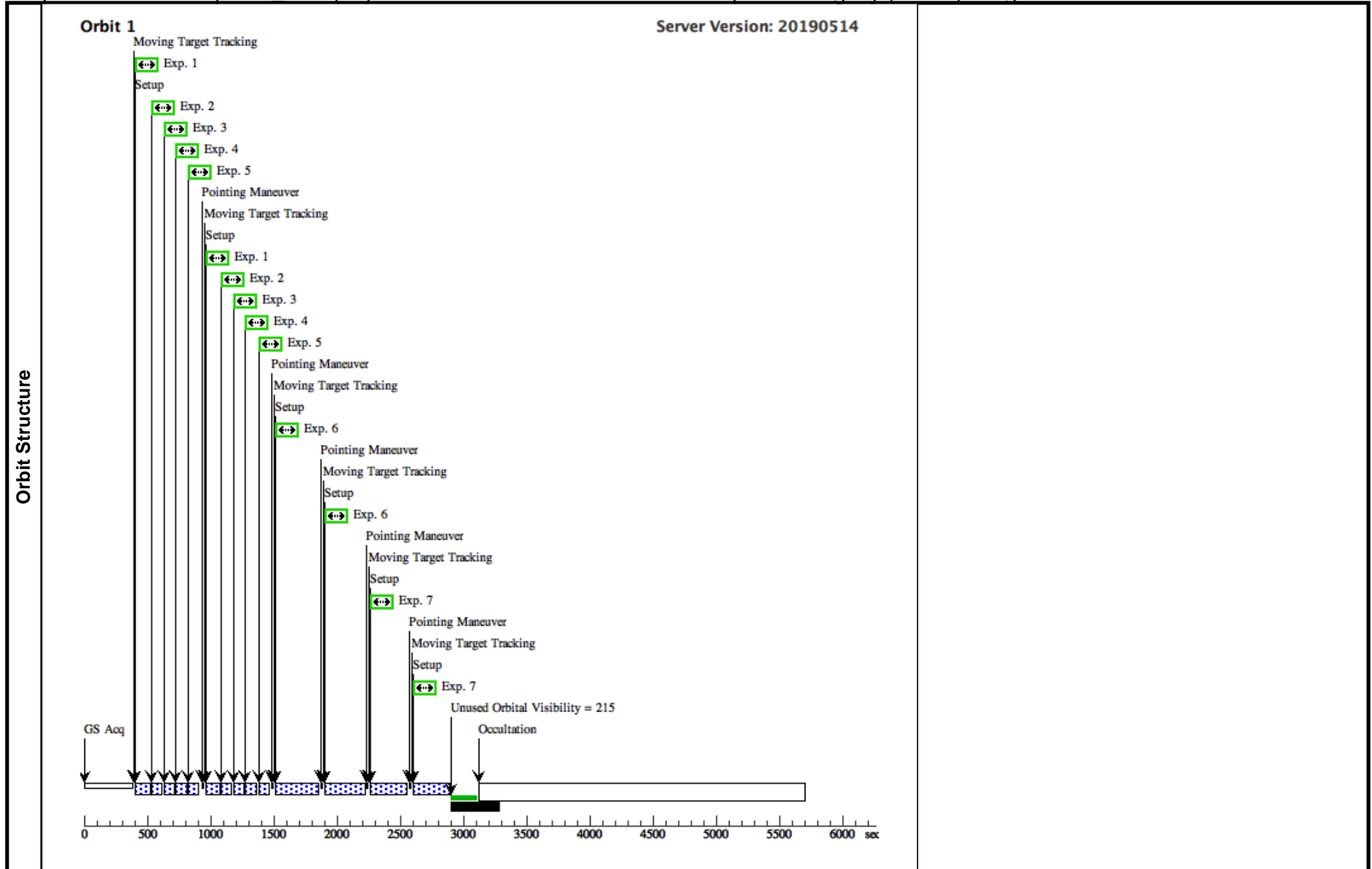
Proposal 15502 - Neptune 19C (24) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:23 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Neptune_19C (24), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 23 BY 1.9 Orbits TO 3.1 Orbits; VISIBILITY INTERVAL 52 M						
<b>Diagnostics</b>	(F845M (24.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (24.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (24.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F657N (24.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (24.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (24.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (24.006)) 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 (24.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (24.007)) 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.						
<b>Patterns</b>	#	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>			
(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)				
<b>Solar System Targets</b>	#	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>
(4)	NEPTUNE-MAPS	STD=NEPTUNE				EARTH	
<i>Comments: Description=Global Neptune Maps</i>							

Proposal 15502 - Neptune 19C (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 BASE1BE	Sequence 1-7 Non-Int in Neptune_19C (2 4)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19C ( 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 1-7 Non-Int in Neptune_19C (2 4)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19C ( 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		Sequence 1-7 Non-Int in Neptune_19C (2 4)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19C ( 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 1-7 Non-Int in Neptune_19C (2 4)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19C ( 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 1-7 Non-Int in Neptune_19C (2 4)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19C ( 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 1-7 Non-Int in Neptune_19C (2 4)  Pattern 3, Exps 6-6 i n Sequence 1-7 Non- Int in Neptune_19C ( 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 1-7 Non-Int in Neptune_19C (2 4)  Pattern 3, Exps 7-7 i n Sequence 1-7 Non- Int in Neptune_19C ( 24) (3)	120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



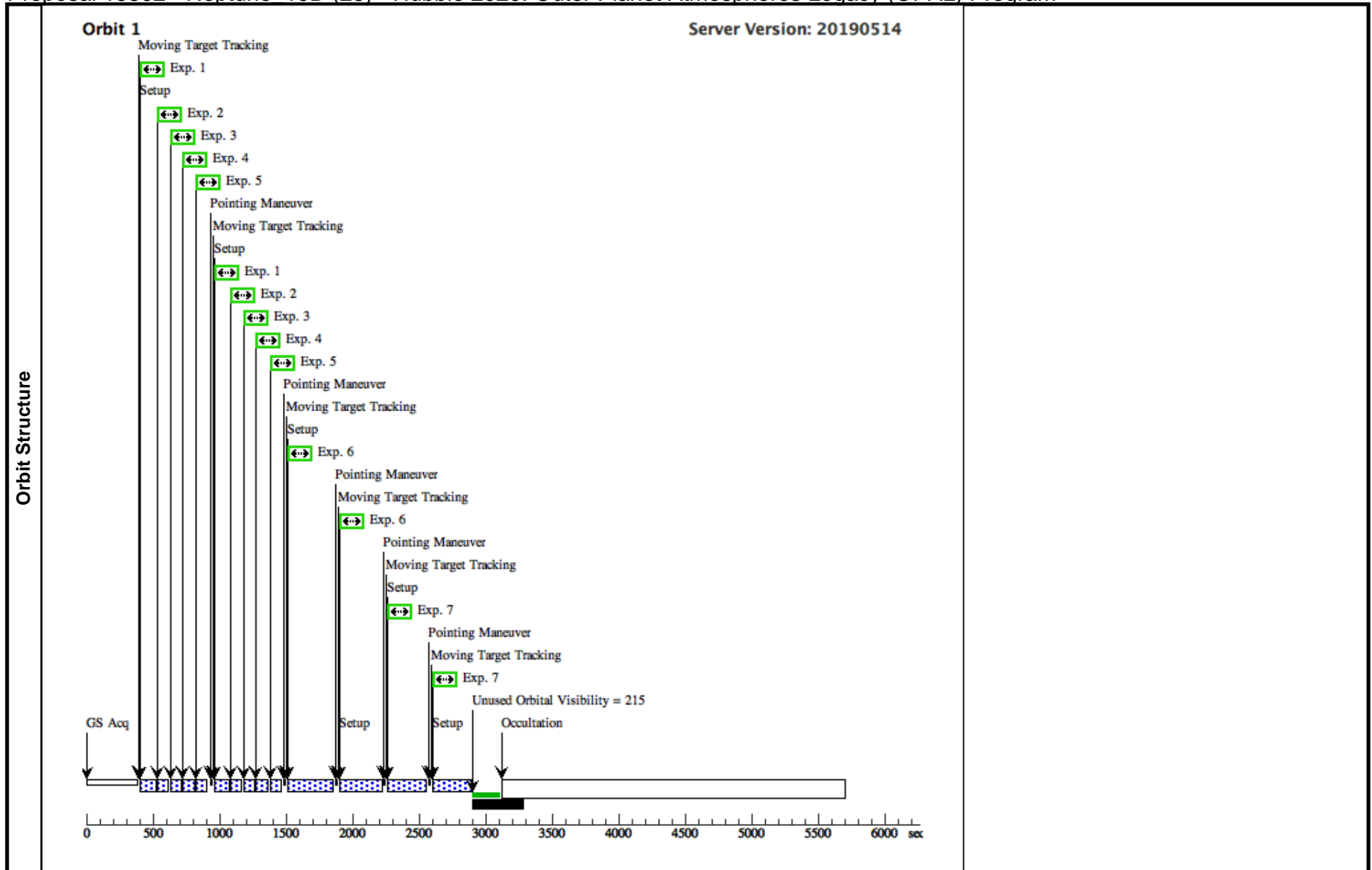
Proposal 15502 - Neptune 19D (25) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:23 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Neptune_19D (25), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 24 BY 1.9 Orbits TO 3.1 Orbits; VISIBILITY INTERVAL 52 M																			
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	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center													
(4)	NEPTUNE-MAPS	STD=NEPTUNE				EARTH														
Comments: Description=Global Neptune Maps																				

Proposal 15502 - Neptune 19D (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 BASE1BE	Sequence 1-7 Non-Int in Neptune_19D (2 5)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19D ( 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 1-7 Non-Int in Neptune_19D (2 5)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19D ( 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		Sequence 1-7 Non-Int in Neptune_19D (2 5)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19D ( 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 1-7 Non-Int in Neptune_19D (2 5)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19D ( 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 1-7 Non-Int in Neptune_19D (2 5)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19D ( 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 1-7 Non-Int in Neptune_19D (2 5)  Pattern 3, Exps 6-6 i n Sequence 1-7 Non- Int in Neptune_19D ( 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 1-7 Non-Int in Neptune_19D (2 5)  Pattern 3, Exps 7-7 i n Sequence 1-7 Non- Int in Neptune_19D ( 25) (3)	120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



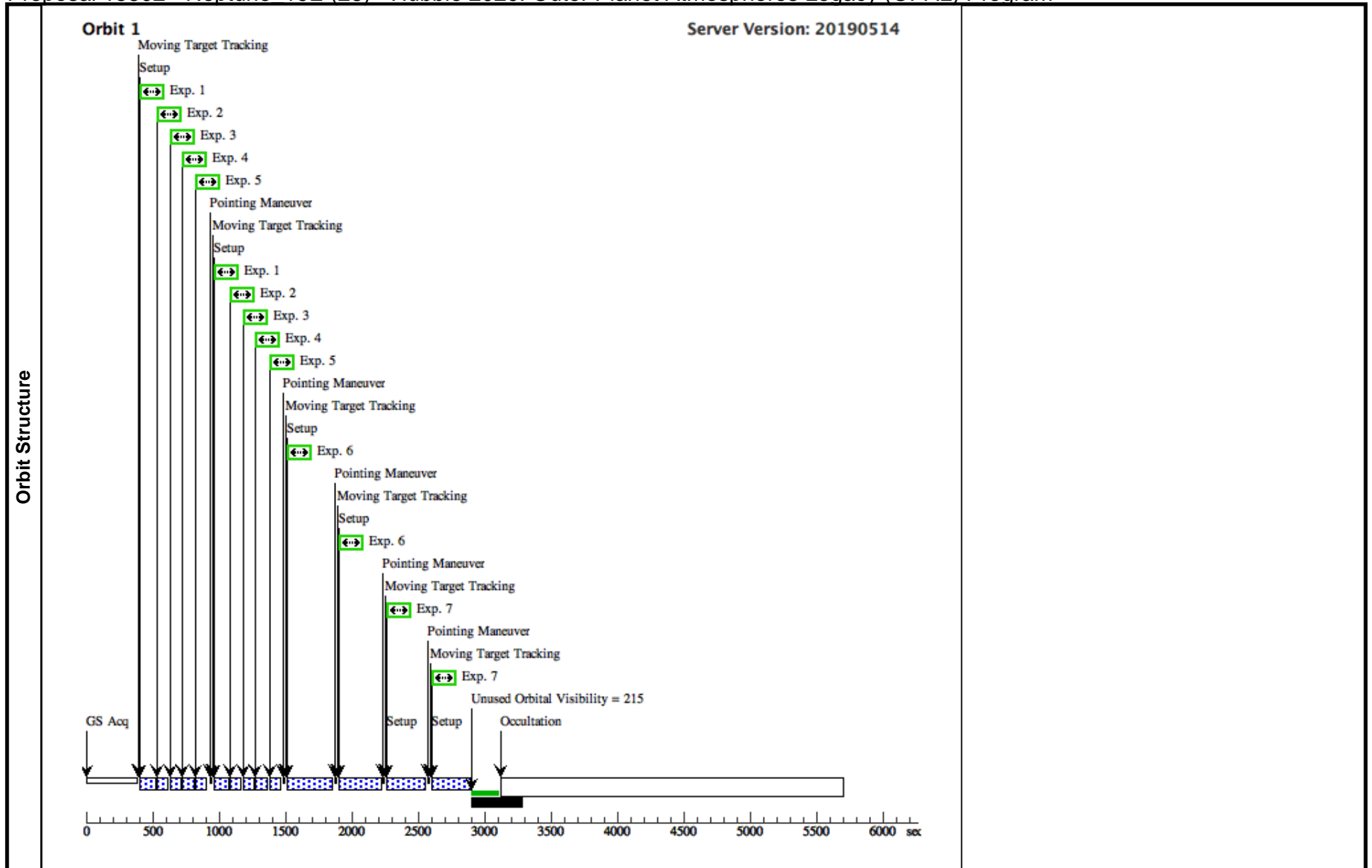
Proposal 15502 - Neptune 19E (26) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:23 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Neptune_19E (26), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 25 BY 1.9 Orbits TO 3.1 Orbits; VISIBILITY INTERVAL 52 M						
	(F845M (26.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (26.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (26.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F657N (26.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (26.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (26.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (26.006)) 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 (26.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (26.007)) 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.						
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>			
	(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)			
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>
	(4)	NEPTUNE-MAPS	STD=NEPTUNE				EARTH
Comments: Description=Global Neptune Maps							

Proposal 15502 - Neptune 19E (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 BASE1BE	Sequence 1-7 Non-Int in Neptune_19E (2 6) Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19E ( 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		Sequence 1-7 Non-Int in Neptune_19E (2 6) Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19E ( 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		Sequence 1-7 Non-Int in Neptune_19E (2 6) Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19E ( 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		Sequence 1-7 Non-Int in Neptune_19E (2 6) Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19E ( 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		Sequence 1-7 Non-Int in Neptune_19E (2 6) Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19E ( 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	Sequence 1-7 Non-Int in Neptune_19E (2 6) Pattern 3, Exps 6-6 i n Sequence 1-7 Non- Int in Neptune_19E ( 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	Sequence 1-7 Non-Int in Neptune_19E (2 6) Pattern 3, Exps 7-7 i n Sequence 1-7 Non- Int in Neptune_19E ( 26) (3)	120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



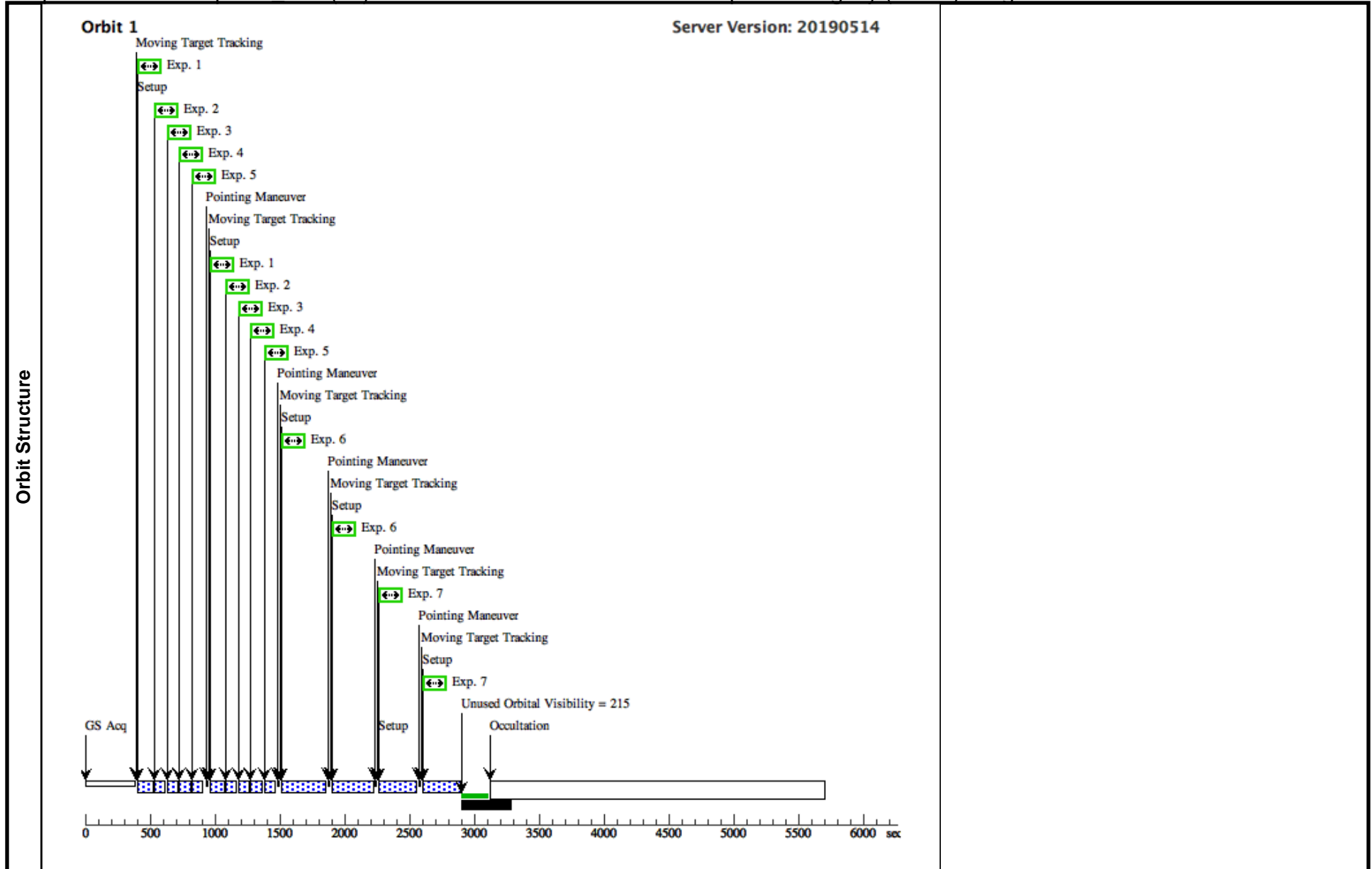
Proposal 15502 - Neptune 19F (27) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:23 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Neptune_19F (27), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 26 BY 1.9 Orbits TO 3.1 Orbits; VISIBILITY INTERVAL 52 M						
<b>Diagnostics</b>	(F845M (27.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (27.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (27.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F657N (27.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (27.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (27.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (27.006)) 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. (FQ619N_quadA (27.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (27.007)) 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.						
<b>Patterns</b>	#	<b>Primary Pattern</b>		<b>Secondary Pattern</b>		<b>Exposures</b>	
	(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)	
<b>Solar System Targets</b>	#	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>
	(4)	NEPTUNE-MAPS	STD=NEPTUNE				EARTH
	Comments: Description=Global Neptune Maps						

Proposal 15502 - Neptune 19F (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 BASE1BE	Sequence 1-7 Non-Int in Neptune_19F (27)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19F ( 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		Sequence 1-7 Non-Int in Neptune_19F (27)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19F ( 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		Sequence 1-7 Non-Int in Neptune_19F (27)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19F ( 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		Sequence 1-7 Non-Int in Neptune_19F (27)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19F ( 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		Sequence 1-7 Non-Int in Neptune_19F (27)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19F ( 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	Sequence 1-7 Non-Int in Neptune_19F (27)  Pattern 3, Exps 6-6 i n Sequence 1-7 Non- Int in Neptune_19F ( 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	Sequence 1-7 Non-Int in Neptune_19F (27)  Pattern 3, Exps 7-7 i n Sequence 1-7 Non- Int in Neptune_19F ( 27) (3)	120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



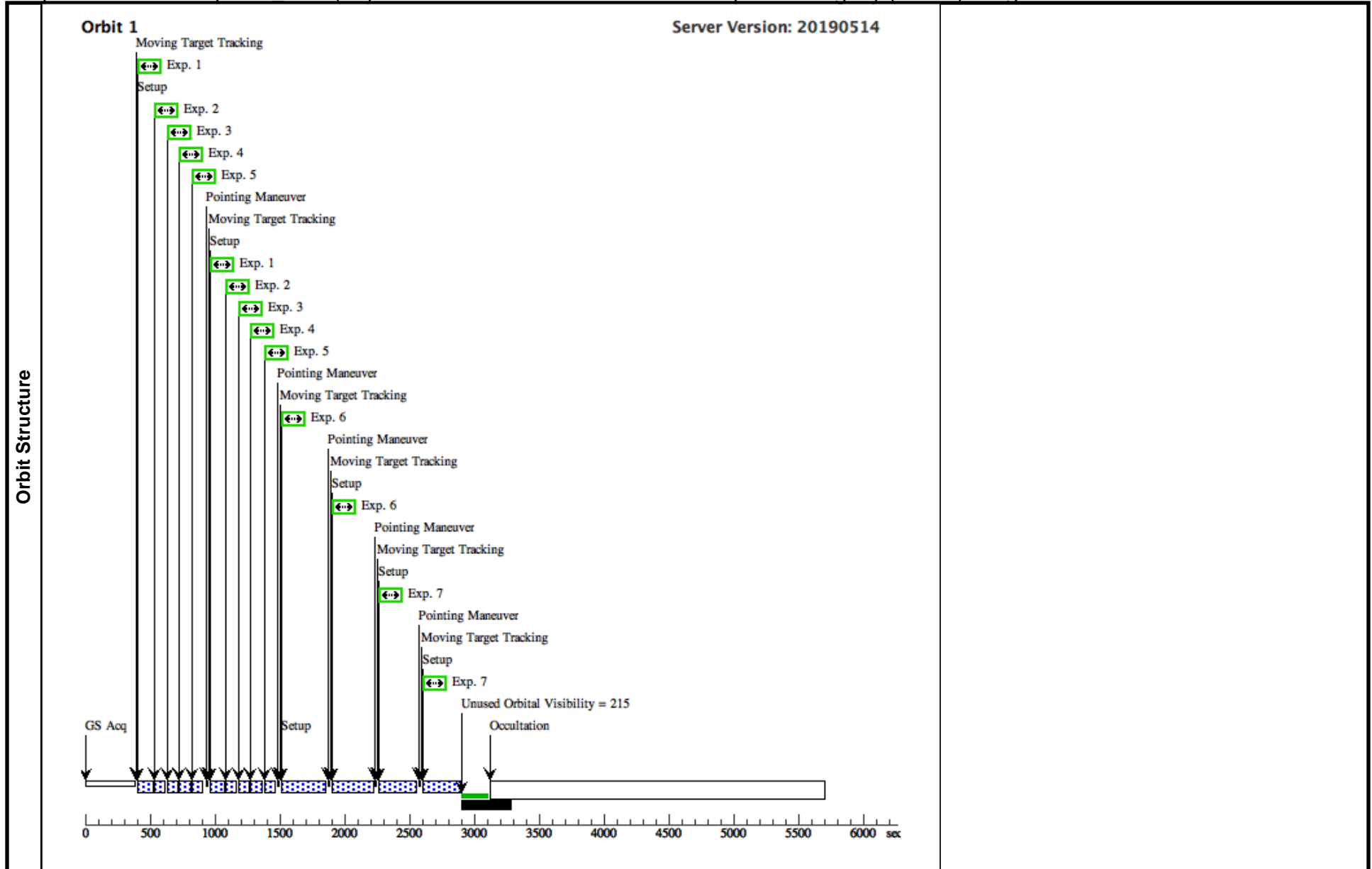
Proposal 15502 - Neptune 19G (28) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:23 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Neptune_19G (28), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 27 BY 1.9 Orbits TO 3.1 Orbits; SEQ 27,28 WITHIN 3 Orbits; VISIBILITY INTERVAL 52 M						
<b>Diagnostics</b>	(F845M (28.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (28.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (28.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F657N (28.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (28.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (28.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (28.006)) 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 (28.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (28.007)) 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.						
<b>Patterns</b>	#	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>			
	(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)			
<b>Solar System Targets</b>	#	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>
	(4)	NEPTUNE-MAPS	STD=NEPTUNE				EARTH
	Comments: Description=Global Neptune Maps						

Proposal 15502 - Neptune 19G (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 BASE1BE	Sequence 1-7 Non-Int in Neptune_19G (2 8)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19G ( 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 1-7 Non-Int in Neptune_19G (2 8)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19G ( 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		Sequence 1-7 Non-Int in Neptune_19G (2 8)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19G ( 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 1-7 Non-Int in Neptune_19G (2 8)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19G ( 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 1-7 Non-Int in Neptune_19G (2 8)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19G ( 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 1-7 Non-Int in Neptune_19G (2 8)  Pattern 3, Exps 6-6 i n Sequence 1-7 Non- Int in Neptune_19G ( 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; SAA CONTOUR 02	Sequence 1-7 Non-Int in Neptune_19G (2 8)  Pattern 3, Exps 7-7 i n Sequence 1-7 Non- Int in Neptune_19G ( 28) (3)	120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



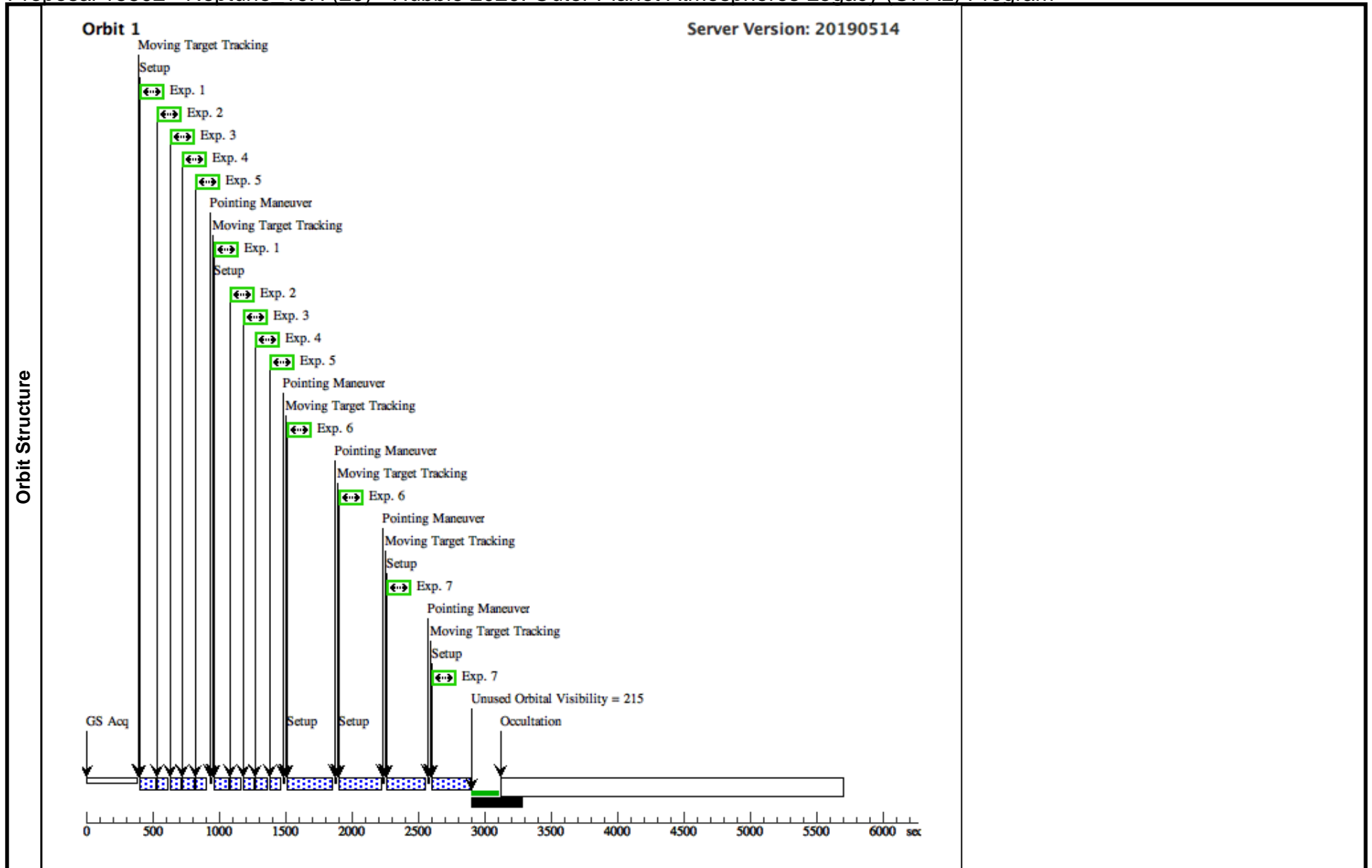
Proposal 15502 - Neptune 19H (29) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:23 GMT 2019

<b>Visit</b>	<p><b>Proposal 15502, Neptune_19H (29), implementation</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: AFTER 22 BY 17.9 Orbits TO 18.1 Orbits; VISIBILITY INTERVAL 52 M</p>						
<b>Diagnostics</b>	<p>(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</p> <p>(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</p> <p>(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</p> <p>(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</p> <p>(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</p> <p>(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</p> <p>(FQ727N_quadD (29.006)) Warning (Form): POS TARG &amp; 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.</p> <p>(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</p> <p>(FQ619N_quadA (29.007)) Warning (Form): POS TARG &amp; 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.</p>						
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>			
	(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)			
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>
	(4)	NEPTUNE-MAPS	STD=NEPTUNE				EARTH
<p><i>Comments: Description=Global Neptune Maps</i></p>							

Proposal 15502 - Neptune 19H (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 BASE1BE	Sequence 1-7 Non-Int in Neptune_19H (2 9)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19H ( 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 1-7 Non-Int in Neptune_19H (2 9)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19H ( 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		Sequence 1-7 Non-Int in Neptune_19H (2 9)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19H ( 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 1-7 Non-Int in Neptune_19H (2 9)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19H ( 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 1-7 Non-Int in Neptune_19H (2 9)  Pattern 3, Exps 1-5 i n Sequence 1-7 Non- Int in Neptune_19H ( 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 1-7 Non-Int in Neptune_19H (2 9)  Pattern 3, Exps 6-6 i n Sequence 1-7 Non- Int in Neptune_19H ( 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 1-7 Non-Int in Neptune_19H (2 9)  Pattern 3, Exps 7-7 i n Sequence 1-7 Non- Int in Neptune_19H ( 29) (3)	120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 15502 - Saturn 19A (30) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:23 GMT 2019

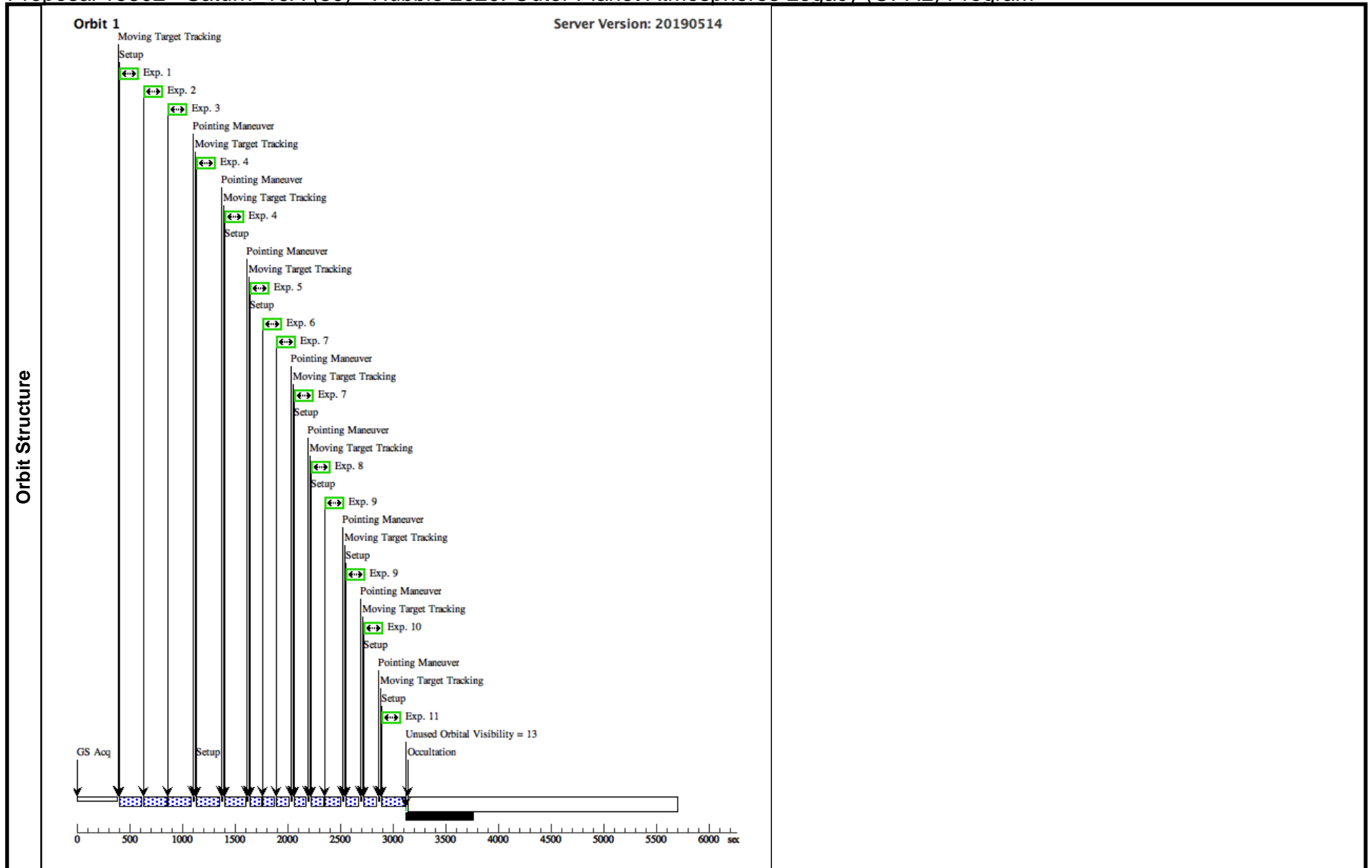
<b>Visit</b>	<p><b>Proposal 15502, Saturn_19A (30), completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 09-JUN-2019 AND 08-AUG-2019</p> <p><i>Comments: 12 orbits, should be contiguous, if possible. A gap of 1 or 2 orbits between 6 - 7 is acceptable, or a gap between 5-6, 6-7, or 7-8. Impingement into SAA is OK if the above timing gaps cannot prevent it.</i></p> <p><i>Saturn opposition +/- 30 days</i></p> <p><i>Proposed primary filters: 225, 275, 343, 395, 502, 631, 727, 750</i></p> <p><i>Secondary: 889 and 937</i></p> <p><i>Swap 750 to 763 for consistency with other data sets and timing reasons</i></p> <p><i>Swap 658 for 889 for consistency with Jupiter</i></p> <p><i>If orbital visibility requires a cut, remove F467M first</i></p>			
<b>Diagnostics</b>	<p>(F631N_2K (30.001)) 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_2K (30.002)) 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_2K (30.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727_quadD (30.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727_quadD (30.004)) Warning (Form): POS TARG &amp; 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.</p> <p>(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</p> <p>(F467M (30.006)) 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 (30.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F343N (30.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F225W (30.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F225W (30.010)) 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 (30.011)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>			
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>
	(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(7), (9)
(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	(4)	

Proposal 15502 - Saturn 19A (30) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(2)	SATURN-MAPS	STD=SATURN				NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10"
<i>Comments: Description=Gloabl Saturn maps</i>							

Proposal 15502 - Saturn 19A (30) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	F631N_2K (WFC3UVI S.im.712372 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F631N	CR-SPLIT=NO	Sequence 1-11 Non-Int in Saturn_19A (30)	15 Secs (15 Secs) [==>]	[1]
	2	F502N_2K (WFC3UVI S.im.712369 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F502N	CR-SPLIT=NO	Sequence 1-11 Non-Int in Saturn_19A (30)	23 Secs (23 Secs) [==>]	[1]
	3	F395N_2K (WFC3UVI S.im.100533 7)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F395N	CR-SPLIT=NO	Sequence 1-11 Non-Int in Saturn_19A (30)	40 Secs (40 Secs) [==>]	[1]
	4	FQ727_qua dD (WFC3UVI S.im.100539 3)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -10,10 Sequence 1-11 Non-Int in Saturn_19A (30) Pattern 3, Exps 4-4 in Sequence 1-11 Non-Int in Saturn_19A (30) (3)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	F763M (WFC3UVI S.im.100534 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F763M	CR-SPLIT=NO; BLADE=A	Sequence 1-11 Non-Int in Saturn_19A (30)	2 Secs (2 Secs) [==>]	[1]
	6	F467M (WFC3UVI S.im.100533 9)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F467M	CR-SPLIT=NO; BLADE=A	Sequence 1-11 Non-Int in Saturn_19A (30)	7 Secs (7 Secs) [==>]	[1]
	7	F275W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W	CR-SPLIT=NO	Sequence 1-11 Non-Int in Saturn_19A (30) Pattern 2, Exps 7-7 in Sequence 1-11 Non-Int in Saturn_19A (30) (2)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	F343N (WFC3UVI S.im.100533 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F343N	CR-SPLIT=NO	Sequence 1-11 Non-Int in Saturn_19A (30)	20 Secs (20 Secs) [==>]	[1]
	9	F225W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W	CR-SPLIT=NO	Sequence 1-11 Non-Int in Saturn_19A (30) Pattern 2, Exps 9-9 in Sequence 1-11 Non-Int in Saturn_19A (30) (2)	45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	10	F225W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W	CR-SPLIT=NO	Sequence 1-11 Non-Int in Saturn_19A (30)	45 Secs (45 Secs) [==>]	[1]
	11	FQ889_qua dA	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	Sequence 1-11 Non-Int in Saturn_19A (30)	30 Secs (30 Secs) [==>]	[1]



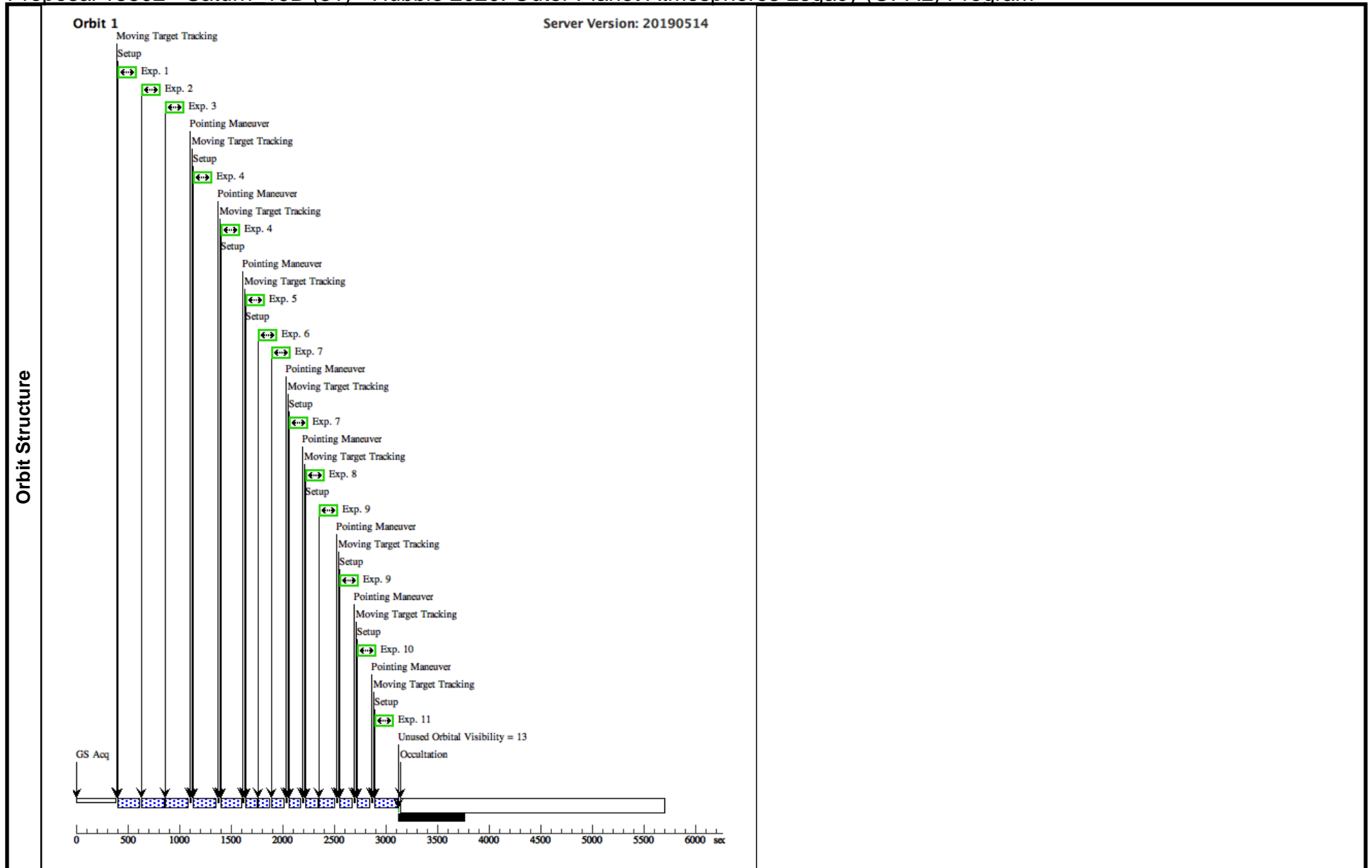
Proposal 15502 - Saturn 19B (31) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:23 GMT 2019

<b>Visit</b>	Proposal 15502, Saturn_19B (31), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 30 BY 0.9 Orbits TO 1.1 Orbits						
<b>Diagnostics</b>	(F631N_2K (31.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N_2K (31.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N_2K (31.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (31.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (31.004)) 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. (F763M (31.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (31.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (31.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (31.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F225W (31.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F225W (31.010)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (31.011)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser						
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>			
	(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(7), (9)			
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>
	(2)	SATURN-MAPS	STD=SATURN				NOT ECL P PARTIAL OF SATURN- EARTH MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10"
Comments: Description=Gloabl Saturn maps							

Proposal 15502 - Saturn 19B (31) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	F631N_2K (WFC3UVI S.im.712372 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F631N	CR-SPLIT=NO	GS ACQ SCENARI O BASE1BE	Sequence 1-11 Non-Int in Saturn_19B (31)	15 Secs (15 Secs) [==>]	[1]
	2	F502N_2K (WFC3UVI S.im.712369 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F502N	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19B (31)	23 Secs (23 Secs) [==>]	[1]
	3	F395N_2K (WFC3UVI S.im.100533 7)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F395N	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19B (31)	40 Secs (40 Secs) [==>]	[1]
	4	FQ727_qua dD (WFC3UVI S.im.100539 3)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -10,10	Sequence 1-11 Non-Int in Saturn_19B (31)  Pattern 3, Exps 4-4 i n Sequence 1-11 No n-Int in Saturn_19B ( 31) (3)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	F763M (WFC3UVI S.im.100534 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F763M	CR-SPLIT=NO; BLADE=A		Sequence 1-11 Non-Int in Saturn_19B (31)	2 Secs (2 Secs) [==>]	[1]
	6	F467M (WFC3UVI S.im.100533 9)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-11 Non-Int in Saturn_19B (31)	7 Secs (7 Secs) [==>]	[1]
	7	F275W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19B (31)  Pattern 2, Exps 7-7 i n Sequence 1-11 No n-Int in Saturn_19B ( 31) (2)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	F343N (WFC3UVI S.im.100533 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F343N	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19B (31)	20 Secs (20 Secs) [==>]	[1]
	9	F225W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19B (31)  Pattern 2, Exps 9-9 i n Sequence 1-11 No n-Int in Saturn_19B ( 31) (2)	45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	10	F225W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19B (31)	45 Secs (45 Secs) [==>]	[1]
	11	FQ889_qua dA	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19B (31)	30 Secs (30 Secs) [==>]	[1]



Proposal 15502 - Gyro Bias Update (G6) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

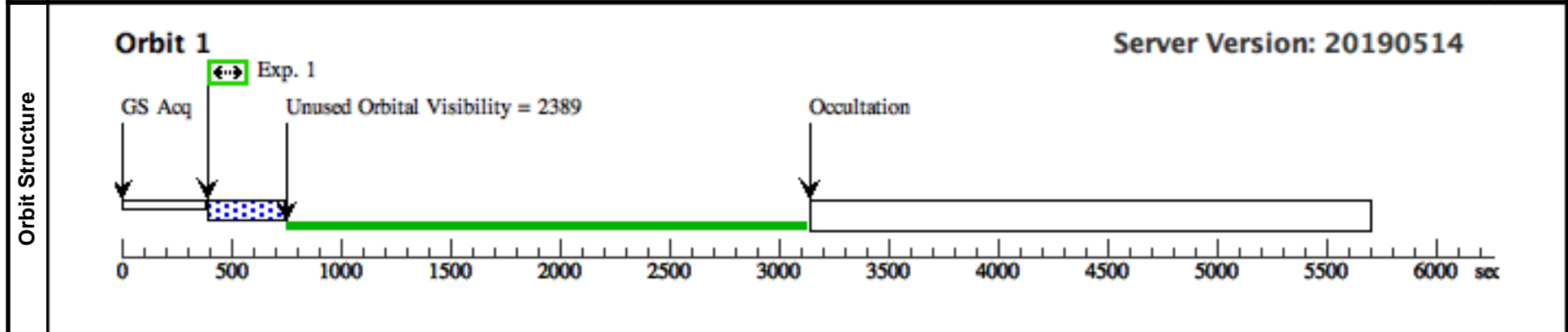
Tue Sep 03 13:01:23 GMT 2019

<b>Visit</b>	Proposal 15502, Gyro Bias Update (G6), completed					
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: S/C					
	Special Requirements: NOTRACK; AFTER 31 BY 0.9 Orbits TO 1.1 Orbits					

<b>Solar System Targets</b>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(2)	SATURN-MAPS	STD=SATURN				NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10"

*Comments: Description=Gloabl Saturn maps*

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) SATURN-MAPS	S/C, POINTING, V1						360.0 Secs (360 Secs)
									[==>]	[1]



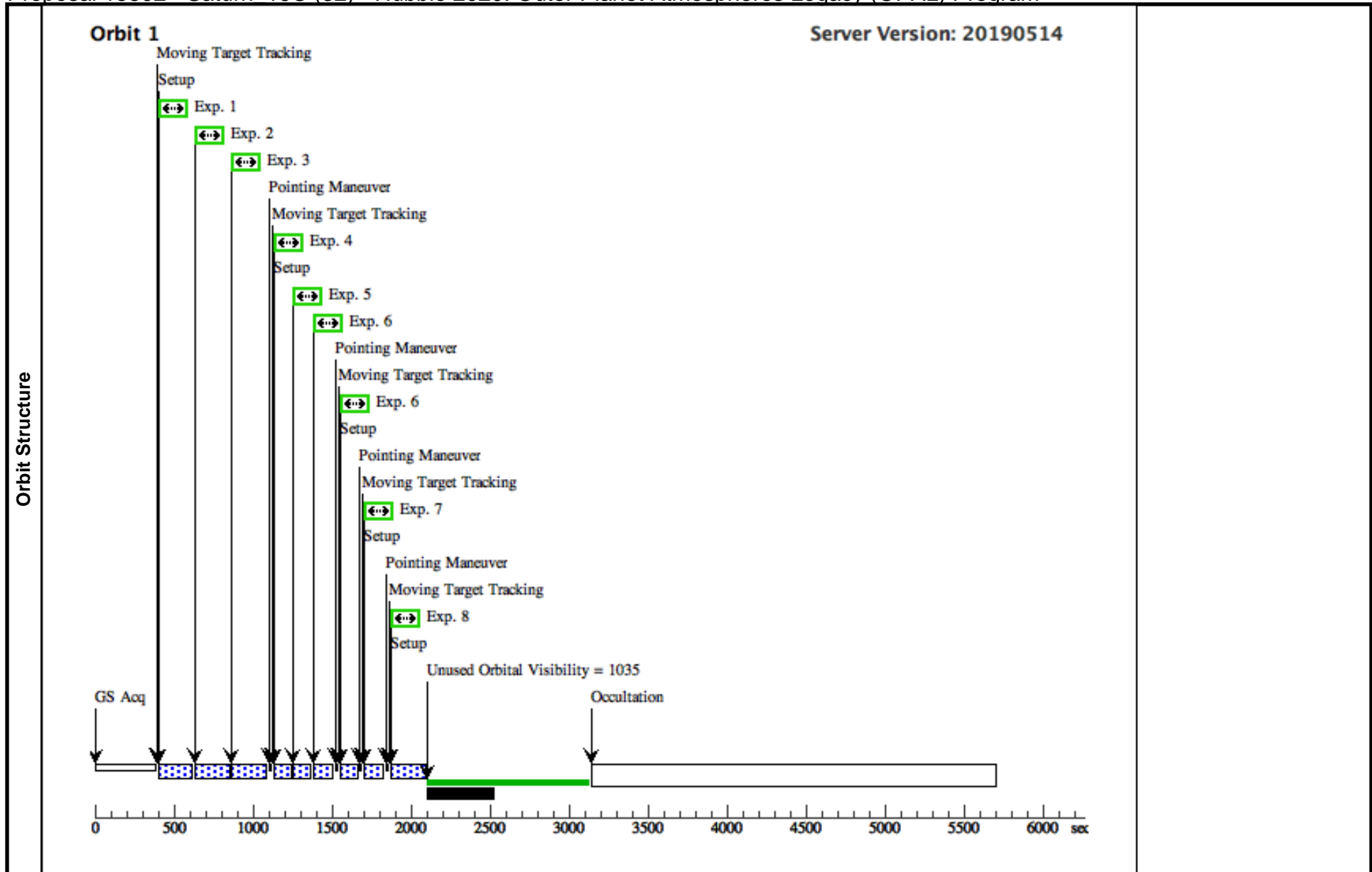
Proposal 15502 - Saturn 19C (32) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:23 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Saturn_19C (32), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER G6 BY 0 Orbits TO 0.5 Orbits					
	<b>Diagnosics</b> (F631N_2K (32.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N_2K (32.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N_2K (32.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (32.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (32.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (32.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (32.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (32.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>		<b>Secondary Pattern</b>		<b>Exposures</b>
	(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(6)
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>
	(2)	SATURN-MAPS	STD=SATURN			NOT ECL P PARTIAL OF SATURN- EARTH MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10"
Comments: Description=Gloabl Saturn maps						

Proposal 15502 - Saturn 19C (32) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F631N_2K (WFC3UVI S.im.712372 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F631N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_19C (32)	15 Secs (15 Secs) [==>]	[1]
	2	F502N_2K (WFC3UVI S.im.712369 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F502N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_19C (32)	23 Secs (23 Secs) [==>]	[1]
	3	F395N_2K (WFC3UVI S.im.100533 7)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F395N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_19C (32)	40 Secs (40 Secs) [==>]	[1]
	4	F763M (WFC3UVI S.im.100534 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F763M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Saturn_19C (32)	2 Secs (2 Secs) [==>]	[1]
	5	F467M (WFC3UVI S.im.100533 9)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Saturn_19C (32)	7 Secs (7 Secs) [==>]	[1]
	6	F275W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_19C (32) Pattern 2, Exps 6-6 i n Sequence 1-8 Non- Int in Saturn_19C (3 2) (2)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	7	F343N (WFC3UVI S.im.100533 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F343N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_19C (32)	20 Secs (20 Secs) [==>]	[1]
	8	FQ889_qua dA	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_19C (32)	30 Secs (30 Secs) [==>]	[1]



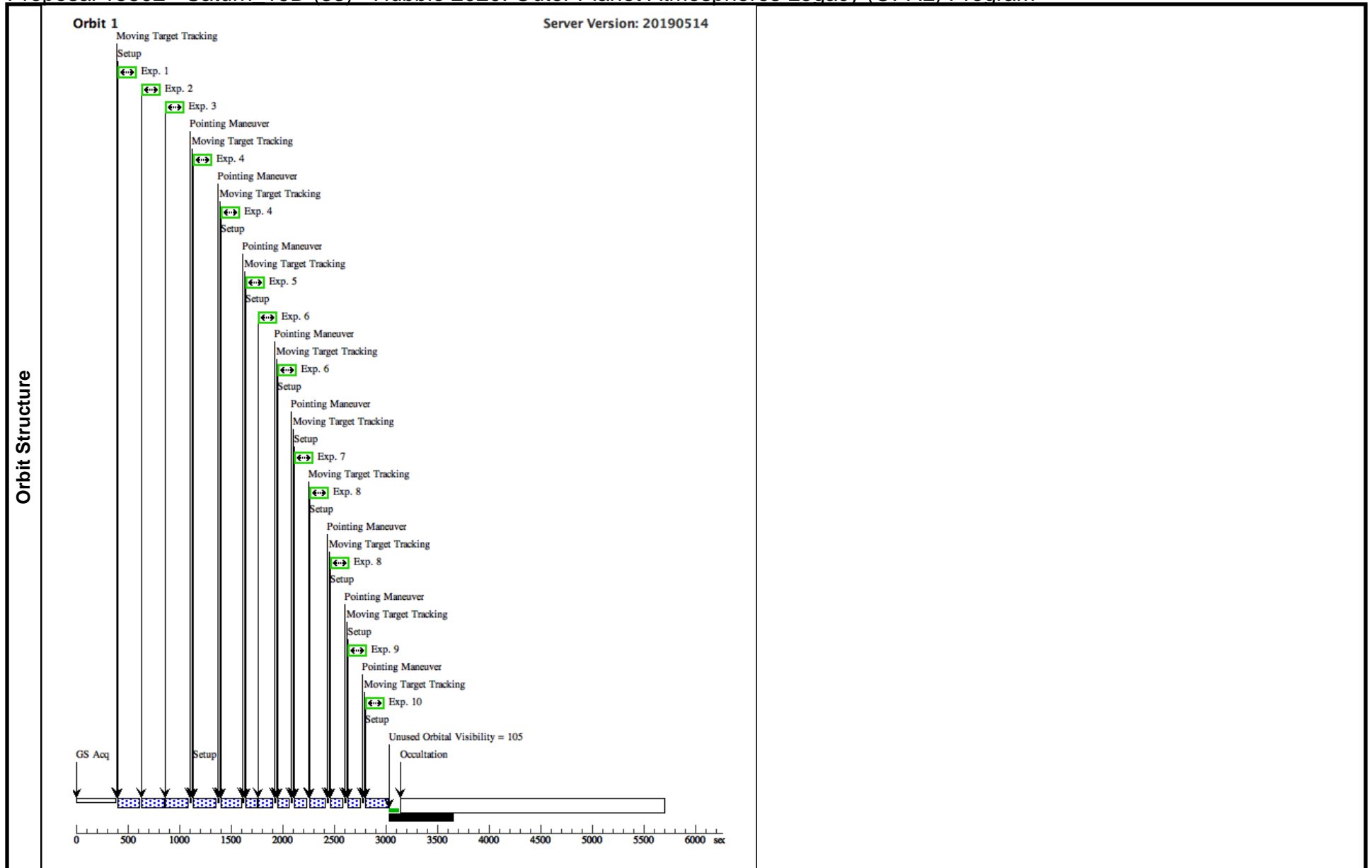
Proposal 15502 - Saturn 19D (33) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:24 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Saturn_19D (33), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 32 BY 0.5 Orbits TO 1.1 Orbits <i>Comments: F467M cut for orbit visibility. Will be added back in if it fits</i>						
	<b>Diagnosics</b> (F631N_2K (33.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N_2K (33.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N_2K (33.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (33.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (33.004)) 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. (F763M (33.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (33.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (33.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F225W (33.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F225W (33.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (33.010)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser						
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>		<b>Secondary Pattern</b>		<b>Exposures</b>	
	(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(6), (8)	
	(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			(4)	
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>
	(2)	SATURN-MAPS	STD=SATURN				NOT ECL P PARTIAL OF SATURN- EARTH MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10"
<i>Comments: Description=Gloabl Saturn maps</i>							

Proposal 15502 - Saturn 19D (33) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	F631N_2K (WFC3UVI S.im.712372 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F631N	CR-SPLIT=NO	Sequence 1-10 Non-Int in Saturn_19D (33)	15 Secs (15 Secs) [==>]	[1]
	2	F502N_2K (WFC3UVI S.im.712369 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F502N	CR-SPLIT=NO	Sequence 1-10 Non-Int in Saturn_19D (33)	23 Secs (23 Secs) [==>]	[1]
	3	F395N_2K (WFC3UVI S.im.100533 7)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F395N	CR-SPLIT=NO	Sequence 1-10 Non-Int in Saturn_19D (33)	40 Secs (40 Secs) [==>]	[1]
	4	FQ727_qua dD (WFC3UVI S.im.100539 3)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -10,10 Sequence 1-10 Non-Int in Saturn_19D (33) Pattern 3, Exps 4-4 i n Sequence 1-10 No n-Int in Saturn_19D (33) (3)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	F763M (WFC3UVI S.im.100534 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F763M	CR-SPLIT=NO; BLADE=A	Sequence 1-10 Non-Int in Saturn_19D (33)	2 Secs (2 Secs) [==>]	[1]
	6	F275W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W	CR-SPLIT=NO	Sequence 1-10 Non-Int in Saturn_19D (33) Pattern 2, Exps 6-6 i n Sequence 1-10 No n-Int in Saturn_19D (33) (2)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	7	F343N (WFC3UVI S.im.100533 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F343N	CR-SPLIT=NO	SAA CONTOUR 02 Sequence 1-10 Non-Int in Saturn_19D (33)	20 Secs (20 Secs) [==>]	[1]
	8	F225W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W	CR-SPLIT=NO	Sequence 1-10 Non-Int in Saturn_19D (33) Pattern 2, Exps 8-8 i n Sequence 1-10 No n-Int in Saturn_19D (33) (2)	45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	9	F225W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W	CR-SPLIT=NO	Sequence 1-10 Non-Int in Saturn_19D (33)	45 Secs (45 Secs) [==>]	[1]
	10	FQ889_qua dA	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	Sequence 1-10 Non-Int in Saturn_19D (33)	30 Secs (30 Secs) [==>]	[1]



Proposal 15502 - Gyro Bias Update (G7) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

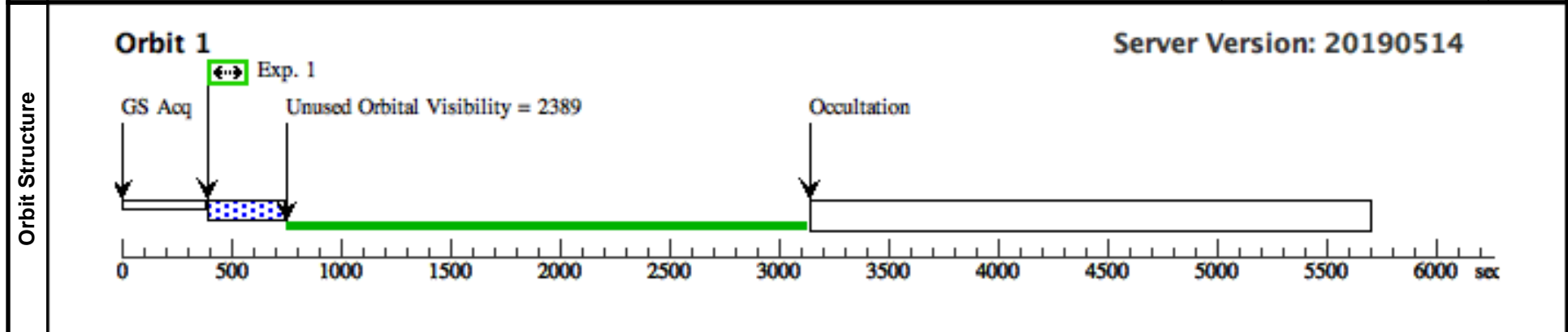
Tue Sep 03 13:01:24 GMT 2019

<b>Visit</b>	Proposal 15502, Gyro Bias Update (G7), completed					
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: S/C					
	Special Requirements: NOTRACK; AFTER 33 BY 0.9 Orbits TO 1.1 Orbits					

<b>Solar System Targets</b>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(2)	SATURN-MAPS	STD=SATURN				NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10"

*Comments: Description=Gloabl Saturn maps*

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) SATURN-MAPS	S/C, POINTING, V1						360.0 Secs (360 Secs)
									[==>]	[1]



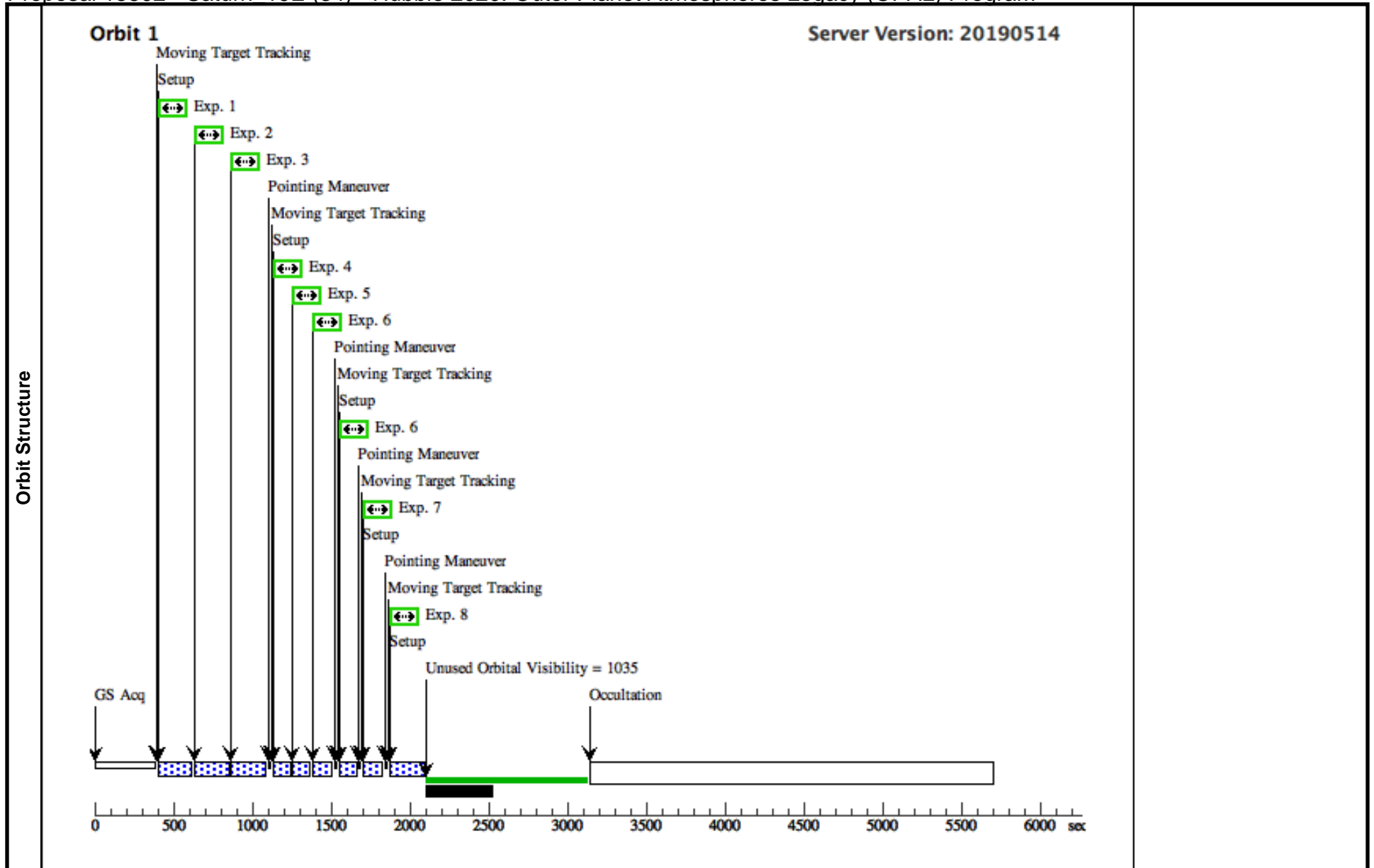
Proposal 15502 - Saturn 19E (34) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:24 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Saturn_19E (34), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER G7 BY 0 Orbits TO 0.5 Orbits					
	<b>Diagnosics</b> (F631N_2K (34.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N_2K (34.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N_2K (34.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (34.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (34.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (34.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (34.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (34.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>		<b>Secondary Pattern</b>		<b>Exposures</b>
	(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(6)
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>
	(2)	SATURN-MAPS	STD=SATURN			NOT ECL P PARTIAL OF SATURN- EARTH MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10"
Comments: Description=Gloabl Saturn maps						

Proposal 15502 - Saturn 19E (34) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F631N_2K (WFC3UVI S.im.712372 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F631N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_19E (34)	15 Secs (15 Secs) [==>]	[1]
	2	F502N_2K (WFC3UVI S.im.712369 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F502N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_19E (34)	23 Secs (23 Secs) [==>]	[1]
	3	F395N_2K (WFC3UVI S.im.100533 7)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F395N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_19E (34)	40 Secs (40 Secs) [==>]	[1]
	4	F763M (WFC3UVI S.im.100534 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F763M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Saturn_19E (34)	2 Secs (2 Secs) [==>]	[1]
	5	F467M (WFC3UVI S.im.100533 9)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-8 Non-Int in Saturn_19E (34)	7 Secs (7 Secs) [==>]	[1]
	6	F275W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_19E (34) Pattern 2, Exps 6-6 i n Sequence 1-8 Non- Int in Saturn_19E (3 4) (2)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	7	F343N (WFC3UVI S.im.100533 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F343N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_19E (34)	20 Secs (20 Secs) [==>]	[1]
	8	FQ889_qua dA	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_19E (34)	30 Secs (30 Secs) [==>]	[1]



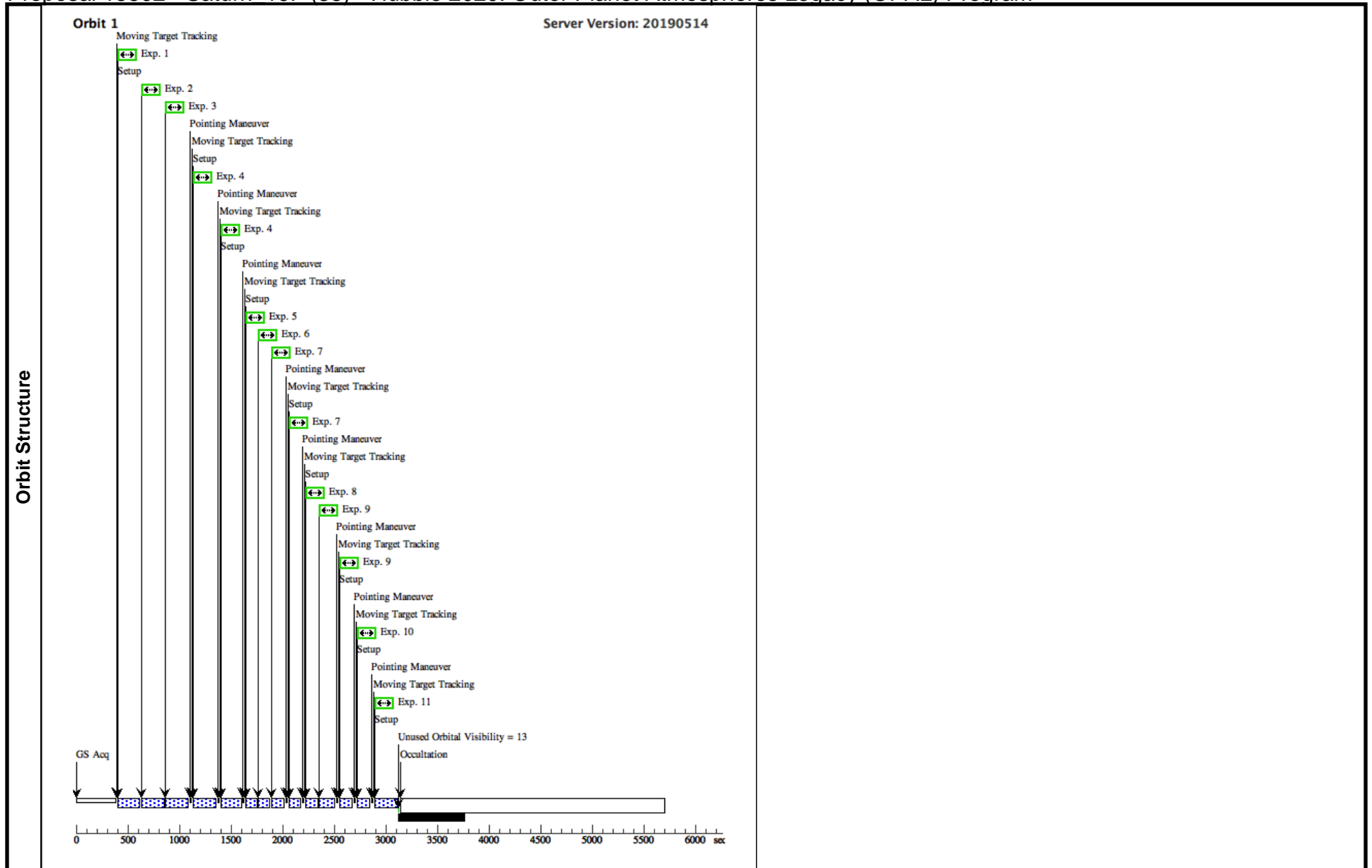
Proposal 15502 - Saturn 19F (35) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:24 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Saturn_19F (35), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 34 BY 0.5 Orbits TO 1.1 Orbits							
	<b>Diagnostics</b>	(F631N_2K (35.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N_2K (35.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N_2K (35.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (35.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (35.004)) 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. (F763M (35.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (35.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (35.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (35.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F225W (35.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F225W (35.010)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (35.011)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser						
<b>Patterns</b>		<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>			
		(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(7), (9)			
(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	(4)				
<b>Solar System Targets</b>		<b>#</b>	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>
		(2)	SATURN-MAPS	STD=SATURN			NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10"	EARTH
<i>Comments: Description=Gloabl Saturn maps</i>								

Proposal 15502 - Saturn 19F (35) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	F631N_2K (WFC3UVI S.im.712372 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F631N	CR-SPLIT=NO	Sequence 1-11 Non-Int in Saturn_19F (35)	15 Secs (15 Secs) [==>]	[1]
	2	F502N_2K (WFC3UVI S.im.712369 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F502N	CR-SPLIT=NO	Sequence 1-11 Non-Int in Saturn_19F (35)	23 Secs (23 Secs) [==>]	[1]
	3	F395N_2K (WFC3UVI S.im.100533 7)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F395N	CR-SPLIT=NO	Sequence 1-11 Non-Int in Saturn_19F (35)	40 Secs (40 Secs) [==>]	[1]
	4	FQ727_qua dD (WFC3UVI S.im.100539 3)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -10,10 Sequence 1-11 Non-Int in Saturn_19F (35) Pattern 3, Exps 4-4 in Sequence 1-11 Non-Int in Saturn_19F (35) (3)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	F763M (WFC3UVI S.im.100534 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F763M	CR-SPLIT=NO; BLADE=A	Sequence 1-11 Non-Int in Saturn_19F (35)	2 Secs (2 Secs) [==>]	[1]
	6	F467M (WFC3UVI S.im.100533 9)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F467M	CR-SPLIT=NO; BLADE=A	Sequence 1-11 Non-Int in Saturn_19F (35)	7 Secs (7 Secs) [==>]	[1]
	7	F275W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W	CR-SPLIT=NO	Sequence 1-11 Non-Int in Saturn_19F (35) Pattern 2, Exps 7-7 in Sequence 1-11 Non-Int in Saturn_19F (35) (2)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	F343N (WFC3UVI S.im.100533 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F343N	CR-SPLIT=NO	Sequence 1-11 Non-Int in Saturn_19F (35)	20 Secs (20 Secs) [==>]	[1]
	9	F225W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W	CR-SPLIT=NO	Sequence 1-11 Non-Int in Saturn_19F (35) Pattern 2, Exps 9-9 in Sequence 1-11 Non-Int in Saturn_19F (35) (2)	45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	10	F225W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W	CR-SPLIT=NO	Sequence 1-11 Non-Int in Saturn_19F (35)	45 Secs (45 Secs) [==>]	[1]
	11	FQ889_qua dA	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	Sequence 1-11 Non-Int in Saturn_19F (35)	30 Secs (30 Secs) [==>]	[1]



Proposal 15502 - Gyro Bias Update (G8) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

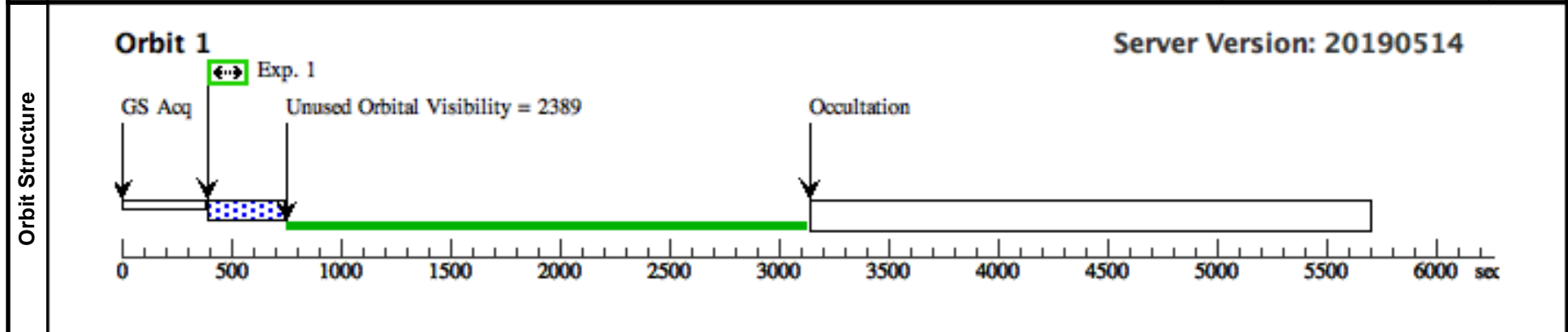
Tue Sep 03 13:01:24 GMT 2019

<b>Visit</b>	Proposal 15502, Gyro Bias Update (G8), completed					
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: S/C					
	Special Requirements: NOTRACK; AFTER 35 BY 0.9 Orbits TO 1.1 Orbits					

<b>Solar System Targets</b>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(2)	SATURN-MAPS	STD=SATURN				NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10"

*Comments: Description=Gloabl Saturn maps*

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) SATURN-MAPS	S/C, POINTING, V1						360.0 Secs (360 Secs)
									[==>]	[1]



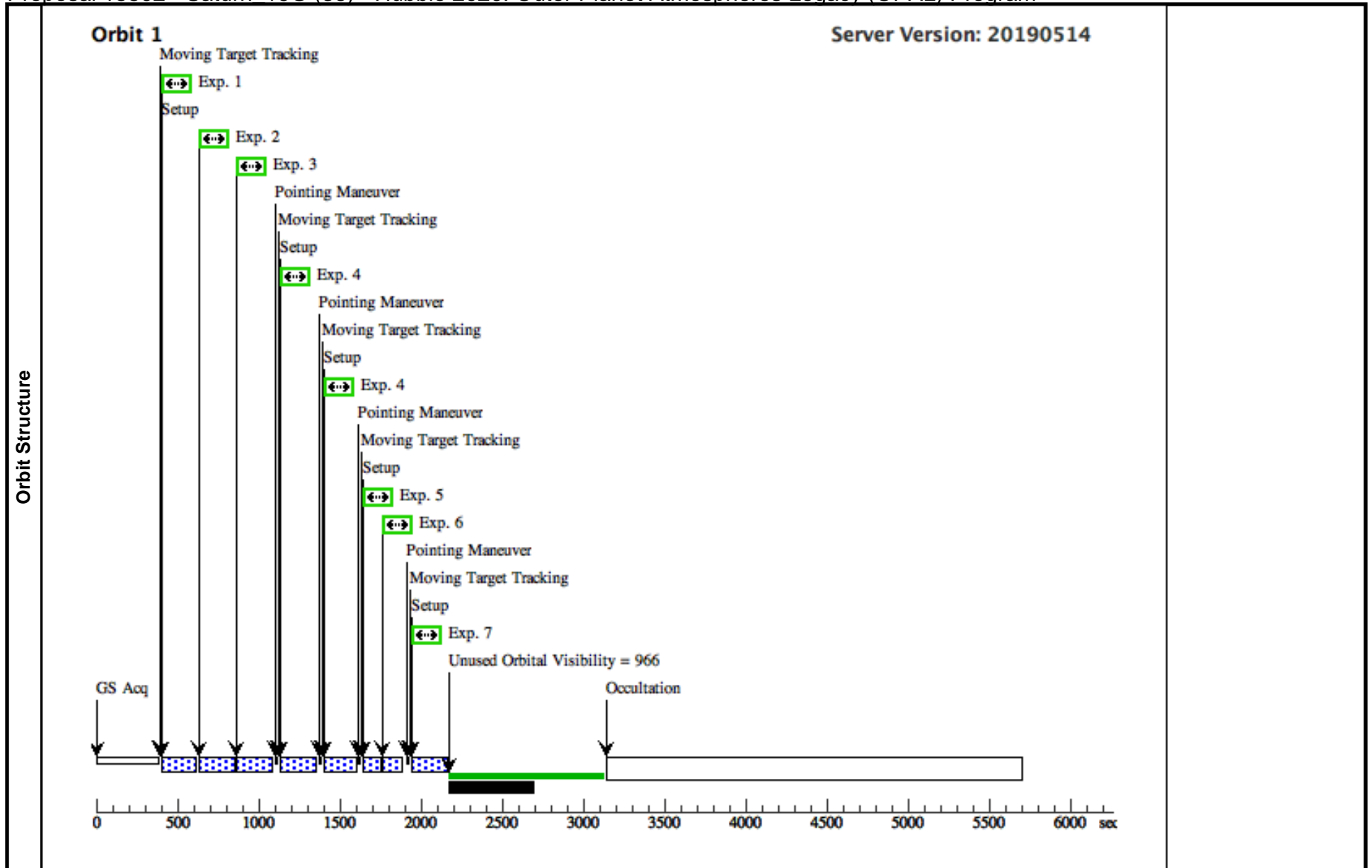
Proposal 15502 - Saturn 19G (36) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:24 GMT 2019

<b>Visit</b>	<p><b>Proposal 15502, Saturn_19G (36), completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: AFTER G8 BY 0 Orbits TO 0.5 Orbits</p>																			
<b>Diagnostics</b>	<p>(F631N_2K (36.001)) 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_2K (36.002)) 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_2K (36.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727_quadD (36.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727_quadD (36.004)) Warning (Form): POS TARG &amp; 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.</p> <p>(F763M (36.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F343N (36.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ889_quadA (36.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>																			
<b>Patterns</b>	<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>(4)</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	(4)											
#	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	(4)																	
<b>Solar System Targets</b>	<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>(2)</td> <td>SATURN-MAPS</td> <td>STD=SATURN</td> <td></td> <td></td> <td>NOT ECL P PARTIAL OF SATURN-                      MAPS BY TITAN FROM EARTH,                      SEP OF SATURN-MAPS RHEA                      FROM EARTH GT 10",                      SEP OF SATURN-MAPS TITAN                      FROM EARTH GT 10"</td> <td>EARTH</td> </tr> </tbody> </table> <p><i>Comments: Description=Gloabl Saturn maps</i></p>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(2)	SATURN-MAPS	STD=SATURN			NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10"	EARTH					
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center														
(2)	SATURN-MAPS	STD=SATURN			NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10"	EARTH														

Proposal 15502 - Saturn 19G (36) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	F631N_2K (WFC3UVI S.im.712372 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F631N	CR-SPLIT=NO			Sequence 1-7 Non-Int in Saturn_19G (36)	15 Secs (15 Secs) [==>]	[1]
	2	F502N_2K (WFC3UVI S.im.712369 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F502N	CR-SPLIT=NO			Sequence 1-7 Non-Int in Saturn_19G (36)	23 Secs (23 Secs) [==>]	[1]
	3	F395N_2K (WFC3UVI S.im.100533 7)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F395N	CR-SPLIT=NO			Sequence 1-7 Non-Int in Saturn_19G (36)	40 Secs (40 Secs) [==>]	[1]
	4	FQ727_qua dD (WFC3UVI S.im.100539 3)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -10,10		Sequence 1-7 Non-Int in Saturn_19G (36) Pattern 3, Exps 4-4 i n Sequence 1-7 Non- Int in Saturn_19G (3 6) (3)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	F763M (WFC3UVI S.im.100534 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F763M	CR-SPLIT=NO; BLADE=A			Sequence 1-7 Non-Int in Saturn_19G (36)	2 Secs (2 Secs) [==>]	[1]
	6	F343N (WFC3UVI S.im.100533 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F343N	CR-SPLIT=NO			Sequence 1-7 Non-Int in Saturn_19G (36)	20 Secs (20 Secs) [==>]	[1]
	7	FQ889_qua dA	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO			Sequence 1-7 Non-Int in Saturn_19G (36)	30 Secs (30 Secs) [==>]	[1]



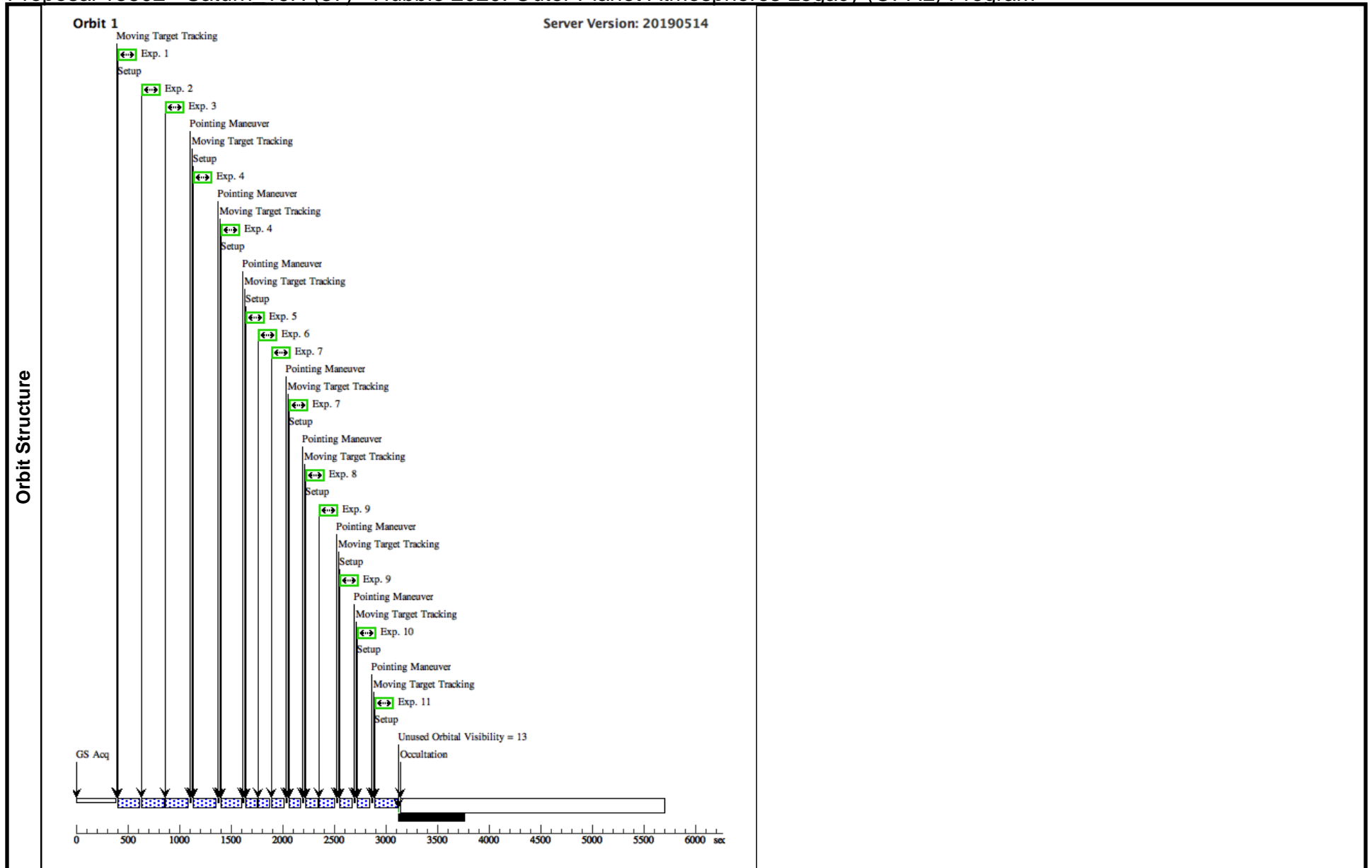
Proposal 15502 - Saturn 19H (37) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:24 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Saturn_19H (37), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 36 BY 0.5 Orbits TO 1.1 Orbits							
	<b>Diagnostics</b>	(F631N_2K (37.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N_2K (37.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N_2K (37.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (37.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (37.004)) 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. (F763M (37.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (37.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (37.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (37.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F225W (37.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F225W (37.010)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (37.011)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser						
<b>Patterns</b>		<b>#</b>	<b>Primary Pattern</b>		<b>Secondary Pattern</b>		<b>Exposures</b>	
		(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(7), (9)	
		(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			(4)	
<b>Solar System Targets</b>		<b>#</b>	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>
		(2)	SATURN-MAPS	STD=SATURN				NOT ECL P PARTIAL OF SATURN- EARTH MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10"
		Comments: Description=Gloabl Saturn maps						

Proposal 15502 - Saturn 19H (37) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	F631N_2K (WFC3UVI S.im.712372 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F631N	CR-SPLIT=NO			Sequence 1-11 Non-Int in Saturn_19H (37)	15 Secs (15 Secs) [==>]	[1]
	2	F502N_2K (WFC3UVI S.im.712369 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F502N	CR-SPLIT=NO			Sequence 1-11 Non-Int in Saturn_19H (37)	23 Secs (23 Secs) [==>]	[1]
	3	F395N_2K (WFC3UVI S.im.100533 7)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F395N	CR-SPLIT=NO			Sequence 1-11 Non-Int in Saturn_19H (37)	40 Secs (40 Secs) [==>]	[1]
	4	FQ727_qua dD (WFC3UVI S.im.100539 3)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -10,10		Sequence 1-11 Non-Int in Saturn_19H (37)  Pattern 3, Exps 4-4 i n Sequence 1-11 No n-Int in Saturn_19H (37) (3)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	F763M (WFC3UVI S.im.100534 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F763M	CR-SPLIT=NO; BLADE=A			Sequence 1-11 Non-Int in Saturn_19H (37)	2 Secs (2 Secs) [==>]	[1]
	6	F467M (WFC3UVI S.im.100533 9)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F467M	CR-SPLIT=NO; BLADE=A			Sequence 1-11 Non-Int in Saturn_19H (37)	7 Secs (7 Secs) [==>]	[1]
	7	F275W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W	CR-SPLIT=NO			Sequence 1-11 Non-Int in Saturn_19H (37)  Pattern 2, Exps 7-7 i n Sequence 1-11 No n-Int in Saturn_19H (37) (2)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	F343N (WFC3UVI S.im.100533 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F343N	CR-SPLIT=NO			Sequence 1-11 Non-Int in Saturn_19H (37)	20 Secs (20 Secs) [==>]	[1]
	9	F225W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W	CR-SPLIT=NO			Sequence 1-11 Non-Int in Saturn_19H (37)  Pattern 2, Exps 9-9 i n Sequence 1-11 No n-Int in Saturn_19H (37) (2)	45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	10	F225W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W	CR-SPLIT=NO			Sequence 1-11 Non-Int in Saturn_19H (37)	45 Secs (45 Secs) [==>]	[1]
11	FQ889_qua dA	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO			Sequence 1-11 Non-Int in Saturn_19H (37)	30 Secs (30 Secs) [==>]	[1]	



Proposal 15502 - Gyro Bias Update (G9) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

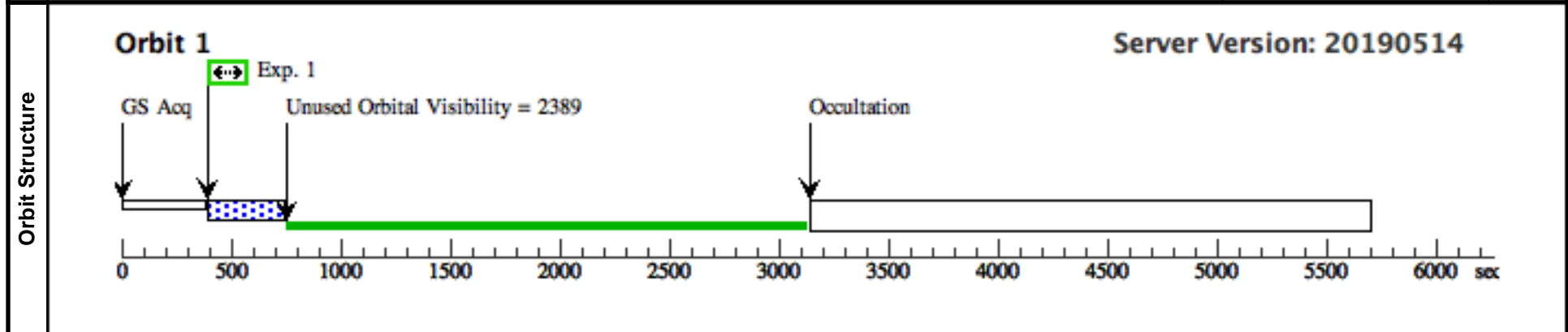
Tue Sep 03 13:01:24 GMT 2019

<b>Visit</b>	Proposal 15502, Gyro Bias Update (G9), completed					
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: S/C					
	Special Requirements: NOTRACK; AFTER 37 BY 0.9 Orbits TO 1.1 Orbits					

<b>Solar System Targets</b>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(2)	SATURN-MAPS	STD=SATURN				NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10"

*Comments: Description=Gloabl Saturn maps*

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) SATURN-MAPS	S/C, POINTING, V1						360.0 Secs (360 Secs)
									[==>]	[1]



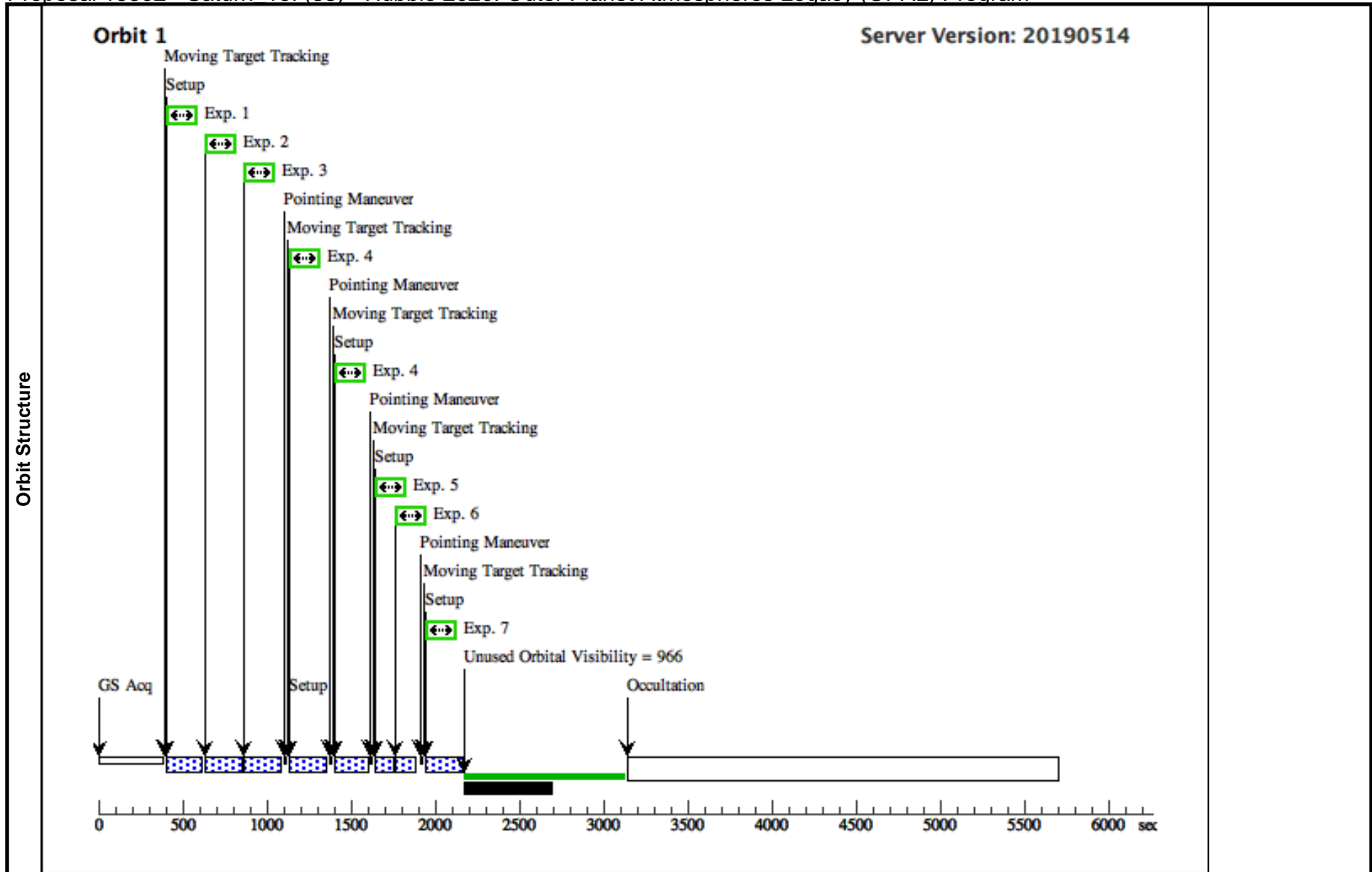
Proposal 15502 - Saturn 19I (38) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:24 GMT 2019

<b>Visit</b>	<p><b>Proposal 15502, Saturn_19I (38), completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: AFTER G9 BY 0 Orbits TO 0.5 Orbits</p>																			
	<p>(F631N_2K (38.001)) 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_2K (38.002)) 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_2K (38.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727_quadD (38.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727_quadD (38.004)) Warning (Form): POS TARG &amp; 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.</p> <p>(F763M (38.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F343N (38.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ889_quadA (38.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>																			
<b>Diagnosics</b>																				
<b>Patterns</b>	<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>(4)</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	(4)											
	#	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	(4)																	
<b>Solar System Targets</b>	<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>(2)</td> <td>SATURN-MAPS</td> <td>STD=SATURN</td> <td></td> <td></td> <td></td> <td>                     NOT ECL P PARTIAL OF SATURN- EARTH                      MAPS BY TITAN FROM EARTH,                      SEP OF SATURN-MAPS RHEA                      FROM EARTH GT 10",                      SEP OF SATURN-MAPS TITAN                      FROM EARTH GT 10"                 </td> </tr> </tbody> </table>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(2)	SATURN-MAPS	STD=SATURN				NOT ECL P PARTIAL OF SATURN- EARTH MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10"					
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center													
(2)	SATURN-MAPS	STD=SATURN				NOT ECL P PARTIAL OF SATURN- EARTH MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10"														
<p><i>Comments: Description=Gloabl Saturn maps</i></p>																				

Proposal 15502 - Saturn 19I (38) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	F631N_2K (WFC3UVI S.im.712372 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F631N	CR-SPLIT=NO			Sequence 1-7 Non-Int in Saturn_19I (38)	15 Secs (15 Secs) [==>]	[1]
	2	F502N_2K (WFC3UVI S.im.712369 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F502N	CR-SPLIT=NO			Sequence 1-7 Non-Int in Saturn_19I (38)	23 Secs (23 Secs) [==>]	[1]
	3	F395N_2K (WFC3UVI S.im.100533 7)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F395N	CR-SPLIT=NO			Sequence 1-7 Non-Int in Saturn_19I (38)	40 Secs (40 Secs) [==>]	[1]
	4	FQ727_qua dD (WFC3UVI S.im.100539 3)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -10,10		Sequence 1-7 Non-Int in Saturn_19I (38) Pattern 3, Exps 4-4 i n Sequence 1-7 Non- Int in Saturn_19I (38 ) (3)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	F763M (WFC3UVI S.im.100534 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F763M	CR-SPLIT=NO; BLADE=A			Sequence 1-7 Non-Int in Saturn_19I (38)	2 Secs (2 Secs) [==>]	[1]
	6	F343N (WFC3UVI S.im.100533 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F343N	CR-SPLIT=NO			Sequence 1-7 Non-Int in Saturn_19I (38)	20 Secs (20 Secs) [==>]	[1]
	7	FQ889_qua dA	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO			Sequence 1-7 Non-Int in Saturn_19I (38)	30 Secs (30 Secs) [==>]	[1]



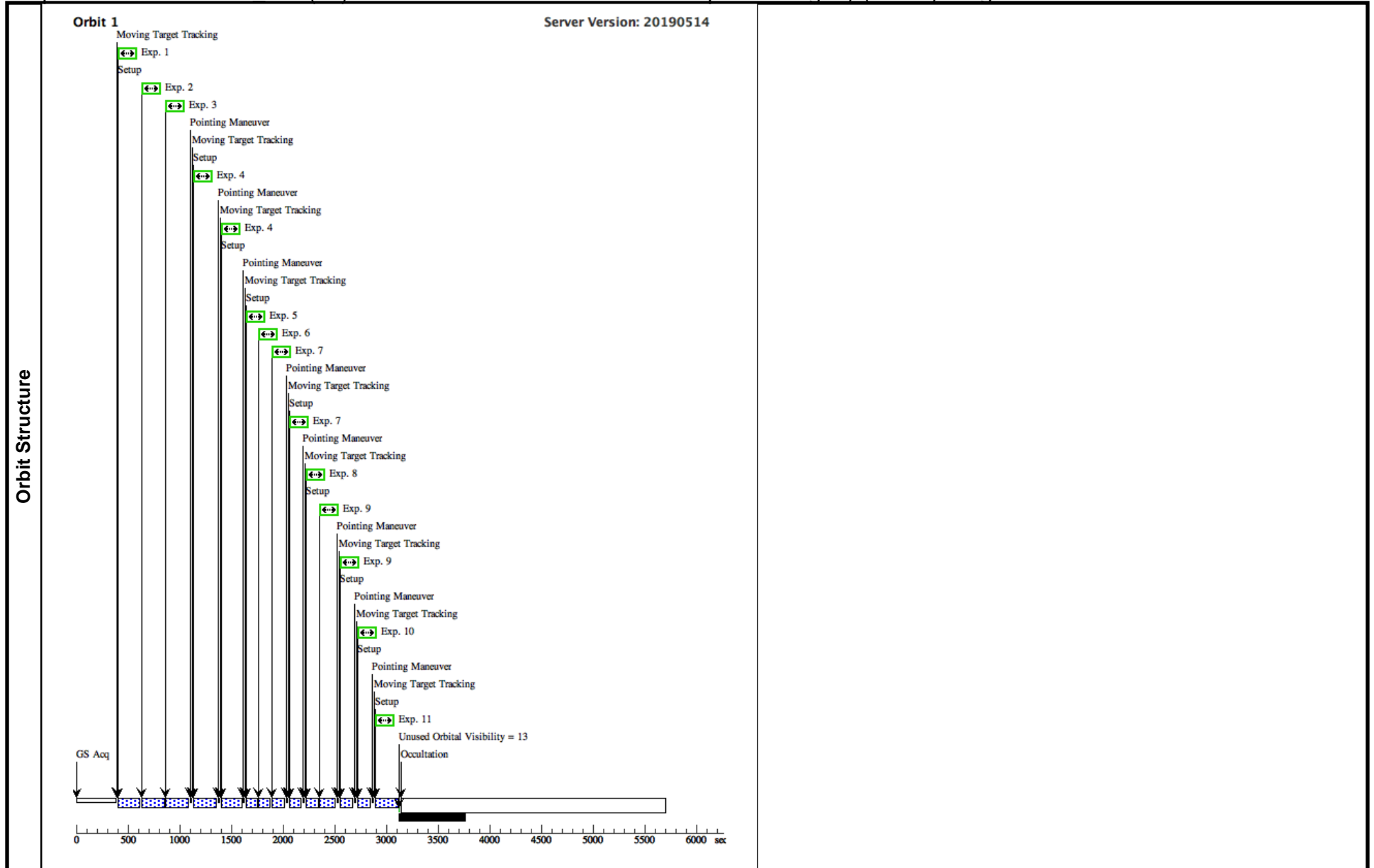
Proposal 15502 - Saturn 19J (39) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:24 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Saturn_19J (39), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 38 BY 0.5 Orbits TO 1.1 Orbits							
	<b>Diagnostics</b>	(F631N_2K (39.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N_2K (39.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N_2K (39.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (39.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (39.004)) 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. (F763M (39.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (39.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (39.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (39.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F225W (39.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F225W (39.010)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (39.011)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser						
<b>Patterns</b>		<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>			
		(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(7), (9)			
(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	(4)				
<b>Solar System Targets</b>		<b>#</b>	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>
		(2)	SATURN-MAPS	STD=SATURN				NOT ECL P PARTIAL OF SATURN- EARTH MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10"
<i>Comments: Description=Gloabl Saturn maps</i>								

Proposal 15502 - Saturn 19J (39) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F631N_2K (WFC3UVI S.im.712372 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F631N	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19J (39)	15 Secs (15 Secs) [==>]	[1]
	2	F502N_2K (WFC3UVI S.im.712369 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F502N	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19J (39)	23 Secs (23 Secs) [==>]	[1]
	3	F395N_2K (WFC3UVI S.im.100533 7)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F395N	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19J (39)	40 Secs (40 Secs) [==>]	[1]
	4	FQ727_qua dD (WFC3UVI S.im.100539 3)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -10,10	Sequence 1-11 Non-Int in Saturn_19J (39) Pattern 3, Exps 4-4 in Sequence 1-11 Non-Int in Saturn_19J (39) (3)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	F763M (WFC3UVI S.im.100534 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F763M	CR-SPLIT=NO; BLADE=A		Sequence 1-11 Non-Int in Saturn_19J (39)	2 Secs (2 Secs) [==>]	[1]
	6	F467M (WFC3UVI S.im.100533 9)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-11 Non-Int in Saturn_19J (39)	7 Secs (7 Secs) [==>]	[1]
	7	F275W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19J (39) Pattern 2, Exps 7-7 in Sequence 1-11 Non-Int in Saturn_19J (39) (2)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	F343N (WFC3UVI S.im.100533 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F343N	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19J (39)	20 Secs (20 Secs) [==>]	[1]
	9	F225W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19J (39) Pattern 2, Exps 9-9 in Sequence 1-11 Non-Int in Saturn_19J (39) (2)	45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	10	F225W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19J (39)	45 Secs (45 Secs) [==>]	[1]
11	FQ889_qua dA	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19J (39)	30 Secs (30 Secs) [==>]	[1]	



Proposal 15502 - Gyro Bias Update (GA) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

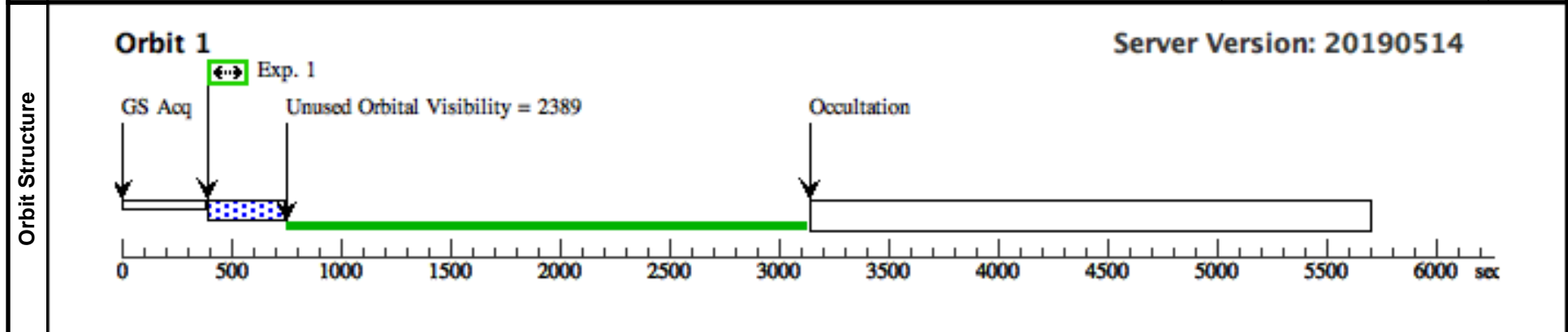
Tue Sep 03 13:01:24 GMT 2019

<b>Visit</b>	Proposal 15502, Gyro Bias Update (GA), completed					
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: S/C					
	Special Requirements: NOTRACK; AFTER 39 BY 0.9 Orbits TO 1.1 Orbits					

<b>Solar System Targets</b>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
		(2)	SATURN-MAPS	STD=SATURN			NOT ECL P PARTIAL OF SATURN-MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10"

*Comments: Description=Gloabl Saturn maps*

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1		(2) SATURN-MAPS	S/C, POINTING, V1					360.0 Secs (360 Secs)
									[==>]	[1]



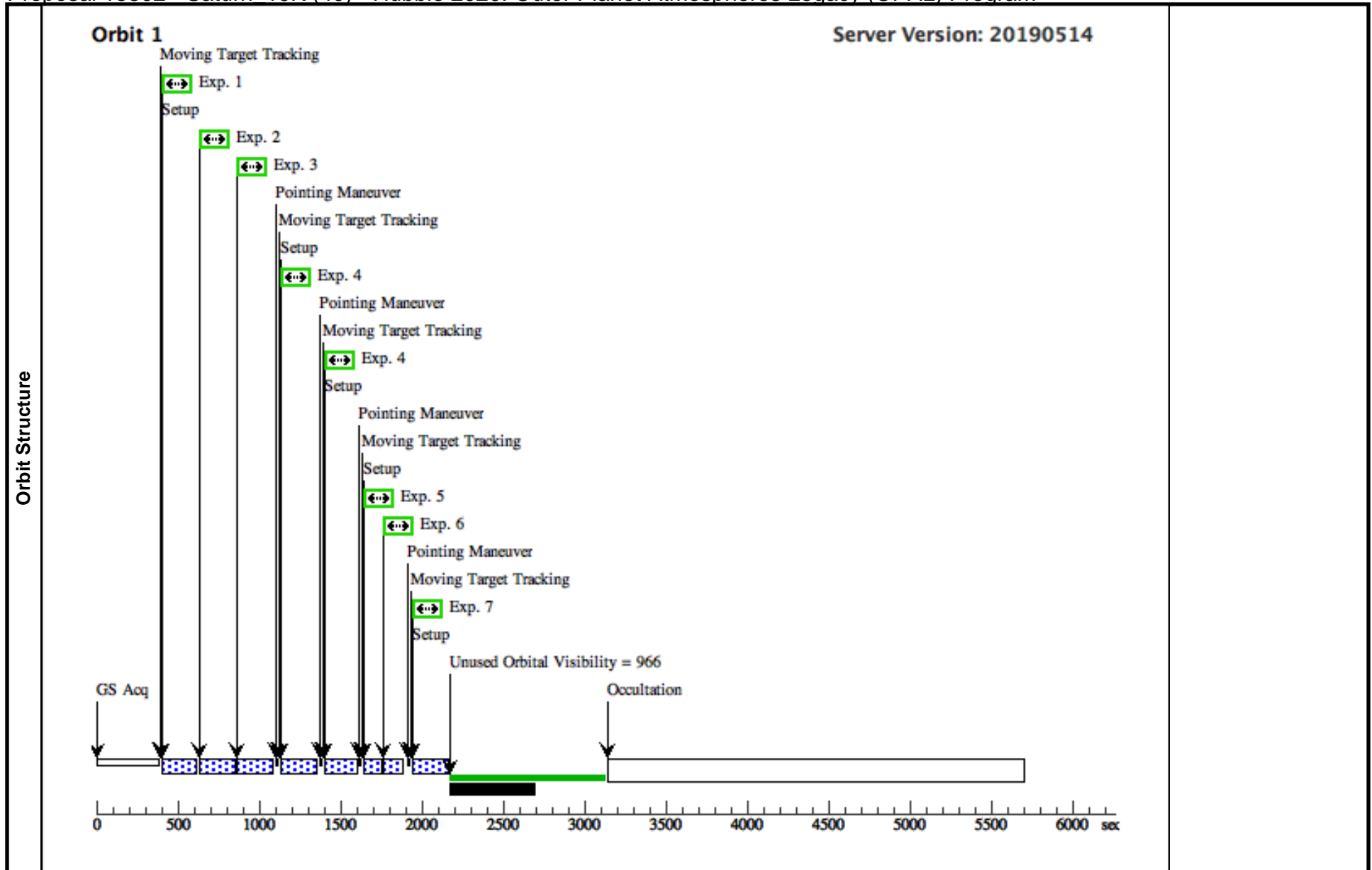
Proposal 15502 - Saturn 19K (40) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:24 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Saturn_19K (40), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER GA BY 0 Orbits TO 0.5 Orbits						
	<b>Diagnosics</b> (F631N_2K (40.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N_2K (40.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N_2K (40.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (40.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (40.004)) 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. (F763M (40.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (40.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (40.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser						
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>			
	(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	(4)			
<b>Solar System Targets</b>	<b>#</b>	<b>Name</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Window</b>	<b>Ephem Center</b>
	(2)	SATURN-MAPS	STD=SATURN				NOT ECL P PARTIAL OF SATURN- EARTH MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10"
Comments: Description=Gloabl Saturn maps							

Proposal 15502 - Saturn 19K (40) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	F631N_2K (WFC3UVI S.im.712372 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F631N	CR-SPLIT=NO			Sequence 1-7 Non-Int in Saturn_19K (40)	15 Secs (15 Secs) [==>]	[1]
	2	F502N_2K (WFC3UVI S.im.712369 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F502N	CR-SPLIT=NO			Sequence 1-7 Non-Int in Saturn_19K (40)	23 Secs (23 Secs) [==>]	[1]
	3	F395N_2K (WFC3UVI S.im.100533 7)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F395N	CR-SPLIT=NO			Sequence 1-7 Non-Int in Saturn_19K (40)	40 Secs (40 Secs) [==>]	[1]
	4	FQ727_qua dD (WFC3UVI S.im.100539 3)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -10,10		Sequence 1-7 Non-Int in Saturn_19K (40) Pattern 3, Exps 4-4 i n Sequence 1-7 Non- Int in Saturn_19K (4 0) (3)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	F763M (WFC3UVI S.im.100534 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F763M	CR-SPLIT=NO; BLADE=A			Sequence 1-7 Non-Int in Saturn_19K (40)	2 Secs (2 Secs) [==>]	[1]
	6	F343N (WFC3UVI S.im.100533 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F343N	CR-SPLIT=NO			Sequence 1-7 Non-Int in Saturn_19K (40)	20 Secs (20 Secs) [==>]	[1]
	7	FQ889_qua dA	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO			Sequence 1-7 Non-Int in Saturn_19K (40)	30 Secs (30 Secs) [==>]	[1]



Proposal 15502 - Saturn 19L (41) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Tue Sep 03 13:01:24 GMT 2019

<b>Visit</b>	<b>Proposal 15502, Saturn_19L (41), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 40 BY 0.5 Orbits TO 1.1 Orbits														
<b>Diagnostics</b>	(F631N_2K (41.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N_2K (41.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N_2K (41.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (41.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (41.004)) 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. (F763M (41.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (41.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (41.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (41.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F225W (41.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F225W (41.010)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (41.011)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser														
<b>Patterns</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Pattern</th> <th>Secondary Pattern</th> <th>Exposures</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>                     Pattern Type=WFC3-UVIS-DITHER-                      LINE                      Purpose=DITHER                      Number Of Points=2                      Point Spacing=0.145                      Line Spacing=                 </td> <td>                     Coordinate Frame=POS-TARG                      Pattern Orientation=46.84                      Angle Between Sides=                      Center Pattern=false                 </td> <td>(7), (9)</td> </tr> </tbody> </table>	#	Primary Pattern	Secondary Pattern	Exposures	(2)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(7), (9)						
#	Primary Pattern	Secondary Pattern	Exposures												
(2)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(7), (9)												
<b>Solar System Targets</b>	<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>(2)</td> <td>SATURN-MAPS</td> <td>STD=SATURN</td> <td></td> <td></td> <td>NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10"</td> <td>EARTH</td> </tr> </tbody> </table> <p><i>Comments: Description=Gloabl Saturn maps</i></p>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(2)	SATURN-MAPS	STD=SATURN			NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10"	EARTH
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center									
(2)	SATURN-MAPS	STD=SATURN			NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10"	EARTH									

Proposal 15502 - Saturn 19L (41) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F631N_2K (WFC3UVI S.im.712372 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F631N	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19L (41)	15 Secs (15 Secs) [==>]	[1]
	2	F502N_2K (WFC3UVI S.im.712369 )	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F502N	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19L (41)	23 Secs (23 Secs) [==>]	[1]
	3	F395N_2K (WFC3UVI S.im.100533 7)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F395N	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19L (41)	40 Secs (40 Secs) [==>]	[1]
	4	FQ727_qua dD (WFC3UVI S.im.100539 3)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -10,10	Sequence 1-11 Non-Int in Saturn_19L (41)	30 Secs (30 Secs) [==>]	[1]
	5	F763M (WFC3UVI S.im.100534 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F763M	CR-SPLIT=NO; BLADE=A		Sequence 1-11 Non-Int in Saturn_19L (41)	2 Secs (2 Secs) [==>]	[1]
	6	F467M (WFC3UVI S.im.100533 9)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F467M	CR-SPLIT=NO; BLADE=A		Sequence 1-11 Non-Int in Saturn_19L (41)	7 Secs (7 Secs) [==>]	[1]
	7	F275W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19L (41)  Pattern 2, Exps 7-7 in Sequence 1-11 Non-Int in Saturn_19L (41) (2)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	F343N (WFC3UVI S.im.100533 4)	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F343N	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19L (41)	20 Secs (20 Secs) [==>]	[1]
	9	F225W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19L (41)  Pattern 2, Exps 9-9 in Sequence 1-11 Non-Int in Saturn_19L (41) (2)	45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	10	F225W	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19L (41)	45 Secs (45 Secs) [==>]	[1]
11	FQ889_qua dA	(2) SATURN-MAPS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO		Sequence 1-11 Non-Int in Saturn_19L (41)	30 Secs (30 Secs) [==>]	[1]	

